

Digest of United Kingdom Energy Statistics 2013

INTERNET BOOKLET

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25 July 2013

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Aggregate energy balance 2009 **Gross calorific values**

	Cool	Manufactured	Drimary	Petroleum	Natural	Bioenergy	Drimary	Electricity	Heat	Total
	Cual	fuel(1)	oils	products	gas(2)	& waste(3)	electricity	Liectricity	sold	iolai
		1001(1)		producto	3 (_)	a(3)	0.00			
Supply										
Indigenous production	11,039	-	74,739	-	59,737	4,894r	16,481	-	-	166,890r
Imports	24,969r	131	60,125r	24,190r	39,191	1,308r	-	568	-	150,481r
Exports	-489r	-128	-49,717r	-27,759r	-11,788	-46	-	-322	-	-90,250r
Marine bunkers	-	-	-	-4,036r	-	-	-	-	-	-4,036r
Stock change (4)	-4,194r	-	+594	+365	-419	-	-	-	-	-3,655r
Primary supply	31,323r	3	85,741r	-7,241r	86,720	6,156r	16,481	246	-	219,430r
Statistical difference(5)	-112r	-12	+82r	-62r	-343r	-	-	+12r	-	-435r
Primary demand	31,435	15	85,658r	-7,179r	87,063r	6,156r	16,481	234r	-	219,865r
Transfers	-	+30	-3,088	+3,089	-30	-	-1,252	+1,252	-	+2
Transformation	-29,699	1,556	-82,571r	80,221r	-32,851	-4,032r	-15,229	30,825r	1,301	-50,479r
Electricity generation	-24,646	-772	-	-1,510r	-30,894	-3,953r	-15,229	30,825r	-	-46,178r
Major power producers	-23,775	-	-	-1,024r	-28,224	-744	-15,229	28,159	-	-40,836r
Autogenerators	-871	-772	-	-486r	-2,670	-3,209r	-	2,666r	-	-5,342r
Heat generation	-296	-51	-	-65	-1,957	-79r	-	-	1,301	-1,147r
Petroleum refineries	-	-	-82,571r	81,862r	-	-	-	-	-	-709r
Coke manufacture	-3,847	3,444	-	-	-	-	-	-	-	-402
Blast furnaces	-664	-1,301	-	-66	-	-	_	_	-	-2,031
Patent fuel manufacture	-247	236	-	-	-	-	_	-	-	-11
Other	_	-	_	_	_	_	_	_	_	_
Energy industry use	3	699	-	5,079r	5,949r	-	-	2,236	94	14,060r
Electricity generation	_	-	_	-	-	_	_	1,425	-	1,425
Oil and gas extraction	_	-	_	494r	5,255	_	_	51	_	5,799r
Petroleum refineries	_	-	_	4,585r	347r	_	_	389	94	5,415r
Coal extraction	3	_	_	-,000.	8	_	_	80	-	91
Coke manufacture	_	378	_	_	_	_	_	8	_	385
Blast furnaces		321			39			40	_	400
Patent fuel manufacture	_	321	-	_	39	_	_	40	_	400
	-	-	-	-	-	-	-	100	-	100
Pumped storage Other	-	-	-	-	301	-	-	144	-	445
	-	-	-		1,406	-		2,411	-	
Losses Final consumption	4 722	69	-	74.052=		- 2.425-	•	•	4 200	3,886
Industry	1,733 1,152	834 617		71,053r 4,916r	46,827r 9,728r	2,125r 415r	<u> </u>	27,665 8,576	1,206 763	151,442r 26,166r
Unclassified	1,132	207		2,998r	9,720 1	415r	-	0,570	103	-
	-			-				- 044	-	3,623r
Iron and steel	44	409	-	8r	433	-	-	311	-	1,205r
Non-ferrous metals	17	-	-	1r	192r	-	-	522	-	733r
Mineral products	711	-	-	270r	1,311r	-	-	603		2,896r
Chemicals	49	-	-	216r	2,065r	-	-	1,522	347	4,199r
Mechanical engineering etc	10	-	-	1r	500r	-	-	661	-	1,171r
Electrical engineering etc	3	-	-	Or	259r	-	-	555	-	818r
Vehicles							_	431	-	1,352r
Fand havenamen etc	32	-	-	277r	611r	-	-			3,641r
Food, beverages etc	33	-	-	838r	1,845r	-	-	924	1	
Textiles, leather etc	33 49	- - -	-	838r 98r	1,845r 444r	- -	-	924 259	1 -	850r
<u> </u>	33	-	- - -	838r	1,845r	- - -	-	924 259 952		
Textiles, leather etc	33 49	- - - -	- - -	838r 98r	1,845r 444r	- - - -	-	924 259	-	850r
Textiles, leather etc Paper, printing etc	33 49 71	- - - -	- - - -	838r 98r 130r	1,845r 444r 1,284r	- - - - -	-	924 259 952	-	850r 2,437r
Textiles, leather etc Paper, printing etc Other industries	33 49 71 130	- - - - -	- - - - -	838r 98r 130r 8r	1,845r 444r 1,284r 621r	- - - - - 1,038	-	924 259 952 1,700	- - 415	850r 2,437r 2,875r
Textiles, leather etc Paper, printing etc Other industries Construction	33 49 71 130 3	- - - - - -	- - - - - -	838r 98r 130r 8r 70r	1,845r 444r 1,284r 621r		-	924 259 952 1,700 136	- - 415	850r 2,437r 2,875r 368r
Textiles, leather etc Paper, printing etc Other industries Construction Transport (6)	33 49 71 130 3 13	- - - - - - -	-	838r 98r 130r 8r 70r 53,442 r	1,845r 444r 1,284r 621r		- - -	924 259 952 1,700 136 347	- - 415 - -	850r 2,437r 2,875r 368r 54,841r
Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air	33 49 71 130 3 13	- - - - - - - -	- -	838r 98r 130r 8r 70r 53,442r 12,751	1,845r 444r 1,284r 621r		- - - -	924 259 952 1,700 136 347	- - 415 - -	850r 2,437r 2,875r 368r 54,841r 12,751
Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail	33 49 71 130 3 13 -	- - - - - - - -	- - -	838r 98r 130r 8r 70r 53,442r 12,751 656r	1,845r 444r 1,284r 621r	1,038 - -	- - - -	924 259 952 1,700 136 347 -	- 415 - - -	850r 2,437r 2,875r 368r 54,841r 12,751 1,016r
Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road	33 49 71 130 3 13 -	- - - - - - - - -	- - -	838r 98r 130r 8r 70r 53,442r 12,751 656r 39,635	1,845r 444r 1,284r 621r 159r - - -	1,038 - -	- - - - -	924 259 952 1,700 136 347 - 346 2	- 415 - - - -	850r 2,437r 2,875r 368r 54,841r 12,751 1,016r 40,675
Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation	33 49 71 130 3 13 -	- - - - - - - - 217	- - - -	838r 98r 130r 8r 70r 53,442r 12,751 656r 39,635	1,845r 444r 1,284r 621r 159r - - -	1,038 - - 1,038 -	- - - - - -	924 259 952 1,700 136 347 - 346 2	- 415 - - - -	850r 2,437r 2,875r 368r 54,841r 12,751 1,016r 40,675
Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines	33 49 71 130 3 13 - 13 -	- - - - - - - - 217	- - - -	838r 98r 130r 8r 70r 53,442r 12,751 656r 39,635 399r	1,845r 444r 1,284r 621r 159r - - - - - - - - - - - - - - -	1,038 - - 1,038 - -	- - - - - - - -	924 259 952 1,700 136 347 - 346 2 - -	- 415 - - - - - - -	850r 2,437r 2,875r 368r 54,841r 12,751 1,016r 40,675 399r -
Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic	33 49 71 130 3 13 - 13 - - 567 514		- - - -	838r 98r 130r 8r 70r 53,442r 12,751 656r 39,635 399r 4,264r 3,013r	1,845r 444r 1,284r 621r 159r - - - - - - - - - - - - - - - - - - -	1,038 - - 1,038 - - - 671r 446r	- - - - - - - - -	924 259 952 1,700 136 347 - 346 2 - - - 18,742 10,193	- 415 - - - - - - - - - - - - - - - - - - -	850r 2,437r 2,875r 368r 54,841r 12,751 1,016r 40,675 399r - 61,412r 43,025r
Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	33 49 71 130 3 13 - 13 - - - 567 514		-	838r 98r 130r 8r 70r 53,442r 12,751 656r 39,635 399r 4,264r 3,013r 373r	1,845r 444r 1,284r 621r 159r - - - - - - - - - - - - - - - - - - -	1,038 - - 1,038 - - - 671r 446r 84r	- - - - - - - - - -	924 259 952 1,700 136 347 - 346 2 - - - 18,742 10,193 1,672	- 415 - - - - - - - - - 444	850r 2,437r 2,875r 368r 54,841r 12,751 1,016r 40,675 399r - 61,412r 43,025r 6,417r
Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial	33 49 71 130 3 13 - 13 - - 567 514			838r 98r 130r 8r 70r 53,442r 12,751 656r 39,635 399r 4,264r 3,013r 373r 362r	1,845r 444r 1,284r 621r 159r - - - - - - - - - - - - - - - - - - -	1,038 - - 1,038 - - - 671r 446r 84r 12r	- - - - - - - - - -	924 259 952 1,700 136 347 - 346 2 - - 18,742 10,193 1,672 6,551	- 415 - - - - - - - - - - - - - - - 32 - 38 - 38	850r 2,437r 2,875r 368r 54,841r 12,751 1,016r 40,675 399r - 61,412r 43,025r 6,417r 9,960r
Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	33 49 71 130 3 13 - 13 - - 567 514 17 35		-	838r 98r 130r 8r 70r 53,442r 12,751 656r 39,635 399r 4,264r 3,013r 373r	1,845r 444r 1,284r 621r 159r - - - - - - - - - - - - - - - - - - -	1,038 - - 1,038 - - - 671r 446r 84r	- - - - - - - - - -	924 259 952 1,700 136 347 - 346 2 - - - 18,742 10,193 1,672	- 415 - - - - - - - - - - - - - - 3 - - - -	850r 2,437r 2,875r 368r 54,841r 12,751 1,016r 40,675 399r - 61,412r 43,025r 6,417r

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.
(3) Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).

⁽⁵⁾ Primary supply minus primary demand.(6) See paragraphs 5.12 regarding electricity use in transport and 6.28 regarding renewables use in transport.

Aggregate energy balance 2008 Gross calorific values

	Coal	Manufactured	Primary	Petroleum	Natural	Bioenergy &	Primary	Electricity	Heat	Total
		fuel(1)	oils	products	gas(2)	waste(3)	electricity		sold	
Supply										
Indigenous production	11,305	_	78,580	_	69,681	4,463r	12,964	_	_	176,991r
Imports	28,748r	500	65,895r	25,888r	35,000	975	12,304	1,057		158,065r
Exports	-465r	-142	-52,984	-31,328r	-10,548	913	_	-109		-95,576r
•	-4001	-142	-52,964		-10,546	-	-	-109	-	
Marine bunkers	1.040=		. 250	-4,256r	205	-	-	-	-	-4,256r
Stock change (4)	-1,949r	+162	+259	+54r	-265	- E 427:	40.004	- 040		-1,739r
Primary supply	37,640r	520	91,750r	-9,642r	93,868	5,437r	12,964	948	-	233,485r
Statistical difference (5)	+150r	-7	+175r	-82r	+383r			+20r	-	+640r
Primary demand	37,490	527	91,576r	-9,560r	93,485r	5,437r	12,964	928r	-	232,845r
Transfers	-	-126	-3,098	+3,541r	-6	-	-1,055	+1,055	-	+311r
Transformation	-35,641	1,671	-88,477r	86,178r	-34,586	-3,570r	-11,909	32,031r		-52,767r
Electricity generation	-29,943	-858	-	-1,585r	-32,400	-3,521r	-11,909	32,031r	-	-48,186r
Major power producers	-28,972	-	-	-1,109r	-29,618	-803	-11,909	29,367	-	-43,044r
Autogenerators	-971	-858	-	-476r	-2,782	-2,718r	-	2,664r	-	-5,142r
Heat generation	-314	-51	-	-66	-2,186	-49r	-	-	1,537	-1,129r
Petroleum refineries	-	-	-88,477r	88,045r	-	-	-	-	-	-432r
Coke manufacture	-4,280	4,064	-	-	-	-	-	-	-	-217
Blast furnaces	-852	-1,718	-	-216r	-	-	-	-	-	-2,787r
Patent fuel manufacture	-251	235	-	-	-	-	-	-	-	-16
Other	-	-	-	-	_	-	-	-	-	-
Energy industry use	4	849	-	5,544r	6,215		_	2,227r	72	14,911r
Electricity generation	_		_	_	_	_	_	1,405r	_	1,405r
Oil and gas extraction	_	_	_	504r	5,270	_	_	51	_	5,825r
Petroleum refineries	_	_	_	5,040r	427	_	_	374	72	5,913r
Coal extraction	4	_	_	-	8	_	_	84		96
Coke manufacture	-	429			U			7	_	436
	-	429	-	-	62	-	-	39	-	
Blast furnaces	-	420	-	-		-	-		-	521
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-		-	-	110	-	110
Other	-	-	-	-	447	-	-	156	-	604
Losses	-	236	-	-	1,171	-	-	2,395r	-	3,802r
Final consumption	1,845	986	•	74,614r	51,506r	1,867r	-	29,391	1,465	161,676r
Industry	1,296	748	-	5,321r	11,516r	414r	-	9,815	1,021	30,132r
Unclassified	-	239	-	3,085r	3	414r	-	- -	-	3,742r
Iron and steel	49	509	-	7r	595	-	-	400	-	1,561r
Non-ferrous metals	20	-	-	5r	252r	-	-	636	-	912r
Mineral products	759	-	-	724r	1,607r	-	-	682	-	3,773r
Chemicals	65	-	-	247r	2,426r	-	-	1,744	592	5,075r
Mechanical engineering etc	10	-	-	1r	673r	-	-	741	4	1,428r
Electrical engineering etc	4	-	-	Or	320r	-	-	636	-	960r
Vehicles	35	-	-	176r	736r	-	-	500	-	1,447r
Food, beverages etc	28	-	-	690r	1,978r	-	-	1,054	10	3,760r
Textiles, leather etc	53	-	-	73r	517r	-	-	292	-	936r
Paper, printing etc	105	-	-	187r	1,436r	-	-	1,106	1	2,836r
Other industries	142	_	_	15r	775r	_	_	1,868	413	3,214r
	27			110r	197r	_		156	-	490r
Construction Transport (6)	14	-	-	55,602r	1971		-	339	-	
Transport (6)		-	-	,	-	845	-	339	-	56,799r
Air	-	-	-	13,426r	-	-	-	-	-	13,426r
Rail	14	-	-	658r	-	- 0.45	-	337	-	1,009r
Road	-	-	-	41,098	-	845	-	2	-	41,944
National navigation	-	-	-	421r	-	-	-	-	-	421r
Pipelines		-	-	-		-	-		-	
Other	536	238	-	4,445r	39,285r		-	19,237	445	64,793r
Domestic	515	238	-	3,033r	30,916	381r	-	10,301	52	45,436r
Public administration	9	-	-	468r	3,926r		-	1,750	387	6,615r
Commercial	7	-	-	402r	3,306r	13	-	6,836	6	10,569r
Agriculture	3	-	-	300r	186	140r	-	350	-	979r
Miscellaneous	1	-	_	242r	950r		-	-	-	1,193r
				9,247r	706r		-	-		9,952r

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.
(2) Includes colliery methane.
(3) Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.12 regarding electricity use in transport and 6.28 regarding renewables use in transport.

Aggregate energy balance 2007 Gross calorific values

	Coal	Manufactured	Primary	Petroleum	Natural	Bioenergy	•	Electricity	Heat	Total
		fuel(1)	oils	products	gas(2)	& waste(3)	electricity		sold	
Supply										
Indigenous production	10,697	-	83,912	-	72,125	4,310	14,927	-	-	185,970
Imports	28,195	733	62,611	27,532	29,065	454	-	741	-	149,331
Exports	-419	-170	-55,754	-32,640	-10,590	-110	-	-292	-	-99,975
Marine bunkers	-	-	-	-2,506	-	-	-	-	-	-2,506
Stock change (4)	+1,947	-22	856	+1,180	+471	-	-	-	-	+4,433
Primary supply	40,420	541	91,625	-6,434	91,071	4,654	14,927	448	-	237,252
Statistical difference(5)	+12	-13	+3	-203	+16	-	-	-34	-	-219
Primary demand	40,408	554	91,622	-6,231	91,055	4,654	14,927	482	-	237,471
Transfers	-	-126	-2,670	+2,693	-7	-	-891	+891	-	-110
Transformation	-38,617	1,703	-88,952	87,229	-32,633	-3,419	-14,036	32,898	1,406	-54,421
Electricity generation	-32,904	-961	-	-1,161	-30,600	-3,419	-14,036	32,898	-	-50,182
Major power producers	-31,975	-	-	-704	-27,501	-675	-14,036	30,073	-	-44,818
Autogenerators	-929	-961	-	-457	-3,099	-2,744	-	2,825	-	-5,364
Heat generation	-304	-51	_	-65	-2,033	-	-	-	1,406	-1,047
Petroleum refineries	-	-	-88,952	88,664	´ -	-	-	-	· -	-288
Coke manufacture	-4,319	4,171	-	-	-	-	-	-	-	-147
Blast furnaces	-904	-1,633	_	-210	_	-	_	_	-	-2,747
Patent fuel manufacture	-186	176	_		_	-	_	_	-	-9
Other	-	-	_	_	-	-	_	_	_	_
Energy industry use	3	881	-	5,353	6,537	-		2,468	68	15,310
Electricity generation	-	-	_	-	-	_	_	1,521	-	1,521
Oil and gas extraction	_	_	_	437	5,523	_	_	48	_	6,008
Petroleum refineries	_	_	_	4,916	448	_	_	484	68	5,916
Coal extraction	3	_	_	4,510	8	_	_	85	-	96
Coke manufacture	9	424			-			8	_	432
	-	458	-	-		-	-	41	-	
Blast furnaces	-	430	-	-	62	-	-			561
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	407	-	-	104	-	104
Other	-	-	-	-	497	-	-	176	-	673
Losses		216	-		1,038		-	2,427		3,682
Final consumption	1,788	1,032	-	78,338	50,840	1,235	-	29,377	1,338	163,949
Industry	1,268	839	-	6,077	11,466	276	-	9,699	896	30,522
Unclassified	-	239	-	2,647	3	276	-	-	-	3,316
Iron and steel	54	600	-	67	630	-	-	425	-	1,776
Non-ferrous metals	22	-	-	48	246	-	-	635	-	952
Mineral products	759	-	-	238	1,451	-	-	672	-	3,120
Chemicals	76	-	-	192	2,592	-	-	1,737	480	5,075
Mechanical engineering etc	7	-	-	107	659	-	-	727	3	1,503
Electrical engineering etc	4	-	-	35	321	-	-	627	-	987
Vehicles	35	-	-	122	734	-	-	492	-	1,383
Food, beverages etc	25	-	-	282	1,975	-	-	1,039	2	3,322
Textiles, leather etc	52	-	-	118	523	-	-	288	-	981
Paper, printing etc	101	-	-	66	1,334	-	-	1,096	1	2,597
Other industries	134	-	-	1,988	794	-	-	1,808	411	5,134
Construction	-	_	_	168	204	-	-	155	-	527
Transport (6)	14	-	-	59,044	_	362	-	341	-	59,760
Air	-	-	-	13,906	-	-	-	-	-	13,906
Rail	14	-	-	642	-	-	-	339	-	995
Road	-	_	-	42,884	-	362	-	2	-	43,248
National navigation	-	-	-	1,612	-	-	-	-	-	1,612
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	506	193	-	4,368	38,495	597	-	19,338	442	63,939
Domestic	487	193	-	2,876	30,341	400	-	10,583	52	44,931
				485	3,650	89	-	1,727	383	6,343
Public administration	10	-	-	463	0,000			,		
Public administration Commercial	10 4	-	-	406	2,846	19	-	6,679	7	9,962
		- -					-		7 -	9,962 906
Commercial	4	- - -	-	406	2,846	19		6,679		

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.
(2) Includes colliery methane.
(3) Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.12 regarding electricity use in transport and 6.28 regarding renewables use in transport.

Aggregate energy balance 2006 **Gross calorific values**

	Coal	Manufactured	Primary	Petroleum	Natural	Bioenergy &	Primary	Electricity	Heat	Tota
	Coai	fuel(1)	oils	products	gas(2)	waste (3)	electricity	Liectricity	sold	iotai
Supply										
Indigenous production	11,418		83,958	_	80.012	3,969	17,889	_	_	197,246
	,	- 695	64,872		/ -	550	17,009	884	-	
Imports	32,668			29,354	20,983		-		-	150,006
Exports	-342	-120	-54,875	-31,370	-10,369	-97	-	-238	-	-97,410
Marine bunkers	-	-	-	-2,479	-	-	-	-	-	-2,479
Stock change(4)	-808	-153	-391	-934	-553	- 4 400	47.000	- 0.40	-	-2,839
Primary supply	42,936	422	93,564	-5,429	90,072	4,423	17,889	646	-	244,524
Statistical difference(5)	-151	-5	-127	+125	+13	-	-	+9	-	-135
Primary demand	43,087	427	93,691	-5,554	90,060	4,423	17,889	637	-	244,659
Transfers	-	-109	-2,835	+2,873	-5	-	-759	+759	-	-76
Transformation	-41,457	1,796	-90,856	88,834	-28,670	-3,471	-17,130	33,070	1,305	-56,580
Electricity generation	-35,846	-967	-	-1,316	-26,776	-3,471	-17,130	33,070	-	-52,437
Major power producers	-34,944	-	-	-843	-23,917	-780	-17,130	30,412	-	-47,201
Autogenerators	-902	-967	-	-473	-2,860	-2,691	-	2,658	-	-5,236
Heat generation	-286	-51	-	-65	-1,894	-	-	-	1,305	-991
Petroleum refineries	-	-	-90,856	90,453	-	-	-	-	-	-403
Coke manufacture	-4,315	4,271	-	-	-	-	-	-	-	-44
Blast furnaces	-816	-1,659	-	-238	-	-	-	-	-	-2,713
Patent fuel manufacture	-194	202	-	-	-	-	-	-	-	8
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	3	871	-	5,627	7,039	-	_	2,425	60	16,025
Electricity generation	-	-	-	-		-	-	1,591	-	1,591
Oil and gas extraction	-	_	-	465	5,955	-	-	47	-	6,467
Petroleum refineries	-	_	-	5,162	444	-	-	401	60	6,067
Coal extraction	3	_	_	-,	10	_	_	89	-	101
Coke manufacture	-	414		_	-	_	_	8	_	423
Blast furnaces	_	457	_		53	_	_	43	_	552
Patent fuel manufacture	_	401	_	_	-	_	_	40	_	-
	-	-	-	-	_	-	-	92	-	
Pumped storage	-	-	-	-	_	-	-		-	92
Other	-	-	-	-	578	-	-	155	-	732
Losses		177			1,033	-		2,357		3,567
Final consumption	1,627	1,065	-	80,526	53,313	952		29,684	1,245	168,412
Industry	1,164	849	-	6,079	12,428	213	-	9,879	809	31,422
Unclassified	-	231	-	2,791	4	213	-	-	-	3,240
Iron and steel	1	618	-	20	721	-	-	504	-	1,863
Non-ferrous metals	37	-	-	53	267	-	-	647	-	1,004
Mineral products	691	-	-	199	1,531	-	-	677	-	3,097
Chemicals	84	-	-	187	2,952	-	-	1,753	371	5,347
Mechanical engineering etc	9	-	-	106	703	-	-	730	2	1,550
Electrical engineering etc	4	-	-	84	337	-	-	631	-	1,057
Vehicles	37	-	-	123	814	-	-	494	-	1,469
Food, beverages etc	17	-	-	281	2,039	-	-	1,042	1	3,380
Textiles, leather etc	49	-	-	130	571	_	-	289	-	1,039
Paper, printing etc	99	_	_	59	1,420	_	_	1,110	22	2,710
Other industries	135	_	_	1,874	848	_	_	1,844	414	5,115
Construction	100			173	220		_	158	-	551
Transport (6)	- 44	-	-		220	188	-	344	-	
• ' '	14	-	-	58,944	-	100	-	344	-	59,489
Air	-	-	-	13,999	-	-	-	-	-	13,999
Rail	14	-	-	627	-	-	-	342	-	984
Road	-	-	-	42,513	-	188	-	2	-	42,702
National navigation	-	-	-	1,805	-	-	-	-	-	1,805
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	450	216	-	4,770	40,205	550	-	19,461	436	66,088
Domestic	426	216	-	3,249	31,550	358	-	10,723	52	46,574
Public administration	13	-	-	487	3,938	83	-	1,721	376	6,618
Commercial	4	-	-	392	2,947	19	-	6,673	8	10,043
Agriculture	3	-	-	305	173	90	-	345	-	915
Agriculture										
Miscellaneous	3	-	-	338	1,596	-	-	-	-	1,938

Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.
 Includes colliery methane.
 Includes geothermal and solar heat.

⁽⁴⁾ Stock fall (+), stock rise (-).

⁽⁵⁾ Primary supply minus primary demand.
(6) See paragraphs 5.12 regarding electricity use in transport and 6.28 regarding renewables use in transport

Aggregate energy balance 2005 Gross calorific values

	Coal	Manufactured	Primary	Petroleum	Natural	Bioenergy &	Primary	Electricity	Heat	Total
		fuel(1)	oils	products	gas(2)	waste(3)	•	,	sold	
Supply										
Indigenous production	12,714	_	92,883	_	88,219	3,681	19,044	_	_	216,541
Imports	28,534	623	64,255	24,536	14,904	487	-	960	_	134,299
Exports	-420	-89	-59,177	-32,293	-8,270	-	_	-244	_	-100,494
Marine bunkers	0	-	-	-2,174		_	_		_	-2,174
Stock change (4)	-1,406	-97	-416	+2,090	+114	_	-	_	_	+285
Primary supply	39,422	437	97,545	-7,841	94,966	4,168	19,044	715	-	248,457
Statistical difference (5)	+23	-7	-121	+469	+10			+20	-	+394
Primary demand	39,399	443	97,665	-8,310	94,957	4,168	19,044	696	-	248,063
Transfers	-	-113	-3,643	+3,648	-4	-	-674	+674	-	-112
Transformation	-37,700	1,737	-94,022	92,083	-30,451	-3,371	-18,370	33,327	1,366	-55,402
Electricity generation	-32,408	-990		-1,347	-28,517	-3,371	-18,370	33,327		-51,677
Major power producers	-31,528	-	-	-827	-25,421	-810	-18,370	30,564	-	-46,392
Autogenerators	-880	-990	-	-521	-3,097	-2,561	-	2,764	-	-5,285
Heat generation	-286	-51	-	-65	-1,934	-	-	-	1,366	-971
Petroleum refineries	-	-	-94,022	93,778		-	-	-	-	-245
Coke manufacture	-4,053	4,024	-	-	-	-	-	-	-	-29
Blast furnaces	-756	-1,446	-	-281	-	-	-	-	-	-2,484
Patent fuel manufacture	-197	200	-	-	-	-	-	-	-	3
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	4	820	-	6,486	7,495	-	-	2,337	98	17,239
Electricity generation	-	-	-	-	-	-	-	1,537	26	1,563
Oil and gas extraction	-	-	-	515	6,309	-	-	43	-	6,867
Petroleum refineries	-	-	-	5,971	444	-	-	383	71	6,870
Coal extraction	4	-	-	-	10	-	-	92	-	106
Coke manufacture	-	396	-	-	-	-	-	8	-	404
Blast furnaces	-	424	-	-	81	-	-	44	-	549
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	67	-	67
Other	-	-	-	-	651	-	-	162	-	813
Losses	-	211	-	-	943	-	-	2,380	-	3,533
Final consumption	1,695	1,035	-	80,936	56,064	798	-	29,981	1,268	171,776
Industry	1,180	812	-	6,260	13,022	201	-	9,976	831	32,281
Unclassified	-	226	-	2,675	5	201	-	-	-	3,107
Iron and steel	-	586	-	17	727	-	-	432	-	1,761
Non-ferrous metals	24	-	-	54	272	_	-	661	-	1,011
Mineral products	739	_	-	219	1,574	_	_	686	-	3,218
Chemicals	84								-	5,597
Mechanical engineering etc	04	-	-	203	3.102	_	_			
Medianical engineening etc	10	-	-	203 118	3,102 737	-	-	1,816 742	392 3	
		-			,	- -	- - -	1,816	392	1,610 1,033
Electrical engineering etc Vehicles	10	- - -	-	118	737	- - -	- - -	1,816 742	392	1,610 1,033
Electrical engineering etc Vehicles	10	-	-	118 36	737 355	- - - -	- - - -	1,816 742 638	392 3 -	1,610
Electrical engineering etc	10 3 38	- - - -	-	118 36 140	737 355 856	- - - -	- - - -	1,816 742 638 502	392 3 - -	1,610 1,033 1,537
Electrical engineering etc Vehicles Food, beverages etc	10 3 38 19	- - - -	-	118 36 140 327	737 355 856 2,143	- - - - -	- - - - -	1,816 742 638 502 1,055	392 3 - - 1	1,610 1,033 1,537 3,544
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc	10 3 38 19 50	- - - - -	-	118 36 140 327 111 91	737 355 856 2,143 605 1,521	- - - - - -	-	1,816 742 638 502 1,055 292 1,137	392 3 - - 1	1,610 1,033 1,537 3,544 1,057 2,878
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries	10 3 38 19 50 98	- - - - - -	-	118 36 140 327 111 91 2,081	737 355 856 2,143 605 1,521 894	- - - - - -	-	1,816 742 638 502 1,055 292 1,137 1,848	392 3 - - 1 - 31	1,610 1,033 1,537 3,544 1,057 2,878 5,345
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction	10 3 38 19 50 98 116	- - - - - -	-	118 36 140 327 111 91 2,081 189	737 355 856 2,143 605 1,521	- - - - - - - - 74	-	1,816 742 638 502 1,055 292 1,137 1,848 166	392 3 - - 1 - 31	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6)	10 3 38 19 50 98	- - - - - - -	-	118 36 140 327 111 91 2,081 189 58,357	737 355 856 2,143 605 1,521 894	- - - - - - - 74	-	1,816 742 638 502 1,055 292 1,137 1,848	392 3 - - 1 - 31	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585 58,783
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air	10 3 38 19 50 98 116 - 3	- - - - - - -	-	118 36 140 327 111 91 2,081 189 58,357 13,856	737 355 856 2,143 605 1,521 894	- - - - - - - 74	-	1,816 742 638 502 1,055 292 1,137 1,848 166 349	392 3 - - 1 - 31	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585 58,783 13,856
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail	10 3 38 19 50 98 116	- - - - - - - -	-	118 36 140 327 111 91 2,081 189 58,357 13,856 629	737 355 856 2,143 605 1,521 894	-	-	1,816 742 638 502 1,055 292 1,137 1,848 166 349	392 3 - - 1 - 31	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585 58,783 13,856 980
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road	10 3 38 19 50 98 116 - 3	- - - - - - - - - -	-	118 36 140 327 111 91 2,081 189 58,357 13,856 629 42,507	737 355 856 2,143 605 1,521 894	-	-	1,816 742 638 502 1,055 292 1,137 1,848 166 349	392 3 - - 1 - 31	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585 58,783 13,856 980 42,582
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation	10 3 38 19 50 98 116 - 3	- - - - - - - - - - -	-	118 36 140 327 111 91 2,081 189 58,357 13,856 629	737 355 856 2,143 605 1,521 894	-	-	1,816 742 638 502 1,055 292 1,137 1,848 166 349	392 3 - - 1 - 31	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585 58,783 13,856 980
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines	10 3 38 19 50 98 116 - 3 - 3	-	-	118 36 140 327 111 91 2,081 189 58,357 13,856 629 42,507 1,365	737 355 856 2,143 605 1,521 894 230	- - 74 - -		1,816 742 638 502 1,055 292 1,137 1,848 166 349 - 347 2	392 3 - 1 - 31 405 - - - -	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585 58,783 13,856 980 42,582 1,365
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other	10 3 38 19 50 98 116 - 3 - 3	- - - - - - - - - - 223	-	118 36 140 327 111 91 2,081 189 58,357 13,856 629 42,507 1,365	737 355 856 2,143 605 1,521 894 230 - - - - - - - - -	- - 74 - - 523		1,816 742 638 502 1,055 292 1,137 1,848 166 349 - 347 2	392 3 - 1 - 31 405 - - - - - - - 437	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585 58,783 13,856 980 42,582 1,365
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic	10 3 38 19 50 98 116 - 3 - 3 - - - 5 5 12 474	- - - - - - - - - - 223	-	118 36 140 327 111 91 2,081 189 58,357 13,856 629 42,507 1,365 - 4,856 3,092	737 355 856 2,143 605 1,521 894 230 - - - - - - - - - - - - - - - - - - -	- 74 - - 523 318		1,816 742 638 502 1,055 292 1,137 1,848 166 349 - 347 2 - 19,655 10,809	392 3 - 1 - 31 405 - - - - - - - - - - - - - - - - - - -	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585 58,783 13,856 980 42,582 1,365
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	10 3 38 19 50 98 116 - 3 - - 5 5 12 474 27		-	118 36 140 327 111 91 2,081 189 58,357 13,856 629 42,507 1,365 - 4,856 3,092 539	737 355 856 2,143 605 1,521 894 230 - - - - - - - - - - - - - - - - - - -	- 74 - - 523 318 105		1,816 742 638 502 1,055 292 1,137 1,848 166 349 - 347 2 - 19,655 10,809 1,722	392 3 - 1 - 31 405 - - - - - - - - - - - - -	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585 58,783 13,856 980 42,582 1,365 - 68,568 47,804 7,095
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial	10 3 38 19 50 98 116 - 3 - 5 5 12 474 27 4		-	118 36 140 327 111 91 2,081 189 58,357 13,856 629 42,507 1,365 - 4,856 3,092 539 386	737 355 856 2,143 605 1,521 894 230 - - - - - - - - - - - - - - - - - - -	- 74 - - 523 318 105 20		1,816 742 638 502 1,055 292 1,137 1,848 166 349 - 347 2 - 19,655 10,809 1,722 6,780	392 3 - 1 - 31 405 - - - - - - - - - - - - - - - - - - -	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585 58,783 13,856 980 42,582 1,365 - 68,568 47,804 7,095 10,484
Electrical engineering etc Vehicles Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	10 3 38 19 50 98 116 - 3 - - 5 5 12 474 27		-	118 36 140 327 111 91 2,081 189 58,357 13,856 629 42,507 1,365 - 4,856 3,092 539	737 355 856 2,143 605 1,521 894 230 - - - - - - - - - - - - - - - - - - -	- 74 - - 523 318 105		1,816 742 638 502 1,055 292 1,137 1,848 166 349 - 347 2 - 19,655 10,809 1,722	392 3 - 1 - 31 405 - - - - - - - - - - - - -	1,610 1,033 1,537 3,544 1,057 2,878 5,345 585 58,783 13,856 980 42,582 1,365 - 68,568 47,804 7,095

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.
(2) Includes colliery methane.

⁽²⁾ Includes geothermal and solar heat.
(3) Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.12 regarding electricity use in transport and 6.28 regarding renewables use in transport.

Aggregate energy balance 2004 **Gross calorific values**

	O '	Manuel - to - 1	D.::	Define	N-4	D:	D	Fla -4-1-14	111	Ŧ., ·
	Coal	Manufactured fuel (1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)		Electricity	Heat sold	Total
Supply										
Indigenous production	15,594	_	104,547	_	96,411	3,080	18,746	_	_	238,378
Imports	23,458	724	68,214	20,180	11,439	402	-	841	_	125,258
Exports	-448	-124	-70,513	-33,108	-9,812	-	_	-197	_	-114,202
Marine bunkers	-		-	-2,221		_	_	-	_	-2,221
Stock change (4)	-56	-83	-149	-327	-536	_	_	_	_	-1,152
Primary supply	38,548	517	102,099	-15,476	97,502	3,482	18,746	644		246,062
Statistical difference (5)	+1	-52	-176	-13, 470 -51	+60	3,402	10,740	+211		-6
Primary demand	38,547	568	102,275	-15,426	97,441	3,482	18,746	433		246,068
	30,347					•	·			•
Transfers	-	-118	-4,196	+4,178	-3	-	-583	+583	-	-139
Transformation	-36,554	1,706	-98,080	97,272	-31,184	-2,767	-18,163	33,061	1,273	-53,437
Electricity generation	-31,368	-921	-	-645	-29,306	-2,767	-18,163	33,061	-	-50,109
Major power producers	-30,471	-	-	-153	-26,182	-540	-18,163	30,246	-	-45,263
Autogenerators	-897	-921	-	-492	-3,124	-2,227	-	2,815	-	-4,846
Heat generation	-297	-51	-	-72	-1,878	-	-	-	1,273	-1,024
Petroleum refineries	-	-	-98,080	98,297	-	-	-	-	-	217
Coke manufacture	-3,997	3,978	-	-	-	-	-	-	-	-18
Blast furnaces	-652	-1,541	-	-309	-	-	-	-	-	-2,502
Patent fuel manufacture	-241	241	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	6	849	-	5,810	7,607	-	-	2,291	16	16,579
Electricity generation	-	-	-	-	-	-	-	1,464	2	1,466
Oil and gas extraction	-	-	-	-	6,619	-	-	48	-	6,667
Petroleum refineries	_	-	-	5,809	264	-	_	402	14	6,489
Coal extraction	6	-	-	1	13	-	-	88	-	108
Coke manufacture	_	397	_	_	_	_	_	8	_	405
Blast furnaces	_	449	_	_	63	_	_	40	_	552
Patent fuel manufacture	_	3	_	_	-	_	_	-	_	3
Pumped storage	_	-	_	_	_	_	_	73	_	73
Other	_	_	_	_	648	_	_	167	-	815
Losses	_	201	-	_	706	_	_	2,642	-	3,549
Final consumption	1,988	1,106	-	80,214	57,942	715	-	29,144	1,258	172,365
Industry	1,235	839		6,918	13,238	265		9,584	832	32,912
Unclassified	1,233	257		2,632	6	265		3,304		3,160
				2.032		203	_	_		1,918
	-			•				405	-	1 9 1 8
Iron and steel	- -	582	-	35	835	-	-	465	-	-
Iron and steel Non-ferrous metals	7		-	35 53	835 275	-	-	642	-	977
Iron and steel Non-ferrous metals Mineral products	7 751		- - -	35 53 201	835 275 1,152	-	-	642 648		977 2,752
Iron and steel Non-ferrous metals Mineral products Chemicals	7 751 94		- - -	35 53 201 203	835 275 1,152 3,611	- - -	- - -	642 648 1,714	- - - 394	977 2,752 6,015
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc.	7 751 94 10		-	35 53 201 203 117	835 275 1,152 3,611 740	- - - -	- - - -	642 648 1,714 723	- - - 394 2	977 2,752 6,015 1,593
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc.	7 751 94 10 3		-	35 53 201 203 117 38	835 275 1,152 3,611 740 358	- - - - -	- - - -	642 648 1,714 723 568	- - - 394	977 2,752 6,015 1,593 967
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles	7 751 94 10 3 56		-	35 53 201 203 117 38 109	835 275 1,152 3,611 740 358 879	- - - - -	- - - - -	642 648 1,714 723 568 480	- - - 394 2 -	977 2,752 6,015 1,593 967 1,525
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc.	7 751 94 10 3		-	35 53 201 203 117 38	835 275 1,152 3,611 740 358	- - - - - -	- - - - - -	642 648 1,714 723 568	- - - 394 2 -	977 2,752 6,015 1,593 967 1,525 3,837
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles	7 751 94 10 3 56 26 58		-	35 53 201 203 117 38 109 345 74	835 275 1,152 3,611 740 358 879 2,428 612	- - - - - - -	- - - - - - -	642 648 1,714 723 568 480	- - 394 2 - - 2	977 2,752 6,015 1,593 967 1,525
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc.	7 751 94 10 3 56 26		-	35 53 201 203 117 38 109 345	835 275 1,152 3,611 740 358 879 2,428	- - - - - - - -	- - - - - - - -	642 648 1,714 723 568 480 1,036	- - - 394 2 - - - 2	977 2,752 6,015 1,593 967 1,525 3,837
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc.	7 751 94 10 3 56 26 58		-	35 53 201 203 117 38 109 345 74	835 275 1,152 3,611 740 358 879 2,428 612	- - - - - - - - -	- - - - - - - -	642 648 1,714 723 568 480 1,036 287	- - 394 2 - - 2	977 2,752 6,015 1,593 967 1,525 3,837 1,030
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc.	7 751 94 10 3 56 26 58 96		-	35 53 201 203 117 38 109 345 74 59	835 275 1,152 3,611 740 358 879 2,428 612 1,193	- - - - - - - - -	- - - -	642 648 1,714 723 568 480 1,036 287 1,132	- - 394 2 - - 2 - 27	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries	7 751 94 10 3 56 26 58 96		-	35 53 201 203 117 38 109 345 74 59 2,898	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895	- - - - - - - - - -	- - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734	394 2 - 2 - 27 407	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction	7 751 94 10 3 56 26 58 96		-	35 53 201 203 117 38 109 345 74 59 2,898 156	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895 252	- - - - - - - - - - -	- - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734	394 2 - 2 - 27 407	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067 563
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6)	7 751 94 10 3 56 26 58 96		- - - - - - - - -	35 53 201 203 117 38 109 345 74 59 2,898 156 57,025	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895 252	-	- - - - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734	394 2 - 2 - 27 407	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067 563 57,374
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air	7 751 94 10 3 56 26 58 96		- - - - - - - - - -	35 53 201 203 117 38 109 345 74 59 2,898 156 57,025 12,908 700	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895 252	-	- - - - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734 155 349	394 2 - - 2 - 27 407 -	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067 563 57,374 12,908 1,047
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road	7 751 94 10 3 56 26 58 96		- - - - - - - - - -	35 53 201 203 117 38 109 345 74 59 2,898 156 57,025 12,908 700 42,221	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895 252	-	- - - - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734 155 349	394 2 - - 2 - 27 407 -	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067 563 57,374 12,908 1,047 42,222
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation	7 751 94 10 3 56 26 58 96		- - - - - - - - - - - - -	35 53 201 203 117 38 109 345 74 59 2,898 156 57,025 12,908 700	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895 252	-	- - - - - - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734 155 349	394 2 - - 2 - 27 407 - -	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067 563 57,374 12,908 1,047
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines	7 751 94 10 3 56 26 58 96 133	582	- - - - - - - - - - - - - -	35 53 201 203 117 38 109 345 74 59 2,898 156 57,025 12,908 700 42,221 1,196	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895 252 - - -	-	- - - - - - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734 155 349	394 2 - - 2 - 27 407 - - -	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067 563 57,374 12,908 1,047 42,222 1,196
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other	7 751 94 10 3 56 26 58 96 133 752	582	- - - - - - - - - - - - - -	35 53 201 203 117 38 109 345 74 59 2,898 156 57,025 12,908 700 42,221 1,196	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895 252 - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734 155 349 - 347 2	- - - 394 2 - - 2 - 27 407 - - - - - - - - - - - - - - - - - - -	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067 563 57,374 12,908 1,047 42,222 1,196
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic	7 751 94 10 3 56 26 58 96 133 752 733	582	- - - - - - - - - - - - - -	35 53 201 203 117 38 109 345 74 59 2,898 156 57,025 12,908 700 42,221 1,196 - 4,703 3,265	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895 252 - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734 155 349 - 347 2 - - - 19,211 10,679	394 2 - 2 - 27 407 - - - - - - - - 25 5 5 5 5 5	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067 563 57,374 12,908 1,047 42,222 1,196 69,650 49,333
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	7 751 94 10 3 56 26 58 96 133 752 733 9	582	- - - - - - - - - - - - - -	35 53 201 203 117 38 109 345 74 59 2,898 156 57,025 12,908 700 42,221 1,196 - 4,703 3,265 504	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895 252 - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734 155 349 - - - - - - - - - - - - - - - - - - -	394 2 - 2 - 27 407 - - - - - - - - - 25 5 - - - - - - - -	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067 563 57,374 12,908 1,047 42,222 1,196 - 69,650 49,333 7,184
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial	7 751 94 10 3 56 26 58 96 133 752 733 9 4	582	- - - - - - - - - - - - - -	35 53 201 203 117 38 109 345 74 59 2,898 156 57,025 12,908 700 42,221 1,196 - 4,703 3,265 504 417	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895 252 - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734 155 349 - 347 2 - - - 19,211 10,679 1,733 6,451	394 2 - 2 - 27 407 - - - - - - - - - - - - - - - - - - -	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067 563 57,374 12,908 1,047 42,222 1,196 - 69,650 49,333 7,184 10,129
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	7 751 94 10 3 56 26 58 96 133 752 733 9	582	- - - - - - - - - - - - - -	35 53 201 203 117 38 109 345 74 59 2,898 156 57,025 12,908 700 42,221 1,196 - 4,703 3,265 504	835 275 1,152 3,611 740 358 879 2,428 612 1,193 895 252 - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	642 648 1,714 723 568 480 1,036 287 1,132 1,734 155 349 - - - - - - - - - - - - - - - - - - -	394 2 - 2 - 27 407 - - - - - - - - - 25 5 - - - - - - - -	977 2,752 6,015 1,593 967 1,525 3,837 1,030 2,508 6,067 563 57,374 12,908 1,047 42,222 1,196 - 69,650 49,333 7,184

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽²⁾ Includes comerly methane.
(3) Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.12 regarding electricity use in transport and 6.28 regarding renewables use in transport.

Aggregate energy balance 2003 Gross calorific values

	Coal	Manufactured	Drimon	Petroleum	Motural	Diagnaray 9	Drimoni	Electricity	Heat	Total
	Coai	fuel(1)	Primary oils	products	gas(2)	Bioenergy &	electricity	Electricity	sold	TOTAL
		ruer(1)	Olio	products	gu3(2)	Waste (0)	Cicotificity		3014	
Supply										
Indigenous production	17,636	-	116,242	-	102,996	3,008	20,428	-	-	260,310
Imports	20,703	694	59,114	17,948	7,420	110	-	440	-	106,430
Exports	-396	-133	-81,927	-25,274	-15,223	-	-	-254	-	-123,208
Marine bunkers	-	-	-	-1,879	-	-	-	-	-	-1,879
Stock change (4)	+2,070	-91	+511	-294	+304	-	-	-	-	+2,499
Primary supply	40,013	469	93,940	-9,500	95,498	3,118	20,428	186	-	244,152
Statistical difference (5)	-97	-49	+210	-661	+133	-	-	+190	-	-273
Primary demand	40,109	518	93,730	-8,839	95,364	3,118	20,428	-4	-	244,425
Transfers	-	-124	-1,367	+1,295	-7	-	-388	+388	-	-203
Transformation	-38,027	1,853	-92,363	91,545	-29,614	-2,408	-20,040	33,616	1,789	-53,649
Electricity generation	-32,548	-934	-	-591	-27,909	-2,408	-20,040	33,616	-	-50,813
Major power producers	-31,592	-	-	-105	-24,476	-381	-20,040	30,722	-	-45,872
Autogenerators	-956	-934	-	-486	-3,432	-2,027	-	2,894	-	-4,941
Heat generation	-386	-116	-	-158	-1,705	-	-	-	1,789	-576
Petroleum refineries	-	-	-92,363	92,533	-	-	-	-		169
Coke manufacture	-4,170	4,212	-	-	-	-	-	-	-	42
Blast furnaces	-642	-1,601	_	-238	_	_	_	-	_	-2,481
Patent fuel manufacture	-282	292	_		_	_	_	_	_	10
Other			_	_	_	_	_	_	_	-
Energy industry use	4	898	-	5,806	7,646	-	_	2,523	2	16,879
Electricity generation		-	_	-	.,	_	_	1,559	2	1,562
Oil and gas extraction		_	_	_	6,608	_	_	47	-	6,655
Petroleum refineries	_	_	_	5,804	238	_	_	496	_	6,539
Coal extraction	4	_	_	2	16	_	_	102	_	124
Coke manufacture		421	_	2	-	_	_	102	_	421
	-		-	-		-	-	-	-	
Blast furnaces	•	473	-	-	46	-	-	42	-	562
Patent fuel manufacture	-	3	-	-	-	-	-	-	-	3
Pumped storage	-	-	-	-		-	-	70	-	70
Other	-	-	-	-	737	-	-	206	-	943
Losses		160			535		-	2,568		3,262
Final consumption	2,078	1,190	-	78,195	57,563	710	-	28,910	1,787	170,432
Industry	1,248	844	-	6,899	14,292	267	-	9,396	1,128	34,074
Unclassified	-	255	-	2,505	6	267	-	-	-	3,033
Iron and steel	-	572	-	19	888	-	-	467	-	1,947
Non-ferrous metals	8	17	-	48	411	-	-	623	-	1,107
Mineral products	799	-	-	243	1,213	-	-	641	-	2,895
Chemicals	46	-	-	197	3,873	-	-	1,697	1,097	6,911
Mechanical engineering etc.	10	-	-	151	785	-	-	734	12	1,692
Electrical engineering etc.	1	-	-	28	378	-	-	513	-	921
Vehicles					000			482	14	1,644
	49	-	-	100	999	-	-			
Food, beverages, etc.	49 36	-	-	100 222			-	984	5	3,724
Food, beverages, etc. Textiles, leather, etc.	36	-	-	222	2,476	-	-		5 -	3,724 1.143
Textiles, leather, etc.	36 61	- - -	-	222 110	2,476 679	-	-	293	5 - -	1,143
Textiles, leather, etc. Paper, printing etc.	36 61 88	- - - -		222 110 56	2,476 679 1,367	- - -	-	293 1,079	5 - -	1,143 2,590
Textiles, leather, etc. Paper, printing etc. Other industries	36 61	- - - -	-	222 110 56 2,899	2,476 679 1,367 957	- - -	-	293 1,079 1,736	-	1,143 2,590 5,740
Textiles, leather, etc. Paper, printing etc. Other industries Construction	36 61 88	- - - - -	- - - -	222 110 56 2,899 322	2,476 679 1,367	- - - -	- - - -	293 1,079 1,736 146	5 - - -	1,143 2,590 5,740 727
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6)	36 61 88	:	- - - - -	222 110 56 2,899 322 55,660	2,476 679 1,367 957	- - - - -	-	293 1,079 1,736	-	1,143 2,590 5,740 727 56,366
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air	36 61 88		- - - - - -	222 110 56 2,899 322 55,660 11,936	2,476 679 1,367 957	- - - - -	-	293 1,079 1,736 146 706	-	1,143 2,590 5,740 727 56,366 11,936
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail	36 61 88	-	-	222 110 56 2,899 322 55,660 11,936 667	2,476 679 1,367 957	- - - - - -	-	293 1,079 1,736 146	-	1,143 2,590 5,740 727 56,366 11,936 1,373
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road	36 61 88	-	-	222 110 56 2,899 322 55,660 11,936 667 41,823	2,476 679 1,367 957	-	-	293 1,079 1,736 146 706	-	1,143 2,590 5,740 727 56,366 11,936 1,373 41,823
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation	36 61 88	-	-	222 110 56 2,899 322 55,660 11,936 667 41,823 1,234	2,476 679 1,367 957	-		293 1,079 1,736 146 706	-	1,143 2,590 5,740 727 56,366 11,936 1,373
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines	36 61 88 148 - - - - -		-	222 110 56 2,899 322 55,660 11,936 667 41,823 1,234	2,476 679 1,367 957 259 - - - - -			293 1,079 1,736 146 706 - 706	-	1,143 2,590 5,740 727 56,366 11,936 1,373 41,823 1,234
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other	36 61 88 148 - - - - - - 830	- - - - - - - - - 346	- - - - -	222 110 56 2,899 322 55,660 11,936 667 41,823 1,234	2,476 679 1,367 957 259 - - - - - - 42,409			293 1,079 1,736 146 706 - 706 - - - - - 18,807	- - - - - - - - - - - - - - -	1,143 2,590 5,740 727 56,366 11,936 1,373 41,823 1,234
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic	36 61 88 148 - - - - - 830 813	- - - - - - - - - 346	-	222 110 56 2,899 322 55,660 11,936 667 41,823 1,234 - 4,213 3,068	2,476 679 1,367 957 259 - - - - 42,409 33,232	247		293 1,079 1,736 146 706 - 706 - - - 1 8,807 10,576	- - - - - - - - - - 1 - 1 - 1 - 1 - 1 -	1,143 2,590 5,740 727 56,366 11,936 1,373 41,823 1,234 - 67,707 48,293
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	36 61 88 148 - - - - 830 813 8		- - - - -	222 110 56 2,899 322 55,660 11,936 667 41,823 1,234 - 4,213 3,068 399	2,476 679 1,367 957 259 - - - - 42,409 33,232 3,814	247 104	-	293 1,079 1,736 146 706 - 706 18,807 10,576 1,756	- - - - - - - - - - - - - 1 1 659	1,143 2,590 5,740 727 56,366 11,936 1,373 41,823 1,234 - 67,707 48,293 6,709
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic	36 61 88 148 - - - - - 830 813		- - - - -	222 110 56 2,899 322 55,660 11,936 667 41,823 1,234 - 4,213 3,068	2,476 679 1,367 957 259 - - - - 42,409 33,232	247		293 1,079 1,736 146 706 - 706 - - - 1 8,807 10,576	- - - - - - - - - - 1 - 1 - 1 - 1 - 1 -	1,143 2,590 5,740 727 56,366 11,936 1,373 41,823 1,234 - 67,707 48,293
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	36 61 88 148 - - - - 830 813 8		- - - - -	222 110 56 2,899 322 55,660 11,936 667 41,823 1,234 - 4,213 3,068 399	2,476 679 1,367 957 259 - - - - 42,409 33,232 3,814	247 104		293 1,079 1,736 146 706 - 706 18,807 10,576 1,756	- - - - - - - - - - - - - 1 1 659	1,143 2,590 5,740 727 56,366 11,936 1,373 41,823 1,234 - 67,707 48,293 6,709
Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial	36 61 88 148 - - - - 830 813 8		- - - - -	222 110 56 2,899 322 55,660 11,936 667 41,823 1,234 - 4,213 3,068 399 326	2,476 679 1,367 957 259 - - - - 42,409 33,232 3,814 3,400	247 104 20		293 1,079 1,736 146 706 - 706 - 18,807 10,576 1,756 6,131	- - - - - - - - - - - - - - - - - - -	1,143 2,590 5,740 727 56,366 11,936 1,373 41,823 1,234 67,707 48,293 6,709 9,879

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.(3) Includes geothermal and solar heat.

⁽⁴⁾ Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.12 regarding electricity use in transport and 6.28 regarding renewables use in transport.

	Coal	Manufactured	Primary	Petroleum	Natural	Bioenergy	Primary	Electricity	Heat	Total
		fuel(1)	oils	products	gas(2)	& waste(3)	-	•	sold	
Supply										
Indigenous production	18,808	_	127,037	_	103,646	2,755	20,619	_	_	272,864
Imports	18,814	181	62,152	16,195	5,201	_,. 00	-	790	_	103,334
Exports	-394	-272	-95,288	-25,470	-12.961	_	_	-66	_	-134,451
Marine bunkers	-		-	-2,044	,	_	_	-	_	-2,044
Stock change (4)	+375	+188	+158	+1,356	-633	_	_	_	_	+1,445
Primary supply	37,603	96	94,060	-9,963	95,255	2,755	20,619	723	-	241,149
Statistical difference (5)	+188	-34	-556	+66	+153	-,		+84		-99
Primary demand	37,415	131	94,616	-10,029	95,102	2,755	20,619	639	-	241,248
Transfers	_	-102	-2,017	+1,972	-9	_	-520	+520	-	-156
Transformation	-35,200	2,390	-92,599	90,817	-30,254	-2,073	-20,099	32,549	2,089	-52,379
Electricity generation	-29,683	-594	-	-731	-28,362	-2,073	-20,099	32,549	_,	-48,993
Major power producers	-28,706	-	_	-124	-25,044	-275	-20,099	29,872	_	-44,375
Autogenerators	-978	-594	_	-607	-3,318	-1,798	-	2,677	_	-4,617
Heat generation	-446	-164	_	-260	-1,892		_	2,077	2,089	-673
Petroleum refineries	-	-	-92,599	92,001	1,002	_	_	_	_,000	-598
Coke manufacture	-4,226	4,193	52,000	52,001	_	_	_	_	_	-34
Blast furnaces	-529	-1,362	_	-193	_	_	_	_	_	-2,083
Patent fuel manufacture	-315	317	-	-195				_	_	-2,003
Other	-313	317	-	-	_	-	-	_	-	_
Energy industry use	6	829		6,044	7,847			2,463	6	17,195
Electricity generation	-	029	_	0,044	7,047		_	1,473	6	1,478
Oil and gas extraction				_	6,824			46	-	6,871
Petroleum refineries				6,044	288			563	-	6,896
Coal extraction	6	-	_	0,044	17	-	-	100	-	123
	O	-	-	-		-	-	100	-	
Coke manufacture	-	411	-	-	-	-	-	-	-	411
Blast furnaces	-	399	-	-	19	-	-	43	-	461
Patent fuel manufacture	-	20	-	-	-	-	-	-	-	20
Pumped storage	-	-	-	-	-	-	-	70	-	70
Other	-	-	-	-	699	-	-	168	-	867
Losses		89	-		831		-	2,578	-	3,498
Final consumption	2,209	1,501	-	76,716	56,161	682	-	28,667	2,084	168,020
Industry	1,186	1,085	-	6,248	14,202	250	-	9,473	1,321	33,764
Unclassified	-	307	-	2,185	8	250	-	-	-	2,749
Iron and steel	-	736	-	82	756	-	-	438	-	2,011
Non-ferrous metals	14	42	-	80	452	-	-	544	-	1,132
Mineral products	782	-	-	259	1,215	-	-	603	4	2,864
Chemicals	40	-	-	229	3,807	-	-	1,923	1,310	7,309
Mechanical engineering etc.	11	-	-	229	797	-	-	730	-	1,767
Electrical engineering etc.	5	-	-	49	397	-	-	501	-	952
Vehicles	42	-	-	198	991	-	-	479	-	1,710
Food, beverages, etc.	32	-	-	256	2,484	-	-	1,020	6	3,799
Textiles, leather, etc.	60	-	-	125	674	-	-	294	-	1,153
Paper, printing etc.	82	-	-	79	1,329	-	-	1,005	-	2,495
Other industries	117	-	-	2,003	1,009	-	-	1,788	-	4,917
Construction	-	-	-	476	284	-	-	146	-	906
Transport (6)	-	-	-	54,958	-	-	-	727	-	55,685
Air	-	-	-	11,658	-	-	-	-	-	11,658
Rail	-	-	-	662	-	-	-	727	-	1,389
Road	-	-	-	41,936	-	-	-	-	-	41,936
National navigation	-	-	-	702	-	-	-	-	-	702
Pipelines		-	-	-	-	-	-		-	-
Other	1,024	416	-	4,893	41,032	432	-	18,468	763	67,027
Domestic	1,009	416	-	3,087	32,362	243	-	10,319	33	47,471
Public administration	5	-	-	743	3,697	97	-	1,750	730	7,022
Commercial	4	-	-	396	3,115	19	-	6,050	-	9,583
Agriculture	4	-	-	563	202	72	-	348	-	1,189
Miscellaneous	1	-	-	104 10,617	1,657	-	-	-	-	1,762 11,544
	-	-	-		927	-	-	-	-	

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽²⁾ Includes comerly methane.
(3) Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.12 regarding electricity use in transport and 6.28 regarding renewables use in transport.

Aggregate energy balance 2001 Gross calorific values

	Coal	Manufactured	Primary	Petroleum	Natural	Bioenergy	•	Electricity	Heat	Total
		fuel(1)	oils	products	gas(2)	& waste (3)	electricity		sold	
Supply										
Indigenous production	19,969	-	127,828	-	105,870	2,533	21,227	-	-	277,426
Imports	23,455	111	58,425	18,811	2,619	-	-	917	-	104,337
Exports	-412	-268	-95,047	-20,633	-11,894	-	-	-23	-	-128,277
Marine bunkers	-	-	-	-2,433	-	-	-	-	-	-2,433
Stock change (4)	-2,192	+115	-667	-666	-57				-	-3,467
Primary supply	40,820	-42	90,538	-4,922	96,538	2,533	21,227	894	-	247,586
Statistical difference (5)	-140	-56	+109	+376	+179		-	+100	-	+569
Primary demand	40,960	14	90,429	-5,298	96,359	2,533	21,227	794	-	247,017
Transfers	-	-112	+490	-365	-6	-	-432	+432	-	+8
Transformation	-38,249	2,890	-90,919	87,921	-28,936	-1,877	-20,795	32,445	2,330	-55,190
Electricity generation	-31,485	-600	-	-1,040	-26,908	-1,877	-20,795	32,445	-	-50,261
Major power producers	-30,489	-	-	-380	-23,797	-688	-20,795	29,873	-	-46,277
Autogenerators	-996	-600	-	-660	-3,110	-1,189	-	2,572	-	-3,984
Heat generation	-468	-207	-	-699	-2,028	-	-	-	2,330	-1,071
Petroleum refineries	-	-	-90,919	89,817	-	-	-	-	-	-1,101
Coke manufacture	-5,372	5,068	-	-	-	-	-	-	-	-304
Blast furnaces	-575	-1,727	-	-157	-	-	-	-	-	-2,459
Patent fuel manufacture	-350	356	-	-	-	-	-	-	-	6
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	7	957	-	5,421	7,863	-	-	2,405	3	16,656
Electricity generation	-	-	-	-	-	-	-	1,496	3	1,498
Oil and gas extraction	-	-	-	-	6,746	-	-	58	-	6,804
Petroleum refineries	-	-	-	5,421	360	-	-	450	-	6,231
Coal extraction	7	-	-	-	18	-	-	90	-	115
Coke manufacture	-	462	-	-	1	-	-	15	-	478
Blast furnaces	-	464	-	-	32	-	-	76	-	572
Patent fuel manufacture	-	32	-	-	-	-	-		-	32
Pumped storage	-	-	-	-	-	-	-	68	-	68
Other	-	-	-	-	706	-	-	152	-	858
Losses	-	103	-	-	762	-	-	2,657	-	3,522
Final consumption	2,704	1,731	-	76,838	58,792	656		28,609	2,327	171,657
Industry	1,195	1,355	-	6,611	15,464	243	-	9,573	1,001	35,443
Unclassified	-	243	-	2,122	9	243	-	-	-	2,617
Iron and steel	1	1,023	-	79	731	-	-	456	-	2,290
Non-ferrous metals	8	89	-	81	487	-	-	630	-	1,295
Mineral products	812	-	-	292	1,338	-	-	623	2	3,068
Chemicals	23	-	-	253	4,305	-	-	1,812	988	7,382
Mechanical engineering etc.	10		-	272			-	737		1,849
		-			830	-	-		-	
Electrical engineering etc.	6	-	-	62	432	-	-	490	-	990
Vehicles	6 41	-	-	62 186	432 1,035	- -	- - -	490 501	-	1,763
Vehicles Food, beverages, etc.	6 41 29	- - -	- - -	62 186 297	432 1,035 2,553	-	- - -	490 501 995	-	1,763 3,875
Vehicles Food, beverages, etc. Textiles, leather, etc.	6 41 29 54	- - - -	- - -	62 186 297 170	432 1,035 2,553 685	- - - -	- - -	490 501 995 284	- - - 10	1,763 3,875 1,202
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc.	6 41 29 54 73	- - - -	- - - -	62 186 297 170 111	432 1,035 2,553 685 1,425	- - - -	- - - -	490 501 995 284 990	-	1,763 3,875 1,202 2,599
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries	6 41 29 54	- - - - -	- - - - -	62 186 297 170 111 2,171	432 1,035 2,553 685 1,425 1,353	- - - - -	- - -	490 501 995 284 990 1,910	- - - 10	1,763 3,875 1,202 2,599 5,573
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction	6 41 29 54 73	- - - - - -	- - - - -	62 186 297 170 111 2,171 514	432 1,035 2,553 685 1,425	- - - - -	- - -	490 501 995 284 990 1,910	- - - 10	1,763 3,875 1,202 2,599 5,573 940
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6)	6 41 29 54 73	- - - - - - -	-	62 186 297 170 111 2,171 514 54,378	432 1,035 2,553 685 1,425 1,353	- - - - - -	- - -	490 501 995 284 990 1,910	- - - 10	1,763 3,875 1,202 2,599 5,573 940 55,137
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air	6 41 29 54 73	-	-	62 186 297 170 111 2,171 514 54,378 11,774	432 1,035 2,553 685 1,425 1,353	- - - - - -	- - - - -	490 501 995 284 990 1,910 146 759	- - - 10	1,763 3,875 1,202 2,599 5,573 940 55,137 11,774
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail	6 41 29 54 73	- - - - - - - - -	-	62 186 297 170 111 2,171 514 54,378 11,774 664	432 1,035 2,553 685 1,425 1,353	- - - - - - -	- - - - -	490 501 995 284 990 1,910	- - - 10	1,763 3,875 1,202 2,599 5,573 940 55,137 11,774 1,423
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road	6 41 29 54 73	- - - - - - - - - -	-	62 186 297 170 111 2,171 514 54,378 11,774 664 41,097	432 1,035 2,553 685 1,425 1,353	- - - - - - - -	- - - - -	490 501 995 284 990 1,910 146 759	- - - 10	1,763 3,875 1,202 2,599 5,573 940 55,137 11,774 1,423 41,097
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation	6 41 29 54 73	-	-	62 186 297 170 111 2,171 514 54,378 11,774 664 41,097	432 1,035 2,553 685 1,425 1,353	- - - - - - - - -	- - - - -	490 501 995 284 990 1,910 146 759	- - - 10	1,763 3,875 1,202 2,599 5,573 940 55,137 11,774 1,423
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines	6 41 29 54 73 138 - - - - -	- - - - - - - - - -	-	62 186 297 170 111 2,171 514 54,378 11,774 664 41,097 844	432 1,035 2,553 685 1,425 1,353 280 - - - -	- - - - - - - - - - -	- - - - -	490 501 995 284 990 1,910 146 759 - 759	- - - 10 - - - - - - -	1,763 3,875 1,202 2,599 5,573 940 55,137 11,774 1,423 41,097 844
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other	6 41 29 54 73 138 - - - - - 1,509	- - - - - - - - - 376	-	62 186 297 170 111 2,171 514 54,378 11,774 664 41,097 844	432 1,035 2,553 685 1,425 1,353 280 - - - - - - 42,351	- - - - - - - - - - 413	- - - - -	490 501 995 284 990 1,910 146 759 - 759 -	- - - 10 - - - - - - - 1,326	1,763 3,875 1,202 2,599 5,573 940 55,137 11,774 1,423 41,097 844 -
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic	6 41 29 54 73 138 - - - - - 1,509 1,461	376	-	62 186 297 170 111 2,171 514 54,378 11,774 664 41,097 844 - 6,095 3,527	432 1,035 2,553 685 1,425 1,353 280 - - - - - - - 42,351 32,625	240	- - - - - - - - - - - - - - - - - - -	490 501 995 284 990 1,910 146 759 - 759 - - - 1 8,277 9,917	- - 10 - - - - - - - 1,326 32	1,763 3,875 1,202 2,599 5,573 940 55,137 11,774 1,423 41,097 844 - 70,346 48,178
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	6 41 29 54 73 138 - - - - 1,509 1,461 34		-	62 186 297 170 111 2,171 514 54,378 11,774 664 41,097 844 - 6,095 3,527 845	432 1,035 2,553 685 1,425 1,353 280 42,351 32,625 3,975	240 90	- - - - - - - - - - - - - - - - - - -	490 501 995 284 990 1,910 146 759 - 759 - - - 18,277 9,917 1,815	- - 10 - - - - - - - 1,326 32 1,287	1,763 3,875 1,202 2,599 5,573 940 55,137 11,774 1,423 41,097 844 - 70,346 48,178 8,045
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial	6 41 29 54 73 138 - - - - 1,509 1,461 34 3	376	-	62 186 297 170 111 2,171 514 54,378 11,774 664 41,097 844 - 6,095 3,527 845 940	432 1,035 2,553 685 1,425 1,353 280 - - - - - - 42,351 32,625 3,975 3,190	240 90 11	- - - - - - - - - - - - - - - - - - -	490 501 995 284 990 1,910 146 759 - 759 - - - 18,277 9,917 1,815 6,192	- - - 10 - - - - - - - - - 32 1,287	1,763 3,875 1,202 2,599 5,573 940 55,137 11,774 1,423 41,097 844 - 70,346 48,178 8,045 10,336
Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	6 41 29 54 73 138 - - - - 1,509 1,461 34	376	-	62 186 297 170 111 2,171 514 54,378 11,774 664 41,097 844 - 6,095 3,527 845	432 1,035 2,553 685 1,425 1,353 280 42,351 32,625 3,975	240 90	- - - - - - - - - - - - - - - - - - -	490 501 995 284 990 1,910 146 759 - 759 - - - 18,277 9,917 1,815	- - 10 - - - - - - - 1,326 32 1,287	1,763 3,875 1,202 2,599 5,573 940 55,137 11,774 1,423 41,097 844 - 70,346 48,178 8,045

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽²⁾ Includes comerly methane.
(3) Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.12 regarding electricity use in transport and 6.28 regarding renewables use in transport.

	Coal	Manufactured fuel (1)	Primary oils	Petroleum products	Natural gas (2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat sold	Total
		iuci(1)	UIIS	products	yas(∠)	wasie(3)	GIGGHIGHLY		SUIU	
Supply	40:		100.000		100.55		00.1==		_	000 00
Indigenous production	19,551	-	138,282		108,397	2,306	20,153		-	288,690
Imports	15,732	347	59,341	15,470	2,238	-	-	1,230	-	94,359
Exports	-497	-315	-101,585	-22,338	-12,583	-	-	-12	-	-137,330
Marine bunkers	- 0.000	-	- 4 400	-2,208	-	-	-	-	-	-2,208
Stock change (4)	+3,836	-113	+1,196	-389	-952	2 206	20.452	4 240		+3,579
Primary supply	38,622	-81	97,235	-9,464	97,100	2,306	20,153	1,219		247,090
Statistical difference (5)	-39	-194	+542	+241	+242	+0	20.452	+128 1,090	-	+920 246,169
Primary demand	38,661	113	96,693	-9,705	96,858	2,306	20,153	1,090	-	240,109
Transfers	-	-61	-196	+307	-38	-	-519	+519	-	+13
Transformation	-35,919	2,996	-96,140	92,364	-30,048	-1,634	-19,634	31,672	2,515	-53,828
Electricity generation	-28,626	-899	-	-1,047	-27,907	-1,634	-19,634	31,672	-	-48,076
Major power producers	-27,748	-	-	-392	-24,401	-239	-19,634	28,784	-	-43,630
Autogenerators	-878	-899	-	-656	-3,506	-1,395	-	2,888	-	-4,446
Heat generation	-443	-209	-	-733	-2,140	-	-	-	2,515	-1,010
Petroleum refineries	-	-	-96,140	94,345	-	-	-	-	-	-1,795
Coke manufacture	-6,131	5,686	-	-	-	-	-	-	-	-446
Blast furnaces	-340	-1,977	-	-200	-	-	-	-	-	-2,517
Patent fuel manufacture	-380	395	-	-	-	-	-	-	-	16
Other		-				<u>-</u>	-		-	-
Energy industry use	9	1,134	357	5,623	6,702	-	-	2,406	-	16,230
Electricity generation	-	-	-	-	-	-	-	1,402	-	1,402
Oil and gas extraction	-	-	357	-	5,637	-	-	45	-	6,039
Petroleum refineries	-	-	-	5,576	313	-	-	547	-	6,436
Coal extraction	9	-	-	-	19	-	-	94	-	122
Coke manufacture	-	569	-	-	1	-	-	16	-	586
Blast furnaces	-	531	-	-	61	-	-	75	-	667
Patent fuel manufacture	-	35	-	-	-	-	-	-	-	35
Pumped storage	-	-	-	-	-	-	-	69	-	69
Other	-	-	-	46	670	-	-	157	-	874
Losses	-	165	-	-	1,761	-	-	2,549	-	4,475
Final consumption	2,733	1,750	-	77,343	58,310	672		28,325	2,515	171,649
Industry	1,228	1,290	-	6,039	15,773	264	-	9,812	1,099	35,506
Unclassified		398	-	2,399	10	264	-	-	-	3,072
Iron and steel	1	778	-	150	770	-	-	546	-	2,245
Non-ferrous metals		444		4.4	F07					1,198
	7	114	-	41	507	-	-	529	-	
Mineral products	800	114 -	-	261	1,363	-	-	697	2	3,123
Chemicals	800 23	114 - -	-	261 216	1,363 4,260	-	:	697 2,041	- 2 1,087	3,123 7,628
Chemicals Mechanical engineering etc.	800 23 7	114 - - -	- - -	261 216 200	1,363 4,260 958	- - -	- - -	697 2,041 810	1,087 -	3,123 7,628 1,975
Chemicals Mechanical engineering etc. Electrical engineering etc.	800 23 7 2	114 - - - -	- - - -	261 216 200 37	1,363 4,260 958 454	- - - -	- - - -	697 2,041 810 533	1,087 - -	3,123 7,628 1,975 1,026
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles	800 23 7 2 34	114 - - - -	- - - -	261 216 200 37 135	1,363 4,260 958 454 1,011	- - - - -	- - - -	697 2,041 810 533 543	1,087 - - -	3,123 7,628 1,975 1,026 1,723
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc.	800 23 7 2 34 12	114 - - - - -	- - - - -	261 216 200 37 135 224	1,363 4,260 958 454 1,011 2,565	- - - - -	- - - - -	697 2,041 810 533 543 1,008	1,087 - - - -	3,123 7,628 1,975 1,026 1,723 3,810
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc.	800 23 7 2 34 12 45	114 - - - - -	- - - - - -	261 216 200 37 135 224 149	1,363 4,260 958 454 1,011 2,565 727	- - - - - -	- - - - - -	697 2,041 810 533 543 1,008 309	1,087 - - - - 10	3,123 7,628 1,975 1,026 1,723 3,810 1,241
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc.	800 23 7 2 34 12 45 84	114 - - - - - -	- - - - - -	261 216 200 37 135 224 149 44	1,363 4,260 958 454 1,011 2,565 727 1,485	- - - - - -	- - - - - -	697 2,041 810 533 543 1,008 309 982	1,087 - - - -	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries	800 23 7 2 34 12 45	114 - - - - - - -	-	261 216 200 37 135 224 149 44 1,715	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398	- - - - - - -		697 2,041 810 533 543 1,008 309 982 1,678	1,087 - - - - 10 -	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction	800 23 7 2 34 12 45 84	114 - - - - - - - -	-	261 216 200 37 135 224 149 44 1,715	1,363 4,260 958 454 1,011 2,565 727 1,485	- - - - - - - -		697 2,041 810 533 543 1,008 309 982 1,678 136	1,087 - - - - 10	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6)	800 23 7 2 34 12 45 84	114 - - - - - - - - -	-	261 216 200 37 135 224 149 44 1,715 467 54,720	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398	-		697 2,041 810 533 543 1,008 309 982 1,678 136 741	1,087 - - - - 10 -	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867 55,461
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air	800 23 7 2 34 12 45 84	114 - - - - - - - -	-	261 216 200 37 135 224 149 44 1,715 467 54,720 11,978	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398	-		697 2,041 810 533 543 1,008 309 982 1,678 136 741	1,087 - - - - 10 -	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867 55,461 11,978
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail	800 23 7 2 34 12 45 84	114 - - - - - - - - -	-	261 216 200 37 135 224 149 44 1,715 467 54,720 11,978 639	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398	-		697 2,041 810 533 543 1,008 309 982 1,678 136 741	1,087 - - - - 10 -	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867 55,461 11,978 1,380
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road	800 23 7 2 34 12 45 84	114 	-	261 216 200 37 135 224 149 44 1,715 467 54,720 11,978 639 41,071	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398	-		697 2,041 810 533 543 1,008 309 982 1,678 136 741	1,087 - - - - 10 -	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867 55,461 11,978 1,380 41,071
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation	800 23 7 2 34 12 45 84	114 	-	261 216 200 37 135 224 149 44 1,715 467 54,720 11,978 639	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398	-		697 2,041 810 533 543 1,008 309 982 1,678 136 741	1,087 - - - - 10 -	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867 55,461 11,978 1,380
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines	800 23 7 2 34 12 45 84 213 - -	- - - - - - - - - - - - - - - - - - -		261 216 200 37 135 224 149 44 1,715 467 54,720 11,978 639 41,071 1,032	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398 264 - - -	-		697 2,041 810 533 543 1,008 309 982 1,678 136 741 - 741	1,087 - - - 10 - - - - - -	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867 55,461 11,978 1,380 41,071 1,032
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other	800 23 7 2 34 12 45 84 213 - - - - 1,505	- - - - - - - - - - - - - - - - - - -		261 216 200 37 135 224 149 44 1,715 467 54,720 11,978 639 41,071 1,032	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398 264 - - - - - - 41,304			697 2,041 810 533 543 1,008 309 982 1,678 136 741 - 741 17,772	1,087 - - - 10 - - - - - - - - - - - - - - -	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867 55,461 11,978 1,380 41,071 1,032
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic	800 23 7 2 34 12 45 84 213 - - - - 1,505	- - - - - - - - - - - - - - - - - - -		261 216 200 37 135 224 149 44 1,715 467 54,720 11,978 639 41,071 1,032 - 5,534 3,239	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398 264 - - - - 41,304 31,806	236		697 2,041 810 533 543 1,008 309 982 1,678 136 741 - 741 - 17,772 9,617	1,087 10	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867 55,461 11,978 1,380 41,071 1,032 68,398 46,851
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	800 23 7 2 34 12 45 84 213 - - - - 1,505 1,448 42	- - - - - - - - - - - - - - - - - - -		261 216 200 37 135 224 149 44 1,715 467 54,720 11,978 639 41,071 1,032 - 5,534 3,239 1,044	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398 264 - - - - 41,304 31,806 3,831	236 88		697 2,041 810 533 543 1,008 309 982 1,678 136 741 - 741 - 17,772 9,617 1,798	1,087 - - - 10 - - - - - - - - - - - - - - -	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867 55,461 11,978 1,380 41,071 1,032 68,398 46,851 8,090
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial	800 23 7 2 34 12 45 84 213 - - - - 1,505 1,448 42 5	- - - - - - - - - - - - - - - - - - -		261 216 200 37 135 224 149 44 1,715 467 54,720 11,978 639 41,071 1,032 - 5,534 3,239 1,044 469	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398 264 - - - 41,304 31,806 3,831 3,114	236 88 11		697 2,041 810 533 543 1,008 309 982 1,678 136 741 - 741 - 17,772 9,617 1,798 5,982	1,087 10	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867 55,461 11,978 1,380 41,071 1,032 68,398 46,851 8,090 9,581
Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	800 23 7 2 34 12 45 84 213 - - - - 1,505 1,448 42	- - - - - - - - - - - - - - - - - - -		261 216 200 37 135 224 149 44 1,715 467 54,720 11,978 639 41,071 1,032 - 5,534 3,239 1,044	1,363 4,260 958 454 1,011 2,565 727 1,485 1,398 264 - - - - 41,304 31,806 3,831	236 88		697 2,041 810 533 543 1,008 309 982 1,678 136 741 - 741 - 17,772 9,617 1,798	1,087 10	3,123 7,628 1,975 1,026 1,723 3,810 1,241 2,594 5,004 867 55,461 11,978 1,380 41,071 1,032 68,398 46,851 8,090

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽¹⁾ Includes colliery methane.
(2) Includes geothermal and solar heat.
(3) Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.12 regarding electricity use in transport and 6.28 regarding renewables use in transport.

Aggregate energy balance 1999

Gross calorific values

	Coal	Manufactured fuel (1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat sold	Total
Supply										
Indigenous production	23,219	-	150.160	_	99,109	2,225	22,942	_	_	297,655
Imports	13,734	305	48,964	15,121	1,106	2,225	22,542	1,247		80,476
Exports	-578	-195	-100,396	-23,524	-7,260		_	-23	_	-131,976
Marine bunkers	-570	-195	-100,390	-23,324	-1,200	_	_	-23	_	-2,471
Stock change (4)	-668	- +177	21.4	+642	+670	-	-	-	-	+606
<u> </u>	35,706		-214 98,514	-10,232	93,624	2,225	22,942	1,225		244,291
Primary supply		287		•		2,225	22,942	•		,
Statistical difference (5)	-400	-269	+68	+1,122	+61		-	+134	-	+715
Primary demand	36,106	556	98,446	-11,353 -	93,564	2,226	22,942	1,090	-	243,576
Transfers	-	-20	-1,650	+1,694	-44	-	-532	+532	-	-20
Transformation	-32,641	2,622	-96,406	92,569	-29,379	-1,538	-22,410	30,874	2,498	-53,811
Electricity generation	-25,516	-901	-	-1,247	-27,128	-1,434	-22,410	30,874	-	-47,761
Major power producers	-24,541	-	-	-386	-24,247	-193	-22,410	28,313	-	-43,464
Autogenerators	-975	-901	_	-860	-2,881	-1,241	-	2,561	_	-4,297
Heat generation	-402	-246	-	-734	-2,252	-104	-	· -	2,498	-1,238
Petroleum refineries	-		-96,406	94,828		-	-	-	-	-1,578
Coke manufacture	-5,900	5,401		,525	_	_	_	_	_	-499
Blast furnaces	-368	-2,101	_	-279	_	_	_	_	_	-2,748
Patent fuel manufacture.	-455	469	_	-213	_	_	-	-	_	-2,740 14
Other	-433		-	-	-	_	_	-	-	-
Energy industry use	7	1,120	391	5,943	6,618			2,312		16,391
	,	1,120	-	3,343	0,010	_	_	1,437	-	1,437
Electricity generation	-	-		-		-	-			
Oil & gas extraction	-	-	391	-	5,558	-	-	35	-	5,983
Petroleum refineries	-	-	-	5,879	357	-	-	428	-	6,665
Coal extraction	7		-	-	22	-	-	117	-	146
Coke manufacture	-	547	-		1	-	-	-	-	548
Blast furnaces	-	548	-	4	55	-	-	82	-	689
Patent fuel manufacture	-	24	-	-	-	-	-	-	-	24
Pumped storage	-	-	-	-	-	-	-	75	-	75
Other	-	-	-	60	626	-	-	139	-	825
Losses	-	163	-	-	1,262	-	-	2,433	-	3,858
Final consumption	3,458	1,875	-	76,966	56,261	688	-	27,751	2,498	169,497
Industry	1,353	1,379	-	5,374	15,203	283	-	9,542	1,086	34,222
		250		2,309	13	283	_	-	-	2,856
Unclassified	-	250	-	2,309	13	200				3,768
Iron and steel	9	1,027	-	2,309	1,859	-	-	841	-	0,700
	9 207		-			-	-	841 507	-	1,333
Iron and steel		1,027	- - -	33	1,859	- - -	- - -	-	- - 2	
Iron and steel Non-ferrous metals	207	1,027 102	- - -	33 40	1,859 477 1,250	- - -	- - -	507 625	-	1,333 2,482
Iron and steel Non-ferrous metals Mineral products Chemicals	207 378 297	1,027 102	- - - -	33 40 228	1,859 477	- - - -	- - -	507	- 2	1,333 2,482 7,326
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc.	207 378 297 18	1,027 102	- - - -	33 40 228 67	1,859 477 1,250 4,023 875	- - - - -	- - - -	507 625 1,864	- 2	1,333 2,482 7,326 1,812
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc.	207 378 297 18 5	1,027 102	- - - - -	33 40 228 67 160 28	1,859 477 1,250 4,023 875 339	- - - - -	- - - -	507 625 1,864 759 516	- 2 1,074 -	1,333 2,482 7,326 1,812 888
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles	207 378 297 18 5 55	1,027 102	- - - - -	33 40 228 67 160 28 112	1,859 477 1,250 4,023 875 339 913		- - - - -	507 625 1,864 759 516 483	- 2 1,074 -	1,333 2,482 7,326 1,812 888 1,562
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc.	207 378 297 18 5 55	1,027 102		33 40 228 67 160 28 112	1,859 477 1,250 4,023 875 339 913 2,399		- - - - - -	507 625 1,864 759 516 483 1,077	- 2 1,074 - - -	1,333 2,482 7,326 1,812 888 1,562 3,800
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc.	207 378 297 18 5 55 151 42	1,027 102	-	33 40 228 67 160 28 112 173	1,859 477 1,250 4,023 875 339 913 2,399 599	- - - - - - - -	- - - - - -	507 625 1,864 759 516 483 1,077 323	- 2 1,074 - - - - 10	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc.	207 378 297 18 5 55 151 42 83	1,027 102	- - - - - - - -	33 40 228 67 160 28 112 173 124 30	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078	- - - - - - - - -	-	507 625 1,864 759 516 483 1,077 323 945	- 2 1,074 - - - - 10	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries	207 378 297 18 5 55 151 42	1,027 102	- - - - - - - - -	33 40 228 67 160 28 112 173 124 30 1,559	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196		- - - - - - - -	507 625 1,864 759 516 483 1,077 323 945 1,472	- 2 1,074 - - - - 10	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction	207 378 297 18 5 55 151 42 83	1,027 102	-	33 40 228 67 160 28 112 173 124 30 1,559 511	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078		-	507 625 1,864 759 516 483 1,077 323 945 1,472 131	- 2 1,074 - - - - 10	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 826
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6)	207 378 297 18 5 55 151 42 83	1,027 102	-	33 40 228 67 160 28 112 173 124 30 1,559 511 54,115	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196		-	507 625 1,864 759 516 483 1,077 323 945 1,472	- 2 1,074 - - - 10 - -	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 826 54,853
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air	207 378 297 18 5 55 151 42 83	1,027 102	-	33 40 228 67 160 28 112 173 124 30 1,559 511 54,115	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196		-	507 625 1,864 759 516 483 1,077 323 945 1,472 131	- 2 1,074 - - - - 10	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 826 54,853 11,017
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail	207 378 297 18 5 55 151 42 83	1,027 102		33 40 228 67 160 28 112 173 124 30 1,559 511 54,115 11,017 632	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196		-	507 625 1,864 759 516 483 1,077 323 945 1,472 131	- 2 1,074 - - - 10 - -	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 826 54,853 11,017 632
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road	207 378 297 18 5 55 151 42 83	1,027 102		33 40 228 67 160 28 112 173 124 30 1,559 511 54,115 11,017 632 41,399	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196		-	507 625 1,864 759 516 483 1,077 323 945 1,472 131	- 2 1,074 - - - 10 - -	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 826 54,853 11,017 632 41,399
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation	207 378 297 18 5 55 151 42 83	1,027 102		33 40 228 67 160 28 112 173 124 30 1,559 511 54,115 11,017 632	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196		-	507 625 1,864 759 516 483 1,077 323 945 1,472 131	- 2 1,074 - - - 10 - -	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 826 54,853 11,017 632
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines	207 378 297 18 5 55 151 42 83 109 - - -	1,027 102		33 40 228 67 160 28 112 173 124 30 1,559 511 54,115 11,017 632 41,399 1,067	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196 184		-	507 625 1,864 759 516 483 1,077 323 945 1,472 131 738	- 2 1,074 10 	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 54,853 11,017 632 41,399 1,067
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other	207 378 297 18 5 55 151 42 83 109 - - - - - - -	1,027 102		33 40 228 67 160 28 112 173 124 30 1,559 511 54,115 11,017 632 41,399 1,067	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196 184	- - - - - - - - - - - - - - - - - - -	-	507 625 1,864 759 516 483 1,077 323 945 1,472 131 738	- 2 1,074 10 	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 826 54,853 11,017 632 41,399 1,067
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic	207 378 297 18 5 55 151 42 83 109 - - - - - 2,105 1,916	1,027 102		33 40 228 67 160 28 112 173 124 30 1,559 511 54,115 11,017 632 41,399 1,067	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196 184 - - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - -	507 625 1,864 759 516 483 1,077 323 945 1,472 131 738	- 2 1,074 10 	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 826 54,853 11,017 632 41,399 1,067
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public admin	207 378 297 18 5 55 151 42 83 109 - - - - - - -	1,027 102		33 40 228 67 160 28 112 173 124 30 1,559 511 54,115 11,017 632 41,399 1,067 - 5,626 3,162 1,065	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196 184 - - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	-	507 625 1,864 759 516 483 1,077 323 945 1,472 131 738 - - - - - 17,471 9,485 1,887	- 2 1,074 10 	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 826 54,853 11,017 632 41,399 1,067 - 67,459 46,121 8,215
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public admin Commercial	207 378 297 18 5 55 151 42 83 109 - - - - 2,105 1,916 162	1,027 102		33 40 228 67 160 28 112 173 124 30 1,559 511,017 632 41,399 1,067 - 5,626 3,162 1,065 481	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196 184 - - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - -	507 625 1,864 759 516 483 1,077 323 945 1,472 131 738 - - - - - 1 7,471 9,485 1,887 5,739	- 2 1,074 10 	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 826 54,853 11,017 632 41,399 1,067 - 67,459 46,121 8,215 9,377
Iron and steel Non-ferrous metals Mineral products Chemicals Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public admin	207 378 297 18 5 55 151 42 83 109 - - - - - 2,105 1,916	1,027 102		33 40 228 67 160 28 112 173 124 30 1,559 511 54,115 11,017 632 41,399 1,067 - 5,626 3,162 1,065	1,859 477 1,250 4,023 875 339 913 2,399 599 1,078 1,196 184 - - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - -	507 625 1,864 759 516 483 1,077 323 945 1,472 131 738 - - - - - 17,471 9,485 1,887	- 2 1,074 10 	1,333 2,482 7,326 1,812 888 1,562 3,800 1,098 2,135 4,336 826 54,853 11,017 632 41,399 1,067 - 67,459 46,121 8,215

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽³⁾ Includes geothermal and solar heat.

⁽⁴⁾ Stock fall (+), stock rise (-).

⁽⁵⁾ Primary supply minus primary demand.
(6) See paragraphs 5.12 regarding electricity use in transport and 6.28 regarding renewables use in transport.

Aggregate energy balance 1998

Gross calorific values

	Coal	Manufactured fuel (1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Total
Supply	05.757		4.45.000		00.400	0.077	00.050		007.000
Indigenous production	25,757	-	145,263	-	90,186	2,077	23,950	-	287,233
Imports	14,782	590	52,352	12,345	910	-	-	1,083	82,061
Exports	-706	-225	-92,516	-26,381	-2,717	-	-	-11	-122,556
Marine bunkers	-	-	-	-3,257	-	-	-	-	-3,257
Stock change (4)	+907	-134	-649	-92	-32	2.077	- 22.050	4 072	242 400
Primary supply	40,739	231	104,450	-17,386	88,346	2,077	23,950	1,072	243,480
Statistical difference (5)	+129	-89	-1,147	+454	+455	- 2.077	- 22.050	+160 912	-38 243,518
Primary demand	40,611	320	105,597	-17,840	87,891	2,077	23,950	912	243,316
Transfers	-	-129	-2,729	+2,705	-52	-	-515	+515	-206
Transformation	-36,891	3,384	-102,442	99,557	-23,021	-1,212	-23,435	30,532	-53,529
Electricity generation	-29,902	-901	-	-1,482	-23,021	-1,212	-23,435	30,532	-49,421
Major power producers	-28,713	-	-	-784	-20,318	-147	-23,435	28,195	-45,202
Autogenerators	-1,190	-901	-	-698	-2,703	-1,065	-	2,337	-4,219
Petroleum refineries	-	-	-102,442	101,316	-	-	-	-	-1,127
Coke manufacture	-6,112	5,737	-	-	-	-	-	-	-375
Blast furnaces	-418	-1,904	-	-277	-	-	-	-	-2,599
Patent fuel manufacture	-459	452	-	-	-	-	-	-	-7
Other	-	-	-	-	-	-	-	-	-
Energy industry use	4	1,185	426	6,608	6,534	-	-	2,412	17,168
Electricity generation	-	-	-	-	-	-	-	1,497	1,497
Oil and gas extraction	-	-	426	-	5,632	-	-	46	6,104
Petroleum refineries	-	-	-	6,549	323	-	-	442	7,313
Coal extraction	4	-	-	-	28	-	-	115	147
Coke manufacture	-	583	-	-	1	-	-	-	583
Blast furnaces	-	572	-	4	45	-	-	82	703
Patent fuel manufacture	-	30	-	-	-	-	-	-	30
Pumped storage	-	-	-	-	-	-	-	83	83
Other	-	-	-	55	505	-	-	148	708
Losses	-	156	-	-	1,398	-	-	2,404	3,957
Final consumption	3,716	2,234	-	77,814	56,886	865	-	27,143	168,658
Industry	1,607	1,709	-	6,379	15,140	461	-	9,216	34,512
Unclassified	-	292	-	1,929	15	461	-	-	2,697
Iron and steel	7	1,322	-	89	1,729	-	-	823	3,969
Non-ferrous metals	122	95	-	41	476	-	-	490	1,224
Mineral products	485	-	_	241	1,263		_		2,603
				241	1,200	-		614	2,003
Chemicals	444	-	-	605	3,988	-	-	614 1,798	6,837
Chemicals Mechanical engineering etc.	444 20	-	-		,	- -	-		
		- - -	- - -	605	3,988	- - -	- - -	1,798	6,837
Mechanical engineering etc.	20	- - -	- - -	605 215	3,988 862	- - - -	- - - -	1,798 733	6,837 1,829
Mechanical engineering etc. Electrical engineering etc.	20	- - - -	- - - -	605 215 92	3,988 862 302	- - - -	- - - -	1,798 733 516	6,837 1,829 912
Mechanical engineering etc. Electrical engineering etc. Vehicles	20 2 32	- - - - -	- - - -	605 215 92 134	3,988 862 302 883	- - - - -	- - - - -	1,798 733 516 480	6,837 1,829 912 1,530
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc.	20 2 32 204	- - - - - -	- - - - -	605 215 92 134 418	3,988 862 302 883 2,345 625 1,225	- - - - -	- - - - -	1,798 733 516 480 1,019	6,837 1,829 912 1,530 3,986
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc.	20 2 32 204 50	- - - - - -	- - - - - -	605 215 92 134 418 100	3,988 862 302 883 2,345 625	- - - - - -	- - - - - -	1,798 733 516 480 1,019 315	6,837 1,829 912 1,530 3,986 1,090
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc.	20 2 32 204 50 75	- - - - - - -	- - - - - -	605 215 92 134 418 100 125	3,988 862 302 883 2,345 625 1,225	-	- - - - - - -	1,798 733 516 480 1,019 315 919	6,837 1,829 912 1,530 3,986 1,090 2,343
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries	20 2 32 204 50 75 167	- - - - - - - -	- - - - - - -	605 215 92 134 418 100 125 1,839	3,988 862 302 883 2,345 625 1,225	-	- - - - - - - -	1,798 733 516 480 1,019 315 919 1,377	6,837 1,829 912 1,530 3,986 1,090 2,343 4,622
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction	20 2 32 204 50 75 167	- - - - - - - - -	- - - - - - - -	605 215 92 134 418 100 125 1,839 551	3,988 862 302 883 2,345 625 1,225	-	- - - - - - - - -	1,798 733 516 480 1,019 315 919 1,377	6,837 1,829 912 1,530 3,986 1,090 2,343 4,622 871
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6)	20 2 32 204 50 75 167	- - - - - - - - -	- - - - - - - - -	605 215 92 134 418 100 125 1,839 551 53,040	3,988 862 302 883 2,345 625 1,225	-	- - - - - - - - - -	1,798 733 516 480 1,019 315 919 1,377 132 732	6,837 1,829 912 1,530 3,986 1,090 2,343 4,622 871 53,772
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air	20 2 32 204 50 75 167	- - - - - - - - - -	- - - - - - - - - -	605 215 92 134 418 100 125 1,839 551 53,040 10,237 608 41,020	3,988 862 302 883 2,345 625 1,225	-	- - - - - - - - - - - - - - - - - - -	1,798 733 516 480 1,019 315 919 1,377 132 732	6,837 1,829 912 1,530 3,986 1,090 2,343 4,622 871 53,772 10,237
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation	20 2 32 204 50 75 167	- - - - - - - - - -	-	605 215 92 134 418 100 125 1,839 551 53,040 10,237 608 41,020 1,175	3,988 862 302 883 2,345 625 1,225	- - - - - - - - - -	- - - - - - - - - -	1,798 733 516 480 1,019 315 919 1,377 132 732	6,837 1,829 912 1,530 3,986 1,090 2,343 4,622 871 53,772 10,237 608
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines	20 2 32 204 50 75 167 - - -	- - - - - - - - - -		605 215 92 134 418 100 125 1,839 551 53,040 10,237 608 41,020 1,175	3,988 862 302 883 2,345 625 1,225 1,239 189		- - - - - - - - - - -	1,798 733 516 480 1,019 315 919 1,377 132 732	6,837 1,829 912 1,530 3,986 1,090 2,343 4,622 871 53,772 10,237 608 41,020 1,175
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other	20 2 32 204 50 75 167 - - - 2	- - - - - - - - - - 525	-	605 215 92 134 418 100 125 1,839 551 53,040 10,237 608 41,020 1,175	3,988 862 302 883 2,345 625 1,225 1,239 189	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - -	1,798 733 516 480 1,019 315 919 1,377 132 732	6,837 1,829 912 1,530 3,986 1,090 2,343 4,622 871 53,772 10,237 608 41,020 1,175
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic	20 2 32 204 50 75 167 - - - 2,109 1,819	- - - - - - - - - 525		605 215 92 134 418 100 125 1,839 551 53,040 10,237 608 41,020 1,175 - 6,687 3,543	3,988 862 302 883 2,345 625 1,225 1,239 189 - - - - - - - - - - - - - - - - - - -	230	- - - - - - - - - - - - - -	1,798 733 516 480 1,019 315 919 1,377 132 732 17,196 9,408	6,837 1,829 912 1,530 3,986 1,090 2,343 4,622 871 53,772 10,237 608 41,020 1,175 -
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	20 2 32 204 50 75 167 - - - 2			605 215 92 134 418 100 125 1,839 551 53,040 10,237 608 41,020 1,175 - 6,687 3,543 1,501	3,988 862 302 883 2,345 625 1,225 1,239 189 - - - - - - - - - - - - - - - - - - -	230 96	- - - - - - - - - - - - - - - - - - -	1,798 733 516 480 1,019 315 919 1,377 132 732 17,196 9,408 1,855	6,837 1,829 912 1,530 3,986 1,090 2,343 4,622 871 53,772 10,237 608 41,020 1,175 - 67,637 46,126 8,141
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial	20 2 32 204 50 75 167 - - - 2,109 1,819 220			605 215 92 134 418 100 125 1,839 551 53,040 10,237 608 41,020 1,175 - 6,687 3,543 1,501 605	3,988 862 302 883 2,345 625 1,225 1,239 189 - - - - - - - - - - - - - - - - - - -	230 96 6	- - - - - - - - - - - - - - - - - - -	1,798 733 516 480 1,019 315 919 1,377 132 732 17,196 9,408 1,855 5,585	6,837 1,829 912 1,530 3,986 1,090 2,343 4,622 871 53,772 10,237 608 41,020 1,175 - 67,637 46,126 8,141 9,698
Mechanical engineering etc. Electrical engineering etc. Vehicles Food, beverages, etc. Textiles, leather, etc. Paper, printing etc. Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	20 2 32 204 50 75 167 - - - 2,109 1,819			605 215 92 134 418 100 125 1,839 551 53,040 10,237 608 41,020 1,175 - 6,687 3,543 1,501	3,988 862 302 883 2,345 625 1,225 1,239 189 - - - - - - - - - - - - - - - - - - -	230 96	- - - - - - - - - - - - - - - - - - -	1,798 733 516 480 1,019 315 919 1,377 132 732 17,196 9,408 1,855	6,837 1,829 912 1,530 3,986 1,090 2,343 4,622 871 53,772 10,237 608 41,020 1,175 - 67,637 46,126 8,141

Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.
 Includes colliery methane.

⁽³⁾ Includes geothermal and solar heat.

⁽⁴⁾ Stock fall (+), stock rise (-).(5) Primary supply minus primary demand.

⁽⁶⁾ See paragraphs 5.11 regarding electricity use in transport and 6.24 regarding renewables use in transport.

Value balance of traded energy in 2009⁽¹⁾

									£million
	Coal	Manufactured	Crude	Petroleum		Electricity			Total
		solid fuels	oil	products	gas		sold	fuels	
Supply									
Indigenous production	720r	200	18,075r	27,570r	5,790r	15,995r	555r	245	69,150r
Imports	2,720	35	17,075r	7,445r	4,775r	260r	-	320	32,620r
Exports	-75	-30	-13,265r	-8,245r	-1,420r	-160r	-	-	-23,195r
Marine bunkers	-	-		-1,210r	-	-	-	-	-1,210r
Stock change	-300r	10	155r	90	-55r			-	-95r
Basic value of inland consumption	3,060	215	22,040	25,655r	9,090r	16,095r	555r	560r	77,270r
Tax and margins	COE	20		2 440-	42.040-	44.405-		70	24 445-
Distribution costs and margins	625	30	-	3,110r	12,910r	14,405r	-	70	31,145r
Electricity generation	250	-	-	25r	-	-	-	-	275r
Solid fuel manufacture	200	-	-	-	-	-	-	-	200
of which iron & steel sector	175	-	-	-	-	-	-	-	175
Iron & steel final use	30	5	-	-5r	-	-	-	-	30r
Other industry	10	10	-	440r	-	-	-	-	455r
Air transport	-	-	-	235	-	-	-	-	235
Rail and national navigation	-	-	-	35r	-	-	-		35r
Road transport		-	-	1,790	-	-	-	70	1,860
Domestic	135	10	-	225	-	-	-	-	370
Agriculture	-	-	-	15	-	-	-	-	15
Commercial and other services	-	-	-	50	-	-	-	-	50
Non energy use	-	-	-	295r	135r	-	-	-	430r
VAT and duties	10	5	-	33,460r	600r	690r	-	930	35,695r
Electricity generation	-	-	-	85r		-	-	-	85r
Iron & steel final use	-	-	-	20r			-	-	20r
Other industry	-	-	-	275r	-	-	-	-	275r
Air transport	-	-	-	10	-	-	-	-	10
Rail and national navigation	-	-	-	115r	-	-	-	-	115r
Road transport	-	-	-	32,755	-	-	-	925	33,680
Domestic	10	5	-	75	600r	690r	-	-	1,385r
Agriculture	-	-	-	20	-	-	-	-	20
Commercial and other services	-	-	-	105	-	-	-	-	105
Climate Change Levy	5	-	-	-	170	530	-	-	705
Total tax and margins	640	35	-	36,570r	13,675r	15,625r	-	1,000	67,540r
Market value of inland consumption	3,700	250	22,040	62,225r	22,765r	31,715	555r	1,560r	144,810r
Energy end use									
Total energy sector	3,030	-	22,040	580r	5,455r	390r	-	90	31,590r
Transformation	3,030	-	22,040	430r	5,350r	-	-	90	30,945r
Electricity generation	2,125	-	-	415r	5,030r	-	-	90	7,665r
of which from stocks	45	-	-	-	-	-	-	-	45
Heat Generation	25	-	-	20	320r	-	-	-	365r
Petroleum refineries	-	-	22,040	-	-	-	-	-	22,040
Solid fuel manufacture	880	-	-	-	-	-	-	-	880
of which iron & steel sector	770	-	-	-	-	-	-	-	770
Other energy sector use	-	-	-	150	105r	390r	-	-	645r
Oil & gas extraction	-	-	-	150	-	50r	-	-	200r
Petroleum refineries	-	-	-	-	55r	260r	-	-	315r
Coal extraction	-	-	-	-	-	80r	-	-	80r
Other energy sector	-	-	-	-	50r	-	-	-	50r
Total non energy sector use	670	250	-	59,275r	17,175r	31,330r	555r	1,470r	110,720r
Industry	425	140	-	1,955r	2,225r	6,775r	355r	20	11,895r
Iron & steel final use	140	120	_	25r	100r	85r	-	-	475r
Other industry	280	20	-	1,930r	2,125r	6,690r	355r	20	11,420r
Transport	-	-	-	55,510r	-	335r	-	1,405	57,250r
Air	-	_	_	4,425	-	-	_	-	4,425
Rail and national navigation	-	-	-	455r	-	335r	_	_	785r
Road	_	-	_	50,630	_	-	_	1,405	52,035
Other final users	245	105	_	1,810	14,945r	24,220r	200r	45r	41,575r
Domestic	245	105	_	1,245	12,605r	14,535r	25r	45r	28,810r
Agriculture	2 7 5	100	-	1,243	12,0031 50r	395r	201	-	20,610r 570r
Commercial and other services	5	-	-	445	2,290r	9,290r	- 175r	-	12,200r
	3,700	250	22,040	59,855r	22,630r	31,715r	555r		142,310r
Total value of energy end use	3,700	200	££,040	2,365r	22,630i 135r	31,7131	JJJI	1,5001	2,500r
Value of non energy end use Market value of inland consumption	3,700	250	22,040	2,365r 62,225r	22,765r	31,715r	555r	1,560r	2,500r 144,810r
	J. / UU	230	22,040	UZ,ZZJI	22,1031	31,1131	3331	1,5001	177,010

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Value balance of traded energy in 2008⁽¹⁾

									£million
	Coal	Manufactured	Crude	Petroleum	Natural	Electricity	Heat	Other	Total
		solid fuels	oil	products	gas		sold	fuels	
Supply									
Indigenous production	615r	90r	25,955r	38,125r	8,745r	6,165r	590r	330r	80,615r
Imports	3,525r	165	23,910r	11,115r	6,425r	485r	-	275r	45,900r
Exports	-55	-30	-18,570r	-11,915r	-1,945r	-110r	-	-	-32,630r
Marine bunkers	-	-	-	-1,505r	-	-	-	-	-1,505r
Stock change	-165r	-10	90r	-30r	-45r	-			-155r
Basic value of inland consumption	3,920r	215r	31,385	35,795r	13,180r	6,540r	590r	605r	92,230r
Tax and margins	700	0.5		0.055	40.440	00.000			00.470
Distribution costs and margins	700r	85r	-	3,655r	10,410r	23,260r	-	65	38,170r
Electricity generation	360	-	-	30	-	-	-	-	385
Solid fuel manufacture	190	-	-	-	-	-	-	-	190
of which iron & steel sector	170	-	-	-	-	-	-	-	170
Iron & steel final use	35	60r	-	400-	-	-	-	-	95r
Other industry	10r	15r	-	460r	-	-	-	-	485r
Air transport	-	-	-	320r	-	-	-	-	320r
Rail and national navigation	-	-	-	25r	-	-	-	-	25r
Road transport	-	-	-	1,990r	-	-	-	65	2,050r
Domestic	100	10	-	355r	-	-	-	-	470r
Agriculture	-	-	-	20r	-	-	-	-	20r
Commercial and other services	-	-	-	75r	-	-	-	-	80r
Non energy use	-	_	-	380r	180r	-	-		560r
VAT and duties	10	5	-	32,035r	575r	680r	-	770r	34,075r
Electricity generation	-	-	-	100r	-	-	-	-	100r
Iron & steel final use	-	-	-	10r	-	-	-	-	10r
Other industry	-	-	-	300r	-	-	-	-	300r
Air transport	-	-	-	15	-	-	-	-	15
Rail and national navigation	-	-	-	110r	-	-	-	-	110r
Road transport	-	-	-	31,275r	-	-	-	770r	32,045r
Domestic	10	5	-	100	575r	680r	-	-	1,370r
Agriculture	-	-	-	20	-	-	-	-	20
Commercial and other services	-	-	-	115	-	-	-	-	115
Climate Change Levy	5	-	-	-	180	540	-	-	730
Total tax and margins	715r	90r	-	35,690r	11,165r	24,480r	-	835r	72,970r
Market value of inland consumption	4,635r	300r	31,385	71,485r	24,345r	31,020r	590r	1,440r	165,200r
Energy end use									
Total energy sector	3,950	-	31,385	725r	6,770r	330r	30r	100r	43,285r
Transformation	3,950	-	31,385	475r	6,605r	-	-	100r	42,510
Electricity generation	3,080	-	-	455r	6,185r	-	-	100r	9,825
of which from stocks	70	-	-	-	-	-	-	-	70
Heat Generation	35	-	-	20	420r	-	-	-	470r
Petroleum refineries	-	-	31,385	-	-	-	-	-	31,385
Solid fuel manufacture	835	-	-	-	-	-	-	-	835
of which iron & steel sector	740	-	-	-	-	-	-	-	740
Other energy sector use	-	-	-	250r	165r	330r	30r	-	775r
Oil & gas extraction	-	-	-	250r	-	40	-	-	290r
Petroleum refineries	-	-	-	-	80r	220r	30r	-	330r
Coal extraction	-	-	-	-	-	70r	-	-	70r
Other energy sector	-	-	-	-	85r	-	-	-	85r
Total non energy sector use	685r	300r	-	67,875r	17,395r	30,690r	565r	1,335r	118,850r
Industry	485r	200r	-	2,605r	2,925r	7,225r	395r	30	13,870r
Iron & steel final use	155	175r	-	75r	160r	150r	-	-	715r
Other industry	330r	30r	-	2,530r	2,770r	7,075r	395r	30	13,155r
Transport	-	-	-	62,805r	-	290r	-	1,260	64,355r
Air	-	-	-	7,595r	-	-	-	-	7,595r
Rail and national navigation	-	-	-	550r	-	285r	-	-	835r
Road	-	-	-	54,665r	-	-	-	1,260	55,925r
Other final users	200	100	-	2,465r	14,470r	23,175r	170r	45r	40,625r
Domestic	200	100	_	1,695	12,070r	14,245r	20r	45r	28,380r
Agriculture		-	_	145	65r		-	-	580r
Commercial and other services	_	-	_	625r	2,330r	8,555r	150r	_	11,665r
Total value of energy end use	4,635r	300r	31,385	68,600r	24,165r	31,020r	590r	1,440r	162,135r
Value of non energy end use	-,	-	-	2,890r	180r	,	-	, .	3,065r
Market value of inland consumption	4,635r	300r	31,385	71,485r	24,345r	31,020r	590r	1,440r	165,200r
market value of filland consumption	.,		,	,	.,5.51	,		, .	,

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Value balance of traded energy in 2007⁽¹⁾

	Coal	Manufactured	Crude	Petroleum	Natural	Electricity	Heat	Other	Total
		solid fuels	oil	products	gas		sold	fuels	
Supply									
Indigenous production	600r	40r	19,685r	26,500r	6,900r	12,135r	475r	220r	66,555r
Imports	1,960	140	15,780r	7,680r	2,885r	240r	-	35r	28,720r
Exports	-40	-25	-13,820r	-8,665r	-995r	-110r	-	-	-23,655r
Marine bunkers	-	-	-	-555	-	-	-	-	-555
Stock change	110r	-10	180r	345r	55r				680r
Basic value of inland consumption	2,625r	145r	21,830r	25,300r	8,845r	12,265r	475r	255	71,740r
Tax and margins	200-	405		0.040-	0.545	40.540-		0.5	00.005
Distribution costs and margins	390r	125r	-	3,340r	9,515r	13,510r	-	25	26,905r
Electricity generation	140r	-	-	20r	-	-	-	-	160r
Solid fuel manufacture of which iron & steel sector	110	-	-	-	-	-	-	-	110 100
	100	100-	-		-	-	-		
Iron & steel final use	20	100r	-	25r	-	-	-	-	145r
Other industry	15r	15r	-	445r	-	-	-	-	480r
Air transport	-	-	-	225r	-	-	-	-	225r
Rail and national navigation	-	-	-	45r	-	-	-	-	45r
Road transport	405	-	-	2,085r	-	-	-	25	2,110r
Domestic	105	10	-	125r	-	-	-	-	235r
Agriculture	-	-	-	15r	-	-	-	-	15r
Commercial and other services	-	-	-	55r	455	-	-	-	60r
Non energy use	- 40	-	-	295r	155r	-	-	-	450r
VAT and duties	10	5	-	31,860r	475r	595r	-	320	33,260r
Electricity generation	-	-	-	55	-	-	-	-	55
Iron & steel final use	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	285r	-	-	-	-	285r
Air transport	-	-	-	15	-	-	-	-	15
Rail and national navigation	-	-	-	190r	-	-	-	-	190r
Road transport	- 40	-	-	31,125r	475	-	-	315	31,440r
Domestic	10	5	-	70	475r	595r	-	-	1,155r
Agriculture	-	-	-	15	-	-	-	-	15
Commercial and other services	-	-	-	100r	405	-	-	-	100r
Climate Change Levy	5	400	-	-	165	515	-	-	685
Total tax and margins Market value of inland consumption	405r 3,030r	130r 275r	21,830r	35,205r	10,150r 18,995r	14,620r 26,890r	475r	340 595	60,850r 132,590r
<u> </u>	3,0301	2/31	21,0301	60,505r	10,9931	20,0901	4/31	393	132,3901
Energy end use Total energy sector	2,630		21,830r	435r	4,820r	325	25r	50	30,110r
Transformation	,	-			,				•
	2,630	-	21,830r	305r	4,685r	-	-	50	29,500r
Electricity generation	2,130	-	-	290r	4,390r	-	-	50	6,865r
of which from stocks	60	-	-		200=	-	-	-	60
Heat Generation Petroleum refineries	20	-	-	15	290r	-	-	-	330r
	400	-	21,830r	-	-	-	-	-	21,830r
Solid fuel manufacture	480	-	-	-	-	-	-	-	480
of which iron & steel sector	435	-	-	130r	425-	325r	25	-	435 610 r
Other energy sector use	-	-	-		135r			-	
Oil & gas extraction	-	-	-	130r	- CE=	35r	-	-	165r
Petroleum refineries	-	-	-	-	65r	225r	25	-	315r
Coal extraction	-	-	-	-	70=	60r	-	-	60r
Other energy sector	400r	- 275-	-	- 57.020-	70r	- 26,565r	450-	- 	70r
Total non energy sector use		275r	-	57,930r	14,020r	,	450r	550r	100,190r
Industry	235r	205r	-	2,155r	2,035r	6,970r	305r	25r	11,925r
Iron & steel final use	95 140r	180r	-	70 2.085r	110r	120r	205-	- 25r	575r
Other industry	140r	25r	-	,	1,920r	6,850r	305r	25r	11,350r
Transport	-	-	-	54,055r	-	495r	-	480	55,030r
Air	-	-	-	4,475	-	400	-	-	4,475
Rail and national navigation	-	-	-	770r	-	490r	-	490	1,260r
Road	400	-	-	48,810r	44.000	-	4.45	480	49,295r
	160	70	-	1,720r	11,990r	19,100r	145r	45	33,235r
Other final users		70	-	1,150r	9,950r	12,540r	20r	45	23,935r
Domestic	160	. •							
Domestic Agriculture	160	-	-	105	50r	370r	-	-	525r
Domestic Agriculture Commercial and other services	-	- -	-	465	1,990r	6,195r	130r	-	8,780r
Domestic Agriculture	3,030r	275r	21,830r						

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Value balance of traded energy in 2006⁽¹⁾

									£million
	Coal	Manufactured	Crude	Petroleum	Natural	Electricity		Other	Total
		solid fuels	oil	products	gas		sold	fuels	
Supply		0.5	40.470	05.005					
Indigenous production	595r	85r	19,170r	25,625r	9,475r	7,760r	440r	155r	63,305r
Imports	2,140r	90	15,710r	8,315r	2,510r	420r	-	25r	29,220r
Exports	-30	-20	-13,545r	-8,015r	-1,315r	-105r	-	-	-23,035r
Marine bunkers	-	-	-	-600r	-	-	-	-	-600r
Stock change	-45	- 100	-95	-275r	-80r		- 440	-	-490r
Basic value of inland consumption	2,665r	160r	21,240r	25,050r	10,590r	8,075r	440r	180	68,400r
Tax and margins Distribution costs and margins	455r	110r		2 955,	0 275r	15 000r		10	28,700r
Electricity generation	210r	1101	-	3,855r 25r	8,275r	15,990r	-	10	2 6,700 1 235r
Solid fuel manufacture	125	-	-	231	-	-	-	-	125
of which iron & steel sector	115	-	-	-	-	-	-	-	115
Iron & steel final use	25	90r	-	30r	-	-	-	-	140r
Other industry	15r	901 15r	-	415r	-	-	-	-	445r
•	131	131	-	290r	-	-		-	290r
Air transport	-	-	-	290i 75r	-	-	-	-	2901 75r
Rail and national navigation Road transport	-	-	-	2,330r	-	-	-	10	2,340
•	- 00	- 10	-	,	-	-	-	-	,
Domestic Agriculture	80	10	-	245r 15	-	-	-	-	335r 15
8	-	-	-		-	-	-	-	
Commercial and other services	-	-	-	75r	445=	-	-	-	80r
Non energy use	-	-	-	350r	145r	- 540	-	405	500r
VAT and duties	5	5	-	30,435r	480r	540r	-	165	31,630r
Electricity generation	-	-	-	65r	-	-	-	-	65r
Iron & steel final use	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	225r	-	-	-	-	225r
Air transport	-	-	-	20	-	-	-	-	20
Rail and national navigation	-	-	-	165r	-	-	-	-	165r
Road transport	_	_	-	29,795r	-		-	160	29,955r
Domestic	5	5	-	75r	480r	540r	-	-	1,105r
Agriculture	-	-	-	10	-	-	-	-	10
Commercial and other services	_	-	-	85	-	-	-	-	85
Climate Change Levy	5	-	-	<u>-</u>	185	525	-		720
Total tax and margins	465r	115r	- 04 040	34,295r	8,940r	17,055r	- 440	175	61,050r
Market value of inland consumption	3,130r	275r	21,240r	59,345r	19,530r	25,130r	440r	355	129,450r
Energy end use	0.705		04.040-	470-	4 405-	005-	00-	40	00.045-
Total energy sector	2,725	-	21,240r	470r	4,425r	295r	20r	40	29,215r
Transformation	2,725	-	21,240r	340r	4,275r	-	-	40	28,615r
Electricity generation	2,150	-	-	325r	3,990r	-	-	40	6,505r
of which from stocks	35	-	-	-	-	-	-	-	35
Heat Generation	15	-	-	15	285r	-	-	-	315r
Petroleum refineries	-	-	21,240r	-	-	-	-	-	21,240r
Solid fuel manufacture	555	-	-	-	-	-	-	-	555
of which iron & steel sector	505	-	-	-		-	-	-	505
Other energy sector use	-	-	-	130r	155r	295r	20r	-	600r
Oil & gas extraction	-	-	-	130r	-	30r	-	-	160r
Petroleum refineries	-	-	-	-	65r	205r	20r	-	290r
Coal extraction	-	-	-	-	-	60r	-	-	60r
Other energy sector	-	-	-	-	85r		-	-	85r
Total non energy sector use	410r	275r	-	56,355r	14,955r	24,835r	420r	320r	97,565r
Industry	270r	200r	-	2,060r	2,695r	6,775r	275r	30	12,300r
Iron & steel final use	100	175r	-	65	160r		-	-	685r
Other industry	170r	25r	-	1,995r	2,535r		275r	30	11,615r
Transport	-	-	-	52,460r	-	460r	-	250	53,170r
Air	-	-	-	4,490r	-	-	-	-	4,490r
Rail and national navigation	-	-	-	825r	-	455r	-	-	1,280r
Road	-	-	-	47,150r	-	-	-	250	47,400r
Other final users	135	75	-	1,835r	12,265r	17,600r	145r	40	32,095r
Domestic	135r	75	-	1,260r	10,100r	11,340r	20r	40	22,965r
Agriculture	-	-	-	105	50r	340r	-	-	495r
Commercial and other services	5r	-	-	470	2,115r	5,920r	125r	-	8,640r
	3,130r	275r	21,240r	56,825r	19,385r	25,130r	440r	355	126,785r
Total value of energy end use Value of non energy end use	3,130r -	275r -	21,240r -	56,825r 2,520r	19,385r 145r	25,130r -	440r -	355	126,785r 2,665r

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Value balance of traded energy in 2005⁽¹⁾

									£million
	Coal	Manufactured	Crude	Petroleum	Natural	Electricity		Other	Total
		solid fuels	oil	products	gas		sold	fuels	
Supply					•				
Indigenous production	440r	75r	17,730r	22,315r	7,540r	5,165r	340r	90r	53,695r
Imports	1,880r	110	13,045r	5,940r	1,730r	440r	-	25r	23,175r
Exports	-40	-15	-11,715r	-6,835r	-735r	-100r	-	-	-19,445r
Marine bunkers	-	-	-	-420r	. -	-	-	-	-420r
Stock change	-80	-5	-80r	435r	15r			-	280r
Basic value of inland consumption	2,205r	160r	18,975r	21,430r	8,550r	5,505r	340r	115r	57,285r
Tax and margins	445	400		0.000	0.040	40.070		-	04.040
Distribution costs and margins	445r	100r	-	3,680r	6,840r	13,870r	-	5r	24,940r
Electricity generation	210r	-	-	25r	-	-	-	-	235r
Solid fuel manufacture	105	-	-	-	-	-	-	-	105
of which iron & steel sector	90	- 75-	-	-	-	-	-	-	90
Iron & steel final use	20	75r	-	20r	-	-	-	-	115r
Other industry	20r	15r	-	360r	-	-	-	-	390r
Air transport	-	-	-	260r	-	-	-	-	260r
Rail and national navigation	-	-	-	45r	-	-	-	-	45r
Road transport	-	-	-	2,275r	-	-	-	5r	2,280r
Domestic	95	10	-	270r	-	-	-	-	375r
Agriculture	-	-	-	20r	-	-	-	-	20r
Commercial and other services	5r	-	-	75r	-	-	-	-	75r
Non energy use	_	_	-	335r	115r	-	-		445r
VAT and duties	5	5	-	30,010r	390r	460r	-	75r	30,945r
Electricity generation	-	-	-	55r	-	-	-	-	55r
Iron & steel final use	-	-	-	-	-	-	-	-	-
Other industry	-	-	-	205r	-	-	-	-	205r
Air transport	-	-	-	20	-	-	-	-	20
Rail and national navigation	-	-	-	115	-	-	-	-	115
Road transport	-	-	-	29,465r	-	-	-	70r	29,535r
Domestic	5	5	-	60r	390r	460r	-	-	920r
Agriculture	-	-	-	15r	-	-	-	-	15r
Commercial and other services	-	-	-	80r	-	-	-	-	80r
Climate Change Levy	5	-	-	-	195	535	-	-	735
Total tax and margins	455r	100r	-	33,695r	7,425r	14,860r	-	80r	56,615r
Market value of inland consumption	2,660r	260r	18,975r	55,125r	15,975r	20,365r	340r	195r	113,900r
Energy end use									
Total energy sector	2,300	-	18,975r	430r	3,720r	230r	25r	35	25,720r
Transformation	2,300	-	18,975r	310r	3,590r	-	5	35	25,220r
Electricity generation	1,830	-	-	295r	3,360r	-	5	35	5,530r
of which from stocks	50r	-	-	<u>-</u>	-	-	-	-	50r
Heat Generation	15	-	-	15	230r	-	-	-	260r
Petroleum refineries	-	-	18,975r	-	-	-	-	-	18,975r
Solid fuel manufacture	455	-	-	-	-	-	-	-	455
of which iron & steel sector	405	-	-	-	-	-	-	-	405
Other energy sector use	-	-	-	120	130r	230r	20r	-	500r
Oil & gas extraction	-	-	-	120	-	20r	-	-	145r
Petroleum refineries	-	-	-	-	50r	165r	20r	-	235r
Coal extraction	-	-	-	-	-	45r	-	-	45r
Other energy sector	-	-	-	-	75r	-	-	-	75r
Total non energy sector use	360r	260r	-	52,345r	12,145r	20,135r	315r	160r	85,715r
Industry	210r	190r	-	1,760r	2,170r	5,060r	210r	20	9,620r
Iron & steel final use	80	165r	-	55	130r	115r	-	-	545r
Other industry	130r	25r	-	1,710r	2,045r	4,945r	210r	20	9,075r
Transport	-	-	-	48,970r	-	345r	-	105r	49,420r
Air	-	-	-	3,790r	-	-	-	-	3,790r
Rail and national navigation	-	-	-	560r	-	345r	-	-	900r
Road	-	-	-	44,620r	-	-	-	105r	44,725r
Other final users	150r	70	-	1,610r	9,970r	14,725r	110r	35r	26,675r
Domestic	145	70	-	1,050r	8,215r	9,665r	15r	35r	19,195r
Agriculture	-	-	-	115r	40r		-	-	430r
•	5		_	445	1,720r	4,785r	95r	_	7,050r
Commercial and other services	5	-		773	.,. =				
	2,660r	260r	18,975r	52,775r	15,860r	20,365r	340r	195r	111,435r
Total value of energy end use Value of non energy end use		260r -					340r -	195r -	111,435r 2,465r

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Value balance of traded energy in 2004⁽¹⁾

£million Manufactured Crude oil Petroleum Natural Electricity Heat Other Total solid fuels products sold fuels gas Supply Indigenous production 585 90 15,280 19,715 6,915 6,785 240 65 49,680 Imports 1,330 75 8.625 5,195 670 345 16.240 Exports -35 -15 -9,905 -6,565 -645 -150 -17,315 Marine bunkers -340 -340 Stock change -5 -5 -20 -65 -100 Basic value of inland consumption 1,875 150 13,980 17.940 6,935 6,980 240 65 48,170 Tax and margins Distribution costs and margins 385 50 2,045 6,335 8,935 17,750 Electricity generation 155 160 5 Solid fuel manufacture 70 70 of which iron & steel sector 65 65 Iron & steel final use 10 35 15 60 10 10 255 270 Other industry Air transport 80 80 Rail and national navigation 20 20 Road transport 1,380 1,380 140 5 100 245 Domestic Agriculture 5 5 Commercial and other services 30 30 Non energy use 160 95 255 VAT and duties 10 5 31,030 395 435 31,875 Electricity generation 15 15 Iron & steel final use Other industry 180 180 Air transport 20 20 Rail and national navigation 90 90 30.620 30.620 Road transport Domestic 10 5 395 435 890 45 Agriculture 5 5 Commercial and other services 50 50 Climate Change Levy 5 195 555 755 9,925 Total tax and margins 400 55 33,075 6,925 50,380 Market value of inland consumption 2,275 205 13,980 51,020 13,860 16,905 155 65 98,460 Energy end use 2,675 25 Total energy sector 1,945 13,980 125 170 18,925 **Transformation** 1,945 13,980 125 2,605 25 18,685 Electricity generation 1,615 115 2,590 25 4,345 of which from stocks 40 40 Heat Generation 15 10 15 40 Petroleum refineries 13,980 13,980 Solid fuel manufacture 320 320 of which iron & steel sector 285 285 Other energy sector use 70 170 240 Oil & gas extraction 20 20 Petroleum refineries 15 110 125 Coal extraction 40 40 Other energy sector 55 55 155 Total non energy sector use 325 205 48,850 11,085 16,735 40 77,395 Industry 120 120 1,485 1,480 3,255 75 15 6,550 Iron & steel final use 50 100 50 95 110 400 Other industry 70 20 1,435 1,385 3,150 75 15 6,150 **Transport** 46,215 260 46,475 2,785 2,785 Rail and national navigation 260 455 715 Road 42,975 42,975 Other final users 210 80 1,150 8,820 12,990 80 30 24,370 Domestic 205 80 805 6,900 8,895 10 30 18,535 Agriculture 65 30 230 325 Commercial and other services 280 1.290 3,865 70 5,505 Total value of energy end use 2,275 13,980 48,970 13,765 16,905 155 96,320 205 65 Value of non energy end use 2,045 2,140 205 13,980 13,860 16,905 Market value of inland consumption

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Value balance of traded energy in 2003⁽¹⁾

£million Manufactured Crude oil Petroleum Natural Electricity Heat Other Total solid fuels products sold fuels gas Supply Indigenous production 710 120 14,310 15,280 7,160 7,240 345 55 45,400 Imports 925 70 6,495 3,615 135 170 11,405 Exports -35 -15 -9,815 -4,950 -945 -180 -15,940 Marine bunkers -255 -255 Stock change 85 65 95 -45 Basic value of inland consumption 1,685 170 11,055 13,635 6,350 7,410 345 55 40,705 Tax and margins Distribution costs and margins 295 20 2,590 4,260 6,160 13,330 Electricity generation 80 10 90 Solid fuel manufacture 55 55 of which iron & steel sector 45 45 Iron & steel final use 10 5 5 20 10 270 285 Other industry 5 Air transport 110 110 Rail and national navigation 20 20 Road transport 1,660 1,660 145 5 Domestic 90 245 Agriculture 10 10 Commercial and other services 20 25 Non energy use 390 80 470 VAT and duties 10 5 25,940 300 365 26,620 Electricity generation 10 10 Iron & steel final use Other industry 185 185 Air transport 20 20 Rail and national navigation 90 90 25.545 25.545 Road transport Domestic 10 5 45 300 365 725 Agriculture 10 10 Commercial and other services 35 35 Climate Change Levy 5 195 620 820 <u>40</u>,765 Total tax and margins 25 28,530 7,145 4,755 Market value of inland consumption 1,995 190 11,055 42,165 11,105 14,560 335 55 81,465 Energy end use 2,300 Total energy sector 1,685 11,055 125 145 20 15,325 **Transformation** 1,685 11,055 125 2,225 20 15,105 Electricity generation 1.445 105 2,210 20 3.775 of which from stocks 35 35 25 Heat Generation 15 15 55 Petroleum refineries 11,055 11,055 Solid fuel manufacture 220 220 of which iron & steel sector 195 195 145 Other energy sector use 75 220 Oil & gas extraction 15 15 Petroleum refineries 20 95 115 Coal extraction 30 30 60 Other energy sector 60 335 Total non energy sector use 310 190 40,135 8,725 14,415 40 64,150 Industry 95 90 1,240 1,345 2,925 210 10 5,920 Iron & steel final use 30 70 35 85 100 320 Other industry 65 20 1.205 1,265 2,830 210 10 5.600 **Transport** 37,915 215 38,135 2,445 2,445 Rail and national navigation 215 635 420 Road 35,055 35,055 Other final users 215 105 975 7,380 11,270 125 30 20,100 Domestic 215 105 730 6,260 7,660 15,000 Agriculture 70 30 195 295 Commercial and other services 175 1.090 3,420 125 4,805 Total value of energy end use 1,995 190 40,260 11,025 14,560 335 79,480 11,055 55 Value of non energy end use 1,905 80 1,985 190 11,055 14,560 Market value of inland consumption

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Value balance of traded energy in 2002⁽¹⁾

£million Manufactured Crude oil Petroleum Natural Electricity Coal Heat Other Total solid fuels products gas sold fuels Supply Indigenous production 900 180 14.580 12,800 6,390 7,535 405 50 42,840 Imports 850 20 6,425 3.165 260 190 10.905 **Exports** -30 -25 -10,510 -4,220 -850 -15,640 Marine bunkers -245 -245 Stock change -10 190 -5 180 Basic value of inland consumption 1,710 175 10,495 11,680 5,795 7,725 405 50 38,040 Tax and margins Distribution costs and margins 325 25 1,930 4,275 5,995 12,550 Electricity generation 50 5 55 Solid fuel manufacture 5 5 5 5 of which iron & steel sector Iron & steel final use 5 5 10 Other industry 10 10 235 260 Air transport 50 50 Rail and national navigation 5 5 Road transport 1.190 1.190 250 10 85 345 Domestic Agriculture 15 15 Commercial and other services 30 35 305 85 390 Non energy use 5 26,785 VAT and duties 15 290 360 26.115 Electricity generation 15 15 Iron & steel final use 185 185 Other industry Air transport 20 20 Rail and national navigation 45 45 Road transport 25,735 25,735 Domestic 15 5 40 290 360 710 Agriculture 20 20 Commercial and other services 50 50 5 625 835 Climate Change Levy 205 Total tax and margins 345 30 28,045 4,770 6,980 40,170 Market value of inland consumption 405 50 2.055 205 10.495 39.725 10.570 14.705 78,210 Energy end use Total energy sector 1,640 10,495 130 2,090 150 15 14,520 **Transformation** 1,640 10,495 130 2.020 15 14,300 Electricity generation 1.365 100 2.005 15 3.485 of which from stocks 35 35 Heat Generation 30 35 15 75 Petroleum refineries 10,495 10,495 Solid fuel manufacture 245 245 of which iron & steel sector 210 210 Other energy sector use 70 150 220 Oil & gas extraction 15 15 20 Petroleum refineries 100 120 Coal extraction 35 35 50 50 Other energy sector Total non energy sector use 410 205 38,065 8,395 14,550 400 40 62,075 2,995 Industry 70 85 1,065 1.280 255 10 5.760 Iron & steel final use 30 55 35 65 85 270 255 10 Other industry 40 30 1,030 1,215 2,905 5,495 **Transport** 36,005 220 36,005 1,795 1,795 Rail and national navigation 220 410 190 34,020 34,020 Road Other final users 120 7,110 11,340 145 345 995 30 20,090 Domestic 345 120 645 6,090 7,510 5 30 14,740 Agriculture 105 30 215 350 140 Commercial and other services 245 995 3,615 5,000 2,055 10,495 38,200 10,485 405 50 76,600 Total value of energy end use 205 14,705 Value of non energy end use 1.525 85 1.610 10,495 39,725 10,570 405 78,210 Market value of inland consumption 205 14.705

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Value balance of traded energy in 2001⁽¹⁾

£million Coal Manufactured Crude Petroleum Natural Electricity Heat Other Total solid fuels products gas sold fuels oil Supply Indigenous production 965 190 14,915 13,200 6,985 7,805 405 55 44,520 185 180 1,180 6,235 3,555 11,345 **Imports** 10 **Exports** -30 -25 -10,845 -3,770-745 -15,415 Marine bunkers -325 -325 Stock change -355 -110 -130 -115 Basic value of inland consumption 12,545 39,770 2,005 180 10,175 6,425 7,980 405 55 Tax and margins Distribution costs and margins 410 30 1,825 3,755 6,450 12,475 Electricity generation 85 5 90 Solid fuel manufacture 10 10 of which iron & steel sector 5 5 5 5 10 Iron & steel final use Other industry 10 15 250 275 Air transport 125 125 Rail and national navigation 15 15 Road transport 935 935 Domestic 305 10 125 440 20 Agriculture 20 Commercial and other services 65 65 Non energy use 280 90 375 5 **VAT and duties** 20 26,365 275 360 27,025 20 Electricity generation 20 Iron & steel final use 10 10 Other industry 150 150 Air transport 20 20 Rail and national navigation 45 45 26,010 Road transport 26.010 Domestic 20 5 275 360 700 40 Agriculture 15 15 Commercial and other services 45 50 Climate Change Levy 120 400 520 Total tax and margins 430 35 28,190 7,210 40.015 4.150 55 Market value of inland consumption 2,435 215 10,175 40,740 10,575 15,195 405 79,790 Energy end use Total energy sector 1,910 205 2.170 15 14,645 10,175 175 **Transformation** 205 2,090 14,390 1,910 10,175 15 Electricity generation 1,595 125 2,070 15 3,805 of which from stocks 40 40 Heat Generation 25 80 15 120 Petroleum refineries 10,175 10.175 Solid fuel manufacture 290 290 of which iron & steel sector 245 245 Other energy sector use 80 175 255 Oil & gas extraction 25 25 Petroleum refineries 30 110 140 40 Coal extraction 40 55 Other energy sector 55 525 215 39,145 15,020 40 Total non energy sector use 8,310 405 63,660 Industry 95 105 1,235 1,470 3,145 175 15 6,235 Iron & steel final use 30 505 65 50 165 195 Other industry 65 40 1,180 1,300 2,950 175 15 5,730 **Transport** 36,700 240 36.940 Air 2,140 2,140 Rail and national navigation 240 240 485 Road 34,320 34,320 Other final users 430 105 1,210 6,845 11,630 230 30 20,485 **Domestic** 430 105 5,735 5 30 14,560 715 7.540 380 125 25 225 Commercial and other services 370 1,085 225 5,545 3,865 Total value of energy end use 39,350 78,305 2,435 215 10,175 10,485 15,195 405 55 1,390 1,480 Value of non energy end use 79,790 Market value of inland consumption 215 10,175 10,575 15,195 405

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Value balance of traded energy in 2000⁽¹⁾

	Coal	Manufactured	Crude	Petroleum	Natural	Electricity	Heat		£million Total
	3041	solid fuels	oil	products	gas	,	Sold	fuels	. • • • •
Supply				-					
Indigenous production	970	205	17,175	15,565	5,890	7,840	440	60	48,145
Imports	665	25	6,875	3,250	135	375	-	-	11,320
Exports	-30	-30	-12,215	-4,435	-575	-	-	-	-17,290
Marine bunkers	-	-	-	-285	-	-	-	-	-285
Stock change	105	5	165	-35	-5	-	-	-	235
Basic value of inland consumption	1,710	205	12,000	14,065	5,440	8,215	440	60	42,125
Tax and margins	225	0.5		4.040	0.040	7.455			10 5 10
Distribution costs and margins	295	35	-	1,910	3,840	7,455	-	-	13,540
Electricity generation	20	=	-	10	-	-	-	-	30
Solid fuel manufacture	40	-	-	-	-	-	-	-	40
of which iron & steel sector	35	-	-	-	-	-	-	-	35
Iron & steel final use	-	5	-	10	-	-	-	-	20
Other industry	5	15	-	240	-	-	-	-	260
Air transport	-	=	-	215 25	-	-	-	-	215 25
Rail and national navigation	-	-	-		-	-	-	-	
Road transport		-	-	875	-	-	-		875
Domestic	225	15	-	130 25	-	-	-	-	365
Agriculture Commercial and other services	-	-	-		-	-	-	-	25
	-	-	-	60	- 0 <i>E</i>	-	-	-	60
Non energy use	- 4E	-	-	330	85 260	255	-	-	415
VAT and duties	15	5	-	26,675	260	355	-	-	27,315
Electricity generation Iron & steel final use	-	-	-	25 5	-	-	-	-	25
	-	-	-	_	-	-	-	-	5 115
Other industry	-	-	-	115 20	-	-	-	-	115 20
Air transport	-	-	-	50 50	-	-	-		50 50
Rail and national navigation	-	-	-		-	-	-	-	
Road transport	- 1 <i>E</i>	<u>-</u> 5	-	26,345	-	- 255	-	-	26,345
Domestic Agriculture	15	5	-	40 20	260	355	-	-	680
Agriculture Commercial and other services	-	- -	-		-	-	-	-	20 55
	310	40	-	55 28,590	4,105	- 7 910	-	-	40,855
Total tax and margins Market value of inland consumption	2,020	245	12,000	42,650	9,545	7,810 16,025	440	60	82,980
Energy end use	2,020	243	12,000	42,030	9,343	10,025	440	00	02,900
Total energy sector	1,640	_	12,000	235	2,015	165		15	16,070
Transformation	1,640	_	12,000	230	1,945	103	-	15	15,830
Electricity generation	1,315	_	12,000	140	1,943	_	_	10	3,400
of which from stocks	30			140	1,330	_	_	-	30
Heat Generation	20	_	_	90	15	_	_	5	125
Petroleum refineries	-		12,000	-	-	_	_	-	12,000
Solid fuel manufacture	305	-	12,000	-	-	-	-	-	305
of which iron & steel sector	270	-	-	-	-	-	-	-	270
Other energy sector use	210			10	70	165	_	-	240
Oil & gas extraction	_	_	_	-	-	20	_	-	20
Petroleum refineries	_	_	_	_	20	100	_	_	125
Coal extraction					-	45	_	-	45
Other energy sector		_		10	45	-		_	55
Total non energy sector use	375	245	_	40,740	7,445	15,860	440	45	65,155
Industry	40	120	-	1,145	1,115	3,435	190	15	6,065
Iron & steel final use	15	75	-	70	1,113	125	190	-	420
Other industry	25	75 45	-	1,080	980	3,310	190	- 15	5,645
Transport	2 5	45	-	38,395	900	285	190	-	38,685
Air	-	<u>-</u>	-	2,485	-	203	-	-	2,485
Rail and national navigation	_	- -	_	280	-	285	_	-	565
Road	_	- -	-	35,635	-	205	-	_	35,635
Other final users	335	130	-	1,200	6,330	12,135	245	30	20,405
	335	130	<u>-</u>	735	5,485	7,475	10	30	14,195
Liomestic	555	130	=						370
Domestic Agriculture	_		_					_	
Agriculture	- 5	-	<u>-</u>	130 335	15 835	230 4 435	- 240	-	
Agriculture Commercial and other services	- 5	245	12 000	335	835	4,435	240	-	5,840
Agriculture	5 2,020	245 -	12,000						

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Value balance of traded energy in 1999⁽¹⁾

	Coal	Manufactured	Crude	Petroleum	Natural	Electricity	Heat	Other	Total
		solid fuels	oil	products	gas	,	Sold	fuels	
Supply									
Indigenous production	1,170	215	10,910	11,125	4,915	7,655	435	65	36,490
Imports	565	20	3,280	1,960	25	395		-	6,250
Exports	-40	-20	-7,155	-2,855	-225	-		-	-10,295
Marine bunkers	-	-	-	-190	-	-		-	-190
Stock change	-50	-	-30	60	5	-		-	-15
Basic value of inland consumption	1,650	215	7,005	10,105	4,720	8,050	435	65	32,245
Tax and margins	205	20		4 255	A 4EE	9.055			4.4.00E
Distribution costs and margins	295	30	-	1,255	4,455	8,055		-	14,095
Electricity generation Solid fuel manufacture	25 10	-	-	-	-	-		-	25 10
of which iron & steel sector	5	- -	_	_	_	_		_	5
Iron & steel final use	-	5			_	_			5
Other industry	15	15		35	_	_			65
Air transport	-	-	_	40	_	_		_	40
Rail and national navigation	_	_	_		_	_		_	40
Road transport	-	- -	-	765	-	-		-	765
Domestic	240	15	-	703 85	-	-		-	340
Agriculture	-	-	-	10	-	-		-	10
Commercial and other services	5	- -	_	30	_	-		_	35
Non energy use	-	_	_	285	70	_		_	355
VAT and duties	20	5	_	29,960	265	360		_	30,620
Electricity generation		-	_	5		-		_	25
Iron & steel final use	_	_	_	10	_	_		_	10
Other industry	_	_	_	110	_	_		_	110
Air transport	_	_	_	15	_	_		_	15
Rail and national navigation	_	_	_	50	_	_		_	50
Road transport	_	_	_	29,640	_	_		_	29,640
Domestic	20	5	_	30	265	360		_	685
Agriculture		-	-	25		-		_	25
Commercial and other services	-	=	-	60	_	-		_	60
Total tax and margins	315	40	-	31,215	4,725	8,415		_	44,710
Market value of inland consumption	1,965	250	7,005	41,320	9,440	16,470	435	65	76,955
Energy end use									
Total energy sector	1,460	-	7,005	180	2,020	140		15	10,820
Transformation	1,460	-	7,005	170	1,950	-		15	10,600
Electricity generation	1,170	-	-	110	1,935	-		15	3,230
of which from stocks	30	-	-	-	-	-		-	30
Heat Generation	20	-	-	60	15	-	-	-	95
Petroleum refineries	-	-	7,005	-	-	-		-	7,005
Solid fuel manufacture	270	-	-	-	-	-		-	270
of which iron & steel sector	225	-	-	-		-		-	225
Other energy sector use	-	-	-	5	70	140		-	220
Oil & gas extraction	-	-	-	-	-	15		-	15
Petroleum refineries	-	-	-	-	25	80		-	105
Coal extraction	-	-	-	-	-	45		-	45
Other energy sector		-	-	5	45	-			50
Total non energy sector use	505	250	-	39,640	7,355	16,330	435	55	64,570
Industry	85	120	-	735	970	3,730	190	25	5,855
Iron & steel final use	15	75 45	-	45	115	225	400	-	480
Other industry	70	45	-	690	855	3,505	190	25	5,375
Transport	-	-	-	38,080	-	305		-	38,385
Air	-	-	-	1,210	-	205		-	1,210
Rail and national navigation	-	-	-	190	-	305		-	500
Road	400	-	-	36,680		40.000	0.45	-	36,680
Other final users	420	135	-	825	6,390	12,290	245	30	20,330
Domestic Agriculture	405	135	-	465	5,610	7,600	10	30	14,255
Agriculture	40	-	-	100	10	220	240	-	335
Commercial and other services	10	-	7 005	255	770	4,465	240	- CE	5,740
Total value of energy end use	1,965	250	7,005	39,820 1,500	9,375 65	16,470	435	65 -	75,390 1,565
Value of non energy end use	-								

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Value balance of traded energy in 1998⁽¹⁾

£ million Manufactured Crude Petroleum Natural Electricity Other Total solid fuels products fuels gas Supply Indigenous production 1,315 160 8,080 8,880 5,270 7,550 75 31,330 1,410 375 Imports 45 2,275 4,785 640 45 **Exports** -45 -25 -5,085 -2,300-80 -7,530 Marine bunkers -230 -230 40 5 -35 Stock change -5 Basic value of inland consumption 1,950 190 5,235 7,755 5,230 7,925 75 28,360 Tax and margins Distribution costs and margins 330 80 1,875 4,255 8,225 14,765 Electricity generation 35 35 Solid fuel manufacture 35 35 of which iron & steel sector 35 35 10 Iron & steel final use 10 Other industry 15 20 60 95 Air transport 85 85 Rail and national navigation 15 15 Road transport 1,355 1,355 Domestic 225 50 120 395 30 Agriculture 25 Commercial and other services 10 70 80 Non energy use 145 65 215 5 **VAT and duties** 20 24,460 285 360 25,135 25 25 Electricity generation Iron & steel final use 10 10 Other industry 120 120 Air transport 10 10 Rail and national navigation 50 50 Road transport 24.130 24.130 Domestic 20 5 30 285 360 705 Agriculture 25 25 Commercial and other services 65 65 Total tax and margins 345 85 26,335 4,540 8,590 39,900 Market value of inland consumption 68,260 2,300 275 5,235 34,090 9,770 16,515 75 Energy end use 1,785 1,820 Total energy sector 5,235 125 180 10 9,150 5,235 **Transformation** 1,755 10 1,785 115 8.900 Electricity generation 1,445 1,755 3,325 115 10 of which from stocks 35 35 Petroleum refineries 5,235 5,235 Solid fuel manufacture 340 340 of which iron & steel sector 305 305 Other energy sector use 5 65 180 250 Oil & gas extraction 20 20 Petroleum refineries 25 115 140 Coal extraction 45 50 5 40 Other energy sector 45 Total non energy sector use 515 275 32,555 7,885 16,335 70 57,635 105 Industry 135 715 990 3,535 40 5,520 Iron & steel final use 20 80 45 110 220 475 Other industry 85 55 670 880 3,320 40 5,045 **Transport** 30.965 300 31.265 965 965 Rail and national navigation 300 190 495 Road 29,810 29,810 Other final users 410 140 875 6,900 12,495 30 20,845 14,625 Domestic 385 140 465 6,015 7,595 30 Agriculture 115 10 230 355 Commercial and other services 5,870 25 295 875 4,670 Total value of energy end use 2,300 275 5,235 32,680 9,705 16,515 75 66,785 Value of non energy end use 1,410 1,475 16,515 68,260 Market value of inland consumption 275 34,090 9.770

⁽¹⁾ For further information see paragraphs 1.39 to 1.45.

Commodity balances 2009Coal

				nd tonnes
	Steam coal	Coking coal	Anthracite	Total
Supply				
Production	15,862	246	1,266	17,374
Other sources	430	-	70	500
Imports	32,794	5,264	109	38,167
Exports	-526	-6	-115	-646
Marine bunkers	-	=	-	-
Stock change (1)	-6,797	+259	-70	-6,608
Transfers	-	-	-	-
Total supply	41,763	5,763	1,260	48,786
Statistical difference (2)	15	-24	-26	-35
Total demand	41,748	5,787	1,285	48,821
Transformation	39,574	5,787	930	46,290
Electricity generation	39,081	-	600	39,681
Major power producers	37,662	-	600	38,262
Autogenerators	1,419	-	-	1,419
Heat generation	482	-	-	482
Petroleum refineries	-	-	-	-
Coke manufacture	-	4,936	-	4,936
Blast furnaces	-	852	-	852
Patent fuel manufacture and low temperature carbonisation	11	-	330	341
Energy industry use	5	-	-	5
Electricity generation	_	-	-	=
Oil and gas extraction	_	-	-	_
Petroleum refineries	_	-	-	_
Coal extraction	5	-	-	5
Coke manufacture	-	-	-	-
Blast furnaces	_	-	-	_
Patent fuel manufacture	_	-	-	_
Pumped storage	_	_	-	_
Other	_	-	-	_
Losses	_	_	_	_
Final consumption	2,170		356	2,525
Industry	1,600		142	1,742
Unclassified	1,000	_	-	1,742
Iron and steel	2	-	58	60
Non-ferrous metals	28	-	30	28
	1,076	-	1	1,077
Mineral products Chemicals	77	-	'	77
		-	=	
Mechanical engineering etc	14	-	-	14
Electrical engineering etc	5	-	-	5
Vehicles	46	-	-	46
Food, beverages etc	37	-	11	48
Textiles, leather, etc	69	-	-	69
Paper, printing etc	124	-	- 70	124
Other industries	119	-	72	191
Construction	4	-	-	4
Transport	19	-	-	19
Air D. II (2)	-	-	-	-
Rail (3)	19	-	=	19
Road	-	=	=	=
National navigation	=	=	=	=
Pipelines		-	-	<u>-</u>
Other	551	-	214	765
Domestic	475	-	214	689
Public administration	24	-	-	24
Commercial	49	=	-	49
Agriculture	-	=	-	-
Miscellaneous	3	-	-	3
Non energy use	-	-	-	-

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Total supply minus total demand.

⁽³⁾ Estimate revised following research carried out into heritage railways.

Commodity balances 2008Coal

				ind tonnes
	Steam coal	Coking coal	Anthracite	Total
Supply				
Production	16,010	307	1,287	17,604
Other sources	368	=	81	449
Imports	37,382	6,349	144	43,875
Exports	-357	-139	-104	-599
Marine bunkers	-	=	-	-
Stock change (1)	-3,473	+414	-51	-3,110
Transfers	-	-	-	-
Total supply	49,930	6,931	1,358	58,219
Statistical difference (2)	+82	-114	-134	-166
Total demand	49,849	7,045	1,492	58,385
Transformation	47,498	7,045	1,165	55,707
Electricity generation	46,990	-	817	47,808
Major power producers	45,435	-	817	46,252
Autogenerators	1,555	-	-	1,555
Heat generation	503	-	-	503
Petroleum refineries	-	-	-	-
Coke manufacture	-	5,875	-	5,875
Blast furnaces	-	1,170	-	1,170
Patent fuel manufacture and low temperature carbonisation	5	-	347	352
Energy industry use	5	-	-	5
Electricity generation	_	-	=	-
Oil and gas extraction	_	-	_	_
Petroleum refineries	_	-	_	_
Coal extraction	5	-	_	5
Coke manufacture	-	-	_	-
Blast furnaces	_	-	_	_
Patent fuel manufacture	_	-	-	_
Pumped storage	_	_	-	_
Other	_	-	-	_
Losses	_	_	_	_
Final consumption	2,346		327	2,672
Industry	1,779		162	1,940
Unclassified	1,773		-	1,340
Iron and steel	2	_	67	69
Non-ferrous metals	33		-	33
Mineral products	1,149	_	1	1,150
Chemicals	102		' -	1,130
Mechanical engineering etc	14	-	-	102
Electrical engineering etc	6	_	_	6
Vehicles	49	-	-	49
	49 27	-	- 11	_
Food, beverages etc	27 76	-	11	39 76
Textiles, leather, etc	149	-	-	149
Paper, printing etc Other industries	129	-	- 00	212
		-	82	
Construction	43	-	-	43
Transport	19	-	-	19
Air D. II (2)	-	-	-	-
Rail (3)	19	-	-	19
Road	-	=	=	-
National navigation	-	-	-	-
Pipelines		-	-	
Other	548	-	165	713
Domestic	520	-	164	683
Public administration	13	-	-	13
Commercial	10	=	-	10
Agriculture	5	=	-	5
Miscellaneous	0	-	1	1
Non energy use	-	-	-	-

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Total supply minus total demand.

⁽³⁾ Estimate revised following research carried out into heritage railways.

Commodity balances 2007Coal

	C40 1	Calsiana		nd tonnes
	Steam coal	Coking coal	Anthracite	Tota
Supply				
Production		266		16,540
Other sources				467
Imports	35,746	7,481	137	43,364
Exports	-428	-13	-103	-544
Marine bunkers	-	-	-	
Stock change (1)		-533		+3,076
Transfers	-	-	-	
Total supply		7,202		62,903
Statistical difference (2)	••	+27		-125
Total demand	54,609	7,174	1,246	63,029
Transformation	52,279	7,174	981	60,434
Electricity generation	51,795	-	716	52,511
Major power producers	50,315	-	716	51,031
Autogenerators	1,480	-	-	1,480
Heat generation	485	-	-	485
Petroleum refineries	-	-	-	-
Coke manufacture	-	5,932	-	5,932
Blast furnaces	=	1,242	-	1,242
Patent fuel manufacture and low temperature carbonisation	_	, -	265	265
Energy industry use	4	-	1	5
Electricity generation		_	-	_
Oil and gas extraction	_	_		_
Petroleum refineries	-	-	-	-
Coal extraction	4	=	1	5
	4	=	'	5
Coke manufacture	-	-	-	-
Blast furnaces	-	-	-	-
Patent fuel manufacture	-	-	-	-
Pumped storage	-	-	-	-
Other	-	-	-	-
Losses	-	-	-	-
Final consumption	2,325	-	264	2,590
Industry	1,820	-	76	1,896
Unclassified	=	=	=	-
Iron and steel		=		75
Non-ferrous metals		-		36
Mineral products		-		1,150
Chemicals		=		119
Mechanical engineering etc		=		10
Electrical engineering etc		-		6
Vehicles		-		49
Food, beverages etc		-		34
Textiles, leather, etc		=		74
Paper, printing etc		_		144
Other industries	-	_		200
Construction		-		
Transport	 19	_	-	19
Air	-	_		
Rail (3)	19			19
Road	19	-	-	19
	-	=	-	-
National navigation	-	-	-	-
Pipelines	=	-	-	-
Other		-		675
Domestic	462	-	186	648
Public administration	••	-	••	14
Commercial		-		6
Agriculture		-		4
Miscellaneous	,	<u> </u>	<u></u>	2
Non energy use		-	-	

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Total supply minus total demand.

⁽³⁾ Estimate revised following research carried out into heritage railways.

Commodity balances 2006Coal

	The			ousand tonnes	
	Steam coal	Coking coal	Anthracite	Total	
Supply					
Production		266	••	18,079	
Other sources		-		438	
Imports	43,609	6,774	145	50,528	
Exports	-349	-1	-94	-443	
Marine bunkers	-	-	-	-	
Stock change (1)		+4		-1,262	
Transfers	_	_	_	-	
Total supply		7,044		67,340	
Statistical difference (2)		-6		-254	
Total demand	59,024	7,049	1,520	67,594	
Transformation	56,907	7,049	1,264r	65,220	
Electricity generation	56,450	7,043	988	57,438	
	·	-	988r		
Major power producers	54,938	-	9001	55,926	
Autogenerators	1,511	-	-	1,511	
Heat generation	457	-	-	457	
Petroleum refineries	-		-		
Coke manufacture	-	5,929	-	5,929	
Blast furnaces	-	1,121	-	1,121	
Patent fuel manufacture and low temperature carbonisation	-	-	276	276	
Energy industry use	3	-	1	4	
Electricity generation	-	-	-	-	
Oil and gas extraction	-	-	-	-	
Petroleum refineries	=	-	=	=	
Coal extraction	3	-	1	4	
Coke manufacture	-	-	-	-	
Blast furnaces	-	-	-	-	
Patent fuel manufacture	=	_	-	-	
Pumped storage	_	_	_	_	
Other	_	_	_	_	
Losses	_	_	_	_	
Final consumption	2,115		256	2,370	
Industry	1,712	<u>-</u>	44	1,756	
	1,712	-	44	1,750	
Unclassified	-	-	-	-	
Iron and steel		-		1	
Non-ferrous metals	••	-		62	
Mineral products		-		1,047	
Chemicals		-		131	
Mechanical engineering etc	••	-		12	
Electrical engineering etc		-		6	
Vehicles		-		53	
Food, beverages etc		-		25	
Textiles, leather, etc		-		70	
Paper, printing etc		-		141	
Other industries		-		208	
Construction		_	-	_	
Transport	19	_	_	19	
Air	<u>-</u>	_	_	_	
Rail (3)	19	_	_	19	
Road	-	-	_	-	
National navigation		-	_ _	_	
Pipelines	-	-	-	-	
Other	-	-	-	596	
		-	 212		
Domestic Public administration	349	-		561	
Public administration		-		19	
Commercial		=		6	
Agriculture		-		5	
Miscellaneous		-		5	
Non energy use	-	-	-	-	

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Total supply minus total demand.

⁽³⁾ Estimate revised following research carried out into heritage railways.

Commodity balances 2005Coal

	Thou			Thousand tonnes
	Steam coal	Coking coal	Anthracite	Total
Supply				
Production		274	**	20,008
Other sources		-		490
Imports	37,230	6,551	187	43,968
Exports	-364	-3	-169	-536
Marine bunkers	-	-	-	-
Stock change (1)		-253	**	-2,151
Transfers	-	-	-	-
Total supply		6,570	**	61,780
Statistical difference (2)		-39		-72
Total demand	53,343r	6,609	1,900	61,852
Transformation	51,225	6,609	1,558	59,392
Electricity generation	50,766	-	1,292	52,058
Major power producers	49,291	-	1,292	50,582
Autogenerators	1,476	=	, -	1,476
Heat generation	459	=	-	459
Petroleum refineries	-	-	-	-
Coke manufacture	-	5,570	-	5,570
Blast furnaces	_	1,039	-	1,039
Patent fuel manufacture and low temperature carbonisation	_	-	266	266
Energy industry use	5		1	6
Electricity generation	-	-	- -	-
Oil and gas extraction	_	-	-	_
Petroleum refineries	_	-	-	_
Coal extraction	5	_	1	6
Coke manufacture	-	_	' -	-
Blast furnaces	_	_	_	_
Patent fuel manufacture	_	_	_	_
Pumped storage	_	_	_	_
Other	_	_	_	_
Losses	_		_	
	2 11 1		341	2,455
Final consumption	2,114			
Industry	1,756	-	25	1,781
Unclassified	-	-	-	-
Iron and steel	-	-	-	-
Non-ferrous metals		-		41
Mineral products		-		1,120
Chemicals		-		132
Mechanical engineering etc		-		12
Electrical engineering etc		-		5
Vehicles		-		55
Food, beverages etc		-	••	26
Textiles, leather, etc		-	••	71
Paper, printing etc		-		142
Other industries		-		178
Construction	-	-	-	-
Transport	4	-	-	4
Air	=	-	=	-
Rail	4	-	=	4
Road	-	=	=	=
National navigation	-	-	-	-
Pipelines	-	-	-	-
Other		-		669
Domestic	298	-	316	614
Public administration		-		38
Commercial		-		6
Agriculture		-		9
Miscellaneous		<u> </u>	<u>. </u>	2
Non energy use	-	-	-	

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Total supply minus total demand.

Commodity balances 2004 Coal

	C40.0 1	Calsing		nd tonnes
	Steam coal	Coking coal	Anthracite	Total
Supply				
Production		352		24,535
Other sources		<u>-</u>		561
Imports	29,614	6,345	194	36,153
Exports	-440	-9	-172	-622
Marine bunkers	=	-	-	-
Stock change (1)	••	-206	••	-60
Transfers	-		-	-
Total supply	•••	6,482		60,567
Statistical difference (2)		+101		+117
Total demand	52,159	6,382	1,910	60,451
Transformation	49,934	6,382	1,310	57,626
Electricity generation	49,461	-	983	50,444
Major power producers	47,985	-	983	48,968
Autogenerators	1,476	-	=	1,476
Heat generation	473	-	=	473
Petroleum refineries	=	-	=	-
Coke manufacture	=	5,487	=	5,487
Blast furnaces	=	895	=	895
Patent fuel manufacture and low temperature carbonisation	-	-	327	327
Energy industry use	7	-	1	8
Electricity generation	-	-	-	-
Oil and gas extraction	-	-	-	-
Petroleum refineries	-	-	-	-
Coal extraction	7	-	1	8
Coke manufacture	=	-	-	-
Blast furnaces	=	-	-	-
Patent fuel manufacture	=	-	-	-
Pumped storage	-	-	-	-
Other	-	-	-	-
Losses	-	-	=	-
Final consumption	2,217	-	599	2,816
Industry	1,815	-	33	1,848
Unclassified	-	-	-	-
Iron and steel	-	-	-	-
Non-ferrous metals	••	-		12
Mineral products	••	-		1,127
Chemicals		-		148
Mechanical engineering etc	••	-		13
Electrical engineering etc	••	-		5
Vehicles	••	-		80r
Food, beverages etc		-		38
Textiles, leather, etc		-		82
Paper, printing etc	••	-		141
Other industries		-		203
Construction	-	-	-	-
Transport	-	-	-	-
Air	-	-	-	-
Rail	-	-	-	-
Road	-	-	-	-
National navigation	-	-	=	-
Pipelines	-	-	-	-
Other		_		968
Domestic	375	-	566	941
Public administration		_		13
Commercial		_		5
Agriculture	••	_		8
Miscellaneous		_		2

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Total supply minus total demand.

Commodity balances 2003 Coal

Supply Production		01	0.11		nd tonnes
Production		Steam coal	Coking coal	Anthracite	Total
Other sources Imports 25,098 6,474 319 31,88 Exports -359 -2 -181 -56 Auguste Scroot Scroot Analog (1) -56 -181 -56 Auguste Scroot Analog (1) -56 -181 -56 Auguste Scroot Analog (1) -56 -182 -32 -181 -56 -32 -181 -56 -56 -182 -56 -32 -32 -181 -56 -56 -182 -56 -56 -182 -56 -182					
Imports 25,098			373		27,759
Exports			<u>-</u>		520
Marine bunkers - +62 +3,25 Total supply 6,997 6,287 Statistical difference (2) - +256 -15 Total demand 54,314 6,611 2,099 63,07 Total demand 54,314 6,611 2,099 63,07 Transformation 52,073 6,611 1,409 60,06 Electricity generation 51,451 -1,1013 50,88 Aluger person 1,568 - 1,013 50,88 Autogenerators 1,568 - 1,013 50,88 Autogenerators 622 - - 6,57 Petroleum refineries - 5,729 - 5,72 Blast furnaces - 882 - 396 38 Energy industry use 5 - 1 1 Electricity generation - - - - 1 Ol and gas extraction - - - - - -	•	·			31,891
Stock change (1)	·	-359	-2	_	-543
Transfers		-	-	-	-
Total supply			+62		+3,237
Statistical difference (2)		-	-	-	<u> </u>
Total demand					62,865
Transformation	Statistical difference (2)				-158
Electricity generation				2,099	63,024
Major power producers	Transformation	52,073	6,611	1,409	60,093
Autogenerators	Electricity generation	51,451	-	1,013	52,464
Heat generation	Major power producers	49,883	=	1,013	50,896
Petroleum refineries	Autogenerators	1,568	-	-	1,568
Petroleum refineries			-	-	622
Blast furnaces		-	-	-	-
Blast furnaces	Coke manufacture	-	5,729	-	5,729
Patent fuel manufacture and low temperature carbonisation - 396 38 Energy Industry use 5 - 1 Electricity generation - - - Oil and gas extraction - - - Petroleum refineries - - - Coal extraction 5 - 1 Coke manufacture - - - Blast furnaces - - - Patent fuel manufacture - - - Pumped storage - - - Other - - - - Pumped storage - - - - Other - - - - Understances - - - - - Industry 1,785 - 72 1,85 Unclassified - - - - - Unclassified - - -		=	•	-	882
Energy industry use 5 1 Electricity generation - - 01 and gas extraction - - Petroleum refineries - - Coal extraction 5 - 1 Coke manufacture - - - Blast furnaces - - - Patent fuel manufacture - - - Pumped storage - - - Other - - - Losses - - - Other - - - Losses - - - Final consumption 2,235 - 689 2,92 Industry 1,785 - 72 1,88 Unclassified - - - - Inclusities - - - - - Unclassified - - - - - - -	Patent fuel manufacture and low temperature carbonisation	_		396	396
Electricity generation Oil and gas extraction Petroleum refineries		5	-		6
Oil and gas extraction -		_	_		-
Petroleum refineries		_	_	_	_
Coal extraction 5 - 1 Coke manufacture - - - Blast furnaces - - - Patent fuel manufacture - - - Pumped storage - - - Other - - - Losses - - - Final consumption 2,235 - 689 2,92 Industry 1,785 - 72 1,85 Unclassified - - - - - 1,85 Unclassified -		_	_	_	_
Coke manufacture -		- 5	-	1	6
Blast furnaces -		3	-	'	0
Patent fuel manufacture -		-	-	-	-
Pumped storage -		-	-	-	-
Other - <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		-	-	-	-
Dosses		-	-	-	-
Final consumption 2,235 - 689 2,92 Industry 1,785 - 72 1,85 Unclassified - - - - Iron and steel - - - - Non-ferrous metals - <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		-	-	-	-
Industry 1,785 - 72 1,85 Unclassified - - - Iron and steel - - - Non-ferrous metals - - - - Mineral products -			-	-	-
Unclassified - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -			-		2,924
Iron and steel - - - -		1,785	-	72	1,857
Non-ferrous metals - 1.15 Chemicals - 7 Mechanical engineering etc - 1 Electrical engineering etc - 1 Vehicles - 7 Food, beverages etc -		-	-	-	-
Mineral products - 1,15 Chemicals - 7 Mechanical engineering etc - 1 Vehicles - 7 Food, beverages etc -		-	-	-	-
Chemicals - 7 Mechanical engineering etc - 1 Vehicles - 7 Food, beverages etc - 5 Textiles, leather, etc - 12 Other industries - 12 Other industries - 2 2 Construction - - - 2 2 Air -			=		13
Mechanical engineering etc - 1 Electrical engineering etc - 7 Vehicles - 7 Food, beverages etc - 8 Textiles, leather, etc - 8 Paper, printing etc - 12 Other industries - 2 2 Construction - - 2 2 Transport - - - - - Air - - - - - - Rail - - - - - - - - - - - - - - - - - - - -	Mineral products		-		1,199
Electrical engineering etc - 7 Vehicles - 7 Food, beverages etc - 5 Textiles, leather, etc - 12 Paper, printing etc - 12 Other industries - 2 Construction - - - 2 Transport - <	Chemicals		-		70
Vehicles - 7 Food, beverages etc - 5 Textiles, leather, etc - 8 Paper, printing etc - 12 Other industries - - 2 Construction -	Mechanical engineering etc	••	-	••	14
Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport Air Rail Road Road National navigation Pipelines Other Othe	Electrical engineering etc		=		2
Textiles, leather, etc - 8 Paper, printing etc - 12 Other industries - 22 Construction - - - - Transport - - - - Air - - - - Rail - - - - Road - - - - National navigation - - - - Pipelines - - - - - Other - - - - - Domestic 426 - 617 1,04 Public administration - 1 Commercial - Agriculture -	Vehicles		=		70
Textiles, leather, etc - 8 Paper, printing etc - 12 Other industries - 22 Construction - - - - Transport - - - - Air - - - - Rail - - - - Road - - - - National navigation - - - - Pipelines - - - - - Other - - - - - Domestic 426 - 617 1,04 Public administration - 1 Commercial - Agriculture -	Food, beverages etc		-		50
Paper, printing etc - 12 Other industries - - - 22 Construction - <td></td> <td></td> <td>-</td> <td></td> <td>86</td>			-		86
Other industries - 22 Construction - - - - Transport - - - - - Air -			-		128
Construction - <t< td=""><td></td><td></td><td>=</td><td></td><td>225</td></t<>			=		225
Transport -		_	_	_	_
Air -		_	-	_	_
Rail - - - Road - - - National navigation - - - Pipelines - - - Other - 1,06 Domestic 426 - 617 1,04 Public administration - 1 Commercial - 1 Agriculture -		_	_	<u>-</u>	_
Road -		<u>-</u>	=	_	_
National navigation - - - - - - - - - - - - 1,06 - 1,06 - - - 1,06 - - - - 1,04 -		_	-	_ _	_
Pipelines - - - - - 1,06 1,06 1,06 1,04<		-	_	-	_
Other - 1,06 Domestic 426 - 617 1,04 Public administration - 1 Commercial - Agriculture -		-	-	-	-
Domestic 426 - 617 1,04 Public administration - 1 Commercial - Agriculture -		=	-	-	4 060
Public administration1CommercialAgriculture			-		
Commercial Agriculture		4∠6	-	617	
Agriculture		••	=		12
			=		5
Miscellaneous			-		6
Non energy use			<u> </u>	••	2

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Total supply minus total demand.

Commodity balances 2002Coal

	Stoom cool	Coking cool	Anthracite	nd tonnes
O	Steam coal	Coking coal	Anthracite	Total
Supply		070		00 500
Production		373		29,539
Other sources		-		450
Imports	21,895	6,315	477	28,686
Exports	-342	-3	-192	-537
Marine bunkers	-	- 100	-	. 504
Stock change (1)	**	+162	••	+501
Transfers	-		-	
Total supply		6,846		58,640
Statistical difference (2)		+313		+88
Total demand	49,111	6,533	2,909	58,553
Transformation	46,819	6,533	2,075	55,427
Electricity generation	46,102	-	1,639	47,741
Major power producers	44,506	-	1,639	46,145
Autogenerators	1,596	=	=	1,596
Heat generation	717	-	=	717
Petroleum refineries	-	-	-	-
Coke manufacture	-	5,807	=	5,807
Blast furnaces	-	726	-	726
Patent fuel manufacture and low temperature carbonisation	-	-	436	436
Energy industry use	8	-	1	9
Electricity generation	-	-	-	-
Oil and gas extraction	-	-	=	-
Petroleum refineries	-	-	=	-
Coal extraction	8	-	1	9
Coke manufacture	-	=	-	-
Blast furnaces	-	=	-	_
Patent fuel manufacture	_	_	-	_
Pumped storage	-	=	-	_
Other	-	=	-	_
Losses	_	_	-	_
Final consumption	2,283	_	834	3,117
Industry	1,778	_	31	1,809
Unclassified	1,110	_	-	1,000
Iron and steel	_	_	_	_
Non-ferrous metals		_		24
Mineral products	••	_		1,213
Chemicals		_	••	61
Mechanical engineering etc			••	14
Electrical engineering etc			••	7
Vehicles		_		61
Food, beverages etc	••	-		45
Textiles, leather, etc	**	-		84
	••	-	••	119
Paper, printing etc Other industries	••	-	••	181
Construction	••	-	••	101
	-	-	-	-
Transport	-	-	-	-
Air Bail	-	-	-	-
Rail	-	-	-	-
Road	-	-	-	-
National navigation	=	=	=	-
	=	-	-	
Pipelines		_		1,308
Other				
Other Domestic	 483	-	803	1,286
Other Domestic Public administration	 483 	- -	803 	1,286 9
Other Domestic Public administration Commercial	 483 	- - -	803 	1,286 9 5
Other Domestic Public administration	 483 	- - -	803 	1,286 9

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Total supply minus total demand.

Commodity balances 2001Coal

	C+	Caldana		nd tonnes
	Steam coal	Coking coal	Anthracite	Total
Supply				
Production		312		31,513
Other sources				417
Imports	27,041	7,723	778	35,542
Exports	-301	-4	-244	-550
Marine bunkers	=	-	=	-
Stock change (1)	**	-366	••	-3,392
Transfers	-		-	-
Total supply	**	7,664		63,530
Statistical difference (2)		-231		-320
Total demand	52,924	7,895	3,031	63,850
Transformation	50,304	7,895	1,873	60,072
Electricity generation	49,554	-	1,378	50,932
Major power producers	47,913	-	1,378	49,290
Autogenerators	1,641	=	=	1,641
Heat generation	750	-	=	750
Petroleum refineries	-	-	=	-
Coke manufacture	-	7,132	=	7,132
Blast furnaces	=	764	=	764
Patent fuel manufacture and low temperature carbonisation	=	=	496	496
Energy industry use	9	-	1	10
Electricity generation	-	-	-	-
Oil and gas extraction	-	-	-	-
Petroleum refineries	-	-	-	-
Coal extraction	9	-	1	10
Coke manufacture	-	-	=	-
Blast furnaces	-	-	=	-
Patent fuel manufacture	-	-	=	-
Pumped storage	-	-	-	-
Other	-	-	-	-
Losses	-	-	=	-
Final consumption	2,611	-	1,157	3,768
Industry	1,779	-	48	1,826
Unclassified	-	-	-	-
Iron and steel	1	-	-	1
Non-ferrous metals		-		13
Mineral products	**	-		1,260
Chemicals		-		35
Mechanical engineering etc		-		13
Electrical engineering etc		-		8
Vehicles		-		60
Food, beverages etc		-		42
Textiles, leather, etc		-		75
Paper, printing etc	**	-		107
Other industries		-		213
Construction	-	=	-	=
Transport	-	-	-	-
Air	-	-	-	-
Rail	-	-	-	-
Road	-	-	-	-
National navigation	-	-	-	-
Pipelines	-	-	-	-
Other		-		1,942
Domestic	764	-	1,110	1,874
Public administration		-		47
Commercial		-		6
	••	_		5
Agriculture				
Agriculture Miscellaneous	••	=		10

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Total supply minus total demand.

Commodity balances 2000Coal

			Thousa	nd tonnes
	Steam coal	Coking coal	Anthracite	Total
Supply				
Production	••	255		30,600
Other sources		-		598
Imports	14,425	8,462	558	23,446
Exports	-351	-4	-306	-660
Marine bunkers	-	-	-	-
Stock change (1)		+111		+5,855
Transfers	=	=	-	-
Total supply		8,824		59,838
Statistical difference (2)		+139		-151
Total demand	48,337	8,685	2,909	59,931
Transformation	45,480	8,685	1,913	56,078
Electricity generation	44,825	, <u>-</u>	1,373	46,198
Major power producers	43,389	-	1,373	44,762
Autogenerators	1,436	-	· -	1,436
Heat generation	656	-	-	656
Petroleum refineries	-	-	-	-
Coke manufacture	-	8,229	-	8,229
Blast furnaces	=	456	-	456
Patent fuel manufacture and low temperature carbonisation	=	-	540	540
Energy industry use	9	_	3	12
Electricity generation	-	-	-	_
Oil and gas extraction	_	-	-	_
Petroleum refineries	_	-	-	_
Coal extraction	9	_	3	12
Coke manufacture	-	-	-	-
Blast furnaces	_	-	-	_
Patent fuel manufacture	_	_	_	_
Pumped storage	_	_	_	_
Other	_	_	_	_
Losses Final concumption	2 0 4 0		993	2 0 4 4
Final consumption	2,848	<u> </u>	993 75	3,841 1,876
Industry Unclassified	1,801	-	75	1,076
	-	-	-	2
Iron and steel	2	-	-	∠ 11
Non-ferrous metals	••	-	••	
Mineral products	••	-	••	1,240
Chemicals	••	-	••	34
Mechanical engineering etc		-	••	9
Electrical engineering etc		-		3
Vehicles Final Indiana and a second a second and a second a second and a second a second and a second and a second and a		-	••	49
Food, beverages etc		-		18
Textiles, leather, etc		-		62
Paper, printing etc		=		122
Other industries	•••	-	••	326
Construction	-	-	-	-
Transport	-	-	-	-
Air	-	-	-	-
Rail	-	-	-	-
Road	-	-	-	-
National navigation	-	=	-	-
Pipelines	=	=	-	=
Other		-		1,965
Domestic	965	-	917	1,883
Public administration		-		60
Commercial	••	-		7
Agriculture		=		7
Miscellaneous		-		8
Non energy use	-	-	-	-

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Total supply minus total demand.

Commodity balances 1999 Coal

	<u> </u>	-		nd tonnes
	Steam coal	Coking coal	Anthracite	Tota
Supply				
Production		263		36,163
Other sources		-		914
Imports	11,675	8,020	598	20,293
Exports	-434	-	-327	-761
Marine bunkers	-	-	-	-
Stock change (1)		+258		-1,164
Transfers	-	-	-	-
Total supply		8,541		55,445
Statistical difference (2)		+128		-279
Total demand	44,837	8,413	2,474	55,724
Transformation	41,027	8,413	1,446	50,886
Electricity generation	40,378	-	800	41,178
Major power producers	38,783	-	800	39,583
Autogenerators	1,595	=	=	1,595
Heat generation	649	-	-	649
Petroleum refineries	-	-	-	-
Coke manufacture	-	7,919	-	7,919
Blast furnaces	-	494	-	494
Patent fuel manufacture and low temperature carbonisation	=	-	646	646
Energy industry use	9	-	1	10
Electricity generation	-	=	-	-
Oil and gas extraction	_	_	-	-
Petroleum refineries	_	_	_	-
Coal extraction	9	_	1	10
Coke manufacture	-	-	-	-
Blast furnaces	_	_	_	_
Patent fuel manufacture	_	_	_	_
Pumped storage	_			_
Other	_	_		_
	_	_	_	_
Losses Final consumption	3,801		1,027	4,828
Industry	1,913	<u> </u>	127	2,040
Unclassified	1,313	_	-	2,040
Iron and steel	12	_	_	12
Non-ferrous metals		_		346
Mineral products	••		••	586
Chemicals		_	••	434
Mechanical engineering etc	••	_	••	25
Electrical engineering etc	••	_	••	7
	••	-		7 79
Vehicles		-		
Food, beverages etc		-		215
Textiles, leather, etc	••	-		58
Paper, printing etc		-		121
Other industries	••	-	••	157
Construction	-	-	-	-
Transport	-	=	-	-
Air	-	-	-	-
Rail	-	-	-	=
Road	-	-	-	=
National navigation	=	-	-	-
Pipelines	=	-	-	-
Other		-		2,788
Domestic	1,619	-	898	2,517
Public administration		-		229
Commercial		-		4
Agriculture		-		7
Miscellaneous	<u></u>	-		31
Non energy use			_	

⁽¹⁾ Stock fall (+), stock rise (-).(2) Total supply minus total demand.

Commodity balances 1998Coal

			Thousa	nd tonnes
	Steam coal	Coking coal	Anthracite	Total
Supply				
Production		541		40,046
Other sources		=		1,131
Imports	12,079	8,646	519	21,244
Exports	-689	-	-282	-971
Marine bunkers	-	-	-	-
Stock change (1)	**	-184		+1,421
Transfers	=	-	=	-
Total supply		9,003		62,871
Statistical difference (2)		+275		-281
Total demand	51,997	8,728	2,427	63,152
Transformation	47,847	8,728	1,376	57,951
Electricity generation	47,847	-	741	48,588
Major power producers	45,886	-	741	46,627
Autogenerators	1,961	-	-	1,961
Petroleum refineries	· -	-	-	-
Coke manufacture	-	8,169	-	8,169
Blast furnaces	_	559	-	559
Patent fuel manufacture and low temperature carbonisation	-	-	635	635
Energy industry use	4	-	1	5
Electricity generation	-	_		-
Oil and gas extraction	_	_	_	_
Petroleum refineries	_	_		
Coal extraction	4	_	1	5
Coke manufacture	4	-	'	3
	-	-	-	-
Blast furnaces	-	-	-	-
Patent fuel manufacture	-	-	-	-
Pumped storage	-	-	=	-
Other	=	-	=	-
Losses	- 1110	=	- 4.050	
Final consumption	4,146	-	1,050	5,196
Industry	2,329	-	85	2,414
Unclassified	-	-	=	-
Iron and steel	9	-	-	9
Non-ferrous metals		-		208
Mineral products	•••	-	••	763
Chemicals		-		643
Mechanical engineering etc		-		28
Electrical engineering etc		-		3
Vehicles	**	-		46
Food, beverages etc		-		288
Textiles, leather, etc		-		69
Paper, printing etc		-		108
Other industries		-		249
Construction	=	_	=	-
Transport	-	_	-	-
Air	_	_	-	_
Rail	-	_	-	_
Road	-	_	-	_
National navigation	_	_	_	_
Pipelines	_	_	_	_
Other	-	-	-	2 792
	4 440	-		2,782
Domestic Dublic administration	1,413	-	953	2,366
Public administration	••	=		312
Commercial		-		4
Agriculture		-		9
Miscellaneous		-		91
Non energy use	_	-	-	-

⁽¹⁾ Stock fall (+), stock rise (-).
(2) Total supply minus total demand.

Supply and consumption of coke oven coke, coke breeze and other manufactured solid fuels

											Thous	and tonnes
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Coke oven coke												
Supply												
Production	6,178	5,837	6,058	5,306	4,335	4,286	4,038	4,105	4,384	4,451	4,324	3,663
Imports	753	389	421	101	226	929	847	674	748	745	503	140
Exports	-93	-79	-243	-176	-272	-74	-80	-64	-94	-105	-111	-97
Stock change (1)	-195	+290	-216	+121	+257	-60	-88	-94	-237	+34	+287	-79
Transfers	-1,223	-951	-827	-982	-927	-1,095	-1,012	-983	-955	-1,115	-1,104	-784
Total supply	5,420	5,486	5,193	4,370	3,620	3,986	3,704	3,638	3,846	4,010	3,899	2,843
Statistical difference (2)	-12	-154	-123	-24	-37	-18	-14	-2	-1	-14	-0	-
Total demand	5,432	5,640	5,316	4,394	3,657	4,004	3,718	3,639	3,847	4,024	3,900	2,843
Transformation	4,908	5,113	4,764	3,957	3,224	3,716	3,569	3,516	3,745	3,910	3,796	2,755
Blast furnaces	4,908	5,113	4,764	3,957	3,224	3,716	3,569	3,516	3,745	3,910	3,796	2,755
Energy industry use	27	20	37	32	17	-	- 440	-			-	-
Final consumption	497	507	515	405	417	288	149	123	102	114	104	88
Industry	377	386	370	338	239	159	98	89	80 53	99 76	91 78	78 71
Unclassified	220 23	226 17	191	181 32	151 29	113 23	76 22	67 22	26	23	13	71
Iron and steel Non-ferrous metals	23 134	143	19 160	32 125	29 59	23 24	22	22	20	23	13	,
Other	134 120	143 121	160 145	67	178	24 1 29	- 51	34	22	15	12	10
	120	121	145	67	178	129	51 51	34 34	22	15	12	10
Stocks at end of year (3)	623	333	548	428	171	230	318	413	650	616	326	319
	623	333	548	428	171	230	318	413	630	616	326	319
Coke breeze												
Supply												
Production (4)	37	33	148	210	224	315	298	259	245	25	35	29
Imports	78	40	62	56	12	49	199	235	261	325	219	38
Exports	-196	-165	-138	-143	-46	-64	-62	-55	-74	-152	-74	-49
Stock change (1)	-129	-40	22	8	-14	-83	-63	-59	+25	-80	-79	+89
Transfers	1,163	1,035	827	982	+927	+1,095	+1,012	+983	955	1,115	1,104	784
Total supply	953	903	921	1,112	1,102	1,311	1,363	1,363	1,411	1,233	1,205	892
Statistical difference (2) Total demand	-237 1,190	-206 1,109	-115 1,036	-7 1,120	+28 1,075	-21 1,332	-1 1,364	-1 1,364	-4 1,415	+3 1,229	+0 1,204	892
Transformation	287	189	202	313	331	530	568	568	688	483	567	426
Coke manufacture	50	24	14	9	331	330	300	300	000	403	307	420
Blast furnaces	237	165	188	304	331	530	568	568	688	483	567	426
Energy industry use	231	100	100	304	331	330	- 300	300	- 000	403	307	420
Final consumption	903	920	834	807	744	802	827	796	727	747	638	466
Industry	903	920	834	807	744	802	827	796	727	747	638	466
Unclassified	903 81	33	41	16	44	7	39	14	26	13	16	400 7
Iron and steel	822	887	793	791	700	7 795	788	782	701	734	621	460
										473	553	
Stocks at end of year (3)	189	229	207	199	213	296	359	418	394	4/3	333	246
Other manufactured solid fuels												
Supply												
Production	616	635	537	487	431	392	318	258	260	227	302	303
Imports	10	6	14	8	17	5	5	6	10	13	16	6
Exports	-56	-54	-79	-75	-67	-55	-39	-15	-12	-7	-25	-31
Stock change (1)	-74	-7	38	37	+14		+22	+6	+2	+2	+6	-10
Total supply	496	580	510	457	394	342	305	254	260	235	299	268
Statistical difference (2)	-148	-5	-22	-38	-29	-20	-14	-2	+3	+0	+4	-1
Total demand	644	585	532	495	424	363	320	256	257	235	294	269
Transformation				-		.		-	-	-	-	-
Energy industry use	14	13	11	12	10	4	4	-	-	-	-	-
Patent fuel manufacture	14	13	11	12	10	4	4	-				-
Final consumption	630	572	521	483	414	358	316	256	257	235	294	269
Industry	32	18	25	37	22	17	12	-	-	-	-	-
Unclassified	32	18	25	37	22	17	12	-	-	-	-	-
Other	598	554	496	446	392	341	303	256	257	235	294	269
Domestic	598	554	496	446	392	341	303	256	257	235	294	269
Stocks at end of year (3)	134	141	103	66	52	51	30	24	25	27	24	33

⁽¹⁾ Stock fall (+), stock rise (-).
(2) Total supply minus total demand.
(3) Producers stocks and distributed stocks.
(4) See paragraph 2.29.

Supply and consumption of coke oven gas, blast furnace gas, benzole and tars

												GWh
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Coke oven gas												
Supply												
Production	13,126	12,090	12,661	11,516	9,549	9,564	9,076	9,290	9,825	9,651	9,410	7,956
Imports	-	-	-	-	-	-	-	-	-	-	-	-
Exports	-	-	-	-	-	-	-	-	-	-	-	-
Transfers (1)	+630	+528	+460	+68	+104	+86	+40	+53	+57	+81	+71	+366
Total supply	13,756	12,618	13,121	11,584	9,653	9,650	9,116	9,343	9,882	9,732	9,481	8,322
Statistical difference (2)	+127	-210	-264	+141	+64	+36	+65	+64	+76	+47	-8	-62
Total demand	13,629	12,828	13,385	11,443	9,589	9,614	9,051	9,279	9,806	9,685	9,489	8,383
Transformation	1,963	3,748	3,797	3,365	2,973	2,909	1,944	2,625	2,593	2,671	2,681	3,044
Electricity generation	1,963	1,999	1,987	1,490	1,486	1,854	1,526	2,207	2,175	2,253	2,263	2,626
Heat generation	-	1,749	1,810	1,875	1,486	1,055	418	418	418	418	418	418
Other	-	-	-	-	-	-	-	-	-	-	-	-
Energy industry use	6,855	6,522	6,748	6,053	5,321	5,630	5,273	5,064	5,300	5,170	5,117	4,471
Coke manufacture	5,690	5,283	5,555	4,720	4,270	4,466	4,326	4,321	4,282	4,228	4,349	3,888
Blast furnaces	1,165	1,239	1,193	1,333	1,051	1,164	948	743	1,019	942	768	583
Other	-	-	-	-	-	-	-	-	-	-	-	-
Losses	335	173	325	231	387	457	783	441	483	445	413	75
Final consumption	4,476	2,385	2,515	1,794	909	618	1,050	1,149	1,430	1,399	1,278	794
Industry	4,476	2,385	2,515	1,794	909	618	1,050	1,149	1,430	1,399	1,278	794
Unclassified	116	72	200	367	40	53	265	236	194	221	207	230
Iron and steel	4,360	2,313	2,315	1,427	869	565	785	913	1,236	1,178	1,071	564
Blast furnace gas												
Supply												
Production	20,114	19,023	17,743	14,767	13,130	15,790	15,770	16,199	16,443	16,701	15,345	11,199
Imports	20,				-	-	-	-	-	-	-	- 1,100
Exports	_	_	_	_	_	-	_	_	_	_	-	_
Transfers (1)	-22	-22	-17	-3	-4	-3	-2	-2	-2	-3	-3	-15
Total supply	20,092	19,001	17,726	14,764	13,125	15,787	15,768	16,197	16,441	16,698	15,342	11,184
Statistical difference (2)	+291	-142	-103	-100	-92	-106	-103	-107	-119	-113	-110	-66
Total demand	19,801	19,143	17,829	14,864	13,218	15,893	15,872	16,304	16,560	16,811	15,452	11,250
Transformation	8,512	9,585	9.089	6,025	5,843	9,301	9,370	9,490	9,249	9,102	7,900	6,531
Electricity generation	8,512	8,476	8,470	5,493	5,422	9,002	9,191	9,310	9,070	8,922	7,721	6,352
Heat generation	-	1,109	619	532	422	299	179	179	179	179	179	179
Other	_		-	-			-	-	_	-	-	-
Energy industry use	6,578	6,219	6,034	4,709	4,095	4,771	4,570	4,474	4,831	5,082	4,759	3,657
Coke manufacture	1,085	1,083	1,057	649	510	432	297	285	536	703	639	506
Blast furnaces	5,493	5,136	4,977	4,060	3,585	4,339	4,273	4,189	4,294	4,379	4,121	3,151
Other	· -								· -	· -		-
Losses	1,474	1,723	1,592	965	648	1,398	1,557	2,014	1,578	2,071	2,332	724
Final consumption	3,237	1,616	1,114	3,165	2,632	423	375	326	902	557	461	337
Industry	3,237	1,616	1,114	3,165	2,632	423	375	326	902	557	461	337
Unclassified	-, -		´ -	-	-	-	-	-	-	-	-	-
Iron and steel	3,237	1,616	1,114	3,165	2,632	423	375	326	902	557	461	337
Benzole and tars (3)					,						-	
Supply												
Production	2,542	2,343	2,393	2,115	1,781	1,773	1,722	1,749	1,873	1,838	1,816	1,536
	•		•	•	•		•	•	•	•	•	
Final consumption (4)	2,542	2,343	2,393	2,115	1,781	1,773	1,722	1,749	1,873	1,838	1,816	1,536
Unclassified	617	580	2,393	2,115	1,781	1,773	1,722	1,749	1,873	1,838	1,816	1,536
Iron and steel	1,925	1,763	-	-	-	-	-	-	-	-	-	-

To and from synthetic coke oven gas, see paragraph 2.53.
 Total supply minus total demand.
 Because of the small number of benzole suppliers, figures for benzole and tars cannot be given separately.
 From 2000, Iron and steel under final consumption has been reclassified due to additional information being

Commodity balances 2009⁽¹⁾

						Thousand to					
	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total			
						NGL		primary oil			
Supply											
Production	62,820	999	1,692	1,284	1,403	5,378	-	68,199			
Other sources	-	-	-	-	-	-	-	-			
Imports	47,104	155	198	113	715r	1,181r	6,771	55,056r			
Exports	-39,446	-9	-1,015	-589	-743	-2,356	-3,641	-45,444			
Marine bunkers	-	-	-	-	-	-	-	-			
Stock change (2)	+393					-30	+182	+545			
Transfers	-	-1,139	-798	-363	-318	-2,618	+16r	-2,601			
Total supply	70,870					1,556r	3,329r	75,754r			
Statistical difference (3)(4)	+155					+7	-11	+150			
Total demand (4)	70,716					1,549r	3,340r	75,604r			
Transformation (4)	70,716					1,549r	3,340r	75,604r			
Electricity generation	-	-	-	-	-	-	-	-			
Major power producers	-	-	-	-	-	-	-	-			
Autogenerators	-	-	-	-	-	-	-	-			
Heat generation	-	-	-	-	-	-	-	-			
Petroleum refineries	70,716					1,549r	3,340r	75,604r			
Coke manufacture	-	-	-	-	-	-	-	-			
Blast furnaces	-	-	-	-	-	-	-	-			
Patent fuel manufacture	-	-	-	-	-	-	-	-			
Other	-	-	-	-	-	-	-	-			
Energy industry use	-	-	-	-	-	-	-	-			
Electricity generation	-	-	-	-	-	-	-	-			
Oil & gas extraction	-	-	-	-	-	-	-	-			
Petroleum refineries	-	-	-	-	-	-	-	-			
Coal extraction	-	-	-	-	-	-	-	-			
Coke manufacture	-	-	-	-	-	-	-	-			
Blast furnaces	-	-	-	-	-	-	-	-			
Patent fuel manufacture	-	-	-	-	-	-	-	-			
Pumped storage	-	-	-	-	-	-	-	-			
Other	-	-	-	-	-	-	-	-			
Losses					-	-		-			

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry.

⁽²⁾ Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.

⁽⁴⁾ Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 2008⁽¹⁾

							Thousand					
	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total				
						NGL		primary oil				
Supply												
Production	65,497	1,202	1,953	1,439	1,574	6,168	-	71,665				
Other sources	-	-	-	-	-	-	-	-				
Imports	51,466	180	223	124	415r	942r	7,926	60,335r				
Exports	-41,504	-12	-1,369	-683	-975	-3,039	-3,858	-48,401				
Marine bunkers	-	-	-	-	-	-	-	-				
Stock change (2)	+261					+59	-86	+234				
Transfers	-	-1,328	-727	-433	-312	-2,800	+208	-2,592				
Total supply	75,720					1,331r	4,190	81,241r				
Statistical difference (3)(4)	-124					+60	+272	+208				
Total demand (4)	75,844					1,271r	3,918	81,034r				
Transformation (4)	75,844					1,271r	3,918	81,034r				
Electricity generation	-	-	-	-	-	-	-	-				
Major power producers	-	-	-	-	-	-	-	-				
Autogenerators	-	-	-	-	-	-	-	-				
Heat generation	-	-	-	-	-	-	-	-				
Petroleum refineries	75,844					1,271r	3,918	81,034r				
Coke manufacture	-	-	-	-	-	-	-	-				
Blast furnaces	-	-	-	-	-	-	-	-				
Patent fuel manufacture	-	-	-	-	-	-	-	-				
Other	-	-	-	-	-	-	-	-				
Energy industry use	-	-	-	-	-	-	-	-				
Electricity generation	-	-	-	-	-	-	-	-				
Oil & gas extraction	-	-	-	-	-	-	-	-				
Petroleum refineries	-	-	-	-	-	-	-	-				
Coal extraction	-	-	-	-	-	-	-	-				
Coke manufacture	-	-	-	-	-	-	-	-				
Blast furnaces	-	-	-	-	-	-	-	-				
Patent fuel manufacture	-	-	-	-	-	-	-	-				
Pumped storage	-	-	-	-	-	-	-	-				
Other	-	-	-	-	-	-	-	-				
Losses	-	-	-	-	-	-	-	-				

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry.

⁽²⁾ Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.

⁽⁴⁾ Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 2007⁽¹⁾

					Thousand to							
	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total				
						NGL		primary oil				
Supply												
Production	70,357	1,153	1,796	1,412	1,858	6,218	-	76,575				
Other sources	-	-	-	-	-	-	-	-				
Imports	49,893	62	84	50	61	257	7,206	57,357				
Exports	-45,129	-13	-836	-548	-1,186	-2,584	-3,287	-50,999				
Marine bunkers	-	-	-	-	-	-	-	-				
Stock change (2)	+650					+9	+125	+784				
Transfers	-	-1,203	-861	-362	-328	-2,754	+547	-2,207				
Total supply	75,772					1,146	4,591	81,509				
Statistical difference (3)(4)	+66					-6	-28	32				
Total demand (4)	75,707					1,152	4,619	81,477				
Transformation (4)	75,707				••	1,152	4,619	81,477				
Electricity generation	-	-	-	-	-	-	-	-				
Major power producers	-	-	-	-	-	-	-	-				
Autogenerators	-	-	-	-	-	-	-	-				
Heat generation	-	-	-	-	-	-	-	-				
Petroleum refineries	75,707					1,152	4,619	81,477				
Coke manufacture	-	-	-	-	-	-	-	-				
Blast furnaces	-	-	-	-	-	-	-	-				
Patent fuel manufacture	-	-	-	-	-	-	-	-				
Other	-	-	-	-	-	-	-	-				
Energy industry use	-	-	-	-	-	-	-	-				
Electricity generation	-	-	-	-	-	-	-	-				
Oil & gas extraction	-	-	-	-	-	-	-	-				
Petroleum refineries	-	-	-	-	-	-	-	-				
Coal extraction	-	-	-	-	-	-	-	-				
Coke manufacture	-	-	-	-	-	-	-	-				
Blast furnaces	-	-	-	-	-	-	-	-				
Patent fuel manufacture	-	-	-	-	-	-	-	-				
Pumped storage	-	-	-	-	-	-	-	-				
Other	-	-	-	-	-	-	-	-				
Losses	-	-	-	-	-	-	-	-				

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry.

⁽²⁾ Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.

⁽⁴⁾ Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 2006⁽¹⁾

						Thousand ton						
	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total				
						NGL		primary oil				
Supply												
Production	69,665	1,281	1,947	1,542	2,143	6,913	-	76,578				
Other sources	-	-	-	-	-	-	-	-				
Imports	51,446	-	-	-	-	-	7,997	59,443				
Exports	-44,923	-17	-891	-488	-1,232	-2,628	-2,643	-50,195				
Marine bunkers	-	-	-	-	-	-	-	-				
Stock change (2)	-354					-79	+78	-355				
Transfers	-	-1,264	-848	-484	-427	-3,024	+683	-2,341				
Total supply	75,834					1,182	6,115	83,130				
Statistical difference (3)(4)	-10					+12	-85	-83				
Total demand (4)	75,844					1,169	6,200	83,213				
Transformation (4)	75,844					1,169	6,200	83,213				
Electricity generation	-	-	-	-	-	-	-	-				
Major power producers	-	-	-	-	-	-	-	-				
Autogenerators	-	-	-	-	-	-	-	-				
Heat generation	-	-	-	-	-	-	-	-				
Petroleum refineries	75,844					1,169	6,200	83,213				
Coke manufacture	-	-	-	-	-	-	-	-				
Blast furnaces	-	-	-	-	-	-	-	-				
Patent fuel manufacture	-	-	-	-	-	-	-	-				
Other	-	-	-	-	-	-	-	-				
Energy industry use	-	-	-	-	-	-	-	-				
Electricity generation	-	-	-	-	-	-	-	-				
Oil & gas extraction	-	-	-	-	-	-	-	-				
Petroleum refineries	-	-	-	-	-	-	-	-				
Coal extraction	-	-	-	-	-	-	-	-				
Coke manufacture	-	-	-	-	-	-	-	-				
Blast furnaces	-	-	-	-	-	-	-	-				
Patent fuel manufacture	-	-	-	-	-	-	-	-				
Pumped storage	-	-	-	_	-	-	-	-				
Other	-	-	-	-	-	-	-	-				
Losses	-	-	-	-	-	-	-	-				

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry.

⁽²⁾ Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.

⁽⁴⁾ Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 2005⁽¹⁾

						Thousand ton						
	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total				
						NGL		primary oil				
Supply												
Production	77,179	1,414	2,181	1,648	2,300	7,543	-	84,721				
Other sources	-	-	-	-	-	-	-	-				
Imports	52,210	-	-	-	-	-	6,675	58,885				
Exports	-48,879	-14	-1,204	-760	-1,249	-3,227	-1,992	-54,099				
Marine bunkers	-	-	-	-	-	-	-	-				
Stock change (2)	-277					+73	-180	-385				
Transfers	-	-1,398	-857	-500	-632	-3,387	+332	-3,054				
Total supply	80,233					1,001	4,835	86,069				
Statistical difference (3)(4)	+12					+8	-85	-65				
Total demand (4)	80,221					993	4,920	86,134				
Transformation (4)	80,221					993	4,920	86,134				
Electricity generation	-	-	-	-	-	-	-	-				
Major power producers	-	-	-	-	-	-	-	-				
Autogenerators	-	-	-	-	-	-	-	-				
Heat generation	-	-	-	-	-	-	-	-				
Petroleum refineries	80,221					993	4,920	86,134				
Coke manufacture	-	-	-	-	-	-	-	-				
Blast furnaces	-	-	-	-	-	-	-	-				
Patent fuel manufacture	-	-	-	-	-	-	-	-				
Other	-	-	-	-	-	-	-	-				
Energy industry use	-	-	-	-	-	-	-	-				
Electricity generation		-	-	-	-	-	-	-				
Oil & gas extraction	-	-	-	-	-	-	-	-				
Petroleum refineries	-	-	-	-	-	-	-	-				
Coal extraction	-	-	-	-	-	-	-	-				
Coke manufacture	-	-	-	-	-	-	-	-				
Blast furnaces	-	-	-	-	-	-	-	-				
Patent fuel manufacture	-	-	-	-	-	-	-	-				
Pumped storage	-	-	-	_	-	_	-	-				
Other	-	-	-	-	-	-	-	-				
Losses	-	-	-	-	-	-	-	-				

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry.

⁽²⁾ Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.

⁽⁴⁾ Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 2004⁽¹⁾

							Thous	and tonnes
	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total
						NGL		primary oil
Supply								
Production	87,516	1,473	2,441	1,863	2,081	7,858	-	95,374
Other sources	-	-	-	-	-	-	-	-
Imports	55,858	-	-	-	-	-	6,659	62,517
Exports	-60,724	-10	-1,265	-639	-774	-2,688	-1,091	-64,504
Marine bunkers	-	-	-	-	-	-	-	=
Stock change (2)	-136					-53	+55	-133
Transfers	-	-1,417	-828	-645	-835	-3,724	+181	-3,543
Total supply	82,514					1,392	5,804	89,710
Statistical difference (3)(4)	+341					+35	-487	-110
Total demand (4)	82,173					1,357	6,291	89,821
Transformation (4)	82,173					1,357	6,291	89,821
Electricity generation	-	-	-	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-
Autogenerators	-	-	-	-	-	-	-	-
Heat generation	-	-	-	-	-	-	-	-
Petroleum refineries	82,173					1,357	6,291	89,821
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-
Oil & gas extraction	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Losses	-	-	-	-	-	-	-	-

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry.

⁽²⁾ Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.

⁽⁴⁾ Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 2003⁽¹⁾

	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total
						NGL		primary oil
Supply								
Production	97,835	1,531	2,578	1,999	2,130	8,238	-	106,073
Other sources	-	-	-	-	-	-	-	-
Imports	48,589	-	-	-	-	-	5,588	54,177
Exports	-68,823	-24	-1,785	-917	-978	-3,703	-2,372	-74,898
Marine bunkers	=	-	-	-	-	=	=	=
Stock change (2)	+486					-5	-11	+469
Transfers	=	-1,509	-628	-524	-	-2,661	+1,653	-1,008
Total supply	78,086					1,869	4,859	84,814
Statistical difference (3)(4)	+778					+596	-1,145	+229
Total demand (4)	77,309					1,273	6,004	84,585
Transformation (4)	77,309					1,273	6,004	84,585
Electricity generation	-	-	-	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-
Autogenerators	-	-	-	-	-	-	-	-
Heat generation	-	-	-	-	-	-	-	-
Petroleum refineries	77,309					1,273	6,004	84,585
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-
Oil & gas extraction	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Losses	-	-	-	-	-	-	_	-

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry.

⁽²⁾ Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.(4) Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 2002⁽¹⁾

							Thous	and tonnes
	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total
						NGL		primary oil
Supply								
Production	107,430	1,596	2,728	2,071	2,118	8,514	=	115,944
Other sources	-	-	-	-	-	-	=	-
Imports	52,042	-	-	-	-	-	4,926	56,968
Exports	-81,198	-10	-1,909	-888	-1,022	-3,830	-2,116	-87,144
Marine bunkers	-	-	-	-	-	-	=	-
Stock change (2)	+33					+34	+75	+143
Transfers	=	-1,578	-670	-1,046	-	-3,294	+1,739	-1,555
Total supply	78,306					1,424	4,625	84,356
Statistical difference (3)(4)	+506					-143	-791	-428
Total demand (4)	77,801					1,567	5,416	84,784
Transformation (4)	77,801					1,567	5,416	84,784
Electricity generation	-	-	-	-	-	-	-	-
Major power producers	-	-	-	=	-	-	-	-
Autogenerators	-	-	-	-	-	-	-	-
Heat generation	-	-	-	-	-	-	-	-
Petroleum refineries	77,801					1,567	5,416	84,784
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-
Oil & gas extraction	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Losses	-	-	-	-	-	-	-	-

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry.

⁽²⁾ Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.(4) Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 2001⁽¹⁾

		Thousand tonnes										
	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total				
						NGL		primary oil				
Supply												
Production	108,387	1,599	2,718	1,962	2,012	8,292	=	116,678				
Other sources	-	-	-	-	-	-	=	=				
Imports	48,992	-	-	-	-	-	4,559	53,551				
Exports	-80,919	-11	-1,748	-961	-802	-3,522	-2,489	-86,930				
Marine bunkers	-	-	-	-	-	-	-	-				
Stock change (2)	-1,045					+17	+414	-614				
Transfers	=	-1,587	-967	-1,020	-	-3,575	+4,328	+753				
Total supply	75,415					1,212	6,812	83,438				
Statistical difference (3)(4)	-495					-322	+913	+96				
Total demand (4)	75,910					1,534	5,899	83,343				
Transformation (4)	75,910					1,534	5,899	83,343				
Electricity generation	-	-	-	-	-	-	-	-				
Major power producers	=	-	-	-	-	-	-	-				
Autogenerators	-	-	-	-	-	-	-	-				
Heat generation	-	-	-	-	-	-	-	-				
Petroleum refineries	75,910					1,534	5,899	83,343				
Coke manufacture	-	-	-	-	-	-	-	-				
Blast furnaces	-	-	-	-	-	-	-	-				
Patent fuel manufacture	-	-	-	-	-	-	-	-				
Other	-	-	-	-	-	-	-	-				
Energy industry use	-	-	-	-	-	-	-	-				
Electricity generation	-	-	-	-	-	-	-	-				
Oil & gas extraction (2)(5)	-	-	-	-	-	-	-	-				
Petroleum refineries	-	-	-	-	-	-	-	-				
Coal extraction	-	-	-	-	-	-	-	-				
Coke manufacture	-	-	-	-	-	-	-	-				
Blast furnaces	-	-	-	-	-	-	-	-				
Patent fuel manufacture	-	-	-	-	-	-	-	-				
Pumped storage	-	-	-	-	-	-	-	-				
Other	-	-	-	-	-	-	-	-				
Losses	-	-	-	-	-	-	-	-				

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry.

⁽²⁾ Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.(4) Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 2000⁽¹⁾

							Thous	Thousand tonnes										
	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total										
						NGL		primary oil										
Supply																		
Production	117,882	1,884	2,725	1,783	1,971	8,363	=	126,245										
Other sources	-	-	-	-	-	-	-	-										
Imports	48,868	-	-	=	-	-	5,519	54,386										
Exports	-86,533	-18	-1,810	-942	-779	-3,549	-2,836	-92,917										
Marine bunkers	-	-	-	-	-	-	=	-										
Stock change (2)	+1,171					-17	-56	+1,098										
Transfers	-	-1,411	-977	-995	-	-3,383	+3,493	+110										
Total supply	81,389					1,413	6,120	88,922										
Statistical difference (3)(4)	+698				••	-565	+480	+613										
Total demand (4)	80,691					1,978	5,640	88,308										
Transformation (4)	80,691					1,683	5,640	88,013										
Electricity generation	-	-	-	-	-	-	-	-										
Major power producers	-	-	-	-	-	-	-	-										
Autogenerators	-	-	-	-	-	-	-	-										
Heat generation	-	-	-	-	-	-	-	-										
Petroleum refineries	80,691				••	1,683	5,640	88,013										
Coke manufacture	-	-	-	-	-	-	-	-										
Blast furnaces	-	-	-	-	-	-	-	-										
Patent fuel manufacture	-	-	-	-	-	-	-	-										
Other	-	-	-	-	-	-	-	-										
Energy industry use	-	294	1	-	-	295	-	295										
Electricity generation	-	-	-	-	-	-	-	-										
Oil & gas extraction (5)	-	294	1	-	-	295	-	295										
Petroleum refineries	-	-	-	-	-	-	-	-										
Coal extraction	-	-	-	-	-	-	-	-										
Coke manufacture	-	-	-	-	-	-	-	-										
Blast furnaces	-	-	-	-	-	-	-	-										
Patent fuel manufacture	-	-	-	-	-	-	-	-										
Pumped storage	-	-	-	-	-	-	-	-										
Other	-	-	-	-	-	-	-	=										
Losses	-	-	-	-	-	-	-	-										

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry.

⁽²⁾ Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.(4) Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 1999⁽¹⁾

	Thousand tonnes										
	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total			
						NGL		primary oil			
Supply											
Production	128,262	2,022	2,853	2,005	1,957	8,837	=	137,099			
Other sources	-	-	-	-	-	-	=	-			
Imports	39,321	-	-	-	-	-	5,548	44,869			
Exports	-85,052	-36	-1,980	-1,154	-700	-3,870	-2,875	-91,797			
Marine bunkers	-	-	-	-	-	-	-	-			
Stock change (2)	-347					+17	+132	-198			
Transfers	=	-1,527	-865	-931	-	-3,323	+2,105	-1,218			
Total supply	82,184					1,661	4,910	88,755			
Statistical difference (3)(4)	+636					+42	-532	+146			
Total demand (4)	81,548					1,619	5,442	88,609			
Transformation (4)	81,548					1,296	5,442	88,286			
Electricity generation	-	-	-	-	-	-	-	-			
Major power producers	-	-	-	-	-	-	-	-			
Autogenerators	-	-	-	-	-	-	-	-			
Heat generation	-	-	-	-	-	-	-	-			
Petroleum refineries	81,548					1,296	5,442	88,286			
Coke manufacture	-	-	-	-	-	-	-	-			
Blast furnaces	-	-	-	-	-	-	-	-			
Patent fuel manufacture	-	-	-	-	-	-	-	-			
Other	-	-	-	-	-	-	-	-			
Energy industry use	-	316	7	-	-	323	-	323			
Electricity generation	-	-	-	-	-	-	-	-			
Oil & gas extraction (5)	-	316	7	-	-	323	-	323			
Petroleum refineries	-	-	-	-	-	-	-	-			
Coal extraction	-	-	-	-	-	-	-	-			
Coke manufacture	-	-	-	-	-	-	-	-			
Blast furnaces	-	-	-	-	-	-	-	-			
Patent fuel manufacture	-	-	-	-	-	-	-	-			
Pumped storage	-	-	-	-	-	-	-	-			
Other	-	-	-	-	-	-	=	-			
Losses	-	-	-	-	-	-	-	_			

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry. (2) Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.

⁽⁴⁾ Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 1998⁽¹⁾

							Thous	and tonnes
	Crude oil	Ethane	Propane	Butane	Condensate	Total	Feedstock	Total
						NGL		primary oil
Supply								
Production	124,222	1,646	3,031	2,000	1,734	8,411	-	132,633
Other sources	-	-	-	-	-	-	-	-
Imports	39,460	-	-	-	-	-	8,498	47,958
Exports	-79,651	-40	-1,842	-856	-640	-3,378	-1,581	-84,610
Marine bunkers	-	-	-	-	-	-	-	-
Stock change (2)	-622					-29	+58	-593
Transfers	-	-1,215	-1,071	-1,171	=	-3,457	+1,255	-2,202
Total supply	83,409					1,547	8,230	93,186
Statistical difference (3)(4)	-1,101					-163	+300	-964
Total demand (4)	84,510					1,710	7,930	94,150
Transformation (4)	84,510					1,357	7,930	93,797
Electricity generation	-	-	-	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-
Autogenerators	-	-	-	-	-	-	-	-
Petroleum refineries	84,510					1,357	7,930	93,797
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use	-	301	39	13	-	353	-	353
Electricity generation	-	-	-	-	-	-	-	-
Oil & gas extraction (4)	-	301	39	13	-	353	-	353
Oil & gas extraction (5)	-	-	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Losses	_	-	-	_	_	-	-	_

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and

⁽¹⁾ As there is no use made of primary oils and feedstocks by industries other than the oil and gas extraction and petroleum refining industries, other industry headings have not been included in this table. As such, this table is a summary of the activity of what is known as the Upstream oil industry.

⁽²⁾ Stock fall (+), stock rise (-).

⁽³⁾ Total supply minus total demand.

⁽⁴⁾ Figures for total demand for the individual NGLs (and thus for the statistical differences as well) are not available.

Commodity balances 2009 Petroleum products

	Ethana	Dranana	Butane	Othor	Nonhtho	Aviotion	Matax	White	d tonnes
	Ethane	Propane	butane	gases	Naphtha	spirit	Motor spirit	Spirit	Aviation turbine
								& SBP	fuel
Supply									
Production	-	1,544	569	2,932r	1,287r	-	20,404	61	6,022
Other sources	1,139	798	363	-	318	-	-	-	
Imports	-	230	283	-	1,034	26	2,774	127	7,532
Exports	-	-530	-129	-	-1,570r	-1	-7,811	-10	-1,451
Marine bunkers	-	-	. .	-		-	-	-	-
Stock change (2)	-	1	13	-	83	-2	30	-5	-7
Transfers	-	-	-	-	-179	-	198	-	-485
Total supply	1,139	2,044	1,098	2,932r	973	23	15,595	174	11,612
Statistical difference (3)	-	11	44	-3r	-38	1	-17	-0	79
Total demand	1,139	2,033r	1,054	2,936r	1,011	22	15,613	174	11,533
Transformation	-	5	-	246r	-	-	-	-	-
Electricity generation	-	-	-	246r	-	-	-	-	-
Major power producers	_	_	-	_	_	-	-	_	-
Autogenerators	_	_	-	246r	_	-	-	_	-
Heat generation	_	5	-	_	_	-	-	_	-
Petroleum refineries	_	-	-	-	_	-	-	-	_
Coke manufacture	_	-	-	-	_	-	-	-	_
Blast furnaces	_	_	_	_	_	_	_	_	_
Patent fuel manufacture	_	_	_	_	_	_	_	_	_
Other	_	_	_	_	_	_	_	_	_
Energy industry use	-	-	-	2,484r	-	-	-	_	-
Electricity generation	_	_	_	_,	_	_	_	_	_
Oil & gas extraction	_	_	_	_	_	_	_	_	_
Petroleum refineries	_	_	_	2,484r	_	_	_	_	_
Coal extraction			_	2,7071					
Coke manufacture	_		_		_	_		_	_
Blast furnaces	_		_		_	_		_	_
Patent fuel manufacture	_		_		_	_		_	_
Pumped storage	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Losses	-	-	-	-	-	-	-	-	-
									44 522
Final consumption	1,139	2,028 350	1,054 294	206r	1,011	22	15,613	174	11,533
Industry	-		294 293	-	-	-	-	-	-
Unclassified	-	346	293	-	-	-	-	-	-
Iron & steel	-	4	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-	-	-	-
Food, beverages, etc	-	-	-	-	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-	-	-	-	-
Paper, printing etc	-	-	-	-	-	-	-	-	-
Other industries	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	.	-	
Transport	-	107	-	-	-	22	15,613	-	11,533
Air	-	-	-	-	-	22	-	-	11,533
Rail	-	-	-	-	-	-	-	-	-
Road	-	107	-	-	-	-	15,613	-	-
National navigation	-	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	-	376	33	-	-	-	-	-	-
Domestic	-	278	33	-	-	-	-	-	-
Public administration	-	-	-	-	-	-	-	-	-
Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	98	-	-	-	-	-	-	-
Missellansson									
Miscellaneous		-	-					-	

Includes marine diesel oil.
 Stock fall (+), stock rise (-).
 Total supply minus total demand.

Commodity balances 2009 (continued) Petroleum products

	Total	Misc.	Petroleum	Bitu	Lubri	Fuel	Gas	DERV	Burning
	Products	products	coke	-men	-cants	oils	Oil ⁽¹⁾		oil
Supply	74.000*	4 204	2.070	4 000	F20	0.044	0.407	45.000	2.020
Production Other sources	74,828r 2,618	1,204	2,070	1,338	530	8,641	9,487	15,908	2,830
Imports	22,172	- 97	813	239	533	1,243	- 751	5,823	668
Exports	-25,491r	-707	-548	-324	-590	-5,547	-4,183	-1,850	-241
Marine bunkers	-3,807r	-	-	-	-	-2,150r	-1,657r	-	
Stock change (2)	320	24	-60	-11	10	82	-15	173	4
Transfers	-16	10	-	20	-29	-74	39	-4	487
Total supply	70,623r	627	2,274	1,262	455	2,194r	4,421r	20,049	3,749
Statistical difference (3)	-121r	54	-0	-119	-55	-28r	-3r	-63	17
Total demand	70,744r	573	2,274	1,381	510	2,223r	4,424r	20,112	3,732
Transformation	1,688r	-	502	-	-	876r	59r	-	-
Electricity generation	1,563r	-	502	-	-	760r	54r	-	-
Major power producers	1,128r	-	502	-	-	584	42	-	-
Autogenerators	435r	-	-	-	-	176r	13r	-	-
Heat generation	61r	-	-	-	-	52	4r	-	-
Petroleum refineries	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	64	-	-	-	-	64	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Other				-	-		<u>-</u>	-	-
Energy industry use	4,758r	-	1,223r	-	-	597r	454r	-	-
Electricity generation	45.4-	-	-	-	-	-	454	-	-
Oil & gas extraction	454r	-	4 222=	-	-	-	454r	-	-
Petroleum refineries	4,304r	-	1,223r	-	-	597r	-	-	-
Coal extraction Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	-	_	-	_	_	_		-	-
Patent fuel manufacture	_	_	_	_	_	_	_	_	_
Pumped storage	_	_	_	_	_	_	_	_	_
Other	-	_	_	_	_	_	-	_	-
Losses	-	-	-	_	_	-	-	-	-
Final Consumption	64,299r	573	550r	1,381	510	749r	3,911r	20,112	3,732
Industry	4,465r	-	-	-	-	421r	1,939r	-	1,462
Unclassified	2,693r	-	-	-	-	180r	412r	-	1,462
Iron & steel	7r	-	-	-	-	3r	-	-	-
Non-ferrous metals	1r	-	-	-	-	-	1r	-	-
Mineral products	250r	-	-	-	-	44r	206r	-	-
Chemicals	202r	-	-	-	-	68r	134r	-	-
Mechanical engineering e	-	-	-	-	-	-	-	-	-
Electrical engineering etc		-	-	-	-	-	-	-	-
Vehicles		-	-	-	-	-	254r	-	-
Food, beverages etc		-	-	-	-	123r	652r	-	-
Textiles, leather, etc		-	-	-	-	-	90r	-	-
Paper, printing etc	119r	-	-	-	-	- 1-	119r	-	-
Other industries	7r	-	-	-	-	1r	7r	-	-
Construction	64r 48,366r	-	-	-	-	- 212r	64r 767 r	20 112	-
Transport Air	48,366 r 11,555	-	-	-	-	213r	767r -	20,112	-
Rail	603r	-	-	-	-	-	- 603r	-	-
Road	35,832	-	-	-	-	-	-	20,112	-
National navigation	35,632 377r	-	-	-	-	213r	- 164r	20,112	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	3,858	_	-	_	_	115r	1,063r	_	2,270
Domestic	2,712r	_	_	_	_	-	131	_	2,270
Public administration	345	-	-	-	-	46r	298	_	_,
Commercial	334	-	-	-	-	51	283	_	-
Agriculture	255	_	-	-	-	8	148	_	-
						10r	203r	_	_
Miscellaneous	212r	-	-	-	-	101	2001		-

Commodity balances 2008 Petroleum products

	Ethana	Dranana	Butana	Othor	Nonhtho	Aviation	Matar	White	d tonnes
	Etnane	Propane	Butane	gases	Naphtha	Aviation	Motor spirit	White Spirit & SBP	Aviation turbine fuel
Supply								а оы	iuci
Production	_	1,614r	636	3,111r	1,863r	-0	20,319	55	6,549
Other sources	1,328	828r	586r	3,1111	432r	-0	20,319	-	0,543
Imports	1,320	224r	548	-	634	22	3,221	89r	7,961r
Exports		-565	-495	_	-2,055r	-2	-7,017	-4	-1,908
Marine bunkers		-303	-493		-2,0331	-2	-7,017		-1,900
Stock change (2)	_	_	70	_	-6	1	5	5	-154
Transfers	-	-	-54	-	-0 -4	1	17	-	-300
Total supply	1,328r	2,101r	1,291	3,111r	863	22	16,545	144r	12,148r
		•							
Statistical difference (3) Total demand	-r	-10r	11r	-1r	6r	-8 30	4r	-0	42.442=
	1,328	2,111r	1,280	3,112r	856r	30	16,542	145r	12,142r
Transformation	-	5	-	239r	-	-	-	-	-
Electricity generation	-	-	-	239r	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-	-
Autogenerators	-	-	-	239r	-	-	-	-	-
Heat generation	-	5	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Energy industry use	-	1r	-	2,743r	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-	-
Oil & gas extraction	-	-	-		-	-	-	-	-
Petroleum refineries	-	-	-	2,743r	-	-	-	-	-
Coal extraction	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	-	1r	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Losses			-						
Final consumption	1,328	2,106r	1,280	131r	856r	30	16,542	145r	12,142r
Industry	-	356	312	-	-	-	-	-	-
Unclassified	-	352	311	-	-	-	-	-	-
Iron & steel	-	4r	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-	-	-	-
Food, beverages, etc Textiles, leather, etc	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Paper, printing etc Other industries	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Transport	-	125	-	-	-	30	16,542	-	12,142r
Air	-	125	-	-	-	30	10,342	-	12,1421 12,142r
Rail	-		-	-	-	30	-	-	12,1421
Road	-	- 125	-	-	-	-	- 16,542	-	-
National navigation	-	120	-	-	-	-	10,042	-	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	-	401	33	-	-	-	-	-	-
Domestic	-	297	33 33	-	-	-	-	-	-
Public administration	-	291	- 33	-	-	-	-	-	-
Commercial	-	-	-	-	-	-	-	-	-
Agriculture		- 103r	-	-	-	-	-	-	-
Miscellaneous	<u>-</u>	1031		-	-	•	-	-	-
Non energy use (4)	4 000			404					
Non cheryy use (4)	1,328	1,224r	935	131r	856r	-	-	145r	-

Includes marine diesel oil.
 Stock fall (+), stock rise (-).
 Total supply minus total demand.

Commodity balances 2008 (continued) Petroleum products

Thousand tonn									
	Total	Misc.	Petroleum	Bitu	Lubri	Fuel	Gas	DERV	Burning
	Products	products	coke	-men	-cants	oils	Oil ⁽¹⁾		oil
Supply									
Production	80,563r	1,182	2,029	1,485	514	11,199r	10,566	16,350r	3,092
Other sources	3,174	-	-	-	-	-	-	-	-
Imports	23,741	145r	883	404r	448r	1,198r	855	6,583r	528
Exports	-28,803r	-769	-608	-195	-399	-7,304	-4,884	-2,385r	-213
Marine bunkers	-4,012r	-	_	_	-	-2,328r	-1,684r	-	-
Stock change (2)	50r	25r	-7	-7	-32	150	110	-115	5
Transfers	-207	25	-	5	-12	-186	-60	72	288
Total supply	74,506r	608r	2,296	1,692r	519r	2,729r	4,903r	20,505r	3,699
Statistical difference (3)	-110r	18r	1r	-49r	9r	-50r	-71r	5r	18r
Total demand	74,616r	590r	2,295r	1,741r	510r	2,779r	4,974r	20,501	3,681r
Transformation	1,845r	-	309	-	-	1,226r	66r	-	-
Electricity generation	1,575r	-	309	-	-	966r	61r	-	-
Major power producers	1,150r	-	309	-	-	790	50	-	-
Autogenerators	426	-	-	-	-	176r	11r	-	-
Heat generation	62	-	-	-	-	52	5	-	-
Petroleum refineries	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	208	-	-	-	-	208	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Energy industry use	5,170r	-	1,248r	-	-	716r	463r	-	-
Electricity generation	-	-	-	-	-	-	-	-	-
Oil & gas extraction	463r	-	-	-	-	-	463r	-	-
Petroleum refineries	4,706r	_	1,248r	_	_	715r	_	_	-
Coal extraction	-	_	-,	_	_	-	_	_	-
Coke manufacture	_	_	_	_	_	_	_	_	_
Blast furnaces	1r	_	_	_	_	_	_	_	_
Patent fuel manufacture	-	_	_	_	_	_	_	_	_
Pumped storage	_	_	_	_	_	_	_	_	_
Other	_	_	_	_	_	_	_	_	_
Losses	_	_	_	_	_	_	_	_	_
Final Consumption	67,601r	590r	738r	1,741	510	837r	4,444r	20,501	3,681r
Industry	4,835r	-	7301	1,771	310	423r	2,299r	-	1,445r
Unclassified	2,768r	_		_		115r	544r	_	1,445r
Iron & steel	2,700i 5r	-		_	_	1131 1r	-	_	1,4451
Non-ferrous metals	4r			_	_	- "	4r	_	_
Mineral products	669r	_	_	-	_	87r	583r	_	_
Chemicals	232r	-	-	-	-	107r	125r	-	-
		-	-	-	-			-	-
Mechanical engineering etc	1	-	-	-	-	1r	-	-	-
Electrical engineering etc	160r	-	-	-	-	-	- 150r	-	-
Vehicles		-	-	-	-	4	158r	-	-
Food, beverages etc		-	-	-	-	107r	532r	-	-
Textiles, leather, etc	67r	-	-	-	-	-	67r	-	-
Paper, printing etc	172r	-	-	-	-	-	172r	-	-
Other industries	14r	-	-	-	-	-	14r	-	-
Construction	101r	-	-	-	-	-	101r	-	-
Transport	50,340r	-	-	-	-	230r	771r	20,501	-
Air	12,172	-	-	-	-	-	-	-	-
Rail	605r	-	-	-	-	-	605r	<u>.</u>	-
Road	37,167	-	-	-	-	-	-	20,501	-
National navigation	397r	-	-	-	-	230r	167r	-	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	4,026	-	-	-	-	183r	1,173r	-	2,236r
Domestic	2,730r	-	-	-	-	-	164	-	2,236r
Public administration	433	-	-	-	-	71r	362	-	-
Commercial	372	-	-	-	-	77	295	-	-
	267	_	_	_	_	24	140	-	-
Agriculture	_0,								
Agriculture Miscellaneous	223r		<u> </u>			11r	211r		

Commodity balances 2007 Petroleum products

									d tonnes
	Ethane	Propane	Butane	Other	Naphtha	Aviation	Motor	White	Aviation
				gases		spirit	spirit	Spirit & SBP	turbine fuel
Supply								a obi	iuei
Production	_	1,697	601	2,737	2,561	0	21,313	70	6,176
Other sources	1,203	861	362	2,707	328	-	21,010	-	0,170
Imports	1,200	386	473	8	1,713	21	3,495	107	7,708
Exports	-0	-979	-578	-	-3,014	-4	-7,331	-7	-1,221
Marine bunkers	-	-	-	_		-	- 7,001		- 1,221
Stock change (2)	2	11	111	0	69	5	106	2	182
Transfers	-	-0	-40	8	14	8	60	-1	-338
Total supply	1,204	1,976	929	2,752	1,671	30	17,643	171	12,507
Statistical difference (3)	8	22	17	-86	64	-3	28	4	-67
Total demand	1,197	1,955	911	2,838	1,608	33	17,615	167	12,574
Transformation	1,131		- 311		•				12,374
	-	4	-	251	-	-	-	-	-
Electricity generation	-	-		251	-	-	-	-	-
Major power producers	-	-	-	- 251	-	-	-	-	-
Autogenerators	-	4	-	231	-	-	-	-	-
Heat generation Petroleum refineries	-	4	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Energy industry use		39		2,220					-
Electricity generation	-	-	-	2,220	-	-	-	-	
Oil & gas extraction	_	_	_		_	_	_	_	
Petroleum refineries	_	39	_	2,220	_	_	_	_	_
Coal extraction	_	-	_	2,220	_	_	_	_	_
Coke manufacture	_	_	_	_	_	_	_	_	_
Blast furnaces	_	_	_	_	_	_	_	_	
Patent fuel manufacture	_	_	_	_	_	_	_	_	_
Pumped storage	_	_	_	_	_	_	_	_	_
Other	_	_	_	_	_	_	_	_	_
Losses	-	-	-	-	-	-	-	-	-
Final consumption	1,197	1,912	911	367	1,608	33	17,615	167	12,574
Industry	49	660	194		-	-	-	-	-
Unclassified	49	660	194	-	-	-	-	-	-
Iron & steel	-	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-	-	-	-
Food, beverages, etc	-	-	-	-	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-	-	-	-	-
Paper, printing etc	-	-	-	-	-	-	-	-	-
Other industries	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Transport	-	119	-	-	-	33	17,615	-	12,574
Air	-	-	-	-	-	33	-	-	12,574
Rail	-		-	-	-	-		-	-
Road	-	119	-	-	-	-	17,615	-	-
National navigation	-	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	-	323	26	-	-	-	-	-	-
Domestic	-	225	26	-	-	-	-	-	-
Public administration	-	-	-	-	-	-	-	-	-
Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	98	-	-	-	-	-	-	-
Miscellaneous			-			-	-	-	-
Non energy use (4)	1,148	811	691	367	1,608	-	-	167	-

Includes marine diesel oil.
 Stock fall (+), stock rise (-).
 Total supply minus total demand.

Commodity balances 2007 (continued) Petroleum products

urning	DERV	Gas	Fuel	Lubri	Bitu	Petroleum	Misc.	Total	
oil		Oil ⁽¹⁾	oils	-cants	-men	coke	products	Products	
									Supply
2,968	16,138	10,165	11,452	547	1,628	2,074	1,058	81,184	Production
-	-	-	-	-	-	-	-	2,754	Other sources
551	6,571	1,388	1,141	375	477	485	210	25,110	Imports
-356	-1,357	-5,160	-7,739	-194	-532	-613	-898	-29,983	Exports
-	-	-901	-1,471	-	-	-	-	-2,371	Marine bunkers
33	195	267	137	-47	26	-4	-23	1,073	Stock change (2)
363	-254	14	-419	33	9	-0	-3	-547	Transfers
3,560	21,293	5,773	3,102	715	1,607	1,942	344	77,220	Total supply
-68	255	-344	-126	43	44	0	6	-204	Statistical difference (3)
3,628	21,038	6,117	3,228	672	1,563	1,942	338	77,424	Total demand
-	-	70	884	-	-	178	-	1,388	Transformation
-	-	65	631	-	-	178	_	1,126	Electricity generation
-	_	51	492	-	_	178	_	721	Major power producers
_	_	14	140	_	_	-	_	405	Autogenerators
_	_	5	52	_	_	_	_	61	Heat generation
_	_	-	52	_	_	_	_	01	Petroleum refineries
-	-	-	-	-	-	-	-	-	
-	-		-	-	-	-	-	- 004	Coke manufacture
-	-	-	201	-	-	-	-	201	Blast furnaces
-	-	-	-	-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	-	-	-	-	Other
-	-	405	1,019	-	-	1,398	-	5,080	Energy industry use
-	-	-	-	-	-	-	-	-	Electricity generation
-	-	404	-	-	-	-	-	404	Oil & gas extraction
-	-	-	1,019	-	-	1,398	-	4,676	Petroleum refineries
_	-	-	_	-	-	-	-	_	Coal extraction
_	_	_	_	-	_	_	_	_	Coke manufacture
_	_	_	_	_	_	_	_	_	Blast furnaces
				_	_	_	_	_	Patent fuel manufacture
	_	_	_	_	_	_	_	_	
-	-	-	-	-	-	-	-	-	Pumped storage
-	-	-	-	-	-	-	-		Other
	-		4.005		4.500				Losses
3,628	21,038	5,642	1,325	672	1,563	366	338	70,956	Final Consumption
1,434	-	2,557	639	-	-	-	-	5,534	Industry
1,434	-	-	-	-	-	-	-	2,337	Unclassified
-	-	-	64	-	-	-	-	64	Iron & steel
-	-	20	25	-	-	-	-	46	Non-ferrous metals
-	-	180	41	-	-	-	-	221	Mineral products
-	-	104	76	-	-	-	-	180	Chemicals
-	-	81	18	-	-	-	-	99	Mechanical engineering et
_	_	25	8	_	_	_	_	33	Electrical engineering etc
_	_	91	23	_	_	_	_	114	Vehicles
_	_	208	55	_	_	_	_	263	Food, beverages etc
-	-			-	-	-	-		Textiles, leather, etc
-	-	100	10	-	-	-	-	110	, ,
-	-	30	32	-	-	-	-	62	Paper, printing etc
-	-	1,583	265	-	-	-	-	1,849	Other industries
-	-	135	21	-	-	-	-	156	Construction
-	21,038	1,537	569	-	-	-	-	53,485	Transport
-	-	-	-	-	-	-	-	12,607	Air
-	-	594	-	-	-	-	-	594	Rail
-	21,038	-	-	-	-	-	-	38,772	Road
-	-	942	569	-	-	-	-	1,511	National navigation
-	-	-	-	-	-	-	-	-	Pipelines
2,194	-	1,310	117	-	-	_	_	3,970	Other
2,170	_	173		_	_	_	_	2,594	Domestic
12	_	393	45	_	_	_		450	Public administration
12	-	323		-	-	-	-	378	
10	-		55 10	-	-	-	-		Commercial
12	-	143	10 7	-	-	-	-	262 286	Agriculture
		.) / 🔾	/	_	_	_	_	286	
-		278 238	- '	672	1,563			7,967	Miscellaneous Non energy use (4)

Commodity balances 2006 Petroleum products

									d tonnes
	Ethane	Propane	Butane	Other gases	Naphtha	Aviation spirit	Motor spirit	White Spirit	Aviation turbine
								& SBP	fuel
Supply									
Production	0	1,737	406	3,102	2,734	25	21,443	107	6,261
Other sources	1,264	848	484	-	427	-	-	-	-
Imports	12	275	545	0	2,003	16	3,799	82	7,983
Exports	-13	-683	-463	-	-2,925	-3	-6,933	-2	-995
Marine bunkers	-	-	-	-	-	-	-	-	-
Stock change (2)	-2	-1	-39	0	-32	-6	-29	-27	-256
Transfers	-	-	-26	-	67	15	15	-	-404
Total supply	1,262	2,176	906	3,103	2,275	47	18,295	159	12,589
Statistical difference (3)	5	-39	-44	-2	-3	2	204	3	-52
Total demand	1,257	2,215	950	3,105	2,278	46	18,091	156	12,641
Transformation	-	4	_	206	-	_	_	-	_
Electricity generation	_	-	_	206	_	_	_	_	_
Major power producers	_	_	_	-	_	_	_	_	_
Autogenerators	_	_	_	206	_	_	_	_	_
Heat generation	_	4	_	-	_	_	_	_	_
Petroleum refineries	_		_	_	_	_	_	_	_
Coke manufacture	_	-	-	-	_	-	_	_	_
Blast furnaces	_	-	-	-	_	-	_	_	-
Patent fuel manufacture	_	_	_	_	_	_	_	_	_
Other	_	_	_	_	_	_	_	_	_
Energy industry use		38	-	2,441		_			
Electricity generation	_	-	_	_,	_	_	_	_	_
Oil & gas extraction	_	_	_	_	_	_	_	_	_
Petroleum refineries	_	38	_	2,441	_	_	_	_	_
Coal extraction	_	-	_	2,	_	_	_	_	_
Coke manufacture	_	_	_	_	_	_	_	_	_
Blast furnaces	_	_	_	_	_	_	_	_	_
Patent fuel manufacture	_	_	_	_	_	_	_	_	_
Pumped storage			_			_			
Other	_	_	_	_	_	_	_	_	
Losses	_	_	_	_	_	_	_	_	_
Final consumption	1,257	2,173	950	457	2,278	46	18,091	156	12,641
Industry	66	667	179	-	2,210		-	- 130	12,041
Unclassified	66	667	179	-	_		-	-	
Iron & steel	-	-	-			_			
Non-ferrous metals	_	_	_	_	_	_	_	_	_
Mineral products	_	_	_	_	_	_	_	_	_
Chemicals	_	_	_	_	_	_	_	_	_
Mechanical engineering, etc			_			_			
Electrical engineering, etc	_	_	_	_	_	_	_	_	
Vehicles	_	_	_	_	_	_	_	_	_
Food, beverages, etc	_	_	_	_	_	_	_	_	_
Textiles, leather, etc	_	_	_	_	_	_	_	_	_
Paper, printing etc	_	_	_	_	_	_	_	_	_
Other industries	_	_	_	_	_	_	_	_	_
Construction	_	_	_	_	_	_	_	_	_
Transport	_	126	_	_	_	46	18,091	_	12,641
Air	_	120	_	_	_	46	10,031	_	12,641
Rail	_	_	_	_	_		_	_	12,041
Road	-	126	-	-	-	_	18,091	-	-
National navigation	-	120	-	-	-	-	10,031	-	-
Pipelines	-	-	-	-	-	_		-	-
Other	_	386	34	-	_	-	_	_	
Domestic	-	281	34 34	-	-	- -	-	-	-
Public administration	-	201	-	-	-	_	-	-	-
Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	- 105	-0	-	-	-	-	-	-
Miscellaneous	-	100	-0	-	-	-	-	-	-
Non energy use (4)	4 404			457	2 220			450	
Hon energy use (4)	1,191	994	737	457	2,278	-	-	156	-

Includes marine diesel oil.
 Stock fall (+), stock rise (-).
 Total supply minus total demand.

Commodity balances 2006 (continued) Petroleum products

Burning	DERV	Gas	Fuel	Lubri	Bitu	Petroleum	Misc.	Total	
oil		Oil ⁽¹⁾	oils	-cants	-men	coke	products	Products	
									Supply
3,374	15,821	10,259	12,277	617	1,749	1,964	964	82,839	Production
-,	-	-	-,	-	-	-	-	3,024	Other sources
670	7,125	938	1,332	505	404	869	277	26,836	Imports
-314	-1,130	-4,690	-8,368	-401	-628	-559	-839	-28,945	Exports
-	· -	-1,035	-1,313	-	-	-	-	-2,348	Marine bunkers
-105	-201	-82	-146	25	11	-15	49	-856	Stock change (2)
403	-	-205	-573	-1	22	-	4	-683	Transfers
4,028	21,615	5,185	3,209	745	1,558	2,260	455	79,866	Total supply
12	1,454	-1,384	-39	32	-52	-23	18	93	Statistical difference (3)
4,016	20,161	6,569	3,248	713	1,610	2,283	437	79,774	Total demand
-	-	115	1,205	-	-	-	-	1,530	Transformation
-	-	110	922	-	-	-	-	1,238	Electricity generation
-	-	87	723	-	-	-	-	810	Major power producers
-	-	22	200	-	-	-	-	428	Autogenerators
-	-	6	53	-	-	-	-	62	Heat generation
-	-	-	-	-	-	-	-	-	Petroleum refineries
-	-	-	-	-	-	-	-	-	Coke manufacture
-	-	-	230	-	-	-	-	230	Blast furnaces
-	-	-	-	-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	-	-	-	-	Other
-	-	473	997	-	-	1,358	-	5,307	Energy industry use
-	-	-	-	-	-	-	-	-	Electricity generation
-	-	430	-	-	-	-	-	430	Oil & gas extraction
-	-	44	997	-	-	1,358	-	4,878	Petroleum refineries
-	-	-	-	-	-	-	-	-	Coal extraction
-	-	-	-	-	-	-	-	-	Coke manufacture
-	-	-	-	-	-	-	-	-	Blast furnaces
-	-	-	-	-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	-	-	-	-	Pumped storage
-	-	-	-	-	-	-	-	-	Other
-	-	-	-	-	-	-	-	-	Losses
4,016	20,161	5,980	1,046	713	1,610	925	437	72,936	Final Consumption
1,552	-	2,629	427	-	-	-	-	5,521	Industry
1,552	-	-	-	-	-	-	-	2,465	Unclassified
-	-	0	19	-	-	-	-	19	Iron & steel
-	-	22	28	-	-	-	-	50	Non-ferrous metals
-	-	183	1	-	-	-	-	184	Mineral products
-	-	105	72	-	-	-	-	176	Chemicals
-	-	81	18	-	-	-	-	98	Mechanical engineering et
-	-	70	9	-	-	-	-	78	Electrical engineering etc
-	-	92	22	-	-	-	-	115	Vehicles
-	-	219	42	-	-	-	-	261	Food, beverages etc
	-	110	11	-	-	-	-	121	Textiles, leather, etc
-		23	33	-	-	-	-	56	Paper, printing etc
-	-	20					_	1,738	Other industries
- - -	-		154	-	-	-			
- - -	-	1,584 141	154 19	-	-	-	_	161	Construction
- - - -	- - - 20,161	1,584 141		- - -	-	-	-	161 53,333	Construction Transport
- - - -	- - 20,161	1,584	19	- - -	- - -	- - -	- -		
- - - - -	20,161 - -	1,584 141	19	- - -	- - -	- - - -	- - -	53,333	Transport
- - - - -	20,161 - 20,161	1,584 141 1,765	19	- - - -	- - - - -	- - - -	-	53,333 12,686	Transport Air
- - - - -	-	1,584 141 1,765	19	- - - - -	- - - -	- - - - -	-	53,333 12,686 580	Transport Air Rail Road
- - - - - -	-	1,584 141 1,765 - 580	19 504 - -	- - - - -	- - - - -	- - - - -	- - -	53,333 12,686 580 38,378	Transport Air Rail
- - - - - - - - - - - - - - - - - - -	-	1,584 141 1,765 - 580 - 1,185	19 504 - -	- - - - - -	- - - - - -	-	- - -	53,333 12,686 580 38,378 1,689	Transport Air Rail Road National navigation
- - - - - - - - - - 2,464 2,440	-	1,584 141 1,765 - 580	19 504 - - - 504	-	-	-	- - -	53,333 12,686 580 38,378 1,689 - 4,326	Transport Air Rail Road National navigation Pipelines
	-	1,584 141 1,765 580 - 1,185	19 504 - - - 504	-	-	-	- - -	53,333 12,686 580 38,378 1,689	Transport Air Rail Road National navigation Pipelines Other
2,440	20,161	1,584 141 1,765 580 - 1,185 1,328 171 394	19 504 - - 504 - 114 - 46	-	-	-	- - -	53,333 12,686 580 38,378 1,689 - 4,326 2,927 452	Transport Air Rail Road National navigation Pipelines Other Domestic Public administration
2,440 12 -	20,161	1,584 141 1,765 580 - 1,185 1,328 171 394 314	19 504 - - 504 - 114 - 46 50	-	-		- - -	53,333 12,686 580 38,378 1,689 - 4,326 2,927 452 364	Transport Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial
2,440 12	20,161	1,584 141 1,765 580 - 1,185 1,328 171 394	19 504 - - 504 - 114 - 46	-	-	-	- - -	53,333 12,686 580 38,378 1,689 - 4,326 2,927 452	Transport Air Rail Road National navigation Pipelines Other Domestic Public administration

Commodity balances 2005 Petroleum products

	Ethana	Dronono	Butane	Othor	Nonhtho	Aviation	Motor	White	d tonnes
	Ethane	Propane	butane	gases	Naphtha	spirit	Motor spirit	Spirit	Aviation turbine
Sah.								& SBP	fuel
Supply	_	4 70 4	540	0.000	0.000	00	00.004	400	E 407
Production	5	1,704	518	2,996	3,023	32	22,604	136	5,167
Other sources	1,398	857	500	407	632	-	-	-	-
Imports	-	281	502	137	1,380	13	2,310	224	9,083
Exports	-	-748	-550	-	-3,167	-3	-6,586	-63	-1,397
Marine bunkers	-	-	-	-	-	-	-	-	-
Stock change (2)	6	66	49	1	284	-2	410	-2	96
Transfers	0	-5	2	-3	32	14	-4	3	-343
Total supply	1,409	2,154	1,021	3,130	2,186	53	18,734	298	12,606
Statistical difference (3)	-50	-127	-50	-6	266	1	-118	13	109
Total demand	1,459	2,282	1,071	3,136	1,919	52	18,852	284	12,497
Transformation	-	4	-	182	-	-	-	-	-
Electricity generation	-	-	-	182	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-	-
Autogenerators	-	-	-	182	-	-	-	-	-
Heat generation	-	4	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	_	-	-
Coke manufacture	-	-	-	-	-	-	_	-	-
Blast furnaces	-	_	-	_	_	_	-	_	-
Patent fuel manufacture	-	-	-	-	-	-	_	-	-
Other	_	_	_	_	_	_	_	_	_
Energy industry use	5	38	_	2,569	3	_	-	_	_
Electricity generation		-	_	_,	-	_	_	_	_
Oil & gas extraction	_	_	_	_	_	_	_	_	_
Petroleum refineries	5	38	_	2,569	3	_	_	_	_
Coal extraction	-	-	_	_,000	-	_	_	_	_
Coke manufacture	_	_	_	_	_	_	_	_	_
Blast furnaces	_	_	_	_	_	_	_	_	_
Patent fuel manufacture	_	_	_	_	_	_	_	_	_
Pumped storage	_	_	_	_	_	_	_	_	_
Other	_	_	_	_	_	_	_	_	_
Losses	_	_	_	_	_	_	_	_	_
Final consumption	1,454	2,240	1,071	384	1,916	52	18,852	284	12,497
Industry	71	628	161		1,510		- 10,002		12,431
Unclassified	71	628	161	_	_	_	_	_	_
Iron & steel		020	-	_	_	_	_	_	_
Non-ferrous metals	_	_	_	_	_	_	_	_	_
Mineral products	_	_	_	_	_	_	_	_	_
Chemicals	_	_	_	_	_	_	_	_	_
Mechanical engineering, etc	_	_	_	_	_	_	_	_	_
Electrical engineering, etc	_	_	_	_	_	_	_	_	_
Vehicles	_	_	_	_	_	_	_	_	_
Food, beverages, etc	_	_	_	_	_	_	_	_	_
Textiles, leather, etc	-	-	-	-	-	-	-	-	-
Paper, printing etc	-	-	-	-	-	-	-	-	-
Other industries	_	_	_	_	_	_	_	_	_
Construction	-	-	-	-	-	-	-	-	-
	-	120	-	-	-	52	18,852	-	12 407
Transport Air	-	120	-	-	-	52 52	10,002	-	12,497 12,497
Rail	-	-	-	-	-		-	-	12,497
	-	120	-	-	-	-	10 052	-	-
Road	-	120	-	-	-	-	18,852	-	-
National navigation	-	-	-	-	-	-	-	-	-
Pipelines	-	404	-	-	-	-	-	-	-
Other	-	404	9	-	-	-	-	-	-
Domestic Dublic administration	-	289	9	-	-	-	-	-	-
Public administration	-	-	-	-	-	-	-	-	-
Commercial	-		-	-	-	-	-	-	-
Agriculture	-	115	-	-	-	-	-	-	-
Miscellaneous	-	-	-	-	-	-	-	-	-
Non energy use (4)	1,383	1,088	901	384	1,916	-	-	284	_

Includes marine diesel oil.
 Stock fall (+), stock rise (-).
 Total supply minus total demand.

Commodity balances 2005 (continued) Petroleum products

									Thousand tonne
Burning	DERV	Gas	Fuel	Lubri	Bitu	Petroleum	Misc.	Total	
oil		Oil ⁽¹⁾	oils	-cants	-men	coke	products	Products	
0.005	40.050	0.005	44.700	000	4.040	4 007	4 400	05 747	Supply
3,325	19,056	9,635	11,728	936	1,912	1,867	1,103	85,747	Production
407	2 1 1 6	1 900	- 1,530	- 424	- 216	047	- 70	3,387	Other sources
407	3,146	1,809				947	-638	22,481	Imports
-282 -	-1,935	-4,379 -889	-8,452 -1,166	-709 -	-242	-570 -	-030	-29,722 -2,055	Exports Marine bunkers
44	-2	390	266	77	51	174	29	1,937	Stock change (2)
333	-39	-224	-92	-2	24	1/-	-30	-334	Transfers
3,827	20,227	6,343	3,813	727	1,961	2,417	533	81,440	Total supply
-42	850	-582	3,613	-23	55	168	-22	476	Statistical difference (3)
3,869	19,377	6,924	3,779	750	1,906	2,249	556	80,963	Total demand
	•	•						•	
-	-	105	1,310	-	-	-	-	1,601	Transformation
-	-	99	987	-	-	-	-	1,268	Electricity generation
-	-	60 39	732 254	-	-	-	-	793 475	Major power producers
-	-		254 52	-	-	-	-	62	Autogenerators
-	-	6	52	-	-	-	-	62	Heat generation Petroleum refineries
-	-	-	-	-	-	-	-	-	Coke manufacture
-	-	-	- 271	-	-	-	-	- 271	Blast furnaces
_	_	-	2/ 1	_	_	_	_	-	Patent fuel manufacture
_	_	_	_	_	_	_	_	_	Other
		681	1,573			1,207		6,076	Energy industry use
_	_	-	1,373	_	_	1,207	_	- 0,070	Electricity generation
_	_	475	_	_	_	_	_	475	Oil & gas extraction
_	_	206	1,573	_	_	1,207	_	5,601	Petroleum refineries
_	_		-,0.0	_	_	-,20.	_	-	Coal extraction
_	_	_	_	_	_	_	_	_	Coke manufacture
_	_	_	_	_	_	_	_	_	Blast furnaces
_	-	-	-	-	_	-	-	_	Patent fuel manufacture
_	-	-	-	-	_	-	-	_	Pumped storage
-	-	-	-	-	-	-	-	-	Other
-	-	-	-	-	-	-	-	-	Losses
3,869	19,377	6,138	897	750	1,906	1,042	556	73,286	Final Consumption
1,502	-	2,887	441	-	-	-	-	5,690	Industry
1,502	-	-	-	-	-	-	-	2,361	Unclassified
-	-	0	16	-	-	-	-	16	Iron & steel
-	-	28	23	-	-	-	-	50	Non-ferrous metals
-	-	199	3	-	-	-	-	202	Mineral products
-	-	109	82	-	-	-	-	191	Chemicals
-	-	90	20	-	-	-	-	110	Mechanical engineering etc
-	-	26	7	-	-	-	-	34	Electrical engineering etc
-	-	109	21	-	-	-	-	130	Vehicles
-	-	259	44	-	-	-	-	303	Food, beverages etc
-	-	93	10	-	-	-	-	103	Textiles, leather, etc
-	-	54	32	-	-	-	-	86	Paper, printing etc
-	-	1,760	168	-	-	-	-	1,928	Other industries
-	-	159	16	-	-	-	-	175	Construction
-	19,377	1,501	355	-	-	-	-	52,755	Transport
-	-	-	-	-	-	-	-	12,549	Air
-	-	581	-	-	-	-	-	581	Rail
-	19,377	-	- 255	-	-	-	-	38,350	Road
-	-	920	355	-	-	-	-	1,274	National navigation
2 200	-	1 500	404	-	-	-	-	4 400	Pipelines
2,368	-	1,522	101	-	-	-	-	4,403	Other
2,344	-	141 444	-	-	-	-	-	2,783 499	Domestic Public administration
12	-	315	43 43	-	-	-	-	499 358	
	-	208	43 5	-	-	-	-	358 340	Commercial Agriculture
12		200	5	-		-	-	340	CONTRACTOR
12	_			_	_				_
12 - -	-	413 229	10	- 750	1,906	1,042	- 556	423 10,439	Miscellaneous Non energy use (4)

Commodity balances 2004 Petroleum products

								Thousan	d tonnes
	Ethane	Propane	Butane	Other gases	Naphtha	Aviation spirit	Motor spirit	White Spirit	Aviation turbine
Supply								& SBP	fuel
Production	15	1 704	276	2.012	2 176	21	24 500	100	E 61E
	15	1,794 828	376	3,012	3,176	31 -	24,589	100	5,615
Other sources	1,417	o∠o 245	645 245		835 871				7.650
Imports Exports	-	-621	-411	34 -	-2,940	19 -8	2,175 -7,334	210 -62	7,658 -983
Marine bunkers	-	-021	-411	-	-2,940	-0	-1,334	-02	-903
Stock change (2)	-	-15	-19	0	-109	1	-40	2	-112
Transfers	-	-13	42	-1	79	0	-40 -11	23	-345
Total supply	1,432	2,193	879	3,045	1,911	44	19,380	273	11,834
Statistical difference (3)	-7	-26	-36	59	-125	-6	-105	-8	11,634
Total demand	1,439	2,219	914	2,986	2,036	49	19,484	281	11,637
									11,037
Transformation	-	-	-	181 181	-	-	-	-	-
Electricity generation	-	-	-	101	-	-	-	-	-
Major power producers	-	-			-	-	-	-	-
Autogenerators	-	-	-	181	-	-	-	-	-
Heat generation Petroleum refineries	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Other	_	-	-	-	_	_	_	-	_
Energy industry use	15	19		2,492	7				
Electricity generation	-	-	_	2,432		_	_	_	_
Oil & gas extraction	_	_	_	_	_	_	_	_	_
Petroleum refineries	15	19	_	2,492	7	_	_	_	_
Coal extraction	-	-	_	2,402	,	_	_	_	_
Coke manufacture	_	_	_	_	_	_	_	_	_
Blast furnaces	_	_	_	_	_	_	_	_	_
Patent fuel manufacture	_	_	_	_	_	_	_	_	_
Pumped storage	_	_	_	_	_	_	_	_	_
Other	_	_	_	-	_	_	_	_	_
Losses	-	_	-	-	-	-	-	-	-
Final consumption	1,424	2,200	914	313	2,029	49	19,484	281	11,637
Industry	76	592	190	-	-,020	-	-		
Unclassified	76	592	190	-	_	-	-	-	-
Iron & steel	_	-	_	_	-	_	-	-	-
Non-ferrous metals	_	-	_	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-	-	-	_
Food, beverages, etc	-	-	-	-	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-	-	-	-	-
Paper, printing etc	-	-	-	-	-	-	-	-	-
Other industries	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Transport	-	112	-	-	-	49	19,484	-	11,637
Air	-	-	-	-	-	49	-	-	11,637
Rail	-	-	-	-	-	-	-	-	-
Road	-	112	-	-	-	-	19,484	-	-
National navigation	-	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	-	391	45	-	-	-	-	-	-
Domestic	-	285	45	-	-	-	-	-	-
Public administration	-	-	-	-	-	-	-	-	-
Commercial	-	<u>-</u>	-	-	-	-	-	-	-
Agriculture	-	106	-	-	-	-	-	-	-
Miscellaneous	-	-	-	-	-	-	-	-	-
Non energy use (4)	1,348	1,106	680	313	2,029	-	-	281	-

⁽¹⁾ Includes marine diesel oil.
(2) Stock fall (+), stock rise (-).
(3) Total supply minus total demand.

Commodity balances 2004 (continued)

249

914

1,991

Burning	Gas/	Fuel	Lubri	Bitu	Petroleum	Misc.	Total	
oil	Diesel Oil	oils	-cants	-men	coke	products	Products	
	Oii							Supply
3,613	28,839	12,988	1,136	2,196	1,645	702	89,828	Production
-	-	-	-	-	-	-	3,724	Other sources
360	4,216	612	530	227	1,081	61	18,545	Imports
-413	-6,623	-8,936	-750	-336	-598	-480	-30,495	Exports
-	-1,073	-1,012	-	-	-	-	-2,085	Marine bunkers
-58	-268	-46	-14	-11	31	368	-289	Stock change (2)
413	-393	-19	-3	22		27	-203	Transfers
3,915	24,698	3,586	900	2,098	2,160	678	79,025	Total supply
-35	-38	-157	-15	108	2	151	-41	Statistical difference (3)
3,950	24,736	3,743	914	1,991	2,157	527	79,066	Total demand
-	82	694	-	-	-	-	958	Transformation
=	67	345	-	=	-	-	593	Electricity generation
-	11	136	-	-	-	-	147	Major power producers
-	56	209	-	-	=	=	446	Autogenerators
-	16	52	-	-	-	-	68	Heat generation
-	-	-	-	-	-	-	-	Petroleum refineries
-	-	-	-	-	-	-	-	Coke manufacture
-	-	297	-	-	-	-	297	Blast furnaces
-	-	-	-	-	-	-	-	Patent fuel manufacture Other
	192	1,681			1,012		5,419	Energy industry use
_	132	1,001	_	_	1,012	_	5,419	Electricity generation
_	_	_	_	_	_	_	_	Oil & gas extraction
_	192	1,680	_	_	1,012	_	5,417	Petroleum refineries
_	-	-	_	_	-	_	-	Coal extraction
_	_	1	_	_	_	_	1	Coke manufacture
_	-		-	_	_	_	-	Blast furnaces
_	_	-	-	_	_	-	_	Patent fuel manufacture
_	_	_	-	-	-	=	=	Pumped storage
-	-	-	-	-	_	-	_	Other
-	-	-	-	-	-	-	-	Losses
3,950	24,462	1,368	914	1,991	1,146	527	72,690	Final Consumption
1,465	3,008	971	-	-	-	-	6,303	Industry
1,465	-	-	-	-	-	-	2,324	Unclassified
-	2	31	-	-	-	-	33	Iron & steel
-	27	23	-	-	-	=	49	Non-ferrous metals
-	171	15	-	-	-	-	186	Mineral products
-	116	73	-	-	-	-	189	Chemicals
-	90	18	-	-	-	-	108	Mechanical engineering et
-	22	13	-	-	-	-	35	Electrical engineering etc
-	79	22	-	-	-	-	101	Vehicles
-	261	58	-	-	-	-	319	Food, beverages etc
-	58	10	-	-	=	=	68	Textiles, leather, etc
-	27	28	-	-	=	=	55	Paper, printing etc
-	2,012	680	-	-	-	-	2,692	Other industries
40	143	-	-	-	-	-	143	Construction
12	19,988	266	-	-	-	-	51,549	Transport
12	630	-	-	-	-	-	11,686 642	Air Rail
-	18,514	-	-	-	-	-	38,110	Road
-	844	266	-	-	-	-	1,110	National navigation
-	044	∠00	-	-	-	-	1,110	Pipelines
2,472	1,216	130	-	-	-	-	4,254	Other
2,472 2,448	1,216	130	-	<u>-</u>	<u>-</u>	- -	4,234 2,938	Domestic
2,440 12	394	60	<u>-</u>	-	-	- -	2,936 465	Public administration
-	341	44	-	-	-	-	385	Commercial
12	122	5	-	-	-	- -	245	Agriculture
14	200	21	-	_	_	_	243	Miscellaneous
-	/1111							

527

1,146

Non energy use (4)

Commodity balances 2003 Petroleum products

	=:1			0.1		A 1 41		Thousan	
	Ethane	Propane	Butane		Naphtha		Motor	White	Aviatior turbine
				gases		spirit	spirit	Spirit & SBP ⁴	fue
Supply								<u> </u>	
Production	11	1,620	679	2,891	3,516	26	22,627	104	5,277
Other sources	1,509	628	524	· -	, <u>-</u>	_	· -	-	· -
Imports	, <u>-</u>	194	172	-	782	12	2,022	34	7,346
Exports	_	-328	-16	-7	-2,461	-5	-5,603	-	-587
Marine bunkers	-	-	-	-	, <u>-</u>	-	-	-	-
Stock change (2)	-	+5	+22	+1	-74	-1	-88	+4	-100
Transfers	-9	-254	-703	-196	+742	-1	+454	-0	-1,347
Total supply	1,510	1,865	679	2,688	2,506	31	19,412	141	10,588
Statistical difference (3)	-60	-180	-311	-40	+161	-15	-506	-6	-176
Total demand	1,571	2,046	990	2,728	2,345	46	19,918	147	10,765
	-								10,703
Transformation	-	1	-	229	-	-	-	-	-
Electricity generation	-	1	-	229	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-	-
Autogenerators	-	1	-	229	-	-	-	-	-
Heat generation	-	-	=	-	-	=	-	=	-
Petroleum refineries	-	=	-	-	-	-	-	=	-
Coke manufacture	-	=	-	-	-	-	-	=	-
Blast furnaces	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Energy industry use	9	19	-	2,176	13	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-	-
Oil & gas extraction	-	-	-	-	-	-	-	-	-
Petroleum refineries	9	19	-	2,176	13	-	-	-	-
Coal extraction	-	-	-	-	-	-	-	-	-
Coke manufacture	=	-	-	-	-	-	-	-	=
Blast furnaces	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	=	-	-	-	-	-	-	-	-
Pumped storage	=	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-
Losses	-	-	-	-	-	-	-	-	-
Final consumption	1,562	2,027	990	323	2,332	46	19,918	147	10,765
Industry	75 75	690	154	-	-	-	-	-	-
Unclassified	75	690	154	-	-	-	-	-	-
Iron & steel	-	-	=	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-	-	-	-	-
Electrical engineering, etc	-	=	-	-	-	-	-	=	-
Vehicles	-	=	-	-	-	-	-	=	-
Food, beverages, etc	-	=	-	-	-	-	-	=	-
Textiles, leather, etc	-	-	-	-	-	-	-	-	-
Paper, printing etc	-	-	-	-	-	-	-	-	-
Other industries	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-
Transport	-	104	-	-	-	46	19,918	-	10,765
Air	-	-	-	-	-	46	-	-	10,765
Rail	-	-	-	-	-	-	-	-	-
Road	-	104	=	-	-	-	19,918	=	=
National navigation	-	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	-	397	48	-	-	-	-	-	-
Domestic	-	294	47	-	-	-	-	-	-
Public administration	-	-	-	-	-	-	-	-	-
Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	103	-	-	-	-	-	-	-
Miscellaneous	-	=	-	-	-	-	-	=	-
Non energy use (4)	1,487	835	789	323	2,332	_	_	147	

⁽¹⁾ Includes marine diesel oil.(2) Stock fall (+), stock rise (-).(3) Total supply minus total demand.

Commodity balances 2003 (continued) Petroleum products

TI	ı۸ı	ıca	nd	tor	าทคร

Durning			_					i nousand tonne
Burning	Gas/	Fuel	Lubri	Bitu	Petroleum	Misc.	Total	
oil	Diesel Oil 5	oils	-cants	-men	coke	products	Products	
	Oil							Supply
3,521	27,579	11,517	576	1,925	1,630	1,030	84,529	Production
5,521	21,515	-	-	1,525	1,000	1,000	2,661	Other sources
327	3,503	394	570	249	834	34	16,472	Imports
-556	-5,528	-6,385	-678	-329	-566	-274	-23,323	Exports
-	-897	-867	-	-	-	-	-1,764	Marine bunkers
+36	-27	-3	+46	-9	+17	-90	-262	Stock change (2)
+151	-625	+136	+454	+43	-22	-476	-1,652	Transfers
3,479	24,006	4,792	968	1,879	1,893	224	76,661	Total supply
-90	-231	+1,230	+101	-80	-5	-282	-492	Statistical difference (3)
3,569	24,237	3,562	868	1,959	1,898	506	77,154	Total demand
-	47	639	-		- 1,000	-	916	Transformation
_	29	277	_	_	_	_	536	Electricity generation
_	17	83	_	_	_	_	100	Major power producers
_	12	194	_	_	_	_	436	Autogenerators
_	18	133	_	_	_	_	151	Heat generation
_	-	-	_	_	- -	_	-	Petroleum refineries
_	_	_	_	_	_	-	-	Coke manufacture
-	-	229	-	_	_	_	229	Blast furnaces
-	_		_	_	_	_		Patent fuel manufacture
_	_	-	-	_	-	-	_	Other
-	200	2,024	-	-	1,018	-	5,458	Energy industry use
-	-	-	-	-	,	-	-	Electricity generation
_	-	_	-	-	=	=	_	Oil & gas extraction
-	199	2,022	-	_	1,018	-	5,456	Petroleum refineries
-	-	· -	-	_	-	-	-	Coal extraction
-	-	1	-	_	-	-	1	Coke manufacture
-	0	-	-	-	-	-	0	Blast furnaces
-	-	-	-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	=	-	-	Pumped storage
-	0	-	-	-	-	-	0	Other
-	-	-	-	-	-	-	-	Losses
3,569	23,990	899	868	1,959	880	506	70,780	Final Consumption
1,285	3,359	707	-	-	-	-	6,270	Industry
1,285	-	- 17	-	-	-	-	2,204	Unclassified
-	1		-	-	-	-	19	Iron & steel
	04						45	Niam famaria mastala
-	21	24	-	-	-	-	45	Non-ferrous metals
-	206	24 17	-	-	-	-	223	Mineral products
- - -	206 111	24 17 73	- - -	- - -	- - -	- - -	223 184	Mineral products Chemicals
- - -	206 111 113	24 17 73 27	- - -	- - -	- - -	- - -	223 184 140	Mineral products Chemicals Mechanical engineering et
- - - -	206 111 113 13	24 17 73 27 13	- - - -	-	- - - -	- - - -	223 184 140 26	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc
-	206 111 113 13 69	24 17 73 27 13 24	- - - - -	- - - -	- - - - -	- - - -	223 184 140 26 93	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles
- - -	206 111 113 13 69 154	24 17 73 27 13 24 52	- - - - -	- - - - -	- - - - - -	- - - - - -	223 184 140 26 93 206	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc
-	206 111 113 13 69 154 78	24 17 73 27 13 24 52 24	- - - - -	- - - - - -	- - - - - - -	- - - - - - -	223 184 140 26 93 206 102	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc
- - -	206 111 113 13 69 154 78 21	24 17 73 27 13 24 52 24 32	- - - - - - -	- - - - - -	- - - - - - - -	- - - - - - - -	223 184 140 26 93 206 102 53	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc
- - - -	206 111 113 13 69 154 78 21 2,279	24 17 73 27 13 24 52 24 32 401	- - - - - - -	- - - - - - -	- - - - - - - - -	- - - - - - - -	223 184 140 26 93 206 102 53 2,680	Mineral products Chemicals Mechanical engineering et Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries
- - - - -	206 111 113 13 69 154 78 21 2,279 293	24 17 73 27 13 24 52 24 32 401 3	-	- - - - - - - -	- - - - - - - - -		223 184 140 26 93 206 102 53 2,680 295	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction
- - - - - - 12	206 111 113 13 69 154 78 21 2,279	24 17 73 27 13 24 52 24 32 401	- - - - - - - - -	- - - - - - - -	- - - - - - - - - -	-	223 184 140 26 93 206 102 53 2,680 295 50,292	Mineral products Chemicals Mechanical engineering et Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport
- - - - - 12	206 111 113 13 69 154 78 21 2,279 293 19,398	24 17 73 27 13 24 52 24 32 401 3	- - - - - - - - - - -	-	- - - - - - - - - - - - - - - - - - -		223 184 140 26 93 206 102 53 2,680 295 50,292	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport Air
- - - - - 12	206 111 113 13 69 154 78 21 2,279 293 19,398	24 17 73 27 13 24 52 24 32 401 3 50	-	- - - - - - - - -	- - - - - - - - - - - - - - - - - - -	-	223 184 140 26 93 206 102 53 2,680 295 50,292 10,810 612	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport Air Rail
- - - - - 12	206 111 113 13 69 154 78 21 2,279 293 19,398 - 600 17,712	24 17 73 27 13 24 52 24 32 401 3 50	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	-	223 184 140 26 93 206 102 53 2,680 295 50,292 10,810 612 37,735	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport Air Rail Road
- - - - - 12 - 12	206 111 113 13 69 154 78 21 2,279 293 19,398	24 17 73 27 13 24 52 24 32 401 3 50	-	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	-	223 184 140 26 93 206 102 53 2,680 295 50,292 10,810 612	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport Air Rail Road National navigation
- - - - - - 12 - - -	206 111 113 13 69 154 78 21 2,279 293 19,398 - 600 17,712 1,085	24 17 73 27 13 24 52 24 32 401 3 50	-	-	- - - - - - - - - - - - - - - - - - -	-	223 184 140 26 93 206 102 53 2,680 295 50,292 10,810 612 37,735 1,135	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport Air Rail Road National navigation Pipelines
- - - - - 12 - - - - 2,272	206 111 113 13 69 154 78 21 2,279 293 19,398 600 17,712 1,085	24 17 73 27 13 24 52 24 32 401 3 50	-	- - - - - - - - - - - - - - - - - - -		-	223 184 140 26 93 206 102 53 2,680 295 50,292 10,810 612 37,735 1,135	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport Air Rail Road National navigation
- - - - 12 - 12 - - - 2,272 2,248	206 111 113 13 69 154 78 21 2,279 293 19,398 600 17,712 1,085 947 163	24 17 73 27 13 24 52 24 32 401 3 50 - - - - - - - - - - - - - - - - - - -	-	-	- - - - - - - - - - - - - - - - - - -	- - - - -	223 184 140 26 93 206 102 53 2,680 295 50,292 10,810 612 37,735 1,135 - 3,806 2,759	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic
- - - - - 12 - - - - 2,272	206 111 113 13 69 154 78 21 2,279 293 19,398 - 600 17,712 1,085 - 947 163 283	24 17 73 27 13 24 52 24 32 401 3 50 - - - - - - - - - - - - - - - - - - -	-	-		- - - - - -	223 184 140 26 93 206 102 53 2,680 295 50,292 10,810 612 37,735 1,135 - 3,806 2,759 370	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic Public administration
- - - - 12 - - - - 2,272 2,248 12	206 111 113 13 69 154 78 21 2,279 293 19,398 - 600 17,712 1,085 - 947 163 283 258	24 17 73 27 13 24 52 24 32 401 3 50 - - - - - - - - - - - - - - - - - - -	-	-	-	- - - - - - -	223 184 140 26 93 206 102 53 2,680 295 50,292 10,810 612 37,735 1,135 - 3,806 2,759 370 301	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial
12 - 12 - - 2,272 2,248 12	206 111 113 13 69 154 78 21 2,279 293 19,398 - 600 17,712 1,085 - 947 163 283	24 17 73 27 13 24 52 24 32 401 3 50 - - - - - - - - - - - - - - - - - - -		- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - -	223 184 140 26 93 206 102 53 2,680 295 50,292 10,810 612 37,735 1,135 - 3,806 2,759 370	Mineral products Chemicals Mechanical engineering etc Electrical engineering etc Vehicles Food, beverages etc Textiles, leather, etc Paper, printing etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic Public administration

Commodity balances 2002 Petroleum products

								Thousan	
	Ethane	Propane	Butane	Other gases	Naphtha	Aviation spirit	Motor spirit	White Spirit & SBP ⁴	Aviation turbine
Supply								& SBP	fuel
Production	50	1,620	529	2,928	3,174	28	22,944	121	5,365
Other sources	1,578	670	1,047	_,0_0	-	-	,0	-	-
Imports		82	110	-	96	9	2,307	45	6,700
Exports	_	-448	-377	-	-2,077	-6	-5,532	-2	-588
Marine bunkers	_	-	-	-	_,	-	-	-	-
Stock change (2)	_	+80	-11	-3	+20	-4	+273	+2	+269
Transfers	-83	-259	-483	+42	+743	+3	+499	-	-1,972
Total supply	1,546	1,744	815	2,966	1,956	30	20,490	166	9,773
Statistical difference (3)	-173	-87	+84	+63	+344	-19	-319	+8	-746
Total demand						50			
	1,718	1,832	731	2,903	1,612	50	20,808	157	10,519
Transformation	-	-	-	228	-	-	-	-	-
Electricity generation	-	-	-	228	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-	-
Autogenerators	-	-	-	228	-	-	-	-	-
Heat generation	-	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Energy industry use	50	10	-	2,390	20	-	-	-	-
Electricity generation	-	-	-	-	-	=	-	=	-
Oil & gas extraction	-	-	-	-	-	-	-	-	-
Petroleum refineries	50	10	-	2,390	20	-	-	-	-
Coal extraction	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	_	-	-	-	-
Pumped storage	-	-	-	-	_	-	-	-	-
Other	-	-	-	-	_	-	-	-	-
Losses	-	-	-	-	-	-	=	-	-
Final consumption	1,668	1,822	731	284	1,592	50	20,808	157	10,519
Industry	72	484	99		-	-		-	-
Unclassified	72	474	99	_	_	_	_	_	_
Iron & steel	-	10	-	_	_	_	_	_	_
Non-ferrous metals	_	-	_	_	_	_	_	_	_
Mineral products	_	_	_	_	_	_	_	_	_
Chemicals	_	_	_	_	_	_	_	_	_
Mechanical engineering, etc	_	_	_	_	_	_	_	_	_
Electrical engineering, etc	_	_	_	_	_	_	_	_	_
Vehicles	_	_	_	_	_	_	_	_	_
Food, beverages, etc	_	_	_	_	_	_	_	_	_
Textiles, leather, etc	_	_	_	_	_	_	_	_	_
Paper, printing etc		_	_	_		_			_
Other industries	-	-	-	-	-	-	-	-	-
Construction	-	-	_	-	_	-	-	-	-
	-	-	-	-	-	-	20,808	-	40 E40
Transport Air	-	86	•	-	-	50 50	20,000	-	10,519
Rail	-	-	=	=	-	50	=	-	10,519
	-		=	=	-	=	20.000	-	-
Road	-	86	-	=	=	=	20,808	-	-
National navigation	-	-	-	=	_	-	-	-	-
Pipelines	-	-	-	=	-	-	-	-	-
Other	-	369	48	-	-	-	-	-	-
Domestic	-	271	48	=	-	=	-	-	-
Public administration	-	-	-	-	-	-	-	-	-
Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	98	-	-	-	-	-	-	-
Miscellaneous	-	-	-	-	-	-	-	-	-
Non energy use	1,597	883	584	284	1,592	_	_	157	-

⁽¹⁾ Includes marine diesel oil.(2) Stock fall (+), stock rise (-).(3) Total supply minus total demand.

Commodity balances 2002 (continued) Petroleum products

Thousand	tonnes

								Thousand tonin
Burning	Gas/	Fuel	Lubri	Bitu	Petroleum	Misc.	Total	
oil	Diesel	oils	-cants	-men	coke	products	Products	
	Oil ⁵							
								Supply
3,506	28,393	10,551	509	1,918	1,543	818	83,996	Production
_	_	_	-	_	_	_	3,295	Other sources
299	3,219	558	422	232	790	32	14,900	Imports
-402	-6,352	-5,780	-521	-261	-541	-556	-23,444	Exports
-	-1,144	-769	-		-	-	-1,913	Marine bunkers
-8	+194	-32	-16	+24	+16	+423	+1226	Stock change (2)
					_			
+150	-722	+235	+442	+50	-1	-383	-1,739	Transfers
3,545	23,588	4,763	836	1,963	1,806	334	76,321	Total supply
-33	+513	+996	+7	-39	-188	-323	+86	Statistical difference (3)
3,578	23,075	3,767	829	2,002	1,995	658	76,233	Total demand
	52	828				-	1,108	Transformation
_	29	415	_	_	_	_	671	Electricity generation
-			-	-	-	-		
-	10	108	-	-	-	-	119	Major power producers
-	18	306	-	-	=	-	553	Autogenerators
-	23	227	-	-	-	-	250	Heat generation
-	-	-	-	-	-	-	-	Petroleum refineries
-	-	-	-	-	=	-	-	Coke manufacture
-	-	186	-	-	-	-	186	Blast furnaces
_	_	-	_	_	_	_	-	Patent fuel manufacture
_	_	_	_	_	_	_	_	Other
	49	2,046			1,102	11	5,678	Energy industry use
-		2,040	-	-	1,102		3,070	
-	-	-	-	-	-	-	-	Electricity generation
-	-	-	-	-	<u>-</u>	-		Oil & gas extraction
-	49	2,045	-	-	1,102	11	5,677	Petroleum refineries
-	-	-	-	-	-	-	-	Coal extraction
-	-	-	-	-	-	-	-	Coke manufacture
-	-	1	-	-	_	-	1	Blast furnaces
_	-	_	_	_	_	_	_	Patent fuel manufacture
_	_	_	_	_	_	_	_	Pumped storage
							_	Other
_	_	_	_		- -	_		Losses
2 570	22.074		000	2.002		647	CO 440	
3,578	22,974	893	829	2,002	893	647	69,448	Final Consumption
1,288	3,043	711	-	-	-	-	5,697	Industry
1,288	-	-	-	-	-	-	1,933	Unclassified
-	2	66	-	-	-	-	77	Iron & steel
-	41	34	-	-	-	-	75	Non-ferrous metals
-	213	26	-	-	-	-	239	Mineral products
-	129	85	-	-	_	_	214	Chemicals
_	155	58	_	_	_	_	213	Mechanical engineering et
_	21	25	_	_	-	_	46	Electrical engineering etc
_	151	32			_	_	183	Vehicles
			-	-	-	-		Food, beverages etc
-	180	58	-	-	-	-	238	, 0
-	79	37	-	-	-	-	116	Textiles, leather, etc
-	35	39	-	-	-	-	74	Paper, printing etc
-	1,602	248	-	-	-	-	1,851	Other industries
-	435	2	-	-	=	-	437	Construction
12	18,126	42	-	-	-	-	49,643	Transport
-	, - -	_	_	-	_	_	10,568	Air
12	595	_	_	_	-	_	607	Rail
-	16,926	_					37,821	Road
			-	-	-	-	•	
-	605	42	-	-	-	-	647	National navigation
-	4 = -	-	-	-	-	-	-	Pipelines
2,278	1,599	140	-	-	-	-	4,434	Other
2,254	202	4	-	-	-	-	2,779	Domestic
	602	71	-	-	-	-	685	Public administration
12		51	_	_	-	-	366	Commercial
12	315	ÐΙ						
-	315 395		_	_	_	_	508	Agriculture
- 12	395	3	-	-	-	-	508 96	Agriculture Miscellaneous
-			- - 829	2,002	- - 893	647	508 96 9,673	Agriculture Miscellaneous Non energy use

Commodity balances 2001 Petroleum products

								Thousand tonne			
	Ethane	Propane	Butane	Other gases	Naphtha	Aviation spirit	Motor spirit	White Spirit	Aviation		
Supply								& SBP 4	fuel		
Production	83	1,250	520	2,511	3,463	101	21,455	121	5,910		
Other sources	1,587	967	1,020	2,011	5,405	-	21,400	-	3,310		
Imports	1,307	236	1,020	-	337	10	3,702	26	6,217		
Exports	_	-315	-77	_	-1,078	-6	-4,447	-2	-456		
Marine bunkers	_	-313	-11 -	_	-1,076	-0	-4,447	-2	-430		
Stock change (2)	_	-26	-17	+2	+4	+6	-377	0	-291		
Transfers	-101	-258	-314	-	-633	+5	+1,062	-0	+9		
Total supply	1,569	1,854	1,304	2,512	2,093	114	21,396	145	11,388		
		-									
Statistical difference (3)	-124	+277	+778	-194	+466	+55	+456	-6	+774		
Total demand	1,693	1,578	526	2,706	1,627	59	20,940	151	10,614		
Transformation	-	36	-	179	-	-	-	-	-		
Electricity generation	_	36	-	179	-	-	=	-	-		
Major power producers	-	=	-	-	-	-	-	=	-		
Autogenerators	-	36	-	179	-	-	-	-	-		
Heat generation	_	-	-	-	-	-	=	-	-		
Petroleum refineries	_	-	-	-	-	-	=	-	-		
Coke manufacture	-	=	=	-	-	=	-	-	-		
Blast furnaces	-	=	-	-	-	-	-	=	-		
Patent fuel manufacture	_	-	-	-	-	-	=	-	-		
Other	_	-	-	-	-	-	=	-	-		
Energy industry use	83	7	-	2,239	35	-	-	-	-		
Electricity generation	_	-	-	-	-	-	=	-	-		
Oil & gas extraction	_	-	-	-	-	-	=	-	-		
Petroleum refineries	83	7	-	2,239	35	-	=	-	-		
Coal extraction	_	-	-	-	-	-	=	-	-		
Coke manufacture	-	-	-	-	-	-	-	-	-		
Blast furnaces	_	-	-	-	-	-	=	-	-		
Patent fuel manufacture	_	-	-	-	-	-	=	-	-		
Pumped storage	-	-	-	-	-	-	-	-	-		
Other	-	-	-	-	-	-	-	-	-		
Losses	-	-	-	-	-	-	-	-	-		
Final consumption	1,610	1,535	526	287	1,592	59	20,940	151	10,614		
Industry	82	189	68	-	-	-	-	-	-		
Unclassified	82	189	68	-	-	-	=	-	-		
Iron & steel	-	-	-	-	-	-	-	-	-		
Non-ferrous metals	_	-	-	-	-	-	=	-	-		
Mineral products	-	-	-	-	-	-	-	-	-		
Chemicals	-	-	-	-	-	-	-	-	-		
Mechanical engineering, etc	-	-	-	-	-	-	-	-	-		
Electrical engineering, etc	-	-	-	-	-	-	=	-	-		
Vehicles	_	-	-	-	-	-	=	-	-		
Food, beverages, etc	_	-	-	-	-	-	=	-	-		
Textiles, leather, etc	-	-	-	-	-	-	-	-	-		
Paper, printing etc	_	-	-	-	-	-	=	-	-		
Other industries	-	-	-	-	-	-	-	-	-		
Construction	_	-	-	-	-	-	=	-	-		
Transport	-	53	-	-	-	59	20,940	-	10,614		
Air	-	-	-	-	-	59	-	-	10,614		
Rail	-	=	-	-	-	-	-	=	-		
Road	-	53	-	-	-	-	20,940	-	-		
National navigation	-	-	-	-	-	-	-	-	-		
Pipelines	-	-	-	-	-	-	-	-	-		
Other	-	709	116	-	-	-	-	-	-		
Domestic	_	270	68	-	-	-	-	-	-		
Public administration	_	-	-	-	-	-	-	-	-		
Commercial	_	324	47	-	_	-	_	_	_		
Agriculture	_	115	1	-	_	-	_	_	_		
		· · · -									
Miscellaneous	-	-	-	-	-	-	-	-	-		

⁽¹⁾ Includes marine diesel oil.(2) Stock fall (+), stock rise (-).(3) Total supply minus total demand.

Commodity balances 2001 (continued) Petroleum products

Th	Λı	ısa	nd	to	nn	Δ.

### 1,445 -	Misc. products 1,140 - 22 -277 -74 -290 520 -21 541	70tal Products 82,109 3,575 17,234 -19,088 -2,274 -598 -4,328 76,631 +217 76,413 1,793 971 366 605 671 5,059 5,059	Supply Production Other sources Imports Exports Marine bunkers Stock change (2) Transfers Total supply Statistical difference (3) Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Under the fuel manufacture Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage Other
1,445 -688 -460 -27 -1,646 +13 1,633 931	1,140 - 22 -27774 -290 520 -21 541	82,109 3,575 17,234 -19,088 -2,274 -598 -4,328 76,631 +217 76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Production Other sources Imports Exports Marine bunkers Stock change (2) Transfers Total supply Statistical difference (3) Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931 931	22 -277 -74 -290 520 -21 541 	3,575 17,234 -19,088 -2,274 -598 -4,328 76,631 +217 76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Production Other sources Imports Exports Marine bunkers Stock change (2) Transfers Total supply Statistical difference (3) Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931 931	22 -277 -74 -290 520 -21 541 	3,575 17,234 -19,088 -2,274 -598 -4,328 76,631 +217 76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Production Other sources Imports Exports Marine bunkers Stock change (2) Transfers Total supply Statistical difference (3) Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931 931	22 -277 -74 -290 520 -21 541 	3,575 17,234 -19,088 -2,274 -598 -4,328 76,631 +217 76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Other sources Imports Exports Marine bunkers Stock change (2) Transfers Total supply Statistical difference (3) Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture
-460 -27 -1,646 +13 1,633	-277 -74 -290 520 -21 541	17,234 -19,088 -2,274 -598 -4,328 76,631 +217 76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Imports Exports Marine bunkers Stock change (2) Transfers Total supply Statistical difference (3) Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
-460 -27 -1,646 +13 1,633	-277 -74 -290 520 -21 541	-19,088 -2,274 -598 -4,328 76,631 +217 76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Exports Marine bunkers Stock change (2) Transfers Total supply Statistical difference (3) Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
-27 -27 -1,646 +13 1,633 	-74 -290 520 -21 541 	-2,274 -598 -4,328 76,631 +217 76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Marine bunkers Stock change (2) Transfers Total supply Statistical difference (3) Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931 931	-74 -290 520 -21 541	-598 -4,328 76,631 +217 76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Stock change (2) Transfers Total supply Statistical difference (3) Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931 931	-290 520 -21 541	-4,328 76,631 +217 76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Transfers Total supply Statistical difference (3) Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Patent fuel manufacture
1,646 +13 1,633 - - - - - - - - - - - - - - - - - -	520 -21 541	76,631 +217 76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Total supply Statistical difference (3) Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
+13 1,633	-21 541	+217 76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
1,633 	541	76,413 1,793 971 366 605 671 - 151 - 5,059 - 5,059	Total demand Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931 	32 	1,793 971 366 605 671 - 151 - 5,059 - 5,059	Transformation Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931	32 	971 366 605 671 - 151 - 5,059 - 5,059	Electricity generation Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931	32	366 605 671 - - 151 - - 5,059 - - - - - -	Major power producers Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931	32	605 671 - - 151 - - 5,059 - - - - - -	Autogenerators Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931	32	671 - - 151 - - 5,059 - - - - - -	Heat generation Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931	32	5,059 5,059 - 5,059 - - - -	Petroleum refineries Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931	32	5,059 - 5,059 - - - - - -	Coke manufacture Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931	32	5,059 - 5,059 - - - - - -	Blast furnaces Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931	32	5,059 - 5,059 - - - - - -	Patent fuel manufacture Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931	32	5,059 - - - - - - -	Other Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931	32	5,059 - - - - - - -	Energy industry use Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
931	32	5,059 - - - - - - -	Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
- - - - -	32 - - - - - -	5,059 - - - - - - -	Electricity generation Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
- - - - -	- - - - -	5,059 - - - - -	Oil & gas extraction Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
- - - - -	- - - - -	5,059 - - - - -	Petroleum refineries Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
- - - - -	- - - - -	- - - - -	Coal extraction Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
702	- - - - - 509	- - - -	Coke manufacture Blast furnaces Patent fuel manufacture Pumped storage
702 - -	509		Blast furnaces Patent fuel manufacture Pumped storage
702 - - - -	509		Patent fuel manufacture Pumped storage
702	509		Pumped storage
702	509		
702 - - -	509		
702 - - - -	509	-	Losses
	303	69,561	Final Consumption
- - -	-	6,061	Industry
- -	_	1,899	Unclassified
-	_	76	Iron & steel
-	-	_	
	-	76	Non-ferrous metals
-	-	270	Mineral products
-	-	237	Chemicals
-	-	254	Mechanical engineering et
-	-	59	Electrical engineering etc
-	-	172	Vehicles
-	-	277	Food, beverages etc
-	=	159	Textiles, leather, etc
-	-	105	Paper, printing etc
-	-	2,004	Other industries
-	-	472	Construction
-	-	49,112	Transport
-	=	10,673	Air
-	=	610	Rail
-	-	37,052	Road
-	-	777	National navigation
-	-	-	Pipelines
-	-		Other
		•	Domestic
-	_	-	
-	-	781	Public administration
- - -		781 834	Public administration Commercial
- - -	-	834	Commercial
- - - -	-		
	- - - - - -		- 49,112 - 10,673 - 610 - 37,052 - 777 5,501 - 3,177

Commodity balances 2000 Petroleum products

								Thousan	
	Ethane	Propane	Butane	Other gases	Naphtha	Aviation spirit	Motor spirit	White Spirit & SBP ⁴	Aviation turbine fuel
Supply								a ser	iuc
Production	52	1,407	512	2,821	3,100	30	23,445	122	6,484
Other sources	1,411	977	995	-,	-	-	,	-	-,
Imports	-,	78	253	-	348	16	2,443	38	4,675
Exports	_	-560	-150	_	-973	-	-4,708	-9	-487
Marine bunkers	_	-	-	-	-	_	-,,	-	-
Stock change (2)	-1	-18	_	+3	-58	+2	+260	_	-25
Transfers	-60	-222	-438	-37	-568	-11	+625	_	+429
Total supply	1,403	1,662	1,173	2,787	1,850	37	22,066	150	11,076
Statistical difference (3)				_	-				
	-191	+31	+732	-91	-513	-16	+663	-20	+270
Total demand	1,593	1,631	440	2,878	2,363	52	21,403	170	10,806
Transformation	-	53	-	179	-	-	-	-	-
Electricity generation	-	36	-	179	-	-	-	-	-
Major power producers	-	-	-	-	-	-	=	-	-
Autogenerators	-	36	-	179	-	-	=	-	-
Heat generation	-	17	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	_	-	-	-	-	-	=	-	-
Patent fuel manufacture	_	-	-	-	-	-	=	-	-
Other	-	-	_	-	-	_	-	-	-
Energy industry use	53	16	26	2,532	19	-	-	-	-
Electricity generation	-	-	_	· -	-	_	-	-	-
Oil & gas extraction	-	-	-	-	_	-	-	-	-
Petroleum refineries	53	2	-	2,532	19	-	-	-	-
Coal extraction	_	-	_	· -	_	-	-	_	-
Coke manufacture	_	-	_	_	_	_	_	_	_
Blast furnaces	_	-	_	_	_	_	_	_	_
Patent fuel manufacture	_	-	_	-	_	_	_	_	-
Pumped storage	_	-	_	-	_	_	_	_	-
Other	_	14	26	_	_	_	_	_	_
Losses	_	-		_	_	_	_	_	_
Final consumption	1,540	1,563	415	166	2,344	52	21,403	170	10,806
Industry	80	746	-	-					- 10,000
Unclassified	80	722	_	_	_	_	_	_	_
Iron & steel	-	24	_	_	_	_	_	_	_
Non-ferrous metals	_	_			_	_	_		
Mineral products	_	_	_	_	_	_	_	_	_
Chemicals	_	_			_	_	_		
Mechanical engineering, etc		_	_	_		_			_
Electrical engineering, etc	_	_	_	_	_	_	_	_	_
Vehicles	-	-	_	-	_	-	-	-	-
Food, beverages, etc	-	-	-	-	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Paper, printing etc Other industries	-	-	=	=	-	=	=	-	-
	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	40.000
Transport	-	-	22	-	-	52	21,403	-	10,806
Air	-	-	-	-	-	52	-	-	10,806
Rail	-	-	-	-	-	-	-	-	-
Road	-	-	22	-	-	-	21,403	-	-
National navigation	-	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	-	147	133	-	-	-	-	-	-
Domestic	-	147	133	-	-	-	-	-	-
Public administration	-	-	-	-	-	-	-	-	-
Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Miscellaneous	-		-	-	-	<u> </u>	-	-	-
Non energy use	1,460	671	259	166	2,344	-		170	-

⁽¹⁾ Includes marine diesel oil.(2) Stock fall (+), stock rise (-).(3) Total supply minus total demand.

Commodity balances 2000 (continued) Petroleum products

T	ho	us	an	d t	or	me

								Thousand tolline
Burning	Gas/	Fuel	Lubri	Bitu	Petroleum	Misc.	Total	
oil	Diesel	oils	-cants	-men	coke		Products	
0	Oil ⁵	01.0	Juinto		OOKO	products	1100000	
	Oll							
								Supply
3,078	28,398	11,523	702	1,438	1,891	1,379	86,381	Production
•		11,020		1,100	1,001	1,010		
-	-	-	-	_	-	-	3,383	Other sources
86	3,815	596	211	255	657	741	14,212	Imports
-199	-6,416	-5,360	-636	-283	-502	-393	-20,677	Exports
	-1,141	-938	000	200	002	-	-2,079	Marine bunkers
	-							
-70	-54	+266	-26	+25	+36	-672	-331	Stock change (2)
+587	-783	-2773	+249	+319	+1	-811	-3,493	Transfers
3,481	23,820	3,313	501	1,754	2,083	244	77,397	Total supply
-358	+442	-34	-301	-222	+74	-265	+201	Statistical difference (3)
3,839	23,377	3,346	801	1,975	2,010	510	77,196	Total demand
-	190	1,459	_	-	_	_	1,881	Transformation
_		•					•	
-	158	605	-	-	-	-	978	Electricity generation
-	135	238	-	-	-	-	373	Major power producers
_	23	367	_	_	_	_	605	Autogenerators
-	33	659	-	-	-	-	708	Heat generation
-	-	-	-	-	-	-	-	Petroleum refineries
-	-	_	-	_	_	-	_	Coke manufacture
	_	105						
-	-	195	-	-	-	-	195	Blast furnaces
-	-	-	-	-	-	-	-	Patent fuel manufacture
_	_	_	_	_	_	_	_	Other
	169	1,227			1,234	15	5,291	Energy industry use
-	109	1,221	-	-	1,234	15	5,291	
-	-	-	-	-	-	-	-	Electricity generation
_	_	_	-	_	_	_	-	Oil & gas extraction
_	169	1,227	_	_	1,234	15	5,252	Petroleum refineries
=	103	1,221	_	_	1,234	13	•	
-	-	-	-	-	-	-	-	Coal extraction
-	-	-	-	-	-	-	-	Coke manufacture
_	_	_	_	_	_	_	_	Blast furnaces
-	-	-	-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	-	-	-	Pumped storage
_	_	_	_	_	_	_	39	Other
							00	
		-	-	-	-			Losses
3,839	23,017	660	801	1,975	776	495	70,024	Final Consumption
1,312	2,844	501	-	-			5,483	Industry
	_,0						•	
1,312	-	-	-	-	-	-	2,114	Unclassified
-	69	45	-	-	-	-	138	Iron & steel
_	29	10	_	_	_	_	38	Non-ferrous metals
-	195	47	-	-	-	-	242	Mineral products
-	126	77	-	-	-	-	203	Chemicals
-	167	18	_	-	-	-	184	Mechanical engineering etc
-	22	12	-	-	-	-	35	Electrical engineering etc
-	116	9	-	-	-	-	125	Vehicles
_	139	71	-	-	_	_	210	Food, beverages etc
	53	89					142	Textiles, leather, etc
-			-	-	-	-		
-	21	21	-	-	-	-	42	Paper, printing etc
-	1,481	100	-	-	_	-	1,581	Other industries
_	427	2	_	_	_	_	429	Construction
			_	-	=	=		
12	17,119	38	-	-	-	-	49,452	Transport
-	-	-	-	-	-	-	10,859	Air
	575	_	_	_	_	_	587	Rail
12			_		-			
12		-	-	-	-	-	37,057	Road
12	15,632		_	-	-	-	950	National navigation
	15,632 912	38	=					
-	912	38	_	_				Pinalinas
- - -	912	-	-	-	-	-	-	Pipelines
-	912	38 - 121	- -	-	-	-	5,034	Other
- - 2,514	912 - 2,118	- 121	- -	- -	- -	- -	5,034	
2,514 2,490	912 - 2,118 147	121 3	- -	- - -	- -	-	5,034 2,920	Other Domestic
2,514 2,490 12	912 - 2,118 147 871	1 21 3 79	- - -	- - -	- - -	- -	5,034 2,920 963	Other Domestic Public administration
2,514 2,490 12	912 - 2,118 147 871 405	- 121 3 79 27	-	- - -	- - - -	-	5,034 2,920 963 432	Other Domestic Public administration Commercial
2,514 2,490 12	912 - 2,118 147 871	- 121 3 79 27	- - - -	- - - -	- - - -	- -	5,034 2,920 963	Other Domestic Public administration
2,514 2,490 12	912 - 2,118 147 871 405 560	121 3 79 27 10	- - - - -	-	- - - - -	- - -	5,034 2,920 963 432 582	Other Domestic Public administration Commercial Agriculture
2,514 2,490 12	912 - 2,118 147 871 405	- 121 3 79 27		1,975	- - - - - - - - - - - - - - - - - - -	- -	5,034 2,920 963 432	Other Domestic Public administration Commercial

Commodity balances 1999 Petroleum products

		_						Thousan	
	Ethane	Propane	Butane	Other gases	Naphtha	Aviation spirit	Motor spirit	White Spirit	Aviation turbine
Committee								& SBP ⁴	fuel
Supply Production	33	1,505	471	2,815	2,451	16	25,230	129	7,249
Other sources		1,505 865	931	2,615	2,451		25,230		7,249
	1,527	101	931 264	-	-	- 15	2 402	-	2.045
Imports	-		_	-	608	15	2,492	62	2,945
Exports Marine hunkers	-15	-316	-169	-	-605	-1	-6,332	-15	-739
Marine bunkers	. 4	-	-		- 440	-	. 405	4 4	- 470
Stock change (2)	+1	-24	+3	+1	+113	+7	+125	+11	+173
Transfers	-28	-110	-557	-33	+181	+28	+143	+12	+274
Total supply	1,518	2,021	943	2,783	2,748	65	21,658	199	9,903
Statistical difference (3)	-136	+378	+337	-91	-373	+20	-129	+25	-36
Total demand	1,654	1,643	607	2,874	3,121	45	21,787	174	9,939
Transformation	-	53	-	214	-	-	-	-	-
Electricity generation	_	37	_	214	_	_	_	_	_
Major power producers	_	-	_	_	_	_	_	_	_
Autogenerators	_	37	_	214	_	_	_	_	_
Heat generation	_	16	=		_	_	=	-	_
Petroleum refineries	_	-	_	-	_	-	_	_	_
Coke manufacture	_	=	_	-	_	-	_	_	_
Blast furnaces	_	=	-	-	_	-	-	_	_
Patent fuel manufacture	_	=	_	-	_	-	_	_	_
Other	_	_	_	_	_	_	_	_	_
Energy industry use	33	25	25	2,454	21				
Electricity generation	-	-	-	-,		_	_	_	_
Oil & gas extraction	_	_	_	_	_	_	_	_	_
Petroleum refineries	33	1	_	2,454	21	_	_	_	_
Coal extraction	-		_	2,404	-	_	_	_	_
Coke manufacture	_	_					_		
Blast furnaces		3	_	_		_			
Patent fuel manufacture		-	_	_	_	_	_	_	
Pumped storage	_	-		_	_	_	_	_	_
Other	_	21	25	_	_	_	_	_	_
Losses	-	<u> -</u>	-	-	_	-	_	-	_
Final consumption	1,621	1,565	582	208	3,100	45	21,787	174	9,939
Industry	74	784	- 302	- 200	3,100	45	21,707	1/4	9,939
Unclassified	7 4 74	76 4 763	-	-	-	-	-	_	-
Iron & steel	74	21	-	-	-	-	-	-	-
Non-ferrous metals	-	21	_	-	_	-	-	-	_
Mineral products	-	-	-	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-	-	-	-
Food, beverages, etc	-	-	-	-	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-	-	-	-	-
Paper, printing etc	-	-	-	-	-	-	-	-	-
Other industries	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	<u>-</u>	-	-	
Transport	-	-	8	-	-	45	21,787	-	9,939
Air	-	-	-	-	-	45	-	-	9,939
Rail	-	-	-	-	-	-	_	-	-
Road	-	-	8	-	-	-	21,787	-	-
National navigation	-	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	-	139	159	-	-	-	-	-	-
Domestic	-	139	159	-	-	-	-	-	-
Public administration	-	-	-	-	-	-	-	-	-
Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Miscellaneous		<u> </u>	<u>-</u>			<u> </u>			<u> </u>
Non energy use	1,547	642	415	208	3,100	_	_	174	

⁽¹⁾ Includes marine diesel oil.(2) Stock fall (+), stock rise (-).(3) Total supply minus total demand.

Commodity balances 1999 (continued)

Petrole	um pro	ducts						-
Burning oil	Gas/ Diesel Oil ⁵	Fuel oils	Lubri -cants	Bitu -men	Petroleum coke	Misc. products	Total Products	Thousand tonnes
								Supply
3,553	25,870	12,195	907	1,644	1,813	854	86,733	Production
-	-	-	-	-	-	-	3,323	Other sources
212	5,425	657	182	259	643	31	13,896	Imports
-253	-6,667	-4,929	-673	-271	-642	-103	-21,730	Exports
-	-1,151	-1,179	-	-	-	-	-2,329	Marine bunkers
-82	+231	+65	+123	+4	-40	-134	+577	Stock change (2)
+44	-690	-1,683	+110	+380	-6	-170	-2,105	Transfers
3,474	23,018	5,126	649	2,016	1,768	478	78,365	Total supply
-159	-60	+676	-141	+88	-57	+53	+392	Statistical difference (3)
3,633	23,078	4,450	790	1,928	1,825	425	77,974	Total demand
	123	1,753	_	_		-	2,143	Transformation
_	90	826	_	_	_	_	1,167	Electricity generation
_	58	313	_	_	_	_	371	Major power producers
_	32	513	-	_	_	_	796	Autogenerators
_	33	657	-	_	_	_	706	Heat generation
-	-	-	-	-	=	=	-	Petroleum refineries
-	-	_	-	_	-	_	-	Coke manufacture
-	-	270	-	_	-	_	270	Blast furnaces
-	-	-	-	_	-	_	-	Patent fuel manufacture
-	-	_	-	_	-	_	-	Other
_	116	1,754	-	-	1,165	-	5,593	Energy industry use
_	-	· -	-	-	, <u>-</u>	-	, <u>-</u>	Electricity generation
-	=	_	-	=	-	-	-	Oil & gas extraction
-	115	1,749	-	-	1,165	-	5,538	Petroleum refineries
-	-	-	-	-	-	=	=	Coal extraction
-	-	-	-	-	-	-	-	Coke manufacture
-	-	=	-	-	-	-	3	Blast furnaces
-	-	-	-	=	-	-	-	Patent fuel manufacture
-	-	-	-	-	-	-	-	Pumped storage
-	1	5	-	-	-	-	52	Other
_	-	-	-	-	-	-	-	Losses
3,633	22,839	942	790	1,928	660	425	70,238	Final Consumption
1,211	2,744	521	-	-	-	-	5,334	Industry
1,211	-	=	-	=	-	=	2,048	Unclassified
-	13	25	-	-	-	-	59	Iron & steel
-	22	16	-	-	-	-	38	Non-ferrous metals
-	155	57	-	-	-	-	212	Mineral products
-	118	39	-	-	-	-	157	Chemicals
-	143	33	-	=	-	-	176	Mechanical engineering etc
-	23	12	-	-	-	-	35	Electrical engineering etc
-	98	21	-	-	-	-	119	Vehicles
-	129	136	-	-	=	-	265	Food, beverages etc
-	39	79	-	-	-	-	118	Textiles, leather, etc
-	24	37	-	-	=	-	61	Paper, printing etc
-	1,514	62	-	-	=	-	1,576	Other industries
- 40	466	4	-	-	=	-	470	Construction
12	16,989	72	-	-	-	-	48,852	Transport
- 10	- F60	-	-	=	-	-	9,984	Air
12	569	-	-	-	-	-	581	Rail

Commodity balances 1998 Petroleum products

		_						Thousan	
	Ethane	Propane	Butane	Other gases	Naphtha	Aviation spirit	Motor spirit	White Spirit & SBP ⁴	Aviation turbine fuel
Supply								& SBP	iuei
Production	36	1,538	424	2,924	2,333	_	27,166	135	7,876
Other sources	1,215	1,071	1,171	-,02	-	_		-	- ,0.0
Imports	- 1,210	82	158	_	855	32	1,986	51	2,660
Exports	-13	-727	-155	_	-520	-1	-7,986	-32	-828
Marine bunkers	-	-	-	_	-	-	- 7,500	-	-
Stock change (2)	+1	+38	+1	-1	-117	-6	+244	-8	-60
Transfers	-17	-19	-1,351	-44	-153	-3	+1,103	+81	-131
	1,222	1,983	248		2,398	22	•	227	9,517
Total supply				2,879	-		22,513		
Statistical difference (3)	-174	+178	-317	-43	-501	-14	+665	+48	+276
Total demand	1,396	1,805	565	2,922	2,899	36	21,848	179	9,241
Transformation	-	37	-	218	-	-	-	-	-
Electricity generation	-	37	-	218	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-	-
Autogenerators	-	37	-	218	-	-	-	-	-
Heat generation	-	-	-	-	-	-	-	-	-
Petroleum refineries	_	-	-	=	-	=	-	-	-
Coke manufacture	_	-	-	-	-	-	-	-	_
Blast furnaces	-	-	-	-	_	-	-	_	-
Patent fuel manufacture	_	-	_	_	-	=	_	_	_
Other	_	-	_	-	_	-	_	_	_
Energy industry use	36	28	22	2,530	17	-		-	-
Electricity generation	-	-	_	-	_	-	_	_	_
Oil & gas extraction	_	-	_	_	_	_	_	_	_
Petroleum refineries	36	1	_	2,530	17	_	_	_	_
Coal extraction	-	-	_	_,	_	_	_	_	_
Coke manufacture	_	_	_	_	_	_	_	_	_
Blast furnaces	_	3	_	_	_	_	_	_	_
Patent fuel manufacture	_	-	_	_	_	_	_	_	_
Pumped storage	_	_	_	_	_	_	_	_	_
Other	_	24	22	_	_	_	_	_	_
Losses	_		-	_	_	_	_	_	_
Final consumption	1,360	1,740	543	174	2,882	36	21,848	179	9,241
Industry	69	797	-	- 1/-			-	- 173	3,241
Unclassified	69	776	_	_	_	_	_	_	_
Iron & steel	-	21	_	_	_	_	_	_	_
Non-ferrous metals		-	_	_		_	_	_	
Mineral products		_	_	_		_	_	_	
Chemicals	_	_	_	_	_	_	_	_	_
Mechanical engineering, etc		_	_	_		_	_	_	
Electrical engineering, etc	_	_	_	_	_	_	_	_	_
Vehicles	-	-	_	-	_	-	-	_	_
Food, beverages, etc	-	-	-	-	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Paper, printing etc Other industries	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	04.040	-	
Transport	-	-	4	-	-	36	21,848	-	9,241
Air	-	-	-	-	-	36	-	-	9,241
Rail	-	-	-	-	-	-		-	-
Road	-	-	4	-	-	-	21,848	-	-
National navigation	-	-	-	-	-	-	=	-	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	-	149	156	-	-	-	-	-	-
Domestic	-	149	156	-	-	-	-	-	-
Public administration	-	-	-	-	-	-	-	-	-
Commercial	-	-	-	-	-	-	-	-	-
Agriculture	-	-	-	-	-	-	-	-	-
Miscellaneous		<u> </u>			<u> </u>	<u> </u>			<u> </u>
Non energy use	1,291	794	383	174	2,882	_	_	179	

⁽¹⁾ Includes marine diesel oil.(2) Stock fall (+), stock rise (-).(3) Total supply minus total demand.

Commodity balances 1998 (continued) Petroleum products

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	nnı	IICA	กส	tΛ	nne

				B.:	D. ()			Thousand tonin
Burning	Gas/	Fuel	Lubri	Bitu	Petroleum	Misc.	Total	
oil	Diesel	oils	-cants	-men	coke	products	Products	
	Oil ⁵							
								Supply
3,442	27,704	13,365	1,125	2,172	1,869	684	92,792	Production
-	-	-	-	-	-	-	3,457	Other sources
131	3,468	791	198	76	883	47	11,418	Imports
-267	-6,201	-5,834	-632	-334	-831	-14	-24,375	Exports
	-1,396	-1,684	-	-	-		-3,080	Marine bunkers
+31	-215	+84	-5	+20	-42	-58	-93	Stock change (2)
+166	-63	-949		+57	+8	-11	-1,255	Transfers
			+71				*	
3,503	23,297	5,773	757	1,991	1,887	648	78,864	Total supply
-71	+83	+428	-56	+24	-191	+92	+426	Statistical difference (3)
3,574	23,214	5,345	813	1,967	2,078	556	78,438	Total demand
	76	1,332		_	-	_	1,663	Transformation
_	76	1,064	_	_	_	_	1,395	Electricity generation
	_	700					•	
-	56		-	-	-	-	756	Major power producers
-	20	364	-	-	-	-	639	Autogenerators
-	-	-	-	-	-	-	-	Heat generation
-	-	-	-	-	-	-	-	Petroleum refineries
-	-	-	-	-	-	-	-	Coke manufacture
-	-	268	-	-	-	-	268	Blast furnaces
_	_	_	-	_	_	_	_	Patent fuel manufacture
_	_	_	_	_	_	_	_	Other
	163	2,240			1,191		6,227	Energy industry use
_	103	2,240	_	_	1,131	_	0,221	Electricity generation
-	-	-	-	-	-	-	-	
-			-	-	<u>-</u>	-		Oil & gas extraction
-	162	2,240	-	-	1,191	-	6,177	Petroleum refineries
-	-	-	-	-	-	-	-	Coal extraction
-	-	-	-	-	-	-	-	Coke manufacture
-	-	-	-	-	_	-	3	Blast furnaces
_	_	_	_	_	_	_	_	Patent fuel manufacture
_	_	_	_	_	_	_	_	Pumped storage
	1						47	Other
_	<u>'</u>				-	_	47	Losses
2 574	22.075	4 772	042	4.067		556	70 E40	
3,574	22,975	1,773	813	1,967	887		70,548 5,834	Final Consumption
840	2,959	1,169	-	-	-	-		Industry
840	-	-	-	-	-	-	1,685	Unclassified
-	31	29	-	-	-	-	81	Iron & steel
-	22	17	-	-	-	-	39	Non-ferrous metals
-	176	48	-	-	-	-	224	Mineral products
-	153	425	-	-	-	_	578	Chemicals
_	165	34	-	-	_	-	199	Mechanical engineering et
_	27	61	_	_	_	_	88	Electrical engineering etc
_	93	32			_	_	125	Vehicles
			-	-	-	-		
-	151	246	-	-	-	-	397	Food, beverages etc
-	38	57	-	-	-	-	95	Textiles, leather, etc
-	35	84	-	-	-	-	119	Paper, printing etc
-	1,573	124	-	-	-	-	1,697	Other industries
-	495	12	-	-	-	-	507	Construction
12	16,672	104	-	-	-	-	47,917	Transport
-	-	-	_	-	_	_	9,277	Air
12	547	_	_	_	_	_	559	Rail
-					_	-	36,995	Road
	15,143	404	-	-	-	-		
-	982	104	-	-	-	-	1,086	National navigation
-			-	-	-	-		Pipelines
	2,584	500	-	-	-	-	6,111	Other
2,722		1	-	-	=	-	3,195	Domestic
2,722 2,698	191					_	1,398	Public administration
		364	-	-	-			
2,698	1,022	364 47	-	-	-	-		
2,698 12 -	1,022 512	47	- -	- - -	- -		559	Commercial
2,698 12 - 12	1,022 512 698	47 76	- - -	- - -	- - -	- -	559 786	Commercial Agriculture
2,698 12 -	1,022 512	47	813	1,967	887		559	Commercial

Commodity balances Natural gas

Natural gas gwh

rtatarar gao									
		1998			1999			2000	
	Natural	Colliery	Total	Natural	Colliery	Total	Natural	Colliery	Total
	gas	methane	Natural gas	gas	methane	Natural gas	gas	methane	Natural gas
Supply			gas			gas			gas
Production	1,048,385	474	1,048,859	1,152,154	481	1,152,635	1,260,168	488	1,260,656
Other sources	-	-	-	-,	-	-,	-,===,	-	-,===,===
Imports	10,582	_	10,582	12,862	_	12,862	26,032	_	26,032
Exports	-31,604	_	-31,604	-84,433	_	-84,433	-146,342	_	-146,342
Marine bunkers	01,004	_	01,004	0-1,100	_	01,100	1-10,0-12	_	1-10,0-12
Stock change (1)	-374	_	-374	+7,787	_	+7,787	-11,068	_	-11,068
Transfers (2)	-608		-608	-506		-506	-442		-442
Total supply	1,026,381	474	1,026,855	1,087,864	481	1,088,345	1,128,348	488	1,128,836
Statistical difference (3)	+5,295	4/4	+5,295	+704	401	+704	+2,818	400	+2,818
Total demand	1,021,086	474	1,021,560	1,087,160	481	1,087,641	1,125,530	488	1,126,018
Transformation	267,703	30	267,733	341,585	93	341,678	349,304	150	349,454
Electricity generation	267,703	30	267,733	315,400	93	315,493	324,413	150	324,563
Major power producers	236,300	-	236,300	281,988	-	281,988	283,784	130	283,784
Autogenerators	31,403	30	31,433	33,412	93	33,505	40,629	150	40,779
Heat generation (5)	31,403	30	31,433	26,185	93	26,185	24,891	130	24,891
	-	-	-	20,100	-	20,100	24,091		24,091
Petroleum refineries	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	<u> </u>
Energy industry use	75,729	264	75,993	76,735	238	76,973	77,723	218	77,941
Electricity generation	-	-	-	-	-	-	-	-	-
Oil and gas extraction	65,500	-	65,500	64,634	-	64,634	65,555	-	65,555
Petroleum refineries	3,753	-	3,753	4,155	-	4,155	3,641	-	3,641
Coal extraction	67	264	331	14	238	252	6	218	224
Coke manufacture	7	-	7	13	-	13	17	-	17
Blast furnaces	527	-	527	643	-	643	712	-	712
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-	-
Other	5,875	-	5,875	7,276	-	7,276	7,792	-	7,792
Losses (4)	16,254	-	16,254	14,678	-	14,678	20,480	-	20,481
Final consumption	661,400	180	661,580	654,162	150	654,312	678,022	120	678,142
Industry	175,904	180	176,084	176,665	150	176,815	183,320	120	183,441
Unclassified	-	180	180	-	150	150	-	120	120
Iron and steel	20,105	-	20,105	21,622	-	21,622	8,953	-	8,953
Non-ferrous metals	5,532	-	5,532	5,549	-	5,549	5,900	-	5,900
Mineral products	14,689	-	14,689	14,533	-	14,533	15,851	-	15,851
Chemicals	46,386	_	46,386	46,792	_	46,792	49,546	_	49,546
Mechanical Engineering, etc	10,022	_	10,022	10,173	_	10,173	11,145	_	11,145
Electrical engineering, etc	3,507	_	3,507	3,941	_	3,941	5,281	_	5,281
Vehicles	10,274	_	10,274	10,616	_	10,616	11,760	_	11,760
Food, beverages, etc	27,269	_	27,269	27,901	_	27,901	29,835	_	29,835
Textiles, leather, etc	7,268	_	7,268	6,966	_	6,966	8,454	_	8,454
Paper, printing, etc	14,241		14,241	12,532		12,532	17,268		17,268
Other industries	14,415		14,415	13,905		13,905	16,261		16,261
		_			-			_	
Construction	2,196	-	2,196	2,135	-	2,135	3,067	-	3,067
Transport	-	-	-	-	-	-	-	-	-
Air	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	473,519	-	473,519	464,553	-	464,553	480,365	-	480,365
Domestic	355,895	-	355,895	358,066	-	358,066	369,909	-	369,909
Public administration	51,976	-	51,976	43,253	-	43,253	44,552	-	44,552
Commercial	40,722	-	40,722	36,622	-	36,622	36,216	-	36,216
Agriculture	953		953	1,155	_	1,155	1,522	-	1,522
Agriculture	900		333						
Miscellaneous	23,973	-	23,973	25,457	-	25,457	28,166	-	28,166

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Natural gas used in the manufacture of synthetic coke oven gas.

⁽³⁾ Total supply minus total demand.

⁽⁴⁾ For an explanation of what is included under losses, see paragraphs 4.43 to 4.47.

Commodity balances (continued) Natural gas

Natural gas GWh

		2001			2002			2003	
	Natural	Colliery	Total	Natural	Colliery	Total	Natural	Colliery	Total
	gas	methane	Natural gas	gas	methane	Natural gas	gas	methane	Natural
Supply			gas			gas			gas
Production	1,230,533	730	1,231,263	1,204,713	692	1,205,405	1,196,931	915	1,197,846
Other sources	1,230,333	730	1,231,203	1,204,713	-	1,205,405	1,130,331	313	1,137,040
Imports	30,464	_	30,464	60,493	_	60,493	86,298	_	86,298
Exports	-138,330	_	-138,330	-150,731	_	-150,731	-177,039	_	-177,039
Marine bunkers	-130,330	_	-130,330	-130,731	_	-130,731	-177,000	_	-177,055
Stock change (1)	-661	_	-661	-7,356	_	-7,356	+3,532	_	+3,532
Transfers (2)	-65		-65	-7,550 -99		-99	-82		-82
Total supply	1,121,941	730	1,122,671	1,107,020	692	1,107,712	1,109,640	915	1,110,555
		730			692			915	
Statistical difference (3)	+2,079		+2,079	+1,779	-	+1,779	+1,552		+1,552
Total demand	1,119,862	730	1,120,592	1,105,241	692	1,105,933	1,108,087	915	1,109,002
Transformation	336,107	418	336,525	351,450	406	351,856	343,757	653	344,410
Electricity generation	312,521	418	312,939	329,441	406	329,847	323,927	653	324,580
Major power producers	276,764		276,764	291,264		291,264	284,662		284,662
Autogenerators	35,757	418	36,175	38,177	406	38,583	39,265	653	39,918
Heat generation	23,586		23,586	22,009	-	22,009	19,830		19,830
Petroleum refineries	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Energy industry use	91,244	207	91,451	91,064	196	91,260	88,731	187	88,918
Electricity generation	-	-	-	-	-	-	-	-	-
Oil and gas extraction	78,457	-	78,457	79,364	-	79,364	76,848	-	76,848
Petroleum refineries	4,189	-	4,189	3,350	-	3,350	2,773	-	2,773
Coal extraction	4	207	211	-	196	196	· -	187	187
Coke manufacture	9	-	9	-	-	-	1	-	1
Blast furnaces	375	-	375	222	-	222	539	-	539
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-	-
Other	8,210	-	8,210	8,128	-	8,128	8,570	-	8,570
Losses (4)	8,863	-	8,863	9,666	-	9,666	6,217	-	6,217
Final consumption	683,648	105	683,753	653,061	90	653,151	669,382	75	669,457
Industry	179,738	105	179,843	165,076	90	165,166	166,142	75	166,217
Unclassified	-	105	105	-	90	90	-	75	75
Iron and steel	8,502	-	8,502	8,791	-	8,791	10,327	-	10,327
Non-ferrous metals	5,663	_	5,663	5,255	_	5,255	4,781	_	4,781
Mineral products	15,565	_	15,565	14,136	_	14,136	14,105	_	14,105
Chemicals	50,064	_	50,064	44,277	_	44,277	45,048	_	45,048
Mechanical Engineering, etc	9,656	_	9,656	9,273	_	9,273	9,126	_	9,126
Electrical engineering, etc	5,022	_	5,022	4,615	_	4,615	4,395	_	4,395
Vehicles	12,035	_	12,035	11,521	_	11,521	11,621	_	11,621
Food, beverages, etc	29,697	_	29,697	28,884	_	28,884	28,799	_	28,799
Textiles, leather, etc	7,966		7,966	7,837		7,837	7,901		7,901
		-	16,569	15,452	-	15,452	15,898	-	15,898
Paper, printing, etc Other industries	16,569	-	15,741		-	11,731	11,126	-	11,126
	15,741	-		11,731	-			-	,
Construction	3,258	-	3,258	3,304	-	3,304	3,015	-	3,015
Transport	-	-	-	-	-	-	-	-	-
Air	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-		-	-	402 212
Other	492,537	-	492,537	477,205	-	477,205	493,219	-	493,219
Domestic	379,426	-	379,426	376,372	-	376,372	386,486	-	386,486
Public administration	46,232	-	46,232	42,998	-	42,998	44,362	-	44,362
Commercial	37,098	-	37,098	36,224	-	36,224	39,537	-	39,537
Agriculture	2,329	-	2,329	2,346	-	2,346	2,324	-	2,324
Missellansous	27,452	-	27,452	19,265	-	19,265	20,510	-	20,510
Miscellaneous	11,373		, -	-,		-,			,

Commodity balances (continued) Natural gas

GWh

Natural gas									GWh
		2004			2005			2006	
	Natural	Colliery	Total	Natural	Colliery	Total	Natural	Colliery	Total
	gas	methane	Natural	gas	methane	Natural	gas	methane	Natural
	Ū		gas	Ū		gas	ū		gas
Supply									
Production	1,120,447	810	1,121,257	1,025,232	757	1,025,989	929,784	754	930,538
Other sources	-	-	-	-	-	-	-	-	-
Imports	133,033	-	133,033	173,328	-	173,328	244,029	-	244,029
Exports	-114,112	-	-114,112	-96,181	-	-96,181	-120,591	-	-120,591
Marine bunkers	, -	-	· -	-	-	-	-	-	-
Stock change (1)	-6,235	_	-6,235	+1,321	_	+1,321	-6,435	_	-6,435
Transfers (2)	-39	_	-39	-51	_	-51	-55	_	-55
Total supply	1,133,094	810	1,133,904	1,103,649	757	1,104,406	1,046,732	754	1,047,486
Statistical difference (3)	+702		+702	+111		+111	+148	- 104	+148
Total demand	1,132,392	810	1,133,202	1,103,538	757	1,104,295	1,046,584	754	1,047,338
Transformation		595	362,668	353,558	588	354,146	332,836	595	333,431
	362,073	595	340,824	331,070	588	331,658	310,813	595 595	
Electricity generation	340,229	595			500			595	311,408
Major power producers	304,497		304,497	295,643		295,643	278,149		278,149
Autogenerators	35,733	595	36,328	35,427	588	36,015	32,664	595	33,259
Heat generation	21,844		21,844	22,488		22,488	22,023		22,023
Petroleum refineries	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	
Energy industry use	88,318	150	88,468	87,047	114	87,161	81,747	112	81,859
Electricity generation	-	-	-	-	-	-	-	-	-
Oil and gas extraction	77,753	-	77,753	73,372	-	73,372	69,252	-	69,252
Petroleum refineries	3,076	-	3,076	5,163	-	5,163	5,161	-	5,161
Coal extraction	-	150	150	-	114	114	-	112	112
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	728	-	728	941	-	941	611	-	611
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-	-
Other	6,761	-	6,761	7,572	-	7,572	6,723	-	6,723
Losses (4)	8,207	-	8,207	10,964	-	10,964	12,014	-	12,014
Final consumption	673,795	65	673,860	651,969	55	652,024	619,988	47	620,035
Industry	153,888	65	153,953	151,386	55	151,441	144,494	47	144,541
Unclassified	-	65	65	-	55	55	-	47	47
Iron and steel	9,715	-	9,715	8,453	_	8,453	8,391	-	8,391
Non-ferrous metals	3,199	-	3,199	3,168	-	3,168	3,106	-	3,106
Mineral products	13,401	_	13,401	18,302	_	18,302	17,803	-	17,803
Chemicals	42,002	_	42,002	36,076	_	36,076	34,334	_	34,334
Mechanical Engineering, etc	8,611	_	8,611	8,577	_	8,577	8,180	_	8,180
Electrical engineering, etc	4,158	_	4,158	4,134	_	4,134	3,922	_	3,922
Vehicles	10,228		10,228	9,959		9,959	9,470		9,470
Food, beverages, etc	28,232		28,232	24,921		24,921	23,714		23,714
Textiles, leather, etc	7,120	_	7,120	7,031	_	7,031	6,637	_	6,637
Paper, printing, etc	13,879	-	13,879	17,689	-	17,689	16,518	-	16,518
Other industries		-			-			-	
	10,413	-	10,413	10,400	-	10,400	9,864	-	9,864
Construction	2,931	-	2,931	2,676	-	2,676	2,555	-	2,555
Transport	-	-	-	-	-	-	-	-	-
Air	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-	-
Pipelines		-		-	-	-	-	-	-
Other	509,886	-	509,886	492,670	-	492,670	467,582	-	467,582
Domestic	396,411	-	396,411	381,879	-	381,879	366,928	-	366,928
Public administration	51,934	-	51,934	50,319	-	50,319	45,803	-	45,803
Commercial	37,595	-	37,595	38,197	-	38,197	34,273	-	34,273
Agriculture	2,355	-	2,355	2,261	-	2,261	2,013	-	2,013
Miscellaneous	21,591	-	21,591	20,014	-	20,014	18,564	-	18,564

Commodity balances (continued) Natural gas

GWh

ivalurai yas									GWn
		2007			2008			2009	
	Natural	Colliery	Total	Natural	Colliery	Total	Natural	Colliery	Total
	gas	methane	Natural gas	gas	methane	Natural gas	gas	methane	Natural gas
Supply									
Production	838,092	717	838,809	809,649	736	810,385	693,965	775	694,741
Other sources	-	-	-	-	-	-	-	-	-
Imports	338,026	-	338,026	407,054	-	407,054	455,789	-	455,789
Exports	-123,158	-	-123,158	-122,670	-	-122,670	-137,100	-	-137,100
Marine bunkers	-	-	-	-	-	_	-	-	-
Stock change (1)	+5,480	-	+5,480	-3,087	-	-3,087	-4,876	-	-4,876
Transfers (2)	-78	_	-78	-68	_	-68	-351	_	-351
Total supply	1,058,363	717	1,059,080	1,090,878	736	1,091,614	1,007,427	775	1,008,202
Statistical difference (3)	+186		+186	+4,456		+4,456r	-3,994r		-3,994r
Total demand	1,058,177	717	1,058,894	1,086,422	736	1,087,158r	1,011,421r	775	1,012,196r
Transformation	378,932	586	379,518	401,630	607	402,236	381,404	657	382,061
		586		376,204	607	376,810		657	
Electricity generation	355,292	300	355,878 319,836				358,646	657	359,303
Major power producers	319,836	-		344,454	-	344,454	328,249		328,249
Autogenerators	35,456	586	36,042	31,750	607	32,357	30,397	657	31,054
Heat generation	23,640		23,640	25,426	-	25,426	22,758	-	22,758
Petroleum refineries	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-		-	-	-
Energy industry use	75,934	91	76,025	72,185	95	72,280	69,093r	89	69,182r
Electricity generation	-	-	-	-	-	-	-	-	-
Oil and gas extraction	64,230	-	64,230	61,292	-	61,292	61,110	-	61,110
Petroleum refineries	5,206	-	5,206	4,971	-	4,971	4,033r	-	4,033r
Coal extraction	-	91	91	-	95	95	-	89	89
Coke manufacture	-	-	-	-	-	-	-	-	-
Blast furnaces	719	-	719	718	-	718	450	-	450
Patent fuel manufacture	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-	-
Other	5,779	-	5,779	5,204	-	5,204	3,499	-	3,499
Losses (4)	12,078	-	12,078	13,623	-	13,623	16,356	-	16,356
Final consumption	591,234	40	591,274	598,984	34	599,018r	544,569r	29	544,598r
Industry	133,310	40	133,350	133,899r	34	133,933r	113,113r	29	113,142r
Unclassified	-	40	40	-	34	34	-	29	29
Iron and steel	7,323	-	7,323	6,920	-	6,920	5,037		5,037
Non-ferrous metals	2,864	_	2,864	2,931r	_	2,931r	2,236r	_	2,236r
Mineral products	16,878	_	16,878	18,695r	_	18,695r	15,248r	_	15,248r
Chemicals	30,140	_	30,140	28,217r	_	28,217r	24,017r	_	24,017r
Mechanical Engineering, etc	7,670	_	7,670	7,822r	_	7,822r	5,812r	_	5,812r
Electrical engineering, etc	3,736		3,736	3,725r		3,725r	3,012r		3,017r
Vehicles	3,736 8,532	-	3,736 8,532	3,7251 8,560r	-	3,7251 8,560r	3,0171 7,107r	-	7,107r
		-			-			-	
Food, beverages, etc	22,973	-	22,973	23,003r	-	23,003r	21,460r	-	21,460r
Textiles, leather, etc	6,078	-	6,078	6,013r	-	6,013r	5,167r	-	5,167r
Paper, printing, etc	15,511	-	15,511	16,706r	-	16,706r	14,936r	-	14,936r
Other industries	9,229	-	9,229	9,017r	-	9,017r	7,228r	-	7,228r
Construction	2,378	-	2,378	2,289r	-	2,289r	1,847r	-	1,847r
Transport	-	-	-	-	-	-	-	-	-
Air	-	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-	-
Other	447,695	-	447,695	456,880r	-	456,880r	424,569r	-	424,569r
Domestic	352,868	-	352,868	359,554	-	359,554	332,499	-	332,499
Public administration	42,444	-	42,444	45,665r	-	45,665r	45,233r	-	45,233r
Commercial	33,098	-	33,098	38,448r	-	38,448r	34,791r	-	34,791r
Agriculture	1,998	-	1,998	2,161	-	2,161	1,760r	-	1,760r
Miscellaneous	17,286	-	17,286	11,052r	-	11,052r	10,285r	-	10,285r

Commodity balancesElectricity

												GWh
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Total electricity												
Supply												
Production	361,078	365,250	374,374	382,356	384,594	395,475	391,280	395,430	393,429	392,971	384,783r	373,068r
Other sources (1)	1,624	2,902	2,694	2,422	2,652	2,734	2,649	2,930	3,853	3,859	4,089	3,685
Imports	12,599	14,507	14,308	10,663	9,182	5,119	9,784	11,160	10,282	8,613	12,294	6,609
Exports	-131	-263	-134	-264	-768	-2,959	-2,294	-2,839	-2,765	-3,398	-1,272	-3,748
Marine bunkers	-	-	-	-	-	-	-	-	-	-	-	-
Stock change	-	-	-	-	-	-	-	-	-	-	-	-
Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Total supply	375,170	382,396	391,243	395,177	395,661	400,369	401,418	406,681	404,799	402,044	399,894r	379,614r
Statistical difference (2)	+1,861	+1,564	+1,497	+1,167	+983	+2,208	+2,447	+227	+104	-392	235r	138r
Total demand	373,309	380,832	389,746	394,010	394,678	398,161	398,971	406,454	404,695	402,437	399,659r	379,476r
Transformation	-	-	-	-	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-	-	-	-	-
Other generators	-	-	-	-	-	-	-	-	-	-	-	-
Heat generation	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-
Energy industry use	29,674	29,790	30,680	30,387	31,297	32,081	29,296	30,105	32,055	32,558	29,988r	29,685r
Electricity generation	17,408	16,707	16,304	17,394	17,126	18,136	17,032	17,873	18,503	17,694	16,340r	16,571r
Oil and gas extraction	537	408	527	675	540	551	558	505	546	560	598	594
Petroleum refineries	5,136	4,981	6,362	5,231	6,553	5,769	4,681	4,459	4,660	5,634	4,351	4,519
Coal extraction and coke manufacture	1,334	1,358	1,283	1,223	1,163	1,190	1,118	1,165	1,133	1,073	1,058	1,018
Blast furnaces	948	948	877	885	502	492	468	515	497	479	452	464
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-	-	-
Pumped storage	2,594	3,774	3,499	3,210	3,463	3,546	3,497	3,707	4,918	5,071	5,371	4,843
Other	1,717	1,614	1,828	1,769	1,950	2,398	1,942	1,881	1,798	2,047	1,818	1,676
Losses	27,957	28,298	29,649	30,902	29,980	29,862	30,728	27,674	27,410	28,223	27,849r	28,043r
Final consumption	315,678	322,744	329,420	332,721	333,401	336,218	338,948	348,675	345,229	341,656	341,822	321,748
Industry	107,177	110,978	114,112	111,337	110,168	109,278	111,467	116,024	114,896	112,799	114,151	99,738
Unclassified	-	-	-	-	-	-	-	-	-	-	-	-
Iron and steel	9,571	9,779	6,349	5,303	5,092	5,434	5,412	5,020	5,860	4,937	4,657	3,615
Non-ferrous metals	5,698	5,895	6,152	7,324	6,325	7,244	7,468	7,693	7,524	7,386	7,391	6,075
Mineral products	7,142	7,265	8,109	7,247	7,015	7,451	7,535	7,978	7,869	7,811	7,931	7,010
Chemicals	20,916	21,677	23,732	21,079	22,361	19,741	19,928	21,125	20,391	20,197	20,287	17,702
Mechanical engineering, etc	8,520	8,824	9,420	8,569	8,494	8,539	8,410	8,633	8,490	8,458	8,614	7,688
Electrical engineering, etc	5,996	6,006	6,196	5,697	5,830	5,969	6,609	7,420	7,341	7,290	7,397	6,455
Vehicles	5,586	5,615	6,316	5,824	5,575	5,610	5,582	5,841	5,748	5,723	5,812	5,012
Food, beverages, etc	11,852	12,524	11,724	11,570	11,866	11,449	12,048	12,273	12,117	12,082	12,257	10,741
Textiles, leather, etc	3,666	3,751	3,599	3,303	3,423	3,403	3,333	3,393	3,360	3,349	3,395	3,013
Paper, printing, etc	10,684	10,989	11,416	11,511	11,688	12,550	13,171	13,225	12,906	12,741	12,865	11,069
Other industries	16,012	17,125	19,514	22,213	20,799	20,186	20,166	21,495	21,449	21,028	21,729	19,771
Construction	1,534	1,528	1,586	1,698	1,700	1,701	1,804	1,929	1,840	1,798	1,817	1,586
Transport (3)	8,511	8,579	8,623	8,828	8,454	8,212	4,058	4,059	4,002	3,962	3,943	4,040
Air	-	-	-	-	-	-	-	-	-	-	-	-
Rail (4)	2,700	2,700	2,700	2,700	2,700	2,700	4,039	4,040	3,983	3,943	3,925	4,022
Road (5)	-				-	-	19	19	19	18	18	18
National navigation	-	_	-	-	-	_	-	-	-	-	-	-
Pipelines	-	-	-	-	-		-		-	-	-	-
Other	199,990	203,187	206,685	212,557	214,779	218,728	223,423	228,591	226,331	224,895	223,728	217,970
Domestic	109,410	110,308	111,842	115,337	120,014	123,001	124,200	125,711	124,704	123,076	119,800	118,541
Public administration	21,577	21,951	20,913	21,105	20,357	20,423	20,157	20,028	20,012	20,087	20,355	19,442
Commercial	64,952	66,748	69,571	72,014	70,363	71,298	75,021	78,850	77,606	77,677	79,506	76,187
		4,180	4,358	4,100			4,044	4,002	4,009	4,055	4,067	3,801
Agriculture												
Agriculture Miscellaneous	4,051	4,100	4,356	4,100	4,045	4,005	4,044	4,002	4,009	4,033	4,007	-,

Commodity balances (continued)

Electricity

												GWh
•	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Electricity production												
Total production (6)	361,078	365,250	374,374	382,356	384,594	395,475	391,280	395,430	393,429	392,971	384,783r	373,068r
Primary electricity												
Major power producers	+103,723	+99,564	+89,394	+93,307	+91,776	+91,254	+83,907	+85,444	+79,144	+70,741	+62,067	80,296r
Nuclear	99,486	95,133	85,063	90,093	87,848	88,686	79,999	81,618	75,451	63,028	52,486	69,098
Large scale hydro (6)	4,237	4,431	4,331	3,215	3,927	2,523	3,773	3,637	3,481	3,906	3,971	4,029
Small scale hydro (9)					(7)	44	135	189	212	238	253	265
Wind (5)	-	-	-	-	-	-	-	-	-	3,569	5,357	6,904
Other generators	1,757	1,756	1,701	1,805	2,119	1,948	2,875	4,008	5,136	2,652	2,684r	3,371r
Nuclear	-	-	-	-	-	-	-	-	-	-	-	-
Large scale hydro	674	698	540	630	657	561	788	841	634	648	629	635
Small scale hydro (9)	206	207	214	210	204	99	148	254	266	285	302	312
Wind, wave and solar photovoltaics (7)	877	851	947	965	1,259	1,288	1,939	2,912	4,236	1,719	1,753r	2,424r
Secondary electricity												
Major power producers	228,417	234,142	249,695	257,328	259,566	268,612	271,758	273,838	278,236	286,717	289,053	258,394
Coal	118,595	102,074	117,025	127,128	120,958	134,023	127,827	130,690	144,947	132,074	120,305	99,287r
Oil	3,442	2,943	2,415	2,472	2,011	2,197	1,883	2,921	3,723	2,955	4,557r	3,839r
Gas	105,804	128,365	129,558	126,999	135,741	131,238	140,577	137,483	126,637	149,346	161,583	152,598
Renewables	576	760	698	729	856	1,154	1,471	2,744	2,928	2,341	2,608r	2,670r
Other	-	-	-	-	-	-	-	-	-	-	-	-
Other generators	27,181	29,788	33,584	29,915	31,133	33,660	32,740	32,140	30,914	32,860	30,979r	31,008r
Coal	4,376	4,106	2,925	4,333	3,321	4,282	3,961	3,947	3,903	3,870	4,077	3,751
Oil	3,913	3,606	4,109	2,781	2,788	2,397	2,761	2,417	2,450	2,093	2,152	2,155
Gas	11,994	14,537	18,519	14,906	16,536	17,643	16,487	15,159	14,191	16,447	14,636	13,901
Renewables	2,661	3,227	3,630	4,318	4,769	5,537	6,469	6,941	6,999	6,983	6,927r	8,004r
Other	4,237	4,312	4,401	3,577	3,719	3,800	3,062	3,676	3,371	3,467	3,188	3,196r
Primary and secondary production (8)												
Nuclear	99,486	95,133	85,063	90,093	87,848	88,686	79,999	81,618	75,451	63,028	52,486	69,098
Hydro	5,117	5,336	5,085	4,055	4,788	3,228	4,844	4,921	4,593	5,077	5,155	5,241
Wind, wave and solar photovoltaics	877	3,350 851	947	965	1,259	1,288	1,939	2,912	4,236	5,288	7.110r	9,328r
Coal	122,971	106,180	119,950	131,461	124,279	138,305	131,788	134,637	148,850	135,944	124,381	103,038r
Oil	7.355	6.549	6.524	5,253	4,799	4,594	4,644	5.338	6,173	5.048	6.709r	5.995r
Gas	117,798	142,902	148,077	141,905	152,277	148,881	157,064	152,642	140,828	165,793	176,219	166,499
Other renewables	3,237	3,987	4,328	5,048	5,625	6,692	7,940	9,685	9,928	9,325	9,535r	10,674r
Other	4,237	4,312	4,401	3,577	3,719	3,800	3,062	3,676	3,371	3,467	3,188	3,196r
Total production	361,078	365,250	374,375	382,356	384,594	395,475	391,280	395,430	393,429	392,971	384,783r	373,068r
· otal production	,	,	,	,	,	,	,	,	,	,	,	2. 2,2 301

- (1) Pumped storage production.
- (2) Total supply minus total demand.
- (3) From 2004, non-traction Transport sector consumption is included under 'Commercial'.
- (4) From 2004, this includes light rail and metro systems (eg. London Underground).
- (5) Included from 2004.
- (6) Excludes pumped storage production.
- (7) From 2007, major wind farm companies are included under Major Power Producers, see paragraph 5.68.
- (8) These figures are the same as the electricity generated figures in Table 5.6 except that they exclude pumped storage production. Table 5.6 shows that electricity used on works is deducted to obtain electricity supplied. It is electricity supplied that is used to produce Chart 5.2 showing each fuel's share of electricity output (see paragraph 5.31).
- (9) A re-assessment in 2004 showed that some small scale hydro output previously classified to Other Generators should be classified to Major Power Producers.

Commodity balances 2009 Renewables and waste

	Wood	Wood	Poultry litter, meat	Straw, SRC, and	Sewage	Landfill gas
	waste		and bone, and	other plant-based	gas	3
			farm waste	biomass (3)	_	
Supply						
Production	180r	357r	287r	709r	249r	1,630r
Other sources	-	-	-	-	-	-
Imports	68r	4	-	423	-	-
Exports	-25	-16	-	-5	-	-
Marine bunkers	-	-	-	-	-	-
Stock change (1)	-	-	-	-	-	-
Transfers	-	-	-	-	-	-
Total supply	223	345r	287r	1,128r	249r	1,630r
Statistical difference (2)	-	-	-	-	-	-
otal demand	223	345r	287r	1,128r	249r	1,630r
Transformation Transformation	-	-	246r	931r	198r	1,617r
Electricity generation	-	-	246r	900	198r	1,617r
Major power producers	-	-	165	491	-	-
Autogenerators	-	-	81r	409	198r	1,617r
Heat generation	-	-	-	31r	-	-
Petroleum refineries	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	_	-	_	_	_	-
Patent fuel manufacture	_	-	-	_	_	_
Other	-	-	-	-	-	-
Energy industry use			-	-	_	-
Electricity generation	-	-	- -	- -	_	- -
Oil and gas extraction	_		_		_	
Petroleum refineries	-	-	-	<u>-</u>	-	-
Coal extraction	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-
Other Losses	-	-	-	-	-	-
	223	345r	40	400-	- 51	- 44
Final consumption	223	343r -	38	196r 69	- 31	14 14
ndustry		-			-	
Jnclassified	223	-	38	69	-	14
ron and steel	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-	-
/ehicles	-	-	-	-	-	-
ood, beverages, etc	-	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-	-
Paper, printing, etc	-	-	-	-	-	-
Other industries	-	-	-	-	-	-
Construction	-	-	-	-	-	-
ransport	-	-	-	-	-	-
ir	-	-	-	-	-	-
tail	-	-	-	-	-	-
Road	-	-	-	-	-	-
lational navigation	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-
Other	_	345r	2	127r	51	-
Domestic	-	345r	-		-	-
Public administration	_	-	-	_	51	-
Commercial	-	_	_	_	-	-
Agriculture	_	_	2	127r	_	-
Miscellaneous	_	_	_	12/1	_	_
nioceilai iecuo	-	-	-	<u> </u>	-	-

⁽⁴⁾ Municipal solid waste, general industrial waste and hospital waste. (5) The amount of shoreline wave and tidal included is less than 0.1 ktoe.

Non energy use

(1) Stock fall (+), stock rise (-).
(2) Total supply minus total demand.
(3) SRC is short rotation coppice.

Commodity balances 2009 (continued) Renewables and waste

isand tonnes of oil equiva							
	Total renewables	Liquid biofuels	Wind wave and tidal <i>(5)</i>	Hydro	Heat pumps	Geothermal, active solar heat and PV	Waste(4) and tyres
Supply			(0)				
Production	6,145r	226	800	451	11	80r	1,165
Other sources	-	-	-	-	-	-	-
Imports	1,308r	812	-	-	-	-	-
Exports	-46	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	-	-
Stock change (1)	-	-	-	-	-	-	-
Transfers	-	-	-	-	-	-	-
Total supply	7,407r	1,038	800	451	11	80r	1,165
Statistical difference (2)	-	-	=	-	-	-	-
Total demand	7,407r	1,038	800	451	11	80r	1,165
Transformation	5,283r	-	800	451	-	2	1,038r
Electricity generation	5,204r	-	800	451	-	2	990r
Major power producers	1,706	-	594	369	-	-	87
Autogenerators	3,497r	-	207r	81	-	2	902r
Heat generation	79r	-	-	-	-	-	48r
Petroleum refineries	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Energy industry use	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Losses		4 000	-	-	- 44	- 70-	400-
Final consumption	2,125r	1,038	-	-	11	78r -	128r 70r
Industry	415r	-	-	-	0	-	
Unclassified Iron and steel	415r -	-	-	-	0	-	70r
Non-ferrous metals	-	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-	-
Chemicals						_	
Mechanical engineering, etc	_	_	_	_	_	_	_
Electrical engineering, etc						_	
Vehicles	_	_	_	_	_	_	_
Food, beverages, etc	-	-	-	-	-	-	-
Textiles, leather, etc	_	_	_	_	_	_	_
Paper, printing, etc	_	_	_	_	_	_	_
Other industries	_	_	_	_	_	_	_
Construction	_	_	_	_	_	_	_
Transport	1,038	1,038	_	_	-	_	_
Air	-,000	- ,000	-	_	_	_	_
Rail	_	_	-	_	_	_	_
Road	1,038	1,038	-	_	_	_	_
National navigation	-,,,,,,		-	_	_	_	_
Pipelines	_	_	-	_	_	_	_
Other	671r	_	-	_	11	78r	57r
Domestic	446r	_	-	_	8r	77r	16
Public administration	84r	_	-	_	-	0	32r
Commercial	12r	_	-	_	3r	0	9
Agriculture	129r	_	-	_	-	-	-
Miscellaneous	-	_	-	_	_	_	_

Commodity balances 2008 Renewables and waste

	147	14/	Decelored Pro			f oil equivalent
	Wood waste	Wood	Poultry litter, meat and bone, and	Straw, SRC, and other plant-based	Sewage gas	Landfill gas
Sunnly			farm waste	biomass (3)		
Supply Production	220	316r	308r	467r	230r	1,564r
	220	3101	3081	40/1	2301	1,3041
Other sources	-	-	-	-	-	-
mports	-	-	-	433	-	-
Exports	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	-
Stock change (1)	-	-	-	-	-	-
Transfers	-	-	-	-	-	-
Total supply	220	316r	308r	900r	230r	1,564r
Statistical difference (2)	-	-	-	-	-	-
Total demand	220	316r	308r	900r	230r	1,564r
Transformation	2r	-	266r	706	180r	1,551r
Electricity generation			266r	706	180r	1,551r
	-	-	170	706 541	1001	1,0011
Major power producers		-				- 1 EF1-
Autogenerators		-	96r	166	180r	1,551r
Heat generation	2r	-	-	•	-	-
Petroleum refineries	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Other	-	-	-	=	-	-
Energy industry use	_	-	-		-	-
Electricity generation	-	_	_	_	_	_
Oil and gas extraction	_	_	_	_	_	=
Petroleum refineries	=	-	-	•	-	-
Petroleum relineries Coal extraction	-	-	-	-	-	-
	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-
Other	-	-	-	-	-	-
_osses	-	-	-	-	-	-
inal consumption	218r	316r	42	194r	50	14
ndustry	218r	-	40	56	-	14
Jnclassified	218r	_	40	56	_	14
ron and steel	- 101	_	40	50	_	14
Non-ferrous metals	-	-	-	-	=	-
	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-
Chemicals	-	-	-	•	-	-
Mechanical engineering, etc	-	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-	-
/ehicles	-	-	-	-	-	-
ood, beverages, etc	-	-	-	-	-	-
extiles, leather, etc	-	-	-	-	-	-
Paper, printing, etc	-	-	-	-	-	-
Other industries	-	-	-	-	-	-
Construction	_	_	_	-	_	_
Fransport	_	_	_	_	_	_
vir	_	_		- -	_	-
Rail	-	-	-	-	=	-
	-	-	-	-	-	-
Road	-	-	-	-	-	-
lational navigation	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-
Other	-	316r	2	138r	50	-
Domestic	-	316r	-	=	-	-
Public administration	-	-	-	-	50	-
Commercial	-	-	-	-	-	-
Agriculture	_	_	2	138r	_	_
Miscellaneous	_	_	-		_	
nioconai icous	-		<u> </u>	-		

⁽⁴⁾ Municipal solid waste, general industrial waste and hospital waste.

⁽¹⁾ Stock fall (+), stock rise (-).
(2) Total supply minus total demand.
(3) SRC is short rotation coppice.

⁽⁵⁾ The amount of shoreline wave included is less than 0.05 ktoe.

Commodity balances 2008 (continued) Renewables and waste

sand tonnes of oil equiva		المناب ا	الم ۱۸۷:	ماريط م	Uaat	Goothormal	Wasts (4)
	Total renewables	Liquid biofuels	Wind and wave	Hydro	Heat pumps	Geothermal, active solar	Waste(4) and
			(5)			heat and PV	tyres
Supply							
Production	5,516r	302	610	443	3	49r	1,002
Other sources	-	-	-	-	-	-	-
Imports	975	542	-	-	-	-	-
Exports	-	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	-	-
Stock change (1)	-	-	-	-	-	-	-
Transfers			-			-	
Total supply	6,491r	845	610	443	3	49r	1,002
Statistical difference (2)		-	-	- 440			- 1 000
Total demand	6,491r	845	610	443	3	49r	1,002
Transformation	4,624r	-	610	443	-	1	864r
Electricity generation	4,574r	-	610 461	443	-	1	817r 93
Major power producers	1,627 2,947r	-	149r	363	-	1	
Autogenerators Heat generation	2,9471 49r	-	1491	80	-	I -	724 47r
Petroleum refineries	491	-	-	-	-	-	4/1
Coke manufacture	-	-	-	-	-	-	-
Blast furnaces	_	_	_	_	_	_	_
Patent fuel manufacture	-	-	-	-	-	-	-
Other	_	_	_	_	-	_	_
Energy industry use	-						
Electricity generation	_	_	_	_	_	_	_
Oil and gas extraction	_	_	_	_	-	-	_
Petroleum refineries	_	_	-	_	-	-	_
Coal extraction	_	_	-	_	-	-	_
Coke manufacture	_	_	-	-	-	-	-
Blast furnaces	_	_	-	-	-	-	-
Patent fuel manufacture	-	-	_	-	-	-	-
Pumped storage	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Losses	-	-	-	-	-	-	-
Final consumption	1,867r	845	-	-	3	48r	138r
Industry	414r	-	-	-	0	-	86r
Unclassified	414r	-	-	-	0	-	86r
Iron and steel	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-	-
Food, beverages, etc	-	-	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-	-	-
Paper, printing, etc	-	-	-	-	-	-	-
Other industries	-	-	-	-	-	-	-
Construction	-	- 	-	-	-	-	-
Transport	845	845	-	-	-	-	-
	-	-	-	-	-	-	-
Air	-	- 0.45	-	-	-	-	-
Rail	~	015	-	-	-	-	-
Rail Road	845	845				-	-
Rail Road National navigation	-	-	-	-	-		
Rail Road National navigation Pipelines	-		-	-	- - -	-	-
Rail Road National navigation Pipelines Other	- - 608r	- - -	- - -	- - -	- - 3	- 48r	52r
Rail Road National navigation Pipelines Other Domestic	- - 608r 381r	- - -	- - -	- - -	- - 3 2r	47r	16
Rail Road National navigation Pipelines Other Domestic Public administration	- - 608r 381r 75r	- - - -	- - - -	- - - -	2r -	47r 0	16 24r
Rail Road National navigation Pipelines Other Domestic Public administration Commercial	- 608r 381r 75r 13	- - - - -	- - - - -	- - - - -		47r	16
Rail Road National navigation Pipelines Other Domestic Public administration	- - 608r 381r 75r	- - - - - -	- - - - - -	- - - - - -	2r -	47r 0	16 24r

Commodity balances 2007 Renewables and waste

	Was d	\M	Douling litter me-t			f oil equivalent
	Wood waste	Wood	Poultry litter, meat and bone, and farm waste	Straw, SRC, and other plant-based biomass (3)	Sewage gas	Landfill gas
Supply			iaiiii wasie	bioillass (5)		
Production	101	332	270	449	211	1,547
Other sources	-	-	-	-		-
Imports	-	-	-	378	-	-
Exports	-	_	-	-	-	-
Marine bunkers	-	-	-	-	-	-
Stock change (1)	-	-	-	-	-	-
Transfers	-	-	-	-	-	-
Total supply	101	332	270	827	211	1,547
Statistical difference (2)	-	-	-	-	-	-
Total demand	101	332	270	827	211	1,547
Transformation	-	-	223	714	162	1,534
Electricity generation	-	-	223	714	162	1,534
Major power producers	-	-	145	437	-	-
Autogenerators	-	-	77	277	162	1,534
Heat generation	-	-	-	-	-	, -
Petroleum refineries	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Other	-	-	-	-	-	-
Energy industry use	-		-	-	-	-
Electricity generation	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-
Other	-	-	-	-	-	-
Losses	-	-	-	-	-	-
Final consumption	101	332	48	113	49	14
Industry	101	-	46	25	-	14
Unclassified	101	-	46	25	-	14
Iron and steel	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-
Food, beverages, etc	-	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-	-
Paper, printing, etc	-	-	-	-	-	-
Other industries	-	-	-	-	-	-
Construction	-	-	-	-	-	-
Transport	-	-	-	-	-	-
Air	-	-	-	-	-	-
Rail	-	-	-	-	-	-
Road	-	-	-	-	-	-
National navigation	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-
Other	-	332	2	87	49	-
Domestic	-	332	-	-	-	-
Public administration	-	-	-	-	49	-
Commercial	-	-	-	-	-	-
Agriculture	-	-	2	87	-	-
Miscellaneous		-	-	<u> </u>		<u>-</u>
Non energy use	-	-	-	-		

⁽¹⁾ Stock fall (+), stock rise (-).
(2) Total supply minus total demand.
(3) SRC is short rotation coppice.

⁽⁴⁾ Municipal solid waste, general industrial waste and hospital waste. (5) The amount of shoreline wave included is less than 0.05 ktoe.

Commodity balances 2007 (continued) Renewables and waste

	Total	Liquid	Wind	Hydro	Geothermal,	Waste(4)
	renewables	biofuels	and wave		active solar	and
			(5)		heat and PV	tyres
Supply						•
Production	5,200	396	453	437	47	956
Other sources	-	_	-	-	-	-
Imports	454	76	-	-	-	-
Exports	-110	-110	-	-	-	-
Marine bunkers	_	_	-	-	-	-
Stock change (1)	_	_	-	-	-	-
Transfers	_	_	-	-	-	-
Total supply	5,544	362	453	437	47	956
Statistical difference (2)	-	-	-	-	-	-
Total demand	5,544	362	453	437	47	956
Transformation	4,309	-	453	437	1	785
Electricity generation	4,309	_	453	437	1	785
Major power producers	1,338	_	307	356	· -	93
Autogenerators	2,971	_	147	80	1	692
Heat generation	-	_		-		-
Petroleum refineries	_	_	_	_	_	_
Coke manufacture	-					
Blast furnaces	-	-				
	-	-	-	-	-	-
Patent fuel manufacture		-	-	-	-	-
Other	-	-	-	-	•	
Energy industry use	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-
Other	-	-	-	-	-	-
Losses	-	-	-	-	-	-
Final consumption	1,235	362	-	-	46	171
Industry	276	-	-	-	-	90
Unclassified	276	-	-	-	-	90
Iron and steel	-	-	-	-	-	-
Non-ferrous metals	-	_	-	-	-	-
Mineral products	_	_	-	-	-	-
Chemicals	_	_	_	_	-	_
Mechanical engineering, et	_	_	_	_	_	_
Electrical engineering, etc	_	_	_	_	-	_
Vehicles	-	-	_	-	_	_
Food, beverages, etc	_	-	_	-	_	_
Textiles, leather, etc	-	-	-	-	-	_
Paper, printing, etc	_	-	-	-	-	_
Other industries	-	-	-	-	-	-
Other industries Construction	-	-	-	-	-	-
	-	-	-	-	-	-
Transport	362	362	-	-	-	-
Air	-	-	-	-	-	-
Rail	-	<u>-</u>	-	-	-	-
Road	362	362	-	-	-	-
National navigation	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-
Other	597	-	-	-	46	81
Domestic	400	-	-	-	45	23
Public administration	89	-	-	-	0	39
Commercial	20	-	-	-	0	19
Agriculture	89	-	-	-	-	-

Non energy use

Commodity balances 2006 Renewables and waste

	Wood	Wood	Poultry litter, meat	Straw, SRC, and	Sewage	of oil equivalent Landfill gas
	waste	11000	and bone, and farm waste	other plant-based	gas	Lanami gao
Supply			tarm waste	biomass (3)		
Supply	07	200	470	FEO	100	4 465
Production	97	299	173	558	190	1,465
Other sources	-	-	-	407	-	-
Imports	-	-	-	497	-	-
Exports	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	=
Stock change (1)	-	-	-	-	-	=
Transfers	-	-	-	-	-	-
Total supply	97	299	173	1,055	190	1,465
Statistical difference (2)	-	-	-	-	-	-
Total demand	97	299	173	1,055	190	1,465
Transformation	-	-	149	952	146	1,451
Electricity generation	-	-	149	952	146	1,451
Major power producers	-	-	129	555	-	-
Autogenerators	-	-	19	397	146	1,451
Heat generation	-	-	-	_	-	, -
Petroleum refineries	-	_	-	_	-	=
Coke manufacture	_	-	-	-	-	_
Blast furnaces	_	-	-	-	-	_
Patent fuel manufacture	-	_	_	-	-	_
Other	_	_	-	-	-	_
Energy industry use				_		
Electricity generation						
Oil and gas extraction	_	_	_	_	_	_
Petroleum refineries	-	-	-	-	-	-
	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-
Other	-	-	-	-	-	-
Losses	-	-	-	-	-	-
Final consumption	97	299	25	103	44	14
Industry	97	-	23	15	-	14
Unclassified	97	-	23	15	-	14
Iron and steel	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	=
Mineral products	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-
Mechanical engineering, etc	-	-	_	-	-	-
Electrical engineering, etc	-	-	_	-	-	-
Vehicles	-	-	<u>-</u>	_	-	=
Food, beverages, etc	-	_	-	_	-	=
Textiles, leather, etc	_	_	_	<u>-</u>	_	_
Paper, printing, etc	_	_	_	<u>-</u>	_	_
Other industries	_	_	<u>-</u>	_	_	_
Construction	_	_	_	_	_	_
Transport	_	_	_	_	_	_
Air	=	-	-	-	-	-
Rail	-	-	-	-	-	-
Road	-	-	-	-	-	-
	-	-	-	-	-	-
National navigation	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-
Other	-	299	2	88	44	-
Domestic	-	299	-	-	- -	-
Public administration	-	-	-	-	44	-
Commercial	-	-	=	-	-	-
Agriculture	-	-	2	88	-	-
Miscellaneous			<u> </u>	<u> </u>	<u> </u>	
Non energy use	-	-		_		-

⁽¹⁾ Stock fall (+), stock rise (-).
(2) Total supply minus total demand.
(3) SRC is short rotation coppice.

⁽⁴⁾ Municipal solid waste, general industrial waste and hospital waste.

⁽⁵⁾ The amount of shoreline wave included is less than 0.05 ktoe.

Commodity balances 2006 (continued) Renewables and waste

	Tho	l iauria	Wind	Ultralina	Caathammal	Masta (1)
	Total	Liquid		Hydro	Geothermal,	Waste(4)
	renewables	biofuels	and wave		active solar	and
			(5)		heat and PV	tyres
Supply	. ===					
Production	4,728	231	363	395	38	918
Other sources	-	-	-	-	-	-
Imports	550	53	-	-	-	-
Exports	-97	-97	-	-	-	-
Marine bunkers	-	-	-	-	-	-
Stock change (1) Transfers	-	-	-	-	-	-
	5,181	400				- 040
Total supply Statistical difference (2)	3,101	188	363	395	38	918
Total demand	5,181	188	363	395	38	918
Transformation	4,229	100	363	395		773
	4,229	-	363	395 395	1	773 773
Electricity generation Major power producers	1,097	-	-	318	ı	96
		-			-	677
Autogenerators	3,132	-	363	77	1	011
Heat generation Petroleum refineries	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Other	- -	-	-	-	-	-
			-	-	-	-
Energy industry use		-	-	-	-	-
Electricity generation	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-
Other	-	-	-	-	-	-
Losses	-	-	-	-		- 445
Final consumption	952	188	-	<u> </u>	37	145
Industry Unclassified	213	-	-	-	-	65 65
Iron and steel	213	-	-	-	-	65
Non-ferrous metals	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-
		-	-	-	-	-
Mechanical engineering, et Electrical engineering, etc	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-
Food, beverages, etc	-	-	-	-	-	-
	-	-	-	-	-	-
Textiles, leather, etc Paper, printing, etc	-	-	-	-	-	-
Other industries	-	-	-	-	-	-
Construction	-	-	-	-	-	-
Transport		188	-	-	-	-
Air	188	100	-	-	-	-
Rail	-	-	-	-	-	-
Road	188	188	-	-	-	-
National navigation	100	100	-	-	-	-
National navigation Pipelines	-	-	-	-	-	-
•		-	-	-	-	- 04
Other	550	-	-	-	37	81
Domestic Dublic administration	358	-	-	-	36	23
Public administration	83	-	-	-	0	39
Commercial	20 90	-	-	-	0	19
Agriculture						

Commodity balances 2005 Renewables and waste

	Wood	Wood	Poultry litter, meat	Straw, SRC, and	Sewage	Landfill gas
	waste		and bone, and	other plant-based	gas	J
			farm waste	biomass (3)	90	
Supply						
Production	93	266	176	632	206	1,421
Other sources	-	-	=	=	-	-
Imports	-	-	-	421	-	-
Exports	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	-
Stock change (1)	-	-	-	-	-	-
Transfers	-	-	-	-	-	-
Total supply	93	266	176	1,052	206	1,421
Statistical difference (2)		-		-		
Total demand	93	266	176	1,052	206	1,421
Transformation	-	-	162	960	153	1,407
Electricity generation	-	-	162 138	960 582	153	1,407
Major power producers Autogenerators	-	-	23	378	153	1,407
Heat generation			-	570	133	1,407
Petroleum refineries	-	-	- -	- -	-	<u>-</u>
Coke manufacture	- -	-	- -	-	- -	-
Blast furnaces	_	_	- -	- -	_	-
Patent fuel manufacture	_	_	-	_	_	_
Other	-	_	-	_	-	_
Energy industry use	_	-	-	-	-	-
Electricity generation	_	_	-	-	_	_
Oil and gas extraction	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-
Other	-	-	-	-	-	-
Losses	-	-	-	-	-	-
Final consumption	93	266	14	92	53	14
Industry	93	-	12	14	-	14
Unclassified	93	-	12	14	-	14
Iron and steel	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-
Food, beverages, etc	-	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-	-
Paper, printing, etc Other industries	-	-	-	-	-	-
Construction	-	-	-	-	-	-
Transport	_	_	_	_	-	_
Air	_	_	_	_	_	_
Rail	_	_	-	_	_	_
Road	_	_	-	-	_	_
National navigation	_	_	-	-	_	_
Pipelines	_	-	-	-	-	_
Other	-	266	2	79	53	_
Domestic	_	266	_ -	-	-	_
Public administration	-	-	=	=	53	-
Commercial	-	-	-	-	-	-
Agriculture	-	-	2	79	-	-
Miscellaneous	_	-	-	- -	_	_
	_		_	_	-	_

⁽¹⁾ Stock fall (+), stock rise (-).
(2) Total supply minus total demand.
(3) SRC is short rotation coppice.

⁽⁴⁾ Municipal solid waste, general industrial waste and hospital waste (5) The amount of shoreline wave included is less than 0.05 ktoe

Commodity balances 2005 (continued) Renewables and waste

Waste(4)	Geothermal,	Hydro	Wind	Liquid	Total	
and	active solar	•	and wave	biofuels	renewables	
tyres	heat and PV		(5)	Diordoio	10110111415155	
tyres	neat and 1 v		(0)			Supply
849	31	423	250	8	4,354	Production
043	31	423	230	-	4,334	
-	-	-	-			Other sources
-	-	-	-	66	487	Imports
-	-	-	-	-	-	Exports
-	-	-	-	-	-	Marine bunkers
-	-	-	-	-	-	Stock change (1)
-	-	-	-	-	-	Transfers
849	31	423	250	74	4,841	Total supply
-	-	-	-	-	=	Statistical difference (2)
849	31	423	250	74	4,841	Total demand
688	1	423	250		4,043	Transformation
688	1	423	250		4,043	
	-			-		Electricity generation
89		329	-	-	1,139	Major power producers
599	1	94	250	-	2,905	Autogenerators
-	-	-	-	-	-	Heat generation
-	-	-	-	-	-	Petroleum refineries
-	-	-	-	-	-	Coke manufacture
_	-	-	-	-	-	Blast furnaces
_	_	_	_	_	_	Patent fuel manufacture
_	_	_	_	_	_	Other
						Energy industry use
-	-	-	-	-	-	
-	-	-	-	-	-	Electricity generation
-	-	-	-	-	-	Oil and gas extraction
-	-	-	-	-	-	Petroleum refineries
-	-	-	-	-	-	Coal extraction
_	-	-	-	-	-	Coke manufacture
_	-	_	-	_	_	Blast furnaces
_	_	_	_	_	-	Patent fuel manufacture
					_	
-	-	-	-	-		Pumped storage
-	-	-	-	-	=	Other
-	<u> </u>	-	-	-	-	Losses
161	30	-	-	74	798	Final consumption
68	-	-	-	-	201	Industry
68	-	-	-	-	201	Unclassified
_	-	-	-	-	-	Iron and steel
_	-	_	-	_	_	Non-ferrous metals
_	_	_	_	_	_	Mineral products
					_	Chemicals
	-	-	-	-		
-	-	-	-	-	-	Mechanical engineering, etc
-	-	-	-	-	-	Electrical engineering, etc
-	-	-	-	-	-	Vehicles
-	-	-	-	-	-	Food, beverages, etc
-	-	-	-	-	-	Textiles, leather, etc
-	-	-	-	-	-	Paper, printing, etc
_	_	_	_	_	_	Other industries
_	_	_	_	_	_	Construction
				74	74	Transport
	-	-	-	74		
-	-	-	-	-	-	Air
-	-	-	-			Rail
-	-	-	-	74	74	Road
-	-	-	-	-	-	National navigation
_	-	-	-	-	-	Pipelines
93	30	_	-	_	523	Other
23	29	-	-	_	318	Domestic
51	0				105	Public administration
		-	-	-		
19	0	-	-	-	20	Commercial
-	-	-	-	-	81	Agriculture
	-	-	-	-	-	Miscellaneous
	-				-	Non energy use

Commodity balances 2004 Renewables and waste

						of oil equivalent
	Wood	Wood	Poultry litter, meat	Straw, SRC, and	Sewage	Landfill gas
	waste		and bone, and	other plant-based	gas	
			farm waste	biomass (3)		<u>-</u>
Supply						
Production	196	204	184	124	177	1,327
Other sources	-	-	-	-	-	-
Imports	-	-	-	402	-	-
Exports	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	-
Stock change (1)	-	-	-	-	-	-
Transfers	-	-	-	-	-	<u>-</u>
Total supply	196	204	184	526	177	1,327
Statistical difference (2)	-	-	-	-	-	-
Total demand	196	204	184	526	177	1,327
Transformation	-	-	182	454	124	1,313
Electricity generation	-	-	182	454	124	1,313
Major power producers	-	-	159	290	-	-
Autogenerators	-	-	23	164	124	1,313
Heat generation	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Other	-	-	-	-	-	-
Energy industry use	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-
Other	-	-	-	-	-	-
Losses	-	-	-	-	-	-
Final consumption	196	204	2	72	53	14
Industry	196	-	-	-	-	14
Unclassified	196	-	-	-	-	14
Iron and steel	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-
Chemicals	-	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-
Food, beverages, etc	-	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-	-
Paper, printing, etc	-	-	-	-	-	-
Other industries	-	-	-	-	-	-
Construction	-	-	-	-	-	-
Transport	-	-	-	-	-	-
Air	-	-	-	-	-	-
Rail	-	-	-	-	-	-
Road	-	-	-	-	-	-
National navigation	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-
Other	-	204	2	72	53	-
Domestic	-	204	-	-	-	-
Public administration	-	-	-	-	53	-
Commercial	-	-	-	-	-	-
Agriculture	-	-	2	72	-	-
Miscellaneous	-	-	-	-	-	-
Non energy use	_	-	-	-	-	

⁽¹⁾ Stock fall (+), stock rise (-).

⁽²⁾ Total supply minus total demand.(3) SRC is short rotation coppice.

⁽⁴⁾ Municipal solid waste, general industrial waste and hospital waste.

⁽⁵⁾ The amount of shoreline wave included is less than 0.05 ktoe.

Commodity balances 2004 (continued) Renewables and waste

Thousand tonnes of oil equivalen	t
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					usand tonnes of oil equivalent
Waste(4)	Geothermal,	Hydro	Wind	Total	
and	active solar		and wave	renewables	
tyres	heat and PV		(5)		
					Supply
843	26	417	166	3,663	Production
-	-	-	-	-	Other sources
-	-	-	-	402	Imports
-	-	-	-	-	Exports
-	-	-	-	-	Marine bunkers
-	-	-	-	-	Stock change (1)
	-	-	-	-	Transfers
843	26	417	166	4,065	Total supply
-	-	-	-	-	Statistical difference (2)
843	26	417	166	4,065	Total demand
693	0	417	166	3,350	Transformation
693	0	417	166	3,350	Electricity generation
90	-	337	-	876	Major power producers
603	0	80	166	2,474	Autogenerators
-	-	-	_	, <u>-</u>	Heat generation
-	-	-	_	-	Petroleum refineries
-	-	-	_	-	Coke manufacture
-	_	-	_	_	Blast furnaces
	_	_	_	_	Patent fuel manufacture
-	_	-	_	_	Other
			-		Energy industry use
_	_	_	_	_	Electricity generation
_	_	_	_	_	Oil and gas extraction
_	_	_	_	_	Petroleum refineries
-		_	-	_	Coal extraction
-	-	-	-	-	Coke manufacture
-	-	-	-	-	Blast furnaces
-	-	-	-	-	
-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	Pumped storage
•	-	-	-	-	Other
- 440	-	-	-	-	Losses
149	25	-	-	715	Final consumption
56	-	-	-	265	Industry
56	-	-	-	265	Unclassified
-	-	-	-	-	Iron and steel
-	-	-	-	-	Non-ferrous metals
-	-	-	-	-	Mineral products
-	-	-	-	-	Chemicals
-	-	-	-	-	Mechanical engineering, etc
-	-	-	-	-	Electrical engineering, etc
-	-	-	-	-	Vehicles
-	-	-	-	-	Food, beverages, etc
-	-	-	-	-	Textiles, leather, etc
-	-	-	-	-	Paper, printing, etc
-	-	-	-	-	Other industries
-	-	-	-	-	Construction
-	-	-	-	-	Transport
-	-	-	-	-	Air .
-	-	-	-	-	Rail
-	-	-	-	-	Road
_	-	-	-	_	National navigation
_	_	_	_	_	Pipelines
93	25	_	-	449	Other
23	25 25	_	_	252	Domestic
51	-	-	-	104	Public administration
19	-	_	-	19	Commercial
19	-	-	-	74	Agriculture
-	-	-	-		Miscellaneous
	-	-	-	-	
	-	-	-	-	Non energy use

Commodity balances 2003 Renewables and waste

	VA/1				s of oil equivalent
	Wood waste	wood	bone, biomass, straw,	Sewage gas	Landfill gas
	waste		farm waste and SRC(3)	gas	
Supply			12000		
Production	196	204	460	165	1,088
Other sources	-	-	-	-	-
mports	-	-	110	-	-
Exports	-	-	-	-	-
Marine bunkers	-	-	-	-	-
Stock change (1)	-	-	-	-	_
Transfers	_	_	-	-	-
Total supply	196	204	570	165	1,088
Statistical difference (2)	-	-	-	-	
Total demand	196	204	570	165	1,088
Transformation	-		499	113	1,075
Electricity generation	_	_	499	113	1,075
Major power producers	_	_	292	-	1,070
Autogenerators			207	113	1,075
Heat generation	-	-	207	-	1,075
Petroleum refineries	-	-	-	-	-
	-	-	-	-	-
Coke manufacture	-	-	-	-	-
Blast furnaces	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-
Other	-	-	-	-	-
Energy industry use	-	-	-	-	-
Electricity generation	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-
Petroleum refineries	-	-	-	-	-
Coal extraction	-	-	-	-	-
Coke manufacture	-	-	-	-	-
Blast furnaces	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-
Pumped storage	-	-	-	-	-
Other	-	-	-	-	-
Losses	-	-	-	-	-
inal consumption	196	204	72	53	14
ndustry	196	-	-	-	14
Inclassified	196	_	-	-	14
ron and steel	-	_	-	-	-
Non-ferrous metals	_	_	_	_	_
Mineral products	_	_	- -	-	-
Chemicals	_	_	- -	_	- -
Mechanical engineering, etc	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-
	-	-	-	-	-
/ehicles	-	-	-	-	-
Food, beverages, etc	-	-	-	-	-
Textiles, leather, etc	-	-	-	-	-
Paper, printing, etc	-	-	-	-	-
Other industries	-	-	-	-	-
Construction	-	-	-	-	-
[ransport	-	-	-	-	-
ir	-	-	-	-	-
Rail	-	-	-	-	-
Road	-	-	-	-	-
National navigation	-	-	-	-	-
Pipelines	-	-	-	-	-
Other	-	204	72	53	-
Domestic	-	204	-	-	-
Public administration	-	-	-	53	-
Commercial	-	-	-	-	-
Agriculture	-	-	72	-	-
Miscellaneous	-	-	· -	-	_
Non energy use					

⁽¹⁾ Stock fall (+), stock rise (-).

⁽⁴⁾ Municipal solid waste, general industrial waste and hospital waste.

⁽⁵⁾ The amount of shoreline wave included is less than 0.05 ktoe.

⁽²⁾ Total supply minus total demand.(3) SRC is short rotation coppice and other energy crops.

Commodity balances 2003 (continued) Renewables and waste

Thousand tonnes of oil equivale	len	ıuival	eaui	oil	of	tonnes	Thousand
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					usand tonnes of oil equivale
Waste(4)	Geothermal	Hydro	Wind	Total	
and	and active		and wave	renewables	
tyres	solar heat		(5)		
			, ,		Supply
874	21	278	111	3,396	Production
-			• • • •	-	Other sources
				110	Imports
-	-	-	-		-
-	-	-	-	-	Exports
-	-	-	-	-	Marine bunkers
-	-	-	-	-	Stock change (1)
-	-	-	-	-	Transfers
874	21	278	111	3,506	Total supply
-	-	-	-	-	Statistical difference (2)
874	21	278	111	3,506	Total demand
723		278	111		Transformation
				2,796	
723	-	278	111	2,796	Electricity generation
89	-	221	-	602	Major power producers
634	-	57	111	2,194	Autogenerators
-	-	-	-	-	Heat generation
_	-	-	_	-	Petroleum refineries
_	_	-	_	_	Coke manufacture
	_	_	_		Blast furnaces
<u>-</u>	-	-	_	_	
-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	Other
-	-	-	-	-	Energy industry use
-	-	-	-	-	Electricity generation
-	-	-	-	-	Oil and gas extraction
_	_	_	_	-	Petroleum refineries
_	_	_	_	_	Coal extraction
				_	Coke manufacture
-	-	-	-	-	
-	-	-	-	-	Blast furnaces
-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	Pumped storage
-	-	-	-	-	Other
-	-	-	-	-	Losses
151	21	-	-	710	Final consumption
58	-	-	-	267	Industry
58				267	Unclassified
36	-	-	-	201	
-	-	-	-	-	Iron and steel
-	-	-	-	-	Non-ferrous metals
-	-	-	-	-	Mineral products
-	-	-	-	-	Chemicals
-	-	-	-	-	Mechanical engineering, etc
-	_	-	-	-	Electrical engineering, etc
_	_	_	_	_	Vehicles
_	_	_	_	_	
-	-	-	-	-	Food, beverages, etc
-	-	-	-	-	Textiles, leather, etc
-	-	-	-	-	Paper, printing, etc
-	-	-	-	-	Other industries
-	-	-	-	-	Construction
-	-	-	-	-	Transport
_	-	-	_	-	Air
_	_	_	_	_	Rail
_	_	_	_	-	Road
-	-	-	-	-	
-	-	-	-	-	National navigation
-	-	-	-	-	Pipelines
93	21	-	-	443	Other
23	21	-	-	247	Domestic
51	-	-	_	104	Public administration
	_	_	_	19	Commercial
19					
19	_	_	_	72	Δariculture
19 -	-	-	-	72	Agriculture
19 - -	- -	- -	-	72 - -	Agriculture Miscellaneous Non energy use

Commodity balances 2002

Renewables and waste

	Wood	Wood	Poultry litter, meat	Sewage	Landfill gas
	waste		and bone, straw,	gas	9
Supply			farm waste and SRC(3)		
Production	196	204	439	174	892
Other sources	-	-	-	-	-
Imports			_	_	_
Exports				_	
Marine bunkers	_	_		_	_
Stock change (1)	_	_		-	_
	-	-	-	-	-
Transfers Total cumply	400	204	- 420	17/	
Total supply	196	204	439	174	892
Statistical difference (2)	-	-	-	-	
Total demand	196	204	439	174	892
Transformation	-	-	368	121	879
Electricity generation	-	-	368	121	879
Major power producers	-	-	185	-	-
Autogenerators	-	-	183	121	879
Heat generation	-	-	-	-	-
Petroleum refineries	-	-	-	-	-
Coke manufacture	-	-	-	-	-
Blast furnaces	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-
Other	-	-	-	-	-
Energy industry use	-	-	-	-	-
Electricity generation	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-
Petroleum refineries	-	-	-	-	-
Coal extraction	-	-	-	-	-
Coke manufacture	-	-	-	-	-
Blast furnaces	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-
Pumped storage	-	-	-	-	-
Other	-	-	-	-	-
Losses	-	-	-	-	_
Final consumption	196	204	72	53	14
Industry	196	-	-	-	14
Unclassified	196	_	<u>-</u>	_	14
Iron and steel	-	_	<u>-</u>	_	-
Non-ferrous metals	_	-	_	-	_
Mineral products	_	_	_	_	_
Chemicals	_	-	_	_	-
Mechanical engineering, etc	_	_		_	_
Electrical engineering, etc	-	-		-	- -
	_	_		_	- -
Vehicles Food, beverages, etc	-	-	- -	-	- -
Textiles, leather, etc	-	- -	-	_	-
	-	-	-	-	-
Paper, printing, etc Other industries	-	-	-	-	-
Other industries Construction	-	-	-	-	-
	-	-	-	-	-
Transport	-	-	-	-	-
Air D-:	-	-	-	-	-
Rail	-	-	-	-	-
Road	-	-	-	-	-
National navigation	-	-	-	-	-
Pipelines	-	-	-	<u>-</u>	-
Other	-	204	72	53	-
Domestic	-	204	-	-	-
Public administration	-	-	-	53	-
Commercial	-	-	-	-	-
Agriculture	-	-	72	-	-
/ ignounare					

⁽¹⁾ Stock fall (+), stock rise (-).

⁽⁴⁾ Municipal solid waste, general industrial waste and hospital waste.

⁽²⁾ Total supply minus total demand.(3) SRC is short rotation coppice and other energy crops.

⁽⁵⁾ The amount of shoreline wave included is less than 0.05 ktoe.

Commodity balances 2002 (continued) Renewables and waste

Thousand	tonnes	of oil	equivalent

	Caatharmal	Llydes	Wind		isand tornies or on equivale
Waste(4)	Geothermal	Hydro	Wind	Total	
and	and active		and wave	renewables	
tyres	solar heat		(5)		
					Supply
832	17	412	108	3,275	Production
-	-	-	-	-	Other sources
-	-	-	-	-	Imports
_	_	_	_	_	Exports
	_	_	_	_	Marine bunkers
					Stock change (1)
-		-	_	<u>-</u>	
					Transfers
832	17	412	108	3,275	Total supply
-	-	-	-	-	Statistical difference (2)
832	17	412	108	3,275	Total demand
706	-	412	108	2,593	Transformation
706	-	412	108	2,593	Electricity generation
90	_	338	_	613	Major power producers
616	_	74	108	1,981	Autogenerators
-	_		-	1,001	Heat generation
_	_	_	_	_	Petroleum refineries
-	-	-	-	-	
-	•	-	-	-	Coke manufacture
-	-	-	-	-	Blast furnaces
-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	Other
-	-	-	-	-	Energy industry use
-	-	_	-	-	Electricity generation
_	_	_	_	_	Oil and gas extraction
_	_	_	_	_	Petroleum refineries
					Coal extraction
-	-	-	-	-	
-	-	-	-	-	Coke manufacture
-	-	-	-	-	Blast furnaces
-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	Pumped storage
-	-	-	-	-	Other
-	-	-	-	-	Losses
126	17	-	-	682	Final consumption
41	-	-		250	Industry
41	_	_	_	250	Unclassified
71	_	_	_	200	Iron and steel
-	-	-	-	-	
-	-	-	-	-	Non-ferrous metals
-	-	-	-	-	Mineral products
-	-				
_		-	-	-	Chemicals
_	-	-	-	-	
-	-	- - -	- - -	- - -	Mechanical engineering, etc
-	- - -	- - -	- - -	- - -	Mechanical engineering, etc Electrical engineering, etc
-	- - -	- - -	- - - -	- - -	Mechanical engineering, etc Electrical engineering, etc Vehicles
-	- - - -	- - - -	- - - -	- - - -	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc
	- - - -	- - - - -	- - - -	- - - -	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc
- - - -	- - - - -	-	- - - - - -	- - - - -	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc
- - - - -	- - - - - -	-	- - - - - -	- - - - - - -	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries
- - - - - -	- - - - - - -	-	- - - - - - -	- - - - - - -	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc
- - - - - - -	- - - - - - -	- - - - - - -	- - - - - - - -	- - - - - - - -	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries
- - - - - - - -	- - - - - - - -	-	- - - - - - - - -	-	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction
- - - - - - - -	- - - - - - - -		- - - - - - - - - -	-	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air
- - - - - - -	- - - - - - - - -		- - - - - - - - - -	- - - - - - - - - -	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail
- - - - - - - - - -	- - - - - - - - -	-	- - - - - - - - - -	- - - - - - - - - - -	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road
- - - - - - - - - - -	- - - - - - - - - -	-	- - - - - - - - - - -	- - - - - - - - - - - - - -	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation
- - - - - - - - - - -	- - - - - - - - -		- - - - - - - - - - - - - -		Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines
- - - - - - - - - - - - 85	- - - - - - - - - - - 17		- - - - - - - - - - - - - - - - - - -	432	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other
23	- - - - - - - - - 17		- - - - - - - - - - - - - - - - - - -	432 243	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic
			- - - - - - - - - - - - - - - - - - -	432	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other
23			- - - - - - - - - - - - - - - - - - -	432 243	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic
23 43			- - - - - - - - - - - - - - - - - - -	432 243 97 19	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial
23 43			- - - - - - - - - - - - - - - - - - -	432 243 97	Mechanical engineering, etc Electrical engineering, etc Vehicles Food, beverages, etc Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic Public administration

Commodity balances 2001

Renewables and waste

	\A/a1	\A/¹	Davider Burn		s of oil equivalent
	Wood	Wood	Poultry litter, meat	Sewage	Landfill gas
	waste		and bone, straw,	gas	
Supply			farm waste and SRC(3)		
Suppry Production	196	204	354	168	836
Production Other sources	196	204	354	108	830
	-	-	-	-	-
mports	-	-	-	-	-
Exports	-	-	-	-	-
Marine bunkers	-	-	-	-	-
Stock change (1)	-	-	-	-	-
Transfers	- 100	-	-	-	-
Total supply	196	204	354	168	836
Statistical difference (2) Fotal demand	196	204	354	168	836
Transformation	190	204	282	119	822
	-	-	282	119	822
Electricity generation Major power producers	-	-	123	-	022
	-	-			922
Autogenerators	-	-	159	119	822
Heat generation	-	-	-	-	-
Petroleum refineries	-	-	-	-	-
Coke manufacture	-	-	-	-	-
Blast furnaces	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-
Other	-		-	-	
Energy industry use	-	-	-	-	-
Electricity generation	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-
Petroleum refineries	-	-	-	-	-
Coal extraction	-	-	-	-	-
Coke manufacture	-	-	-	-	-
Blast furnaces	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-
Pumped storage	-	-	-	-	-
Other	-	-	-	-	-
Losses	-	-	-	-	-
Final consumption	196	204	72	49	14
Industry	196	-	-	-	14
Unclassified	196	-	-	-	14
ron and steel	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-
Mineral products	-	-	-	-	-
Chemicals	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-
/ehicles	-	-	-	-	-
Food, beverages, etc	-	-	-	-	-
Γextiles, leather, etc	-	-	-	-	-
Paper, printing, etc	-	-	-	-	-
Other industries	-	-	-	-	-
Construction	-	-	-	-	-
Fransport	-	-	-	=	=
Air -	-	-	-	-	-
Rail	-	-	-	-	-
Road	-	-	-	-	-
National navigation	-	-	-	-	-
Pipelines	-	-	-	-	-
Other	-	204	72	49	-
Domestic	-	204	-	-	-
Public administration	-	-	-	49	-
Commercial	-	-	-		-
Agriculture	-	_	72	_	-
Miscellaneous	_	_	-	_	_
พาเอออกเลกเออนอ	-	-		<u>-</u>	

⁽¹⁾ Stock fall (+), stock rise (-).(2) Total supply minus total demand.

⁽³⁾ SRC is short rotation coppice and other energy crops.

⁽⁴⁾ Municipal solid waste, general industrial waste and hospital waste. (5) The amount of shoreline wave included is less than 0.05 ktoe.

Commodity balances 2001 (continued) Renewables and waste

Thousand	tonnes	of oil	eguiva	lent
----------	--------	--------	--------	------

W1-(4)	O a a the a war a l	Herden	\A/:		usand tonnes of oil equiva
Waste(4)	Geothermal	Hydro	Wind	Total	
and	and active		and wave	renewables	
tyres	solar heat		(5)		
					Supply
760	14	349	83	2,965	Production
-	-	-	-	-	Other sources
_	-	_	_	_	Imports
_	_	_	_	_	Exports
_		_		_	Marine bunkers
-	-	-	_	_	Stock change (1)
-	-	-	-	-	
					Transfers
760	14	349	83	2,965	Total supply
-	-	-	-	-	Statistical difference (2)
760	14	349	83	2,965	Total demand
653	-	349	83	2,309	Transformation
653	-	349	83	2,309	Electricity generation
530	-	276	-	930	Major power producers
123	_	72	83	1,378	Autogenerators
123	-	12	03	1,370	
-	-	-	-		Heat generation
-	-	-	-	-	Petroleum refineries
-	-	-	-	-	Coke manufacture
-	-	-	-	-	Blast furnaces
-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	Other
_	_			_	Energy industry use
				_	
-	-	-	-	-	Electricity generation
-	•	-	-	-	Oil and gas extraction
-	-	-	-	-	Petroleum refineries
-	-	-	-	-	Coal extraction
-	-	-	-	-	Coke manufacture
-	-	-	-	-	Blast furnaces
_	_	_	_	_	Patent fuel manufacture
_	_	_	_	_	Pumped storage
				_	Other
-	-	-	-	-	
		-	-		Losses
107	14	-	-	656	Final consumption
34	-	-	-	243	Industry
34	-	-	-	243	Unclassified
-	-	-	-	-	Iron and steel
-	-	-	-	-	Non-ferrous metals
_	-	_	_	_	Mineral products
_	_	_	_	_	Chemicals
					Mechanical engineering, etc
-	•	-	-	-	
-	-	-	-	-	Electrical engineering, etc
-	-	-	-	-	Vehicles
-	-	-	-	-	Food, beverages, etc
-	-	-	-	-	Textiles, leather, etc
-	-	-	-	-	Paper, printing, etc
-	-	_	_	_	Other industries
_	_	_	_	_	Construction
					Transport
-	-	-	-	-	
-	-	-	-	-	Air
-	-	-	-	-	Rail
-	-	-	-	-	Road
-	-	-	-	-	National navigation
-	-	-	-	-	Pipelines
73	14	-	_	413	Other
	14	_	_	240	Domestic
		-	-	90	Public administration
23				ur)	EUDIIC ADMINISTRATION
23 40	-	-	-		
23	- -	-	-	11	Commercial
23 40	- - -	- -	- - -		Commercial Agriculture
23 40	- - - -	- - -	- - -	11	Commercial

Commodity balances 2000 Renewables and waste

	Weed	West		ousand tonnes of o	
	Wood waste	Wood	Poultry litter, meat and bone, straw, farm waste and SRC(3)	Sewage gas	Landfill gas
Supply					
Production	221	204	265	169	731
Other sources		-	-	-	-
mports	_	_	_	_	_
Exports	_	_	_	_	_
Marine bunkers	_	_	_	_	_
Stock change (1)	_	_	_	_	_
Fransfers	_	_	_	_	_
Total supply	221	204	265	169	731
Statistical difference (2)		-	- 205	- 109	731
					724
Total demand	221	204	265	169	731
Transformation -	-	-	193	120	718
Electricity generation	-	-	193	120	718
Major power producers	-	-	131	-	
Autogenerators	-	-	61	120	718
Heat generation	-	-	-	-	-
Petroleum refineries	-	-	-	-	-
Coke manufacture	-	-	-	-	-
Blast furnaces	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-
Other	-	-	-	-	<u> </u>
nergy industry use	-	-	-	-	-
Electricity generation	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-
Petroleum refineries	-	_	-	_	_
Coal extraction	-	-	-	-	_
Coke manufacture	_	_	-	_	_
Blast furnaces	_	_	-	_	_
Patent fuel manufacture	_	_	_	_	_
Pumped storage	_	_	_	_	_
Other	_	_	_	_	_
_osses	_	_	_	_	_
Final consumption	221	204	72	48	14
	221	-	-		14
ndustry Jnclassified	221	-	-	-	14
	221	-	-	-	14
ron and steel	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-
Mineral products	-	-	-	-	-
Chemicals	-	-	-	-	-
Mechanical engineering, etc	-	-	-	-	-
Electrical engineering, etc	-	-	-	-	-
/ehicles	-	-	-	-	-
ood, beverages, etc	-	-	-	-	-
extiles, leather, etc	-	-	-	-	-
Paper, printing, etc	-	-	-	-	-
Other industries	-	-	-	-	-
Construction	-	-	-	-	-
ransport	-	-	-	-	-
Air	-	-	-	-	-
Rail	-	-	-	-	-
Road	-	-	-	-	-
National navigation	-	-	-	-	-
Pipelines	-	-	-	-	-
Other	-	204	72	48	-
Domestic	_	204	-	-	_
Public administration	_		-	48	-
Commercial	_	-	_	-	_
Agriculture	_	-	72	-	_
Miscellaneous	_	_	-	-	_
nioconal icous	-		<u> </u>	<u>-</u>	

⁽⁴⁾ Municipal solid waste, general industrial waste and hospital waste.

Stock fall (+), stock rise (-).
 Total supply minus total demand.
 SRC is short rotation coppice and other energy crops.

Commodity balances 2000 (continued) Renewables and waste

Thousand	tonnes of	٥il	equivalent
HIIOUSanu	tollies of	OII	Equivalent

					usand tonnes of oil equivaler
Waste(4)	Geothermal	Hydro	Wind	Total	
and	& active			renewables	
tyres	solar heat				
					Supply
704	12	437	81	2,825	Production
704	12	407	01	2,020	Other sources
•	-	-	-	-	
-	-	-	-	-	Imports
-	-	-	-	-	Exports
-	-	-	-	-	Marine bunkers
-	-	-	-	-	Stock change (1)
-	-	-	-	-	Transfers
704	12	437	81	2,825	Total supply
		-	-	-,	Statistical difference (2)
704	12	437	81	2,825	Total demand
603	-	437	81	2,153	Transformation
603	-	437	81	2,153	Electricity generation
108	-	372	-	612	Major power producers
495	-	65	81	1,541	Autogenerators
_	_	_	_	· -	Heat generation
_	_	_	_	_	Petroleum refineries
					Coke manufacture
•	-	-	-	-	
-	-	-	-	-	Blast furnaces
-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	Other
-	-	-	-	-	Energy industry use
_	-	_	_	_	Electricity generation
_	_	_	_	_	Oil and gas extraction
	-	-	_	-	Petroleum refineries
•	-	-	-	-	
-	-	-	-	-	Coal extraction
-	-	-	-	-	Coke manufacture
-	-	-	-	-	Blast furnaces
-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	Pumped storage
_	_	_	_	_	Other
_	_	_	_	_	Losses
100					
100	12	-	-	672	Final consumption
30	-	-	-	264	Industry
30	-	-	-	264	Unclassified
-	-	-	-	-	Iron and steel
-	-	-	-	-	Non-ferrous metals
-	-	_	-	-	Mineral products
_	-	-	_	_	Chemicals
_	-	-	_	•	Mechanical engineering, etc
-	•	-	-	-	
-	-	-	-	-	Electrical engineering, etc
-	-	-	-	-	Vehicles
-	-	-	-	-	Food, beverages, etc
-	-	-	-	-	Textiles, leather, etc
-	-	-	-	-	Paper, printing, etc
_	_	_	_	_	Other industries
					Construction
-	-	-	-	-	
-	-	-	-	-	Transport
-	-	-	-	-	Air
-	-	-	-	-	Rail
-	-	-	-	-	Road
-	-	-	-	_	National navigation
_	-	-	_	_	Pipelines
- 71	12	-	-	408	Other
		-	-		
21	12	-	-	236	Domestic
40	-	-	-	88	Public administration
11	-	-	-	11	Commercial
-	-	-	-	72	Agriculture
-	-	-	-	-	Miscellaneous
			-	_	Non energy use

Commodity balances 1999

Renewables and waste

Renewables and was	,,,,			Thousand tonnes of oil equivalent		
	Wood	Wood	Poultry litter, meat	Sewage	Landfill	
	waste		and bone, straw,	gas	gas	
Supply			farm waste and SRC(3)			
	200	204	220	100	570	
Production	368	204	229	189	572	
Other sources	-	-	-	-	-	
Imports	-	-	-	-	-	
Exports	-	-	-	-	-	
Marine bunkers	-	-	-	-	-	
Stock change (1)	-	-	-	-	-	
Transfers			-			
Total supply	368	204	229	189	572	
Statistical difference (2)	-	-	-	-		
Total demand	368	204	229	189	572	
Transformation	104	-	157	135	558	
Electricity generation	-	-	157	135	558	
Major power producers	-	-	141	-	-	
Autogenerators	-	-	17	135	558	
Heat generation	104	-	-	-	-	
Petroleum refineries	-	-	-	-	-	
Coke manufacture	-	-	-	-	-	
Blast furnaces	-	-	-	-	-	
Patent fuel manufacture	-	-	-	-	-	
Other	-	-	-	-	-	
Energy industry use	-	-	-	-	-	
Electricity generation	-	-	-	-	-	
Oil and gas extraction	-	-	-	-	-	
Petroleum refineries	-	-	-	-	-	
Coal extraction	-	-	-	-	-	
Coke manufacture	-	-	-	-	-	
Blast furnaces	-	-	-	-	-	
Patent fuel manufacture	-	-	-	-	-	
Pumped storage	-	-	-	-	-	
Other	-	-	-	-	-	
Losses	-	-	-	-	-	
Final consumption	264	204	72	54	14	
Industry	264		-	-	14	
Unclassified	264	_	-	_	14	
Iron and steel		_	-	_	-	
Non-ferrous metals	_	_	-	_	-	
Mineral products	_	_	_	_	_	
Chemicals	_	_	_	_	_	
Mechanical engineering, etc	_	_	_	_	_	
Electrical engineering, etc	_	_	_	_	_	
Vehicles Food, beverages, etc	_	_		_	_	
Textiles, leather, etc						
Paper, printing, etc	-	-	-	-	-	
Other industries	-	-	-	-	-	
Construction	-	-	-	-	-	
	-	-	-	•	-	
Transport	-	-	-	-	-	
Air	-	-	-	-	-	
Rail	-	-	-	-	-	
Road	-	-	-	-	-	
National navigation	-	-	-	-	-	
Pipelines	-	-	<u>-</u>	- 	-	
Other	-	204	72	54	-	
	-	204	-	-	-	
Public administration	-	-	-	54	-	
Commercial	-	-	-	-	-	
Agriculture	-	-	72	-	-	
Miscellaneous	-	-	-	-		
Non energy use	-	-	-	-	-	

⁽⁴⁾ Municipal solid waste, general industrial waste and hospital waste.

⁽¹⁾ Stock fall (+), stock rise (-).
(2) Total supply minus total demand.
(3) SRC is short rotation coppice and other energy crops.

Commodity balances 1999 (continued) Renewables and waste

Thousand 1	tonnes	of oil	equivalent
------------	--------	--------	------------

Waste(4)	Geothermal	Hydro	Wind	Total	
and	& active	riyaro	Willia	renewables	
tyres	solar heat			Tellewables	
tyros	Join Hour				Supply
653	10	459	73	2,757	Production
000	10	433	73	2,757	Other sources
-	-	•	-	-	
-	-	-	-	-	Imports
-	-	-	-	-	Exports
-	-	-	-	-	Marine bunkers
-	-	-	-	-	Stock change (1)
-	-	-	-	-	Transfers
653	10	459	73	2,757	Total supply
-	-	-	-	-	Statistical difference (2)
653	10	459	73	2,757	Total demand
584	-	459	73	2,069	Transformation
584	-	459	73	1,965	Electricity generation
119	-	381	-	640	Major power producers
465	_	78	73	1,325	Autogenerators
	_	-		104	Heat generation
	_	_	_	-	Petroleum refineries
-	-	-	-	-	Coke manufacture
-	-	-	-	-	
-	-	-	-	-	Blast furnaces
-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	Other
-	-	-	-	-	Energy industry use
-	-	-	-	-	Electricity generation
-	-	-	-	-	Oil and gas extraction
_	-	-	_	_	Petroleum refineries
_	_	-	_	_	Coal extraction
_	_	_	_	_	Coke manufacture
_	_	_	_	_	Blast furnaces
-	-	-	-	-	
-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	Pumped storage
-	-	-	-	-	Other
	-	-	-		Losses
70	10	-	-	687	Final consumption
6	-	-	-	283	Industry
6	-	-	-	283	Unclassified
-	-	-	-	-	Iron and steel
-	-	-	-	-	Non-ferrous metals
-	-	-	-	-	Mineral products
-	-	-	-	-	Chemicals
-	_	-	-	-	Mechanical engineering, etc
_	_	_	_	_	Electrical engineering, etc
			_	_	Vehicles
_	_				
-	-	-			Food haverages ata
-	-	-	-	-	Food, beverages, etc
- - -	- - -	- -	-		Textiles, leather, etc
	- - -	- - -	- - -	- - -	Textiles, leather, etc Paper, printing, etc
- - - -	- - - -	- - - -	- - -	- - -	Textiles, leather, etc Paper, printing, etc Other industries
- - - - -		- - - - -	- - - -	- - - -	Textiles, leather, etc Paper, printing, etc Other industries Construction
- - - - - -		-	- - - -	- - - - -	Textiles, leather, etc Paper, printing, etc Other industries
- - - - - -	: : : : :	- - - - - -	- - - - -	- - - - -	Textiles, leather, etc Paper, printing, etc Other industries Construction
- - - - - - -		- - - - - - -	: : : : :	- - - - - -	Textiles, leather, etc Paper, printing, etc Other industries Construction Transport
- - - - - - - -		- - - - - - - -	: : : : :	- - - - - -	Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail
- - - - - - - -			- - - - - - - -		Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road
- - - - - - - - -	- - - - - - - - -	-	- - - - - - -	-	Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation
	-	-	- - - - - - - - -	- -	Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines
- - - - - - - - - - - - -	- - - - - - - - - 10	-	- - - - - - - - - -	- - - 404	Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other
- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - 10	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - -	- -	Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic
- - - - - - - - - - - -		- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - 404	Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic Public administration
- - - - - - - - - - 64		- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - 404 	Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial
- - - - - - - - - 64		- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	404 	Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic Public administration
- - - - - - - - - - - - - - -				- - - 404 	Textiles, leather, etc Paper, printing, etc Other industries Construction Transport Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial

Commodity balances 1998 Renewables and waste

Renewables and was	Thousand tonnes o					
	Wood	Wood	Poultry litter, meat	Sewage	Landfill	
	waste		and bone, straw,	gas	gas	
			farm waste and SRC(3)			
Supply						
Production	437	204	148	181	402	
Other sources	-	-	-	-	-	
Imports	-	-	-	-	-	
Exports	-	-	-	-	-	
Marine bunkers	-	-	-	-	-	
Stock change (1)	-	-	-	-	-	
Transfers	-	-	<u> </u>	-	-	
Total supply	437	204	148	181	402	
Statistical difference (2)	-	-	-	-	-	
Total demand	437	204	148	181	402	
Transformation	-	-	76	127	389	
Electricity generation	-	-	76	127	389	
Major power producers	-	-	76	-	-	
Autogenerators	-	-	-	127	389	
Petroleum refineries	-	-	-	-	-	
Coke manufacture	-	-	-	-	-	
Blast furnaces	-	-	-	-	-	
Patent fuel manufacture	-	-	-	-	-	
Other	-	-	-	-	-	
Energy industry use	-	-	-	-	-	
Electricity generation	-	-	-	-	-	
Oil and gas extraction	-	-	-	-	-	
Petroleum refineries	-	-	-	-	-	
Coal extraction	-	-	-	-	-	
Coke manufacture	-	-	-	-	-	
Blast furnaces	-	-	-	-	-	
Patent fuel manufacture	-	-	-	-	-	
Pumped storage	-	-	-	-	-	
Other	-	-	-	-	-	
Losses	-	-	-	-	-	
Final consumption	437	204	72	54	14	
Industry	437	-	-	-	14	
Unclassified	437	-	-	-	14	
Iron and steel	-	-	-	-	-	
Non-ferrous metals	-	-	-	-	-	
Mineral products	-	-	-	-	-	
Chemicals	-	-	-	-	-	
Mechanical engineering, etc	-	-	-	-	-	
Electrical engineering, etc	-	-	-	-	-	
Vehicles	-	-	-	-	-	
Food, beverages, etc	-	-	-	-	-	
Textiles, leather, etc	-	-	-	-	-	
Paper, printing, etc	-	-	-	-	-	
Other industries	-	-	-	-	-	
Construction	-	-	-	-	-	
Transport	-	-	-	-	-	
Air	-	-	-	-	-	
Rail	-	-	-	-	-	
Road	-	-	-	-	-	
National navigation	-	-	-	-	-	
Pipelines	-	-	-	-	-	
Other	-	204	72	54	-	
Domestic Public administration	-	204	-	-	-	
Public administration	-	-	-	54	-	
Commercial	-	-	-	-	-	
Agriculture	-	-	72	-	-	
Miscellaneous	-	-	<u> </u>	-		
Non energy use	-	-	-	-	-	

Stock fall (+), stock rise (-).
 Total supply minus total demand.
 SRC is short rotation coppice and other energy crops.
 Municipal solid waste, general industrial waste and hospital waste.

Commodity balances 1998 (continued) Renewables and waste

Waste(4)	Geothermal	Hydro	Wind	Total	
and	& active	,		renewables	
tyres	solar heat			Tonomable	
					Supply
694	10	440	75	2,593	Production
-	-	-	-	-	Other sources
-	-	-	-	-	Imports
-	-	-	-	-	Exports
-	-	-	-	-	Marine bunkers
-	-	-	-	-	Stock change (1)
-	-	-	-	-	Transfers
694	10	440	75	2,593	Total supply
-	-	-	-	-	Statistical difference (2)
694	10	440	75	2,593	Total demand
620	-	440	75	1,727	Transformation
620	_	440	75	1,727	Electricity generation
70	_	364	-	511	Major power producers
550	_	76	75	1,216	Autogenerators
-	_	-	-	1,210	Petroleum refineries
_			_	_	Coke manufacture
-	-	•	-	-	Blast furnaces
-	-	-	-	-	Patent fuel manufacture
-	•	-	-	-	
-	•	-	-	-	Other
-	-	-	-	-	Energy industry use
-	-	-	-	-	Electricity generation
-	-	-	-	-	Oil and gas extraction
-	-	-	-	-	Petroleum refineries
-	-	-	-	-	Coal extraction
-	-	-	-	-	Coke manufacture
-	-	-	-	-	Blast furnaces
-	-	-	-	-	Patent fuel manufacture
-	-	-	-	-	Pumped storage
-	-	-	-	-	Other
-	-	-	-	-	Losses
74	10	-	-	866	Final consumption
10	-	-	-	461	Industry
10	-	-	-	461	Unclassified
-	-	-	-	-	Iron and steel
-	-	-	-	-	Non-ferrous metals
-	-	-	-	-	Mineral products
-	-	-	-	-	Chemicals
-	-	-	-	-	Mechanical engineering, etc
-	-	-	-	-	Electrical engineering, etc
-	-	-	-	-	Vehicles
-	-	-	-	-	Food, beverages, etc
-	_	-	-	-	Textiles, leather, etc
-	-	-	_	_	Paper, printing, etc
-	_	-	_	_	Other industries
_	_	_	_	_	Construction
_	_	_	_	_	Transport
_	_	_	_	_	Air
-	-	-	-	-	Rail
-	-	-	-		
-	-	-	-	-	Road
-	-	-	-	-	National navigation
-	-	-	-	-	Pipelines
64	10	-	-	404	Other
		-	-		Domestic
		-	-		Public administration
	-	-	-		Commercial
-	-	-	-	72	Agriculture
<u> </u>				••	Miscellaneous

Annex E

Energy and the environment

Carbon dioxide emissions

E.1 Provisional 2012 results for UK Greenhouse Gas emissions and progress towards targets were published on 28 March 2013. A copy of the statistical press release and associated data tables are available on the DECC section of the gov.uk website at:

www.gov.uk/government/publications/provisional-uk-emissions-estimates

Oil pollution, oil spills and gas flaring

- E.2 The amounts of oil spilled around the coasts of the United Kingdom and offshore (North Sea) are small in relation to total oil production, with the amounts discharged on drill cuttings, and with produced water generally much larger than from offshore installation spills. The total amount of oil spilled offshore during 2012 was 40 tonnes.
- E.3 The number of oil spills recorded dropped from 275 in 2002 to 248 in 2012. Of those reported in 2012, 240 were for spills of less than 1 tonne.
- E.4 The Offshore Petroleum Activities (Oil Pollution Prevention and Control) Regulations 2005 (OPPC) came into effect in August 2005. Under OPPC installations a granted a permit for activities discharging oil-contaminated water to sea, but the oil content must not exceed 30 milligrams per litre. The average content of oil in produced water for 2012, for the UKCS as a whole, was 14.6 milligrams per litre compared to 14.3 milligrams per litre in the previous year.
- E.5 Under the terms of petroleum production licences, gas may be flared only with the consent of the Secretary of State. Flaring at offshore installations in 2012 was estimated to be 2.57 million cubic metres of gas per day, 13 per cent lower than in 2011 and broadly in line with the fall in production. In 2012 gas flared was equivalent to about 2 per cent of UK production.

Data sources

- E.6 Figures for the total number of oil spills reported are collected by the Advisory Committee on Protection of the Sea Annual Surveys of Oil Pollution around the Coasts of the United Kingdom.
- E.7 Further information on oil spills and discharges is available on the DECC oil and gas website at www.gov.uk/oil-and-gas-uk-field-data.

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Annex F

United Kingdom oil and gas resources

Introduction

- F.1 This section provides background information on the United Kingdom's crude oil, natural gas liquid and natural gas production, disposal and operations. This information is intended as a supplement to that in the commodity balances included in Chapter 3. Most of the data (including those on gas) are obtained from the Department of Energy and Climate Change's Petroleum Production Reporting System (PPRS). Further information can be obtained from DECC's oil and gas website at www.gov.uk/search?q=oil+and+gas#detailed-results.
- F.2 The annual statistics relate to calendar years, or the ends of calendar years, and the data cover the United Kingdom Continental Shelf [UKCS] (both onshore and offshore). Annual data for production, imports and exports of crude oil during the period 1970 to 2012 are given in Chapter 3, long term trends, Table 3.1.1 (www.gov.uk/government/organisations/department-of-energy-climate-change/series/oil-statistics). The equivalent for natural gas production is Chapter 4, long term trends, Table 4.1.1

(www.gov.uk/government/uploads/system/uploads/attachment_data/file/65807/dukes4_1_1.xls).

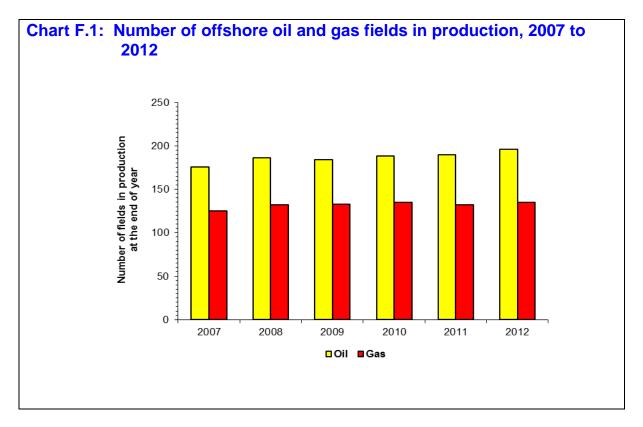
Oil and gas reserves

F.3 Information on oil and gas reserves can be found on DECC's oil and gas website in the statistics section at www.gov.uk/oil-and-gas-uk-field-data.

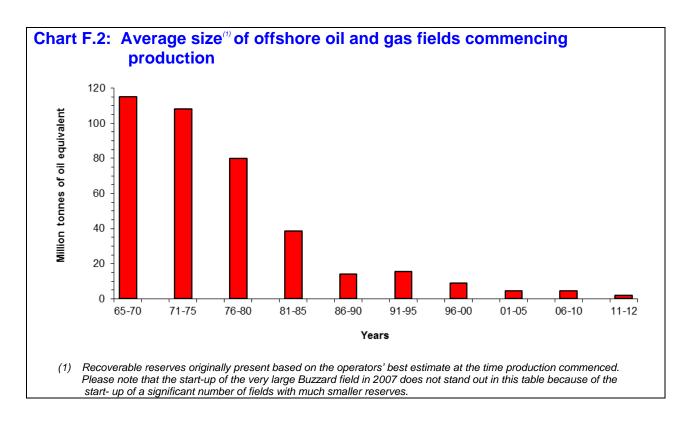
Offshore oil and gas fields and associated facilities

F.4 Table F.A below shows that the number of offshore oil fields in production and under development rose from 188 at the end of 2007 to 219 at the end of 2012. For offshore gas fields the equivalent increase between the end of 2007 and 2012 was from 129 to 143. Most oil fields also produce gas: these are not double-counted. The increases in fields in production are shown in Chart F.1 (offshore fields in production). Throughout the period since 2007 there have been 5 onshore oil terminals. In 2007 there were 5 onshore associated sub-gas terminals and 9 other (dry) sub-gas terminals. However, during 2010 the three (dry) sub terminals at Easington were combined into a single terminal. In 2011 two (dry) sub-gas terminals at Bacton were combined into a single sub-gas terminal. While there are significant numbers of oil and gas fields onshore, total onshore production is less than 2 per cent of the UK total.

Table F.A: Offshore oil and ga	as fields	and fa	cilities			
_	2007	2008	2009	2010	2011	2012
Offshore oil fields in production	175	186	184	188	190	196
Offshore oil fields under development	13	9	6	10	14	23
Offshore gas fields in production	125	132	133	135	132	135
Offshore gas fields under development	4	3	4	2	5	8



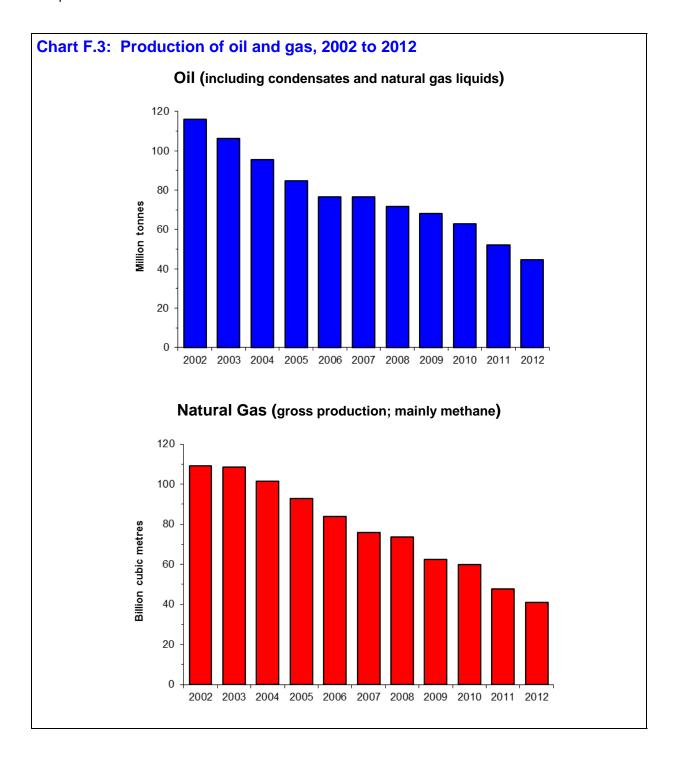
The average size of fields commencing production in the years 2011 and 2012 was 1.9 million tonnes of oil equivalent (see Chart F.2). The general fall in average field size reflects a decline in the size of fields discovered compared with the early period of the development of the North Sea and the effect of improved technology providing cost-effective means of extracting oil and gas from smaller fields and hitherto unpromising locations. The industry continues to face a range of challenges in order to realise fully the North Sea's potential. Alongside other initiatives, government and industry are tackling these challenges via the joint Government and Industry task force, PILOT.



Production of oil and gas (Table F.1, F.2 and F.3)

F.6 These tables show production of crude oil, natural gas (mainly methane) and natural gas liquids. Before 2001, oil and gas production were reported based on field level data on well-head production, but aggregate figures are now based on terminal receipts following the introduction in January 2001 of a simplified Petroleum Production Reporting System and subsequent in-house changes to the data collection system. These new data are more accurate measures of production because the oil that leaves a terminal has been stabilised (that is any water, natural gas liquids or other organic compounds have been removed from the crude oil). Gross gas production includes gas used at terminals but excludes any flaring or venting at the terminals (not available before 2001). Except for associated gas fields, field level data can still be found at DECC's oil and gas website at: www.gov.uk/oil-and-gas-uk-field-data.

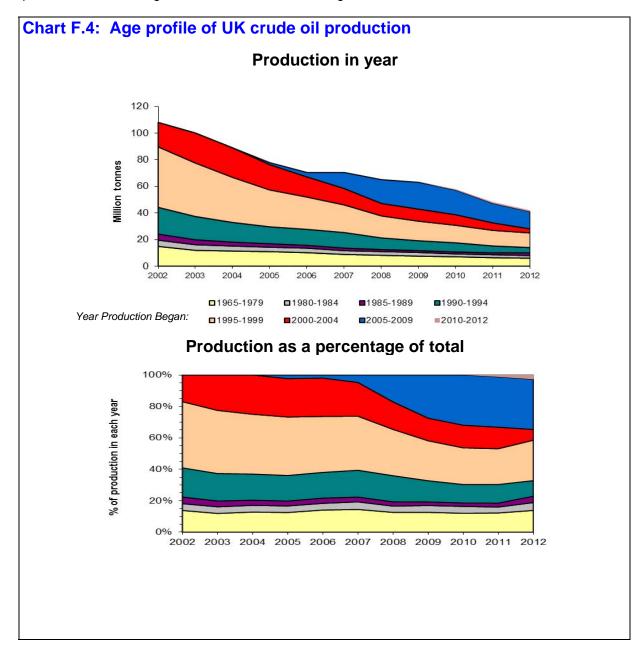
F.7 Chart F.3 shows the recent trend in total oil production from 2002 to 2012. After reaching a record level of 137 million tonnes in 1999, production has generally declined each year to 45 million tonnes in 2012, 33 per cent of the peak level. Gross natural gas production (mainly methane) peaked in 2000 at 115 billion cubic metres but has declined to 42 billion cubic metres in 2012, 37 per cent of the peak level.



Production of crude oil

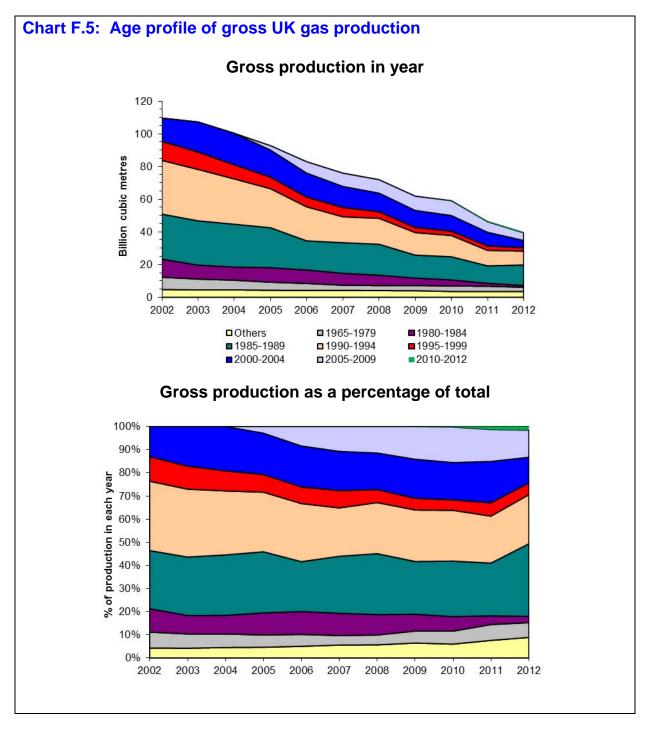
F.8 Production from established oil fields has been dropping in recent years. This is illustrated in Chart F.4 below, where oil production in each year from 2002 to 2012 is broken down by the age group of the fields in production during that year. Two charts are shown, the first with the actual amounts of crude oil produced during the year for each age group and the second with the same data transformed to show what percentage of total production each year comes from each field age group. The data used to produce these charts can be found on DECC's oil and gas website at www.gov.uk/oil-and-gas-uk-field-data.

F.9 It can be seen from the production chart that during the 2000s the amount of oil produced from older established fields was in general decline. It is also noticeable that the decline for post 1994 developments is greater than for earlier developments. This is because later technology meant crude oil could be extracted at a relatively greater rate leading to a quicker exhaustion of the reserves. In 2012, these newer (post 1994) fields accounted for 67 per cent of the UK's oil production. The charts also clearly reflect the start up and prolonged plateau of the very large Buzzard field at the beginning of 2007 and, for fields that commenced production in the period 2000 to 2004, the suspension of production from the Elgin/Franklin area because of a gas leak in March 2012.



Production of gas

F.10 The charts below present gross gas production reported at field/system level and include gas used for drilling, production and pumping operations, but exclude gas flared, vented and re-injected. The data used to produce these charts can be found on DECC's oil and gas website at www.gov.uk/oil-and-gas-uk-field-data.

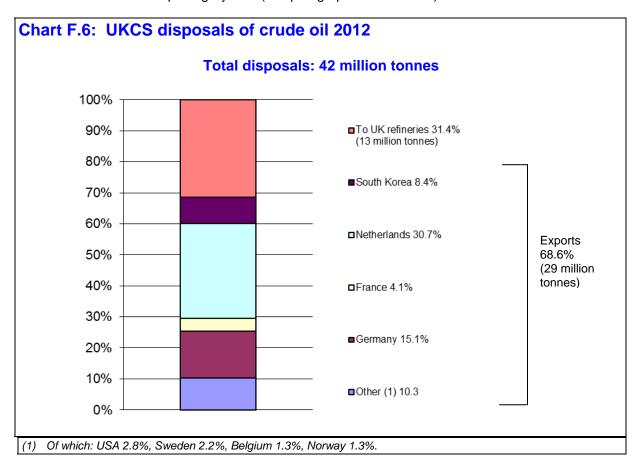


F.11 Gross gas production reached a peak in 2000. Since then production has fallen to 37 per cent of peak production (Chart F.5). As mentioned above (in paragraph F.8) for older oil fields, production from the older gas fields that were discovered in the Southern North Sea has reduced in recent years as the reserves originally present in the fields become depleted. Chart F.5 illustrates this. The apparent extent of the decline in gas production from older fields is not as significant as that shown for oil fields (Chart F.4). This is partly because most associated gas production is not back allocated to individual fields and, therefore, the associated gas is based on terminal start date rather than field start date. However, it should be noted, as mentioned above (in paragraph F.9), for fields

than commenced production in 2000 to 2004, the impact of the suspension of production from the Elgin/Franklin area in March 2012 because of a gas leak is clearly reflected.

Disposals of crude oil (Table F.4)

F.12 Table F.4 and Chart F.6 show the destination of crude oil split between amounts to UK refineries and exports (see technical notes, paragraphs F.14 to F.21) by country of destination (from which it may be transhipped elsewhere). The figures are obtained from returns made to the Department of Energy and Climate Change by operators of oil fields and onshore terminals under the Petroleum Production Reporting System (see paragraphs F.16 to F.18).



F.13 The exports figures in Table F.4 may differ from those compiled by the United Kingdom Petroleum Industry Association (UKPIA) and published in Chapter 3. UKPIA figures also include reexports. These are products that have been imported into the UK and stored before being exported from the UK, and were never part of UK production.

Technical notes and definitions

Petroleum Production Reporting System

- F.14 Licensees operating on the UK Continental Shelf are required to make monthly returns on their production of hydrocarbons to the Department of Energy and Climate Change (DECC). DECC compiles this information in the Petroleum Production Reporting System (PPRS). The PPRS is used to report flows, stocks and uses of hydrocarbon from the well-head through to final disposals from a pipeline or terminal and is the major source of the information presented in this chapter.
- F.15 Returns are collected covering field and terminal data compiled by relevant reporting units. Each type of return is provided by a single operator, but usually covers the production of a number of companies, since frequently operations carried out on the Continental Shelf involve several companies working together in joint ventures.
- F.16 Every production system has one or more sets of certified meters to measure oil, gas or condensate production. The flows measured by the meters are used to check the consistency of returns and are therefore used to assure the accuracy of the PPRS.

Exports

- F.17 The term exports used in Table F.4 refers to figures recorded by producers of oil and gas for their exports. These figures may differ from the figures for exports compiled by HM Revenue and Customs (HMRC) and given in Annex G. In addition, HMRC now differentiate between EU and non-EU trade by using the term dispatches for trade going to other EU countries, with exports retained for trade going to non-EU countries. The differences can occur between results from the two sources of information because, whilst the trader's figures are a record of actual shipments in the period, for non-EU trade HMRC figures show the trade as declared by exporters on documents received during the period stated.
- F.18 In addition, trade in oil frequently involves a "string" of transactions, which can result in the actual destination of the exports changing several times even after the goods have been dispatched. As such, differences can arise between the final country of destination of the exports as recorded by the producers themselves and in the HMRC figures. The HMRC figures also include re-exports. These are products that might originally have been imported into the UK and stored before being exported back out of the UK, as opposed to actually having been produced in the UK.
- F.19 In editions of the Digest before 1997, these exports were called "shipments" in an attempt to highlight their difference from the other sources of trade data.

Units of measurement for gas

F.20 The basic unit of measurement for quantities of flows and stocks is volume in cubic metres at a temperature of 15°C and a pressure of 1.01325 bar.

Monthly and Quarterly data

F.21 Monthly and quarterly data on the production of crude oil and natural gas from the UKCS, along with details of imports and exports of oil, oil products and gas, are available. This information can be obtained free of charge by following the links given at the Energy Statistics section of the DECC website at:

www.gov.uk/government/organisations/department-of-energy-climate-change/about/statistics.

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F.1 Crude oil and Natural Gas Liquids production

																	T	housand tonnes
CRUDE OIL		Total to end 1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Total to end 2012
Offshore production:	Offshore loaded (1)	379,268	30,312	34,169	37,317	31,268	29,976	28,315	25,481	21,977	18,875	18,679	16,007	15,753	15,327	13,141	10,769	726,634
Terminal receipts:	Flotta (2)	258,529	10,061	9,564	8,251	6,677	6,464	5,452	4,967	4,287	3,371	3,369	3,235	3,067	2,834	2,068	1,519	333,714
	Flotta West (3)	232	3,753	4,330	4,577	3,723	5,281	4,010	3,535	2,987	2,912	2,390	26	0	0	0	0	37,756
	Forties (4)	552,146	38,352	41,565	35,177	32,806	34,059	30,726	27,715	24,996	21,985	27,168	29,213	28,653	25,261	20,192	17,302	987,315
	Nigg Bay (5)	19,840	365	194	137	62	385	293	292	192	106	98	54	338	449	187	142	23,134
	Norpipe (6)	8,155	7,619	7,819	6,867	5,870	5,989	5,984	5,077	4,600	5,076	3,941	3,729	3,501	3,054	3,074	2,267	82,623
	Sullom Voe (7)	821,773	28,805	26,658	22,107	25,059	22,603	20,857	18,508	16,491	15,962	13,441	11,985	10,328	10,180	9,231	9,184	1,083,172
Total terminal receipts	s:	1,660,675	88,955	90,130	77,116	74,197	74,781	67,322	60,094	53,553	49,412	50,407	48,242	45,886	41,778	34,752	30,413	2,547,714
Onshore production:	Rail, road, terminals (8)	38,374	5,161	4,285	3,247	2,921	2,673	2,198	1,941	1,648	1,379	1,271	1,248	1,181	941	678	870	70,016
Other:	Extended well tests (9)	693	-	-	202	-	-	-	-	-	-	-	-	-	-	-		895
Total crude oil produc	ction:	2,079,010	124,428	128,584	117,882	108,386	107,430	97,835	87,516	77,178	69,666	70,357	65,497	62,820	58,047	48,571	42,052	3,345,258
Total natural gas liqu	uids production:	96,155	8,205	8,515	8,363	8,292	8,514	8,238	7,858	7,543	6,913	6,218	6,168	5,378	4,915	3,401	2,508	197,185
Total crude oil and N	IGL production:	2,175,165	132,633	137,099	126,245	116,678	115,944	106,073	95,374	84,721	76,579	76,575	71,665	68,198	62,962	51,972	44,560	3,542,443

- (1) Production from: Alba, Angus, Ardmore, Banff, Beryl, Bittern, Blackbird, Blake, Boa (UK), Buckland, Captain, Chestnut, Clapham, Cook, Curlew, Curlew C, Don South West (from April 2009 to February 2010 see footnote (7)), Donan (Maersk), Douglas, Douglas West, Ettrick, Fergus, Fife, Flora, Foinaven, Gryphon, Guillemot A, NW and W, Harding, Kyle, Leadon, Lennox, Lochranza, Loirston, Maclure, Ness, Nevis, Pict, Pierce, Ross, Saxon, Shelley, Skene, Statfjord (UK), Teal, Teal South, Tullich, West Don (from June 2009 to February 2010 see footnote (7)).
- (2) Production from: Chanter, Claymore, Duart, Galley, Hamish, Highlander, Iona, Ivanhoe, MacCulloch, Petronella, Piper, Renee, Rob Roy, Rubie, Saltire, Scapa, Tartan, Tweedsmuir, Tweedsmuit South...
- (3) Production from: Foinaven. The Flotta contract to process Foinaven crude expired in 2008. Direct disposals from Foinaven are included in the offshore loaded figure.
- (4) Production from: Andrew, Arbroath, Arkwright, Bacchus, Balmoral, Bardolino, Beauly, Beinn, Birch, Brae Area, Braemar, Brechin, Brenda, Brimmond, Britannia, Brodgar, Bruce, Buchan, Burghley, Buzzard, Caledonia, Callanish, Causeway, Cyrus, Drake, Egret, Elgin, Enock (UK), Erskine, Everest, Farragon, Fleming, Forties, Franklin, Gadwall, Glamis, Glenelg, Goosander, Grouse, Hannay, Hawkins, Heron, Howe, Keith, Kingfisher, Kittiwake, Larch, Lomond, Machar, Madoes, Mallard, Maria, Marmock, Maule, Merganser, Miller, Mirren, Monan, Montrose, Mungo, Nelson, Nicol, Rhum, Scoter, Scott, Seymour, Shearwater, Skua, Starling, Stirling, Sycamore, Telford, Thelma, Tiffany, Toni, Wood.
- (5) Production from: Athena, Beatrice, Jacky, Lybster.
- (6) Production from: Affleck, Auk, Auk North, Blane (UK), Clyde, Fulmar, Gannet A- G, Halley, Jade, James, Janice, Joanne, Judy, Leven, Medwin, Nethan, Orion.
- (7) Production from: Alwyn North, Brent, Broom, Causeway, Claire, Columba B/D, Columba E, Conrie, Cormorant (North and South), Deveron, Don, Don South West (from March 2010 see footnote (1)) from Dunbar, Dunlin, South West, Eider, Ellon, Falcon, Forvie, Grant, Heather, Hudson, Hutton, Hutton NW, Islay, Jura, Kestrel, Loyal, Lyell, Magnus, Magnus, South, Merlin, Murchison (UK), Ninian, Osprey, Otter, Pelican, Penguin, Playfair, Schiehallion, Strathspey, Tern, Thistle, West Don (from March 2010 see footnote (1)).
- (8) Production from the Hamble and Holybourne terminals, plus other onshore oil fields.
- (9) Extended well tests other than from established fields.

F.2 Gas production to 2012

																Mill	lion cubic metres
		Total to end 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Total to end 2012
Offshore dry gas:																	
Terminal receipts	Bacton Perenco (1)	209,317	5,431	5,885	5,179	4,493	3,873	3,336	2,553	2,423	2,342	2,375	2,032	2,003	2,221	2,280	255,743
and production	Bacton ENI Hewett (2)	151,047	7,157	6,655	5,140	3,914	2,937	2,136	2,916	2,901	2,595	1,597	1,516	946	509	0	191,965
from direct export	Bacton Shell (3)	265,816	7,966	9,638	10,660	7,466	7,932	8,193	8,230	6,174	4,347	5,706	5,165	4,920	4,937	6,026	363,176
fields:	Chiswick	-	-	-					- 470	-	-	542	569	549	842	836	3,338
	Dimlington (4) Easington (5)	43,858	2,892 2,486	4,700	4,367 1,216	3,484	4,174	4,049	3,478 1,799	2,630 1,644	2,387 1.529	2,078 1,681	1,782 1.025	1,700 432	2,436	2,553	86,569 83,525
	Frigg (FUKA Pipeline) (6)	62,876	2,486	2,412	1,216	2,249	2,158 2,198	2,018 2,170	1,799	1,536	1,529	992	791	432 605	0 243	225	11,992
	Grove (7)	-		-	-		2,190	2,170	1,012	1,556	238	184	409	622	506	398	2,357
	Markham (7)	4,460	485	463	350	304	207	192	377	295	257	144	118	82	47	31	7,811
	Minke (7)	-,400			-		201	132	-	255	138	24	1	1	0	0	165
	Morecambe North (8)	9,804	1,144	4,487	3.775	3,922	3,363	2,865	1,972	1,668	1,195	1,211	1,138	1,178	1,053	1,145	39,919
	Morecambe South (9)	67,936	9.971	8,436	8,224	7.480	7.853	8.181	5.906	2,410	3,692	4,222	1,918	3,489	2.014	1,758	143,489
	Point Of Ayr (10)	4.769	1.870	2,228	2,539	2,279	2.617	1.882	1.552	1,310	1,130	819	574	526	318	349	24.761
	Rough (11)	4,370	0	428	17	0	0	0	0	0	0	0	0	0	0	0	4,815
	Stamford (7)				-	-	-	-	-	-	-	-	132	24	3	6	164
	Theddlethorpe (12)	175,949	11,349	13,994	11,377	8,577	9,602	7,994	7,689	8,942	8,097	7,300	5,910	5,293	4,318	3,304	289,694
	Windermere (7)	714	320	273	223	174	149	91	54	44	48	31	16	15	17	15	2,184
	Wingate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	797	797
	Offshore gas fields' own use (13)	14	-	-	1,026	897	861	912	872	788	684	724	675	803	678	662	9,595
Total offshore dry g	as gross production:	1,000,928	51,071	59,599	54,092	45,239	47,924	44,019	39,210	32,765	30,102	29,629	23,769	23,188	20,143	20,384	1,522,060
Offshore associated	•																
Terminal receipts:	Bacton SEAL Shell (14)	1	-	93	2,207	7,026	7,391	8,464	7,567	7,101	6,833	7,041	7,033	6,430	5,786	1,935	74,907
	Blane	-	-	-	-	-	-	-	-	-	14	38	37	24	23	13	148
	CATS (15)	21,756	13,605	13,618	13,038	14,213	14,972	13,812	11,660	11,125	7,819	8,243	7,757	7,440	5,397	4,612	169,068
	FLAGS (16)	108,821	9,700	10,307	11,651	10,578	7,890	7,720	8,482	7,755	6,659	5,934	4,176	3,569	1,357	934	205,532
	Frigg (FUKA Pipeline) (6)	150,261	9,900	10,315	9,713	11,611	9,719	7,501	7,474	7,996	7,833	6,685	5,647	6,306	3,948	3,590	258,499
	Miller (17)	13,631	1.109	624	256	233	100	174	144	51	3	0	0	0	0	0	16,325
	Point Of Ayr (10)	-	.,	-			77	440	730	766	935	1,022	739	601	705	699	6,713
	SAGE (18)	40,302	15,459	16,802	15,350	15,138	15,704	14,827	13,075	11,998	11,570	11,034	9,486	8,507	6,970	6,097	212,321
	Offshore oil fields' own use	45,807	3.937	3,763	4.730	4.781	4.565	4.513	4.277	4,170	3.961	3,759	3,688	3,548	3,251	2.775	101.524
Total offebore seed	ciated gas gross production:	380,579	53,710	55,522	56.945	63,581	60,418	57,451	53.409	50,962	45,626	43,756	38,564	36,426	27,436	20,654	1,045,037
Total offshore gross		1.381.507	104,781	115,121	111.036	108.819	108,342	101.470	92.619	83.727	75,728	73,385	62,332	59,614	47,579	41.038	2,567,097
Onshore production	* '	1,001,001	.0-1,1-0-1	,	,000	100,010	100,012	.0.,	02,010	00,. 2.	70,720	. 0,000	02,002	00,014	41,010	41,000	2,007,007
Change production	Wytch Farm	1,402	149	111	115	108	82	73	61	46	34	44	40	21	3	_	2,288
	Other terminals / fields	1,434	140	106	91	65	90	49	56	44	77	52	53	71	25	16	2,370
Total onshore gas of		2.836	289	217	205	173	172	122	117	90	111	97	93	92	28	16	4,658
Total gross gas pro	· ·	1,384,343	105,070	115,338	111.242	108.992	108,514	101,592	92.735	83,817	75,839	73,482	62,425	59,707	47,607	41,054	2,571,755
Own use: (19)	****	72,819	6,344	7,033	6.770	6.854	6,607	6,627	6,320	5,978	5,399	5,280	5,158	5,181	4,666	4,174	155,210
						-,	-,										
Total net gas produ	ction:	1,311,524	98,726	108,305	104,472	102,138	101,907	94,965	86,415	77,839	70,439	68,202	57,267	54,526	42,941	36,880	2,416,544

- (1) Production from: Baird, Beaufort, Bell, Bessemer, Boyle, Brown, Camelot (Central, South and North), Davy, Davy East, Garrow, Indefatigable, Indefatigable South West, Kilmar, Leman (BP), North Davy, Trent, Tyne (North and South).
- (2) Production from: Arthur, Bure, Bure West, Dawn, Deben, Delilah, Durango, Excalibur, Galahad, Goosander, Grouse, Guinevere, Hewett, Horne, Lancelot, Malory, Mordred, Orwell, Thames, Thurne, Tristan, Waveney, Welland North West, Welland South, Wensum, Wissey, Wren, Yare.
- (3) Production from: Barque, Barque South, Brigantine (A, B, C and D), Caravel, Carrack, Clipper, Clipper South, Corvette, Cutter, Galleon, Gawain, Indefatigable (Shell), Leman (Shell), Sean, Sean East, Shamrock, Skiff.
- (4) Production from: Apollo, Babbage, Ceres, Cleeton, Eris, Johnston, Mercury, Minerva, Neptune, Ravenspurn North, Ravenspurn South, Seven Seas, Whittle, Wollaston.
- (5) Production from: Amethyst East, Amethyst West, Helvellyn, Hoton, Hyde, Newsham, Rose, West Sole.
- (6) Production from: Alwyn North, Bruce, Captain, Duart, Dunbar, Ellon, Frigg (uk), Forvie, Galley, Grant, Islay, Ivanhoe/Rob Roy, Jura, Keith, NUGGETS, Piper/Tartan, Renee/Rubie, Rhum, Ross Tweedsmuir, Tweedsmuir South.
- (7) Gas exported to the Netherlands.
- (8) Production from:Bains, Calder, Dalton, Millom, Morecambe North.
- (9) Production from: Morecambe South.
- (10) Production from: Hamilton, Hamilton East, Hamilton North, Lennox.
- (11) Converted for use as an off-peak storage unit with effect from 1985.
- (12) Production from: Alison, Alison KX, Anglia, Ann, Audrey, Bell (Conoco), Boulton, Caister (B and C), Callisto, Callisto North, Cavendish, Ensign, Europa, Ganymede, Hawksley, Hunler, Ketch, Kehin, McAdam, Mimas, Murdoch, Pickerill, Rita, Saturn (Annabel), Saturn (Allas, etc.), Saltfleetby, Schooner, Sinope, Topaz, Valiant North, Valiant South, Valkyri, Vampire, Vanguard, Victor, Viking, Viscount, Vixen, Vulcan, Watt.
- (13) Prior to 2001, the own use figure is included within the terminal or field production figure.
- (14) Production from: Elgin, Franklin, Glenelg, Halley, Scoter, Shearwater.
- (15) Production from: Andrew, Banff, Drake, Egret, Erskine, Everest, Farragon, Fleming, Hawkins, Heron, Jade, James, Janice, Joanne, Judy, Lomond, Machar, Madoes, Marnock, Mirren, Monan, Mungo, Seymour, Skua.
- (16) Production from: Bittern, Brent, Causeway, Clapham, Clyde, Cook, Cormorant (North and South), Curlew, Fulmar, Gannet (A, B, C, D, E, F and G), Goldeneye, Guillemot A, Guillemot North West, Guillemot West, Howe, Kittiwake, Kyle, Leven, Magnus South, Mallard, Medwin, Murchison (UK), Nelson, Orion, Pelican, Penguin, Pict, Staffjord (UK), Strathspey, Teal, Teal South, Thistle.
- (17) Gas delivered direct to Boddam (Peterhead) power station by dedicated pipeline.
- (18) Production from: Atlantic, Beinn, Beryl, Boa, Brae Area, Braemar, Britannia, Brodgar, Caledonia, Callanish, Cromarty, Devenick, Enoch (UK), Kingfisher, Larch, Maclure, Ness, Nevis, Scott, Skene, Thelma, Tiffany, Toni, Tullich.
- (19) Includes gas used at onshore gas terminals

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F.3 Natural Gas Liquids net production

													Thousan	d tonnes
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Offshore oil pipeline terminals (1):														
Ethane	534	567	485	511	528	495	402	356	362	333	299	257	229	142
Propane	852	682	903	969	954	849	773	678	627	672	673	554	526	324
Butane	705	483	857	960	961	866	778	722	659	684	684	584	438	281
Condensate	424	439	422	532	532	500	469	419	411	412	406	393	328	181
Total offshore oil terminals:	2,516	2,171	2,667	2,972	2,975	2,710	2,422	2,175	2,058	2,101	2,062	1,788	1,521	928
Offshore associated gas terminals (2):														
Ethane	1,173	1,321	1,114	1,085	1,003	978	1,011	925	791	869	701	608	370	280
Propane	1,890	1,966	1,747	1,700	1,579	1,551	1,374	1,239	1,141	1,254	994	908	521	422
Butane	1,203	1,229	1,044	1,059	997	975	856	810	744	748	593	575	330	285
Condensate	950	1,025	1,033	1,086	1,050	1,062	1,380	1,311	1,057	798	651	592	285	264
Total offshore associated gas terminals:	5,217	5,541	4,938	4,930	4,629	4,566	4,621	4,285	3,733	3,670	2,938	2,683	1,505	1,251
Offshore dry gas terminals (3):														
Condensate	582	505	548	497	545	516	450	412	390	364	346	427	375	316
Total offshore dry gas terminals:	582	505	548	497	545	516	450	412	390	364	346	427	375	316
Onshore production (4):														
Ethane	-	-	-	-	-	-	-	-	-	1	0	0	0	0
Propane	104	76	68	59	45	40	34	29	28	25	26	17	0	13
Butane	96	70	61	52	41	23	15	11	10	7	6	0	0	0
Condensate	-	-	10	4	3	3	1	1	0	0	0	0	0	0
Total onshore production:	200	146	139	115	89	66	49	41	38	33	32	17	0	0
Total Ethane	1,707	1,888	1,599	1,596	1,531	1,473	1,414	1,281	1,153	1,203	999	866	599	422
Total Propane	2,846	2,724	2,718	2,728	2,578	2,440	2,181	1,946	1,796	1,952	1,692	1,479	1,047	759
Total Butane	2,004	1,782	1,962	2,071	1,999	1,864	1,648	1,543	1,412	1,439	1,284	1,159	768	566
Total Condensate	1,956	1,969	2,013	2,119	2,130	2,081	2,300	2,143	1,858	1,574	1,403	1,412	987	761
Total production:	8,515	8,363	8,292	8,514	8,238	7,858	7,543	6,913	6,218	6,168	5,378	4,915	3,401	2,508

⁽¹⁾ Production from: Flotta, Forties, Nigg, Norpipe, Sullom Voe.

⁽²⁾ Production from: Bacton SEAL Shell, CATS, FLAGS, Frigg (UK), SAGE.

⁽³⁾ Production from: Bacton Perenco, Tullow, Shell, Dimlington, Easington,

Barrow, Point Of Ayr, Theddlethorpe. Includes exports from fields that export gas directly to the Netherlands using the Dutch offshore pipeline system.

⁽⁴⁾ Production from: Hamble, Holybourne, Knapton, Wytch Farm.

F.4 Disposals of crude oil⁽¹⁾

														Thousar	nd tonnes
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
UK refineries	46,887	47,170	38,335	32,770	32,060	29,960	27,692	27,971	24,484	25,878	24,574	23,797	21,328	20,789	13,056
Exports:	77,322	80,078	79,061	75,749	75,367	68,073	59,553	49,226	44,923	45,129	40,808	39,102	36,898	28,112	28,536
Albania	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas (2)	257	143	65	-	-	-	-	67	88	-	84	-	-	-	-
Belgium	1,035	1,193	1,038	362	392	560	-	62	-	77	483	-	242	465	-
Canada	808	625	1,667	3,447	3,527	2,786	2,882	1,706	2,471	1,208	490	615	380	292	528
Chile	-	-	-	-	-	-	-	-	-	-	-	666	626	523	234
China	-	1,588	519	260	1,364	159	157	-	-	-	-	-	-	-	-
Denmark	-	-	-	79	64	57	-	-	104	-	240	424	589	551	247
Finland	788	929	690	1,674	184	245	236	552	790	1,626	250	-	-	-	-
France	15,261	15,177	11,975	11,725	10,019	9,842	8,528	4,685	7,249	5,154	3,501	2,540	3,322	2,354	1,662
Germany	17,406	11,879	10,732	11,043	8,058	8,854	9,521	11,000	10,251	10,271	10,542	6,382	7,186	5,210	6,287
Gibraltar	-	-	77	-	-	-	-	-	-	535	-	-	109	82	-
Greece	-	-	-	-	135	-	-	-	-	-	-	-	-	-	-
India	-	277	1,638	-	-	-	-	-	-	245	135	-	92	152	-
Italy	1,219	1,819	1,459	957	1,075	236	2,178	1,961	1,269	401	399	-	169	347	65
Lebanon	-	-	-	-	-	-	-	-	-	-	81	-	-	-	-
Lithuania	-	-	251	-	-	-	-	-	-	-	-	-	-	-	
Martinique (2)	87	-	84	-	178	330	385	754	646	700	347	6	-	-	83
Morocco	-	-	163	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands (3)	15,591	16,540	18,912	20,194	19,794	16,418	12,325	10,462	10,517	11,245	11,192	15,570	13,426	11,832	12,764
Norway	1,087	1,297	542	329	223	545	331	796	156	954	326	352	970	157	559
Poland	1,494	682	368	-	-	-	-	87	319	415	239	321	669	535	160
Portugal	1,157	1,394	714	413	1,078	1,054	563	250	606	85	-	14	80	86	-
Puerto Rico	-	-	-	-	-	212	103	-	60	-	-	-	-	-	-
Republic of Ireland	82	69	-	322	964	977	719	783	100	171	-	75	157	-	-
Singapore	-	-	-	-	-	-	-	-	38	117	83	-	165	226	-
South Africa	1,028	-	-	-	263	-	-	-	271	-	-	258	126	-	-
South Korea	-	260	-	-	-	480	85	-	-	81	605	886	78	619	3,530
Spain	3,403	4,040	2,107	2,025	1,062	589	808	575	389	612	1,211	475	339	159	-
St Lucia (2)	-	-	-	-	-	-	-	-	-	-	-	131	499	135	-
Sweden	1,266	1,024	636	1,313	1,596	992	1,025	588	455	630	671	362	171	1,004	897
Turkey	· -	-	-	· <u>-</u>	-	-	· -	-	-	471	277	80	595	-	195
USA	15,017	21,142	25,340	21,496	24,288	22,259	17,801	13,817	9,056	9,774	9,651	9,868	6,905	3,299	1,166
Virgin Islands (2)	· -	-	-	· <u>-</u>	-	, -	-	93	· -	355	, -		-	-	-
Unknown	-	-	-	110	1,103	1,478	1,906	988	88	-	-	78	-	84	159
Total disposals (4)	124,209	127,248	117,396	108,519	107,427	98,033	87,245	77,197	69,407	71,007	65,382	62,899	58,225	48,900	41,592

⁽¹⁾ Monthly data for aggregate disposals to refineries and exports are available - See paragraph F.21.

⁽²⁾ Some of the exports to the Caribbean area may have been for transhipment to the USA.

⁽³⁾ Exports to the Netherlands include oil for transhipment or in transit to other destinations (e.g. Belgium and Germany).

⁽⁴⁾ Includes disposals of onshore production. The difference between disposals and production as shown in

Table F.2 is accounted for by platform and other field stock changes and by terminal and transit stock changes.

Annex G

Foreign trade

Introduction

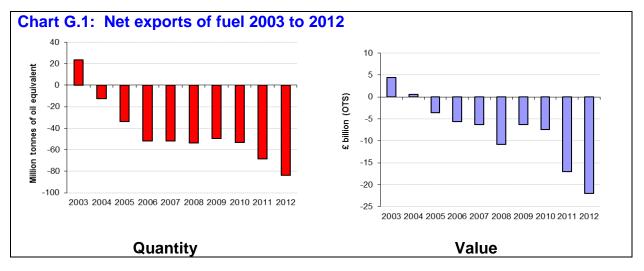
G.1 This section on foreign trade brings together detailed figures on imports and exports of fuels in the UK, generally in terms of both quantity and value. Table G.1 provides an overall view for all fuels from 2001 to 2012. Table G.2 presents a long term view of the value of imports and exports of fuels, from 1970 to 2012. Tables G.3 to G.6 present more detailed figures on crude oil, petroleum products, gas, and coal and other solid fuels.

G.2 The information in this section is largely derived from returns made to HM Revenue and Customs (HMRC), and corresponds to that published in the *Overseas Trade Statistics of the United Kingdom* (O.T.S.)¹. The figures for 2012 are provisional. Work continues to minimise the differences in the data reported by industry to HMRC (as published in this annex) and those reported by industry to DECC (published in DUKES). However, in some instances in this annex DECC have used estimates based on other sources to improve accuracy. Those estimates are clearly marked and footnoted in the tables.

Import and export of fuels and related materials (Table G.1)

G.3 This table presents the import, export and net export figures in quantity and value terms, broken down by the main fuel groups for the years 2001 to 2012.

G.4 To allow comparison in the values of imports and exports, additional series are also included presenting import values on a "free on board" (f.o.b.) basis. Import values are normally recorded in "cost, insurance and freight" (c.i.f.) prices whereas f.o.b. prices are always used for export values. This approach is similar to that used by the Office for National Statistics in their overall trade figures when they compile the Balance of Payments (BoP). Paragraph G.29 of the Technical Notes briefly describes the c.i.f. and f.o.b. in valuing imports and exports.



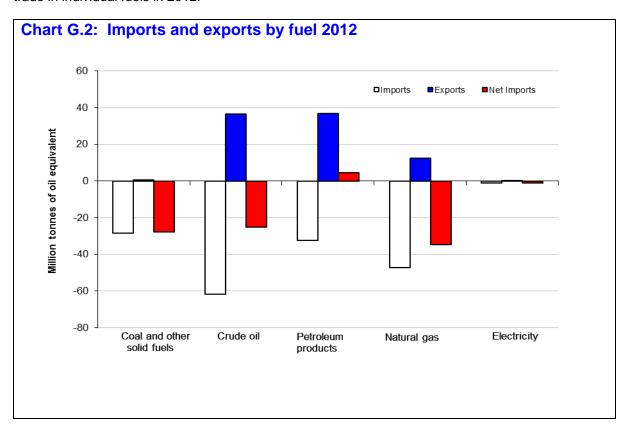
G.5 Chart G.1 above illustrates the recent trends in the trade balance in fuels, both in terms of quantity and value since 2003. It also illustrates the switch from the United Kingdom being a net exporter of energy to a net importer.

G.6 In volume terms, the United Kingdom became a net importer of fuels in 2004 with imports exceeding exports by 12.4 million tonnes of oil equivalent (mtoe). The United Kingdom has since remained a net importer of fuels and in 2012, its net imports increased further on the previous year by 15.5 mtoe to 83.9 mtoe, with 6.1 per cent increase in imports and a 6.2 per cent decrease in exports over the previous year.

G.7 In 2012, the United Kingdom, in financial terms, had its deficit increased by 17 per cent on a balance of payments basis to £22.4 billion. This compares to a £4 billion surplus in 2003. The deficit of crude oil and petroleum products in 2012 was £15.4 billion compared to a £0.4 billion surplus in 2004.

1 http://customs.hmrc.gov.uk/channelsPortalWebApp/channelsPortalWebApp.portal?_nfpb=true&_pageLabel=pageImport_ShowContent&id=HMCE_CL_001141&propertyType=document

G.8 In 2012, the United Kingdom was a net importer of all fuels except for petroleum products. Despite the 6.1 per cent increase in total imports and the 6.2 per cent decrease in total exports over the previous year, net exports of petroleum products were 4.6 mtoe (a 47 per cent reduction). This reduction in net exports was mainly due to the closure of Coryton refinery in July 2012 which affected production of petroleum products and as a result, imports also increased to meet demand. Chart G.2 illustrates the trade in individual fuels in 2012.



Value of imports and exports of fuels 1970 to 2012 (Table G.2)

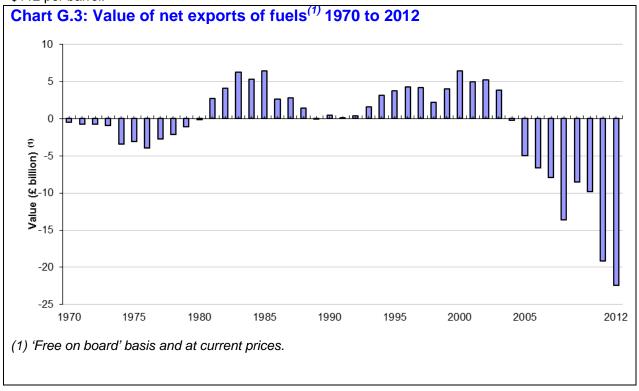
G.9 Values of imports (c.i.f.) and exports (f.o.b.) broken down by the main fuel groups are given in Table G.2. This table is also an extension of the trading values in Table G.1, with the series extended back to 1970. Import values on a f.o.b. basis are also included, enabling net exports to be presented on a comparable f.o.b. basis over the same period.

G.10 In volume terms, production of oil and gas from the North Sea fell in the late 1980's following the Piper Alpha disaster; between 1989 and 1992 the United Kingdom became a net importer of fuels. In the mid-1990's, as a result of growth in production the United Kingdom again became a net exporter of fuels, however after the peak in 1999, North Sea production has continued to slow down and since 2004 the United Kingdom reverted back to become and has remained a net importer of fuels. On a monetary basis the switch occurred a year later in 2005.

G.11 Chart G.3 shows the net exports of fuels in value terms since 1970. The United Kingdom's trade in fuels was dominated by imports until exports started to grow substantially in the mid-1970s, when production from the North Sea started, resulting in a trade surplus in 1981. This surplus was sustained between 1981 and 2004, except for a small deficit in 1989, and amounted to just under £80 billion over that period. However, these surpluses were reduced by the fall in oil prices in 1986, and then by the fall in North Sea production following the Piper Alpha accident in 1988 and the resulting safety work. Although the trade surplus increased steadily from 1992 to 1996, there were falls in 1997 and 1998 due to the drop in the price of crude oil. Prices of crude oil and petroleum products increased in 1999 and again in 2000 giving it, in current price terms, the highest net surplus. In 2001 the value of the trade surplus fell, reflecting falls in the price of crude oil and petroleum products; however, this was partly reversed by a 6 per cent increase in the net trade surplus during 2002.

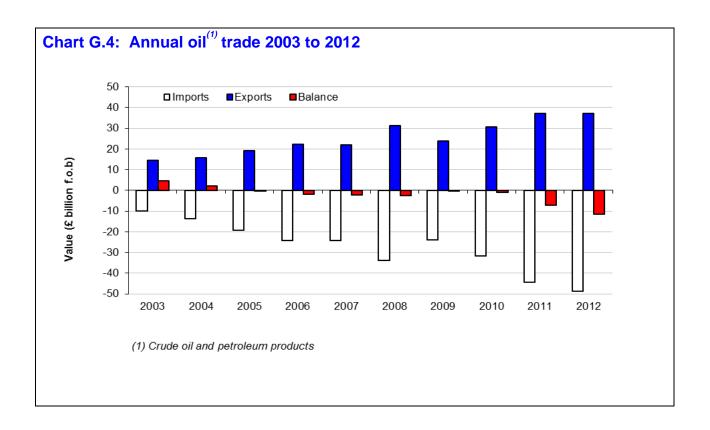
G.12 Since 2004 the UK has been a net importer of fuel with deficits recorded both for oil and for the other fuels series. The increase in the deficit in 2008 was due to a sharp rise in the price of crude oil with Brent prices increasing from \$73 per barrel in 2007, to \$98 per barrel in 2008, before falling back to \$63 per barrel in 2009. In 2011 there was a sharp increase in the size of the energy trade deficit, which

nearly doubled from £9.8 billion in 2010 to £19.1 billion; this was mainly due to the oil deficit increasing from £4.7 billion to £11.5 billion, as oil prices rose sharply from an average of \$80 per barrel in 2010 to \$111 per barrel in 2011. In 2012, the deficit for oil increased by a further £3.9 billion, though this was due to greater imports of both crude oil and petroleum products as prices remained broadly unchanged at \$112 per barrel.



UK imports and exports of crude oil and petroleum products (Table G.3)

- G.13 The data in this table details the pattern in oil trade in the United Kingdom. Table G.3 shows quantities, in thousands of tonnes, of crude oil and refined petroleum products, and their unit values per tonne, with import values on a c.i.f. basis and export values on a f.o.b. basis. The total import values of crude oil and petroleum products, on an f.o.b. basis, are shown in Table G.1, whilst chart G.4 shows the level of imports, exports and net exports in f.o.b value terms of crude oil and petroleum products from 2003 to 2012.
- G.14 The main refined petroleum products imported into the United Kingdom in 2012 were gas oil & diesel oil which together accounted for 43 per cent of the total; followed by aviation turbine fuel (kerosene) which accounted for 22 per cent. The main refined petroleum products exported in 2012 were motor & aviation spirits; and gas oil & diesel oil both accounting for 27 per cent of the total.
- G.15 Net exports of petroleum products fell by 5.6 million tonnes in 2012 to 3.0 million tonnes, with imports up by 8 per cent to 29.8 million tonnes and exports down by 9 per cent to 32.8 million tonnes.



UK imports and exports of crude oil by country (Table G.4)

G.16 The data in Table G.4 show details of trade in crude oil by country. The import data, as far as possible, are on a 'country of origin' (or production) basis. Since the introduction of 'Intrastat' at the start of 1993, recording of country of origin for Intra-EU trade has been optional, so a small amount may be recorded as country of consignment i.e. the country from which the goods were consigned to the United Kingdom as opposed to the true country of origin. This change has had little impact, as virtually all of the UK's imported crude oil is supplied direct from countries outside the EU, in particular Norway.

G.17 Norway supplied just over 50 per cent of the United Kingdom's imports of crude oil in 2012, down from 67 per cent in 2011. The majority of the remaining imports came from OPEC African countries (Nigeria, Algeria, Libya and Angola) which together accounted for over 25 per cent of imports, with Russia accounting for a further 11 per cent. The Middle East accounted for 1 per cent of imports, down from their 5 per cent share in 2000. In 2012, 80 per cent of the United Kingdom exports of crude oil went to EU countries, broadly unchanged compared with 2011. Most of the non-EU export trade was with South Korea and the US. The UK's two largest markets in the EU are Germany and the Netherlands; the bulk of the exports to Germany are for refining and consumption there, whilst the exports to the Netherlands include oil destined for onward trade to other countries.

G.18 In 2012, the average value recorded by HM Revenue and Customs for crude oil exports and imports were similar with both between £530 and £540 per tonne, which equates to around \$112 per barrel.

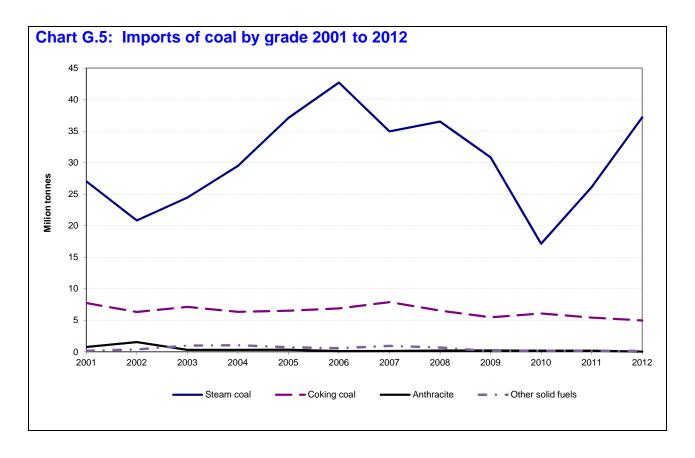
Imports and exports of solid fuels (Table G.5)

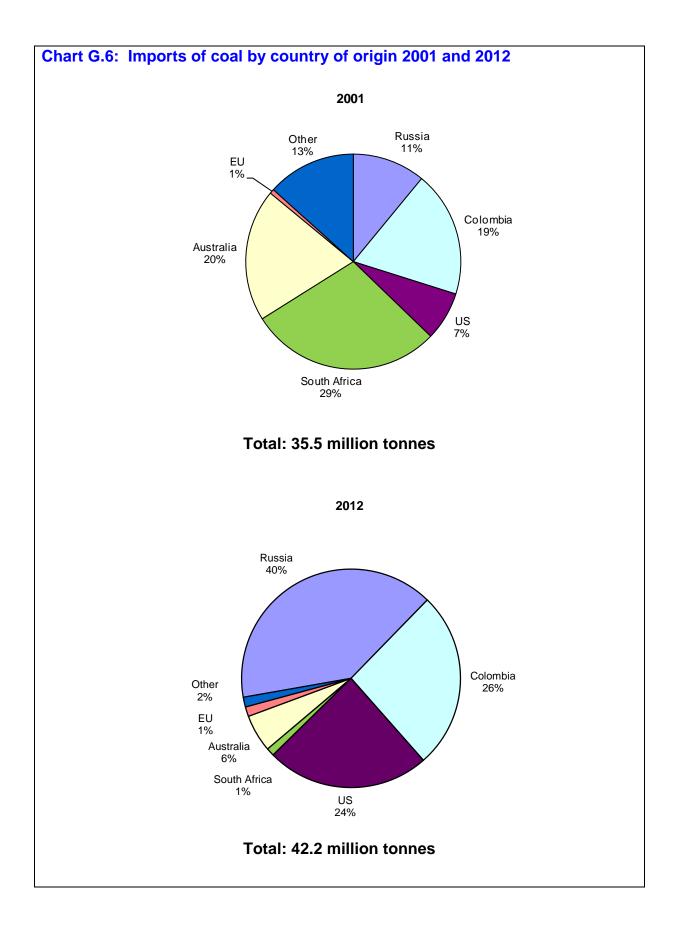
G.19 Table G.5 gives a breakdown of imports and exports of steam coal, coking coal, anthracite and other solid fuels by country of origin or destination. The imports and exports data are provided by HM Revenue and Customs, but where there have been apparent misclassifications by the importers of the types of coal (eg because the country of origin does not produce that type of coal), DECC has made adjustments.

G.20 In 2012, UK import levels increased from the previous year. The UK imported 42.3 million tonnes of coal and other solid fuels, an increase of 32.6 per cent on 2011 (+10.4 million tonnes). Around 12 per cent of coal imports were coking coal in 2012, of which only limited amounts are produced in the United Kingdom. The figures for imports of coal by grade and other solid fuels are illustrated in Chart G.5.

G.21 In 2012, 40.0 per cent of the United Kingdom's total imports of coal came from Russia, with 26.2 per cent from Colombia. A further 29.7 per cent of coal imports combined came from two additional countries: the US and Australia. Steam coal imports came mainly from Russia (44.0 per cent), Colombia (29.8 per cent) and the US (22.2 per cent). Imports of steam coal from Russia in 2012 were up 37.6 per cent on 2011 levels, with those from the US up by 90 per cent. The majority of UK coking coal imports came from Australia (47.0 per cent), USA (38.6 per cent) and Russia (10 per cent). Imports of coal by country of origin are illustrated in Chart G.6.

G.22 Exports of coal and other solid fuels amounted to 0.9 million tonnes in 2012, down 0.2 million tonnes on 2011 volumes. In 2012 around thirty eight per cent UK coal exports and other solid fuels went to the Irish Republic.





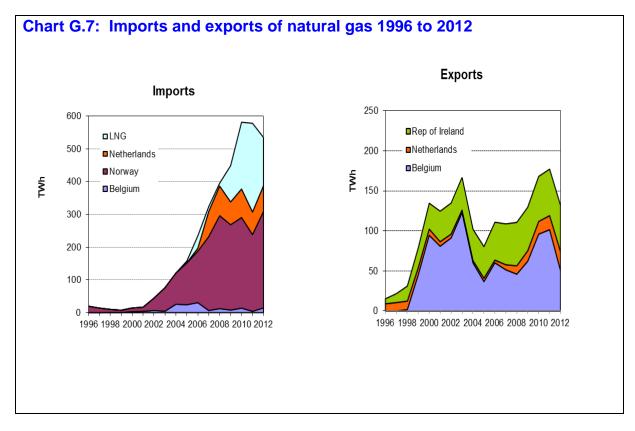
Imports and exports of natural gas (Table G.6)

G.23 Table G.6 gives a breakdown of imports and exports of natural gas by country of origin or destination. The data are physical flows as reported by the pipeline or terminal operators to DECC. As such the data presented in this table differ from the nominated flows reported in Chapter 4 although the overall net flows (be they net imports or net exports) are essentially the same.

G.24 In 2012 the UK imported 535 TWh of gas, down 7 per cent on 2011. In 2012, 55 per cent of gas imports came directly from the Norwegian Continental Shelf. LNG imports from various sources accounted for 28 per cent of total gas imports, with Qatar accounting for 98 per cent of total LNG imports. Supplies were also delivered to the UK from the European mainland via the Balgzand (Netherlands)-Bacton interconnector and from Zeebrugge (Belgium) via the interconnector with Belgium. The origin of the gas molecules from mainland Europe is not known so they are assigned to the Netherlands and Belgium. A time series of imports and exports of gas by country are shown in Chart G.7.

G.25 In 2012 the UK exported 132 TWh of gas, a decrease of 26 per cent on 2011. Belgium and the Republic of Ireland were the two main receivers of UK gas exports. The other main destination of UK exports was the Netherlands, from UK or UK share gas fields using the Dutch WGT pipeline system to Den Helder and Uithuizen.

G.26 Between 1997 and 2003 the UK was a net exporter of gas. UK gas production peaked in 2000 and has since been in general decline. As a result the UK has accessed additional supplies of gas from a range of sources that will play a significant part in bridging the gap between indigenous production and demand as reserves on the UK Continental Shelf deplete.



Technical notes and definitions

G.27 The figures of imports and exports quoted are largely derived from notifications to HM Revenue and Customs, and may differ from those for actual arrivals and shipments, derived from alternative and/or additional sources, in the sections of the Digest dealing with individual fuels. Data in Table G.1 also include unpublished revisions to Customs data, which cannot be introduced into Tables G.3 to G.5.

G.28 All quantity figures in Table G.1 have been converted to million tonnes of oil equivalent to allow data to be compared and combined. This unit is a measure of the energy content of the individual fuels; it is also used in the Energy section of this Digest and is explained in Annex A, paragraphs A.45 to A.46. The quantities of imports and exports recorded in the Overseas Trade Statistics in their original units of measurement, are converted to tonnes of oil equivalent using weighted gross calorific values and standard conversion factors appropriate to each division of the Standard International Trade Classification (SITC). The electricity figures are expressed in terms of the energy content of the electricity traded.

G.29 Except as noted in Table G.1, values of imports are quoted "c.i.f." (cost, insurance and freight). Briefly this value is the price that the goods would fetch at that time, on sale in the open market between buyer and seller independent of each other, with delivery to the buyer at the port of importation, the seller bearing freight, insurance, commission and all other costs, etc, incidental to the sale and delivery of the goods with the exception of any duty or tax chargeable in the United Kingdom. Values of exports are "f.o.b." (free on board), which is the cost of the goods to the purchaser abroad, including packing, inland and coastal transport in the United Kingdom, dock dues, loading charges and all other costs, charges and expenses accruing up to the point where the goods are deposited on board the exporting vessel or at the land boundary of Northern Ireland.

G.30 Figures of the value of net exports in Tables G.1 and G.2 are derived from exports and imports measured on a Balance of Payments (B.O.P) basis. The figures are consistent with the European System of Accounts 1995, the basis on which they are published by the Office for National Statistics. This means exports as recorded by HM Revenue and Customs, will differ from those recorded by the Office for National Statistics on a B.O.P basis. Table G.1 shows figures on both bases.

G.31 Figures correspond to the following items of SITC (Rev 3) at http://unstats.un.org/unsd/cr/registry/regcst.asp?Cl=14&Lq=1

Coal 321.1 and 321.2 Other solid fuels 322.1 and 325 (part)

Crude oil 333

Petroleum products 334, 335, 342 and 344 (plus Orimulsion reclassified to division

278 during 1994)

Natural gas 343 Electricity 351

G.32 In 1993, the Single European Market was created. At that time, a new system for recording the trade in goods between member states, called INTRASTAT, was introduced. As part of this system only obliges small traders to report their annual trade and as some trading supply returns are late, it is necessary to include adjustments for unrecorded trade. This is particularly true of 1993, the first year of the system and of coal imports in that year.

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G.1 Imports and exports of fuels $^{(1)}$

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012 ⁽²
luan auta	2001	2002	2003	2004	2003	2000	2007	2000	2009	2010	2011	2012
Imports												
Coal and other solid fuel	24.8	20.0	22.5	25.4	30.6	34.6	28.8	28.7	23.7	15.6	21.8	28.5
Crude oil	43.2	44.6	48.7	61.4	59.1	60.8	48.2	56.8	55.3	55.1	58.5	61.6
Petroleum products	23.2	23.1	25.0	28.9	31.1	34.5	41.6	29.1	28.2	30.0	29.7	32.4
Natural gas⁵	2.6	5.2	7.4	11.4	14.9	21.0	29.1	35.0	39.2	50.7	50.3*	47.1
Electricity	0.9	0.8	0.4	0.8	1.0	0.9	0.7	1.1	0.6	0.6	0.7	1.2
Total imports	94.8	93.8	104.0	127.9	136.7	151.8	148.3	150.7	147.0	152.0	161.0	170.7
Exports												
Coal and other solid fuel	0.7	0.7	0.6	0.6	0.5	0.4	0.7	1.0	0.5	1.0	0.9	0.7
Crude oil	89.6	87.1	76.0	66.1	55.2	51.4	51.2	47.0	47.3	45.2	37.3	36.6
Petroleum products	30.1	33.5	35.7	38.7	38.5	37.6	33.6	38.2	37.6	37.0	38.4	37.0
Natural gas⁵	11.9	13.0	15.2	9.8	8.3	10.4	10.6	10.5	11.8	15.2	15.8*	12.4
Electricity	0.0	0.1	0.3	0.2	0.2	0.2	0.3	0.1	0.3	0.4	0.2	0.2
Total exports	132.3	134.3	127.7	115.5	102.7	100.0	96.4	96.9	97.5	98.8	92.5	86.8
Net exports												
Coal and other solid fuel	-24.1	-19.3	-21.9	-24.8	-30.1	-34.2	-28.1	-27.6	-23.2	-14.6	-20.9	-27.8
Crude oil	46.4	42.5	27.3	4.8	-3.9	-9.5	3.0	-9.9	-8.0	-9.8	-21.2	-25.0
Petroleum products	6.9	10.4	10.6	9.9	7.4	3.1	-7.9	9.1	9.3	7.0	8.7	4.6
Natural gas	9.3	7.8	7.8	-1.6	-6.6	-10.6	-18.5	-24.5	-27.4	-35.5	-34.5	-34.7
Electricity	-0.9	-0.7	-0.2	-0.6	-0.7	-0.6	-0.4	-0.9	-0.2	-0.2	-0.5	-1.0
Total net exports	37.6	40.5	23.7	-12.4	-34.0	-51.9	-52.0	-53.8	-49.4	-53.1	-68.4	-83.9

Value												£ million
Imports - O.T.S basis (c.i.f.)												
Coal and other solid fuel	1,198	875	994	1,482	1,963	2,203	2,080	3,661	2,676	1,908	3,027	3,17
Crude oil	5,090	4,986	5,954	8,496	11,519	14,580	11,685	20,538	14,520	19,490	28,080	30,35
Petroleum products	3,693	3,244	3,876	5,194	7,852	9,788	12,568	13,256	9,468	12,307	16,159	18,49
Natural gas	187	260	135	670	1,731	2,512	2,883	6,426	4,773	7,121	10,132*	10,03
Electricity	179	189	171	347	442	421	239	483	259	326	467	67
Total imports	10,347	9,554	11,131	16,189	23,507	29,504	29,454	44,364	31,696	41,152	57,866	62,73
Exports (f.o.b.)												
Coal and other solid fuel	61	62	53	60	65	49	73	156	108	228	185	325
Crude oil	10,486	9,802	9,240	9,338	10,733	12,760	12,630	16,586	12,499	15,796	17,052	16,810
Petroleum products	4,236	4,302	5,162	6,564	8,305	9,627	9,301	14,733	11,375	14,958	20,153	20,433
Natural gas	746	848	946	645	737	1,315	996	1,945	1,218	2,507	3,356*	3,036
Electricity	3	101	181	151	102	105	108	110	161	204	138	102
Total exports	15,531	15,115	15,581	16,759	19,942	23,855	23,109	33,531	25,361	33,692	40,884	40,707
Net exports - O.T.S basis												
Coal and other solid fuel	-1,136	-813	-941	-1,422	-1,898	-2,155	-2,007	-3,505	-2,568	-1,680	-2,842	-2,853
Crude oil	5,396	4,816	3,286	842	-786	-1,820	945	-3,952	-2,021	-3,694	-11,029	-13,543
Petroleum products	543	1,058	1,285	1,370	453	-161	-3,266	1,478	1,906	2,651	3,994	1,939
Natural gas	559	588	811	-25	-995	-1,197	-1,887	-4,481	-3,554	-4,615	-6,776	-6,997
Electricity	-176	-89	10	-195	-340	-316	-130	-373	-99	-121	-329	-572
Total net exports	5,185	5,561	4,450	570	-3,566	-5,649	-6,345	-10,833	-6,336	-7,460	-16,982	-22,026
Imports - B.O.P. basis (f.o.b.) (4)												
Oil (3)	9,948	9,577	11,575	15,717	22,403	26,447	27,120	38,390	28,020	36,010	49,461	53,959
Other fuels	1,300	1,042	1,000	2,286	4,002	4,916	5,147	10,583	7,439	8,863	12,353	11,443
Total imports	11,248	10,619	12,575	18,003	26,405	31,363	32,267	48,973	35,459	44,873	61,814	65,402
Net exports - B.O.P. basis (*)		-,-	,, ,	-,	.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	.,.	,	, , , , , , , , , , , , , , , , , , , ,	- /-	
Oil (3)	4,658	4,584	2,916	375	-2,662	-3,853	-4,723	-6,533	-3,452	-4,722	-11,495	-15,358
Other fuels	259	633	949	-609	-2,320	-2,787	-3,212	-7,044	-5,082	-5,059	-7,639	-7,092
Total net exports	4,917	5,217	3,865	-234	-4,982	-6,640	-7,935	-13,577	-8,534	-9,781	-19,134	-22,450

(1) See Energy Trends at https://www.gov.uk/government/organisations/department-of-energy-climate-change/about/statistics for the latest DECC quarterly estimates

*DECC estimates

⁽²⁾ Provisional.

⁽³⁾ Crude oil and petroleum products.

⁽⁴⁾ The Balance of Payments figures are on a ESA95 basis.

⁽⁵⁾ Physical flow

G.2 Value of imports and exports of fuels, ⁽¹⁾⁽²⁾

						£ million
		1970	1971	1972	1973	1974
Imports (c.i.f.)	Coal and other solid fuels	2	46	57	27	66
	Crude oil	687	930	914	1,296	3,726
	Petroleum products (3)	242	259	257	389	823
	Natural gas	11	10	9	9	8
	Electricity	2	-	2		
Total imports		944	1,245	1,239	1,721	4,623
Exports (f.o.b.)	Coal and other solid fuels	29	22	17	27	65
	Crude oil	8	10	21	23	29
Total consists	Petroleum products (4)	170	204	201	320	681
Total exports	0:1 (5)	207	236	239	370	775
Imports (f.o.b.)	Oil (5) Other fuels (5)	816	1,068	1,053	1,498	4,340
Total imments	Other ruels 17	17	48	63	34	77
Total imports	o:: (5)	833	1,116	1,116	1,532	4,417
Net exports ⁽⁸⁾	Oil ⁽⁵⁾	-503	-696	-660	-948	-3,372
(B.O.P basis)	Other fuels	+14	-24	-44	-4	-6
Total net exports		-489	-720	-704	-952	-3,378
		1975	1976	1977	1978	1979
Imports (c.i.f.)	Coal and other solid fuels	110	86	84	82	148
importo (oiiii)	Crude oil	3,371	4,445	3,971	3,506	3,678
	Petroleum products (3)	810	1,089	1,128	1,023	1,591
	Natural gas	14	21	44	188	356
	Electricity	1			-	-
Total imports	Electricity	4,306	5,641	5,227	4,799	5,773
Exports (f.o.b.)	Coal and other solid fuels	84	72	80	90	100
	Crude oil	30	178	918	1,236	2,710
	Petroleum products (4)	705	1,004	1,086	1,038	1,500
Total exports	,	819	1,254	2.084	2,364	4.310
Imports (f.o.b.)	Oil (9)	4,043	5,407	5,051	4,504	5,242
. , ,	Other fuels (6)	122	121	154	291	517
Total imports		4,165	5,528	5,205	4,795	5,759
Net exports ⁽⁸⁾	Oil (5)	-3,051	-3,922	-2,723	-1,930	-721
(B.O.P basis)	Other fuels	-29	-28	-41	-151	-351
Total net exports		-3,080	-3,950	-2,764	-2,081	-1,072
		1980	1981	1982	1983	1984
Imports (c.i.f.)	Coal and other solid fuels	228	171	218	264	651
	Crude oil	4,292	4,112	3,951	3,308	3,993
	Petroleum products (3)	1,856	2,173	2,413	2,506	4,360
	Natural gas	521	699	815	977	1,307
	Electricity					
Total imports		6,897	7,155	7,397	7,055	10,311
Exports (f.o.b.)	Coal and other solid fuels	180	372	330	239	88
	Crude oil	4,220	7,096	8,542	10,111	12,173
Total avecata	Petroleum products (4)	2,017	2,148	2,365	2,776	3,047
Total exports	O:I (5)	6,417	9,616	11,237	13,126	15,308
Imports (f.o.b.)	Oil (5)	6,182	6,366	6,390	5,879	8,274
Total imments	Other fuels (b)	742	883	1,081	1,274	2,029
Total imports	(5)	6,924	7,249	7,471	7,153	10,303
Net exports ⁽⁸⁾	Oil ⁽⁵⁾	+280	+3,092	+4,607	+6,891	+6,860
(B.O.P basis)	Other fuels	-446	-375	-530	-672	-1,572
Total net exports		-166	+2,717	+4,077	+6,219	+5,288

G.2 Value of imports and exports of fuels, ⁽¹⁾⁽²⁾ (continued)

(Continue	su)					£ million
		1985	1986	1987	1988	1989
Imports (c.i.f.)	Coal and other solid fuels	716	456	390	472	513
	Crude oil	4,341	2,440	2,703	2,044	3,079
	Petroleum products (3)	4,071	2,079	1,880	1,546	1,889
	Natural gas Electricity	1,511	1,320 80	878 242	692 268	615 305
Total imports	Electricity	10,639	6,375	6,093	5,022	6,401
Exports (f.o.b.)	Coal and other solid fuels	178	190	109	96	109
, , , , , ,	Crude oil	13,006	6,281	6,765	4,515	4,024
	Petroleum products (4)	3,611	2,200	1,893	1,646	2,039
Total exports	<u> </u>	16,795	8,671	8,767	6,257	6,172
Imports (f.o.b.)	Oil (5)	8,385	4,547	4,751	3,645	5,102
	Other fuels	2,257	1,877	1,561	1,470	1,482
Total imports	(5)	10,642	6,424	6,312	5,115	6,584
Net exports ⁽⁸⁾	Oil ⁽⁵⁾	+8,030	+4,012	+4,045	+2,685	+1,222
(B.O.P basis)	Other fuels	-1,595	-1,413	-1,258	-1,228	-1,226
Total net exports		+6,435	+2,599	+2,787	+1,457	-4
		1990	1991	1992	1993	1994
Imports (c.i.f.)	Coal and other solid fuels	630	734	744	731	598
	Crude oil	4,033	3,887	3,745	4,078	3,241
	Petroleum products (3)	2,427	2,063	1,711	1,766	1,689
	Natural gas	519	472	397	327	231
	Electricity	225	343	369	426	388
Total imports		7,834	7,499	6,966	7,328	6,148
Exports (f.o.b.)	Coal and other solid fuels	119	97	63	73	75
	Crude oil	5,172	4,370	4,413	5,147	6,095
	Petroleum products (4) Natural gas	2,455	2,640	2,401 2	3,149 28	2,776 45
	Electricity	- 25	-	-	-	45
Total	,	7,771	7,107	6,879	8,397	8,991
Imports (f.o.b.)	Oil (5)	6,443	6,010	5,562	6,012	5,142
	Other fuels	1,471	1,613	1,561	1,461	1,200
Total imports		7,914	7,623	7,123	7,473	6,342
Net exports ⁽⁸⁾	Oil ⁽⁵⁾	+1,631	+1,274	+1,610	+2,612	+3,937
(B.O.P basis)	Other fuels	-1,147	-1,260	1,254	-1,010	-787
Total net exports		+484	+14	+356	+1,602	+3,150
		1995	1996	1997	1998	1999
Imports (c.i.f.)	Coal and other solid fuels	601	694	714	687	599
. ,	Crude oil	3,236	4,035	3,647	2,170	2,273
	Petroleum products (3)	1,542	1,821	1,433	1,415	1,961
	Natural gas	105	117	103	43	27
Total imments	Electricity	408 5,892	391 7,058	406	374 4.689	396
Total imports Exports (f.o.b.)	Coal and other solid fuels	5,892	7,058	6,303 82	4,689	5,256 61
Exports (1.0.b.)	Crude oil	6,428	7,426	6,322	4,485	6,148
	Petroleum products (4)	2,621	3,268	3,239	2,328	2,849
	Natural gas	54	65	80	80	230
	Electricity	-	2	1	3	8
Total exports	- · · /0!	9,174	10,843	9,724	6,965	9,297
Imports (f.o.b.)	Oil (s)	5,061	6,118	5,679	4,225	5,001
Total imments	Other fuels	1,100	1,166	1,145	941	782
Total imports	0:1 (5)	6,161	7,284	6,824	5,166	5,783
Net exports ⁽⁸⁾	Oil ⁽⁵⁾	4,323	4,810	4,560	2,676	4,012
(B.O.P basis)	Other fuels	-542	-516	-368	-458	20
Total net exports		3,781	4,294	4,192	2,218	4,032

G.2 Value of imports and exports of fuels, (1)(2) (continued)

(Continue						£ millior
		2000	2001	2002	2003	2004
Imports (c.i.f.)	Coal and other solid fuels	696	1,198	875	994	1,482
	Crude oil	5,095	5,090	4,986	5,954	8,496
	Petroleum products (3)	3,430	3,693	3,244	3,876	5,194
	Natural gas	135	187	260	135	670
	Electricity	373	179	189	171	347
Total imports		9,729	10,347	9,554	11,131	16,189
Exports (f.o.b.)	Coal and other solid fuels	74	61	62	53	60
	Crude oil	10,177	10,486	9,802	9,240	9,338
	Petroleum products (4)	4,867	4,236	4,302	5,162	6,564
	Natural gas	577	746	848	946	645
	Electricity	5	3	101	181	151
Total exports		15,699	15,531	15,115	15,581	16,759
Imports (f.o.b.)	Oil ⁽⁵⁾	9,531	9,948	9,577	11,575	15,717
	Other fuels	998	1,300	1,042	1,000	2,286
Total imports		10,529	11,248	10,619	12,575	18,003
Net exports ⁽⁸⁾	Oil ⁽⁵⁾	5,935	4,658	4,584	2,916	375
(B.O.P basis)	Other fuels	456	259	633	949	-609
Total net exports		6,391	4,917	5,217	3,865	-234
		2005	2006	2007	2008	2009
Imports (c.i.f.)	Coal and other solid fuels	1,963	2,203	2,080	3,661	2,676
imports (c.i.i.)	Crude oil	11,519	14,580	11,685	20,538	14,520
	Petroleum products (3)	7,852	9,788	12,568	13,256	9,468
	Natural gas	1,731	2,512	2,883	6,426	4,773
	Electricity	442	421	239	483	259
Total imports	Electricity	23,507	29,504	29,454	44,364	31,696
Exports (f.o.b.)	Coal and other solid fuels	65	49	73	156	108
	Crude oil	10,733	12,760	12,630	16,586	12,499
	Petroleum products (4)	8,305	9,627	9,301	14,733	11,375
	Natural gas	737	1,315	996	1,945	1,218
	Electricity	102	105	108	110	161
Total exports	•	19,942	23,855	23,109	33,531	25,361
Imports (f.o.b.)	Oil ⁽⁵⁾	22,403	26,447	27,120	38,390	28,020
	Other fuels	4,002	4,916	5,147	10,583	7,439
Total imports		26,405	31,363	32,267	48,973	35,459
Net exports ⁽⁸⁾	Oil (5)	-2,662	-3,853	-4,723	-6,533	-3,452
(B.O.P basis)	Other fuels	-2,320	-2,787	-3,212	-7,044	-5,082
Total net exports		-4,982	-6,640	-7,935	-13,577	-8,534
				(7)		
		2010	2011	2012 (7)		
Imports (c.i.f.)	Coal and other solid fuels	1,908	3,027	3,178		
	Crude oil	19,490	28,080	30,353		
	Petroleum products (3)	12,307	16,159	18,494		
	Natural gas	7,121	10,132*	10,034*		
	Electricity	326	467	674		
Total imports		41,152	57,866	62,733		
Exports (f.o.b.)	Coal and other solid fuels	228	185	325		
	Crude oil	15,796	17,052	16,810		
	Petroleum products (4)	14,958	20,153	20,433		
	Natural gas	2,507	3,356*	3,036*		
	Electricity	204	138	102		
Total exports		33,692	40,884	40,707		
Imports (f.o.b.)	Oil ⁽⁵⁾	36,010	49,461	53,959		
	Other fuels	8,863	12,353	11,443		
Total imports		44.070	C4 O4 4	CF 400		

Source: Office for National Statistics

Oil

Other fuels

65,402

-15.358

-7,092

-22,450

61,814

-11,495

-7,639

-19,134

44,873

-4,722

-5,059

-9,781

Total imports Net exports⁽⁸⁾

(B.O.P basis)

Total net exports

See Energy Trends at https://www.gov.uk/government/organisations/department-of-energy-climate-change/about/statistics for the latest DECC quarterly estimates
 See notes in Foreign Trade section of this and earlier editions of the Diges.
 Includes petroleum products not used as fuel, eg lubricants, and liquefied petroleum gases other than natural gas.
 Includes petroleum products not used as fuel, eg lubricants, and liquefied petroleum gases, and small quantities of natural gas

⁽⁵⁾ Crude oil and petroleum products.

⁽⁶⁾ Data prior to 1985 include small quantities of non-fuel products (eg peat). These items are excluded from the c.i.f. import data and the export data.

⁽⁷⁾ Provisional.

⁽⁶⁾ Net exports are the difference between exports and imports on a Balance of Payments (B.O.P) basis – see Table G.1 for figures in the period 2001 to 2012.

^{*}DECC estimates

G.3 Imports and exports of crude oil and petroleum products

	1999		2000		2001		2002		2003		2004	
	Quantity		Quantity		Quantity		Quantity		Quantity		Quantity	
	(Thousand	Value per										
	tonnes)	tonne (£)										
Imports (c.i.f.)												
Crude oil	33,151	76.0	36,898	138.2	37,696	128.0	40,913	122.0	44,379	133.9	56,095	151.4
Refined petroleum products (1)												
Petroleum gases (2)	845	120.5	1,119	131.8	1,156	119.7	709	140.9	549	250.2	818	203.9
Motor spirit and aviation spirit	1,947	119.5	1,971	210.0	3,440	200.4	2,280	168.8	1,828	178.1	2,215	227.4
Other light oils and spirit (3)	667	99.0	584	217.7	550	194.7	681	179.4	1,294	179.3	1,294	212.7
Aviation turbine fuel (kerosene)	4,163	109.5	5,761	193.0	6,716	174.4	7,156	156.1	6,073	173.1	7,687	215.8
Other kerosene	163	80.1	181	225.5	427	180.3	163	154.2	162	198.2	268	204.4
Gas oil/diesel oil	4,788	112.9	3,988	188.6	4,315	176.9	4,602	153.3	5,997	164.8	5,517	194.1
Fuel oil <i>(4)</i>	5,892	60.9	5,275	111.1	5,054	104.1	5,382	108.9	6,240	124.2	7,578	131.8
Lubricating oils	111	305.9	197	390.5	378	354.4	426	278.5	395	316.9	381	334.4
Petroleum coke	644	47.4	683	48.1	770	68.5	844	63.0	836	54.2	1,094	51.0
Other	198	147.5	44	454.6	67	341.8	39	484.9	79	287.3	77	316.0
Total refined petroleum products	19,418	95.9	19,802	167.1	22,874	161.0	22,284	145.0	23,456	159.2	26,929	183.3
Exports (f.o.b)												
Crude oil	68,114	81.3	71,615	135.6	82,269	128.0	79,951	123.0	69,031	133.0	61,386	154.0
Refined petroleum products (1)												
Petroleum gases (2)	5,564	100.2	5,398	149.4	3,713	170.4	4,759	140.4	4,645	165.0	3,814	216.1
Motor spirit and aviation spirit	5,922	108.2	4,625	194.5	4,335	167.5	4,467	165.6	4,057	191.0	6,600	218.4
Other light oils and spirit (3)	2,339	116.4	3,554	168.9	3,419	164.4	3,648	161.3	4,952	177.0	5,125	217.3
Aviation turbine fuel (kerosene)	722	103.1	521	184.1	440	172.6	634	153.6	590	173.0	983	221.4
Other kerosene	147	164.9	194	239.7	278	218.8	407	194.8	400	205.4	524	255.4
Gas oil/Diesel oil	5,550	98.6	6,936	162.6	5,699	147.1	7,718	134.2	7,345	153.1	6,995	186.8
Fuel oil (4)	5,326	64.0	6,205	108.5	6,238	94.5	7,039	95.3	7,859	109.6	10,623	103.7
Lubricating oils	252	215.5	337	299.4	824	300.3	705	276.1	880	265.2	788	272.4
Petroleum coke	641	153.6	502	233.3	504	228.4	588	188.5	482	198.2	520	188.9
Other	195	164.4	198	173.3	212	193.3	193	181.7	204	174.8	215	177.9
Total refined petroleum products	26,658	99.1	28,469	158.1	25,661	151.5	30,160	139.9	31,414	157.7	36,188	179.4

G.3 Imports and exports of crude oil and petroleum products (continued)

	2005		2006		2007		2008		2009		2010	
	Quantity		Quantity		Quantity		Quantity		Quantity		Quantity	
	(Thousand	Value per										
	tonnes)	tonne (£)										
Imports (c.i.f.)												
Crude oil	54,050	213.1	55,780	261.6	52,394	264.5	52,159	394.1	50,675	286.7	50,457	386.4
Refined petroleum products (1)												
Petroleum gases (2)	806	458.0	820	1,008.1	1,198	316.8	1,045	445.3	532	309.0	565	449.5
Motor spirit and aviation spirit	2,773	291.7	3,322	317.5	3,163	380.9	3189*	495.00*	3,003	388.00*	3,489	502.2
Other light oils and spirit (3)	1,788	277.3	2,154	316.0	2,577	327.5	1,472	464.4	960	379.8	819	485.6
Aviation turbine fuel (kerosene)	9,551	306.6	7,341	354.3	7,114	342.0	7,527	541.4	7,325	353.1	6,739	461.4
Other kerosene	97	324.3	322	336.2	625	354.3	615	537.6	851	357.7	892	474.8
Gas oil/diesel oil	5,688	290.5	8,520	321.4	8,781	326.7	8,481	495.5	8,175	349.9	9,763	455.6
Fuel oil (4)	6,950	167.5	8,468	196.8	9,227	225.2	4,410	326.5	4,327	256.3	3,967	349.1
Lubricating oils	426	408.2	501	542.5	592	457.6	493	691.6	461	578.7	586	690.7
Petroleum coke	973	53.9	880	70.5	486	92.7	884	112.9	813	90.5	728	106.7
Other	133	281.7	154	355.4	376	253.6	371	328.1	368	293.8	154	493.3
Total refined petroleum products	29,187	264.3	32,483	309.9	34,138	305.8	28,487	468.2	26,815	335.8	27,701	445.0
Exports (f.o.b)												
Crude oil	52,634	213.9	49,320	268.9	46,779	269.3	43,192	385.4	43,350	287.0	42,084	380.3
Refined petroleum products (1)												
Petroleum gases (2)	3,729	245.5	2,499	299.6	2,422	316.5	3,270	400.2	2,795	309.5	2,611	456.8
Motor spirit and aviation spirit	7,250	273.1	7,060	329.9	7,676	316.9	8,096	445.5	9,326	358.6	9,989	487.2
Other light oils and spirit (3)	5,811	251.2	5,102	325.0	4,953	343.2	4,020	453.7	3,508	354.6	3,146	485.6
Aviation turbine fuel (kerosene)	1,268	317.0	1,491	362.8	1,765	350.8	2,297	556.1	2,510	366.2	2,039	483.0
Other kerosene	481	338.9	381	395.5	368	393.9	262	519.9	371	370.6	386	478.1
Gas oil/Diesel oil	6,382	265.0	5,976	300.5	5,335	301.3	6,615	458.0	7,229	317.8	7,837	426.2
Fuel oil (4)	10,684	140.8	9,945	167.8	8,894	187.9	9,599	284.8	8,393	239.1	6,638	303.2
Lubricating oils	750	357.8	858	420.7	642	478.9	572	757.9	623	611.8	717	664.2
Petroleum coke	544	214.5	486	261.4	529	322.1	496	473.2	491	406.6	647	539.4
Other	287	188.8	240	202.6	148	268.6	155	328.1	123	348.9	79	533.9
Total refined petroleum products	37,188	230.0	34,037	277.0	32,733	289.0	35,381	413.6	35,370	323.4	34,090	439.3

G.3 Imports and exports of crude oil and petroleum products (continued)

	2011		2012	
	Quantity		Quantity	
	(Thousand	Value per	(Thousand	Value per
	tonnes)	tonne (£)	tonnes)	tonne (£)
Imports (c.i.f.)				
Crude oil	53,657	523.5	55,357	537.1
Refined petroleum products (1)				
Petroleum gases (2)	546	565.2	507	594.1
Motor spirit and aviation spirit	2,989	636.1	3,724	664.1
Other light oils and spirit (3)	924	624.7	827	620.7
Aviation turbine fuel (kerosene)	6,904	620.1	6,507	650.4
Other kerosene	701	620.9	1,269	633.3
Gas oil/diesel oil	10,096	613.1	12,915	624.2
Fuel oil (4)	4,087	462.5	2,666	483.4
Lubricating oils	516	908.2	480	950.6
Petroleum coke	519	192.6	622	150.8
Other	180	582.9	273	519.6
Total refined petroleum products	27,461	592.0	29,791	616.5
Exports (f.o.b)				
Crude oil	34,356	498.4	33,950	532.2
Refined petroleum products (1)				
Petroleum gases (2)	2,362	549.1	2,271	564.9
Motor spirit and aviation spirit	10,728	639.4	8,767	660.9
Other light oils and spirit (3)	2,639	619.7	3,344	636.0
Aviation turbine fuel (kerosene)	1,561	622.6	1,473	692.1
Other kerosene	770	637.3	345	669.1
Gas oil/Diesel oil	9,099	558.8	8,836	599.3
Fuel oil (4)	7,135	413.2	5,987	424.9
Lubricating oils	886	822.0	710	836.1
Petroleum coke	840	542.0	925	468.9
Other	81	593.4	134	515.1
Total refined petroleum products	36,100	568.4	32,793	591.3

Source: H.M. Revenue and Customs

⁽¹⁾ Excludes pitch, mineral tars and natural gas.

⁽²⁾ Includes small quantities of unidentified non-petroleum gases.

⁽³⁾ Includes wide-cut gasoline, white spirit and petroleum naphthas.

⁽⁴⁾ Includes partly refined oil for further processing.

^{*} DECC estimates

G.4 Imports and exports of crude oil by country

		1999			2000			2001		:	2002			2003			2004	
	Quantity			Quantity		-	Quantity			Quantity			Quantity	2000		Quantity	200.	
	(Thousand	Value \	/alue per	(Thousand	Value	Value per	(Thousand	Value \	/alue per	(Thousand	Value \	/alue per	(Thousand	Value \	/alue per	(Thousand	Value	Value per
	tonnes)	(£million)	tonne (£)	tonnes)		tonne (£)	tonnes)	(£million)	tonne (£)	,	(£million)	tonne (£)	tonnes)	(£million)	tonne (£)	tonnes)		tonne (£)
Imports (c.i.f.)																		
Middle East																		
Abu Dhabi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dubai	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	1,026	65.1	63.47	1,573	220.0	139.90	623	72.3	116.05	324	41.7	128.68	762	89.7	117.73	1,363	190.7	139.91
Other countries	973	62.3	64.05	233	25.0	107.40	564	56.6	100.35	846	90.4	106.80	164	21.6	131.94	247	35.5	143.53
Total Middle East	1,999	127.4	63.76	1,806	245.0	135.71	1,187	128.9	108.59	1,170	132.1	112.85	926	111.3	120.24	1,611	226.2	140.47
Algeria	1,045	95.4	91.28	1,992	319.8	160.56	1,335	182.7	136.82	2,025	276.6	136.61	1,308	188.9	144.41	1,477	249.9	169.20
Angola	-	-	-	-	-	-	468	65.3	139.40	127	16.4	129.05	-	-	-	-	-	-
Latvia	342	27.7	80.96	27	2.9	105.49	80	9.7	121.08	49	6.6	134.58	16	2.5	151.26	-	-	-
Libya	-	-	-	155	27.8	179.19	-	-	-	-	-	-	129	16.4	127.15	155	23.5	151.63
Lithuania	26	2.5	93.36	-	-	-	-	-	-	86	10.2	119.46	100	11.5	114.72	-	-	-
Mexico	875	57.7	66.02	782	95.2	121.63	821	85.4	104.05	820	84.7	103.39	749	79.9	106.76	323	32.0	99.08
Netherlands	1,159	102.3	88.21	-	-	-	11	1.1	98.3	36	4.5	124.76	33	4.2	127.92	-	-	-
Nigeria	460	34.7	75.50	252	40.9	162.54	130	20.6	158.15	293	37.3	127.28	129	16.5	127.94	249	53.1	213.25
Norway	22,218	1,791.0	80.61	27,523	3,809.3	138.40	27,657	3,587.4	129.71	29,057	3,561.5	122.57	33,560	4,571.7	136.23	39,938	6,222.1	155.79
Russia	584	44.1	75.45	1,487	186.3	125.28	2,920	360.6	123.48	3,568	423.7	118.74	3,924	501.8	127.86	7,489	1,106.5	147.74
Venezuela	1,071	50.2	46.86	671	58.0	86.48	307	23.8	77.53	383	36.2	94.57	399	33.9	84.83	1,254	106.2	84.70
Other countries	3,372	186.2	55.21	2,204	314	142.6	2,780	361.2	129.93	3,301	403.3	122.18	3,106	402.0	129.43	3,599	474.0	131.70
Total Non Middle East	31,152	2,391.8	76.78	35,092	4,854	138.3	36,509	4,697.6	128.67	39,743	4,860.9	122.31	43,454	5,829.3	134.15	54,484	8,267.3	151.74
Total imports	33,151	2,519.2	75.99	36,898	5,099	138.2	37,696	4,826.5	128.04	40,913	4,993.0	122.04	44,379	5,940.6	133.86	56,095	8,493.5	151.41
Exports (f.o.b.)(1)																		
European Union																		
Belgium and Luxembourg	1,189	97.2	81.78	966	116.3	120.40	383	51.1	133.41	434	53.0	122.27	478	69.1	144.66	126	17.8	140.97
Denmark	-	-	-	-	-	-	70	9.9	140.00	64	8.0	124.00	57	7.2	128.00	-	-	-
Finland	701	52.7	75.19	816	105.0	128.76	1,058	139.2	131.58	343	44.7	130.60	328	41.8	127.49	240	41.9	174.68
France	11,326	881.9	77.87	10,330	1,376.4	133.24	12,637	1,640.6	129.82	11,018	1,353.0	122.80	11,139	1,501.8	134.83	9,454	1,461.2	154.56
Germany	11,661	977.4	83.82	11,531	1,560.9	135.37	14,550	1,892.8	130.09	9,468	1,172.4	123.82	9,354	1,250.2	133.65	11,472	1,807.7	157.57
Greece	74	6.2	83.63	-	-	-	-	-	-	134	15.6	116.15	-	-	-	-	-	-
Irish Republic	70	3.6	51.00	-	-	-	163	21.1	129.64	943	116.9	123.98	785	102.7	130.86	641	98.6	153.77
Italy	1,234	92.1	74.62	471	53.1	112.83	683	83.7	122.45	962	118.0	122.65	-	-	-	281	52.6	187.00
Netherlands	11,354	933.0	82.18	13,771	1,908.4	138.58	22,314	2,858.9	128.12	22,046	2,664.7	120.87	17,583	2,367.9	134.67	13,939	2,172.9	155.89
Portugal	1,403	106.5	75.90	694	87.2	125.61	757	98.2	129.74	998	122.3	122.55	1,071	136.7	127.63	574	86.1	150.09
Spain	3,655	286.4	78.35	2,090	277.9	132.94	2,037	262.6	128.95	911	104.3	114.54	837	115.9	138.47	177	24.9	140.87
Sweden	635	51.6	81.25	315	40.4	128.09	1,526	190.5	124.85	2,457	300.6	122.33	1,812	246.1	135.83	2,159	338.7	156.85
Poland(2)	-																	
Total EU	43,302	3,488.5	80.56	40,984	5,525.6	134.82	56,177	7,248.4	129.03	49,777	6,073.5	122.01	43,443	5,839.7	134.42	39,064	6,102.5	156.22
Canada	623	42.1	67.58	1,577	199.3	126.44	3,816	452.3	118.55	4,950	594.9	120.17	3,136	397.9	126.87	2,405	340.5	141.57
Norway	99	5.6	56.39	85	7.9	92.58	385	53.0	137.64	77	9.7	127.12	287	37.8	131.69	648	94.4	145.76
U.S.A.	20,259	1,688.6	83.35	26,365	3,591.8	136.23	21,587	2,740.8	126.96	23,514	2,977.3	126.61	21,049	2,775.1	131.84	18,508	2,815.3	152.11
South Korea Other Non EU	3,832	311.7	81.36	2,604	383.1	147.15	303	39.6	130.61	1,632	178.3	109.28	1,114	132.7	119.07	760	101.4	133.46
Total exports	68.114	5,536.6	81.28	71,615	9.707.8	135.56		10.534.1			9,833.7	123.00		9.183.2	133.03		9.454.1	154.01

G.4 Imports and exports of crude oil by country (continued)

		2005			2006		-	2007			0000			2009		-	0040	
	Quantity	2005		Quantity	2006		Quantity	2007		Quantity	2008		Quantity	2009		Quantity	2010	
	(Thousand	Value V	/alue per	(Thousand	Value V	alua par	(Thousand	Value V	alua par	(Thousand	Value	Value per	(Thousand	Value	Value per	(Thousand	Value	Value per
	tonnes)	(£million) to		tonnes)	(£million) to		tonnes)	(£million) to		tonnes)		tonne (£)	tonnes)	(£million)	tonne (£)	*	(£million)	tonne (£)
Imports (c.i.f.)	,	(/			(/	- (- /		(, , , , , , , , , , , , , , , , , , ,	- (-7		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(()		()	
Middle East																		
Abu Dhabi	-	_	_	_	_	_	_	_	-	_	_	-	_	_	_	_	-	_
Dubai	-	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_		_
Iran	-	_	-	_	-	-	_	_	-	40	12.3	306.58	562	164.7	293.10	432	147.9	342.11
Kuwait	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	1,358	293.0	215.85	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-
Other countries	489	110.0	224.97	979	242.4	247.60	164	30.2	184.00	255	97.7	382.74	241	59.3	246.41	-	-	-
Total Middle East	1,847	403.0	218.26	979	242.4	247.60	164	30.2	184.00	295	110.0	372.39	803	224.0	279.10	432	147.9	342.11
Algeria	1,157	294.4	254.51	2,178	617.5	283.48	2,523	734.2	290.96	1,586	718.9	453.16	1,194	306.6	256.86	1,230	509.9	414.71
Angola	-	0.0	-	-	0.0	-	498	140.1	281.55	1,375	568.1	413.16	953	265.3	278.36	111	37.0	331.95
Latvia	-	0.0	-	-	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Libya	548	120.9	220.52	1,126	302.2	268.45	927	235.0	253.50	2,047	882.6	431.19	1,872	532.6	284.44	2,727	1,070.9	392.70
Lithuania	-	0.0	-	-	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	168	20.3	121.22	165	30.3	183.58	442	100.6	227.38	356	119.8	336.77	-	-	-	-	-	-
Netherlands	17	4.3	253.00	22	5.7	261.84	49	15.0	307.93	91	32.5	358.86	38	11.5	306.61	75	30.2	404.30
Nigeria	388	95.4	245.93	539	141.3	262.39	885	250.4	283.05	1,991	790.7	397.09	1,842	545.1	295.91	1,738	676.9	389.55
Norway	40,072	8,754.3	218.47	39,699	10,484.7	264.11	37,474	9,968.0	266.00	35,114	13,758.7	391.83	35,007	10,141.2	289.69	36,398	14,074.5	386.68
Russia	6,986	1,443.3	206.61	7,275	1937.4	266.30	5,400	1,419.9	262.95	5,609	2,184.4	389.47	4,068	1,155.8	284.10	3,302	1,277.7	386.93
Venezuela	1,449	151.2	104.38	1,915	339.4	177.24	1,366	237.6	174.01	835	213.1	255.20	965	217.7	225.56	650	186.0	286.20
Other countries	1,419	228.2	160.81	1,883	488.5	259.35	2,667	729.8	273.68	2,859	1178.0	411.98	3,933	1128.0	286.80	3,794	1,483.3	390.93
Total Non Middle East	52,203	11,112.5	212.87	54,801	14,346.9	261.80	52,230	13,830.6	264.80	51,863	20,446.7	394.24	49,872	14,303.8	286.81	50,024	19,346.3	386.74
Total imports	54,050	11,515.5	213.05	55,780	14,589.3	261.55	52,394	13,860.8	264.55	52,159	20,556.8	394.12	50,675	14,527.8	286.69	50,457	19,494.2	386.35
Exports (f.o.b.)(1)																		
European Union Belgium and Luxembourg	135	31.8	235.65	152	45.3	298.79	155	45.5	293.41	332	124.0	373.62	46	13.2	287.76	354	139.2	392.66
Denmark	133	31.0	233.03	93	23.6	254.00	100	45.5	293.41	254	102.9	405.22	505	148.4	293.90	678	255.7	377.21
Finland	560	139.3	248.75	892	232.8	261.11	1,568	401.7	256.25	253	101.3	400.09	303	140.4	293.90	070	200.7	377.21
France	5,409	1,148.2	212.29	7,336	1,966.5	268.06	5,461	1,416.3	259.33	3,171	1,201.3	378.86	2,757	799.1	289.87	3,613	1385.8	383.55
Germany	13,150	2,869.8	218.23	11,095	3,002.2	270.60	9,226	2,530.7	274.29	11,662	4,470.9	383.38	7,786	2,219.2	285.04	9,190	3513.7	382.32
Greece	10,100	2,000.0	210.20	- 11,000	0,002.2	270.00	5,225	2,000.7	21 4.20	- 11,002	-,-,-,-,-	-	7,700	2,210.2	200.04	5,155	-	-
Irish Republic	798	169.4	212.24	102	25.6	252.11	208	54.2	261.32	170	37.2	219.01	236	60.9	257.93	477	179.6	376.61
Italy	1,577	341.5	216.59	1,251	337.5	269.83	650	175.0	269.13	537	196.3	365.42	-	-	201.00	263	104.7	398.56
Netherlands	12,302	2,668.0	216.87	11,644	3,154.2	270.89	13,093	3,536.0	270.06	12,218	4,827.4	395.12	17,192	4,971.4	289.17	15,737	5967.0	379.17
Portugal	344	73.0	212.34	618	181.1	293.05	85	24.4	288.00		-	-	163	45.1	276.72	80	30.5	380.00
Spain	402	92.0	228.54	84	22.0	263.00	596	163.5	274.25	1,018	383.6	376.59	1,101	307.9	279.55	332	122.9	369.66
Sweden	1,131	235.0	207.88	1,113	300.3	269.77	769	207.7	270.29	713	281.7	395.11	574	157.8	275.08	1,484	558.6	376.40
Poland(2)	87	17.1	195.89	339	82.5	243.43	420	107.9	256.99	243	88.6	365.33	323	91.8	284.55	610	248.4	407.10
Total EU	35,896	7785.3	216.89	34,718	9,373.9	270.00	32,231	8,662.9	268.78	30,570	11,815.3	386.49	30,682	8,814.9	287.30	32,820	12506.2	381.06
Canada	1,711	318.4	186.15	2,404	651.0	270.76	1,239	300.3	242.38	584	250.7	429.49	570	172.5	302.57	611	221.0	362.00
Norway	948	208.1	219.40	301	78.2	259.80	1,222	359.5	294.27	407	119.6	293.83	355	102.4	288.36	344	130.7	380.03
U.S.A.	13,554	2854.9	210.62	10,980	2,914.6	265.43	11,471	3,101.4	270.37	10,452	3,930.9	376.08	10,294	2,934.4	285.06	7,475	2811.4	376.09
South Korea	-	-	-	-	-	-	-	-	-	609	322.5	529.88	522	128.3	245.59	-	-	-
Other Non EU	525	90.9	173.10	916	245.0	267.37	617	173.9	282.05	570	208.7	366.13	926	290.4	313.59	835	336.4	402.94
Total exports	52,634	11257.5	213.88	49,320	13,262.7	268.91	46,779	12,598.0	269.31	43,192	16,647.7	385.43	43,350	12,442.9	287.04	42,084	16005.7	380.33

G.4 Imports and exports of crude oil by country (continued)

		2011			2012	
	Quantity	2011		Quantity	2012	
		Value V	alua nas		Value V	alua nas
	(Thousand	Value V		(Thousand	Value V	
	tonnes)	(£million) to	nne (£)	tonnes)	(£million) to	nne (£)
Imports (c.i.f.)						
Middle East						
Abu Dhabi						
Dubai						
Iran	692	330.2	476.93	165	83.2	505.38
Kuwait						
Oman						
Saudi Arabia	144	79.4	550.04	539	276.3	512.97
Other countries	269	141.7	526.95	79	44.2	561.20
Total Middle East	1,106	551.2	498.64	782	403.7	516.23
Algeria	2,514	1,364.5	542.65	3,299	1,887.4	572.11
Angola	465	236.2	507.48	1,522	780.2	512.59
Latvia						
Libya	741	366.5	494.43	2,968	1,622.8	546.77
Lithuania						
Mexico						
Netherlands	73	36.4	501.88	50	26.2	521.37
Nigeria	3,494	1,865.9	533.96	6,808	3,668.2	538.83
Norway	35,790	18,808.5	525.52	27,814	15,028.9	540.33
Russia	4,399	2,316.1	526.51	6,329	3,321.2	524.73
Venezuela	672	242.8	361.14	707	270.3	382.45
Other countries	4,402	2,298.9	522.26	5,078	2,723.0	536.28
Total Non Middle East	52,552	27,535.8	523.98	54,575	29,328.4	537.39
Total imports	53,657	28,087.1	523.45	55,357	29,732.1	537.10
Exports (f.o.b.)(1)						
European Union						
Belgium and Luxembourg	581	298.9	513.99	122	67.6	555.15
Denmark	430	217.4	505.90	248	130.4	525.05
Finland	400	217.4	000.00	240	100.4	020.00
France	3,910	1,978.0	505.85	2,920	1,592.7	545.43
Germany	7,340	3,686.6	502.24	9,007	4,832.4	536.50
Greece	7,540	3,000.0	302.24	3,007	4,002.4	330.30
Irish Republic	753	420.0	557.44	2	1.0	419.08
Italy	1,111	559.8	503.75	15	7.3	497.37
Netherlands	11,563	5,664.7	489.89	13,331	7.131.6	534.98
Portugal	52	29.2	564.75	0	0.0	2358.33
Spain	156	85.0	543.93	83	42.6	510.53
Sweden	1,135	577.5	509.03	1,570	838.7	534.31
Poland(2)	1,133	581.5	460.33	1,370	030.7	334.31
Total EU	28,295	14098.5	498.27	27,299	14644.4	536.45
Canada	28,295 376	196.4	521.92	317	160.8	506.56
Norway	376 158	75.4	477.52	236	120.8	512.75
U.S.A.	4.437	75.4 2138.9	482.04	1,688	841.2	498.40
South Korea	4,437 272	152.9	563.29	4,128	2154.3	521.82
Other Non EU	272 818	460.9	563.29 563.21	4,128 282	2154.3 146.2	521.82 518.58
	34,356	17122.9	498.40	33,950		
Total exports	34,330	17122.9	430.40	33,330	18067.7	532.19

Source: HM Revenue and Customs

⁽¹⁾ Includes re-exports.(2) Poland Joined the EU in May 2004, before this time any data for Poland is included in the Non EU category

G.5 Imports and exports of solid fuel

		Imports	(1)			Expo	rts	
2001	Steam	Coking A	. ,	Other	Steam	Coking A		Other
2001	coal	coal		id fuel	coal	coal		id fuel
European Union								
•	6	_	_	56	_	_	68	1
Belgium/Luxembourg	U	-	-	-	12	-	4	-
Denmark	-	-	-			-		
Finland	-	-	-	-	-	-	-	36
France	-	-	-	7	9	-	78	29
Germany	-	-	-	52	2	-	22	18
Irish Republic	64	-	9	-	210	4	24	25
Italy	-	-	-	-	-	-	-	5
Netherlands (2)	150	-	7	-	1	-	1	12
Portugal	-	-	-	-	-	-	-	-
Spain	-	-	-	1	-	-	12	-
Sweden	5	-	-	-	-	_	4	55
Other countries	_	_	_	-	_	_	_	_
Total European Union	224	-	16	116	234	4	213	181
Australia	2,283	4,777	16	-		<u>-</u>		-
	2,200	1,182	-		_	_	_	_
Canada		1,102		-	-	-	-	-
Colombia	6,722	-		-	-	-	-	-
Indonesia	50	-	-	-	-	-	-	-
Norway	23	-	1	1	63	-	26	180
People's Republic of China	295	-	410	48	-	-	-	-
Poland	1,183	-	52	-	-	-	-	-
Republic of South Africa	10,139	29	91	-	-	-	1	-
Russia	3,894	-	1	-	-	-	-	-
United States of America	857	1,735	18	-	-	-	-	-
Venezuela	56	_	-	-	_	_	_	-
Vietnam	-	_	92	_	_	_	_	_
Other countries	1,315	_	81	_	5	_	4	33
Total all countries	27,041	7,723	778	165	301	4	244	394
Value of imports (cif)/export (fob) (£m) (3)	839	285	34	14	19	0	13	26
Value per tonne (£)	32	37	44	64	47	67	66	66
2002								
European Union								
Belgium/Luxembourg	-	-	2	86	1	-	58	1
Denmark	-	-	-	-	13	-	5	-
Finland	-	-	-	-	-	-	-	38
France	5	-	12	12	2	-	61	114
Germany	10	-	-	15	32	-	15	50
Irish Republic	32	_	14	12	214	2	27	34
Italy		_	_	-	_	_	1	1
Netherlands (2)	226	_	31	96	_		2	11
	220	-		30			-	1
Portugal	-	-	-	-	-	-	-	1
Spain	9	-	-	-	-	-	-	
Sweden	25	-	-	-	3	-	6	51
Other countries	-	-	-	-	-	-	-	-
Total European Union (5)	307	-	59	220	264	2	175	300
Australia	682	4,229	182	1	-	-	-	-
Canada	-	750	-	-	-	-	-	-
Colombia	3,518	-	29	-	-	-	-	-
Indonesia	45	-	-	-	-	-	-	-
Norway	163	-	1	-	74	-	14	153
People's Republic of China	208	-	80	41	-	-	-	-
Poland	1,558	1	38	25	_	_	-	_
Republic of South Africa	9,608	-	267	-	_	_	_	_
	3,563	48	757	57		_	_	
Russia				51	-	-	-	-
United States of America	252	1,286	29	-	-	-	-	-
Vietnam	-	-	86	-	-	-	-	-
Other countries	917	-	23	26	3	-	1	23
Total all countries	20,821	6,315	1,550	370	341	2	191	476
Value of imports (cif)/export (fob) (£m) (3)	588	240	53	24	19	0	11	31

G.5 Imports and exports of solid fuel (continued)

		Imports	(1)			Ехро	rts	
2003	Steam	Coking An		Other	Steam	Coking A		Other
	coal	coal	so	lid fuel	coal	coal	sol	lid fuel
European Union								
Belgium/Luxembourg	-	-	12	65	-	-	79	3
Denmark	-	-	-	-	13	-	-	-
Finland	-	-	-	-	-	-	-	41
France	5	-	14	14	-	-	52	37
Germany	-	-	2	14	1	-	-	1
Greece	-	-	-	-	-	-	2	-
Irish Republic	46	-	11	11	267	2	35	38
Italy	-	14	-	11	-	-	-	-
Netherlands (2)	243	-	3	41	-	-	-	2
Spain	21	-	-	-	-	-	-	-
Sweden	-	-	-	8	-	-	5	47
Other countries	-	-	-	-	_	-	1	1
Total European Union (5)	314	14	41	162	281	2	174	170
Australia	1,162	4,409	-	-	-	-	-	-
Canada	_	839	-	-	-	-	1	-
Colombia	3,006	158	-	8	-	-	-	_
Indonesia	402	-	-	-	-	_	_	_
Latvia	1,441	_	_	-	-	_	_	-
Norway	145	_	_	15	75	_	3	121
People's Republic of China	170	_	40	470	-	_	-	-
Poland	1,896	_	6		_	_	_	_
	11,649	433	110	_	_	_	_	_
Republic of South Africa	3,288	98	14	181	_	_	_	_
Russia	167	1,089	45	101		_	_	
United States of America	41	1,003	-	_	_	_	_	_
Venezuela	41	•	45	-	_	-	-	_
Vietnam	772	- 00	45 17	150	-	-	2	-
Other countries	24,452	80 7,120	319	150 986	3 359	2	181	291
Total all countries								
Value of imports (cif)/export (fob) (£m) (3)	653	256	15	71	20	0	13	21
Value per tonne (£)	27	36	48	72	55	90	71	71
2004								
European Union			_					_
Belgium/Luxembourg	6	-	5	18	-	-	65	2
Denmark	-	-	-	1	1	-	-	-
Estonia (4)	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	36
France	32	-	14	8	-	-	51	36
Germany	8	-	5	50	-	-	8	5
Irish Republic	34	-	6	8	346	5	25	33
Italy	-	-	-	37	-	-	-	3
Latvia (4)	-	-	-	5	-	-	-	-
Netherlands (2)	183	-	10	38	-	5	4	12
Poland (4)	636	-	-	18	-	-	-	-
Portugal	8	-	-	-	-	-	-	-
Spain	24	-	-	-	8	-	-	-
Sweden	-	-	-	19	7	-	-	47
Other countries	1	-	-	-	-	-	1	1
Total European Union (5)	932	-	40	199	362	9	154	175
Australia	2,035	4,140	-	25	-	-	-	-
Canada	25	715	-	18	-	-	1	-
Colombia	3,630	-	-	53	-	-	-	-
Indonesia	1,458	-	-	-	-	-	-	-
Norway	138	-	-	2	74	-	13	56
People's Republic of China	190	-	43	432	-	-	-	-
Republic of South Africa	10,039	-	105	-	-	-	-	-
Russia	9,711	148	73	142	-	-	-	-
United States of America	717	1,342	2	-	-	-	-	-
Venezuela	39	-	-	-	-	_	_	-
Vietnam	-	-	23	-	-	-	-	-
				470	2		2	6
	569	-	-	179	3	-	2	
Other countries	569 29,483	6,345	320	1,050	440	9	170	237
		6,345				9		

G.5 Imports and exports of solid fuel (continued) Thousand tonnes

		Imports	(1)			Expo	nousand t	
2005	Steam	Coking An	,	Other	Steam (Coking A		Other
	coal	coal		id fuel	coal	coal		id fuel
European Union								
Austria	-	-	-	-	-	-	-	5
Belgium/Luxembourg	-	-	14	20	_	-	84	2
Czech Republic	-	-	-	1	_	-	-	-
Denmark	_	-	_	-	4	_	_	-
Estonia (4)	15	_	_	-	-	_	_	_
Finland		_	_	_	_	_	_	36
France	_	_	4	_	1	_	32	20
Germany	12		4	41	1	_	-	5
•	24	_	14	8	280	15	27	25
Irish Republic	24	_		5	200	15	21	20
Italy Latvia <i>(4)</i>	90	28	-	3	-	-	-	-
, ,		20	-	70	-	-	-	- 44
Netherlands (2)	197	-	-	70	-	-	3	14
Poland (4)	647	-	-	24	-	-	-	1
Spain	41	-	-	3	-	-	-	
Sweden	-	-	-	36	3	-	2	53
Other countries	1	-	-	1	1	-	-	1
Total European Union (5)	1,027	28	37	209	290	15	148	162
Australia	808	3,499	156	-	-	-	-	-
Canada	-	1,084	-	-	-	-	1	-
Colombia	3,289	-	-	-	-	-	-	-
Indonesia	1,616	-	-	-	-	-	-	-
Norway	-	-	-	-	65	-	20	46
People's Republic of China	110	-	25	367	-	-	-	-
Republic of South Africa	12,980	-	49	-	-	-	-	-
Russia	16,748	697	76	125	-	-	-	-
United States of America	299	1,210	-	-	-	-	-	-
Other countries	225		-	27	8	-	3	1
Total all countries	37,101	6,519	343	728	363	15	172	209
Value of imports (cif)/export (fob) (£m) (3)	1,436	418	19	86	25	2	13	26
	39	64	56	118	70	113	76	125
Value per tonne (£)								.20
2006								
European Union			2	26	•		e E	1
Belgium/Luxembourg	-	-	2	26	3	-	65	
Czech Republic	- 40	-	-	-	1	-	-	-
Denmark	10	-	-	-	5	-	-	-
Estonia (4)	37	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	20
France	3	-	2	-	-	-	24	23
Germany	44	-	6	35	-	-	4	11
Irish Republic	16	-	3	7	248	1	24	18
Latvia (4)	384	-	-	-	-	-	-	-
Netherlands (2)	188	-	-	42	-	-	3	22
Poland (4)	856	-	-	31	-	-	-	-
Spain	46	-	-	-	64	-	-	-
Sweden	-	-	-	29	-	-	-	3
Other countries	-	-	-	10	-	-	-	-
Total European Union (5)	1,584	-	13	180	320	1	121	97
Australia	143	3,914	-	-	-	-	-	-
Canada	-	1,282	-	-	-	-	1	-
Colombia	3,798	-	-	-	_	-	-	-
Iceland	-	-	_	-	17	_	_	_
Indonesia	1,895	_	_	-	-	-	_	_
Norway	-,500	20	_	2	9	_	7	24
People's Republic of China	34	-	10	226	-	_		
Republic of South Africa	12,601	_	42	-	=	-	_	_
•	21,950	298	37	168		_	_	_
Russia				100	-	-	-	-
United States of America	692	1,332	- 10	-	-	-	-	-
Vietnam	-	-	19	-	-	-	-	-
Other countries	42 607	28	2	-	2	-	2	1 1 2 2
Total all countries	42,697	6,875	123	577	349	1	131	122
Value of imports (cif)/export (fob) (£m) (3)	1,616	481	9	52	24	-	10	14
	38	70	75	90	70	127	78	115

G.5 Imports and exports of solid fuel (continued) Thousand tonnes

			741		Thousand tonnes Exports					
2007	Steam	Imports Coking Ar		Other	Steam	Coking Ar		Other		
2007	coal	coal		id fuel	coal	coal		id fuel		
European Union										
Belgium/Luxembourg	-	_	1	12	3	_	45	12		
Czech Republic	-	_	-	-	1	_	-	-		
Denmark	7	_	-	-	6	5	_	-		
Estonia (4)	66	_	_	-	-	_	_	_		
Finland	-	_	_	_	_	_	_	40		
France		_	_	3	_	_	13	39		
Germany	8	_	5	29	_	_	3	98		
Irish Republic	22	_	1	6	283	_	23	13		
•	-	7		-	203	_	-	- 13		
Italy Latvia (4)	69	61	_	-	_	_	_	_		
Netherlands (2)	170	01	_	125	1	_	9	22		
* *	130	-		2	-	-	3	-		
Poland (4)		-				-	-			
Spain	11	-	-	-	117	-	-	-		
Sweden	-	-	-	27	-	-	-	9		
Other countries	-	-		-				-		
Total European Union (5)	482	68	8	204	410	5	94	233		
Australia	527	4,218	-	-	-	-	-	-		
Canada	-	1,662	-	-	-	-	5	-		
Colombia	3,800	-	72	-	-	-	-	-		
Indonesia	1,455	-	-	-	-	-	-	-		
Iceland	-	-	-	-	7	-	-	-		
Norway	-	42	-	-	8	4	15	19		
People's Republic of China	175	68	12	550	-	-	-	-		
Republic of South Africa	7,706	-	23	-	-	-	-	-		
Russia	19,692	393	21	159	-	-	-	-		
United States of America	1,121	1,402	-	-	-	-	-	-		
Other countries	-	29	-	21	2	3	2	22		
Total all countries	34,957	7,884	137	933	428	13	116	274		
Value of imports (cif)/export (fob) (£m) (3)	1,470	473	8	121	31	1	10	28		
Value per tonne (£)	42	60	57	130	72	99	85	102		
2008										
European Union	24		2	13	22	123	66	3		
Belgium/Luxembourg	- 24	-	1	-	1	123	00	-		
Czech Republic	8	-	'	-	2	18	-	-		
Denmark		-		-		10				
Finland	-	-	-	-	-	-	-	37		
France	-	-	-	-	1	-	57	93		
Germany	15	-	3	32	-	-	3	93		
Irish Republic	32	-	3	5	313	-	32	16		
Latvia (4)	321	-	-	-	-	-	-	-		
Netherlands (2)	146	-	2	142	103	37	9	-		
Poland (4)	213	-	-	3	-	-	-	-		
Spain	123	-	-	15	217	-	2	3		
Sweden	-	-	-	33	-	-	-	6		
Other countries	-	-	-	-	-	-	-	-		
Total European Union (5)	882	-	11	244	658	178	168	251		
Australia	638	3,303	-	-	-	-	-	-		
Bosnia & Herz.	-	-	-	48	-	-	-	-		
Canada	-	1,412	-	18	-	-	3	-		
Colombia	5,270	-	-	38	-	-	-	-		
Egypt	_	-	-	38	-	-	1	_		
India		_	_	_	1	_	1	_		
Indonesia	2,088	_	_	_	_	_	-	_		
Norway	_,	_	_	_	11		14	38		
•		_	14	63		_		-		
People's Republic of China	4,185	-	12	-	-	-	-	-		
Republic of South Africa	20,641	300			-	-	-	-		
Russia	20,041	300	160	148	-	-	-	-		
Turkey	0.744	1 507	- 16	90	-	-	-	-		
United States of America	2,741	1,527	16	-	-	-	-	-		
Venezuela	8	-	-	-	-	-	-	-		
Other countries	60 36 E4.4	6 5 40	- 242	1 600	2 672	470	1	201		
Total all countries	36,514	6,542	213	688	672	179	188	291		
Value of imports (cif)/export (fob) (£m) (3)	2 701			450	CE	40		44		
value of imports (cir)/export (lob) (EIII) (3)	2,791 76	690 105	28 130	152 222	65 96	12 67	17 88	44 153		

G.5 Imports and exports of solid fuel (continued)

		luar	(4)		Thousand tonnes Exports					
2000	C4	Imports		Othor				O41		
2009	Steam coal	Coking An coal		Other id fuel	coal	Coking Ar coal		Other id fuel		
	Coai	coai	501	iu iuei	Coai	coai	301	iu iuei		
European Union										
Belgium/Luxembourg	15	-	-	2	0	-	43	3		
Denmark	6	-	-	6	0	-	-			
Finland	-	-	-	-	0	-	-	24		
France	-	-	-	-	0	-	7	58		
Germany	14	-	5	8	8	-	0	11		
Irish Republic	67	-	3	6	264	-	48	34		
Latvia (4)	92	-	-	-	-	-	-			
Netherlands (2)	99	-	3	27	0	_	3	1		
Poland (4)	566	-	-	0	6	0	0	(
Portugal	1	_	0	-	0	-	-			
Spain	276	_	-	7	189	_	2			
Sweden	210	_	_	19	0	0	0	9		
Other countries	_	_	0	-	0	-	0	0		
Total European Union (5)	1,136		11	75	468	0	104	141		
	382	2,698			400		0	14		
Australia	302	2,696		-		-	1			
Canada			-			-	1			
Colombia	4,883	-	-	3	-	-	-			
Indonesia	694	-	-	-	-	-	-			
Norway	-	55	-	-	22	5	8	57		
People's Republic of China	597	-	3	0	-	-	0			
Republic of South Africa	2,941	-	13	-	27	-	0			
Russia	17,203	327	180	16	-	-	0			
United States of America	2,896	1,691	0	-	-	-	0			
Venezuela	-	490	-	-	-	-	-			
Other countries	90	-	-	4	8	1	2	1		
Total all countries	30,824	5,474	207	97	526	6	115	199		
Value of imports (cif)/export (fob) (£m) (3)	1,907	702	26	17	61	1	14	35		
Value per tonne (£)	62	128	124	177	117	203	122	177		
2010										
European Union										
Belgium/Luxembourg	5	-	-	7	125	-	41	12		
Denmark	-	0	_	-	4	_	0			
Finland	-	-	_	0	5	-	_	32		
France	_	_	_	3	0	_	4	55		
Germany	18		3	47	9	0	0	55		
Irish Republic	36	1	6	6	350	-	22	35		
•	-		-	-	-	_	-	50		
Latvia (4)	127	-		24	4	-	0	(
Netherlands (2)	563	-	-	4	0	-	0	0		
Poland (4)	303	-	0	4	0	-	0			
Portugal	400	-		- 10		-				
Spain	132	-	4	12	9	-	1			
Sweden	-	-	-	28	25	-	0	6		
Other countries	-	0	0	-	0		0	(
Total European Union (5)	881	1	14	131	532	0	70	196		
Australia	-	3,235	64	-	-	0	0	(
Canada	0	424	-	-	0	-	1	52		
Colombia	5,446	51	6	-	-	-	-			
Indonesia	239	-	-	-	-	-	-			
Norway	69	-	-	-	65	-	15	43		
People's Republic of China	-	-	7	0	-	-	-			
Republic of South Africa	680	-	-	0	19	-	0	50		
Russia	7,850	318	95	59	-	-	0			
United States of America	1,974	2,031	0	0	-	-	0	(
Venezuela	-	-	-	-	-	-	-			
Other countries	-	13	0	0	9	1	3	275		
Total all countries	17,138	6,073	185	191	624	1	90	616		
Value of imports (cif)/export (fob) (£m) (3)	1,104	723	22	29	74	0	12	134		
3porto (0, 0port (100) (2.111) (0)	.,	119			119	272	12	10-		

Value per tonne (£)

G.5 Imports and exports of solid fuel (continued)

Thousand tonnes

		Imports	(1)			Expo		
2011	Steam	Coking Ar		Other		Coking A		Othe
	coal	coal	sc	olid fuel	coal	coal	SC	lid fuel
European Union								
Belgium/Luxembourg	117	-	163	33	31	-	38	3
Denmark	-	-	0	-	8	-	-	
Finland	-	-	-	-	-	-	6	4
France	-	-	-	-	13	-	2	3
Germany	21	-	0	57	85	-	0	19:
Irish Republic	20	3	6	7	242	3	35	2
Latvia (4)	-	-	_	-	-	-	-	
Netherlands (2)	163	_	_	6	2	_	3	
Poland (4)	655	_	_	4	11	_	0	
Portugal	0	_	_	-	0	_	-	
Spain	81	_	14	14	7	_	1	
Sweden	-	_		24	2	_	0	
Other countries	_	_	1	3	33	_	0	
Total European Union (5)	1,056	3	184	148	434	3	85	33
Australia		3,136				0	0	
Canada	_	301	_	_	_	-	2	
Colombia	7,972	-	_	_	_	_	0	
Indonesia	7,072	_	_	0	_	_	-	
	196	_		-	49	_	8	4
Norway	190	-	9	0	45	-	-	*
People's Republic of China	620	-	9	-	6	-		7
Republic of South Africa	11,899		-		-	-	0	,
Russia		211		16		-	0	
United States of America	4,355	1,739	0	0	0	-	0	
Venezuela	-		-	-	-	-	-	
Other countries	19	51	0	0	8	1	2	3
Total all countries	26,117	5,439	193	165	496	3	97	50
Value of imports (cif)/export (fob) (£m) (3)	2,047	883	21	36	62	1	13	100
Value per tonne (£)	78	162	109	216	126	291	137	199
2012								
European Union								
Belgium/Luxembourg	148	-	0	4	20	-	34	2
Denmark	-	-	-	0	0	-	-	
Finland	-	-	-	-	-	-	-	5
France	-	-	0	0	21	-	4	3
Germany	15	-	4	31	0	2	0	6
Irish Republic	27	4	10	11	263	10	33	3
Latvia (4)	-	-	-	-	-	-	-	
Netherlands (2)	190	-	0	6	4	-	-	
Poland (4)	87	-	-	0	18	-	0	
Portugal	-	-	0	-	0	-	0	
Spain	99	-	5	28	21	7	-	
Sweden	_	_	_	24	3	_	0	
Other countries	14	_	1	1	7	_	28	
Total European Union (5)	579	4	20	105	358	19	100	22
Australia	-	2,333		0	-		0	
Canada	134	169	_	-	0	_	1	
Colombia	11,065	-	_	_	-	_		
Indonesia	,000	_	_	-	_	_	_	
Norway	76	_	_	-	32	_	15	4
People's Republic of China	0	-	5	0	32	_	-	-
	495	-	4	0		_	0	5
Republic of South Africa		514	-	46	-	-	0	5
Russia	16,373					-		_
United States of America	8,261	1,918	0	0	0	-	0	3
Venezuela	175	-	-	-	-	-	-	
Other countries	21	29 4 067	- 20	0 151	5 205	2	120	36
Total all countries	37,178	4,967	29	151	395	21	120	36
Value of imports (cif)/export (fob) (£m) (3)	2,456	648	6	30	53	5 236	13	8
	66	130	216	198	135		112	22

Source : H.M. Revenue and Customs

⁽¹⁾ Country of origin basis.

⁽²⁾ Includes extra-EU coal routed through the Netherlands.

⁽³⁾ Value of imports are "cif" (cost, insurance and freight) and value of exports are "fob" (free on board). See technical note for fuller definition.

⁽⁴⁾ Joined the EU on 1 May 2004

⁽⁵⁾ Includes a small quantity from other EU countries

G.6 Physical imports and exports of gas (1)

-																	GWh
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Imports																	
Interconnector via Belgium (2)	-	-	692	471	2,955	4,015	6,645	4,387	25,592	24,108	30,505	6,471	12,174	7,945	13,568	4,032	14,264
Netherlands (3)	-	-	-	-	-	-	-	-	-	-	9,135	76,602	90,563	69,529	87,120	69,001	78,258
Norway (by pipe) (4)	19,804	14,061	9,374	7,020	11,279	12,734	37,886	71,753	95,359	127,895	157,035	225,764	283,722	260,438	276,807	234,194	294,586
Liquefied Natural Gas (LNG) (5) of which from:	-	-	-	-	-	-	-	-	-	5,453	37,576	14,903	8,912	110,579	203,789	270,733	147,879
Algeria			-	-		-	-	-	-	4,575	20,718	6,605	3,113	19,392	11,524	2,647	1,292
Australia			-	-		-	-	-	-	-	-	-	-	812	0	0	0
Egypt		-	-	-	-	-	-	•	-	-	12,465	1,751	0	5,804	1,263	877	143
Nigeria		-	-	-	-	-	-	-	-	-	-	-	-	-	3,674	12,833	468
Norway		-					-	•	-	-	-	-	-	1,862	8,904	9,965	1,709
Qatar		-	-	-	-	-	-	•	-	-	779	2,693	0	61,159	159,984	230,618	144,267
Trindad & Tobago		-	-	-	-	-	-	•	-	878	3,614	3,854	5,799	21,550	16,646	5,816	0
USA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,552	0
Yemen		-	-	-	-	-	-	-	-	-	-	-	-	-	1,794	6,425	0
Total Imports	19,804	14,061	10,066	7,491	14,234	16,749	44,531	76,140	120,951	157,456	234,251	323,740	395,371	448,491	581,284	577,960	534,987
Exports																	
Interconnector via Belgium (2)	-	-	1,761	45,459	94,574	80,846	91,189	122,648	60,060	36,641	60,195	51,390	45,949	62,084	95,932	101,526	50,343
Netherlands (6)	8,936	10,481	10,550	8,816	7,723	5,640	4,837	3,424	2,887	4,261	3,371	6,358	10,389	13,094	15,830	17,544	23,729
Norway (7)	-		-	-		-	-	-	-	-		153	389	266	158	125	49
Republic of Ireland (8)	6,266	11,184	18,776	24,723	32,248	38,129	38,743	40,806	39,084	39,407	47,247	50,972	54,260	54,357	56,266	58,041	57,590
Total Exports	15,202	21,665	31,087	78,998	134,545	124,615	134,769	166,878	102,031	80,309	110,813	108,873	110,987	129,801	168,186	177,236	131,711
Net Imports (9)	-4,602	-7,604	-21,021	-71,507	-120,311	-107,866	-90,238	-90,738	+18,920	+77,147	+123,438	+214,867	+284,384	+318,690	+413,098	+400,724	+403,276

Source: DECC

⁽¹⁾ See paragraph G23.

⁽²⁾ Physical flows of gas through the Bacton-Zeebrugge Interconnector as opposed to the nominated flows used by National Grid.

⁽³⁾ Via the Bacton-Balgzand (BBL) pipeline. Commissioned in November 2006.

⁽⁴⁾ Currently via the Langeled and Vesterled pipelines, the Tampen Link (from Statfjord to the FLAGS pipeline and then to St Fegus) and Gjoa/Vega (to St Fergus via the FLAGS pipeline).

Prior to 2005 includes the Norwegian share of the Frigg field.

⁽⁵⁾ From various sources to the Isle of Grain, Milford Haven (South Hook and Dragon) and Teesside Gasport.

⁽⁶⁾ Direct exports from the Grove, Chiswick, Markham, Minke, Stamford, Windermere and Wingate offshore gas fields using the Dutch offshore gas pipeline infrastructure.

⁽⁷⁾ With effect from September 2007, UK gas from the Blane field to the Norwegian Ula field for injection into the Ula reservoir.

⁽⁸⁾ Includes gas to the Isle of Man for which separate figures are not available.

⁽⁹⁾ A negative figure means the UK was a net exporter of gas.

Annex H

Flow charts

Introduction

H.1 This section brings together the flow charts for individual fuels contained in the main Digest publication. Chart H.1 is for Coal, Chart H.2 is for Petroleum, Chart H.3 is for Natural Gas, Chart H.4 is for Electricity and Chart H.5 is for Renewables. Annual updates will appear in subsequent editions of the main Digest publication and in the Internet version of the Digest on the DECC section of the gov.uk website.

Summary flow chart

H.2 A summary flow chart, UK Energy Flow Chart 2012, is also available on the DECC section of the gov.uk website at:

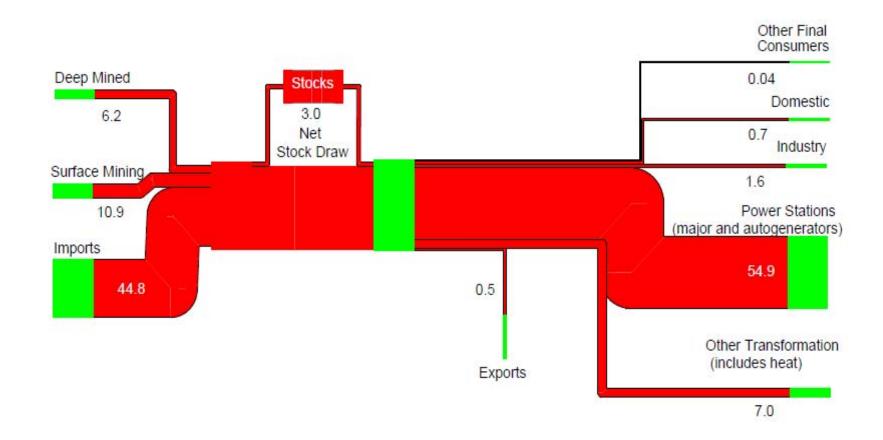
www.gov.uk/government/organisations/department-of-energy-climate-change/series/energy-flow-charts. The summary flow chart updates the last energy flow chart which showed data for 2011. It is based on statistics taken from the main Digest publication, Table 1.1 – Energy Balance 2012. The chart is a simplification of the energy balance figures, illustrating the flow of primary fuels from the point at which they become available from home production or imports (on the left) to their eventual final uses (on the right). They are shown in their original state and after being converted into different kinds of energy by the secondary fuel producers. The flows are measured in million tonnes of oil equivalent, with the widths of the bands approximately proportional to the size of the flow they represent. The flow charts for individual fuels have been produced on a similar basis.

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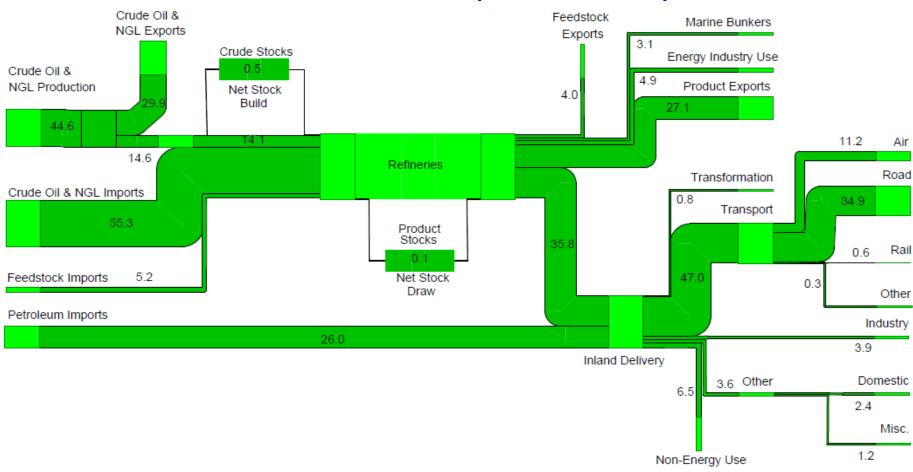
Chart H.1: Coal flow chart 2012 (million tonnes of coal)



Notes:

This flow chart is based on the data that appear in Tables 2.1 and 2.4. Surface mining includes slurry and recovered coal.

Chart H.2: Petroleum flow chart 2012 (million tonnes)

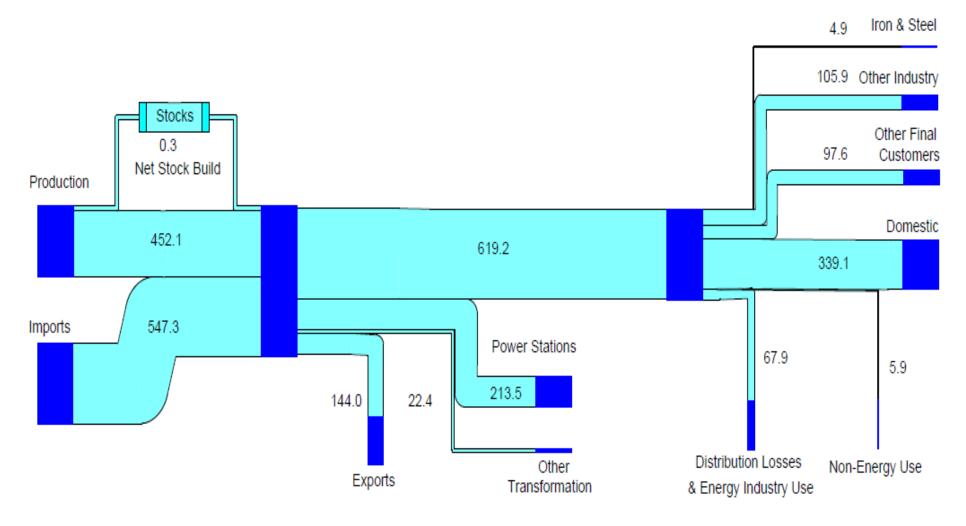


Notes:

This flow chart is based on the data that appear in Tables 3.1 and 3.2.

The numbers on either side of the flow chart will not match due to losses in transformation. Biofuels are not included.

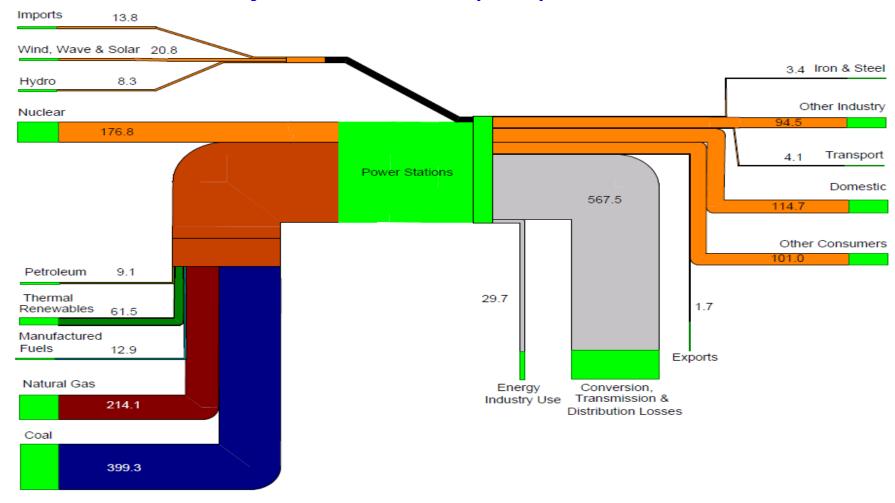
Chart H.3: Natural gas flow chart 2012 (TWh)



Note:

This flow chart is based on the data that appear in Table 4.1, excluding colliery methane.

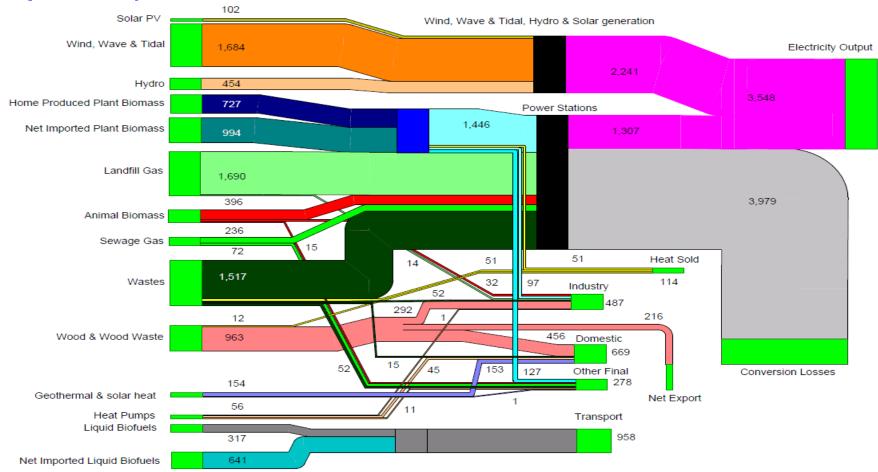
Chart H.4: Electricity flow chart 2012 (TWh)



Notes:

This flow chart is based on the data in Tables 5.1 (for imports, exports, use, losses and consumption) and 5.6 (fuel used). (1) Hydro includes generation from pumped storage while electricity used in pumping is included under Energy Industry Use

Chart H.5: Renewables flow chart 2012 (thousand tonnes of oil equivalent)



Note:

This flow chart is based on data that appear in Tables 6.1 and 6.4.

Annex I

Energy balance: Net Calorific Values

Aggregate energy balance (Table I.1)

- I.1 These tables show the flows of energy in the United Kingdom from production to final consumption through conversion into secondary fuels such as coke, petroleum products, secondary electricity and heat sold using Net Calorific Values (NCV). The NCVs used are detailed in annex A of DUKES.
- I.2 A key reason for showing these balances on a NCV basis is to enable comparisons with EU statistics, which use this method. This approach has been used when comparing EU Member States' shares of renewables in final energy consumption, as set out on pages 78 to 88 of the December 2010 Energy Trends article, Renewable energy: Statistics used for the EU 2020 renewables target.
- I.3 The principles behind the presentation used in the Digest are explained in Annex A. The figures are presented on an energy supplied basis, in tonnes of oil equivalent.
- I.4 These energy balance tables have been used in the calculation of the percentage of energy derived from renewable sources, detailed in table 6B on page 166 of DUKES. The contribution of renewables has continued to grow in recent years, with the share reaching 4.1 per cent in 2012.

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I.1 Aggregate energy balance 2012 **Net calorific values**

	Coal	Manufactured	Primary	Petroleum	Natural	Bioenergy	Primary	Electricity	Heat	Total
		fuel(1)	oils	products	gas(2)	& waste(3)	electricity			
Supply										
Indigenous production	10,102	-	46,276	-	35,041	5,351	17,446	-	-	114,216
Imports	27,608	148	62,842	26,883	42,353	1,519	-	1,186	-	162,539
Exports	-349	-394	-35,268	-27,900	-11,145	-259	-	-150	-	-75,466
Marine bunkers	-	-	-	-3,118	-	-	-	-	-	-3,118
Stock change (4)	+1,848	+66	-505	+139	-21	-	-	-	-	+1,528
Primary supply	39,210	-179	73,345	-3,995	66,228	6,611	17,446	1,036	-	199,700
Statistical difference(5)	+141	-16	-159	-103	-166	-12	-	-31	-	-347
Primary demand	39,069	-163	73,504	-3,892	66,394	6,623	17,446	1,067	-	200,046
Transfers	-	+4	-2,126	+2,083	-4	-	-2,241	+2,241	-	-44
Transformation	-37,551	1,707	-71,377	70,119	-18,305	-4,481	-15,205	28,788	1,400	-44,905
Electricity generation	-32,603	-779	-	-722	-16,572	-4,367	-15,205	28,788	-	-41,461
Major power producers	-31,973	-	-	-374	-14,116	-1,441	-15,205	26,147	-	-36,962
Autogenerators	-631	-779	-	-348	-2,456	-2,926	-	2,642	-	-4,498
Heat generation	-349	-48	-	-68	-1,733	-114	-	-	1,400	-911
Petroleum refineries	-	-	-71,377	70,909	-	-	-	-	-	-468
Coke manufacture	-3,668	3,423	-	-	-	-	-	-	-	-245
Blast furnaces	-713	-1,080	-	-	-	-	-	-	-	-1,793
Patent fuel manufacture	-218	191	-	-	-	-	-	-	-	-27
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	3	661	-	4,788	4,311	-	-	2,300	168	12,230
Electricity generation	-	-	-	-	-	-	-	1,548	-	1,548
Oil and gas extraction	-	-	-	620	3,750	-	-	49	-	4,419
Petroleum refineries	-	-	-	4,168	254	-	-	372	168	4,961
Coal extraction	3	-	-	-	10	-	-	71	-	83
Coke manufacture	-	354	-	-	-	-	-	7	-	360
Blast furnaces	-	307	-	-	21	-	-	32	-	360
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	87	-	87
Other	-	-	-	-	277	-	-	136	-	413
Losses	-	85	-	-	950	-	-	2,489	-	3,524
Final consumption	1,515	801	-	63,522	42,824	2,142		27,307	1,233	139,344
Industry	1,007	609	-	4,010	8,568	416	-	8,411	795	23,816
Unclassified	-	167	-	2,978	1	416	-	-	-	3,563
Iron and steel	34	442	-	5	376	-	-	289	-	1,146
Non-ferrous metals	12	-	-	-	217	-	-	433	-	662
Mineral products	650	-	-	46	1,169	-	-	580	-	2,445
Chemicals	46	-	-	294	1,717	-	-	1,483	350	3,890
Mechanical engineering etc	7	-	-	0	516	-	-	608	-	1,131
Electrical engineering etc	3	-	-	2	220	-	-	532	-	757
Vehicles	34	-	-	21	727	-	-	436	-	1,218
Food, beverages etc	29	-	-	433	1,659	-	-	955	3	3,079
Textiles, leather etc	41	-	-	96	383	-	-	250	-	771
Paper, printing etc	66	-	-	60	957	-	-	925	4	2,013
Other industries	80	-	-	38	499	-	_	1,791	438	2,846
Construction	5	-	-	36	127	-	-	128	-	295
Transport (6)		_	-	49,083	_	896	_	352	_	50,341
1 (-)	- 11			•						11,788
Air	11	_	_	11.788	-	-	-	-		
Air Rail	-	-	-	11,788 642	-	-	-	349	-	
Rail		- -	-	642	-	- - 896	-	349 2	-	1,003
Rail Road	-	-	- - -	642 36,344	- - -	- - 896 -	- - -	349 2 -	-	1,003 37,242
Rail Road National navigation	-	- - -	- - -	642	-	- 896 -	- - - -		-	1,003
Rail Road National navigation Pipelines	- 11 - -	- - - - 192	- - - -	642 36,344 308	- - - - 33.796	-	- - - -	2 -	- - - - 438	1,003 37,242 308
Rail Road National navigation Pipelines Other	- 11 - - - 497	- - - - - 192	- - - - -	642 36,344 308 - 3,750	33,796 26.240	- - 831	- - - - -	2 - - 18,544	- - - - 438 52	1,003 37,242 308 - 58,047
Rail Road National navigation Pipelines Other Domestic	- 11 - - - 497 481	- - - - - 192 192	- - - - -	642 36,344 308 - 3,750 2,559	26,240	- 8 31 592		2 - - 18,544 9,862	52	1,003 37,242 308 - 58,047 39,979
Rail Road National navigation Pipelines Other Domestic Public administration	- 11 - - - 497 481 8	192	- - - - - - -	36,344 308 3,750 2,559 300	26,240 3,715	- 831 592 96		2 - - 18,544 9,862 1,624	52 383	1,003 37,242 308 - 58,047 39,979 6,125
Rail Road National navigation Pipelines Other Domestic Public administration Commercial	- 11 - - - 497 481 8	192	-	36,344 308 3,750 2,559 300 367	26,240 3,715 2,867	- 831 592 96 22		2 - - 18,544 9,862 1,624 6,725	52	1,003 37,242 308 - 58,047 39,979 6,125 9,986
Rail Road National navigation Pipelines Other Domestic Public administration	- 11 - - - 497 481 8	192	-	36,344 308 3,750 2,559 300	26,240 3,715	- 831 592 96		2 - - 18,544 9,862 1,624	52 383 3	1,003 37,242 308 - 58,047 39,979 6,125

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽³⁾ Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.11 regarding electricity use in transport and 6.24 regarding renewables use in transport.

I.1 Aggregate energy balance 2011 **Net calorific values**

								- connes		
	Coal	Manufactured fuel (1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
_		1001(1)		p. 0 a.a. 0.0	9(=/					
Supply			=				.=			
Indigenous production	11,001	-	53,998	-	40,762r	4,721r	17,469r	-	-	127,952r
Imports	20,329	34	60,276r	23,418r	45,225	1,661r	-	747	-	151,691r
Exports	-351	-356	-35,042	-28,627r	-14,215	-155	-	-212	-	-78,957r
Marine bunkers	-	-	-	-3,576r	-	-	-	-	-	-3,576r
Stock change (4)	+508	-385	+634	+198	-1,751	-	-	-	-	-796
Primary supply	31,487	-707	79,866r	-8,586r	70,022r	6,227r	17,469r	535	-	196,313r
Statistical difference(5)	-25r	-14	-316r	-17r	-309r	-10r	-	-57r	-	-747r
Primary demand	31,512r	-693	80,182r	-8,569r	70,330r	6,237r	17,469r	592r	-	197,060r
Transfers	-	+5	-2,336r	+2,315r	-5	-	-1,844r	+1,844r	-	-21
Transformation	-29,905r	2,228r	-77,846r	76,363r	-25,543r	-3,991r	-15,625	29,502r	1,388r	-43,429r
Electricity generation	-24,715r	-656r	-	-727r	-23,768r	-3,894r	-15,625	29,502r	-	-39,883r
Major power producers	-23,960	-	-	-321r	-21,327	-1,055	-15,625	26,839	-	-35,449r
Autogenerators	-754r	-656r	-	-407r	-2,441r	-2,838r	-	2,663	-	-4,434r
Heat generation	-330r	-48	-	-72r	-1,775r	-97r	-	-	1,388r	-933r
Petroleum refineries	-	-	-77,846r	77,162r	-	_	_	-	-	-684r
Coke manufacture	-3,915	3,697	· -	, <u>-</u>	-	_	_	-	-	-217
Blast furnaces	-721	-980	_	0	_	_	_	_	_	-1,701
Patent fuel manufacture	-224	214	_	-	_	_	_	_	_	-10
Other			_	_	_	_	_	_	_	
Energy industry use	2	623		5,085r	4,588r			2,185r	182r	12,665r
Electricity generation	-	-	_	-	-,,,,,,,	_	_	1,412r	-	1,412r
Oil and gas extraction	_	_	_	543r	4,114	_	_	50	_	4,707r
Petroleum refineries	_	_	_	4,542r	281r	_	_	403r	182r	5,408r
Coal extraction	2	_		-,5-21	7			73	-	82
Coke manufacture	2		_	_	-	_	_	73	-	
	-	353	-	-		-	-			360
Blast furnaces	-	270	-	-	35	-	-	22	-	326
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	81	-	81
Other	-	-	-	-	151	-	-	138	-	289
Losses	-	144	-		1,127r		=	2,420r		3,691r
Final consumption	1,605	774r	-	65,024r	39,068r	2,246r	-	27,332r	1,206r	137,254r
Industry	1,055	568r	-	4,110r	8,788r	430r	-	8,800r	769r	24,521r
Unclassified	-	169	-	2,727r	2	430r	-	-	-	3,327r
Iron and steel	36	399r	-	4	431r	-	-	330	-	1,200r
Non-ferrous metals	13	-	-	Or	188r	-	-	599	-	800r
Mineral products	662	-	-	215r	1,130r	-	-	603	-	2,610r
Chemicals	47	-	-	178r	1,829r	-	-	1,517r	350r	3,921r
Mechanical engineering etc	7	-	-	1r	512r	-	-	624r	-	1,145r
Electrical engineering etc	3	-	-	Or	222r	-	-	549r	-	774r
Vehicles	36r	-	-	153r	710r	-	-	446	-	1,345r
Food, beverages etc	30	-	-	538r	1,698r	_	-	973r	2	3,242r
Textiles, leather etc	43	-	-	105r	395r	_	_	257	-	800r
Paper, printing etc	67	-	-	57r	1,020r	-	-	938	1	2,083r
Other industries	105	-	_	8r	515r	_	_	1,832r	417	2,876r
Construction	6	_	_	123r	135r	_	_	132	-	397r
Transport (6)	11	_	_	49,648r	-	1,063r	_	351	_	51,072r
Air		_	_	12,162	-	1,0031	_	331	_	12,162
Rail	- 11	-	-	650r	-	-	-	349	-	1,010r
	11	-	-		-	1.062=	-		-	
Road	-	-	-	36,481	-	1,063r	-	2	-	37,546
National navigation	-	-	-	354r	-	-	-	-	-	354r
Pipelines	-	-	-	-	-	-	-	40.404	40-	-
Other	539	206	-	3,801r	29,819r	753r	-	18,181r	437r	53,735r
Domestic	513	206	-	2,525r	22,705r	520r	-	9,596r	52	36,116r
Public administration	17	-	-	344	3,505r	85r	-	1,582r	382r	5,915r
Commercial	4	-	-	407	2,678r	15r	-	6,663	3	9,770r
Agriculture	1	-	-	282	138r	133r	-	339	-	893r
Miscellaneous	4r	-	-	243	793r	0	-	-	-	1,041r
				7,465r	460r					7,925r

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽³⁾ Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.11 regarding electricity use in transport and 6.24 regarding renewables use in transport.

I.1 Aggregate energy balance 2010 **Net calorific values**

Supply Indigenous production 10,897 - 65,450 Imports 16,599r 88 57,115r Exports -511 -369 -43,812 Marine bunkers - - - Stock change (4) +4,376r -153 -39 Primary supply 31,361r -435r 78,714r Statistical difference(5) +342r -157 -20 Primary demand 31,019 -420 78,734r Transfers - +20 -2,466r Transformation -29,388 2,103 -76,268r Electricity generation -24,278 -651 - Major power producers -23,535 - - Autogeneration -275 -48 - Petroleum refineries - - -76,268r Coke manufacture -3,918 3,677 - -86 Blast furnaces -678 -1,110 - - - -76,268r Coke man	5 / 1	N 4 1	<u> </u>		El		
Indigenous production 10,897	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Indigenous production 10,897 88 57,115 Exports 16,599 88 57,115 Exports 5-111 3-69 43,812 Marine bunkers - - - - - Stock change (4) +4,376 -153 -39 Primary supply 31,361r -435 78,714r Statistical difference (5) +342r -15 -20 Primary demand 31,019 -420 78,734r Transfers +20 -2,466r Transformation -29,388 2,103 -76,268r Electricity generation -24,278 -651 - Major power producers -23,535 - - Heat generation -275 -48 - Petroleum refineries - -76,268r Petroleum refineries - -76,268r Patent fuel manufacture -3,918 3,677 - Blast furnaces -678 -1,110 - Patent fuel manufacture -240 235 - Cotal extraction - - - Electricity generation - - - Electricity generation - - - Cotal extraction - - - Cotal extraction - - - Petroleum refineries - - - Cotal extraction - - - Cotal extraction - - - Petroleum refineries - - - Cotal extraction - - - Cotal extraction - - - Petroleum refineries - - - Cotal extraction - - - Cotal extraction - - - Petroleum refineries - - - Cotal extraction - - - Petroleum refineries - - - Cotal extraction - - - Pumped storage - - - Other - - - Losses - 163 - Final consumption 1,627 897 - Industry 1,079 659 - Unclassified - 184 - Iron and steel 41 475 - Unclassified - 184 - Iron and steel 41 475 - Unclassified - 184 - Final consumption 1,627 897 - Industry 1,079 659 - Cother - - - Cother - - - Cother - - - Cother - - - Patentrucker - - - Petroleum refinering etc 8 - Cother - - - Cother - - - Cother - - - Cother - - - Cother - - -							
Imports		51,468	4,388r	15,112r	_		147,315r
Exports	24,403r	45,619	1,734r	13,1121	614		146,171r
Marine bunkers -15 -39 Stock change (4) +4,376r -153 -39 Primary supply 31,361r -435r 78,714r Statistical difference(5) +342r -155r 200 Primary demand 31,019 -420 78,734r Transfers - +20 -2,466r Transformation -29,388 2,103 -76,268r Electricity generation -24,278 -651 - Major power producers -23,535 - - Autogenerators -743 -651 - Heat generation -275 -48 - Coke manufacture -3,918 3,677 - Petroleum refineries - - -76,268r Coke manufacture -3,918 3,677 - Electricity generation - - - Other - - - Electricity generation - - - Oil and gas extraction	-26,851r		-164	-	-385	-	-85,743r
Stock change (4) +4,376r -153 -39 Primary supply 31,361r -435r 78,714r Statistical difference(5) +342r -15r -20r Primary demand 31,019 -420 78,734r Transfers - +20 -2,466r Transformation -29,388 2,103 -76,268r Electricity generation -24,278 -651 - Major power producers -23,535 - - Autogeneration -275 -48 - Petroleum refineries - -76,268r Coke manufacture -3,918 3,677 - Petroleum refineries - - -76,268r Coke manufacture -240 235 - Patent fuel manufacture -240 235 - Electricity generation - - - Oil and gas extraction - - - Petroleum refineries - - - Coal ex		-13,651	-104	-	-303	-	,
Primary supply 31,361r -435r 78,714r Statistical difference(5) +342r -15r -20r Primary demand 31,019 -420 78,734r Transfers - +20 -2,466r Transformation -29,388 2,103 -76,268r Electricity generation -24,278 -651 - Major power producers -23,535 - - Autogeneration -275 -48 - Heat generation -275 -48 - Petroleum refineries - - -76,268r Coke manufacture -3,918 3,677 - Patent fuel manufacture -240 235 - Patent fuel manufacture -240 235 - Patent fuel manufacture -240 235 - Electricity generation - - - Oil and gas extraction - - - Cola extraction 3 - -	-3,339r	- 4 400	-	-	-	-	-3,339r
Statistical difference(5) +342r -15r -20r Primary demand 31,019 -420 78,734r Transfers - +20 -2,466r Transformation -29,388 2,103 -76,268r Electricity generation -24,278 -651 - Major power producers -23,535 - - Autogeneration -275 -48 - Heat generation -275 -48 - Petroleum refineries - -76,268r Coke manufacture -3,918 3,677 - Petroleum refineries - -76,268r Coke manufacture -3,918 3,677 - Patent fuel manufacture -240 235 - Other - -678 -1,110 - Petroleum refineries 3 644 - Electricity generation - - - Oil and gas extraction - - - Petroleum refineries	612r	+1,182	- F 057-	45 440=	-		5,977r
Primary demand 31,019 -420 78,734r Transfers - +20 -2,466r Transformation -29,388 2,103 -76,268r Electricity generation -24,278 -651 - Major power producers -23,535 - - Autogeneration -275 -48 - Petroleum refineries - - -76,268r Coke manufacture -3,918 3,677 - Petroleum refineries - - -76,268r Coke manufacture -3,918 3,677 - Patent fuel manufacture -240 235 - Patent fuel manufacture -240 235 - Other - - - Electricity generation - - - Other - - - Electricity generation - - - Oil and gas extraction - - - Coal extraction 3 </td <td>-5,176r</td> <td>84,618</td> <td>5,957r</td> <td>15,112r</td> <td>229</td> <td>-</td> <td>210,381r</td>	-5,176r	84,618	5,957r	15,112r	229	-	210,381r
Transfers - +20 -2,466r Transformation -29,388 2,103 -76,268r Electricity generation -24,278 -651 - Major power producers -23,535 - - Autogeneration -275 -48 - Petroleum refineries - - -76,268r Coke manufacture -3,918 3,677 - Petroleum refineries - - -76,268r Coke manufacture -3,918 3,677 - Patent fuel manufacture -240 235 - Patent fuel manufacture -240 235 - Cother - - - Electricity generation - - - Oil and gas extraction - - - Petroleum refineries - - - Coal extraction 3 - - Cole extraction 3 - - Cole extraction 3	+101r	-197r	-2r		-37r	-	+172r
Transformation -29,388 2,103 -76,268r Electricity generation -24,278 -651 - Major power producers -23,535 - - Autogenerators -743 -651 - Heat generation -275 -48 - Petroleum refineries - - -76,268r Coke manufacture -3,918 3,677 - Blast furnaces -678 -1,110 - Patent fuel manufacture -240 235 - Date fur fuel manufacture -240 235 - Dother - - - - Electricity generation - - - - Other - - - - Electricity generation - - - - Oil and gas extraction - - - - Petroleum refineries - - - - Coal extraction 3	-5,277r	84,814r	5,959r	15,112r	266r	-	210,208r
Electricity generation -24,278 -651 - Major power producers -23,535 - - Autogenerators -743 -651 - Heat generation -275 -48 - Petroleum refineries - - -76,268r Coke manufacture -3,918 3,677 - Blast furnaces -678 -1,110 - Patent fuel manufacture -240 235 - Other - - - Patent fuel manufacture - - - Petroleum refineries - - - - Cloda extraction - - - - - Petroleum refineries - <td>+2,467r</td> <td>-20</td> <td>-</td> <td>-1,187r</td> <td>+1,187r</td> <td></td> <td>+1</td>	+2,467r	-20	-	-1,187r	+1,187r		+1
Major power producers -23,535 - - Autogenerators -743 -651 - Petroleum refineries - - 76,268r Coke manufacture -3,918 3,677 - Blast furnaces -678 -1,110 - Patent fuel manufacture -240 235 - Other - - - Energy industry use 3 644 - Electricity generation - - - Oil and gas extraction - - - Petroleum refineries - - - Coal extraction 3 - - Petroleum refineries - - - Coal extraction 3 - - Petroleum refineries - - - Coal extraction 3 - - Coal extraction 3 - - Coke manufacture - 362 -	74,276r	-30,745	-3,718r	-13,925r	31,368r		-44,937r
Autogenerators -743 -651 - Heat generation -275 -48 - Petroleum refineries - -76,268r Coke manufacture -3,918 3,677 - Blast furnaces -678 -1,110 - Patent fuel manufacture -240 235 - Other - - - Energy industry use 3 644 - Electricity generation - - - Oil and gas extraction - - - Petroleum refineries - - - Coal extraction 3 - - Petroleum refineries - - - Coal extraction 3 - - Patrock - 362 - Blast furnaces	-1,076r	-28,910	-3,677r	-13,925r	31,368r	-	-41,150r
Heat generation	-569r	-26,478	-846	-13,925r	28,701	-	-36,652r
Petroleum refineries 76,268r Coke manufacture -3,918 3,677 - Blast furnaces -678 -1,110 - Patent fuel manufacture -240 235 - Other - - - Energy industry use 3 644 - Electricity generation - - - Oil and gas extraction - - - Petroleum refineries - - - Coal extraction 3 - - Coke manufacture - 362 - Blast furnaces - 282 - Patent fuel manufacture - 362 - Patent fuel manufacture - 282 - Pumped storage - 282 - Other - 163 - Losses - 163 - Industry 1,079 659 - Unclassified -	-507	-2,433	-2,830r	-	2,667r	-	-4,497r
Coke manufacture -3,918 3,677 - Blast furnaces -678 -1,110 - Patent fuel manufacture -240 235 - Other - - - Energy industry use 3 644 - Electricity generation - - - Oil and gas extraction - - - Petroleum refineries - - - Coal extraction 3 - - - Coke manufacture - 362 - - Patent fuel manufacture - 362 - - Patent fuel manufacture - - - - Patent fuel manufacture	-63	-1,835	-41	-	-	1,361	-900r
Blast furnaces	75,419r	-	-	-	-	-	-849r
Patent fuel manufacture -240 235 - Chher - - - Energy industry use 3 644 - Electricity generation - - - Oil and gas extraction - - - Petroleum refineries - - - Coal extraction 3 - - Coal extraction 3 - - Coke manufacture - - - - Coke manufacture - 362 - Blast furnaces - 362 - Blast furnaces - 282 - Patent fuel manufacture - 362 - Patent fuel manufacture - 282 - Patent fuel manufacture - - - Pumped storage - - - Other 1,627 897 - Industry 1,079 659 - <tr< td=""><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-240</td></tr<>	-	-	-	-	-	-	-240
Other - - - Energy industry use 3 644 - Electricity generation - - - Oil and gas extraction - - - Petroleum refineries - - - Coal extraction 3 - - Coke manufacture - 362 - Blast furnaces - 282 - Patent fuel manufacture - - - Pumped storage - - - - Other - - - - Pumped storage - - - - Other - - - - Pumped storage - - - - Other - - - - Losses - - - - Final consumption 1,627 897 - Industry 1,079	-4	-	-	-	-	-	-1,793
Energy industry use 3 644 - Electricity generation - - - Oil and gas extraction - - - Petroleum refineries - - - Coal extraction 3 - - Coke manufacture - 362 - Blast furnaces - 282 - Patent fuel manufacture - - - Pumped storage - - - - Other - - - - - Pumped storage -	-	-	-	-	-	-	-5
Electricity generation -	-	-	_	-	_	-	-
Electricity generation -	4,875r	5,343	-	-	2,222	94	13,181r
Oil and gas extraction - - - Petroleum refineries - - - Coal extraction 3 - - Coke manufacture - 362 - Blast furnaces - 282 - Patent fuel manufacture - - - Pumped storage - - - Other - - - Cother - - - Losses - 163 - Final consumption 1,627 897 - Industry 1,079 659 - Unclassified - 184 - Iron and steel 41 475 - Non-ferrous metals 14 - - Non-ferrous metals 14 - - Mechanical engineering etc 8 - - Chemicals 48 - - Mechanical engineering etc <t< td=""><td>-</td><td>-</td><td>_</td><td>_</td><td>1,385</td><td>-</td><td>1,385</td></t<>	-	-	_	_	1,385	-	1,385
Petroleum refineries -	504r	4,730	_	_	48	_	5,282r
Coal extraction 3 - - Coke manufacture - 362 - Blast furnaces - 282 - Patent fuel manufacture - - - Pumped storage - - - Other - - - Losses - 163 - Final consumption 1,627 897 - Industry 1,079 659 - Unclassified - 184 - Iron and steel 41 475 - Unclassified - 184 - Iron and steel 41 475 - Non-ferrous metals 14 - - Mineral products 667 - - Chemicals 48 - - Mechanical engineering etc 8 - - Electrical engineering etc 8 - - Food, beverages etc <	4,371r	297r	_	_	433	94	5,195r
Coke manufacture - 362 - Blast furnaces - 282 - Patent fuel manufacture - - - Pumped storage - - - Other - - - Losses - 163 - Final consumption 1,627 897 - Industry 1,079 659 - Industry 1,079 659 - Unclassified - 184 - Iron and steel 41 475 - Non-ferrous metals 14 - - Non-ferrous metals 14 - - Mineral products 667 - - Chemicals 48 - - Mechanical engineering etc 8 - - Blectrical engineering etc 3 - - Vehicles 34 - - Textiles, leather etc <td< td=""><td>1,07 11</td><td>7</td><td>_</td><td>_</td><td>82</td><td>-</td><td>92</td></td<>	1,07 11	7	_	_	82	-	92
Blast furnaces - 282 - Patent fuel manufacture - - - - -		-			8	_	369
Patent fuel manufacture - - - Pumped storage - - - Other - - - Losses - 163 - Final consumption 1,627 897 - Industry 1,079 659 - Unclassified - 184 - Iron and steel 41 475 - Non-ferrous metals 14 - - Non-ferrous metals 14 - - Nineral products 667 - - Chemicals 48 - - Mechanical engineering etc 8 - - Chemicals 48 - - Mechanical engineering etc 3 - - Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc <	-		-	-	25	-	
Pumped storage - - - Other - - - Losses - 163 - Final consumption 1,627 897 - Industry 1,079 659 - Unclassified - 184 - Iron and steel 41 475 - Non-ferrous metals 14 - - Mineral products 667 - - Chemicals 48 - - Mineral products 667 - - Chemicals 48 - - Mechanical engineering etc 8 - - Mechanical engineering etc 3 - - Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121<	-	50	-	-			357
Other - <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	-	-	-	-	-	-	-
Losses - 163 - Final consumption 1,627 897 - Industry 1,079 659 - Unclassified - 184 - Iron and steel 41 475 - Non-ferrous metals 14 - - Non-ferrous metals 14 - - Mineral products 667 - - Chemicals 48 - - Mineral products 667 - - Chemicals 48 - - Mechanical engineering etc 8 - - Mechanical engineering etc 8 - - Vehicles 34 - - Telectrical engineering etc 3 - - Vehicles 34 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries	-	-	-	-	91	-	91
Final consumption 1,627 897 - Industry 1,079 659 - Unclassified - 184 - Iron and steel 41 475 - Non-ferrous metals 14 - - Mineral products 667 - - Chemicals 48 - - Mechanical engineering etc 8 - - Mechanical engineering etc 8 - - Electrical engineering etc 3 - - Vehicles 34 - - - Food, beverages etc 28 - - - Textiles, leather etc 45 - - - Paper, printing etc 67 - - - Other industries 121 - - - Construction 3 - - - Air - - - -	-	260	-	-	150	-	409
Industry 1,079 659 - Unclassified - 184 - Iron and steel 41 475 - Non-ferrous metals 14 - - Mineral products 667 - - Chemicals 48 - - Mechanical engineering etc 8 - - Electrical engineering etc 3 - - Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Rail 13 - - Rail 13 - <t< td=""><td>-</td><td>1,450</td><td>-</td><td>-</td><td>2,325</td><td>-</td><td>3,937</td></t<>	-	1,450	-	-	2,325	-	3,937
Unclassified - 184 - Iron and steel 41 475 - Non-ferrous metals 14 - - Mineral products 667 - - Chemicals 48 - - Mechanical engineering etc 8 - - Electrical engineering etc 3 - - Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Rail 13 - - Road - - - National navigation - -	66,592r	47,256r	2,242r	-	28,274r	1,266	148,154r
Iron and steel 41 475 - Non-ferrous metals 14 - - Mineral products 667 - - Chemicals 48 - - Mechanical engineering etc 8 - - Electrical engineering etc 3 - - Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Rail 13 - - Road - - - National navigation - - - Pipelines - - <td< td=""><td>4,651r</td><td>8,853r</td><td>383r</td><td>-</td><td>8,987</td><td>822</td><td>25,436r</td></td<>	4,651r	8,853r	383r	-	8,987	822	25,436r
Non-ferrous metals 14 - - Mineral products 667 - - Chemicals 48 - - Mechanical engineering etc 8 - - Electrical engineering etc 3 - - Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 -	2,727r	2	383r	-	-	-	3,297r
Mineral products 667 - - Chemicals 48 - - Mechanical engineering etc 8 - - Electrical engineering etc 3 - - Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - <td>6r</td> <td>451</td> <td>-</td> <td>-</td> <td>330</td> <td>-</td> <td>1,303r</td>	6r	451	-	-	330	-	1,303r
Chemicals 48 - - Mechanical engineering etc 8 - - Electrical engineering etc 3 - - Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	Or	205r	-	-	578	-	797r
Mechanical engineering etc 8 - - Electrical engineering etc 3 - - Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	272r	1,195r	-	-	625	-	2,758r
Electrical engineering etc 3 - - Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	293r	1,674r	-	-	1,587	415	4,017r
Electrical engineering etc 3 - - Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	Or	496r	-	-	658	-	1,162r
Vehicles 34 - - Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - - -	Or	236r	_	_	572	_	812r
Food, beverages etc 28 - - Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	80r	676r	_	_	454	_	1,244r
Textiles, leather etc 45 - - Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	1,010r	1,690r	_	_	991	1	3,720r
Paper, printing etc 67 - - Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	76r	408r	_	_	262		791r
Other industries 121 - - Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	98r	1,137r	_		942	1	2,245r
Construction 3 - - Transport (6) 13 - - Air - - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -		538r	_	_			
Transport (6) 13 - - Air - - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	55r		-	-	1,848	405	2,968r
Air - - - Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	34r	145r	-	-	139	-	321r
Rail 13 - - Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	49,595r	-	1,150r	-	350	-	51,109r
Road - - - National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	11,673	-	-	-	- -	-	11,673
National navigation - - - Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	620r	-	-	-	349	-	982r
Pipelines - - - Other 536 238 - Domestic 509 238 - Public administration 19 - -	36,971	-	1,150r	-	2	-	38,123r
Other 536 238 - Domestic 509 238 - Public administration 19 - -	330r -	-	-	-	-	-	330r -
Domestic 509 238 - Public administration 19	4,422r	37,777r	708r	_	18,936r	444	63,060r
Public administration 19	•			-	-		
	3,242r	30,149	445r	-	10,218r	52	44,853r
Commercial 2	295r	3,835r	91r	-	1,642	382	6,265r
A T II	359r	2,814r	13r	-	6,729r	10	9,928r
Agriculture 1	291r	152	159r	-	346	-	950r
Miscellaneous 4 Non energy use	235r 7,924r	825r 626r	0r	-	-	-	1,065r 8,550r

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽³⁾ Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.11 regarding electricity use in transport and 6.24 regarding renewables use in transport.

I.1 Aggregate energy balance 2009 **Net calorific values**

	Cool	Manufactured	Drimory	Petroleum	Natural	Bioenergy	Primary	Electricity	Heat	Total
	Coai	fuel(1)	oils	products	gas(2)	& waste(3)	-	Electricity	пеаі	iotai
Supply										
Indigenous production	10,487	_	70,905	_	53,763	4.146r	16,482r	_	_	155,783r
Imports	23,720r	131	57,106r	22,887r	35,272	1,194r	10,4021	568	_	140,879r
Exports	-465	-127	-47,195r	-26,229r	-10,610	-38	_	-322	_	-84,986r
Marine bunkers	-405	-127	-47,1901	-20,2291 -3,794r	-10,010	-30	_	-522		-3,794r
Stock change (4)	-3,985r	+0	+565	+344	-377	-	-	-	-	
U (/	29,757r	5	81,382r	-6,792r	78,048	5.301r	16,482r	246		-3,453r 204,428r
Primary supply			-	•		- ,	10,4621			-
Statistical difference(5)	-106r	-11	+103r	-59r	-309r	-7r	-	+12r	-	-377r
Primary demand	29,863	16	81,278r	-6,733r	78,357r	5,308	16,482r	234r	-	204,805r
Transfers		+27	-2,864	+2,866	-27	-	-1,253r	+1,253r		+2
Transformation	-28,214	1,489	-78,414r	75,746r	-29,566	-3,386r	-15,229	30,825r	•	-45,448r
Electricity generation	-23,413	-749	-	-1,421r	-27,805	-3,307r	-15,229	30,825r	-	-41,099r
Major power producers	-22,586	-	-	-966r	-25,402	-618	-15,229	28,159	-	-36,641
Autogenerators	-828	-749	-	-455r	-2,403	-2,689r	-	2,666r	-	-4,458r
Heat generation	-281	-48	-	-61	-1,761	-79r	-	-	1,301	-930r
Petroleum refineries	-	-	-78,414r	77,291r	-	-	-	-	-	-1,124r
Coke manufacture	-3,654	3,363	-	-	-	-	-	-	-	-292
Blast furnaces	-631	-1,301	-	-62	-	_	-	-	-	-1,994
Patent fuel manufacture	-235	224	_	-	-	_	_	_	_	-11
Other			_	_	_	_	_	_	_	_
Energy industry use	3	660		4,766r	5,354r	_		2,236	94	13,114r
Electricity generation	-	-		4,7001	J,JJ-1		_	1,425	-	1,425r
	_	_	-	- 464r	4,729	-	_	51	_	5,244r
Oil and gas extraction Petroleum refineries	-	-	-			-	-			,
	-	-	-	4,302r	312r	-	-	389	94	5,097r
Coal extraction	3	-	-	-	7	-	-	80	-	90
Coke manufacture	-	344	-	-	-	-	-	8	-	352
Blast furnaces	-	316	-	-	35	-	-	40	-	391
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	100	-	100
Other	-	-	-	-	271	-	-	144	-	415
Losses	-	68	-	-	1,266	-	-	2,411	-	3,745
Final consumption	1,646	803	-	67,113r	42,144	1,923r	-	27,665	1,206	142,501r
Industry	1,094	597	-	4,632r	8,756r	354r	-	8,576	763	24,771r
Unclassified	· -	192	-	2,830r	2	354r	-	´ -	-	3,378r
Iron and steel	41	404	_	_,000	390	-	_	311	_	1,154r
Non-ferrous metals	16	-		1r	173r	_		522	_	713r
		-	-			-	-			
Mineral products	676	-	-	254r	1,180r	-	-	603	-	2,713r
Chemicals	46	-	-	203r	1,859r	-	-	1,522	347	3,977r
Mechanical engineering etc	9	-	-	1r	450r	-	-	661	-	1,121r
Electrical engineering etc	3	-	-	Or	233r	-	-	555	-	792r
Vehicles	31	-	-	260r	550r	-	-	431	-	1,272r
Food, beverages etc	32	-	-	787r	1,661r	-	-	924	1	3,404r
Textiles, leather etc	46	-	-	92r	400r	-	-	259	-	798r
Paper, printing etc	67	-	-	122r	1,156r	-	-	952	-	2,297r
Other industries	124	-	-	8r	559r	-	-	1,700	415	2,805r
Construction	3	-	-	65r	143r	_	-	136	-	348r
Transport (6)	13	_	_	50,536r		988	_	347	_	51,884r
Air		_	_	12,114	_	-	_	-	_	12,114
Rail	13	_	_	617r	_	_	_	346	_	975r
Road	13	-	-	37,430	-	988	-	2	-	38,420
	-	-	-		-	908	-	2	-	
National navigation	-	-	-	375r	-	-	-	-	-	375r
		_	-	-			-	-		-
Pipelines							_	40 740	444	57,392r
Other	539	207	-	4,025r	32,856r	580r	_	18,742		
Other Domestic	488	207 207	-	2,851r	25,731	386	-	10,193	52	39,908r
Other	488 16		- - -	•	25,731 3,500r	386 75r	-	10,193 1,672	52 382	39,908r 5,996r
Other Domestic	488		- - -	2,851r	25,731	386	-	10,193	52	39,908r
Other Domestic Public administration	488 16		- - - -	2,851r 350r	25,731 3,500r	386 75r	- - -	10,193 1,672	52 382	39,908r 5,996r
Other Domestic Public administration Commercial	488 16		- - - -	2,851r 350r 340r	25,731 3,500r 2,692r	386 75r 9r	- - - -	10,193 1,672 6,551	52 382 9	39,908r 5,996r 9,634r

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽³⁾ Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.11 regarding electricity use in transport and 6.24 regarding renewables use in transport.

I.1 Aggregate energy balance 2008 **Net calorific values**

	Coal	Manufactured	Primary	Petroleum	Natural	Bioenergy	Primary	Electricity	Heat	Total
	Coai	fuel(1)	oils	products	gas(2)	& waste(3)	•	Liectricity	Heat	Total
Cumhy										
Supply Indigenous production	10,740	_	74,538		62,713	3,803r	12,963r		_	164,757r
• .	27,311r	500	62,586r	24,492r	31,500	885	12,9031	- 1,057	-	148,332r
Imports	-441r				-9,493	000	-	-109	-	•
Exports Marine bunkers	-4411	-141 -	-50,286	-29,587r -4,001r	-9,493	_	-	-109	-	-90,057r -4,001r
Stock change (4)	-1,851r	+162	+245	-4,0011 50r	-239	-	-	-	-	-4,0011 -1,633r
	35,758r	520	87,083r	-9,045r	84,481	4,688r	12,963r	948		217,397r
Primary supply Statistical difference (5)	•	-7	-	•	+345r		·	+20r		-
Statistical difference(5)	+143r 35,615	527	+184r 86,900r	-76r -8,969r	84,136r	-3r 4,691r	12,963r	928r		+606r 216.791r
Primary demand Transfers	33,013	-127	-2,870	+3,288r	-5	4,0911	-1,055	+1,055		+287r
Transformation	-33,859	1,586	-2,670 -84,030r	81,352r	-31,1 27	-3,010r	-1,033 - 11,909	32,031r		-47,430r
Electricity generation	-28,446	-839	-04,0301	-1.490r	-29,160	-2,960r	-11,909	32,031r	-	-42,773r
Major power producers	-20, 44 0 -27,524	-039	-	-1,490i -1,045r	-29,100	-2,9601	-11,909	29,367	-	-42,7731 -38,434r
	-923	-839	-	-1,0451 -445r	-2,504	-2,293r	-11,909	29,367 2,664r	-	-36,434i -4,339r
Autogenerators Heat generation	-298	-48	_	-62	-1,968	-2,293i -49	_	2,0041	1,537	-4,3391 -888r
Petroleum refineries	-290	-40	-84,030r	83,107r	-1,900	-43	_	_	1,557	-923r
Coke manufacture	-4,066	3,967	-64,0301	63,1071	-	-	-	-	-	-9231
Blast furnaces	-4,000	-1,718	-	-203r	-	-	-	-	-	-2,731r
Patent fuel manufacture	-238	223	-	-2031	-	-	-	-	-	-2,7311 -15
Other	-230	223	-	-	-	-	-	-	-	-13
Energy industry use	4	805		5.194r	5,593			2,227	72	13,895r
Electricity generation	4	603	-	3,1941	3,393	-	-	1,405	-	1,405
Oil and gas extraction				473r	4,743	_	_	1,403 51	-	5,268r
Petroleum refineries	_	-	-	4,720	385	_	-	374	- 72	5,2001 5,551r
Coal extraction	4	_	_	4,720	7	_	_	84	-	95
	4	- 391	-	0	,	-	-	7	-	399r
Coke manufacture	-		-	0	-	-	-			
Blast furnaces	-	414	-	U	56	-	-	39	-	508
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	- 440
Pumped storage	-	-	-	-	400	-	-	110	-	110
Other	-	-	-	-	403	-	-	156	-	559
Losses	4 750	232	-	- 70 477	1,054	- 1,681r	-	2,395	4 405	3,681r 152,072r
Final consumption Industry	1,753 1,231	948 722	<u> </u>	70,477 5,013r	46,356 10,365r	355r	<u> </u>	29,391 9,815	1,465 1,021	28,521r
Unclassified	1,231	222	-	2,912r	3	355r		9,013	1,021	3,490r
	47		-	-		3331	-	400	-	,
Iron and steel	47	500	-	6r	535	-	-	400		1,489r
Non-ferrous metals	19	-	-	5r	227r	-	-	636	-	886r
Mineral products	721	-	-	681r	1,447r	-	-	682	-	3,531r
Chemicals	62	-	-	232r	2,184r	-	-	1,744	592	4,814r
Mechanical engineering etc	9	-	-	1r	605r	-	-	741	4	1,360r
Electrical engineering etc	4	-	-	0r	288r	-	-	636	-	928r
Vehicles	33	-	-	165r	662r	-	-	500	-	1,361r
Food, beverages etc	27	-	-	649r	1,780r	-	-	1,054	10	3,519r
Textiles, leather etc	51	-	-	69r	465r	-	-	292	-	877r
Paper, printing etc	99	-	-	176r	1,293r	-	-	1,106	1	2,675r
Other industries	135	-	-	14r	698r	-	-	1,868	413	3,128r
Construction	25	-	-	103r	177r	-	-	156	-	462r
Transport (6)	13	-	-	52,584r	-	806	-	339	-	53,741r
Air	-	-	-	12,755r	-	-	-	-	-	12,755r
Rail	13	-	-	618r	-	-	-	337	-	968r
Road	-	-	-	38,815	-	806	-	2	-	39,622
National navigation	-	-	-	396r	-	-	-	-	-	396r
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	509	227	-	4,193r	35,356r	521r	-	19,237	445	60,488r
Domestic	489	227	-	2,869r	27,824	326r	-	10,301	52	42,088r
Public administration	9	-	-	440r	3,534r	67r	-	1,750	387	6,186r
Commercial	7	-	-	377r	2,975r	9	-	6,836	6	10,211r
Agriculture	3	-	-	279r	167	119r	-	350	-	919
Miscellaneous	1		-	227	855r	0	-			1,084r
Non energy use	-	-	-	8,688r	635	-	-	-	-	9,323r

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽³⁾ Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.11 regarding electricity use in transport and 6.24 regarding renewables use in transport.

I.1 Aggregate energy balance 2007 **Net calorific values**

	Cool	Manufactured	Dulmanıı	Detrolous	Metural	Diagnaray 0	Dulmanı	Flootrioitu	Heet	Tatal
	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	gas(2)	Bioenergy & waste(3)	-	Electricity	Heat	Total
Supply		. ,		•						
Supply Indigenous production	10.162	_	70.610		64.040	2 606	14.007			172 207
Indigenous production	10,162		79,610	-	64,912	3,696	14,927	744	-	173,307
Imports	26,785	732	59,475	26,043	26,159	390	-	741	-	140,325
Exports	-398	-170	-52,936	-30,822	-9,531	-108	-	-292	-	-94,257
Marine bunkers	- 4.050	-	- 040	-2,356	. 101	-	-	-	-	-2,356
Stock change (4)	+1,850	-22	+813	+1,114	+424	-			-	+4,180
Primary supply	38,399	540	86,963	-6,020	81,964	3,977	14,927	448	-	221,198
Statistical difference (5)	+12	-14	+15	-190	+14	-	-	-34	-	-196
Primary demand	38,388	554	86,947	-5,831	81,950	3,977	14,927	482	-	221,394
Transfers	-	-127	-2,462	+2,491	-6	-	-891	+891	-	-104
Transformation	-36,686	1,618	-84,485	82,357	-29,369	-2,877	-14,036	32,898	1,406	-49,175
Electricity generation	-31,259	-942	-	-1,090	-27,540	-2,877	-14,036	32,898	-	-44,844
Major power producers	-30,376	-	-	-663	-24,751	-559	-14,036	30,073	-	-40,312
Autogenerators	-883	-942	-	-427	-2,789	-2,318	-	2,825	-	-4,532
Heat generation	-289	-48	-	-61	-1,829	-	-	-	1,406	-822
Petroleum refineries	-	-	-84,485	83,704	-	-	-	-	-	-781
Coke manufacture	-4,103	4,072	-	-	-	-	-	-	-	-30
Blast furnaces	-859	-1,633	-	-197	-	-	-	-	-	-2,689
Patent fuel manufacture	-176	168	-	-	-	-	-	_	-	-9
Other	_	-	_	_	_	_	_	_	_	_
Energy industry use	3	837		5,019	5,883	-		2,468	68	14,278
Electricity generation	-	-	-	-	-	_	_	1,521	-	1,521
Oil and gas extraction	_	_	_	411	4,970	_	_	48	_	5,429
Petroleum refineries	_	_	_	4,608	403	_	_	484	68	5,563
Coal extraction	3	_	_	4,000	7	_	_	85	-	95
Coke manufacture	3	388			0			8	_	396
	-		-	-		-	-		-	
Blast furnaces	-	449	-	-	56	-	-	41		546
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-		-	-	104	-	104
Other	-	-	-	-	447	-	-	176	-	623
Losses	-	213	-	-	935	-	-	2,427	-	3,574
Final consumption	1,698	995	-	73,998	45,756	1,101	-	29,377	1,338	154,263
Industry	1,205	811	-	5,714	10,319	242	-	9,699	896	28,887
Unclassified	-	221	-	2,490	3	242	-	-	-	2,956
Iron and steel	52	590	-	63	567	-	-	425	-	1,696
Non-ferrous metals	21	-	-	45	222	-	-	635	-	923
Mineral products	721	-	-	223	1,306	-	-	672	-	2,922
Chemicals	72	-	-	180	2,332	-	-	1,737	480	4,801
Mechanical engineering etc	7	-	-	100	594	-	-	727	3	1,430
Electrical engineering etc	4	-	-	33	289	-	-	627	-	953
Vehicles	33	-	-	115	660	-	-	492	-	1,300
Food, beverages etc	23	-	-	265	1,778	-	-	1,039	2	3,106
Textiles, leather etc	49	-	-	111	470	_	_	288	_	919
Paper, printing etc	96	_	_	62	1,200	_	_	1,096	1	2,455
Other industries	127		_	1,869	714	_	_	1,808	411	4,929
Construction				158	184	_		•	711	497
	0	-	-		104		-	155	-	
Transport (6)	13	-	-	55,836	-	349	-	341	-	56,538
Air	-	-	-	13,211	-	-	-	-	-	13,211
Rail	13	-	-	604	-	-	-	339	-	956
Road	-	-	-	40,507	-	349	-	2	-	40,857
National navigation	-	-	-	1,515	-	-	-	-	-	1,515
Pipelines	-	-	-	-	-	-	-	-		
Other	480	184	-	4,123	34,645	510	-	19,338	442	59,723
Domestic	463	184	-	2,722	27,307	340	-	10,583	52	41,650
Public administration	9	-	-	456	3,285	80	-	1,727	383	5,940
Commercial	4	-	-	382	2,561	14	-	6,679	7	9,647
Agriculture	3	-	-	274	155	76	-	349	-	855
Miscellaneous	2			000	4 000					
Miscellaneous		-	-	290	1,338	-	-	-	-	1,630

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽²⁾ Includes geothermal and solar heat.
(3) Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.11 regarding electricity use in transport and 6.24 regarding renewables use in transport.

I.1 Aggregate energy balance 2006 **Net calorific values**

					N	<u> </u>				`
	Coal	Manufactured fuel (1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Owner		(-)		P • • • • • • • • • • • • • • • • • • •	9(-/	(-,				
Supply	40.047		70.044		70.044	0.070	47.000			400 770
Indigenous production	10,847	-	79,644	-	72,011	3,379	17,889	-	-	183,770
Imports	31,034	691	61,628	27,775	18,884	470	-	884	-	141,367
Exports	-325	-119	-52,099	-29,627	-9,332	-96	-	-238	-	-91,835
Marine bunkers		-		-2,331	-	-	-	-	-	-2,331
Stock change (4)	-768	-152	-370	-882	-498	-	-	-	-	-2,670
Primary supply	40,789	420	88,804	-5,065	81,065	3,754	17,889	646	-	228,302
Statistical difference (5)	-143	-5	-107	+119	+11	-	-	+9	-	-116
Primary demand	40,932	425	88,911	-5,185	81,054	3,754	17,889	637	-	228,418
Transfers	-	-105	-2,617	+2,661	-4	-	-759	+759	-	-65
Transformation	-39,384	1,705	-86,294	83,868	-25,803	-2,919	-17,130	33,070	1,305	-51,583
Electricity generation	-34,054	-948	-	-1,235	-24,099	-2,919	-17,130	33,070	-	-47,314
Major power producers	-33,197	-	-	-792	-21,525	-648	-17,130	30,412	-	-42,880
Autogenerators	-857	-948	-	-443	-2,574	-2,271	-	2,658	-	-4,435
Heat generation	-272	-48	-	-61	-1,704	-	-	-	1,305	-780
Petroleum refineries	-	-	-86,294	85,388	-	-	-	-	-	-906
Coke manufacture	-4,099	4,150	-	-	-	-	-	-	-	51
Blast furnaces	-775	-1,642	-	-224	-	-	-	-	-	-2,640
Patent fuel manufacture	-184	192	-	-	-	-	-	-	-	8
Other	-	-	-	_	_	-	-	-	-	-
Energy industry use	3	826	-	5,274	6,335	-	-	2,425	60	14,922
Electricity generation	-	-	-	, <u>-</u>	· -	-	-	1,591	-	1,591
Oil and gas extraction	-	-	-	437	5,359	-	_	47	-	5,843
Petroleum refineries	_	_	-	4,837	399	_	_	401	60	5,697
Coal extraction	3	_	-	-	9	_	_	89	-	100
Coke manufacture		377	_	_	_	_	_	8	_	386
Blast furnaces	_	448	_	_	47	_	_	43	_	538
Patent fuel manufacture		-			-			-		-
Pumped storage	_			_	-		_	92		92
	-	_	_	-	520	_	_		-	675
Other Losses	-	173	-	-	930	-	-	155 2,357	-	3,460
Final consumption	1,546	1,026		76.070	47,982	835		29,684		
Industry	1,105	820		76,070 5,716	11,185	186		9,879	1,245 809	158,389 29,702
Unclassified	1,103	213	_	2,625	4	186		3,013	003	3,028
	- 1	607	_			-	_	504	-	
Iron and steel			-	18	649	-	-		-	1,779
Non-ferrous metals	35	-	-	50	240	-	-	647	-	972
Mineral products	656	-	-	187	1,378	-	-	677	-	2,898
Chemicals	80	-	-	176	2,657	-	-	1,753	371	5,036
Mechanical engineering etc	9	-	-	99	633	-	-	730	2	1,473
Electrical engineering etc	4	-	-	79	304	-	-	631	-	1,018
Vehicles	35	-	-	116	733	-	-	494	-	1,378
Food, beverages etc	16	-	-	264	1,835	-	-	1,042	1	3,158
Textiles, leather etc	47	-	-	123	514	-	-	289	-	972
Paper, printing etc	94	-	-	55	1,278	-	-	1,110	22	2,560
Other industries	128	-	-	1,761	763	-	-	1,844	414	4,911
Construction	-	-	-	162	198	-	-	158	-	518
Transport (6)	13	-	-	55,747	-	180	-	344	-	56,285
Air	-	-	-	13,299	_	-	-	-	-	13,299
Rail	13	-	-	590	-	-	-	342	-	945
Road	-	-	_	40,162	-	180	-	2	-	40,344
National navigation	-	-	-	1,696	-	-	_	-	-	1,696
Pipelines	_	_	_		_	_	_	_	_	,
Other	427	206	_	4,502	36,184	469	_	19,461	436	61,686
Domestic	405	206	_	3,075	28,395	303	_	10,723	52	43,159
Public administration	12	-	_	458	3,545	75	_	1,721	376	6,187
Commercial	4	-	-	368	2,652	14	_	6,673	8	9,719
Agriculture	3	_	_	284	156	76	-	345	-	864
Agriculture Miscellaneous		-	-				-	343	-	
	3	-		317 10,104	1,437 612	-			-	1,758 10,717
Non energy use	-	-	-	10,104	012	-	-	-	-	10,717

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽²⁾ Includes geothermal and solar heat.
(3) Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.11 regarding electricity use in transport and 6.24 regarding renewables use in transport.

I.1 Aggregate energy balance 2005 Net calorific values

	Coal	Manufactured fuel (1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Cumply		()		•	3 ()					
Supply Indigenous production	12,078	_	88,110	_	79,397	3,116	19,044	_	_	201,745
Imports	27,107	623	61,042	23,226	13,413	419	13,044	960	-	126,791
Exports	-399	-89	-56,175	-30,495	-7,443	413	_	-244	-	-94,845
Marine bunkers	-	-	-	-2,044		_	_	2	_	-2,044
Stock change (4)	-1,335	-98	-396	+1,976	+102	_	_	_	_	+249
Primary supply	37,451	437	92,581	-7,337	85,470	3,534	19,044	715	-	231,895
Statistical difference (5)	+22	-7	-103	+448	+9			+20	_	+388
Primary demand	37,429	444	92,684	-7,785	85,461	3,534	19.044	696	-	231,507
Transfers	-	-114	-3,380	+3,389	-4		-674	+674		-109
Transformation	-35,815	1,654	-89,304	86,934	-27,406	-2,843	-18,370	33,327	1,366	-50,458
Electricity generation	-30,788	-971	-	-1,264	-25,666	-2,843	-18,370	33,327	-	-46,576
Major power producers	-29,952	-	_	-777	-22,879	-674	-18,370	30,564	_	-42,088
Autogenerators	-836	-971	_	-487	-2,787	-2,169		2,764	_	-4,488
Heat generation	-272	-48	_	-62	-1,740	_,	_	_,	1,366	-756
Petroleum refineries		-	-89,304	88,525	-,	_	_	-	-	-779
Coke manufacture	-3,851	3,930	-	-	_	_	-	_	_	79
Blast furnaces	-718	-1,446	_	-265	_	_	-	_	_	-2,429
Patent fuel manufacture	-187	190	_		_	_	-	_	_	3
Other	-	-	_	_	_	_	-	_	_	-
Energy industry use	4	777	-	6,078	6,745	-	-	2,337	98	16,038
Electricity generation	-	-	-	-	-	_	-	1,537	26	1,563
Oil and gas extraction	-	-	-	484	5,678	_	-	43	-	6,205
Petroleum refineries	-	-	-	5,594	400	_	-	383	71	6,448
Coal extraction	4	-	-	-	9	_	-	92	-	104
Coke manufacture	-	359	_	_	_	_	_	8	_	367
Blast furnaces	-	418	_	_	73	_	_	44	_	535
Patent fuel manufacture	_	-	_	_	-	_	_		_	-
Pumped storage	_	_	_	_	_	_	_	67	_	67
Other	_	_	_	_	586	_	_	162	_	748
Losses	_	207	_	_	848	_	-	2,380	_	3,435
Final consumption	1,610	1,001		76,460	50,458	691	_	29,981	1,268	161,468
Industry	1,121	787	-	5,887	11,719	176	-	9,976	831	30,496
Unclassified	, -	209	-	2,516	4	176	-	-	-	2,905
Iron and steel	-	578	_	16	654	-	_	432	_	1,679
Non-ferrous metals	23	-	_	50	245	_	_	661	_	980
Mineral products	702	_	_	206	1,416	_	_	686	_	3,010
Chemicals	80	_	_	191	2,792	_	_	1,816	392	5,271
Mechanical engineering etc	9	_	_	111	664	_	_	742	3	1,529
Electrical engineering etc	U				00 1					995
Elootiloai origiilooriilg oto	3	_	_	34	320	_	-	638	-	
Vehicles	3 36	-	-	34 131	320 771	-	-	638 502	-	
Vehicles Food beverages etc	36	-	- -	131	771	-	-	502	-	1,441
Food, beverages etc	36 18	- - -	- - -	131 307	771 1,929	-	- - -	502 1,055		1,441 3,309
Food, beverages etc Textiles, leather etc	36 18 47	- - - -	- - -	131 307 104	771 1,929 544	-	- - -	502 1,055 292	- 1 -	1,441 3,309 987
Food, beverages etc Textiles, leather etc Paper, printing etc	36 18 47 93	- - - -	- - - -	131 307 104 86	771 1,929 544 1,369	-	- - - -	502 1,055 292 1,137	- 1 - 31	1,441 3,309 987 2,715
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries	36 18 47	- - - - -	- - - -	131 307 104 86 1,956	771 1,929 544 1,369 805	-	- - - - -	502 1,055 292 1,137 1,848	- 1 -	1,441 3,309 987 2,715 5,124
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction	36 18 47 93 110	- - - - -	- - - - -	131 307 104 86 1,956	771 1,929 544 1,369	- - - - - - - - - - - - - - - - - - -		502 1,055 292 1,137 1,848 166	- 1 - 31	1,441 3,309 987 2,715 5,124 551
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6)	36 18 47 93	- - - - - -	-	131 307 104 86 1,956 177 55,203	771 1,929 544 1,369 805	- - - - - - 69	-	502 1,055 292 1,137 1,848	- 1 - 31	1,441 3,309 987 2,715 5,124 551 55,624
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air	36 18 47 93 110 - 3	- - - - - - -	-	131 307 104 86 1,956 177 55,203 13,163	771 1,929 544 1,369 805	-	-	502 1,055 292 1,137 1,848 166 349	- 1 - 31	1,441 3,309 987 2,715 5,124 551 55,624 13,163
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail	36 18 47 93 110	- - - - - - -	-	131 307 104 86 1,956 177 55,203 13,163 592	771 1,929 544 1,369 805	-	- - - - - - -	502 1,055 292 1,137 1,848 166 349 -	31 405 -	1,441 3,309 987 2,715 5,124 551 55,624 13,163 942
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road	36 18 47 93 110 - 3	- - - - - - - - -	-	131 307 104 86 1,956 177 55,203 13,163 592 40,165	771 1,929 544 1,369 805	- - 69	- - - - - - - -	502 1,055 292 1,137 1,848 166 349	- 1 - 31	1,441 3,309 987 2,715 5,124 551 55,624 13,163 942 40,236
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation	36 18 47 93 110 - 3	- - - - - - - - -	-	131 307 104 86 1,956 177 55,203 13,163 592	771 1,929 544 1,369 805	-	- - - - - - - - -	502 1,055 292 1,137 1,848 166 349 - 347	31 405 -	1,441 3,309 987 2,715 5,124 551 55,624 13,163 942
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines	36 18 47 93 110 - 3 - 3		-	131 307 104 86 1,956 177 55,203 13,163 592 40,165 1,283	771 1,929 544 1,369 805 207	- 69 -	- - - - - - - - - - -	502 1,055 292 1,137 1,848 166 349 - 347 2	- 1 - 31 405 - - - - -	1,441 3,309 987 2,715 5,124 551 55,624 13,163 ,942 40,236 1,283
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other	36 18 47 93 110 - 3 - 3 - - - -	- - - - - - - - 214	-	131 307 104 86 1,956 177 55,203 13,163 592 40,165 1,283	771 1,929 544 1,369 805 207 38,126	- 69 - - 446	- - - - - - - - - - - -	502 1,055 292 1,137 1,848 166 349 - 347 2 - - - 19,655	- 1 - 31 405 - - - - - - - - - -	1,441 3,309 987 2,715 5,124 551 55,624 13,163 942 40,236 1,283
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic	36 18 47 93 110 - 3 - 3 - - - 486 450	- - - - - - - - 214	-	131 307 104 86 1,956 177 55,203 13,163 592 40,165 1,283	771 1,929 544 1,369 805 207 38,126 29,552	- 69 - - 446 269	- - - - - - - - - - - - - - - - - - -	502 1,055 292 1,137 1,848 166 349 - 347 2 - - - 1 9,655 10,809	- 1 - 31 405 - - - - - - - - - - - - - - - - - - -	1,441 3,309 987 2,715 5,124 551 55,624 13,163 942 40,236 1,283
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	36 18 47 93 110 - 3 - 3 - - - 486 450 25		-	131 307 104 86 1,956 177 55,203 13,163 592 40,165 1,283 - 4,581 2,926 507	771 1,929 544 1,369 805 207 38,126 29,552 3,894	- 69 - - 446 269	- - - - - - - - - - - - - - - - - - -	502 1,055 292 1,137 1,848 166 349 - 347 2 19,655 10,809 1,722	- 1 - 31 405 - - - - - - - - - - - - - - - - - - -	1,441 3,309 987 2,715 5,124 551 55,624 13,163 942 40,236 1,283 - 63,946 44,272 6,619
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration Commercial	36 18 47 93 110 - 3 - 3 - 486 450 25 4		-	131 307 104 86 1,956 177 55,203 13,163 592 40,165 1,283 - 4,581 2,926 507 363	771 1,929 544 1,369 805 207 38,126 29,552 3,894 2,956	- 69 - - 446 269 95	-	502 1,055 292 1,137 1,848 166 349 - 347 2 19,655 10,809 1,722 6,780	1 - 31 405	1,441 3,309 987 2,715 5,124 551 55,624 13,163 942 40,236 1,283 - 63,946 44,272 6,619 10,126
Food, beverages etc Textiles, leather etc Paper, printing etc Other industries Construction Transport (6) Air Rail Road National navigation Pipelines Other Domestic Public administration	36 18 47 93 110 - 3 - 3 - - - 486 450 25		-	131 307 104 86 1,956 177 55,203 13,163 592 40,165 1,283 - 4,581 2,926 507	771 1,929 544 1,369 805 207 38,126 29,552 3,894	- 69 - - 446 269	-	502 1,055 292 1,137 1,848 166 349 - 347 2 19,655 10,809 1,722	- 1 - 31 405 - - - - - - - - - - - - - - - - - - -	1,441 3,309 987 2,715 5,124 551 55,624 13,163 942 40,236 1,283 - 63,946 44,272 6,619

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.
(2) Includes colliery methane.
(3) Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.11 regarding electricity use in transport and 6.24 regarding renewables use in transport.

I.1 Aggregate energy balance 2004

Net calorific values

	Coal	Manufactured	Primary	Petroleum	Natural	Bioenergy	Primary	Electricity	Heat	Total
	Coai	fuel(1)	oils	products	gas(2)	& waste(3)	•	Liectricity	Heat	Total
Committee										
Supply Indigenous production	11011		00 100		96 770	2 525	10 746			222 025
Indigenous production	14,814	-	99,180	-	86,770	2,525	18,746	044	-	222,035
Imports	22,285	724	64,803	19,109	10,295	337	-	841	-	118,396
Exports	-425	-123	-66,942	-31,265	-8,831	-	-	-197	-	-107,784
Marine bunkers	-	-	- 440	-2,088	-	-	-	-	-	-2,088
Stock change (4)	-53 36,621	-84 517	-140 96,900	-307 -14,551	-483 87,751	2 062	10 746	- 644		-1,067
Primary supply	•	517				2,862	18,746	644	-	229,492
Statistical difference (5)	+1	-52 FC0	-156	-46 -14.505	+54 87.697	- 2.002	40.740	+211	-	+12
Primary demand Transfers	36,620	569	97,057	,	- ,	2,862	18,746	433	-	229,480
Transfers	- 24 727	-118	-3,905 -93,152	+3,894	-3		-583 -18,163	+583	- 1,273	-132 -48,642
	-34,727	1,617 -908	-93,132	91,832	-28,065 -26,375	-2,320 -2,320	-18,163 -18,163	33,061	1,273	•
Electricity generation	-29,799	-906	-	-604				33,061		-45,108
Major power producers	-28,948 -852	-908	-	-144 -460	-23,564	-441 1 070	-18,163 -	30,246 2,815	-	-41,013
Autogenerators	-282		-	- 4 60 -67	-2,811	-1,878	-	2,013	1,273	-4,095 -814
Heat generation	-202	-48 -	02.452		-1,690	-	-	-	1,273	
Petroleum refineries Coke manufacture	-3,797	3,886	-93,152	92,794	-	-	-	-	-	-358 89
Blast furnaces	-3,797 -619	-1,541	-	-290	-	-	-	-	-	-2,451
Patent fuel manufacture	-229	-1,541 229	-	-290	-	-	-	-		-2,451
Other	-229	229	-	-	-	-	-	-	-	-
Energy industry use	5	804		5,437	6,846			2,291	16	15,399
Electricity generation	-	004	-	3,43 <i>1</i>	0,040	_	-	1,464	2	1,466
Oil and gas extraction				_	5,957	_	_	48	-	6,005
Petroleum refineries		_	_	5,435	238	_		402	14	6,000
Coal extraction	5			5,455	12	_	_	88	-	105
Coke manufacture	J	360	_	1	-	_	_	8	-	369
	-	441	-	1		-	-	o 40		
Blast furnaces	-		-	-	56	-	-	40	-	537
Patent fuel manufacture	-	3	-	-	-	-	-	-	-	3
Pumped storage	-	-	-	-	-	-	-	73	-	73
Other	-	-	-	-	583	-	-	167	-	750
Losses	4 000	194	-	- 75 705	635		-	2,642	4.050	3,472
Final consumption Industry	1,888 1,173	1,070 815	<u>-</u>	75,785 6,506	52,147 11,914	543 228	<u> </u>	29,144 9,584	1,258 832	161,835 31,053
Unclassified	1,173	239	-	2,477	11, 914 5	228		9,364	-	2,949
	-			•		220	-	405	-	-
Iron and steel	-	575	-	33	752	-	-	465		1,825
Non-ferrous metals	7	-	-	49	248	-	-	642	-	946
Mineral products	713	-	-	189	1,037	-	-	648	-	2,587
Chemicals	89	-	-	191	3,250	-	-	1,714	394	5,637
Mechanical engineering etc.	10	-	-	110	666	-	-	723	2	1,511
Electrical engineering etc.	3	-	-	36	322	-	-	568	-	929
Vehicles	53	-	-	103	791	-	-	480	-	1,427
Food, beverages, etc.	25	-	-	324	2,185	-	-	1,036	2	3,572
Textiles, leather, etc.	55	-	-	69	551	-	-	287	-	962
Paper, printing etc.	92	-	-	55	1,074	-	-	1,132	27	2,380
Other industries	127	-	-	2,724	806	-	-	1,734	407	5,797
Construction	-	-	-	147	227	-	-	155	-	529
Transport (6)	-	-	-	53,950	-	-	-	349	-	54,298
Air	-	-	-	12,263	-	-	-	-	-	12,263
Rail	-	-	-	658	-	-	-	347	-	1,005
Road	-	-	-	39,904	-	-	-	2	-	39,906
National navigation	-	-	-	1,124	-	-	-	-	-	1,124
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	715	255	-	4,439	39,458	314	-	19,211	425	64,818
Domestic	696	255	-	3,090	30,677	143	-	10,679	52	45,592
Public administration	9	-	-	474	4,019	95	-	1,733	368	6,698
Commercial	3	-	-	392	2,909	14	-	6,451	5	9,775
Agriculture	5	-	-	258	182	63	-	348	-	855
Miscellaneous	1		-	226	1,671					1,898
Non energy use	-	-	-	10,890	775	-	-	-	-	11,665

⁽¹⁾ Includes all manufactured solid fuels, benzole, tars, coke oven gas and blast furnace gas.

⁽²⁾ Includes colliery methane.

⁽³⁾ Includes geothermal and solar heat.
(4) Stock fall (+), stock rise (-).
(5) Primary supply minus primary demand.
(6) See paragraphs 5.11 regarding electricity use in transport and 6.24 regarding renewables use in transport.

Annex J

Heat reconciliation

Introduction

J.1 Heat sold has been separately identified in the energy balances since 1999. It is defined as heat that is produced and sold under the provision of a contract. The introduction of heat sold into the energy and commodity balances did not affect the individual fuel totals, since the energy used to generate the heat has been deducted from the final consumption section of the energy balances and transferred to the transformation section. The tables show the detailed analysis of the heat generation row of the main energy balances, by sector generating the heat.

Methodology

- J.2 The heat data are derived from two sources covering CHP plants and heating schemes without CHP plants. Data for heat sold are supplied by CHP plants to the Combined Heat and Power Quality Assurance Programme and are processed by Ricardo-AEA. Data for heat consumption from other heating schemes were derived from the Building Research Establishment's "National Survey of Community Heating" that was carried out in 1997, a database of community heating schemes in social housing in 2000, and Community Heating Sales Surveys undertaken between 2003 and 2005. The estimates from these sources have been used to derive heat sold figures since 1999; it is recommended that the figures should be treated as indicative of the amount of heat sold.
- J.3 To make the heat sold information more transparent, data on the quantity of fuel by consuming sector used to produce heat that is subsequently sold are being made available in the tables that accompany this annex. When producing the energy and commodity balances the quantities of fuel shown in the tables have been deducted from the final consumption section and moved to the transformation section.

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	ktonnes	GWh	GWh		ktonnes	ktonnes	ktonnes	ktoe
	Coal	Coke oven	Blast	Natural	Fuel oil	Gas oil	Propane	Solid waste
		gas	furnace gas	gas				and biomass
Supply	-	-	-	-	-	-	-	-
Indigenous production	_	-	_	-	-	-	_	
Imports	_	-	_	-	-	-	_	-
Exports	_	_	_	_	_	_	_	_
Marine bunkers	_	_	_	_	_	_	_	_
Stock change	_	_	_	_	_	_	_	_
Primary supply	_	_		_	_	_		
Statistical difference					-		_	
Primary demand								
Transfers	-	-	-	-	-	-	-	-
Transformation	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-
Autogenerators	-	-	-	-	-	-	-	-
Heat generation	-592	-418	-179	-22,392	-53	-5	-10	-114
Petroleum refineries	-	-	-	-	-	•	-	
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-
Petroleum refineries	-		-	2,668	-	-	10	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	_		-	_	-		-	
Patent fuel manufacture	_		-	_	-		-	
Pumped storage	_		-	_	-		-	
Other	_		_	_	_	_	_	
Losses	_		_	_	_	_	_	
Final consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Unclassified	_	62	_	_	_	_	_	_
Iron and steel	_	357	179	395	4	0	_	_
Non-ferrous metals	17	-	-	213	1	0	_	_
Mineral products		_	_	237	4	0	_	_
Chemicals	398	_	_	4,442	20	0	_	32
Mechanical engineering etc	1	_	_	234	2	0	_	-
Electrical engineering etc	0	_	_	61	1	0	_	_
Vehicles	7	•	-	474	3	0	-	•
	24	•	-	1,335	8	0	-	•
Food, beverages etc		-		•			-	•
Textiles, leather etc	3	-	-	159	2	0	-	-
Paper, printing etc	7	-	-	1,483	4	0	-	-
Other industries	3	-	-	2,258	3	4	-	-
Construction	-	-	-	0	1	-	-	-
Transport	-	-	-	-	-	-	-	-
Air	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Domestic	-	-	-	-	-	-	-	-
Public administration	130	-	-	4,227	-	0	-	12
Commercial	2	-	-	4,207	-	1	-	20
Agriculture	-	-	-	-	-	-	-	51
Miscellaneous	-		-	-	-	-	-	-
Non energy use	-	_	-	_	-	_	_	_

	ktonnes	GWh	GWh	GWh	ktonnes	ktonnes	ktonnes	ktoe
	Coal	Coke oven	Blast	Natural	Fuel oil	Gas oil	Propane	Solid waste
		gas	furnace gas	gas				and biomass
Supply	-		-	-		-		-
Indigenous production	-	-	-	_	-	-	_	
Imports	-	-	-	_	-	-	_	
Exports	_		_	_	_	_	_	_
Marine bunkers	_		_		_	_	_	
Stock change	_	_	_	_	_	_	_	_
Primary supply	_			_	_		_	
Statistical difference	_	_	-	-	-	_	_	
Primary demand		-	-		-	-	-	
T								
Transfers	-	-	-	-	-	-	-	-
Transformation	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-
Autogenerators			-	-	-	•	-	
Heat generation	-562	-418	-179	-22,936	-52	-6	-13	-97
Petroleum refineries	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use	-	-	-	-	-	-	-	-
Electricity generation	-		-	-	-	-	-	-
Oil and gas extraction	-		-	-	-	-	-	-
Petroleum refineries	-	-	-	2,734	-	0	13	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Losses	-	-	-	-	-	-	-	
Final consumption	-	-	-	-	-	-	-	-
Industry	-	-	-	-	-	-	-	-
Unclassified	-	62	-	-	-	-	-	-
Iron and steel	-	357	179	395	4	0	-	-
Non-ferrous metals	17	-	-	213	1	0	-	-
Mineral products	-	-	-	237	4	0	-	-
Chemicals	367	-	-	4,959	20	0	-	32
Mechanical engineering etc	1	-	-	234	2	0	-	-
Electrical engineering etc	0	-	-	61	1	0	-	-
Vehicles	7	-	-	474	3	0	-	-
Food, beverages etc	24	-	-	1,324	8	0	-	-
Textiles, leather etc	3	-	-	159	2	0	-	-
Paper, printing etc	7	-	-	1,465	4	0	_	-
Other industries	3	-	-	2,258	3	4	-	-
Construction	-	_	-	0	1	_	_	-
Transport	_		-	-		_	_	-
Air	_	_	_	_	-	-	_	-
Rail	_	_	_	_	-	-	_	-
Road	-	_	-	_	-	-	_	_
National navigation	-	_	-	_	-	-	_	-
Pipelines	_	_	-	_	_	_	_	_
Other	_	-	-	-	-	-	-	-
Domestic	-	-	-	-	-	-	-	-
	120	-	-		-	-	-	- 44
Public administration	130	-		4,227	-	0	-	11
Commercial	2	-	-	4,198	-	1	-	20
Agriculture	-	-	-	-	-	-	-	35
Miscellaneous	_		-	_	_	_	_	_

	ktonnes	GWh	GWh		ktonnes	ktonnes	ktonnes	ktoe
	Coar C	oke oven	Blast furnace	Natural gas	Fuel oil	Gas oil	Propane	Solid waste and
		3	gas	3				biomass
Supply	-	-	-	-	-	-	-	-
Indigenous production	-	-	-	-	-	-	-	-
Imports	-	-	-	-	-	-	-	-
Exports	-	-	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	-	-	
Stock change	-	-	-	-	-	-	-	-
Primary supply	-	-	-	-	-	-	-	-
Statistical difference	-	-	-	-	-	-	-	-
Primary demand	-	-	-	-	-	-	-	-
Transfers	-	-	-	-	-	-	-	-
Transformation	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-
Autogenerators	-	-	-	-	-	-	-	-
Heat generation	-477	-418	-179	-23,707	-52	-5	-5	-41
Petroleum refineries	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use								
Electricity generation	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	1,483	-	-	5	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Losses	-		-	-	-	-	-	
Final consumption		•		-		•	-	
Industry	-	-	-	-	-	-	-	-
Unclassified	-	62	-	-	-	-	-	-
Iron and steel	-	357	179	395	4	0	-	-
Non-ferrous metals	17	-	-	213	1	0	-	-
Mineral products	-	-	-	237	4	0	-	-
Chemicals	284	-	-	6,935	20	0	-	32
Mechanical engineering etc	1	-	-	234	2	0	-	-
Electrical engineering etc	0	-	-	61	1	0	-	-
Vehicles	7	-	-	474	3	0	-	-
Food, beverages etc	24	-	-	1,317	8	0	-	-
Textiles, leather etc	3	-	-	159	2	0	-	-
Paper, printing etc	7	-	-	1,461	4	0	-	-
Other industries	3	-	-	2,258	3	4	-	-
Construction	-	-	-	0	1	-	-	-
Transport	-	-	-	-	-	-	-	
Air	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Domestic	-	-	-	-	-	-	-	-
Public administration	130	-	-	4,296	-	0	-	2
Commercial	-	-	-	4,186	-	1	-	7
Agriculture	-	-	-	-	-	-	-	-
Miscellaneous	-	-	-	-	-	-		-
Non energy use	_	-	-	-	-	-	-	_

	ktonnes	GWh	GWh		ktonnes	ktonnes	ktonnes	ktoe
	Coal	Coke oven	Blast furnace	Natural gas	Fuel oil	Gas oil	Propane	Solid waste and
		guo	gas	940				biomass
Supply	-	-	-	-	-	-	-	-
Indigenous production	-	-	-	-	-	-	-	-
Imports	-	-	-	-	-	-	-	-
Exports	-	-	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	-	-	-
Stock change	-	-	-	-	-	-	-	-
Primary supply		-	-	-				
Statistical difference	-	-	-	-	-	-	-	-
Primary demand	-	-	-	-	-	-	-	-
Transfers	_	_	_	_	_	_	_	_
Transformation	_	_	_	_	_	_	_	
Electricity generation	_	_	_	_	_	_	_	_
Major power producers	_		_	_	_	_	_	
Autogenerators	_		_	_	_	_	_	
Heat generation	-482	-418	-179	-22,758	-52	-5	-5	-79
Petroleum refineries	-402	-410	-173	-22,730	-32	-3	-3	-13
Coke manufacture	_		_	_	_	_	_	
Blast furnaces	_		_	_	_	_	_	_
Patent fuel manufacture		_	_	_	_		_	_
Other			_	_	_	_	_	
Energy industry use								
Electricity generation	_		_	_	_	_	_	_
Oil and gas extraction		-	-	_	-		_	
Petroleum refineries			_	1,400	_	_	5	
Coal extraction				1,400	_	_	-	
Coke manufacture	_		-		-	-	-	
Blast furnaces	_		-	_		-	-	
Patent fuel manufacture	_		-		-	-	-	
Pumped storage			_	_	_	_	_	_
Other	_		-		-	-	-	
Losses			-	_		-	-	_
Final consumption	_			_	_	_	_	_
Industry								
Unclassified	_	62	_	_	_	_	_	
Iron and steel	_	357	179	395	4	0	_	
Non-ferrous metals	17	-	-	213	1	0	_	_
Mineral products			_	237	4	0	_	
Chemicals	287			5,991	20	0		31
Mechanical engineering etc	1			274	2	0		-
Electrical engineering etc	0			61	1	0		
Vehicles	7	-	-	474	3	0	-	-
Food, beverages etc	24		_	1,320	8	0		
Textiles, leather etc	3	_	_	159	2	0	_	_
Paper, printing etc	7		_	1,441	4	0		
Other industries	3	-	-	2,258	3	4	-	-
Construction		-	-	2,236	1	-	-	
Transport	-			-		-	-	-
Air	-	-	-	-		-	-	-
Rail	-	-	-	-		-	-	-
Road	-	-	-	-		•	-	-
	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other	-	-	-	-			-	-
Domestic Public administration	400	-	-	4.456	-	-	-	-
Public administration	130 2	-		4,456	-	0	-	11
Commercial		-	-	4,080	-	0	-	36
Agriculture	-	-	-	-	-	-	-	-
Miscellaneous	-	-	-	-			-	-

Supply Indigenous production Imports Exports Marine bunkers Stock change Primary supply Statistical difference Primary demand Transfers Transformation		Coke oven gas	Blast furnace gas	Natural gas - - - - -		Gas oil	Propane - - -	Solid waste
Indigenous production Imports Exports Marine bunkers Stock change Primary supply Statistical difference Primary demand Transfers	- - - - -		gas	- - - -	- - - -	- - -	- - -	- - -
Indigenous production Imports Exports Marine bunkers Stock change Primary supply Statistical difference Primary demand Transfers	- - - - -	- - - - -	- - - -	- - -	- - - -	- - -	-	-
Imports Exports Marine bunkers Stock change Primary supply Statistical difference Primary demand Transfers	-	-	-	- - - -	- - -	-	-	-
Exports Marine bunkers Stock change Primary supply Statistical difference Primary demand Transfers	-	-	-	- - -	- - -	-	-	-
Marine bunkers Stock change Primary supply Statistical difference Primary demand Transfers	-	-	-	-	-	-		
Stock change Primary supply Statistical difference Primary demand Transfers	-	-	-	-	-		-	-
Primary supply Statistical difference Primary demand Transfers	-	-	-	-		-	-	-
Statistical difference Primary demand Transfers	-	-			-	-	-	-
Primary demand Transfers				-	-	-	-	-
Transfers	<u>-</u>	-	-	-	-	-	-	-
	-		-	-	-	-	-	-
Transformation		_	_	_	_	_	_	
	-	-	-	-	-	-	-	_
Electricity generation	-	-	-	-	-	-	-	_
Major power producers	_	_	_	_	_	_	_	_
Autogenerators	_	_	_	_	_	_	_	_
Heat generation	-503	-418	-179	-25,426	-52	-5	-5	-49
Petroleum refineries	-	-	-	-	-	-	-	-
Coke manufacture	_	_	_	_	_	_	_	_
Blast furnaces		-	-	-	-	-	-	-
Patent fuel manufacture		-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use		-			-	-	-	
-				_		_		
Electricity generation	-	-		-	-	-	-	-
Oil and gas extraction Petroleum refineries	-	•	-	804	-	-	- 5	-
	-	-	-	004	-	-	5	-
Coal extraction	-	-	-			-	-	-
Coke manufacture	-	-				-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Losses Final consumption		-	-	-	-	•	-	
Final consumption Industry								
Unclassified	_	62	_	_	-	-		
Iron and steel		357	179	395	4	0	-	
Non-ferrous metals	- 17	337	179	213	1	0	-	-
Mineral products	17	-	-	237	4	0	-	•
Chemicals	309	-	-		20	0	-	31
		-	-	9,159			-	
Mechanical engineering etc	1	-	-	285	2	0	-	1
Electrical engineering etc	0	-	-	61	1	0	-	-
Vehicles	7	-	-	474	3	0	-	-
Food, beverages etc	24	-	-	1,400	8	0	-	-
Textiles, leather etc	3	-	-	159	2	0	-	-
Paper, printing etc	7	-	-	1,464	4	0	-	-
Other industries	3	-	-	2,258	3	4	-	-
Construction	-	-	-	0	1	-	-	-
Transport	-	-	-	-	-	-	-	-
Air	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Domestic	-	-	-	-	-	-	-	-
Public administration	130	-	-	4,327	-	0	-	2
Commercial	3	-	-	4,190	-	0	-	14
Agriculture	-	-	-	-	-	-	-	-
Miscellaneous	-	-	-	-	-	-	-	-

Supply Indigenous production Imports Exports Marine bunkers Stock change Primary supply Statistical difference Primary demand		Coke oven gas	Blast furnace gas	Natural gas		Gas oil	Propane - - -	Solid waste
Indigenous production Imports Exports Marine bunkers Stock change Primary supply Statistical difference	- - - - - -		gas	- - - -	- - -	- - - -	- - -	- - -
Indigenous production Imports Exports Marine bunkers Stock change Primary supply Statistical difference	- - - - - -	- - - - -	- - - - -	- - - -	- - -	- - -	- - -	- - -
Imports Exports Marine bunkers Stock change Primary supply Statistical difference	-	-	-		- - -	- - -	-	-
Exports Marine bunkers Stock change Primary supply Statistical difference	-	-	-		-	-	-	-
Marine bunkers Stock change Primary supply Statistical difference	-	-	-		-	-	-	-
Stock change Primary supply Statistical difference	-	-	-		-	_		
Primary supply Statistical difference	-	-	-		-		-	-
Statistical difference	-	-	-	-		-	-	-
					-	-	-	-
Primary demand	-	-		-	-	-	-	-
1 milary demand	-			-	-	-	-	-
Transfers	_	_	_	_	_	_	_	_
Transformation		_	_	_	_	_	_	_
Electricity generation	_		_		_			
Major power producers	_	_	_	_	_	_	_	_
	_	_	_	_	_	_	_	_
Autogenerators	405	410	170	22.640	-	-	-	40
Heat generation	-485	-418	-179	-23,640	-53	-5	-4	-48
Petroleum refineries	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	
Energy industry use								
Electricity generation	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	783	-	-	4	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Losses	-	-	-	-	-	-	-	-
Final consumption								
Industry								
Unclassified	-	62	-	-	-	-	-	31
Iron and steel	-	357	179	395	4	-	-	-
Non-ferrous metals	17	-	-	213	1	-	-	-
Mineral products	-	-	-	237	4	-	-	-
Chemicals	294	-	-	7,485	20	-	-	-
Mechanical engineering etc	1	_	_	277	2	-	-	-
Electrical engineering etc	-	-	-	61	1	-	-	-
Vehicles	7	-	-	474	3	-	-	-
Food, beverages etc	24	-	-	1,329	8	-	-	-
Textiles, leather etc	3	_	_	159	2	_	_	_
Paper, printing etc	7	_	_	1,506	4	_	_	_
Other industries	3	_	_	2,258	3	4	_	
Construction	-	_	-	2,230	1	-	_	
Transport	-	-	=	-	'	=	-	-
Air				_	_			
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other								
Domestic	-	-	-	-	-	-	-	-
Public administration	130	-	-	4,289	-	-	-	10
Commercial	-	-	-	4,175	-	1	-	6
Agriculture	-	-	-	-	-	-	-	-
Miscellaneous	-	-	-	-	-	-	-	-
Non energy use	-	-	-	-	-	-	-	

	ktonnes	GWh	GWh	GWh		ktonnes	ktonnes	ktoe
	Coai	Coke oven	Blast furnace	Natural gas	Fuel oil	Gas oil	Propane	Solid waste
		90	gas	90				
Supply	-	-	-	-	-	-	-	-
Indigenous production	-	-	-	-	-	-	-	-
Imports	-	-	-	-	-	-	-	-
Exports	-	-	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	-	-	-
Stock change	_	-	_	-	-	-	-	_
Primary supply				_	-			-
Statistical difference	_	-	_	_	_	_	_	_
Primary demand	-	-	-	-	-	-	-	-
Transfers	-	-	-	-	-	-	-	-
Transformation	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-
Autogenerators	-	-	-	-	-	-	-	-
Heat generation	-457	-418	-179	-22,023	-53	-6	-4	-54
Petroleum refineries	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	_	_	-	_	-	-	-	_
Other	_	-	-	_	-	-	-	-
Energy industry use								
Electricity generation	_	_	_	_	_	_	_	
Oil and gas extraction	_	_	_	_	_	_	_	
Petroleum refineries				683			4	
Coal extraction	•	-	-	-	•	-	4	
	-	•	-	-	-	-	-	•
Coke manufacture	-	•	-	-	-	-	-	•
Blast furnaces	-	•	•	-	-	•	•	-
Patent fuel manufacture	-	-	-	-	-	•	-	-
Pumped storage	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Losses	-	-	-	-	-		-	-
Final consumption								
Industry								
Unclassified	-	62	-	-	-	-	-	-
Iron and steel	-	357	179	395	4	-	-	-
Non-ferrous metals	17	-	-	213	1	-	-	-
Mineral products	-	-	-	237	4	-	-	-
Chemicals	266	-	-	5,816	20	-	-	31
Mechanical engineering etc	1	-	-	234	2	-	-	5
Electrical engineering etc	-	-	-	61	1	-	-	-
Vehicles	7	_	_	474	3	-	_	-
Food, beverages etc	24	-	_	1,312	8	-	-	_
Textiles, leather etc	3	_	_	159	2	_	_	_
Paper, printing etc	7	_	-	1,744	4	-	_	_
Other industries	3	-	-	2,258	3	4	-	1
	-	-		2,258	3 1	4	-	1
Construction	-	-	-	-	1	-	-	-
Transport								
Air	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other								
Domestic	-	-	-	-	-	-	-	-
Public administration	130	-	-	4,270	-	-	-	11
Commercial	-	-	-	4,167	-	1	-	5
Agriculture	-	-	-	-	-	-	-	-
Miscellaneous	_	_	-	_	_	-	-	_
	_	_		_	_			

	ktonnes	GWh	GWh	GWh		ktonnes	ktonnes	Solid
	Coai	Coke oven	Blast furnace	Natural gas	Fuel oil	Gas oil	Propane	waste
		3	gas	3				
Supply	-	-	-	-	-	-	-	-
Indigenous production	-	-	-	-	-	-	-	-
Imports	-	-	-	-	-	-	-	-
Exports	-	-	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	-	-	-
Stock change	-	-	-	-	-	-	-	-
Primary supply	-	-	-	-	-	-	-	-
Statistical difference	-	-	-	_	-	-	-	-
Primary demand	-	-	-	-	-	-	-	-
Transfers		-	_	_	_	_	_	_
Transformation	_	_	_	_	_	_	_	_
Electricity generation			_		_			
Major power producers	_	_	_	_	_	_	_	_
	_	_	_	_	_	_	_	_
Autogenerators	450	- 440	470	-22,488	-	-	-	-
Heat generation	-459	-418	-179	-	-52	-6	-39	-36
Petroleum refineries	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use								
Electricity generation	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	810	-	-	4	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-		-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-
Other	-		-	-	-	-		-
Losses	-	-	-	-	-	-	-	-
Final consumption								
Industry								
Unclassified	-	62	-	-	-	-	-	-
Iron and steel	-	357	179	395	4	-	-	-
Non-ferrous metals	17	-	-	213	1	-	-	-
Mineral products	_	-	-	237	4	-	-	-
Chemicals	267	-	-	5,850	20	-	34	31
Mechanical engineering etc	1	_	_	246	2	_	_	5
Electrical engineering etc	_	_	_	61	1	_	_	_
Vehicles	7		_	474	3			
Food, beverages etc	24	_	_	1,313	8	_	_	_
Textiles, leather etc	3		_	1,515	2	-		
	3 7	-	-		4	-	-	-
Paper, printing etc		-	-	1,960		-	-	-
Other industries	3	-	-	2,258	3	4	-	-
Construction	-	-	-	-	1	-	-	-
Transport								
Air	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other								
Domestic	-	-	-	-	-	-	-	-
Public administration	130	-	-	4,369	-	-	-	-
Commercial	-	-	-	4,145	-	1	-	-
Agriculture	-	-	-	-	-	-	-	-
Miscellaneous	_	_	-	_	-	-	-	-
Non energy use			_	_			_	

	ktonnes	GWh	GWh Blast	GWh	ktonnes	ktonnes	ktonnes	ktoe Solid
	Coal	Coke oven gas	furnace	Natural gas	Fuel oil	Gas oil	Propane	waste
		gas	gas	gas				waste
Supply	-	-	-	-	-	-	-	-
Indigenous production	-	-	-	-	-	-	-	-
Imports	-	-	-	-	-	-	-	-
Exports	-	-	-	-	-	-	-	-
Marine bunkers	-	-	_	-	-	_	_	_
Stock change	-	-	_	-	-	_	_	_
Primary supply				-	-			
Statistical difference	-	-	-	-	-	-	-	-
Primary demand	-	-	-	-	-	-	-	-
Transfers		_		_	_			_
Transformation								
Electricity generation	-	•	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-
Autogenerators	-	-	-	-	-	-	-	-
Heat generation	-473	-418	-179	-21,844	-52	-16	-1	-39
Petroleum refineries	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use								
Electricity generation	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	162	-	-	1	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces			-	-	-			-
Patent fuel manufacture	-		-	_	-			
Pumped storage		_	_	_	_			_
Other			_	_	_	_		_
Losses	_	_	_	_	_	_	_	
Final consumption								
Industry								
Unclassified	_	62	_	_	_	_	_	_
Iron and steel	_	357	179	395	4	_	_	_
Non-ferrous metals	37	-		213	1	_	_	
	-			237	4			
Mineral products	209	-	-	6.080		2	-	-
Chemicals		-	-	-,	20	2	-	31
Mechanical engineering etc	1	-	-	269	2	-	-	-
Electrical engineering etc	-	-	-	61	1	-	-	-
Vehicles	7	-	-	474	3	-	-	-
Food, beverages etc	27	-	-	1,314	8	-	-	-
Textiles, leather etc	3	-	-	159	2	-	-	-
Paper, printing etc	17	-	-	1,813	4	-	-	-
Other industries	43	-	-	2,296	3	4	-	-
Construction	-	-	-	-	1	-	-	-
Transport								
Air	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	_	-	_	-	-	-	-
Other								
Domestic	_	_	_	_	_	-	-	_
Public administration	130	-	-	4,281	_	8	_	_
	130	-	-		-	1	-	7
Commercial	-	-	-	4,090	-	1	-	1
Agriculture	-	-	-	-	-	-	-	-
Miscellaneous	-	-	-	-	-	-	-	-
Non energy use	-	-	-	-	-	-	-	-

	ktonnes	GWh	GWh	GWh	ktonnes	ktonnes	ktonnes	ktoe
	Coal	Coke oven	Blast	Natural	Fuel oil	Gas oil	Propane	Solic
		gas	furnace gas	gas				waste
Supply	-	-	-	-	-	-	-	-
Indigenous production	-	-	-	-	-	-	-	
Imports	-	-	-	-	-	-	-	-
Exports	-	-	-	-	-	-	-	-
Marine bunkers	-	_	-	_	-	_	_	_
Stock change	-	_	-	_	-	_	_	_
Primary supply	-			_				-
Statistical difference	_	-	-	-	-	-	-	_
Primary demand		-		-				
Transfers	-	-	-	-	-	-	-	-
Transformation	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-
Major power producers	-	_	-	-	-	_	_	-
Autogenerators	-	_	-	-	-	_	_	-
Heat generation	-622	-1,055	-299	-19,830	-133	-18	-1	-64
Petroleum refineries	-	-		-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	_	_	_	_	_	_	_	_
Patent fuel manufacture	-	_	-	-	-	_	-	
Other	-	-	-	-	-	-	-	-
Energy industry use								
Electricity generation	-	•	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Losses	-		-	-	-		-	-
Final consumption								
Industry								
Unclassified	-	201	-	-	-	-	1	64
Iron and steel	-	854	299	132	7	-	-	-
Non-ferrous metals	58	-	-	-	-	-	-	-
Mineral products	-	_	-	-	-	_	_	-
Chemicals	306	_	-	3,757	14	_	_	_
Mechanical engineering etc	2	_	_	239	6	1	_	_
Electrical engineering etc	1	_	_		3	_	_	_
Vehicles	18	_	_	_	2	_	_	_
Food, beverages etc	22	_	_	735	22	1	_	
	1	_	_	-	-		_	_
Textiles, leather etc		-					-	-
Paper, printing etc	25	-		1,662	6	-	-	-
Other industries	48	-	-	2,380	33	9	-	-
Construction	-	-	-	-	-	-	-	-
Transport								
Air	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other								
Domestic	-	-	-	-	-	-	-	-
Public administration	141	-	-	5,713	34	4	-	-
Commercial	-	-	-	5,212	6	3	-	-
Agriculture	-	-	-	-	-	-	-	-
Miscellaneous	-	_	-	-	-	_	_	-
	-		-	-	-	_		

	ktonnes	GWh Coke oven	GWh Blast	GWh Natural	ktonnes Fuel oil	Gas oil	ktonnes	ktoe Solid
	Coai		furnace	naturai gas	ruei oii	Gas oii	Propane	waste
			gas					
Supply	-	-	-	-	-	-	-	-
Indigenous production	-	-	-	-	-	-	-	-
Imports	-	-	-	-	-	-	-	-
Exports	-	-	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	-	-	
Stock change Primary supply								
Statistical difference								
Primary demand								
T								
Transfers Transformation	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-
Autogenerators	717	1 496	422	- 22 000	-	-	-	-
Heat generation	-717	-1,486	-422	-22,009	-227	-23	-	-63
Petroleum refineries	-	-	-	-	-	-	-	-
Coke manufacture Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	•	-	-	-	-	-	-	-
Energy industry use								
			_	_				
Electricity generation Oil and gas extraction	-	-	-	-		-	-	-
Petroleum refineries	-	-	-	-	-	-	_	
Coal extraction	_	_	-		-	-		-
Coke manufacture	_		_	_	_	_	_	_
Blast furnaces	_		-	_	_	-	_	_
Patent fuel manufacture	_	_	_	_	_	_	_	_
Pumped storage	_		-	_		_	_	_
Other	_		_	_	_	_		_
Losses	_	_	_	_	_	_	_	_
Final consumption								
Industry								
Unclassified	-	283	-	-	-	-	-	63
Iron and steel	-	1,203	422	185	11	-	-	-
Non-ferrous metals	81	-	-	-	-	-	-	-
Mineral products	-	-	-	-	-	-	-	-
Chemicals	299	-	-	4,817	23	1	-	-
Mechanical engineering etc	2	-	-	268	11	1	-	-
Electrical engineering etc	2	-	-	-	4	-	-	-
Vehicles	25	-	-	-	4	-	-	-
Food, beverages etc	29	-	-	1,035	38	1	-	-
Textiles, leather etc	2	-	-	-	-	-	-	-
Paper, printing etc	45	-	-	2,076	11	-	-	-
Other industries	68	-	-	2,576	57	12	-	-
Construction	-	-	-	-	-	-	-	-
Transport								
Air	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other								
Domestic	-	-	-	-	-	-	-	-
Public administration	163	-	-	6,017	57	5	-	-
Commercial	-	-	-	5,035	10	2	-	-
Agriculture Miscellaneous	-	-	-	-	-	-	-	-

	ktonnes	GWh	GWh	GWh	ktonnes	ktonnes	ktonnes	ktoe
	Coai	Coke oven	Blast furnace	Natural gas	Fuel oil	Gas oil	Propane	Solid waste
		90	gas	90				
Supply	-	-	-	-	-	-	-	-
Indigenous production	-	-	-	-	-	-	-	-
Imports	-	-	-	-	-	-	-	-
Exports	-	-	-	-	-	-	-	-
Marine bunkers	-	-	-	-	-	-	-	-
Stock change	_	_	_	-	-	-	_	-
Primary supply	-	-	-	-	-	-	-	-
Statistical difference	-	-	-	-	-	-	-	-
Primary demand	-	-	-	-	-	-	-	-
Transfers		_	_	_	_	_	_	
Transformation			_					
Electricity generation	_	_	_	_	_	_	_	_
	•	-	-	-	-	-	-	
Major power producers	-	-	-	-	-	-	-	-
Autogenerators	750	4.075	-	-	-	-	-	-
Heat generation	-750	-1,875	-532	-23,586	-640	-31	-1	-72
Petroleum refineries	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use								
Electricity generation	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Pumped storage		-	-	_	-		-	-
Other		_	_	_	_	_	_	_
Losses		_	_	_	_	_	_	
Final consumption								
Industry								
Unclassified	-	357	-	-	-	-	1	72
Iron and steel	-	1,518	532	200	33	-	-	-
Non-ferrous metals	59	_	_		-	_	-	_
Mineral products	_	_	_	_	-	_	_	_
Chemicals	298	_	_	3,977	51	1	_	_
Mechanical engineering etc	3	_	_	365	31	2	_	_
Electrical engineering etc	1	_	_	-	12	-	_	_
Vehicles	17	_	_	_	11	_	_	
Food, beverages etc	58	_	-	923	111	1	_	_
	12	-		-	-		-	
Textiles, leather etc		-	-			-	-	-
Paper, printing etc	44	-	-	1,838	31	-	-	-
Other industries	35	-	-	2,380	165	16	-	-
Construction	-	-	-	-	-	-	-	-
Transport								
Air	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other								
Domestic	-	-	-	-	-	-	-	-
Public administration	223	-	-	7,649	166	7	-	-
Commercial	-	-	-	6,253	29	4	-	-
Agriculture	-	-	-	-	-	-	-	-
Miscellaneous	_	_	-	_	_	-	-	-
Non energy use				_	_			

	ktonnes	GWh	GWh	GWh	ktonnes	ktonnes	ktonnes	ktoe
		Coke oven	Blast		Fuel oil	Gas oil	Propane	Solid
		gas	furnace	gas				waste
Supply			gas -					
Indigenous production			-		-			
	-	-	•	-	-	•	-	-
Imports Exports	-	-	•	-	-	•	-	-
Marine bunkers	_	_	_	_	_	_	_	_
	-	-	•	-	-	•	-	-
Stock change Primary supply		-		<u> </u>				-
Statistical difference	•	-	-	-	-	-		
Primary demand	-	-	-	-	-	-	-	
1 mary demand	-	-	-	-	-	-	-	
Transfers	-	-	-	-	-	-	-	-
Transformation	-	-	-	-	-	-	-	-
Electricity generation	-	-	-	-	-	-	-	-
Major power producers	-	-	-	-	-	-	-	-
Autogenerators	-	-	-	-	-	-	-	-
Heat generation	-656	-1,810	-619	-24,891	-659	-33	-17	-95
Petroleum refineries	-	-	-	-	-	-	_	-
Coke manufacture	-	_	-	_	-	-	-	-
Blast furnaces	-	-	-	_	-	-	-	-
Patent fuel manufacture	_	_	_	_	_	_	_	_
Other	-	_	_	_	_	_	_	_
Energy industry use								
Electricity generation	_	_	_	_	-	_	_	
Oil and gas extraction	_		_	_	_	_	_	
Petroleum refineries	_	_	_	_	_	_	_	
Coal extraction	_	_	_	_	_	_	_	
Coke manufacture	_	_	_		_	_	_	_
Blast furnaces	_	_	_		_	_	_	_
Patent fuel manufacture	_	_	_		_	_	_	_
Pumped storage			_	-	_	_	_	
Other		_	_	_	_	_	_	
Losses	_	_	_	_	_	_	_	
Final consumption								
Industry								
Unclassified	_	141	_	_	_	_	17	95
Iron and steel	1	1,670	619	141	22	1	-	-
Non-ferrous metals	62	-	-	-	-		_	_
Mineral products		_	_	_	_	_	_	_
Chemicals	140			5,652	142	3		
Mechanical engineering etc	-	_	_	211	21		_	_
Electrical engineering etc	5 1	_	_	-	14	2	_	_
Vehicles	34			_	11			
Food, beverages etc	86			963	83	1		
Textiles, leather etc	20	-		903	-		-	-
Paper, printing etc	44	-	-	2,525	- 27	-	-	-
Other industries		-		2,525 1,171	216	- 15	-	-
Construction	46	-	-	1,171	216	15	-	-
	-	-	-	-	-	-	-	-
Transport								
Air	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other								
Domestic	-	-	-	-	-	-	-	-
Public administration	217	-	-	7,898	92	7	-	-
Commercial	-	-	-	6,330	30	3	-	-
Agriculture	-	-	-	-	-	-	-	-
Miscellaneous	-	-	-	-	-	-	-	
Non energy use	-	-	-	-	-	-	-	-

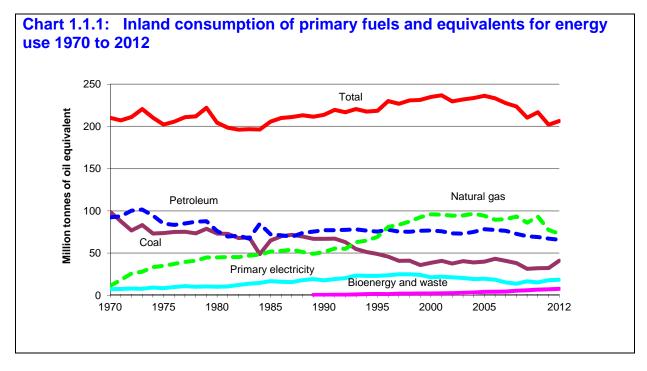
	ktonnes	Coke oven	Blast furnace gas		Fuel oil	Gas oil	Propane	Solid waste
Supply	-	-	-	-	-	-	-	_
Indigenous production	-	-	-	-	-	-	-	-
Imports	-	_	-	_	-	-	-	_
Exports	_	_	_	_	_	_	_	_
Marine bunkers	_	_	_	_	_	_	_	_
Stock change	_	_	_	_	_	_	_	_
Primary supply								
Statistical difference		-		-	-	-	-	
Primary demand	-	-		-	-			
Transfers	-	-	-	-	-	-	-	-
Transformation	-	-	-	-	-	-	-	-
Electricity generation	-	_	-	_	-	-	-	-
Major power producers	-	_	-	_	-	-	-	-
Autogenerators	_	_	_	_	_	_	_	_
Heat generation	-649	-1,749	-1,109	-26,185	-657	-33	-16	-104
Petroleum refineries	-0-13	1,773		-20,103	-037	-55	-10	-
	-	-	-	-		-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Energy industry use								
Electricity generation	-	-	-	-	-	-	-	-
Oil and gas extraction	-	-	-	-	-	-	-	-
Petroleum refineries	-	-	-	-	-	-	-	-
Coal extraction	-	-	-	-	-	-	-	-
Coke manufacture	-	-	-	-	-	-	-	-
Blast furnaces	-	-	-	-	-	-	-	-
Patent fuel manufacture	_	_	-	-	-	_	-	-
Pumped storage	_	_	_		_	_	_	_
Other	_		_		-	_	-	
Losses	_		_		-	_	-	
Final consumption								
Industry								
Unclassified	-	53	-	-	-	-	16	104
Iron and steel	5	1,696	1,109	142	31	-	-	_
Non-ferrous metals	10	_	_	_	-	_	_	_
Mineral products	-			_	_			
Chemicals	297			4,488	98	3	_	_
		-	-			-	-	-
Mechanical engineering etc	9	-	-	65	29	2	-	-
Electrical engineering etc		-	-	-	10	-	-	-
Vehicles	29	-	-	4 000	16	-	-	-
Food, beverages etc	85	-	-	1,000	104	1	-	-
Textiles, leather etc	21	-	-	-	-	-	-	-
Paper, printing etc	45	-	-	3,500	34	-	-	-
Other industries	4	-	-	988	149	16	-	-
Construction	-	-	-	-	-	-	-	-
Transport								
Air	-	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-
National navigation	-	-	-	-	-	-	-	-
Pipelines	-	-	-	-	-	-	-	-
Other								
Domestic	-	-	-	-	-	-	-	-
Public administration	142	-	-	8,903	155	7	-	-
Commercial	-	-	-	7,100	32	4	-	-
Agriculture	-	-	-	-	-	-	-	-
Miscellaneous	-	-	-	-	-	-	-	-
Non energy use	_	-	-	-	-	_	_	-

Chapter 1: Long term trends

Energy

Inland consumption of primary fuels (Table 1.1.1)

1.1.1 The trends in inland consumption of primary fuels for energy use are illustrated below in Chart 1.1.1. Overall consumption for energy use increased steadily up to 1973, when the oil price rose following the Arab-Israeli war of that year which led to a major change in patterns of fuel consumption. Having reached a level of over 220 million tonnes of oil equivalent in 1973, energy use subsequently fell, but by 1979 had returned to a similar level to that in 1973. After the outbreak of another Middle East war, consumption fell back to less than 200 million tonnes of oil equivalent in the years 1981 to 1984. It then grew again, and by 1996 had exceeded the peak levels of 1973 and 1979. In 2005 it had grown to 236.3 million tonnes, but has since fallen back by 14.1 per cent to 203.0 million tonnes in 2011. The last few years have been affected by a number of factors: the recession in 2009 reduced consumption; particularly cold weather in both 2010 and 2012 resulted in an increase in demand; whilst warm weather in 2011 caused consumption to fall back. Since 2005, consumption has fallen back by an average of 2 per cent per annum.

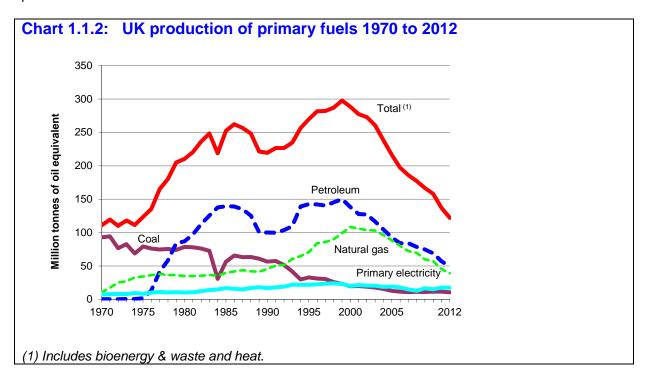


- 1.1.2 Petroleum consumption continued to grow in the period 1970 to 1973, despite strong growth in consumption of natural gas and primary electricity, mainly nuclear. After 1973, consumption of petroleum products declined for ten years, following much the same pattern as coal use. In 2003 petroleum consumption had fallen to its lowest level since 1987, but consumption then rose, peaking in 2005, though it has since fallen back by 16 per cent.
- 1.1.3 Between 1970 and 1999 coal consumption declined at a fast rate down on average 3.4 per cent per year over that period. Consumption increased slightly into 2000 and then remained fairly steady until 2008, before falling back for the next three years as less coal was used in generation. In 2012 demand grew in both 2006 and 2011 following decreased demand for coal at power stations. In 2012, due to low coal prices compared to gas, generators demand for coal was up by almost a third resulting in overall coal demand being up by 27 per cent. The kinks in the demand for coal and petroleum in 1984 are a result of the miner's strike of that year, when oil was used as a substitute for unavailable coal. In 1970 coal accounted for 47 per cent of all fuels consumed. In 1980 this figure had fallen to 36 per cent, in 1990 31 per cent, and in 2010 it had declined further to 15 per cent, though its share rose in 2012 to 20 per cent.

- 1.1.4 Natural gas consumption, which accounted for only 5.4 per cent of all fuels consumed in 1970, grew steadily from this period, and exceeded petroleum consumption for the first time in 1996; by 2004 it accounted for 41 per cent of all fuels consumed. This fell back in 2006 to 38 per cent as the sharp rise in prices in that year resulted in generators switching some gas fired electricity production to coal fired generation. In 2010, its share had risen back to a record level of 43 per cent as a number of generators, early in the year, switched back some production from using coal to gas fired stations, and there was increased domestic demand due to the colder weather. However, higher prices resulted in less use in generation in 2012, and its share fell back to 35 per cent.
- 1.1.5 Consumption of bioenergy and waste continued to increase, accounting for 0.3 per cent of all fuels consumed in 1990, but increasing to 3.8 per cent in 2012¹. The share of primary electricity peaked at 11 per cent in 1997, before falling back to a low of 6.2 per cent in 2008. Its share has since grown to 9.0 per cent in 2012, due to a number of factors: increased nuclear availability following maintenance outages in previous years; and substantially increased wind production resulting from much increased capacity.

Availability and consumption of primary fuels and equivalents (Table 1.1.2)

- 1.1.6 An overall view of energy presented in the form of energy balances is given in Table 1.1.2. It is based on Chapter 1, Tables 1.1 to 1.3, of the main Digest with the time series extended back to 1970. Supplies and uses of energy are expressed on an energy-supplied basis in tonnes of oil equivalent, and are balanced by fuel type and for total energy. More details on the derivation of these balances and on the calculation of energy contents are given in Chapter 1, paragraphs 1.30 to 1.31 and Annex A of the main Digest.
- 1.1.7 Trends in the production of primary fuels in the United Kingdom are illustrated in Chart 1.1.2. In 2012, total energy production was 122 million tonnes of oil equivalent, an increase of 10 per cent on production in 1970, but down by 59 per cent since output peaked in 1999. Total energy production has fallen in each of the last 13 years. In the last ten years, UK energy production has declined at a rate of 7.8 per cent per year; within this natural gas production has declined at the fastest rate, down 9.3 per cent per year, followed by petroleum down 9.1 per cent, coal down 5.5 per cent with primary electricity down 1.7 per cent per year. Bioenergy and waste has grown by an average 8.7 per cent per year over this same time period, though in 2012 accounted for only 5.2 per cent of the UK's energy production.



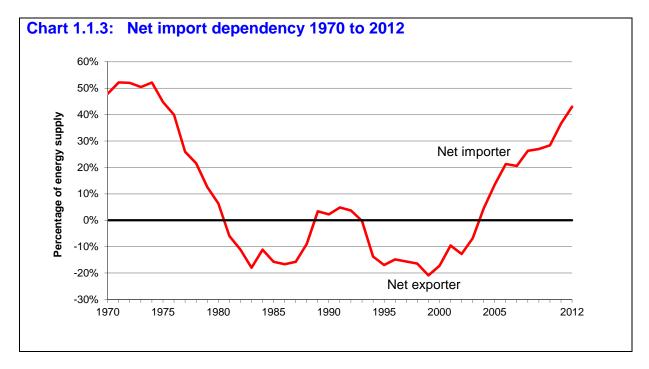
¹ The renewables share was 4.1% in 2012 on the "target measure" – see chapter 6 of DUKES for more detail.

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- 1.1.8 From 1975, petroleum production grew rapidly to peak at over 139 million tonnes of oil equivalent in 1985 when it accounted for 55 per cent of the total energy production of 252.5 million tonnes of oil equivalent. By 1991, temporary production problems, following the Piper Alpha disaster of 1988, had reduced petroleum production to 100 million tonnes of oil equivalent. Since then petroleum production has steadily recovered, reaching a record level of 150 million tonnes of oil equivalent in 1999. Between 1999 and 2006 production of petroleum fell by 44 per cent. Production levels stabilised in 2007 as output from new fields (Buzzard) offset the general decline in production. However, output has since fallen by 42 per cent to leave it down 68 per cent from its peak in 1999. Petroleum production currently accounts for 40 per cent of total energy production.
- 1.1.9 Natural gas from the North Sea started to be produced in substantial quantities from the early 1970s, accounting for 9.4 per cent of total production in 1970, and grew steadily to peak at 108.4 million tonnes in 2000. Since then natural gas production has eased and by 2012 had fallen by 64 per cent from this peak. In 2012 gas accounted for 32 per cent of total energy production.
- 1.1.10 In 1970 coal accounted for 84 per cent of total energy production. In 1980, with the increase in petroleum and natural gas production, coal production fell to 37 per cent of total energy production, falling further to below 10 per cent in 1998. In 2012, coal accounted for 8.7 per cent of total energy production.
- 1.1.11 Primary electricity (nuclear, wind and hydro combined) accounted for a then record 9.9 per cent of production in 2009, as nuclear output recovered from the outages of 2008, allied with strong growth in output of wind generation. Its share fell back marginally in 2010 as nuclear outages, lower average wind speeds and lower rainfall more than offset the increased wind capacity available. However, by 2012 the share had increased to a record 14.3 per cent, with increases in nuclear and wind. Output of primary electricity was down 27 per cent in 2012 from its peak in 1998.

Comparison of net imports of fuel with total consumption of primary fuels and equivalents (Table 1.1.3)

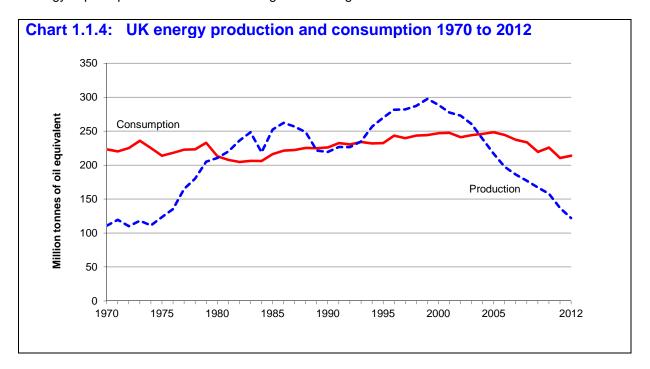
1.1.12 In Table 1.1.3 and Chart 1.1.3 gross fuel consumption in the United Kingdom, including non-energy use and international marine bunkers, is compared with net imports of fuel to show the UK's net import or net export dependency ratio. In the 1970's the UK was a net importer of energy.



Following development of oil and gas production in the North Sea, the UK became a net exporter in 1981. Output fell back in the late 1980's following the Piper Alpha disaster, with the UK regaining a position as a net exporter in the mid 1990's. North Sea production peaked in 1999, and the UK returned to being an energy importer in 2004. The UK remains a net exporter of oil products, though at a reduced level following closure of the Coryton refinery in 2012. The level of net imports of crude

oil results in the UK being an overall net importer of oil. In 2012, 43 per cent of energy used in the UK was imported, up sharply from the 2010 level as North Sea oil and gas output fell following adverse weather conditions as well as a number of maintenance issues. The import dependency ratio is at its highest level since 1976.

1.1.13 Chart 1.1.4 shows United Kingdom primary energy production and consumption (from Tables 1.1.2 and 1.1.3) and also illustrates the degree to which the United Kingdom was dependent on energy imports prior to North Sea oil and gas becoming available.



Energy ratio (Table 1.1.4)

1.1.14 The relationship between energy consumption and economic activity at the aggregate level can be gauged by comparing a country's temperature corrected inland primary energy consumption with its gross domestic product (GDP). This approach is simple and comprehensive but it has a number of drawbacks which were discussed in the articles in the August 1976, May 1981 and May 1989 issues of *Economic Trends* (The Stationery Office). In September 2011 the methodology used by DECC was modified to move from using temperature deviations to a heating degree day methodology.

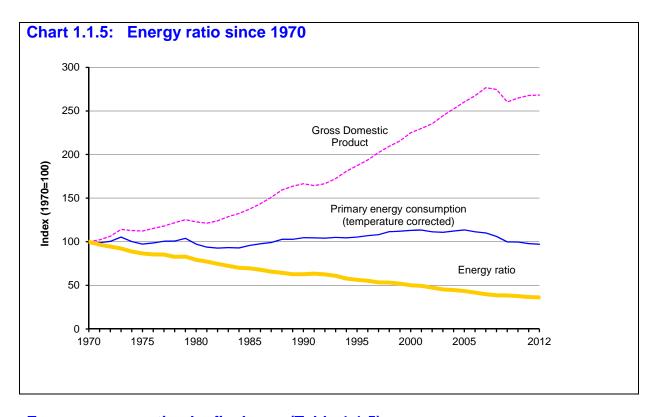
1.1.15 Heating degree days (HDD) are defined relative to a base temperature - the outside temperature above which a building needs no heating. DECC use 15.5° as the base data, as this seems the value most commonly used by other comparable countries, and a higher value did not produce appreciably better results. If the average outside air temperature on a given day is above this base temperature, you will not need to use any energy for heat; whilst if it is below, then your heat requirement that day will be in proportion to the temperature deficit in degrees. For example, using a base of 15.5°, if a day has an average temperature of 10°, then we calculate the HDD as 5.5. If the outside average temperature was minus 2°, then we would calculate the HDD as 17.5. The HDD's are summed for the month, and this value is then compared with the long term average. For example the long term average (from 1981 to 2010) for November is 248 HDD or 8.26 degrees per day. November 2009 and 2011 were mild, and the HDD was calculated as 212 and 179 HDD respectively, whilst the colder Novembers of 2010 and 2012 had 304 and 265 HDD. The above numbers are calculated based on the average daily temperature (the average of the maximum and the minimum temperature) at each of 17 locations around the UK. More details of the methodology are detailed in an article in the June 2011 edition of Energy Trends.

1.1.16 The temperature corrected series of total inland fuel consumption given in Table 1.1.4 indicates what annual consumption might have been if the number of heating degree days for a year had been the same as the average for the years 1981 to 2010. The long term averages were updated to cover this revised period in June 2013. Different adjustment factors are then used for each month

for each fuel. Research showed that temperature extremes had more effect on energy demand in the spring and autumn than that in winter and summer. In particular April, September and October showed the largest effects. In the summer, a 1 degree change may not be sufficient to result in additional heating being used. However, in October, a 1 degree difference may well be sufficient to result in heating being turned on or turned off, so resulting in a larger change.

1.1.17 Table 1.1.4 shows the United Kingdom's temperature corrected inland primary energy consumption in column B and GDP at constant prices since 1970 (column D), both expressed in absolute units (millions of tonnes of oil equivalent and billions of pounds sterling at 2010 prices respectively). Dividing energy consumption by GDP yields the energy ratio, which is expressed in column F of the table as energy consumed per million pound of GDP and in column G as an index number based on 1970=100. For GDP at constant prices the published measure of GDP at market prices at 2010 prices has been used. The GDP figures used are on the European System of Accounts (ESA 95) basis, consistent with the UK national accounts.

1.1.18 Chart 1.1.5 illustrates trends in primary energy consumption, GDP and the energy ratio over the period 1970 to 2012. It shows that energy ratio fell steadily (with the exception of 1979 and 1991) from its 1970 level to 36 per cent of that level by 2012, an average decrease of around 2.4 per cent per annum. The pace of fall has remained fairly steady throughout the past 40 years, averaging 2.4 per cent per annum since 1970. The strong downward trend since 1970 is explained by at least four factors: improvements in energy efficiency; saturation in the ownership levels and improved efficiency of the main domestic appliances; the unresponsiveness of certain industrial uses, like space heating, to long run output growth; and a structural shift away from energy intensive activities (such as steel making) towards low energy industries (such as services).



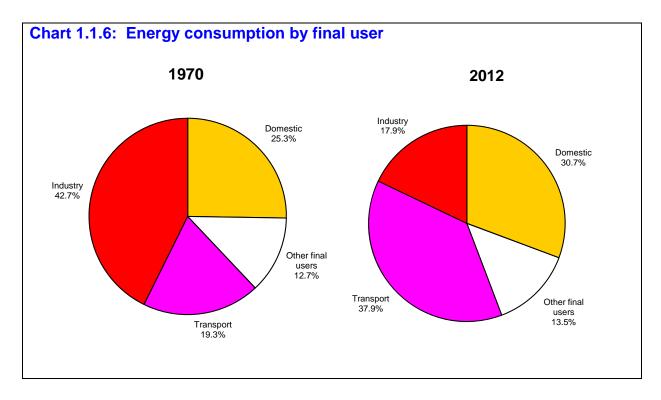
Energy consumption by final user (Table 1.1.5)

1.1.19 Figures for energy consumption (excluding non-energy use) by category of final users are given in Table 1.1.5. Final users' consumption is net of the fuel industries' own use and conversion, transmission and distribution losses, but it includes conversion losses by final users. The user categories are industry (including iron and steel), transport (including coastal shipping), domestic and other final users (public administration, agriculture, commerce and other sectors), see Chapter 1, paragraphs 1.56 to 1.60 of the main Digest.

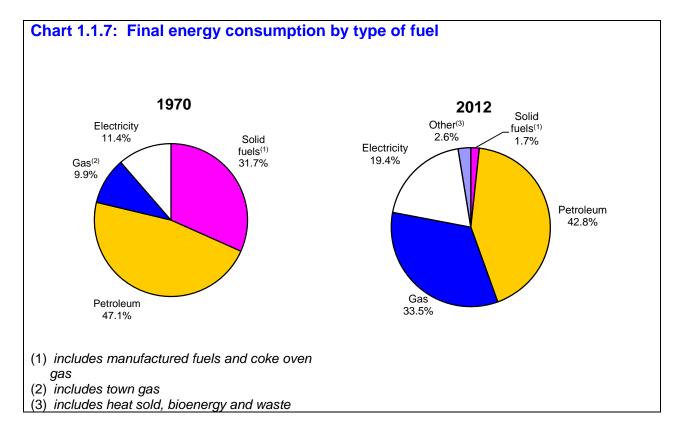
1.1.20 Up to 1986, data for final consumption of electricity include acquisitions from public supply, output of industrial nuclear stations, and amounts produced by transport undertakings and industrial

hydropower for final consumption. From 1987 onwards, all consumption of electricity, whether produced by major power producers or by other generators, are included. There is a corresponding change in treatment, between 1986 and 1987, for other fuels used in electricity generation (see Chapter 1, paragraph 1.36 of the main Digest).

- 1.1.21 Overall consumption by final users has followed the same pattern as overall primary energy consumption since 1970, accounting for around 70 per cent of the total consumption throughout the period.
- 1.1.22 In 1970, the industry sector (including iron and steel) had the greatest level of consumption, with 44 per cent of total final consumption. However, since 1970 this sector has steadily reduced its consumption, falling to 34 per cent in 1980 and 27 per cent of total final consumption in 1990. It now stands at 18 per cent of total final consumption for energy use. This share is now less than that of the domestic sector which, has retained around the same share of around 30 per cent since 1980. In 2011 the domestic share fell back to 28 per cent due to the warmer weather, but with more normal temperatures in 2012 returned to a share of 31 per cent. The greatest growth has been in the transport sector; this had a share of 19 per cent in 1970, before growing to 25 per cent in 1980, 33 per cent in 1990 and to just under 40 per cent in 2011 before falling back to 38 per cent in 2012. Service sector consumption has remained steady from 1970 to 2012 and was around 13.5 per cent of total final consumption in 2012.
- 1.1.23 A comparison of energy consumption for energy purposes by final users in 1970 and 2012 is shown in Chart 1.1.6.



1.1.24 Table 1.1.5 also shows trends in final energy consumption for individual fuels. In 1970, consumption of coal and other solid fuels accounted for 32 per cent of final energy consumption, but this share has declined steadily to around 2 per cent in 2012. Over this period consumption of natural gas has increased rapidly, up from 10 per cent in 1970 to stand at 33 per cent in 2012. In 1970, town gas accounted for 7 per cent of consumption; however use of town gas was phased out in the mid 1970s. Electricity consumption has made steady progress over the last three decades, rising from 11 per cent of the total in 1970 to just under 20 per cent in 2012. Petroleum's share has remained broadly steady, with a 47 per cent share in 1970 falling back to 40 per cent in 1985, though this has since risen to 43 per cent in 2012. A comparison of final energy consumption for individual fuels in 1970 and 2012 is shown in Chart 1.1.7.



Expenditure on energy by final user (Table 1.1.6)

- 1.1.25 Total expenditure on fuels is presented in Table 1.1.6 from 1970, and figures for recent years are illustrated in Chapter 1, Chart 1.6 of the main Digest. Data for the latest years are taken from the value balances (Chapter 1, Tables 1.4 to 1.6 of the main Digest) whilst earlier years are taken from their forerunner tables of estimated values of energy purchases by sector. As before, coal purchased by the iron and steel sector and shown in the transformation section of the energy value balance table is included as a final purchase by the industry sector of coal.
- 1.1.26 Overall final expenditure on energy was up by just over £3 billion (2.5 per cent) in 2012 compared to 2011, as prices of fuels increased marginally following the sharp rises of the previous two years. The level of £137 billion in 2012 is more than double that of 2000 and nearly three times than that in 1990. The change in the final expenditure for all fuels over the past few years have mainly been driven by changes in the price of oil, which rose steadily throughout 2010 and into April 2011, before remaining at these elevated levels for the rest of the year and throughout 2012. The slight rise in 2012 was mainly due to colder weather in 2012 resulting in increased demand.
- 1.1.27 The makeup of total expenditure has changed through time, reflecting structural or long term changes in fuel mix and shorter term price and consumption effects. In 1970, expenditure on coal and coke accounted for around 15 per cent of total final expenditure, but was down to 1 per cent in 2012. By contrast, the general increase in the consumer price of petroleum (where duty is a major component) has meant that petroleum rose from 45 per cent of all expenditure in 1970 to 63 per cent in 2004. This percentage in 2009 declined to 53 per cent due to the rises in gas and electricity prices since 2004, but climbed to 58 per cent in 2012.

Mean air temperatures and heating degree days (Tables 1.1.7, 1.1.8 and 1.1.9)

- 1.1.28 Table 1.1.7 gives the average air temperatures in Great Britain between 1981 and 2010 by year, part year and month. Deviations from these means are presented for January 2000 to December 2012. Table 1.1.8 provides similar data, but for heating degree days rather than average temperatures. These heating degree deviations are used to provide the temperature corrected consumption series shown in Table 1.1.4.
- 1.1.29 Average monthly temperatures back to 1970 are also given in Table 1.1.9. The daily average temperature for 2012 was 0.2 degrees lower than the long term mean covering 1981 to 2010, and 1.0

degrees colder than 2011. The year 2010 was the coldest since 1987 and included the coldest December for 100 years. The year 2011, according to the Met Office, was the second warmest on record and included the warmest April for over 100 years, with temperatures in 2012 despite being below those from 1997 through to 2009 were closer to the longer term thirty year average.

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1.1.1 Inland consumption of primary fuels and equivalents for energy use, 1970 to 2012

In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Coal (1) M.tonnes Petroleum (2) Natural gas (3) GWh Nuclear electricity (4) Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) GWh Nuclear electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	1970 156.9 87.0 131,472 26,039 4,539 99.0 92.4 11.3 7.0 0.4 210.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1 8.1	1971 139.3 88.0 212,037 27,418 3,397 87.7 93.5 18.2 7.4 0.3 207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552	1972 122.4 94.2 300,808 29,275 3,429 76.8 100.2 25.9 7.9 0.3 211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919	1973 133.0 95.3 325,455 27,757 3,874 83.2 101.5 28.0 7.5 0.3 220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477,002 37,065 4,038	1974 117.9 88.5 389,286 33,377 4,095 73.3 94.3 33.5 9.0 0.4 210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Natural gas (3) Million tonnes of oil equivalent Coal (1) Petroleum (2) Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied become share electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) Mitonnes Petroleum (2) Natural gas Nuclear electricity (4) Hydro electricity Mitonnes Petroleum (2) Natural gas (3) Nuclear electricity (4) Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied become shares (energy supplied shares	87.0 131,472 26,039 4,539 99.0 99.4 11.3 7.0 0.4 210.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	88.0 212,037 27,418 3,397 87.7 93.5 18.2 7.4 0.3 207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976	94.2 300,808 29,275 3,429 76.8 100.2 25.9 7.9 0.3 211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977	95.3 325.455 27,757 3,874 83.2 101.5 28.0 7.5 0.3 220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477,002 37,065 4,038	88.5 389,286 33,377 4,095 73.3 94.3 33.5 9.0 0.4 210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4)(5) Total Percentage shares (energy supplied by Coal Petroleum (2) Natural gas (3) Nuclear electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum (2) Natural gas (3) Nuclear electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	87.0 131,472 26,039 4,539 99.0 99.4 11.3 7.0 0.4 210.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	88.0 212,037 27,418 3,397 87.7 93.5 18.2 7.4 0.3 207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976	94.2 300,808 29,275 3,429 76.8 100.2 25.9 7.9 0.3 211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977	95.3 325.455 27,757 3,874 83.2 101.5 28.0 7.5 0.3 220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477,002 37,065 4,038	88.5 389,286 33,377 4,095 73.3 94.3 33.5 9.0 0.4 210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
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Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied become share electricity (4) Hydro electricity Hydro electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4) " Hydro electricity (4) (5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied become shares (energy supplied shar	131,472 26,039 4,539 99.0 92.4 11.3 7.0 0.4 210.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789	212,037 27,418 3,397 87.7 93.5 18.2 7.4 0.3 207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552	300,808 29,275 3,429 76.8 100.2 25.9 7.9 0.3 211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919 75.3 85.1	325,455 27,757 3,874 83.2 101.5 28.0 7.5 0.3 220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477,002 37,065 4,038	389,286 33,377 4,095 73.3 94.3 33.5 9.0 0.4 210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Nuclear electricity (4) Hydro electricity (4)(5) Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) Natural gas (3) Suclear electricity (4) Hydro electricity (4) Hydro electricity (4) Suclear electricity (4) Hydro electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Hydro electricity Fossil fuel dependency (7)	26,039 4,539 99.0 92.4 11.3 7.0 0.4 210.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789	27,418 3,397 87.7 93.5 18.2 7.4 0.3 207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552	29,275 3,429 76.8 100.2 25.9 7.9 0.3 211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919 75.3 85.1	27,757 3,874 83.2 101.5 28.0 7.5 0.3 220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477,002 37,065 4,038	33,377 4,095 73.3 94.3 33.5 9.0 0.4 210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) Natural gas (3) Nuclear electricity (4) Hydro electricity (4) Hydro electricity (4) Hydro electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Hydro electricity Hydro electricity Hydro electricity Hydro electricity Fossil fuel dependency (7)	99.0 92.4 11.3 7.0 0.4 210.1 asis) 47.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	3,397 87.7 93.5 18.2 7.4 0.3 207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552	76.8 100.2 25.9 7.9 0.3 211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919	3,874 83.2 101.5 28.0 7.5 0.3 220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477.002 37,065 4,038	4,095 73.3 94.3 33.5 9.0 0.4 210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
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Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied baccoal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) Nuclear electricity (4) Hydro electricity (4) Hydro electricity (4)(5) Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied baccoal Petroleum Natural gas Nuclear electricity Hydro electricity Hydro electricity Fossil fuel dependency (7)	92.4 11.3 7.0 0.4 210.1 asis) 47.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	93.5 18.2 7.4 0.3 207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552	100.2 25.9 7.9 0.3 211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919	101.5 28.0 7.5 0.3 220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477,002 37,065 4,038	94.3 33.5 9.0 0.4 210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Hydro electricity Fossil fuel dependency (7)	92.4 11.3 7.0 0.4 210.1 asis) 47.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	93.5 18.2 7.4 0.3 207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552	100.2 25.9 7.9 0.3 211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919	101.5 28.0 7.5 0.3 220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477,002 37,065 4,038	94.3 33.5 9.0 0.4 210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied be Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) Metrones Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (4)(5) Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied be Coal Petroleum Natural gas Nuclear electricity Hydro electricity Hydro electricity Fossil fuel dependency (7)	11.3 7.0 0.4 210.1 asis) 47.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	18.2 7.4 0.3 207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552	25.9 7.9 0.3 211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919 75.3 85.1	28.0 7.5 0.3 220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477.002 37,065 4,038	33.5 9.0 0.4 210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Hydro electricity Fossil fuel dependency (7)	7.0 0.4 210.1 asis) 47.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789	7.4 0.3 207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552	7.9 0.3 211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919	7.5 0.3 220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477,002 37,065 4,038	9.0 0.4 210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Percentage shares (energy supplied be Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Nuclear electricity (4) " Hydro electricity (4) " Hydro electricity (4) (5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied be Coal Petroleum Natural gas Nuclear electricity Hydro electricity Hydro electricity Fossil fuel dependency (7)	0.4 210.1 47.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789	0.3 207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552	0.3 211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919	0.3 220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477,002 37,065 4,038	0.4 210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Hydro electricity Fossil fuel dependency (7)	210.1 47.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	207.1 42.3 45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552 75.0 83.5	211.0 36.4 47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919 75.3 85.1	220.5 37.7 46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477.002 37.065 4.038	210.4 34.8 44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied bactoricity Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	47.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552 75.0 83.5	47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919	46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477.002 37.065 4.038	44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied bactoricity Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	47.1 44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552 75.0 83.5	47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919	46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477.002 37.065 4.038	44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied be Coal Petroleum Natural gas Nuclear electricity Hydro electricity Hydro electricity Fossil fuel dependency (7)	44.0 5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	45.2 8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552 75.0 83.5	47.5 12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919	46.0 12.7 3.4 0.2 96.4 1978 119.9 81.2 477.002 37.065 4.038	44.8 15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied baccoal Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	5.4 3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	8.8 3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552	12.3 3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919	12.7 3.4 0.2 96.4 1978 119.9 81.2 477.002 37,065 4,038	15.9 4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Nuclear electricity Hydro electricity Fossil fuel dependency (7) In original units of measurement Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied bactorial particular of the coal petroleum Natural gas Nuclear electricity Hydro electricity Hydro electricity Fossil fuel dependency (7)	3.3 0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	3.6 0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552 75.0 83.5	3.7 0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919 75.3 85.1	3.4 0.2 96.4 1978 119.9 81.2 477,002 37,065 4,038	4.3 0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
Hydro electricity Fossil fuel dependency (7) In original units of measurement Unit Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied baccoal Petroleum Natural gas Nuclear electricity Hydro electricity Hydro electricity Fossil fuel dependency (7)	0.2 96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	0.1 96.3 1976 122.0 77.8 432,661 35,570 4,552 75.0 83.5	0.1 96.2 1977 122.7 79.3 459,858 39,575 3,919 75.3 85.1	0.2 96.4 1978 119.9 81.2 477,002 37,065 4,038	0.2 95.5 1979 129.6 81.6 521,197 38,062 4,289
In original units of measurement Coal (1) Natural gas (3) Million tonnes of oil equivalent Coal (1) Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Muclear electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied be Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	96.5 1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	96.3 1976 122.0 77.8 432,661 35,570 4,552 75.0 83.5	96.2 1977 122.7 79.3 459,858 39,575 3,919 75.3 85.1	96.4 1978 119.9 81.2 477,002 37,065 4,038	95.5 1979 129.6 81.6 521,197 38,062 4,289 78.8
In original units of measurement Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) (5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied be Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	1975 120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	1976 122.0 77.8 432,661 35,570 4,552 75.0 83.5	1977 122.7 79.3 459,858 39,575 3,919 75.3 85.1	1978 119.9 81.2 477,002 37,065 4,038	1979 129.6 81.6 521,197 38,062 4,289
Coal (1) Unit M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) (5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	120.0 79.4 407,750 30,215 3,789 73.7 85.0 35.1	122.0 77.8 432,661 35,570 4,552 75.0 83.5	122.7 79.3 459,858 39,575 3,919 75.3 85.1	119.9 81.2 477,002 37,065 4,038	129.6 81.6 521,197 38,062 4,289
Coal (1) Unit M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) (5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	79.4 407,750 30,215 3,789 73.7 85.0 35.1	77.8 432,661 35,570 4,552 75.0 83.5	79.3 459,858 39,575 3,919 75.3 85.1	81.2 477,002 37,065 4,038	81.6 521,197 38,062 4,289
Coal (1) M.tonnes Petroleum (2) " Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied bactorial particular and particular an	79.4 407,750 30,215 3,789 73.7 85.0 35.1	77.8 432,661 35,570 4,552 75.0 83.5	79.3 459,858 39,575 3,919 75.3 85.1	81.2 477,002 37,065 4,038	81.6 521,197 38,062 4,289
Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (4)(5) Million tonnes of oil equivalent Coal (1) Percentage shares (energy supplied baccoal Petroleum Natural gas Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied baccoal Petroleum Natural gas Nuclear electricity Fossil fuel dependency (7)	79.4 407,750 30,215 3,789 73.7 85.0 35.1	77.8 432,661 35,570 4,552 75.0 83.5	79.3 459,858 39,575 3,919 75.3 85.1	81.2 477,002 37,065 4,038	81.6 521,197 38,062 4,289
Natural gas (3) GWh Nuclear electricity (4) " Hydro electricity (4)(5) " Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	407,750 30,215 3,789 73.7 85.0 35.1	432,661 35,570 4,552 75.0 83.5	459,858 39,575 3,919 75.3 85.1	477,002 37,065 4,038	521,197 38,062 4,289 78.8
Nuclear electricity (4) Hydro electricity (4)(5) Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied baccoal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	30,215 3,789 73.7 85.0 35.1	35,570 4,552 75.0 83.5	39,575 3,919 75.3 85.1	37,065 4,038 73.3	38,062 4,289 78.8
Hydro electricity (4)(5) Million tonnes of oil equivalent Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied baccoal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	3,789 73.7 85.0 35.1	4,552 75.0 83.5	3,919 75.3 85.1	4,038 73.3	4,289 78.8
Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	85.0 35.1	83.5	85.1		
Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	85.0 35.1	83.5	85.1		
Petroleum (2) Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	85.0 35.1	83.5	85.1		
Natural gas (3) Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied baccoal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	35.1			87.2	~~ -
Nuclear electricity (4) Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)					87.7
Hydro electricity (5) Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	8.1	37.2	39.5	41.0	44.8
Total Percentage shares (energy supplied by Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)		9.6	10.6	10.0	10.2
Percentage shares (energy supplied be Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	0.3	0.4	0.3	0.3	0.4
Coal Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	202.2	205.6	210.9	211.8	221.9
Petroleum Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	isis)				
Natural gas Nuclear electricity Hydro electricity Fossil fuel dependency (7)	36.5	36.5	35.7	34.6	35.5
Nuclear electricity Hydro electricity Fossil fuel dependency (7)	42.0	40.6	40.4	41.2	39.5
Hydro electricity Fossil fuel dependency (7)	17.3	18.1	18.7	19.4	20.2
Fossil fuel dependency (7)	4.0	4.6	5.0	4.7	4.6
	0.2	0.2	0.2	0.2	0.2
	05.0	05.0	0.4.0	25.0	05.0
In original units of measurement	95.8	95.2	94.8	95.2	95.2
In original units of measurement	1980	1981	1982	1983	1984
Coal (1) Unit M.tonnes	120.8	118.2	110.7	111.5	79.0
Petroleum (2)	70.5	64.2	65.2	61.7	78.6
Natural gas (3) GWh	521,051	528,114	525,476	547,750	560,410
Nuclear electricity (4)	36,870	37,897	44,212	50,138	53,957
Hydro electricity (4)(5)	3,934	4,383	4,558	4,563	4,005
Million towner of all assistators					
Million tonnes of oil equivalent Coal (1)	73.3	72.9	68.0	68.6	48.7
Petroleum (2)					
Natural gas (3)	76.2 44.8	69.5 45.4	70.7 45.2	67.2 47.1	84.7 48.2
Nuclear electricity (4)	9.9	10.2	11.9	13.5	14.5
Hydro electricity (4)(5)	0.3	0.4	0.4	0.4	0.3
Total (6)	204.5	198.4	196.1	196.8	196.4
Danisation above (.aia)				
Percentage shares (energy supplied ba	isis)	36.7	34.7	34.9	24.8
Petroleum	•	35.0	36.0	34.9	43.1
Natural gas	35.8	22.9	23.0	23.9	24.5
Nuclear electricity	35.8 37.3	5.1	6.1	6.8	7.4
Hydro electricity	35.8 37.3 21.9	J. I	0.2	0.2	0.2
	35.8 37.3	0.2			
Fossil fuel dependency (7)	35.8 37.3 21.9 4.8		93.7	93.0	92.4

1.1.1 Inland consumption of primary fuels and equivalents for energy use, 1970 to 2012 continued)

-		1985	1986	1987	1988	1989
In original units of meas	urement	1000	1000	1007	1000	1000
· ·	Unit					
Coal (1)	M.tonnes	105.3	113.5	116.2	112.0	108.1
Petroleum (2)		66.5	65.3	63.5	67.8	69.0
Natural gas (3)	GWh "	602,701	612,724	629,311	597,220	571,187
Nuclear electricity (4) Hydro electricity (4)(5)		61,391 4,093	59,079 4,780	55,238 4,198	63,456 4,919	71,734 4,758
Net electricity imports	m m		4,255	11,635	12,830	12,631
• •	hadaat		4,233	11,035	12,030	12,031
Million tonnes of oil equi Coal (1)	ivaient	64.0	70.0	71.7	70.0	67.0
Petroleum (2)		64.8 72.2	70.0 71.1	69.4	70.0 74.0	67.0 75.4
Natural gas (3)		72.2 51.8	52.7	54.1	74.0 51.4	75.4 49.1
Nuclear electricity (4)		16.5	15.4	14.4	16.6	17.7
Hydro electricity (4)(5)		0.4	0.4	0.4	0.4	0.4
Net electricity imports			0.4	1.0	1.1	1.1
Bioenergy & waste						0.7
Total (6)		205.7	210.0	211.0	213.5	211.4
Percentage shares (ener	gy supplied basis)					
Coal	3, 11, 11, 11, 11, 11, 11, 11, 11, 11, 1	31.5	33.3	34.0	32.8	31.7
Petroleum		35.1	33.9	32.9	34.7	35.7
Natural gas		25.2	25.1	25.6	24.1	23.2
Nuclear electricity		8.0	7.4	6.8	7.8	8.4
Hydro electricity		0.2	0.2	0.2	0.2	0.2
Net electricity imports			0.2	0.5	0.5	0.5
Bioenergy & waste						0.3
Fossil fuel dependency (7)		91.8	92.3	92.5	91.6	90.6
		1990	1991	1992	1993	1994
In original units of meas	urement	.000	1001	1002	1000	1004
5	Unit					
Coal (1)	M.tonnes	108.4	107.6	101.1	87.4	82.1
Petroleum (2)	II .	70.6	70.6	70.9	71.5	70.0
Natural gas (3)	GWh	595,131	643,863	640,459	732,090	754,284
Nuclear electricity (4)		65,749	70,543	76,807	76,807	89,353
Hydro electricity (4)(5)		5,216	4,635	5,465	5,465	4,521
Net electricity imports	"	11,943	16,408	16,694	16,716	16,887
Million tonnes of oil equi	ivalent					
Coal (1)		66.9	67.1	63.0	55.0	51.3
Petroleum (2)		77.2	77.1	77.5	78.1	76.7
Natural gas (3)		51.2	55.4	55.1	62.9	64.9
Nuclear electricity		16.3	17.4	18.5	21.6	21.2
Hydro electricity (5)		0.4	0.4	0.5	0.5	0.4
Net electricity imports		1.0	1.4	1.4	1.4	1.5
Bioenergy & waste		0.7	0.7	0.8	1.2	1.6
Total (6)		213.6	219.5	216.7	220.7	217.5
Percentage shares (ener	gy supplied basis)	04.0	00.0	00.4	04.0	20.0
Coal		31.3	30.6	29.1	24.9	23.6
Petroleum		36.1	35.1	35.8	35.4 28.5	35.3
Natural gas		24.0 7.6	25.2 7.9	25.4 8.5	28.5 9.8	29.8 9.7
Nuclear electricity Hydro electricity		0.2	0.2	0.2	0.2	0.2
Net electricity imports		0.5	0.6	0.7	0.7	0.2
Bioenergy & waste		0.3	0.3	0.4	0.5	0.7
Diochergy a waste		0.0	0.0	0.4	0.0	0.7
Fossil fuel dependency (7)		91.4	90.9	90.2	88.8	88.7
		1995	1996	1997	1998	1999
In original units of meas						
Cool (1)	Unit	77.0	70.4	CO. F	00.0	
Coal (1) Petroleum (2)	M.tonnes	77.2	72.1	63.5	63.2	55.8
Petroleum (2) Natural gas (3)	GWh	68.9 805,058	71.3 941,841	68.7 971.503	68.6 1,015,486	69.7
Nuclear electricity (4)	04411	88,282	94,671	98,146	99,486	1,075,907 95,133
Hydro electricity (4)(5)		5,438	3,879	4,836	5,994	6,187
Net electricity imports	m m	16,313	16,755	16,574	12,468	14,244
Million tonnes of oil equi	ivalent	,	,		1_, 100	,=
Coal (1)	T COLOTTE	48.9	45.7	40.8	41.0	36.0
Petroleum (2)		75.4	77.8	75.5	75.4	76.4
Natural gas (3)		69.2	81.0	83.5	87.3	92.5
Nuclear electricity		21.3	22.1	23.1	23.4	22.4
Hydro electricity (5)		0.5	0.3	0.4	0.5	0.5
Net electricity imports		1.4	1.4	1.4	1.1	1.2
Bioenergy & waste		1.7	1.8	1.9	2.1	2.2
Total (6)		218.4	230.0	226.8	230.7	231.3
Percentage shares (ener	gy supplied basis)					
Coal	•	22.4	19.9	18.0	17.8	15.6
Petroleum		34.5	33.8	33.3	32.7	33.0
Natural gas		31.7	35.2	36.8	37.8	40.0
Nuclear electricity		9.7	9.6	10.2	10.2	9.7
Hydro electricity		0.2	0.1	0.2	0.2	0.2
Net electricity imports		0.6	0.6	0.6	0.5	0.5
Bioenergy & waste		0.8	0.8	0.8	0.9	1.0
Fossil fuel dependency (7)		88.6	88.9	88.1	88.3	88.6
r ossii ruei ueperiuericy (7)		0.00	00.9	00.1	00.3	0.00

1.1.1 Inland consumption of primary fuels and equivalents for energy use, 1970 to 2012 (continued)

		2000	2001	2002	2003	200
In original units of measure	ement Unit					
Coal (1)	M.tonnes	59.7	63.5	58.8	63.5	61.
Petroleum (2)	"	69.9	69.1	67.0	66.5	68.
Natural gas (3)	GWh	1,114,942	1,111,363	1,097,031	1,100,616	1,123,92
Nuclear electricity (4)		85,063	90,093	87,848	88,686	79,99
Wind & Hydro electricity (4)(5)		6,032	5,020	6,047	4,516	6,78
Net electricity imports	"	14,174	10,399	8,414	2,160	7,49
Million tonnes of oil equival	lent					
Coal (1)		38.5	40.8	37.7	40.5	39.
Petroleum (2)		76.7	75.9	73.5	73.0	75.
Natural gas (3) Nuclear electricity		95.9 19.6	95.6 20.8	94.3 20.1	94.6 20.0	96. 18.
Wind & Hydro electricity (5)		0.5	0.4	0.5	0.4	0.
Net electricity imports		1.2	0.9	0.7	0.2	0.
Bioenergy & waste		2.3	2.5	2.8	3.1	3
Total (6)		234.8	236.9	229.6	231.9	233.
Percentage shares (energy	supplied basis)					
Coal		16.4	17.2	16.4	17.5	16
Petroleum		32.7	32.0	32.0	31.5	32
Natural gas		40.8	40.3	41.1	40.8	41
Nuclear electricity		8.4	8.8	8.8	8.6	7
Wind & Hydro electricity		0.2	0.2	0.2	0.2	0.
Net electricity imports Bioenergy & waste		0.5 1.0	0.4 1.1	0.3 1.2	0.1 1.3	0
bioeriergy & waste		1.0	1.1	1.2	1.5	'
Fossil fuel dependency (7)		89.9	89.6	89.5	89.8	90
		2005	2006	2007	2008	200
n original units of measure			2000	2001	2000	200
Coal (1)	Unit M.tonnes	62.4	68.0	63.7	59.0	48.
Petroleum (2)	141.10111169	62.4 71.3	70.4	63.7 69.6	59.0 66.4r	63.
Natural gas (3)	GWh	1,096,544	1.039.629	1,048,930	1,083,476r	1,001,66
Nuclear electricity (4)		81,618	75,451	63,028	52,486	69,09
Wind & Hydro electricity (4)(5)		7,834	8,829	10,365	12,265r	14,56
Net electricity imports	п	8,321	7,517	5,215	11,022	2,86
Million tonnes of oil equival	lent					
Coal (1)		39.9	43.4	41.0	38.2r	31
Petroleum (2)		78.2	77.4	76.3	72.9r	70
Natural gas (3)		94.3	89.4	90.2	93.2r	86
Nuclear electricity		18.4	17.1	14.0	11.9	15
Wind & Hydro electricity (5)		0.7	0.8	0.9	1.1	1
Net electricity imports		0.7	0.6	0.4	0.9	0
Bioenergy & waste Total (6)		4.2 236.3	4.4 233.1	4.7 227.5	5.4r 223.5r	6 210
Percentage shares (energy	supplied basis)	200.0	200.1	227.0	220.0.	2.0
Coal	,	16.9	18.6	18.0	17.1r	14
Petroleum		33.1	33.2	33.6	32.6r	33
Natural gas		39.9	38.3	39.6	41.7r	40
Nuclear electricity		7.8	7.3	6.2	5.3	7
Wind & Hydro electricity		0.3	0.3	0.4	0.5	0
Net electricity imports		0.3	0.3	0.2	0.4	
Net electricity imports		0.3 1.8	0.3 1.9	0.2 2.0	0.4 2.4	
Net electricity imports Bioenergy & waste						2
Net electricity imports Bioenergy & waste -ossil fuel dependency (7)		1.8	1.9	2.0	2.4	2
Net electricity imports Bioenergy & waste -ossil fuel dependency (7)	ement Unit	1.8 89.9	1.9 90.2	91.2	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) n original units of measure		1.8 89.9	1.9 90.2	91.2	2.4	2
Net electricity imports Bioenergy & waste Cossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2)	Unit M.tonnes	1.8 89.9 2010	1.9 90.2 2011 50.5 61.2r	2.0 91.2 2012	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2)	Unit	1.8 89.9 2010 50.8	1.9 90.2 2011 50.5	2.0 91.2 2012	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4)	Unit M.tonnes " GWh	1.8 89.9 2010 50.8 63.0r	1.9 90.2 2011 50.5 61.2r	2.0 91.2 2012 64.1 60.1	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5)	Unit M.tonnes " GWh	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r	1.9 90.2 2011 50.5 61.2r 898,886r 68,980 21,445r	2.0 91.2 2012 64.1 60.1 849,865 70,405 26,060	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5)	Unit M.tonnes " GWh	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140	1.9 90.2 2011 50.5 61.2r 898,886r 68,980	2.0 91.2 2012 64.1 60.1 849,865 70,405	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) n original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5) Net electricity imports Million tonnes of oil equival	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663	1.9 90.2 2011 50.5 61.2r 898,886r 66,980 21,445r 6,222	2.0 91.2 2012 64.1 60.1 849.865 70,405 26,060 12,044	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5) Net electricity imports Million tonnes of oil equival Coal (1)	Unit M.tonnes " GWh "	50.8 63.0r 1,085,364r 62,140 13,801r 2,663	1.9 90.2 2011 50.5 61.2r 898.886r 68.980 21,445r 6,222	2.0 91.2 2012 64.1 60.1 849,865 70,405 26,060 12,044 41.1	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5) Net electricity imports Million tonnes of oil equival Coal (1) Petroleum (2)	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r	1.9 90.2 2011 50.5 61.2r 898,886r 68,980 21,445r 6,222 32,4 67.1r	2.0 91.2 2012 64.1 60.1 849,865 70,405 25,060 12,044 41.1 65.9	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5) Net electricity imports Million tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3)	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3	1.9 90.2 2011 50.5 61.2r 898.886r 68.980 21,445r 6,222 32.4 67.1r 77.3r	2.0 91.2 2012 64.1 60.1 849.865 70,405 26,060 12,044 41.1 65.9 73.1	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) n original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5) Net electricity imports Willion tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3 13.9	1.9 90.2 2011 50.5 61.2r 898,886r 68,980 21,445r 6,222 32.4 67.1r 77.3r 15.6	2.0 91.2 2012 64.1 60.1 849,865 70,405 26,060 12,044 41.1 65.9 73.1 15.2	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4)(5) Net electricity imports Million tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity Wind & Hydro electricity Wind & Hydro electricity (5)	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3 13.9 1.2	1.9 90.2 2011 50.5 61.2r 898,886r 68,980 21,445r 6,222 32,4 67.1r 77.3r 15.6 1.8	2.0 91.2 2012 64.1 60.1 849,865 70,405 26,060 12,044 41.1 65.9 73.1 15.2 2.2	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4)(5) Net electricity imports Million tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity Wind & Hydro electricity (5) Nuclear electricity Wind & Hydro electricity (5) Net electricity imports	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3 13.9 1.2 0.2	1.9 90.2 2011 50.5 61.2r 898,886r 68,980 21,445r 6,222 32.4 67.1r 77.3r 15.6 1.8 0.5	2.0 91.2 2012 64.1 60.1 849.865 70,405 26,060 12,044 41.1 65.9 73.1 15.2 2.2 1.0	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5) Net electricity imports Million tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity Wind & Hydro electricity (5) Net electricity imports Bioenergy & waste	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3 13.9 1.2	1.9 90.2 2011 50.5 61.2r 898,886r 68,980 21,445r 6,222 32,4 67.1r 77.3r 15.6 1.8	2.0 91.2 2012 64.1 60.1 849,865 70,405 26,060 12,044 41.1 65.9 73.1 15.2 2.2	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4)(5) Net electricity imports Million tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity Wind & Hydro electricity (5) Net electricity imports Bioenergy & waste Total (6)	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3 13.9 1.2 0.2 6.9	1.9 90.2 2011 50.5 61.2r 898,886r 68,980 21,445r 6,222 32.4 67.1r 77.3r 15.6 1.8 0.5 7.3r	2.0 91.2 2012 64.1 60.1 849,865 70,405 26,060 12,044 41.1 65.9 73.1 15.2 2.2 2.1 1.0 7.8	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) n original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5) Net electricity imports Willion tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity Wind & Hydro electricity (5) Net electricity imports Bioenergy & waste Total (6) Percentage shares (energy	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3 13.9 1.2 0.2 6.9	1.9 90.2 2011 50.5 61.2r 898,886r 68,980 21,445r 6,222 32.4 67.1r 77.3r 15.6 1.8 0.5 7.3r	2.0 91.2 2012 64.1 60.1 849,865 70,405 26,060 12,044 41.1 65.9 73.1 15.2 2.2 2.1 1.0 7.8	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5) Net electricity imports Willion tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity Wind & Hydro electricity (5) Net electricity imports Bioenergy & waste Fotal (6) Percentage shares (energy Coal	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3 13.9 1.2 0.2 6.9 216.8r	1.9 90.2 2011 50.5 61.2r 898.886r 66.980 21,445r 6,222 32.4 67.1r 77.3r 15.6 1.8 0.5 7.3r 202.1r	2.0 91.2 2012 64.1 60.1 849.865 70,405 26,060 12,044 41.1 65.9 73.1 15.2 2.2 2.1 1.0 7.8 206.3	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4)(5) Net electricity imports Million tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity Wind & Hydro electricity (5) Net electricity imports Bioenergy & waste Total (6) Percentage shares (energy Coal Petroleum	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3 13.9 1.2 0.2 6.9 216.8r	1.9 90.2 2011 50.5 61.2r 898,886r 66,980 21,445r 6,222 32.4 67.1r 77.3r 15.6 1.8 0.5 7.3r 202.1r	2.0 91.2 2012 64.1 60.1 849,865 70,405 26,060 12,044 41.1 65.9 73.1 15.2 2.2 1.0 7.8 206.3	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5) Net electricity imports Million tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity Wind & Hydro electricity (5) Net electricity imports Bioenergy & waste Total (6) Percentage shares (energy Coal Petroleum Natural gas Nuclear electricity Mind & Hydro electricity (5) Net electricity imports Bioenergy & waste Total (6) Percentage shares (energy Coal Petroleum Natural gas Nuclear electricity	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3 13.9 1.2 0.2 6.9 216.8r 14.9r 31.8r 43.0r 6.4	1.9 90.2 2011 50.5 61.2r 898,886r 68,980 21,445r 6,222 32.4 67.1r 77.3r 15.6 1.8 0.5 7.3r 202.1r	2.0 91.2 2012 64.1 60.1 849,865 70,405 26,060 12,044 41.1 65.9 73.1 15.2 2.2 2.1 1.0 7.8 206.3 19.9 31.9 35.4 7.4	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4) Wind & Hydro electricity (4)(5) Net electricity imports Million tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity Wind & Hydro electricity (5) Net electricity imports Bioenergy & waste Total (6) Percentage shares (energy Coal Petroleum Natural gas Nuclear electricity Wind & Hydro electricity Wind & Hydro electricity Coal Petroleum Natural gas Nuclear electricity Wind & Hydro electricity Wind & Hydro electricity Wind & Hydro electricity	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3 13.9 1.2 0.2 6.9 216.8r 14.9r 31.8r 43.0r	1.9 90.2 2011 50.5 61.2r 898,886r 68,980 21,445r 6,222 32,4 67.1r 77.3r 15.6 1.8 0.5 7.3r 202,1r 16.1r 33,2r 38,3r 7,7	2.0 91.2 2012 64.1 60.1 849,865 70,405 26,060 12,044 41.1 65.9 73.1 15.2 2.2 1.0 7.8 206.3 19.9 31.9 35.4 7.4 1.1	2.4	2
Net electricity imports Bioenergy & waste Fossil fuel dependency (7) In original units of measure Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (4)(5) Net electricity imports Million tonnes of oil equival Coal (1) Petroleum (2) Natural gas (3) Nuclear electricity (5) Net electricity imports Bioenergy & waste Total (6) Percentage shares (energy Coal Petroleum Natural gas Nuclear electricity Wind & Hydro electricity Wind & Hydro electricity Vind & Vaste Total (6) Percentage shares (energy Coal Petroleum Natural gas Nuclear electricity Wind & Hydro electricity Wind & Hydro electricity Net electricity imports Bioenergy & waste	Unit M.tonnes " GWh "	1.8 89.9 2010 50.8 63.0r 1,085,364r 62,140 13,801r 2,663 32.2 69.0r 93.3 13.9 1.2 0.2 6.9 216.8r 14.9r 31.8r 43.0r 6.4	1.9 90.2 2011 50.5 61.2r 898,886r 68,980 21,445r 6,222 32.4 67.1r 77.3r 15.6 1.8 0.5 7.3r 202.1r	2.0 91.2 2012 64.1 60.1 849,865 70,405 26,060 12,044 41.1 65.9 73.1 15.2 2.2 2.1 1.0 7.8 206.3 19.9 31.9 35.4 7.4	2.4	89 89

Fossil fuel dependency (7)

(1) Includes other solid fuels.

87.5

87.3

⁽²⁾ Excludes petroleum for non-energy use and marine bunkers.

⁽³⁾ Includes colliery methane, non-energy use of natural gas up to 1988.

⁽⁴⁾ Electricity generated i.e. including own use.

⁽⁵⁾ Excludes pumped storage. Includes generation at wind stations from 1988.

⁽⁶⁾ Following the introduction of the energy balance presentation it has been possible to separately identify the losses from the statistical difference for gas and electricity, bringing them onto the same basis as other fuels. This has been accounted for in the total from 1994 onwards.

⁽⁷⁾ Fossil fuel share of energy consumption

1.1.2 Availability and consumption of primary fuels and equivalents (energy supplied basis) 1970 to 2012

						Available supply								
			Production					Imports				Exports		
			Natural	Primary				Natural	Elec-					
	Coal	Petroleum	gas	electricity	Total	Coal I	Petroleum	gas	tricity	Total	Coal I	Petroleum	Total	
		(1)	(2)	(3)	(4)	(5)	(6)				(5)	(6)	(7)	
1970	92,792	166	10,461	7,388	110,807	81	131,142	839	48	132,109	2,620	19,762	22,381	
1971	94,178	227	17,384	7,661	119,450	2,887	136,359	836	10	140,092	2,048	20,024	22,071	
1972	76,484	358	25,084	8,163	110,089	3,408	138,253	771	40	142,472	1,433	21,160	22,593	
1973	82,636	400	27,235	7,793	118,064	1,214	144,117	738	5	146,074	2,131	22,026	24,157	
1974	68,630	438	32,847	9,322	111,237	2,317	136,472	612	5	139,407	2,149	17,283	19,432	
1975	79,172	1,675	34,203	8,446	123,496	3,209	111,703	844	8	115,763	1,975	16,517	18,492	
1976	75,988	13,114	36,221	9,951	135,274	2,010	108,818	967	-	111,796	1,506	21,671	23,177	
1977	74,769	41,186	37,845	10,973	164,773	1,761	90,004	1,680	-	93,445	1,753	33,112	34,865	
1978	75,479	58,184	36,241	10,308	180,212	1,736	85,815	4,758	-	92,309	2,164	41,289	43,460	
1979	74,028	83,966	36,596	10,598	205,188	3,169	77,903	8,323	-	89,394	2,025	57,607	59,632	
1980	78,502	86,911	34,790	10,247	210,450	5,030	60,385	9,995	-	75,411	3,320	58,385	61,705	
1981	78,008	96,941	34,712	10,562	220,223	3,192	50,040	10,681	-	63,912	6,884	69,615	76,500	
1982	76,069	112,519	35,281	12,274	236,143	3,360	49,944	9,885	-	63,189	5,693	80,595	86,288	
1983	72,696	125,482	36,379	13,866	248,423	3,713	43,543	10,701	-	57,957	4,844	90,608	95,452	
1984	30,719	137,646	35,563	14,845	218,773	7,980	59,146	12,606	-	79,731	1,668	101,289	102,957	
1985	56,572	139,404	39,679	16,851	252,506	9,482	52,577	12,645	-	74,703	2,441	106,602	109,043	
1986	65,592	139,084	41,717	15,839	262,232	7,794	57,610	11,784	366	77,553	2,615	112,166	114,796	
1987	63,189	135,071	43,674	14,797	256,731	7,363	54,305	11,079	1,000	73,746	1,872	107,108	108,980	
1988	63,303	125,469	42,059	16,990	248,469	9,270	58,254	9,922	1,103	78,550	1,595	97,266	98,861	
1989	60,882	100,373	41,188	18,150	221,320	8,840	64,153	9,784	1,163	83,941	1,738	74,434	76,249	
1990	56,443	100,104	45,480	16,706	219,446	10,271	69,217	6,866	1,031	87,385	1,880	80,408	82,293	
1991	57,555	99,890	50,638	17,830	226,669	13,493	72,942	6,193	1,412	94,040	1,526	81,105	82,632	
1992	51,514	103,734	51,494	18,924	226,547	13,955	74,025	5,268	1,438	94,686	854	85,245	86,155	
1993	41,588	109,613	60,542	21,969	234,882	13,103	77,612	4,173	1,438	96,326	954	95,312	96,854	
1994	29,704	138,937	64,636	21,670	256,559	10,840	68,680	2,843	1,452	83,815	1,098	114,083	116,003	
1995	32,751	142,746	70,807	21,735	269,738	11,615	63,341	1,673	1,405	78,034	889	116,001	117,859	
1996	31,135	142,079	84,180	22,393	281,559	13,141	64,347	1,703	1,444	80,635	896	114,909	117,115	
1997	30,303	140,443	85,887	23,535	282,082	14,400	63,813	1,209	1,429	80,850	1,061	115,815	118,743	
1998	25,757	145,263	90,186	23,950	287,233	15,371	64,696	910	1,083	82,061	931	118,896	122,556	
1999	23,219	150,160	99,109	22,942	297,655	14,039	64,085	1,106	1,247	80,476	774	123,920	131,976	
2000	19,551	138,282	108,397	20,153	288,690	16,079	74,812	2,238	1,230	94,359	813	123,923	137,330	
2001	19,969	127,828	105,870	21,227	277,426	23,565	77,235	2,619	917	104,337	679	115,680	128,277	
2002	18,808	127,037	103,646		272,864	18,995	78,348	5,201		103,334	667		134,451	
2003	17,636	116,242	102,996	20,428	260,310	21,396	77,062	7,420	440	106,430	530	107,201	123,208	
2004	15,594	104,547	96,411	18,746	238,378	24,182	88,394	11,439	841	125,258	572	103,621	114,202	
2005	12,714	92,883	88,219	19,044	216,541	29,157	88,791	14,904	960	134,299	509	91,470	100,494	
2006	11,418	83,958	80,012	17,889	197,246	33,363	94,226	20,983	884	150,006	462	86,244	97,410	
2007	10,697	83,912	72,125	14,927	185,970	28,928	90,143	29,065	741	149,331	589	88,394	99,975	
2008	11,305	78,580	69,681		176,991r	29,249r	91,784r	35,000	1,057	158,065r	607r	84,312r	95,576r	
2009	11,039	74,739	59,737		166,890r	25,100r	84,315r	39,191	568	150,481r	618r	77,476r	90,250r	
2010	11,470	68,983	57,187		157,929r	17,208r	85,935r	50,688	614	156,373r	908	74,565r	91,215r	
2011	11,580	56,902	45,291r		136,827r	21,434	88,239r	50,251	747	162,525r	727	67,209r	84,126r	
2012	10,634	48,756	38,934		122,142	29,210	94,617	47,059		173,797	763	66,684	80,286	

⁽¹⁾ Crude oil plus all condensates and petroleum gases extracted at gas separation plants.

⁽²⁾ Includes colliery methane.

⁽³⁾ Nuclear and natural flow hydro electricty excluding generation of pumped storage stations. From 1988 includes generation at wind stations.

⁽⁴⁾ Includes solar and geothermal heat, solid renewable sources (wood, waste, etc), and gaseous renewable sources (landfill gas, sewage gas) from 1988.

⁽⁵⁾ Includes other solid fuels.

⁽⁶⁾ Crude and process oils and petroleum products.

⁽⁷⁾ Includes exports of natural gas and electricity.

1.1.2 Availability and consumption of primary fuels and equivalents (energy supplied basis) 1970 to 2012 (continued)

					(001		,			·	Thousand	d tonnes	of oil eq	uivalent
	Marine				Statistic	al		Gross						
	Bunkers	Stock c	hanges (8)	Difference	ce (9)		inland	Non-	In	and consu	ımption fo	r energy u	ise
	Petro-	0 1	Petro-	Nat-		Petro-		consum-	energy		Petro-	Natural	Primary	
	leum	Coal <i>(5)</i>	leum (6)	ural gas		leum (6)	Total (13)	ption (14)	use (10)	Coal (5)	leum (6)	gas (2)(11)	electricity (3)(12)	Total <i>(4)</i>
		(0)	(0)	gas	(0)	(0)	(13)	(17)	(10)	(0)	(0)	(2)(11)	(3)(12)	(7)
1970	+5,721	+8,542	-680		+199	+466	+665	223,341	10,859	98,994	92,366	11,300	7,435	210,095
1971	+5,874	-7,046	-3,489		-239	-652	-891	220,170	10,839	87,732	93,543	18,220	7,672	207,167
1972	+5,265	-1,370	+2,904		-242	-887	-1,129	225,109	11,474	76,847	100,212	25,855	8,203	211,117
1973	+5,769	+1,456	+458		+60	-340	-280	235,847	12,635	83,235	101,501	27,974	7,797	220,507
1974	+4,922	+4,839	-5,139		-360	-514	-874	225,116	12,865	73,278	94,327	33,460	9,326	210,391
1975	+3,572	-6,489	+3,660		-202	-395	-597	213,769	10,255	73,716	84,963	35,060	8,453	202,192
1976	+3,698	-1,597	-348		+121	-254	-133	218,116	10,925	75,016	83,480	37,188	9,951	205,635
1977	+2,942	+600	+2,466		-113	-557	-670	222,806	10,517	75,263	85,110	39,526	10,973	210,872
1978	+2,733	-1,368	-814		-363	-569	-932	223,214	10,245	73,321	87,177	40,999	10,301	211,798
1979	+2,789	+3,600	-2,229		+43	-806	-763	232,768	10,232	78,814	87,681	44,919	10,597	222,011
1980	+2,562	-6,789	+40		-171	-1,567	-1,738	213,118	7,464	73,263	76,197	44,785	10,247	204,492
1981	+2,156	-2,013	+3,882		+562	-154	+408	207,756	8,111	72,865	69,539	45,392	10,564	198,360
1982	+2,715	-5,660	+2,305		-118	-2,315	-2,433	204,540	8,134	67,958	70,671	45,166	12,274	196,069
1983	+2,118	-3,209	+1,010		+234	-544	-310	206,290	8,625	68,590	67,228	47,080	13,866	196,764
1984	+2,370	+11,842	+922		-136	+247	+111	206,052	8,847	48,738	84,651	48,168	14,845	196,402
1985	+2,239	+1,461	+297	-521	-249	-731	-980	216,184	9,230	64,824	72,179	51,803	16,851	205,657
1986	+2,212	-1,889	+338	-836	+1,126	-83	+1,043	221,432	10,247	70,008	71,148	52,665	16,189	210,010
1987	+1,756	+3,396	+338	-662	-355	-146	-501	222,311	10,290	71,721	69,431	54,090	15,796	211,038
1988	+1,932	-1,547	+1,272	-637	+189	-111	+78	225,392	10,970	69,621	74,042	51,352	18,083	213,098
1989	+2,525	-1,787	-628	-281	+817	+159	+976	224,767	12,039	67,014	75,399	49,113	19,236	211,433
1990	+2,666	+891	+1,049	+108	+1,229	+990	+2,219	226,139	11,252	66,954	77,159	51,187	17,733	213,687
	+2,618	-3,402	-851	-273	+947	+448	+1,395	232,330	12,184	67,067	77,137	55,362	19,240	219,505
	+2,688	-2,439	+709	-348	+884	-647	+237	230,549	12,890	63,060	77,492	55,080	20,359	216,815
1993		+766	-631	+84	+411	+1,597	+2,008	233,964	13,012	54,913	78,126	62,948	23,406	220,564
1994	,	+11,055	+454	+233	+772	-1,668	-87	231,956	13,521	51,272	76,668	64,857	23,087	217,491
	+2,602	+5,088	+1,122	+820	+820	-426	+1,752	232,458	13,735	48,924	75,421	69,236	23,116	218,421
	+2,813	+2,521	-315	-236	+165	-1,814	+701	243,535	13,547	45,738	77,819	80,984	23,833	229,988
1997		-2,389	+320	-354	+462	-1,784	-1,048	239,694	12,879	40,792	75,483	83,534	24,960	226,814
1998		+773	-741	-32	+39	-692	-38	243,480	12,737	40,970	75,357	87,316	25,023	230,743
1999	+2,471	-491	+428	+670	-669	+1,190	+715	244,291	12,963	35,993	76,433	92,511	24,166	231,328
2000	. 0. 000	. 0. 700	.007	050	004	. 700	. 000	0.47.000	40.000	20.544	70 700	05.000	04.070	004.007
	+2,208	+3,723	+807	-952	-234	+783	+920	247,090	12,283	38,541	76,720	95,868	21,372	234,807
	+2,433	-2,077	-1,333	-57	-196	+486	+569	247,586	10,732	40,778	75,863	95,560	22,121	236,855
	+2,044	+564	+1,514	-633	+154	-490	-99	241,149	11,544	37,699	73,480	94,328	21,342	229,605
	+1,879	+1,979	+217	+304	-146	-451	-273	244,152	12,285	40,482	73,017	94,636	20,614	231,867
	+2,221	-139 1 503	-476	-536	-51	-227	-6	246,062	12,429	39,065	75,056	96,640	19,390	233,633
	+2,174 +2,479	-1,503 -061	+1,674	+114	+17	+348	+394	248,457	12,143	39,859	78,241 77,403	94,286	19,760 18,536	236,313 233,111
		-961	-1,325	-553	-156	-1 200	-135	244,524	11,413	43,358	77,403	89,392	18,536	
	+2,506	+1,926 -1,787r	+2,036	+471	-1 +144r	-200	-219 -640r	237,252	9,728	40,961	76,343	90,192	15,376	227,525 223,533r
	+4,256r +4,036r	-1,787r -4,195r	+313 +959	-265 -419	+144r -124r	+93r +20r	+640r -435r	233,485r 219,430r		38,160r 31,326r	72,862r 70,068r	93,162r 86,128r	,	223,533r 210,407r
	+3,552r		+605	+1,313	-1241 -8r	+64r	-4331 -200r	219,4301 225,906r		32,224r		93,324r		216,787r
	+3,804r		+877	-1,945	-41r	-368r	-808r	210,502r		32,436r		77,290r		202,055r
	+3,317	+2,012	-386	-23	+131	-288	-372	213,939	7,605	41,094	65,893	73,075	18,482	206,334

⁽⁸⁾ Stock fall (+), stock rise (-).

⁽⁹⁾ Recorded demand minus supply.

⁽¹⁰⁾ Petroleum products for feedstock for petrochemical plants, industrial and white spirits, lubricants bitumen and wax. Also includes miscellaneous petroleum products mainly for inland consumption but excludes small quantities derived from coal. From 1989 also includes estimated quantities of natural gas used for non-energy purposes. Data for non-energy use of natural gas can be found in Chapter 1, Tables 1.1 to 1.3 and Chapter 4, Tables 4.1 and 4.2.

⁽¹¹⁾ Includes non-energy use of natural gas up to 1988. (See footnote 10).

⁽¹²⁾ Includes net imports of electricity.

⁽¹³⁾ As of 1994 this total includes the statistical differences for electricity and natural gas.

⁽¹⁴⁾ Equivalent to primary demand as in Chapter 1, Tables 1.1 to 1.3.

1.1.3 Comparison of net imports of fuel with total consumption of primary fuels and equivalents, 1970 to 2012

Per cent Per cent		Gross inland consumption	Net imports (+) /net		
Pubs marine bunkers				Import dependency (2)	Export ratio (3)
C			experte () of facto	import dependency (2)	2xport ratio (0)
Million tonnes of oil equivalent Per cent		· · · · · · · · · · · · · · · · · · ·	(R)	(C)	(D)
1970 229.1 109.7 47.9 - 1971 226.0 118.0 52.2 - 1972 230.4 119.9 52.0 - 1973 241.6 121.9 50.5 - 1974 230.0 120.0 52.2 - 1975 217.3 97.3 44.8 - 1976 221.8 88.6 40.0 - 1977 225.7 58.6 25.9 - 1978 225.9 48.8 21.6 - 1979 235.6 29.8 12.6 - 1980 215.7 13.7 6.4 - 1981 209.9 -12.6 - 6.0 1982 207.3 -23.1 - 11.1 1983 208.4 -37.5 - 18.0 1984 208.4 -23.2 - 11.1 1985 218.4 -34.3 - 15.7	-				
1971 226.0 118.0 52.2 - 1972 230.4 119.9 52.0 - 1973 241.6 121.9 50.5 - 1974 230.0 120.0 52.2 - 1975 217.3 97.3 44.8 - 1976 221.8 88.6 40.0 - 1977 225.7 58.6 25.9 - 1978 225.9 48.8 21.6 - 1979 235.6 29.8 12.6 - 1980 215.7 13.7 6.4 - 1981 209.9 -12.6 - 6.0 1982 207.3 -23.1 - 11.1 1983 208.4 -37.5 - 18.0 1984 208.4 -33.2 - 11.1 1985 218.4 -34.3 - 15.7 1986 223.6 -37.2 - 16.7	4070			-	<u> </u>
1972 230.4 119.9 52.0 - 1973 241.6 121.9 50.5 - 1974 230.0 120.0 52.2 - 1975 217.3 97.3 44.8 - 1976 221.8 88.6 40.0 - 1977 225.7 58.6 25.9 - 1978 225.9 48.8 21.6 - 1979 235.6 29.8 12.6 - 1980 215.7 13.7 6.4 - 1981 209.9 -12.6 - 6.0 1982 207.3 -23.1 - 11.1 1983 208.4 -37.5 - 18.0 1984 208.4 -37.5 - 18.0 1985 218.4 -34.3 - 15.7 1986 223.6 -37.2 - 16.7 1987 224.1 -35.2 - 15.7					=
1973 241.6 121.9 50.5 - 1974 230.0 120.0 52.2 - 1975 217.3 97.3 44.8 - 1976 221.8 88.6 40.0 - 1977 225.7 58.6 25.9 - 1978 225.9 48.8 21.6 - 1979 235.6 29.8 12.6 - 1980 215.7 13.7 6.4 - 1981 209.9 -12.6 - 6.0 1982 207.3 -23.1 - 11.1 1983 208.4 -37.5 - 18.0 1984 208.4 -37.5 - 18.0 1985 218.4 -34.3 - 15.7 1986 223.6 -37.2 - 16.7 1987 224.1 -35.2 - 15.7 1988 227.3 -20.3 - 8.9 1989 227.3 7.7 3.4 - 1991 2					=
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1982 207.3 -23.1 - 11.1 1983 208.4 -37.5 - 18.0 1984 208.4 -23.2 - 11.1 1985 218.4 -34.3 - 15.7 1986 223.6 -37.2 - 16.7 1987 224.1 -35.2 - 15.7 1988 227.3 -20.3 - 8.9 1989 227.3 7.7 3.4 - 1990 228.8 5.1 2.2 - 1991 234.9 11.4 4.9 - 1992 233.2 8.5 3.7 - 1993 236.6 -0.5 - 0.2 1994 234.4 -32.2 - 13.7 1995 235.1 -39.8 - 16.9 1996 246.3 -36.5 - 14.8 1997 242.8 -37.9 - 15.6 1998 246.7 -40.5 - 16.4 1999 246	1980	215.7	13.7	6.4	-
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2002 243.2 -31.1 - 12.8 2003 246.0 -16.8 - 6.8 2004 248.3 11.1 4.5 - 2005 250.6 33.8 13.5 - 2006 247.0 52.6 21.3 - 2007 239.8 49.4 20.6 - 2008 237.7 62.5r 26.3r -	2000	249.3	-43.0	-	17.2
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2009 223.5r 60.2r 27.0r -	2009	223.5r	60.2r	27.0r	-
2010 229.5r 65.2r 28.4r -	2010	229.5r	65.2r	28.4r	-
2011 214.3r 78.4r 36.6r -	2011	214.3r	78.4r	36.6r	-
2012 217.3 93.5 43.0 -	2012			43.0	-

⁽¹⁾ Includes non-energy use. Equivalent to primary supply plus marine bunkers.

(A)

(3) Export ratio (D) = Net exports (B) $\times 100$

(A)

⁽²⁾ Import dependency (C) = Net imports (B) x 100

1.1.4 Primary energy consumption, gross domestic product and the energy ratio⁽¹⁾ 1970 to 2012

	Total inland consumption of primary	Gross domestic product at		
	energy (temperature corrected) (2)	market prices (2010 prices)	Energy ratio (3)	
	Million tonnes of		Tonnes of oil equivalent per	Index
	oil equivalent	£ billion	£1 million GDP	1970 = 100
	(A)	(B)	(C)	1370 = 100
	(A)	(<i>B</i>)	(0)	
1970	211.9	561.2r	377.6r	100.0
1971		574.3r	365.2r	96.7
1972		596.5r	356.4r	94.4
1973		640.9r	348.1r	92.2
1974		633.7r	335.2r	88.8
1975		630.5r	326.8r	86.5
1976		646.6r	323.1r	85.6
1977		662.3r	321.8r	85.2
1978		684.0r	312.4r	82.7
1979		703.4r	312.8r	82.8
1980		689.3r	299.1r	79.2
1981		680.7r	291.9r	77.3
1982		695.9r	282.1r	74.7
1983		722.6r	273.3r	72.4
1984	196.7	743.9r	264.4r	70.0
1985	203.1	772.7r	262.9r	69.6
1986	206.8	805.9r	256.6r	68.0
1987		847.5r	247.8r	65.6
1988		894.7r	243.3r	64.4
1989		917.9r	237.3r	62.8
4000	004.0	004.0	207.4	00.0
1990		934.6r	237.1r	62.8
1991		922.5r	240.0r	63.6r
1992		934.5r	236.1r	62.5r
1993		967.1r	230.1r	60.9r
1994		1,015.0r	218.2r	57.8r
1995		1,050.8r	212.8r	56.3r
1996		1,087.5r	208.8r	55.3r
1997		1,134.8r	202.0r	53.5r
1998	236.8	1,175.3r	201.5r	53.4r
1999	238.0	1,209.9r	196.7r	
				52.1r
2000		1,262.6r	189.8r	50.3r
2001	240.5	1,290.2r	186.4r	49.4r
2002	235.9r	1,319.8r	178.7r	47.3r
2003	235.0r	1,371.9r	171.3r	45.4r
2004	238.2r	1,415.5r	168.3r	44.6r
2005	240.6r	1,461.3r	164.7r	43.6r
2006		1,501.5r	157.2r	41.6r
2007		1,553.0r	150.3r	39.8r
2008		1,541.0r	145.8r	38.6r
2009		1,461.4r	144.8r	38.3r
_300		, , , , , , ,		
2010	211.1r	1,485.6r	142.1r	37.6r
2011	207.5r	1,502.2r	138.1r	36.6r
2012		1,504.8	137.0	36.3

⁽¹⁾ See paragraphs 1.1.13 to 1.1.17.

(B)

⁽²⁾ The methodology used to temperature correct gas consumption has been modified from 1990. See paragraph 1.1.15 onwards.

⁽³⁾ Energy ratio (C) = (A)

Coke and Coke and Cher solid Coke oven Town Natural gas gas gas GS Electricity Sold Electricity Electricity Sold Electricity Sold Electricity Electricity Sold Electricity Elec						Indust	ry (2)			dodna torine		
Total Decision Total Color Total Color Total Color Total Color Total Color Total Color C												
1970 12,681 9,655 209 1,164 1,778 1,788 6,275 28,397 62,333 1971 10,232 8,298 176 1,1118 1,038 5,194 6,313 28,130 60,746 1972 7,675 7,832 252 1,1111 1,154 8,136 6,292 28,674 61,307 1973 7,950 8,340 226 1,290 788 10,791 6,884 24,8691 65,149 1974 7,290 7,167 201 975 404 12,320 6,517 24,698 60,058 1975 6,373 6,338 199 1,038 222 12,555 6,479 24,586 60,058 1975 6,373 6,338 199 1,038 222 12,555 6,479 24,145 55,444 1977 5,5047 6,368 158 1,010 30 14,940 7,053 21,978 57,574 1978 5,547 6,368 158 1,010 30 14,940 7,053 21,978 57,574 1978 5,627 5,932 179 899 15 15,149 7,222 21,570 56,673 1979 6,081 6,512 148 977 18 15,663 7,527 21,590 58,564 1980 5,083 3,335 133 642 13 15,258 6,854 16,938 48,291 1981 4,534 4,564 116 665 13 14,489 6,622 11,1761 45,776 1983 4,706 4,307 126 635 5 14,021 6,376 11,188 4,219 1986 4,408 4,665 40,83 144 606 81 14,689 6,6376 11,188 4,219 1986 4,708 4,665 4,665 151 768 3 14,889 6,6373 11,188 4,1138 1986 4,408 4,665 80 80 82 1 3 14,489 6,638 11,189 1986 4,708 4,665 5,517 768 3 14,866 6,788 11,189 1986 4,144 98 778 3 13,542 6,884 10,240 40,931 1987 4,048 4,660 80 821 3 14,137 8,005 8,466 40,211 1988 4,166 5,041 55 771 12,833 8,350 100 9,441 40,907 1989 4,172 3,951 42 602 12,839 8,555 107 8,242 38,660 1991 4,270 3,691 14 570 12,183 8,350 100 9,441 40,907 1997 1,189 4,172 3,951 42 602 12,839 8,655 107 8,242 38,660 1991 4,270 3,691 14 570 12,183 8,350 100 9,441 40,907 1997 1,189 4,172 3,551 42 602 12,183 8,350 100 9,441 40,907 1997 1,189 4,172 3,551 42 602 12,183 8,183 1,144 8,184 8,253 1,144 8,184 8,264 30 613 5,771 1,12,183 8,350 100 9,441 40,907 1997 1,189 4,172 3,551 42 602 12,183 8,183 1,184 8,283 8,350 100 9,441 40,907 1,189 4,1					Coke oven	Town			Heat			
1971 10,232 8,298 176 1,118 1,038 5,194 6,313		Coal	breeze (3)	fuels(4)	gas	gas	gas <i>(5)</i>	Electricity	sold	& waste	Petroleum	Total (3)
1971 10,232 8,298 176 1,118 1,038 5,194 6,313	1970	12.681	9.655	209	1.164	1.778	1.788	6.275			28.397	62.333
1972 7,675 7,832 252 1,111 1,154 8,136 6,292 28,674 61,307 1973 7,950 8,340 226 1,290 788 10,791 6,884 28,691 65,149 1974 7,290 7,167 201 9,75 494 12,320 6,517 24,968 60,058 1975 6,373 6,338 199 1,038 222 12,555 6,479 22,145 55,444 1977 5,947 6,368 158 10,10 30 14,940 7,053 21,966 57,584 1977 5,947 6,368 158 10,10 30 14,940 7,053 21,978 57,574 1978 5,627 5,932 179 899 15 15,149 7,222 21,570 56,673 1979 6,081 6,512 148 9,77 18 15,663 7,527 22,145 55,444 1980 5,083 3,335 133 642 13 15,258 6,854 16,938 48,291 1980 4,458 4,4564 116 665 13 14,489 6,622 14,761 45,776 1982 4,668 4,083 144 605 8 14,588 6,353 13,530 4,007 126 635 5 14,021 6,376 11,988 42,191 1984 3,796 4,408 68 537 5 14,021 6,376 11,988 42,191 1984 3,796 4,408 68 537 5 14,021 6,376 11,988 42,119 1986 4,170 4,468 68 537 5 14,021 6,376 11,988 42,119 1986 4,165 5,242 4,144 98 778 3 13,542 6,884 10,240 40,931 1987 4,048 4,660 80 821 3 14,485 6,637 10,899 41,138 1985 4,708 4,665 5 151 768 3 14,865 6,837 10,899 41,138 1985 4,708 4,666 5,041 55 771 12,883 8,350 100 9,441 40,807 1989 4,486 30 613 12,515 8,550 100 9,441 40,807 1989 4,489 4,286 30 613 12,515 8,550 100 9,441 40,807 1989 4,489 4,286 30 613 12,889 8,855 100 9,441 40,807 1999 4,489 4,286 30 613 12,889 8,655 100 9,441 40,807 1999 4,489 4,286 30 613 12,889 8,655 100 9,441 40,807 1999 4,489 4,286 30 613 12,889 8,655 100 9,441 40,807 1999 4,489 4,286 30 613 12,889 8,655 100 9,441 40,807 1999 1,353 3,613 7 560 12,889 8,655 107 8,824 3,8450 1999 1,353 3,613 7 560 11,521 8,328 266 8,582 36,440 1994 3,402 3,888 194 590 12,889 8,655 100 9,441 40,807 1999 1,353 3,613 7 560 11,521 8,328 266 8,582 36,440 1999 1,353 3,613 7 560 11,521 8,328 266 8,582 36,440 1999 1,353 3,613 7 560 11,521 8,328 266 8,582 36,440 3,470 1999 1,353 3,613 7 560 11,521 8,328 266 8,583 3,641 1999 1,353 3,613 7 7 560 11,521 8,328 266 8,592 3,4												
1973												
1975 6,373 6,338 199 1,038 222 12,555 6,479 22,145 55,444 1976 5,902 7,129 131 1,091 68 14,237 6,950 21,966 57,584 1977 5,947 6,368 158 1,010 30 14,940 7,053 21,978 57,574 1978 5,627 5,932 179 889 15 15,149 7,222 21,570 56,673 1979 6,081 6,512 148 977 18 15,663 7,527 21,550 56,673 1980 5,083 3,335 133 642 13 15,258 6,854 16,938 48,291 1981 4,534 4,564 116 665 13 14,489 6,622 14,761 45,767 1983 4,708 4,307 126 635 5 14,021 6,353 13,530 44,007 1983 4,708 4,307 126 635 5 14,021 6,376 11,988 42,191 1984 3,786 4,408 68 537 5 14,686 6,758 10,859 41,138 1985 4,708 4,655 151 768 3 14,865 6,373 10,240 40,931 1987 4,048 4,666 4,86	1973											
1976 5,902 7,129 131 1,091 68 14,237 6,950	1974	7,290	7,167	201	975	494	12,320	6,517			24,968	60,058
1977 5,947 6,368 1,58 1,010 30 14,940 7,053 21,978 57,574 56,673 1978 5,627 5,932 179 899 15 15,149 7,222 21,570 56,673 1980 5,083 3,335 133 642 13 15,258 6,854 16,938 48,291 1981 4,534 4,564 116 665 13 14,489 6,622 14,761 45,776 1983 4,708 4,307 126 635 5 14,021 6,376 11,988 42,191 1984 3,796 4,408 68 537 5 14,686 6,788 10,859 41,138 1986 4,708 4,665 151 768 3 13,486 6,788 10,859 41,138 1986 4,708 4,665 151 768 3 14,865	1975	6,373	6,338	199	1,038	222	12,555	6,479			22,145	55,444
1978 5,627 5,932 179 899 15 15,149 7,222 21,570 56,673 1980 6,081 6,512 148 977 18 15,663 7,527 21,590 56,564 1980 5,083 3,335 133 642 13 15,258 6,854 16,938 48,291 1981 4,534 4,664 116 665 13 14,489 6,622 14,761 45,776 1982 4,668 4,083 144 605 8 14,588 6,336 13,530 44,007 1984 3,796 4,408 68 537 5 14,686 6,758 10,859 41,138 1986(11) 5,242 4,144 98 778 3 13,542 6,884 10,249 40,931 1988 4,166 5,041 55 771 - 12,883 8,350	1976	5,902	7,129	131	1,091	68	14,237	6,950			21,966	57,584
1979 6,081 6,512 148 977 18 15,663 7,527 21,590 58,564 1980 5,083 3,335 133 642 13 15,258 6,854 16,938 48,291 1981 4,668 4,063 144 605 8 14,564 13,530 44,007 1983 4,708 4,307 126 635 5 14,021 6,376 11,988 42,191 1984 3,796 4,408 68 537 5 14,686 6,376 10,859 41,138 1985 4,708 4,665 151 768 3 14,866 6,376 10,859 41,138 1984 4,708 4,408 68 537 5 14,686 6,376 10,859 41,138 1984 4,166 50 68 21 3 14,237 8,005 <td>1977</td> <td>5,947</td> <td>6,368</td> <td>158</td> <td>1,010</td> <td>30</td> <td>14,940</td> <td>7,053</td> <td></td> <td></td> <td>21,978</td> <td>57,574</td>	1977	5,947	6,368	158	1,010	30	14,940	7,053			21,978	57,574
1980	1978	5,627	5,932	179	899	15	15,149	7,222			21,570	56,673
1981 4,564 4,668 4,083 144 665 8 14,488 6,622 14,761 45,776 1982 4,668 4,083 144 605 8 14,588 6,353 11,988 42,191 1984 3,796 4,408 68 537 5 14,686 6,758 10,859 41,138 1985 4,708 4,665 151 768 3 14,865 6,837 9,701 41,702 1986(11) 5,242 4,144 98 778 3 13,542 6,884 10,240 40,931 1987 4,048 4,660 80 821 3 14,137 8,005 8,456 40,211 1988 4,166 5,041 55 771 - 12,883 8,350 100 9,441 40,807 1990 4,172 3,951 42 602 - 12,889 8,655	1979	6,081	6,512	148	977	18	15,663	7,527			21,590	58,564
1981 4,564 4,668 4,083 144 665 8 14,488 6,622 14,761 45,776 1982 4,668 4,083 144 605 8 14,588 6,353 11,988 42,191 1984 3,796 4,408 68 537 5 14,686 6,758 10,859 41,138 1985 4,708 4,665 151 768 3 14,865 6,837 9,701 41,702 1986(11) 5,242 4,144 98 778 3 13,542 6,884 10,240 40,931 1987 4,048 4,660 80 821 3 14,137 8,005 8,456 40,211 1988 4,166 5,041 55 771 - 12,883 8,350 100 9,441 40,807 1990 4,172 3,951 42 602 - 12,889 8,655	1980	5.083	3.335	133	642	13	15.258	6.854			16.938	48.291
1982 4,668 4,083 144 605 8 14,588 6,353 13,530 44,007 1983 4,708 4,307 126 635 5 14,021 6,376 11,988 42,191 1984 3,796 4,408 68 537 5 14,666 6,756 9,701 41,702 1986(11) 5,242 4,144 98 778 3 13,542 6,884 10,240 40,931 1987 4,048 4,660 80 821 3 14,137 8,005 8,456 40,211 1988 4,166 5,041 55 771 - 12,883 8,350 100 9,441 40,807 1989 4,489 4,286 30 613 - 12,883 8,350 100 9,441 40,807 1990 4,172 3,951 42 602 - 12,889 8,655 107												
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2010 1,136 339 163 97 - 9,837r 8,987 822 449r 4,934r 26,850r 2011 1,111 306 160 60r - 9,765r 8,800r 769r 505r 4,363r 25,903r	2008	1,296	443	174	92	-	11,516r	9,815	1,021	414r	5,321r	30,132r
2011 1,111 306 160 60r - 9,765r 8,800r 769r 505r 4,363r 25,903r	2009	1,152	387	152	49	-	9,728r	8,576	763	415r	4,916r	26,166r
2011 1,111 306 160 60r - 9,765r 8,800r 769r 505r 4,363r 25,903r	2010	1,136	339	163	97	_	9,837r	8,987	822	449r	4,934r	26,850r
						_					,	
	2012	1,060	401	150	55	_	9,520	8,411	795	487	4,261	25,164

⁽¹⁾ Excluding non-energy use of fuels.

⁽²⁾ Includes the iron and steel industry, but from 1994 onwards excludes iron and steel use of fuels for transformation and energy industry own use purposes.

⁽³⁾ Blast furnace gas is included in coke and breeze up to 1995 and covers electricity transformation, use by ovens and losses. From 1996 onwards, blast furnace gas is included in the total and covers just coke ovens and losses, which is consistent with the methodology used for compiling the energy balances.

⁽⁴⁾ Includes, from 1994, manufactured liquid fuels.

⁽⁵⁾ Includes colliery methane. Up to 1988 also includes non-energy use of natural gas

				Tra	nsport							
			Rail		Road					Water	Air	
								Coal			-	
		Coke	Electricity				Bioenergy	derived				Total
	Coal	and breeze	(6)	Petroleum	Electricity	Petroleum	& waste	fuel	Coal	Petroleum	Petroleum	(7)
1970	88	35	234	1,254	3	21,406		15	88	1,184	3,869	28,174
1971	68	13	237	1,186	-	22,412		-	63	1,104	4,247	29,306
1972	53	5	229	1,121	_	23,535		_	23	962	4,514	30,442
1973	58	-	224	1,123	_	25,125		_	10	1,088	4,806	32,435
1974	50	_	234	1,048	_	24,465		_	10	1,239	4,219	31,266
1975	40	_	249	1,000	_	23,948		-	8	1,300	4,340	30,885
1976	43	3	247	945	_	24,994	•	_	8	1,317	4,476	32,032
1977	40	3	252	950	_	25,633	•	-	8	1,312	4,678	32,875
1978	45	3	254	967	_	26,946		-	5	1,300	5,051	34,571
1979	43	3	254	947	-	27,520		-	5	1,363	5,224	35,359
1980	38	3	262	919	_	27,815			5	1,257	5,242	35,541
1981	38	-	259	877	-	27,013	••	-	-	1,237	5,020	34,304
1982	35	-	239		-			-	3		4,993	
1983	35 15	-	229 247	793 849	-	27,797 28,646	••	-	3	1,186 1,207	4,993 5,093	35,037 36,059
		-						-				-
1984	3	-	247	816	-	30,006	••	-	-	1,328	5,383	37,782
1985	3	-	254	821	-	30,586	••	-	-	1,254	5,582	38,500
1986(11)	3	-	259	809	-	32,606		-	-	1,151	6,126	40,954
1987	3	-	264	761	-	34,062		-	-	1,103	6,479	42,672
1988	-	-	282	766	-	36,233		-	-	1,159	6,905	45,345
1989	3	-	272	702	-	37,801		-	-	1,355	7,308	47,442
1990	2	-	455	668	-	38,816		-	-	1,363	7,332	48,635
1991	-	-	454	685	-	38,535		-	-	1,424	6,872	47,973
1992	-	-	461	715	-	39,363		-	-	1,377	7,435	49,355
1993	-	-	641	665	-	39,502		-	-	1,341	7,871	50,024
1994	-	-	599	651	-	39,690		-	-	1,239	8,070	50,253
1995	-	-	636	654	-	39,268		-	-	1,193	8,485	50,238
1996	-	-	710	629	-	40,772		-	-	1,294	8,917	52,321
1997	-	-	729	516	-	41,259		-	-	1,256	9,322	53,083
1998	-	-	732	608	-	41,020		-	-	1,175	10,237	53,772
1999	-	-	738	632	-	41,399		-	-	1,067	11,017	54,853
2000	_	-	741	639	-	41,071		-	_	1,032	11,978	55,461
2001	-	-	759	664	-	41,097		-	-	844	11,774	55,137
2002	-	-	727	662	_	41,936		-	-	702	11,658	55,685
2003	-	-	706	667	_	41,823		-	-	1,234	11,936	56,366
2004	_	_	347	700	2	42,221		-	-	1,196	12,908	57,374
2005	3	_	347	629	2	42,507	74	-	_	1,365	13,856	58,783
2006	14	_	342	627	2	42,513	188	_	_	1,805	13,999	59,489
2007	14	_	339	642	2	42,884	362	_	_	1,612	13,906	59,760
2008	14	_	337	658r	2	41,098	845	-	_	421r	13,426r	56,799r
2009	13	-	346	656r	2	39,635	1,038	-	-	399r	12,751	54,841r
2010	14		349	660r	2	39,159	1,217r			351r	12,288	54,040r
2010	11	-	349 349	692r	2	38,646		-	-	376r		54,040r 54,006r
2011	11 12	-	349 349	692r 683	2	38,646 38,508	1,128 958	-	-	376r 328	12,802 12,408	54,006r 53,248
2012	12	-	349	003		30,5UB	908	-	-	3∠8	12,408	ე პ,248

⁽⁶⁾ Includes, from 1990, electricity used at transport premises (see footnote 11).

⁽⁷⁾ Includes small amounts of natural gas for road transport.

				Dom	estic				
-									
		Coke	Other	Natural			5.		
	01	and	solid	gas	Electricity.	Heat	Bioenergy	Datastassas	Total
	Coal	breeze	fuels	(8)	Electricity	sold	& waste	Petroleum	(4)
1970	14,242	1,761	1,975	8,922	6,622			3,363	36,884
1971	12,164	1,136	2,156	9,900	6,937			3,328	35,621
1972	10,602	849	2,144	11,359	7,471			3,836	36,261
1973	10,565	778	2,053	12,129	7,849			4,202	37,576
1974	9,968	821	1,955	13,562	7,963			3,733	38,002
1975	8,517	645	1,778	14,840	7,670			3,612	37,062
1976	7,910	549	1,640	15,602	7,318			3,615	36,634
1977	8,136	534	1,589	16,600	7,386			3,653	37,898
1978	7,476	471	1,464	18,291	7,378			3,610	38,689
1979	7,688	479	1,431	20,718	7,711			3,539	41,566
1980	6,575	401	1,370	21,258	7,403			2,834	39,841
1981	6,214	368	1,202	22,076	7,260			2,554	39,674
1982	6,242	365	1,146	21,963	7,116			2,385	39,218
1983	5,796	335	1,141	22,346	7,110			2,267	39,014
1984	4,733		728						37,896
1964	,	335 385	957	22,502	7,212 7,582		••	2,385	42,062
	6,290			24,394	,			2,454	
1986(11)	6,121	335	965	25,797	7,892	••		2,590	43,700
1987	5,189	315	1,018	26,450	8,015			2,474	43,460
1988	4,741	300	907	25,833	7,940		205	2,441	42,367
1989	3,719	239	815	24,988	7,935		207	2,355	40,258
1990	3,153	254	762	25,835	8,066		206	2,480	40,756
1991	3,582	210	785	28,721	8,436		209	2,825	44,768
1992	3,105	176	709	28,389	8,555		243	2,889	44,066
1993	3,498	147	751	29,254	8,639		241	3,019	45,549
1994	2,957	67	601	28,355	8,721		242	3,004	43,947
1995	2,077	78	470	28,037	8,790		242	2,997	42,691
1996	2,084	129	588	32,317	9,244		241	3,518	48,120
1997	1,992	59	419	29,710	8,982		225	3,389	44,775
1998	1,819	85	439	30,601	9,408		230	3,543	46,126
1999	1,916	86	410	30,788	9,485	44	230	3,162	46,121
2000	1,448	95	365	31,806	9,617	44	236	3,239	46,851
2000	1,461	48	328	32,625	9,917	32	240	3,527	48,178
2001	1,461	127	289	32,362	10,319	33	240	3,087	40,170
2002	,				,			,	48,293
	813	92	255	33,232	10,576	11	247	3,068	,
2004	733	36	230	34,085	10,679	52	252	3,265	49,333
2005	474	24	199	32,836	10,809	52	318	3,092	47,804
2006	426	16	200	31,550	10,723	52	358	3,249	46,574
2007	487	11	182	30,341	10,583	52	400	2,876	44,931
2008	515	9	229	30,916	10,301	52	381r	3,033r	45,436r
2009	514	7	210	28,590	10,193	52	446r	3,013r	43,025r
2010	536	7	242	33,499	10,218r	52	510r	3,428r	48,493r
2011	540	6	210	25,228r	9,596r	52	592r	2,669r	38,893r
2012	507	5	197	29,156	9,862	52	669	2,705	43,153

⁽⁸⁾ Includes town gas prior to 1989. (Separate figures maybe found in previous editions of this Digest).

				Other final users	(9)		id tollines of oil	
		0-1	Matrical					
		Coke and	Natural gas		Heat	Bioenergy		Total
	Coal	breeze	(8)	Electricity	sold	& waste	Petroleum	(4)
			(-)					('/
1970	2,723	1,499	1,919	3,408		••	9,038	18,586
1971	2,328	688	2,181	3,534			9,184	17,915
1972	2,013	537	2,509	3,650			9,487	18,195
1973	1,731	602	2,728	3,940			9,585	18,586
1974	1,685	567	3,197	3,642			8,401	17,492
1975	1,234	408	3,393	3,894			8,431	17,360
1976	1,300	335	3,831	4,023			8,668	18,157
1977	1,370	315	3,998	4,257	••		9,157	19,097
1978	1,300	275	4,393	4,481	••		8,764	19,213
1979	1,307	285	4,955	4,731		••	8,754	20,031
1980	1,154	237	5,194	4,733			7,403	18,721
1981	1,174	204	5,315	4,804			7,096	18,592
1982	1,222	212	5,486	4,867			6,678	18,464
1983	1,166	257	5,915	5,106			6,403	18,847
1984	1,141	252	6,101	5,063			6,381	18,938
1985	1,123	297	6,718	5,446			6,018	19,603
1986(11)	982	390	7,308	5,731			5,723	20,135
1987	935	368	7,534	5,965			4,988	19,790
1988	831	264	7,569	6,240		138	5,008	20,050
1989	698	119	7,278	6,497		138	4,345	19,075
1990	795	127	7,329	6,426		139	4,402	19,218
1991	753	105	8,640	6,717		149	4,456	20,820
1992	622	88	8,585	6,996		150	4,518	20,959
1993	566	74	8,504	6,999		146	4,446	20,735
1994	496	34	8,695	6,951		172	4,289	20,637
1995	362	39	9,374	7,199		189	4,016	21,179
1996	385	-	10,138	7,495		181	3,909	22,108
1997	375	-	9,697	7,859	••	174	3,362	21,467
1998	291	-	10,114	7,788	••	174	3,144	21,511
1999	189	-	9,156	7,986	1,368	174	2,464	21,338
2000	57	-	9,498	8,155	1,371	172	2,294	21,547
2001	47	-	9,726	8,359	1,294	173	2,568	22,167
2002	14	-	8,670	8,148	730	188	1,805	19,556
2003	17	-	9,177	8,231	648	196	1,145	19,414
2004	19	-	9,757	8,532	373	198	1,438	20,317
2005	38	-	9,526	8,846	386	205	1,763	20,764
2006	24	-	8,655	8,738	384	192	1,521	19,514
2007	19	-	8,154	8,755	390	198	1,493	19,008
2008	21	-	8,369r	8,936	393	227r	1,411r	19,357r
2009	53	-	7,917r	8,549	392	225r	1,251r	18,387r
2010	28	-	8,475r	8,718r	392	305r	1,258r	19,176r
2011	28	-	7,904r	8,585r	385r	270r	1,360	18,531r
2012	17		8,395	8,682	386	278	1,270	19,027

⁽⁹⁾ Mainly agriculture, public administration and commerce. Prior to 1990, including electricity used at transport premises (see footnote 6).

					All fir	nal users			i nousanu to		
			Other			Network					
		Coke and	Other solid fuels	Coke	Town	Natural gas	Electri-	Heat	Bioenergy		Total
	Coal	breeze	(4)	oven gas	gas	(4)	city	sold	& waste	Petroleum	(3)(10)
•	Ooui	DICCZC	(7)	oven gas	gas	(7)	Oity	3010	a wasic	1 Cirolcum	(0)(10)
1970	29,822	12,950	2,184	1,164	10,746	3,662	16,542			68,511	145,977
1971	24,855	10,134	2,333	1,118	8,882	9,431	17,021			69,568	143,589
1972	20,366	9,222	2,396	1,111	8,094	15,063	17,643			72,129	146,205
1973	20,313	9,721	2,280	1,290	5,852	20,584	18,898			74,620	153,744
1974	19,003	8,555	2,156	975	3,836	25,736	18,356			68,072	146,818
1975	16,172	7,391	1,977	1,038	1,796	29,212	18,293			64,776	140,751
1976	15,162	8,016	1,771	1,091	534	33,204	18,537			65,981	144,407
1977	15,502	7,220	1,748	1,010	174	35,393	18,948			67,361	147,444
1978	14,454	6,681	1,642	899	81	37,766	19,336			68,208	149,146
1979	15,124	7,279	1,579	977	91	42,262	20,223			68,937	155,521
1980	12,854	3,975	1,504	642	76	41,647	19,252			62,408	142,394
1981	11,960	5,136	1,317	665	65	41,828	18,945			58,420	138,346
1982	12,169	4,660	1,290	605	55	41,990	18,567			57,360	136,726
1983	11,688	4,899	1,267	635	45	42,242	18,856			56,453	136,111
1984	9,673	4,995	796	537	43	43,251	19,280			57,158	135,753
1985	12,124	5,338	1,108	768	40	45,940	20,118			56,416	141,867
1986(11)	12,348	4,869	1,063	778	28	46,622	20,763			59,245	145,719
1987	10,174	5,343	1,098	821	28	48,096	22,252			58,325	146,132
1988	9,738	5,605	962	771	8	46,277	22,811		443	61,952	148,569
1989	8,909	4,645	845	613	-	44,780	23,254		447	62,685	146,180
1990	8,122	4,333	804	602	-	46,052	23,601		451	63,302	147,268
1991	8,605	4,006	799	570	-	49,676	24,170		467	63,525	151,818
1992	8,101	3,866	723	534	-	48,357	24,206		672	64,632	151,091
1993	7,617	3,833	758	560	-	49,282	24,607		652	65,437	152,747
1994	6,855	3,919	795	590	-	49,935	24,353		901	65,196	152,548
1995	5,279	3,867	654	576	-	50,091	25,279		956	63,679	150,384
1996	4,429	984	821	439	-	56,536	26,453		954	66,096	157,019
1997	4,331	846	667	457	-	54,162	26,759		930	65,418	153,902
1998	3,716	889	682	385	-	55,856	27,143		865	66,107	155,921
1999	3,458	906	625	205	-	55,148	27,751	2,498	688	65,116	156,534
2000	2,733	848	590	216	-	57,077	28,325	2,515	672	66,293	159,365
2001	2,704	766	539	154	-	57,814	28,609	2,327	656	67,084	160,926
2002	2,209	737	459	78	-	55,234	28,667	2,084	682	66,099	156,476
2003	2,078	680	420	53	-	56,701	28,910	1,787	710	66,772	158,147
2004	1,988	595	411	67	-	57,080	29,144	1,258	715	68,647	159,936
2005	1,695	559	370	79	-	55,384	29,981	1,268	798	69,473	159,633
2006	1,627	504	378	106	-	52,633	29,684	1,245	952	69,793	156,999
2007	1,788	524	359	101	-	49,961	29,377	1,338	1,235	69,490	154,222
2008	1,845	452	403	92	-	50,801r	29,391	1,465	1,867r	65,368r	151,724r
2009	1,733	395	362	49	-	46,235r	27,665	1,206	2,125r	62,621r	142,419r
2010	1,713	346	405	97	-	51,811r	28,274r	1,266	2,481r	62,078r	148,558r
2011	1,689r	312	370	60r	-	42,897r	27,332r	1,206r	2,495r	60,909r	137,334r
2012	1,595	406	347	55	-	47,071	27,307	1,233	2,392	60,164	140,592

⁽¹⁰⁾ Before 1971 includes the use for transport of liquid fuel made from coal.

⁽¹¹⁾ See paragraph 1.1.19 about changed treatment of electricity produced, and fuel used by, companies other than major power producers.

	Industry						Domestic					
	Coal and				Heat and		Coal and				Heat and	
	solid	Natural		Petroleum	other	Total	solid	Natural		Petroleum	other	Total
	fuels (3)		Electricity	products (5)	fuels (6)		fuels (3)		Electricity	products (5)		
1970	285	70	475	300		1,130	395	385	645	85		1,510
1971	285	85	530	350		1,250	385	430	730	90		1,635
1972	280	120	540	345		1,285	360	505	830	110		1,805
1973	320	150	595	390		1,455	370	535	885	140		1,930
1974	410	195	775	880		2,260	405	605	1,070	200		2,280
1975	545	240	1,015	920		2,720	440	760	1,495	235		2,930
1976	720	380	1,260	1,065		3,425	500	1,000	1,825	295		3,620
1977	780	535	1,470	1,305		4,090	595	1,205	2,135	360		4,295
1978	800	695	1,670	1,255		4,420	620	1,365	2,380	370		4,735
1979	1,010	820	1,925	1,570		5,325	770	1,575	2,675	475		5,495
1980	675	1,060	2,185	1,815		5,735	920	1,875	3,310	510		6,615
1981	850	1,215	2,420	1,890		6,375	960	2,460	3,905	560		7,885
1982	860	1,335	2,560	1,870		6,625	995	3,070	4,200	610		8,875
1983	900	1,375	2,655	1,800		6,730	1,015	3,520	4,300	645		9,480
1984	845	1,555	2,695	1,810		6,905	830	3,655	4,495	640		9,620
1985	990	1,735	2,750	1,740		7,215	1,120	4,090	4,840	665		10,715
1986	1,000	1,350	2,765	1,065		6,180	1,135	4,385	5,105	460		11,085
1987	865	1,375	3,285	865		6,390	990	4,465	5,140	410		11,005
1988	880	1,225	3,590	785		6,480	830	4,385	5,340	365		10,920
1989	905	1,210	3,965	845		6,925	730	4,455	5,800	390		11,375
1990	930	1,260	3,985	900		7,075	700	4,865	6,255	485		12,305
1991	910	1,115	4,120	905		7,050	795	5,775	7,105	460		14,135
1992	775	970	4,180	790		6,715	710	5,685	7,460	460		14,315
1993	740	915	3,940	895		6,490	780	5,705	7,590	465		14,540
1994	650	1,010	3,855	865		6,380	685	6,020	7,870	455		15,030
1995	605	1,015	3,970	830		6,420	615	6,010	8,060	470		15,155
1996	590	755	3,900	965		6,210	640	6,510	8,380	630		16,165
1997	565	870	3,625	890		5,950	560	6,125	7,965	560		15,210
1998	545	990	3,535	715	40	5,825	525	6,015	7,595	465	30	14,630
1999	430	970	3,730	735	215	6,080	540	5,610	7,600	465	40	14,255
2000	430	1,115	3,435	1,145	205	6,330	465	5,485	7,475	735	40	14,200
2001	445	1,470	3,145	1,235	190	6,485	535	5,735	7,540	715	35	14,560
2002	365	1,280	2,995	1,065	265	5,970	465	6,090	7,510	645	35	14,745
2003	380	1,345	2,925	1,240	220	6,110	320	6,260	7,660	730	30	15,000
2004	525	1,480	3,255	1,485	90	6,835	285	8,285	9,120	805	40	18,535
2005	805r	2,170r	5,060	1,760r	230r	10,025r	215	8,215	9,665	1,050	50	19,195r
2006	975r	2,695r	6,775	2,060r	305r	12,810r	210r	10,100	11,340	1,260r	60r	22,970r
2007	875r	2,035r	6,970	2,155r	330r	12,365r	230	9,950	12,540	1,150r	65r	23,935r
2008	1,425r	2,925r	7,225r	2,605r	425r	14,605r	300	12,070	14,245	1,695r	65	28,375
2009	1,335	2,225r	6,775	1,955r	375r	12,665r	350	12,605	14,535	1,245	70r	28,805r
2010	1,315	2,055r	6,335	2,355r	395r	12,455r	375	14,275	14,085	1,730	305r	30,770r
2011	1,500r	2,475r	6,545	2,570r	395r	13,485r	375	12,325r	14,480r	1,690r	340r	29,210r
2012	1,515	2,635	6,755	2,680	390	13,975	360	15,445	15,570	1,740	365	33,480

⁽¹⁾ All data is to the nearest £5 million. VAT is only included where not refundable. Methodology used to calculate the series has changed over the years, as such the data provides a guide to changing patterns of expenditure on energy, but not too much significance should be drawn from small changes.

⁽²⁾ Includes commercial, public administration, agriculture and all fuels used for transport purposes.

⁽³⁾ Includes coal, coke, breeze and other manufactured solid fuel. Prior to 1996, an estimate of the value of coke produced in coke ovens owned by the iron and steel industry was included, this has now been replaced by an estimate of the value of coal purchased for such ovens, which is the actual monetary trade.

⁽⁴⁾ Includes town gas.

⁽⁵⁾ Includes heating oils, LPG etc. Excludes motor transport fuels.

⁽⁶⁾ Includes other fuels not listed eg coke oven gas, heat, biofuels etc. Heat data not available before 1999, and other fuels data not available before 1998.

£million

1.1.6 Expenditure on energy by final user, ⁽¹⁾ 1970 to 2012 (continued)

Other fin	al users	(2)					All final u	isers					
Coal and			Petroleum	Of which	Heat and		Coal and			Petroleum F	leat and		
	Natural		prod-	road	other	Total	solid	Natural		prod-	other	Total	
		Electricity	•	transport	fuels (6)		fuels (3)	gas (4) E	Electricity	•	fuels (6)		
60	70	390	1,910	1,720		2,430	740	525	1,510	2,295		5,070	1970
45	80	435	2,105	1,885		2,665	715	595	1,695	2,545		5,550	1971
45	80	480	2,305	2,070		2,910	685	705	1,850	2,760		6,000	1972
45	90	515	2,580	2,305		3,230	735	775	1,995	3,110		6,615	1973
60	105	590	3,885	3,150		4,640	875	905	2,435	4,965		9,180	1974
70	140	835	4,685	3,845		5,730	1,055	1,140	3,345	5,840		11,380	1975
90	200	1,030	5,305	4,325		6,625	1,310	1,580	4,115	6,665		13,670	1976
115	255	1,200	6,030	4,835		7,600	1,490	1,995	4,805	7,695		15,985	1977
115	310	1,375	6,075	4,890		7,875	1,535	2,370	5,425	7,700		17,030	1978
130	385	1,655	8,265	6,660		10,435	1,910	2,780	6,255	10,310		21,255	1979
115	520	1,985	10,735	8,650		13,355	1,710	3,455	7,480	13,060		25,705	1980
110	585	2,460	12,345	10,060		15,500	1,920	4,260	8,785	14,795		29,760	1981
135	655	2,690	13,470	10,950		16,950	1,990	5,060	9,450	15,950		32,450	1982
135	745	2,855	14,965	12,240		18,700	2,050	5,640	9,810	17,410		34,910	1983
135	795	2,980	16,140	13,250		20,050	1,810	6,005	10,170	18,590		36,575	1984
155	920	3,265	17,640	14,615		21,980	2,265	6,745	10,855	20,045		39,910	1985
140	1,045	3,485	15,845	13,745		20,515	2,275	6,780	11,355	17,370		37,780	1986
125	1,035	3,490	16,630	14,525		21,280	1,980	6,870	11,915	17,905		38,670	1987
95	1,025	3,810	16,855	14,960		21,785	1,805	6,635	12,740	18,005		39,185	1988
95	1,015	4,185	18,755	16,690		24,050	1,730	6,680	13,950	19,980		42,340	1989
105	1,085	4,465	21,120	19,020		26,775	1,735	7,210	14,705	22,505		46,155	1990
85	1,310	4,960	21,900	19,995		28,255	1,790	8,200	16,185	23,265		49,440	1991
95	1,245	5,495	22,455	20,825		29,290	1,580	7,900	17,135	23,705		50,320	1992
70	1,155	5,555	24,365	22,540		31,145	1,590	7,775	17,115	25,725		52,205	1993
50	1,125	5,380	25,190	23,515		31,745	1,385	8,155	17,140	26,510		53,190	1994
35	1,110	5,300	25,895	24,140		32,340	1,255	8,135	17,330	27,195		53,915	1995
30	975	5,405	28,240	26,145		34,650	1,260	8,240	17,685	29,835		57,020	1996
35	855	5,420	30,645	28,685		36,955	1,165	7,850	17,010	32,095		58,120	1997
25	885	5,200	31,375	29,810	-	37,485	1,095	7,885	16,335	32,555	70	57,940	1998
10	780	4,990	38,435	36,680	235	44,450	980	7,355	16,330	39,640	490	64,795	1999
5	850	4,950	38,860	35,635	235	44,900	890	7,445	15,860	40,740	485	65,425	2000
5	1,110	4,330	37,195	34,320	225	42,865	985	8,310	15,020	39,145	445	63,905	2001
-	1,025	4,050	36,355	34,020	140	41,570	830	8,395	14,550	38,065	440	62,285	2002
5	1,120	3,830	38,160	35,055	125	43,240	695	8,720	14,415	40,135	375	64,345	2003
5	1,320	4,355	46,560	42,975	70	52,310	815	11,085	16,730	48,850	195	77,680	2004
5r	1,755r	5,405	49,530r	44,620r		56,895r	1,025r	12,145r	20,135	52,345r	475r	86,125r	2005
-	2,165r	6,715r	53,040r	47,150r		62,295r	1,185r	14,955r	24,835	56,355r	740r	98,070r	2006
-	2,040r	7,050r	54,625r	48,810r		64,320r	1,110r	14,020r	26,565	57,930r		100,625r	2007
-	2,400r	9,215r	63,580r	54,665r		76,605r	1,725r	17,395r	30,690r	67,875r		119,585r	2008
-	2,340r	10,020	56,075r	50,630	1,580r	70,015r	1,690r	17,175r	31,330	59,275r	2,025r	111,495r	2009
5	2,220r	9,750	66,795r	59,645	2,180r	80,950r	1,695	18,550r	30,165	70,875r		124,165r	2010
10	2,285r	9,770	76,750r	67,525r		91,160r	1,880r	17,085r	30,795r	81,010r		133,850r	2011
5	2,625	10,440	74,775	65,835	2,135	89,980	1,595	20,705	32,765	79,195	2,890	137,150	2012

1.1.7 Mean air temperatures (deviations) (1)(2) 2000 to 2012 Great Britain

	Average													
	1981-2010 (4)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Calendar year	9.9	+0.5	+0.2	+0.8	+0.7	+0.6	+0.6	+0.8	+0.6	+0.0	+0.2	-1.0	+0.8	-0.2
First half year	8.3	+0.7	-0.2	+1.1	+0.9	+0.8	+0.7	+0.0	+1.4	+0.5	+0.2	-0.7	+0.9	+0.2
Second half year	11.6	+0.3	+0.6	+0.5	+0.5	+0.5	+0.5	+1.6	-0.2	-0.5	+0.1	-1.2	+0.7	-0.5
First quarter	5.2	+1.2	-0.5	+1.7	+0.5	+0.7	+0.8	-0.7	+1.5	+0.7	-0.4	-1.8	+0.4	+0.9
Second quarter	11.3	+0.2	+0.1	+0.6	+1.3	+1.0	+0.5	+0.7	+1.3	+0.4	+0.8	+0.3	+1.3	-0.5
Third quarter	15.6	+0.4	+0.3	+0.2	+1.1	+0.4	+0.3	+1.7	-0.7	-0.2	+0.1	-0.1	-0.3	-0.5
Fourth quarter	7.5	+0.3	+1.0	+0.8	-0.1	+0.6	+0.6	+1.6	+0.3	-0.7	+0.1	-2.4	+1.7	-0.5
Summer (3)	13.4	+0.3	+0.2	+0.4	+1.2	+0.7	+0.4	+1.2	+0.3	+0.1	+0.5	+0.1	+0.5	-0.5
Winter (3)	6.4	-0.1	+1.4	+0.7	+0.3	+0.7	-0.1	+1.5	+0.5	-0.5	-0.8	-1.0	+1.3	-1.2
January	4.6	+0.9	-0.7	+1.5	+0.3	+0.9	+1.8	-0.1	+2.3	+1.8	-1.3	-3.1	-0.7	+0.9
February	4.6	+1.8	+0.2	+2.6	-0.2	+0.9	-0.1	-0.5	+1.4	+0.7	-0.3	-1.9	+1.7	-0.3
March	6.5	+1.1	-1.0	+1.2	+1.3	+0.2	+0.8	-1.5	+0.6	-0.4	+0.5	-0.4	+0.3	+2.0
April	8.4	-0.5	-0.6	+1.0	+1.5	+1.2	+0.4	+0.1	+2.8	-0.5	+1.3	+0.5	+3.3	-1.1
May	11.4	+0.6	+1.0	+0.5	+0.7	+0.7	-0.2	+0.4	+0.5	+1.6	+0.5	-0.6	+0.8	+0.2
June	14.1	+0.6	-0.1	+0.2	+1.8	+1.2	+1.3	+1.7	+0.8	-0.1	+0.7	+1.2	-0.1	-0.5
July	16.4	-1.2	+0.3	-0.5	+1.0	-0.7	+0.2	+2.8	-1.2	-0.2	-0.3	+0.6	-1.1	-1.0
August	16.2	+0.5	+0.5	+0.7	+1.8	+1.1	-0.1	-0.1	-0.7	-0.0	+0.3	-0.9	-0.8	+0.4
September	14.0	+1.9	+0.1	+0.5	+0.4	+0.8	+1.0	+2.4	-0.1	-0.5	+0.2	-0.0	+1.1	-0.8
October	10.6	-0.1	+3.0	-0.3	-1.6	-0.0	+2.4	+2.2	+0.4	-0.8	+0.9	-0.2	+1.8	-1.1
November	7.3	-0.1	+0.7	+1.5	+1.1	+0.7	-0.9	+0.8	+0.3	-0.3	+1.2	-1.9	+2.3	-0.6
December	4.7	+1.1	-0.6	+1.2	+0.3	+1.0	+0.1	+1.6	+0.3	-1.0	-1.7	-5.0	+1.2	+0.1

⁽¹⁾ Latest monthly figures available at:

https://www.gov.uk/government/statistical-data-sets/december-2012-energy-trends-weather-data

⁽²⁾ Average mean air temperatures calculated from the maximum and minimum daily temperature as recorded at 17 meteorological stations, selected as representative of fuel consumption in Great Britain, 2 in Scotland, 2 in Wales and 13 in England, 4 of which are counted twice. Data on temperatures recorded are provided by the Meteorological Office.

⁽³⁾ The summer period is from April to September inclusive, and the winter period is the six months beginning in October and ending with March of the following year.

⁽⁴⁾ Long term mean changed from 1971-2000 to 1981-2010 with effect from June 2013; see article in the March 2013 edition of Energy Trends at:

1.1.8 Mean heating degree days $^{(1)(2)(3)}$, 2002 to 2012, Great Britain

	January	February	March	April	May	June	July	August	September	October	November	December	Total heating degrees days temperature	Year
Long-term mean (1981-2010)	10.9	10.9	9.0	7.1	4.2	2.0	0.7	0.8	2.1	5.0	8.3	10.8	2,175.8	6.0
2002	9.5	8.3	7.8	6.1	3.6	1.4	0.6	0.1	1.2	5.2	6.7	9.5	1,823.3	5.0
2003	10.6	11.1	7.7	5.6	3.6	0.3	0.0	0.3	1.5	6.1	7.1	10.5	1,948.8	5.3
2004	10.0	9.9	8.9	5.9	3.4	1.0	0.7	0.2	1.2	4.9	7.5	9.8	1,931.9	5.3
2005	9.1	11.0	8.2	6.7	4.3	1.3	0.3	0.3	1.2	2.6	9.1	10.7	1,953.8	5.4
2006	11.0	11.3	10.5	7.0	3.7	0.6	0.0	0.3	0.3	2.7	7.4	9.1	1,932.3	5.3
2007	8.6	9.5	8.4	4.3	3.7	0.9	0.5	0.5	2.1	4.5	8.0	10.5	1,860.3	5.1
2008	9.1	10.1	9.4	7.6	2.6	1.6	0.5	0.2	2.0	5.8	8.5	11.8	2,101.8	5.7
2009	12.2	11.1	8.6	5.8	3.6	1.6	0.2	0.2	1.5	4.0	7.1	12.4	2,067.2	5.7
2010	14.0	12.7	9.4	6.6	4.9	1.0	0.1	0.7	1.8	5.1	10.1	15.8	2,489.0	6.8
2011	11.6	9.2	8.7	3.8	3.3	1.9	0.5	0.8	1.0	3.4	6.0	9.6	1,815.3	5.0
2012	10.0	11.1	7.0	8.2	4.2	2.1	0.8	0.3	2.6	6.0	8.8	10.7	2,185.1	6.0
2013	11.6	12.1	12.5	8.1	4.9	1.7								

⁽¹⁾ Latest monthly figures available at

https://www.gov.uk/government/statistical-data-sets/december-2012-energy-trends-weather-data

⁽²⁾ Degree days calculated from the maximum and minimum daily temperature as recorded at 17 meteorologica stations, selected as representative of fuel consumption in Great Britain with 2 in Scotland, 2 in Wales and 13 in England, 4 of which are counted twice. Data on temperatures recorded are provided by the Meteorological Office.

⁽³⁾ Long term mean changed from 1971-2000 to 1981-2010 with effect from June 2013; see article in the March 2013 edition of Energy Trends at: https://www.gov.uk/government/organisations/department-of-energy-climate-change/series/energy-trends

1.1.9 Mean air temperatures (averages) $^{(1)(2)(3)}$, 1970 to 2012 Great Britain

			_		•		-					Degrees	Celsius
	January	February	March	April	May	June	July	August	September	October	November	December	Year
1970	4.0	3.2	4.0	6.8	12.7	16.1	15.4	16.1	14.5	10.9	7.9	4.5	9.7
1971	4.7	5.0	5.4	7.8	11.5	12.5	16.9	15.6	14.3	11.6	6.4	7.1	9.9
1972	4.2	4.6	6.5	8.6	10.6	11.9	15.5	15.2	11.9	10.7	6.4	5.8	9.3
1973	4.7	4.7	6.5	7.2	11.3	14.9	15.7	16.5	14.3	9.4	6.2	5.1	9.7
1974	6.1	5.8	5.8	8.0	10.9	13.7	15.1	15.2	12.1	7.9	6.7	8.0	9.6
1975	6.7	4.7	5.0	8.3	9.7	14.5	17.2	18.2	13.4	10.2	6.3	5.3	10.0
1976	5.9	4.8	5.0	8.0	11.8	16.7	18.3	17.3	13.4	10.7	6.2	2.2	10.0
1977	3.0	5.1	7.0	7.3	10.4	12.4	15.9	15.3	13.1	11.7	6.4	6.2	9.5
1978	3.4	3.6	6.8	6.4	11.3	13.6	14.7	14.9	14.0	11.9	8.6	4.3	9.5
1979	0.5	1.4	4.8	7.6	9.7	14.1	16.2	14.9	13.2	11.2	7.0	5.5	8.9
1980	2.4	6.0	4.9	8.7	11.0	13.8	14.5	15.7	14.6	9.0	6.6	5.8	9.4
1981	4.8	3.3	6.6	7.8	10.5	13.3	15.6	16.2	14.6	7.6	7.7	0.8	9.1
1982	2.8	4.8	5.8	8.2	11.1	11.2	16.2	15.4	13.8	9.8	7.4	4.1	9.2
1983	6.2	1.9	6.1	6.3	9.6	13.6	18.4	16.8	13.2	10.0	7.3	5.5	9.6
1984	3.3	3.5	4.5	7.7	9.5	13.9	16.2	17.0	13.2	10.7	7.7	5.0	9.4
1985	1.0	2.5	4.4	8.0	10.4	12.2	15.6	14.2	14.1	10.7	4.0	6.1	8.6
1986	3.2	-0.5	4.9	5.4	10.6	14.1	15.4	13.2	11.0	10.6	7.3	5.8	8.5
1987	1.1	3.7	4.1	9.4	9.7	12.2	15.5	15.2	13.3	9.3	6.4	4.7	8.7
1988	4.9	4.5	5.8	7.8	11.2	14.0	14.4	14.9	13.2	9.4	5.3	7.1	9.4
1989	6.1	5.8	7.0	6.1	12.5	14.0	17.4	16.1	14.1	11.5	6.4	4.5	10.2
1990	6.3	7.0	8.0	7.7	12.1	13.3	16.3	17.6	13.1	12.0	7.2	5.1	10.5
1991	3.7	2.4	7.8	8.0	11.0	12.2	17.1	17.0	14.7	10.3	7.0	5.0	9.7
1992	4.0	5.9	7.4	8.6	13.1	15.5	16.1	15.3	13.2	7.8	7.5	4.1	9.9
1993	6.0	5.4	6.6	9.3	11.2	14.4	15.1	14.4	12.5	8.5	5.0	5.3	9.5
1994	5.2	3.5	7.6	8.1	10.4	14.3	17.6	15.9	12.7	10.2	10.1	6.4	10.2
1995	4.9	6.7	5.6	8.9	11.6	14.0	18.4	18.9	13.8	13.2	8.1	2.8	10.6
1996	4.8	3.1	4.6	8.7	9.3	14.4	16.4	16.7	13.7	11.8	6.2	3.5	9.4
1997	2.9	6.9	8.4	9.1	11.5	14.0	16.9	18.6	14.5	10.5	8.9	6.1	10.7
1998	5.5	7.7	8.0	7.8	12.9	14.1	15.5	15.9	14.8	10.6	7.3	5.9	10.5
1999	5.8	5.6	7.4	9.4	12.8	13.7	17.5	16.3	15.7	11.0	8.1	5.0	10.7
2000	5.5	6.4	7.5	7.9	12.1	14.7	15.2	16.7	15.9	10.5	7.1	5.8	10.5
2001	3.9	4.8	5.5	7.8	12.4	14.0	16.7	16.7	14.1	13.6	7.9	4.1	10.2
2002	6.1	7.2	7.6	9.4	11.9	14.3	15.9	17.0	14.5	10.3	8.8	6.0	10.8
2003	4.9	4.5	7.8	9.9	12.1	15.9	17.5	18.0	14.3	9.0	8.4	5.0	10.6
2004	5.5	5.6	6.6	9.6	12.1	15.3	15.7	17.4	14.8	10.6	8.0	5.7	10.6
2005	6.4	4.5	7.2	8.8	11.2	15.4	16.6	16.1	15.0	13.0	6.4	4.8	10.5
2006	4.5	4.2	5.0	8.5	11.8	15.8	19.3	16.2	16.4	12.8	8.1	6.4	10.8
2007	6.9	6.0	7.1	11.2	11.9	14.9	15.2	15.5	13.9	11.0	7.5	5.0	10.5
2008	6.4	5.4	6.1	7.9	13.0	14.0	16.3	16.2	13.5	9.8	7.0	3.7	10.0
2009	3.3	4.4	6.9	9.7	11.9	14.8	16.2	16.6	14.2	11.5	8.4	3.1	10.1
2010	1.5	2.8	6.1	8.9	10.8	15.3	17.0	15.3	14.0	10.4	5.4	-0.3	9.0
2011	3.9	6.3	6.8	11.7	12.3	14.0	15.3	15.4	15.1	12.4	9.5	5.9	10.7
2012	5.5	4.4	8.5	7.3	11.6	13.6	15.4	16.6	13.2	9.5	6.7	4.8	9.8
2013	3.9	3.4	3.0	7.4	10.6	13.9							

⁽¹⁾ Latest monthly figures available at

https://www.gov.uk/government/statistical-data-sets/december-2012-energy-trends-weather-data

⁽²⁾ Average mean air temperatures calculated from the maximum and minimum daily temperature as recorded at 17 meteorological stations, selected as representative of fuel consumption in Great Britain, 2 in Scotland, 2 in Wales and 13 in England, 4 of which are counted twice. Data on temperatures recorded are provided by the Meteorological Office.

⁽³⁾ Long term mean changed from 1971-2000 to 1981-2010 with effect from June 2013; see article in the March 2013 edition of Energy Trends at: https://www.gov.uk/government/organisations/department-of-energy-climate-change/series/energy-trends

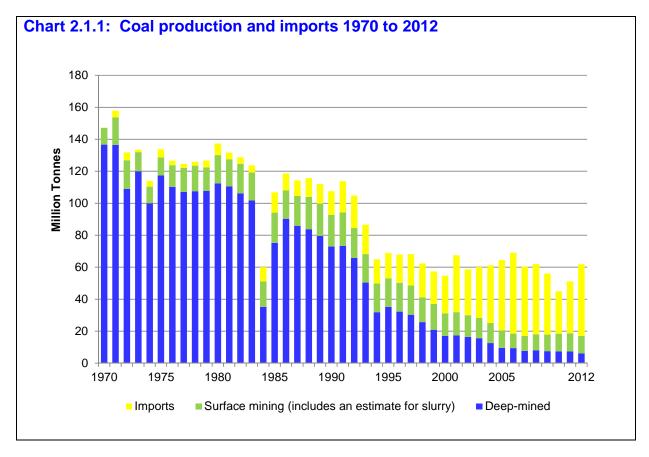
Chapter 2: Long term trends

Solid fuels and derived gases

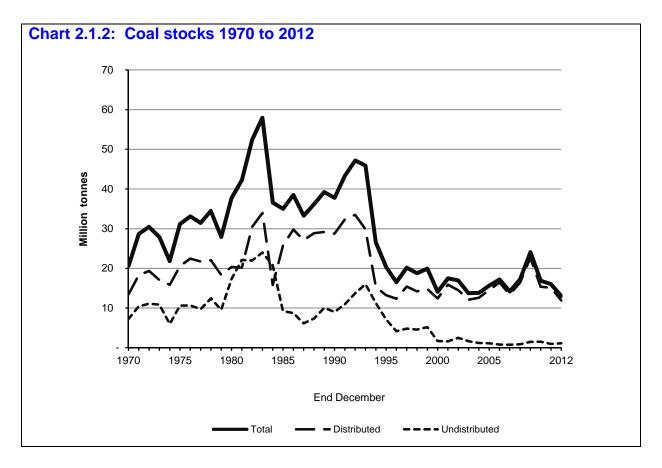
Coal production, trade and stocks (Table 2.1.1)

2.1.1 Figures for coal production, imports, overseas shipments and stocks are given in Table 2.1.1, which is based on Table 2.4 of Chapter 2 of the main Digest. The table series extends back to 1970.

2.1.2 Table 2.1.1 shows a decline in deep-mined production of 95 per cent since the highest level shown in this table in 1970 (131 million tonnes). Production plummeted in 1984 as a result of the miners' strike before recovering fairly quickly to levels recorded pre-1984, and fell again in the early 1990's. Surface mine production (including an estimate for slurry) in 2012 was around the same as the levels shown in 2005 (11 million tonnes). Since 1970, UK coal imports have grown steadily. This growth increased more rapidly over a short period of time in the early 2000s. This meant in 2001 UK imports (36 million tonnes) exceeded UK production (32 million tonnes) for the first time. This rapid growth in imports continued and in 2006 imports reached a new record of 51 million tonnes. Since then, levels have declined. However, in 2012 UK imports were 45 million tonnes, an increase of 38 per cent on 2011 (33 million tonnes) but a decrease of 11 per cent on the 2006 record. These trends are illustrated in Chart 2.1.1.

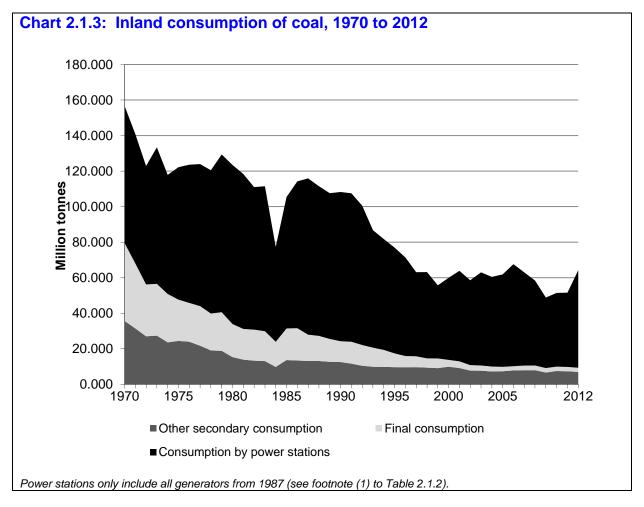


2.1.3 Total coal stocks were around 20 million tonnes in 1970. Since then distributed stocks increased substantially (mainly due to growth at electricity generators) and in 1983, total stocks, reached a record high of 58 million tonnes, of which 59 per cent was distributed. Thereafter, although there have been year-on-year fluctuations, stock levels have declined back to under 20 million tonnes a year, with the exception of 2009, where total stocks were 24 million tonnes (Chart 2.3), the highest since 1994 (27 million tonnes). Total stocks at the end of 2012 (13 million tonnes) were around a fifth of the year's total coal consumption and 3 million tonnes less than total stocks held at the end of 2011. Trends in coal stocks are shown in Chart 2.1.2.



Inland consumption of solid fuels (Table 2.1.2)

- 2.1.4 Figures for inland consumption of coal by fuel producers and final users are given in Table 2.1.2, which are based on Table 2.4 of Chapter 2 of the main Digest. The table also shows final consumption figures for coke and breeze, and other solid fuels based on Table 2.5 of Chapter 2. These products are mainly supplied from the conversion of coal, supplemented by a small amount of foreign trade. Where possible the series have been extended back to 1970.
- 2.1.5 Trends in inland consumption of coal, in total and by power stations, coke ovens and final consumers, are illustrated in Chart 2.1.3 below.
- 2.1.6 Total inland consumption of coal fell by 59 per cent from 157 million tonnes in 1970 to 64 million tonnes in 2012. Consumption by the electricity generators increased from 77 million tonnes in 1970 to a peak of 90 million tonnes in 1980 and continued in the 80-90 million tonnes range until 1991, with the exception of the miners' strike years. Coal consumed by generators fell steadily after 1991 until 1999, as the UK's energy mix became more diverse, environmental regulations and high coal prices made natural gas more attractive to purchase for generation use. In 2012, coal use by generators increased by 31 per cent from 2011 and stood at 55 million tonnes and accounted for 86 per cent of total consumption compared with only 49 per cent in 1970.



2.1.7 A more detailed examination of historical coal statistics was published in the September 2001 issue of Energy Trends. This looked at trends in coal production, consumption and employment in the coal mining industry over the last 150 years. The updated data set on which the article is based is available on the Department of Energy and Climate Change (DECC) website at:

www.gov.uk/government/organisations/department-of-energy-climate-change/series/coal-statistics,

and the original article is available on request from DECC.

Additionally, an article on coal statistics trends spanning the last 60 years were published in a special 60th anniversary edition of the Digest of United Kingdom Energy Statistics. This publication is also available on the DECC website at:

www.gov.uk/government/organisations/department-of-energy-climate-change/series/digest-of-uk-energy-statistics-dukes

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2.1.1 Coal production and stocks (1)

Thousand tonnes

		Coal production	on			Coal sto	ocks (at year e	(at year end) (5)		
	T-1-1	Danie salas d	Surface mining		_					
	Total	Deep-mined	(2,3)	Imports (4)	Exports	Total	Distributed	Undistributed		
1970	147,195	136,686	10,509	79	3,191	20,630	13,414	7,216		
1971	153,683	136,478	17,205	4,241	2,667	28,664	18,271	10,393		
1972	126,834	109,086	17,748	4,998	1,796	30,460	19,351	11,110		
1973	131,984	120,030	11,954	1,675	2,693	27,886	17,035	10,850		
1974	110,452	99,993	10,459	3,547	1,865	21,807	15,827	5,979		
1975	128,683	117,412	11,271	5,083	2,182	31,159	20,541	10,618		
1976	123,801	110,265	13,536	2,837	1,436	33,115	22,457	10,658		
1977	122,150	107,123	15,027	2,439	1,835	31,444	21,704	9,740		
1978	123,577	107,528	16,049	2,352	2,253	34,475	22,038	12,437		
1979	122,369	107,775	14,594	4,375	2,175	27,908	18,339	9,569		
1980	130,097	112,430	17,667	7,334	3,809	37,687	20,370	17,317		
1981	127,469	110,473	16,996	4,290	9,113	42,253	20,136	22,117		
1982	124,711	106,161	18,550	4,063	7,447	52,377	30,422	21,955		
1983	119,254	101,742	17,512	4,456	6,561	57,960	33,964	23,996		
1984	51,182	35,243	15,939	8,894	2,293	36,548	15,794	20,753		
1985	94,111	75,289	18,822	12,732	2,432	34,979	25,752	9,228		
1986	108,099	90,366	17,733	10,554	2,677	38,481	29,776	8,704		
1987	104,533	85,957	18,576	9,781	2,353	33,246	27,104	6,142		
1988	104,066	83,762	20,304	11,685	1,822	36,166	28,834	7,332		
1989	99,820	79,628	20,192	12,137	2,049	39,244	29,191	10,053		
1990	92,762	72,899	19,863	14,783	2,307	37,760	28,747	9,013		
1991	94,202	73,357	20,845	19,611	1,824	43,321	32,343	10,977		
1992	84,493	65,800	18,693	20,339	973	47,207	33,493	13,714		
1993	68,199	50,457	17,742	18,400	1,114	45,860	29,872	15,989		
1994	49,785	31,854	17,931	15,088	1,236	26,572	15,301	11,271		
1995	53,037	35,150	17,887	15,896	859	20,330	13,226	7,104		
1996	50,197	32,223	17,974	17,799	988	16,505	12,352	4,153		
1997	48,495	30,281	18,214	19,757	1,146	20,188	15,385	4,803		
1998	41,177	25,731	15,446	21,244	971	18,767	14,202	4,565		
1999	37,077	20,888	16,189	20,293	761	19,931	14,774	5,157		
2000	31,198	17,188	14,010	23,446	660	14,077	12,431	1,646		
2001	31,930	17,347	14,583	35,542	550	17,468	15,885	1,583		
2002	29,989	16,391	13,598	28,686	537	16,968	14,486	2,482		
2003	28,279	15,633	12,646	31,891	543	13,731	12,107	1,624		
2004	25,096	12,542	12,554	36,153	622	13,791	12,598	1,192		
2005	20,498	9,563	10,935	43,968	536	15,628	14,527	1,101		
2006	18,517	9,444	9,073	50,528	443	17,210	16,427	783		
2007	17,007	7,674	9,333	43,364	544	14,155	13,420	734		
2008	18,053	8,096	9,958	43,875	599	17,246	16,392	854		
2009	17,874	7,520	10,354	38,167	646	24,090	22,640	1,450		
2010	18,417	7,390	11,026	26,541	715	16,883	15,366	1,517		
2011	18,627	7,312	11,315	32,527	491	16,039	15,113	926		
2012	17,047	6,153	10,894	44,815	488	13,016	11,896	1,120		

^{(1) 2008} is 4 days longer than the standard 52 week statistical reporting period (SRP) for January to December 2008. This is to enable a smooth transition to publishing data on a calendar month basis from January 2009 rather than 4 and 5 week SRPs used for previous years.

⁽²⁾ Includes estimates for slurry etc recovered from dumps, ponds, rivers etc.

⁽³⁾ The term 'surface mining' has now replaced opencast production. Opencast production is a surface mining technique.

⁽⁴⁾ The 1993 import figure includes an additional estimate for unrecorded trade.

⁽⁵⁾ Excludes distributed stocks held in merchants' yards, etc, mainly for the domestic market and stocks held by the industrial sector.

2.1.2 Inland consumption of solid fuels (4)

Thousand tonnes

Coal consumption by fuel producers Final consumption								usanu i					
		Primary			econdary				Coa	l (1)			
_				Coke	0.1							Coke	Other
	tal inland			ovens and	Other	0						and	solid
con	sumption	Calliarias	Power		solid fuel	Gas	Total	In du otm	Domostio	Othor	Total	breeze	fuel
	of coal	Collieries	stations (1)	rumaces	plants (3)	works	Total	industry	Domestic	Other	Total	(2)	(3)
1970	156,885	1,916	77,237	25,340	4,150	4,280	111,007	19,613	20,190	4,159	43,962	18,090	3,203
1971	140,931	1,581	72,847	23,554	4,477	1,855	102,733	16,105	17,185	3,327	36,617	15,100	3,456
1972	122,883	1,405	66,664	20,476	4,547	575	92,262	11,663	14,554	2,999	29,216	14,090	3,514
1973	133,371	1,381	76,838	21,888	3,607	512	102,845	12,062	14,502	2,581	29,145	15,000	3,375
1974	117,887	1,256	67,026	18,461	3,788	107	89,382	11,077	13,667	2,505	27,249	13,220	3,184
1975	122,213	1,238	74,569	19,085	4,063	9	97,726	9,685	11,616	1,948	23,249	11,640	2,919
1976	123,604	1,132	77,819	19,402	3,405	8	100,634	8,970	10,823	2,045	21,838	12,460	2,647
1977	123,977	1,124	79,956	17,406	3,173	-	100,535	9,033	11,136	2,149	22,318	11,310	2,609
1978	120,477	1,010	80,643	14,946	3,070	_	98,659	8,550	10,217	2,041	20,808	10,484	2,453
1979	129,379	834	88,790	15,081	2,883	_	106,754	9,232	10,508	2,051	21,791	11,361	2,364
	,		,	,	_,		,	-,	,	_,	,	,	_,
1980	123,460	663	89,569	11,610	3,022	-	104,201	7,898	8,946	1,752	18,596	6,221	2,252
1981	118,386	616	87,226	10,805	2,458	-	100,489	7,046	8,454	1,781	17,281	7,952	1,975
1982	110,998	534	80,228	10,406	2,326	-	92,960	7,175	8,474	1,855	17,504	7,248	1,921
1983	111,475	486	81,565	10,448	2,114	-	94,127	7,218	7,872	1,772	16,862	7,600	1,889
1984	77,309	209	53,411	8,246	1,300	-	62,957	7,006	5,406	1,731	14,143	7,653	1,186
1985	105,386	332	73,940	11,122	2,176	-	87,238	8,313	7,799	1,704	17,816	8,230	1,658
1986	114,234	306	82,652	11,122	1,959	-	95,733	9,278	7,421	1,496	18,195	7,558	1,601
1987	115,894	235	87,960	10,859	2,052	-	100,871	6,827	6,536	1,425	14,788	8,233	1,652
1988	111,499	196	84,258	10,902	2,006	-	97,166	7,131	5,741	1,265	14,137	8,591	1,443
1989	107,581	146	82,053	10,792	1,717	-	94,562	6,763	5,048	1,062	12,873	8,159	1,253
1990	108,257	117	84,014	10,852	1,544	-	96,410	6,280	4,239	1,211	11,730	7,637	1,214
1991	107,514	112	83,542	10,011	1,501	-	95,054	6,426	4,778	1,144	12,348	7,136	1,200
1992	100,580	79	78,469	9,031	1,319	-	88,819	6,581	4,156	945	11,682	6,887	1,089
1993	86,756	48	66,136	8,479	1,329	-	75,944	5,300	4,638	826	10,764	6,638	1,138
1994	81,767	22	62,406	8,581	1,190	-	72,177	4,946	3,901	721	9,568	6,578	949
1995	76,942	8	59,588	8,657	982	-	69,227	4,494	2,690	523	7,707	6,541	742
1996	71,400	8	55,511	8,632	946	-	65,089	3,075	2,705	524	6,303	6,925	835
1997	63,080	8	47,333	8,750	864	-	56,947	2,993	2,587	545	6,125	6,784	616
1998	63,152	5	48,588	8,728	635	-	57,951	2,414	2,366	416	5,196	6,545	630
1999	55,724	10	41,178	8,413	646	-	50,237	2,040	2,517	920	5,477	6,705	572
2000	59,931	12	46,197	8,685	1,195	-	56,078	1,876	1,883	82	3,841	6,283	521
2001	63,850	10	50,931	7,895	1,246	-	60,072	1,826	1,874	68	3,768	5,394	483
2002	58,554	9	47,741	6,533	1,153	-	55,427	1,810	1,286	22	3,118	4,715	414
2003	63,023	6	52,463	6,611	1,019	-	60,093	1,856	1,043	25	2,923	5,337	358
2004	60,450	8	50,444	6,382	801	-	57,626	1,848	941	27	2,816	5,146	316
2005	61,852	6	52,058	6,609	725	-	59,392	1,781	614	59	2,455	5,003	256
2006	67,594	4	57,438	7,049	733	-	65,220	1,756	561	54	2,370	5,263	257
2007	63,029	5	52,511	7,174	750	-	60,434	1,896	648	45	2,590	5,183	235
2008	58,385	5	47,808	7,045	855	-	55,707	1,940	683	49	2,672	5,104	294
2009	48,821	5	39,681	5,787	823	-	46,290	1,742	689	94	2,525	3,735	269
2010	51,455	5	41,498	6,632	828r	-	48,958r	1,716	718	58r	2,492	3,424	311
2011	51,591r	4r	41,850r	6,393r	893r	-	49,135r	1,682r	716r	54r	2,452r	3,084	270
2012	64,206	4	54,906	6,066	914	-	61,886	1,602	674	40	2,317	3,500	253

⁽¹⁾ Up to 1986 power stations include those in the public electricity supply, railways and transport industries. Consumption by other generators is included in final coal consumption. From 1987, coal consumption at power stations also includes other generators' consumption, which is therefore excluded from final coal consumption (see also Table 2.4). From 1999 includes coal consumption for heat sold to third parties.

⁽²⁾ This series comprises final consumption and consumption at blast furnaces which can now be separated following production of energy balances in Tables 2.5 and 2.6 of the main Digest.

⁽³⁾ Low temperature carbonisation and patent fuel plants and their products.

^{(4) 2008} is 4 days longer than the standard 52 week statistical reporting period (SRP) for January to December 2008. This is to enable a smooth transition to publishing data on a calendar month basis from January 2009 rather than 4 and 5 week SRPs used for previous years.

Chapter 3: Long term trends

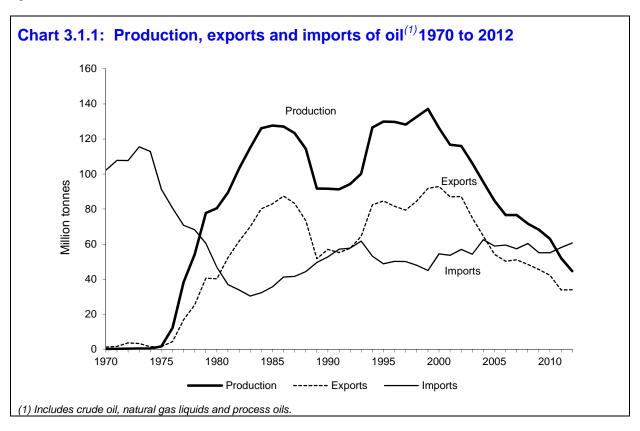
Petroleum

3.1.1 Tables 3.1.1 and 3.1.2 present extended time series of selected, more aggregated data, from the tables in Chapter 3 of the main Digest. They give additional background on the historic development of the crude oil and petroleum sectors.

Crude oil and petroleum products: production, imports and exports (Table 3.1.1)

3.1.2 The left-hand side of Table 3.1.1 shows data from 1970 to 2012 for production, imports and exports of crude oil (including natural gas liquids and feedstocks) and oil products. This part of the table also shows United Kingdom refinery throughput of crude oil, and the inland deliveries of oil products. Indigenous production of crude oil is shown in total with landward production shown separately.

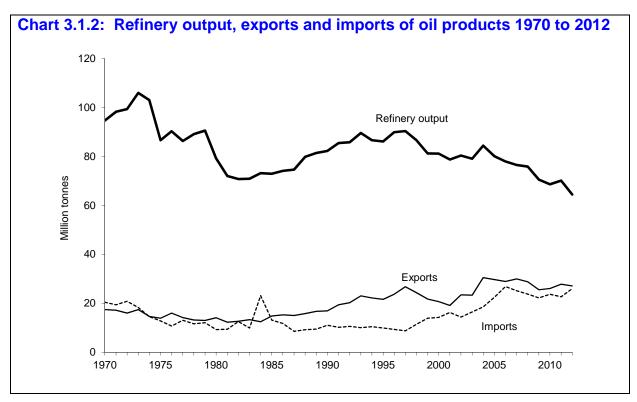
3.1.3 The first three columns of the right-hand side of Table 3.1.1 consist of time series showing net exports of crude oil and products. It should be noted that exports of crude oil include some imports that have been re-exported. In years of significant indigenous production these have little effect on exports as a proportion of indigenous production, but in the earlier years (approximately pre-1975) the re-exports exceeded indigenous production and thus the ratio of exports to indigenous production was greater than one.



3.1.4 Chart 3.1.1 illustrates the trends in the production, exports and imports of crude oil. It shows that indigenous production of crude oil was negligible up to 1974 and then increased rapidly as North Sea production came on stream. Imports peaked in 1973, immediately prior to the first OPEC price 'hike'. The chart shows the rapid decline of net imports thereafter as indigenous production rose, until 1981 when the surplus turned from net imports to net exports. Net exports first peaked in 1986, one year after the first peak for North Sea production in 1985.

- 3.1.5 The large fall in production in 1988 and particularly 1989 reflects the effects of the Piper Alpha disaster and subsequent incidents, and the continued 'low' production in 1990 and 1991 reflects the consequent safety work. Production has been declining since the peak production of 137 million tonnes in 1999. Production of crude oil and Natural Gas Liquids from the UK's North Sea fields decreased by around 14 per cent between 2011 and 2012. Production is at just under a third of the UK's peak production recorded in 1999. This was largest decrease since large scale oil extraction began. More information on the reasons behind this reduction can be found in Annex F, paragraph F.8.
- 3.1.6 Table 3.1.1 also shows that the import share of refinery throughput of crude oil fell from nearly 100 per cent, prior to North Sea oil production starting, to a low of 39 per cent in 1983 (the lowest year for imports), before rising to 64 per cent in 1993. Since then, indigenous production has increased significantly leading to the import share falling to 51 per cent in 1999, the year of record UK production of crude oil. The imports' share of refinery throughput was 88 per cent in 2012 due to the lower levels of production mentioned above. These developments are mirrored by the changes in the ratio of indigenous production to refinery throughput. Ignoring pre-1976 figures, the proportion of indigenous production exported increased from 35 per cent in 1976 to around two-thirds towards the end of the 1980s. Although the decreases in production in the late 1980s did lead to some reduction in the level of exports, the proportion of production exported continued at roughly this level during the 1990s. Since 2000, however, the proportion has risen to about two thirds.
- 3.1.7 Imports of crude oil in 1991 (and marginally again in 1992) exceeded exports for the first time since 1980. Net exports of crude oil resumed in 1993, and continued to rise until 1999. In 1999 net exports of crude oil were 47 million tonnes at their highest since 1984 with overall net exports of crude oil and oil products at a record level of almost 55 million tonnes. However, the decreased level of crude oil production since 1999 has seen net exports of crude oil falling over the last six years and the UK becoming a net-importer of primary oils in 2005 for the first time since 1992. In 2012, the UK was a net-importer of primary oils and a net-exporter of oil products, however, the extent of importing was on a large enough scale that overall, for both primary oils and oil products combined the UK was a net-importer.
- 3.1.8 Refinery throughput peaked in 1973 but subsequently fell to pre-1970 levels together with refinery output. (The difference between refinery throughput and output is refinery use of fuel and gains/losses). Since the low point of 1983 (throughput 77 million tonnes), both refinery throughput and output increased to a new peak in 1997. However, with the closure of the Gulf Oil refinery in late 1997, refinery output fell by 4 per cent in 1998 and then by another 6 per cent in 1999 to the lowest level seen since 1989. The remaining refineries in the UK worked to increase their capacity and utilisation rates and to a large extent offset the closures of the Gulf Oil and Shell Haven refineries. The fall in refinery output in 2001 is the result of the shutdowns mentioned above. In 2010 refinery output and throughput were both lower by 3 per cent than in 2009 and were the lowest since the 1960's. The principal driver for this reduction was the cessation of refinery operations at Petroplus Teesside in 2009. Citing prevailing economic circumstances, the Petroplus refinery was mothballed and converted to a storage site. In 2012, the UK's refineries produced almost 68.7 million tonnes, down 8 per cent on 2011 but down 20 per cent on 2000. The closure of the Coryton refinery in the summer of 2012 along with maintenance periods in other refineries contributed to the decrease in production.
- 3.1.9. In 1984 the UK was a net importer of oil products due to the increased demand for oil products as a result of the miners strike. Since 1984 the UK has been a net exporter of oil products with increases in exports during the 1990s leading to a record high in 1997. The increases in net exports of products in the 1990s reflect the increased throughput from refineries mainly feeding through to increased exports of oil products, rather than increases in deliveries to the domestic market. Net exports of products decreased in both 1998 and 1999, (following the closure of the Gulf Oil refinery from December 1997). The closure of the Shell Haven refinery was the main reason for the decline in net exports of products in 2000. The sharp fall in 2001 occurred due to a number of prolonged shutdowns and slowdowns at refineries in the first half of the year to allow upgrade work for the introduction of ultra low sulphur petrol. Exports of oil products increased from 1991 to 1993 (comfortably exceeding the earlier peak at the beginning of the 1970s), fell in 1994 and 1995 before climbing again to reach a new peak in 1997 at 26.8 million tonnes. Imports of oil products were at their highest in 1967 (24 million tonnes) and, apart from a 'blip' in 1984 as a result of the miners' strike.

were less than half this peak until 1999. As a result, 1984 apart, exports of oil products have exceeded imports in every year since 1974. In 2012, with the reduced refinery output due to the Coryton refinery closure imports made up 42 per cent of inland deliveries, a higher level than the last 40 years, including the 1984 miners strike. Chart 3.1.2 summarises the trend in refinery output, exports and imports of oil products over the period.



Inland deliveries of petroleum products (Table 3.1.2)

3.1.10 Table 3.1.2 shows data for deliveries of petroleum products from 1970 to 2012, split between non-energy uses in total and the major products delivered for energy use. While data for deliveries are considered to be a good proxy for consumption, differences can occur mainly due to stock changes along the chain of consumption. Total deliveries for energy use shown in the first (left-hand) half of the table and include 'own use' by refineries that are separately identified in the right-hand part of the table.

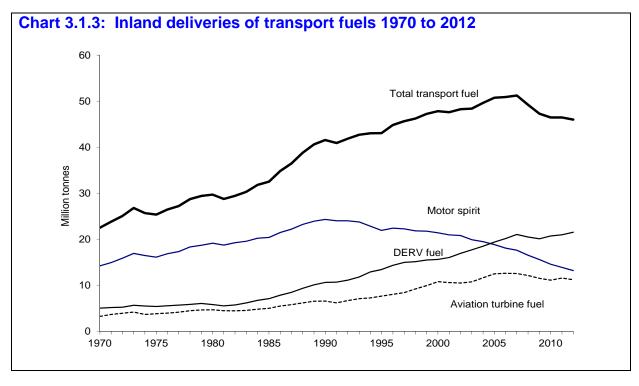
3.1.11 Deliveries of petroleum products peaked in 1973, in common with other aggregate oil figures (see Table 3.1.1). The 'blip' in 1984 reflects the increased deliveries (of fuel oil in particular) during the miners' strike. Fuel oil deliveries are now 6 per cent of their level in 1970 while gas oil deliveries (excluding DERV fuel) are half their 1970 level. In contrast, deliveries of aviation turbine fuel have more than tripled during the period. After limited growth during the 1970s and early 1980s, deliveries of DERV fuel resumed the high growth rates apparent in the 1960s, and have increased by over a quarter over the last 10 years. The upward surge of deliveries of transport fuels slowed in 1990 and ceased in 1991 with the twin impacts of the Gulf crisis and recession, with some recovery being seen in 1992.

3.1.12 Since 1992, motor spirit deliveries have generally declined each year. In 2010 deliveries of motor spirit were a third lower than in 2000. These changes reflect the switch to diesel-engine cars and are mirrored by the pattern of increases in deliveries of DERV fuel since 1990. Consumption of motor spirit is also lowered by a more efficient road fleet. In 2005, deliveries of DERV fuel exceeded motor spirit in mass terms for the first time, and in 2007 DERV deliveries surpassed motor spirit in terms of both mass and volume, which has continued into 2012. Deliveries of aviation turbine fuel also increased each year from 1992 to 2000. However deliveries of aviation turbine fuel fell in 2001 due to the terrorist attacks on the United States on 11th September 2001 that caused a downturn in the global aviation industry. Developments in Afghanistan and Iraq during 2002 also impacted on the aviation industry with deliveries of aviation turbine fuel in 2002 being 1 per cent lower than in 2001. Deliveries

of aviation turbine fuel increased by two thirds between 1990 and 2010. Deliveries increased vear on year between 2003 and 2006, but fell year on year between 2007 and 2010. These recent falls in consumption reflect the impacts of the economic downturn, and specific drops in aviation fuel consumption as a result of poor weather and the ash eruption from the Eyjafjallajökull volcano in 2010. In 2012, deliveries of aviation turbine fuel decreased by 3% compared to 2011. Despite robust passenger numbers post the economic downturn, increased efficiencies in the air-line industry have meant that fuel deliveries have not kept pace with passenger numbers. Chart 3.1.3 shows the trends in deliveries of all transport fuels from 1970 to 2012.

3.1.13 By the end of the 1980s and during the 1990s deliveries for non-energy uses were not far off their peak of the early to mid-1970s. Non-energy use has declined steadily in recent years, and is down a third on the most recent peak, in 2004.

3.1.14 The right hand columns of Table 3.1.2 (headed "Energy industry use" and "Final users") show a sector-by-sector breakdown of the total deliveries for energy use given in the left hand columns. Fuels used in blast furnaces are included in the "other energy industry uses" column rather than in the iron and steel column. Total uses by the transport sector are now roughly double the amount delivered in 1970 as Chart 3.1.3 shows. Deliveries to every other major sector are below 1973 levels well below for electricity generators, iron and steel and 'other industries', and other final users (mainly agriculture, public administration and commerce).



3.1.15 Additional analysis to that presented in this publication has been conducted on the information provided in Tables 3.1.1 and 3.1.2. The main purpose of this analysis was to extend the information provided back as far as possible, which has meant back to 1870 for some information. The tables are at the link below and an article containing this analysis was published in the March 2007 edition of Energy Trends which is available on request from DECC:

www.gov.uk/government/organisations/department-of-energy-climate-change/series/oil-statistics

A publication marking the 60th anniversary of the Digest of UK Energy Statistics is also available: www.gov.uk/government/organisations/department-of-energy-climate-change/series/digest-of-ukenergy-statistics-dukes

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3.1.1 Crude oil and petroleum products: production, imports and exports⁽¹⁾⁽²⁾

		C	rude oil (3)				Oil pro		sand tonnes
_			rude on (3)				On pro	uucis	
_	Imports		s production	Exports	Refinery throughput	Refinery output (4)	Exports	Imports	Inland deliveries (4)
10=0		Total	Landward						
1970	102,155	156	83	1,182	101,911	94,696	17,424	20,428	91,151
1971	107,736	212	85	1,569	105,342	98,245	17,166	19,369	91,991
1972	107,706	333	85	3,558	106,980	99,368	15,979	20,827	98,469
1973	115,472	372	88	3,235	114,338	105,954	17,404	18,300	99,786
1974	112,822	410	107	1,404	111,217	103,060	14,631	14,537	93,409
1975	91,366	1,564	99	1,524	93,597	86,647	13,924	12,786	82,824
1976	80,466	12,169	99	4,285	97,784	90,284	15,988	10,709	81,579
1977	70,697	38,265	99	16,793	93,615	86,338	14,160	13,050	82,759
1978	68,144	54,006	88	25,200	96,390	89,156	13,194	11,586	84,141
1979	60,380	77,748	121	40,569	97,806	90,583	12,988	12,035	84,554
1980	46,717	80,467	237	40,180	86,341	79,227	14,110	9,245	71,177
1981	36,855	89,454	232	52,206	78,287	72,006	12,256	9,402	66,256
1982	33,754	103,211	253	61,670	77,130	70,747	12,637	12,524	67,246
1983	30,324	114,960	316	69,923	76,876	70,927	13,331	9,907	64,464
1984	32,272	126,065	345	80,143	79,117	73,187	12,478	23,082	81,435
1985	35,576	127,611	380	82,980	78,431	72,904	14,828	13,101	69,781
1986	41,209	127,068	504	87,437	80,155	74,089	15,283	11,767	69,227
1987	41,541	123,351	578	83,220	80,449	74,656	14,980	8,570	67,701
1988	44,272	114,459	761	73,330	85,662	79,837	15,802	9,219	72,317
1989	49,500	91,710	722	51,664	87,669	81,392	16,683	9,479	73,028
1990	52,710	91,604	1,758	56,999	88,692	82,286	16,899	11,005	73,943
1991	57,084	91,261	3,703	55,131	92,001	85,476	19,351	10,140	74,506
1992	57,683	94,251	3,962	57,627	92,334	85,783	20,250	10,567	75,470
1993	61,701	100,189	3,737	64,415	96,273	89,584	23,031	10,064	75,790
1994	53,096	126,542	4,649	82,393	93,161	86,644	22,156	10,441	74,957
1995	48,749	129,894	5,051	84,577	92,743	86,133	24,420	9,879	73,694
1996	50,099	129,742	5,251	81,563	96,660	89,885	26,018	9,310	75,390
1997	49,994	128,234	4,981	79,400	97,023	90,366	29,118	8,706	72,501
1998	47,958	132,633	5,161	84,610	93,797	86,615	24,375	11,418	72,261
1999	44,869	137,099	4,285	91,797	88,286	81,195	21,730	13,896	72,436
2000	54,386	126,245	3,247	92,917	88,013	81,130	20,677	14,212	71,944
2001	53,551	116,678	2,921	86,930	83,343	77,051	19,088	17,234	71,354
2002	56,968	115,944	2,673	87,144	84,784	78,319	23,444	14,900	70,557
2003	54,177	106,073	2,198	74,898	84,585	79,073	23,323	16,472	71,697
2004	62,517	95,374	1,938	64,504	89,821	84,411	30,495	18,545	73,649
2005	58,885	84,721	1,648	54,099	86,134	80,146	29,722	22,481	75,363
2006	59,443	76,578	1,380	50,195	83,213	77,961	28,945	26,836	74,896
2007	57,357	76,575	1,271	50,999	81,477	76,509	29,983	25,110	72,748
2008	60,335r	71,665	1,248	48,401	81,034r	75,858r	28,803r	23,741r	69,911r
2009	55,056r	68,199	1,181	45,444	75,604r	75,536i 70,523r	25,491r	23,7411 22,172r	66,440r
0040	FF 00.4	00.000	044	40.400	70.540	00.500	00.005	00.005	05.000
2010	55,064r	62,962	941	42,196	73,543r	68,599r	26,065	23,665r	65,602r
2011	58,092r	51,972	678	33,745	75,080r	70,122r	27,800	22,656r	63,705r
2012	60,559	44,561	870	33,961	68,862	64,435	27,083	25,978	62,376

⁽¹⁾ Aggregate monthly data on crude oil production and trade in oil and oil products are available - see Chapter 3 paragraph 3.73 and Annex C.

⁽²⁾ See paragraphs 3.1.2 to 3.1.9.

⁽³⁾ Includes natural gas liquids and feedstocks.

⁽⁴⁾ Excludes products used as fuels within refinery processes.

3.1.1 Crude oil and petroleum products: production, imports and exports⁽¹⁾⁽²⁾ (continued)

	Net exports			Crude oil		Oil products	
				Ratio of	Ratio of	Imports:	
			Ratio of	indigenous	exports	Share of	
Crude	Oil		imports to ref.	production to	to indigenous	inland	
oil (5)	products (5)	Total (5)	throughput	ref. throughput	production	deliveries	
	Thousand tonnes	3		Ratio		Percentage	
-100,973	-3,004	-103,977	1.002	0.001	7.577	22.4	1970
-106,167	-2,203	-108,370	1.023	0.001	7.401	21.1	1971
-104,148	-4,848	-108,996	1.007	0.002	10.685	21.2	1972
-112,237	-896	-113,133	1.010	0.002	8.696	18.3	1973
-111,418	94	-111,324	1.014	0.002	3.424	15.6	1974
-89,842	1,138	-88,704	0.976	0.012	0.974	15.4	1975
-86,181	5,279	-80,902	0.925	0.118	0.352	13.1	1976
-53,904	1,110	-52,794	0.755	0.409	0.439	15.8	1977
-42,944	1,608	-41,336	0.707	0.560	0.467	13.8	1978
-19,811	953	-18,858	0.617	0.796	0.522	14.2	1979
-6,537	4,865	-1,672	0.541	0.932	0.499	13.0	1980
15,351	2,854	18,205	0.471	1.143	0.583	14.2	1981
27,916	113	28,029	0.438	1.338	0.597	18.6	1982
39,599	3,424	43,023	0.394	1.497	0.608	15.4	1983
48,141	-10,604	37,537	0.408	1.593	0.638	28.3	1984
47,404	1,727	49,131	0.454	1.627	0.650	18.8	1985
46,228	3,516	49,744	0.514	1.585	0.688	17.0	1986
41,679	6,410	48,089	0.516	1.533	0.675	12.7	1987
29,057	6,583	35,640	0.517	1.336	0.641	12.7	1988
2,164	7,204	9,368	0.565	1.046	0.563	13.0	1989
4,289	5,894	10,183	0.594	1.033	0.622	14.9	1990
-1,953	9,211	7,258	0.620	0.992	0.604	13.6	1991
-56	9,683	9,627	0.625	1.021	0.611	14.0	1992
2,714	12,967	15,681	0.641	1.041	0.643	13.3	1993
29,297	11,715	41,012	0.570	1.358	0.651	13.9	1994
35,828	14,541	50,369	0.526	1.401	0.651	13.4	1995
31,464	16,708	48,172	0.518	1.342	0.629	12.3	1996
29,406	20,412	49,818	0.515	1.322	0.619	12.0	1997
36,652	12,957	49,609	0.511	1.414	0.638	15.8	1998
46,928	7,834	54,762	0.508	1.553	0.670	19.2	1999
38,531	6,464	44,995	0.618	1.434	0.736	19.8	2000
33,378	1,854	35,232	0.643	1.400	0.745	24.2	2001
30,176	8,544	38,720	0.672	1.368	0.752	21.1	2002
20,720	6,851	27,571	0.641	1.254	0.706	23.0	2003
1,987	11,950	13,937	0.696	1.062	0.676	25.2	2004
-4,786	7,241	2,455	0.684	0.984	0.639	29.8	2005
-9,249	2,109	-7,140	0.714	0.920	0.655	35.8	2006
-6,357	4,874	-1,484	0.704	0.940	0.666	34.5	2007
-11,934r	5,062r	-6,871r	0.745	0.884	0.675	34.0	2008
-9,612r	3,319r	-6,293r	0.728	0.902	0.666r	33.4r	2009
-12,868r	2,400r	-10,468r	0.749	0.856	0.670	36.1r	2010
-12,0001 -24,348r	5,145r	-19,203r	0.774	0.692	0.649	35.6r	2011
-24,5461	1,105		0.774	0.647	0.762	41.6	2012
-20,398	1,100	-25,493	0.079	0.047	0.702	41.0	2012

⁽⁵⁾ A minus (-) signifies that in that particular year imports were greater than exports.

3.1.2 Inland deliveries of petroleum (1)(2)

									Milli	on tonnes
	Total			D	eliveries for	energy use	s			Deliveries
				Aviation		Gas	Fuel		Total for	for non-
		Motor	DERV	turbine	Burning	oil	oils	Petroleum	energy	energy
		spirit	fuel	fuel	oil	(3)	(4)	gases	uses (5)	uses
1970	97.18	14.24	5.04	3.25	2.48	11.56	42.12	3.54	87.05	10.13
1971	98.17	14.96	5.19	3.67	2.57	12.13	42.74	3.84	88.04	10.13
1972	104.89	15.90	5.25	3.93	2.93	14.56	44.85	4.08	94.21	10.68
1973	106.84	16.93	5.66	4.20	3.18	14.60	43.40	4.43	95.25	11.59
1974	100.39	16.48	5.52	3.69	2.78	13.12	40.71	3.80	88.53	11.86
1975	88.85	16.13	5.41	3.83	2.63	12.61	33.81	3.51	79.41	9.44
1976	87.92	16.88	5.59	3.99	2.62	12.53	30.90	3.85	77.81	10.11
1977	89.00	17.34	5.71	4.17	2.62	13.38	30.74	3.88	79.28	9.72
1978	90.56	18.35	5.88	4.51	2.65	13.19	31.50	3.84	81.16	9.40
1979	91.09	18.69	6.06	4.67	2.70	13.49	30.95	3.88	81.56	9.53
1980	77.50	19.15	5.85	4.69	2.10	11.62	22.69	3.52	70.50	7.00
1981	71.70	18.72	5.55	4.50	1.91	10.93	18.64	3.15	64.15	7.55
1981	71.70	19.25	5.73	4.47	1.75	10.93	19.16	3.45	65.19	7.60
1982	69.77	19.23	6.18	4.47	1.75	9.88	15.03	3.45	61.75	8.02
1984	86.79	20.23	6.76	4.83	1.71	9.92	30.26	3.79	78.61	8.18
1985	74.96	20.23	7.11	4.63 5.01	1.71	9.92	18.19	3.15	66.48	8.48
1986	74.62	21.47	7.87	5.50	2.02	9.22	14.64	3.46	65.26	9.36
1987	72.92	22.18	8.47	5.82	2.03	8.51	11.90	3.45	63.52	9.40
1988 1989	77.80 78.85	23.25 23.92	9.37 10.12	6.20 6.56	1.99 1.94	8.39 8.26	13.83 13.14	3.62 3.88	67.80 68.97	10.00 9.88
1909	70.03	23.92	10.12	0.30	1.54	0.20	13.14	3.00	00.97	5.00
1990	79.78	24.31	10.65	6.59	2.06	8.03	14.02	3.88	70.61	9.17
1991	80.56	24.02	10.69	6.18	2.38	8.02	14.17	4.00	70.61	9.95
1992	81.55	24.04	11.13	6.67	2.47	7.86	13.74	3.84	70.92	10.63
1993	82.18	23.77	11.81	7.11	2.63	7.78	13.13	4.05	71.45	10.73
1994	81.22	22.84	12.91	7.28	2.66	7.51	11.73	4.06	70.04	11.18
1995	80.17	21.95	13.46	7.66	2.77	7.25	10.30	4.26	68.85	11.32
1996	82.01	22.41	14.37	8.05	3.34	7.65	9.15	4.55	70.72	11.29
1997	79.25	22.25	14.98	8.41	3.34	7.38	6.25	4.22	68.30	10.95
1998	78.44	21.85	15.14	9.24	3.57	7.31	5.35	4.05	67.75	10.69
1999	77.97	21.79	15.51	9.94	3.63	6.73	4.45	3.97	67.24	10.73
2000	77.20	21.40	15.63	10.81	3.84	6.81	3.35	3.99	67.14	10.05
2001	76.41	20.94	16.06	10.61	4.24	6.60	4.26	3.76	67.53	8.89
2002	76.23	20.81	16.93	10.52	3.58	5.94	3.77	3.84	66.56	9.67
2003	77.15	19.92	17.71	10.76	3.57	6.24	3.56	3.90	66.74	10.41
2004	79.07	19.48	18.51	11.64	3.95	5.97	3.74	4.11	68.48	10.58
2005	81.10	18.85	19.38	12.50	3.87	6.83	3.78	4.19	70.66	10.44
2006	79.77	18.09	20.16	12.64	4.02	6.31	3.25	4.15	70.02	9.76
2007	77.42	17.61	21.04	12.57	3.63	6.12	3.23	3.88	69.46	7.97
2008	74.62r	16.54	20.50	12.14r	3.68r	4.97r	2.78r	4.21r	66.22r	8.40r
2009	70.74r	15.61	20.11	11.53	3.73	4.42r	2.22r	3.89r	63.13r	7.61r
06:-										
2010	69.98r	14.60	20.74	11.12	4.01	4.46r	1.97r	4.06r	62.30r	7.68r
2011	68.29r	13.89	20.99	11.57	3.29	4.18r	1.52r	4.17r	61.08r	7.21r
2012	66.63	13.23	21.54	11.22	3.33	4.50	1.11	3.64	60.17	6.47

⁽¹⁾ Aggregate monthly and quarterly data on inland deliveries of oil products are available - see Chapter 3, paragraph 3.73 and Annex C.

⁽²⁾ This table has been revised from previous editions to be fully compliant with the commodity balances format used in Chapter 3, Tables 3.2 to 3.4. This has involved adding in the refinery fuel elements into the above product totals, and an adjustment to the data for fuels used by the iron and steel industry as detailed in footnote (6) below.

⁽³⁾ Other than DERV fuel. From 1999 includes marine diesel oil.

3.1.2 Inland deliveries of petroleum (1)(2) (continued)

Million tonnes

·		rs	Final use			use	industry ı	Energy	
	Other					Other energy			
	final			Other	Iron &	industry uses		Gas	Electricity
	users (7)	Domestic	Transport	industries	steel	(6)	Refineries	works	generators
1970	8.59	3.05	25.00	21.55	1.42	4.25	6.03	4.56	12.60
1971	8.67	3.01	26.07	21.55	1.32	3.97	6.18	2.59	14.68
1972	8.91	3.48	27.14	22.14	1.26	3.78	6.42	2.21	18.87
1973	9.00	3.80	28.96	22.18	1.25	3.74	7.05	2.32	16.95
1974	7.95	3.38	27.92	19.82	1.01	3.02	6.95	1.28	17.21
1975	7.93	3.27	27.57	17.89	0.83	2.48	6.03	0.59	12.82
1976	7.80	3.27	28.60	18.06	0.83	2.48	6.34	0.25	10.18
1977	8.60	3.31	29.37	18.06	0.74	2.21	6.24	0.16	10.60
1978	8.24	3.26	30.87	17.55	0.71	2.12	6.42	0.35	11.64
1979	8.27	3.21	31.58	17.62	0.71	2.14	6.49	0.42	11.12
1980	7.01	2.55	31.74	14.51	0.40	1.19	6.27	0.31	6.52
1981	6.65	2.31	30.63	12.67	0.33	1.00	5.45	0.25	4.86
1982	6.28	2.15	31.31	11.64	0.30	0.89	5.55	0.21	6.87
1983	6.00	2.14	32.25	10.23	0.26	0.77	5.30	0.16	4.65
1984	6.00	2.14	33.82	9.39	0.21	0.63	5.35	0.16	20.91
1985	5.65	2.20	34.46	8.43	0.17	0.52	5.18	0.15	9.72
1986	5.36	2.32	36.66	9.02	0.17	0.50	5.40	0.17	5.66
1987	4.67	2.21	38.22	7.36	0.14	0.42	5.05	0.09	5.36
1988	4.67	2.13	40.62	8.23	0.18	0.55	5.29	0.06	6.07
1989	4.21	2.11	42.54	7.52	0.19	0.56	5.62	0.05	6.17
1990	4.11	2.22	43.45	7.03	0.18	0.53	5.07	0.05	7.98
1991	4.17	2.52	42.86	7.49	0.18	0.53	5.26	0.05	7.56
1992	4.22	2.58	43.79	7.13	0.17	0.51	4.16	0.04	8.32
1993	4.21	2.71	44.56	7.17	0.21	0.64	5.89	0.04	6.02
1994	4.03	2.70	44.82	7.47	0.22	0.67	6.04	0.05	4.04
1995	3.69	2.70	44.81	6.41	0.21	0.62	5.99	0.05	4.37
1996	3.65	3.17	46.64	6.41	0.09	0.65	6.50	0.05	3.57
1997	3.12	3.06	47.32	5.68	0.11	0.57	6.16	0.05	2.24
1998	2.92	3.20	47.92	5.75	0.08	0.27	6.18	0.05	1.40
1999	2.47	2.85	48.85	5.28	0.06	0.98	5.54	0.05	1.17
2000	2.11	2.92	49.45	5.35	0.14	0.90	5.25	0.04	0.98
2001	2.32	3.18	49.11	5.98	0.08	0.82	5.06	-	0.97
2002	1.66	2.78	49.64	5.62	0.08	0.44	5.68	-	0.67
2003	1.05	2.76	50.29	6.25	0.02	0.38	5.46	-	0.54
2004	1.32	2.94	51.55	6.27	0.03	0.36	5.42	-	0.59
2005	1.62	2.78	52.77	5.92	0.02	0.33	5.60	-	1.26
2006	1.40	2.93	53.33	5.50	0.02	0.29	4.88	-	1.24
2007	1.41	2.59	53.49	5.43	0.06	0.26	4.68	-	1.13
2008	1.30	2.73	50.34r	4.83r	0.01r	0.27	4.71r	-	1.58r
2009	1.15r	2.71	48.37r	4.46r	0.01r	0.12r	4.30r	-	1.56r
2010	1.15	3.08	47.52r	4.49r	0.01r	0.07	4.38r	-	1.11r
2011	1.25	2.40	47.57r	3.94r	0.00	0.07r	4.59r	-	0.72r
2012	1.17	2.43	47.04	3.85	0.00	0.07	4.25	-	0.74

⁽⁴⁾ Includes Orimulsion from 1989. Imports / deliveries of Orimulsion ceased in February 1997.

⁽⁵⁾ Includes aviation spirit, naphtha (LDF) for gasworks and wide cut gasoline.

⁽⁶⁾ Use of gas oil & fuel oil by iron & steel industry in blast furnaces. Data from 1999 provided by the Iron & Steel Statistics Bureau and include estimates of fuel used to generate heat that is sold to third parties.

⁽⁷⁾ Mainly agriculture, public administration, commerce and other services.

Chapter 4: Long term trends

Gas

Natural gas and colliery methane production and consumption (Table 4.1.1)

- 4.1.1 Table 4.1.1 shows data for production, imports, exports, and the consumption of natural gas and colliery methane by major sector in each year from 1970 to 2012. Separate figures are shown for consumption of town gas and methane.
- 4.1.2 Total consumption in Table 4.1.1 is defined to match the definition of gas consumption used in the gas tables before the 1999 Digest. This enables a consistent long term series to be presented. In 2012, total consumption of natural gas and colliery methane in this table is related to total UK consumption of natural gas in Table 4.3 of Chapter 4 of the main Digest as follows:

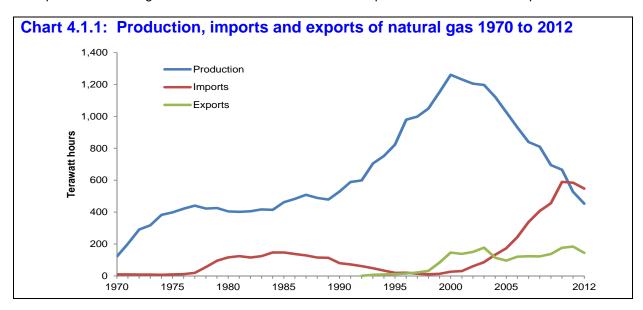
	GWh
Total consumption (Table 4.1.1)	845,633
less Colliery methane	<u>- 712</u>
equals	
Total consumption of natural gas	844,921
less Producers' own use	- 48,461
less Operators' own use	<u>- 1,682</u>
equals	
Total UK consumption (Table 4.3)	794,779

Paragraph 4.11 of Chapter 4 of the main Digest shows how natural gas consumption in Table 4.3 relates to total demand in the balances Tables 4.1 and 4.2.

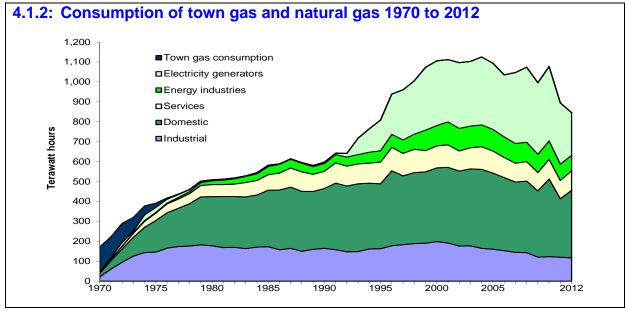
- 4.1.3 Chart 4.1.1 illustrates the data in Table 4.1.1. It shows how the supply of natural gas became established during the first part of the 1970s. Thereafter, the supply of natural gas continued to grow less rapidly, with indigenous production bolstered from 1977 by increasing imports from the Norwegian sector of the North Sea. By 1998 imports had fallen to only 7 per cent of their peak in the mid-1980s. This was not only due to the depletion of the (mainly Norwegian) Frigg field (which ceased production in October 2004), but also resulted from the resurgence of UK production, which achieved a new record each year from 1989 to 2000. Since 2000, UK production has fallen by over 60 per cent, as UK reserves deplete. In 2012 production was over 14 per cent lower than in 2010. This was the third largest fall since production peaked in 2000 and reflected continuing production problems on the UK Continental Shelf (UKCS). As a result, imports exceeded production by over 20 per cent in 2012, up 10 percentage points on 2011.
- 4.1.4 The first exports of natural gas were seen in 1992 from the United Kingdom's share of the Markham gas field to the Netherlands. In 1995, these were supplemented by the first exports to the Republic of Ireland, followed by the start of gas exports from the Windermere field via the Markham field during 1997, and exports via the UK-Belgium interconnector during 1998. By 2000, exports were almost six times the volume of imports. The total volumes of gas traded in 2012 fell by around 10 per cent from the peak in 2011, with a reduction in exports to Belgium and in UK LNG imports.
- 4.1.5 In October 2001, new gas supplies began to arrive from the Norwegian sector of the North Sea via the newly commissioned Vesterled pipeline. In December 2003 imports re-commenced from the UK/Norway trans-median line Statfjord field. These additional supplies of gas from the Norwegian sector of the North Sea saw the UK become a net importer of gas in 2004 for the first time since 1996. In 2005, imports of liquefied natural gas (LNG) via the Isle of Grain import/storage facility began increasing UK net imports. In October 2006, the first gas flowed through the Langeled pipeline giving the UK additional access to Norwegian gas fields. Also in October 2006, the compressors at Zeebrugge were upgraded increasing the import capacity through UK-Belgium interconnector. In December 2006, a second interconnector from Balgzand in the Netherlands to Bacton gave the UK access to the Dutch Continental Shelf. In 2007 three new fields, Chiswick, Grove and Minke, joined Markham and Windermere in exporting gas directly to the Netherlands. 2007 also saw gas exports to

Norway, ie UK gas from the Blane field to the Norwegian Ula field for injection into the Ula reservoir. In 2008 additional direct exports of gas to the Netherlands began from the new Stamford field.

4.1.6 In 2009 two new LNG import facilities became operational. As a result, LNG's share of total gas imports rose from 25 per cent in 2009 to 35 per cent in 2010, and to 47 per cent in 2011. Strong competition from the global market for LNG resulted in a drop back to 28% share of imports in 2012.



4.1.7 Chart 4.1.2 shows where natural gas has been consumed. The bulk of the rapid growth in consumption in the 1970s was in the domestic and industrial sectors. In the 1980s and early 1990s, there was a fall in industrial use. However, gas consumption by industry was on an upward trend from 1992 to 2000, when it exceeded the previous peak of 1985 by 14 per cent. Since then, industrial use of gas has fallen back, and in 2012 was over 40 per cent lower than in 2000. The biggest fall occurred between 2008 and 2009 when industrial consumption fell 16 per cent due to adverse economic conditions. Between 1980 and 2004, gas consumption by the service sector increased by almost 90 per cent and has remained stable between 90 and 100 TWh over the past 6 years. Domestic gas consumption was 16 per cent higher in 2012 than in 2011, as a result of the colder weather conditions in 2012.



¹ 'Services' is defined in table 4.1.1 as including public administration, commercial activities and agriculture,

- 4.1.8 The largest increase in gas consumption occurred in the 1990s with the growth of gas fired generation (see Chart 4.1.2). Gas use for generation grew from 6.5 TWh in 1990 to 324.6 TWh in 2000. From 2000 to 2010, its level fluctuated but remained around a third of gas use. In 2011, gas use for electricity generation was 18 per cent lower than in 2010, and from 2011 to 2012 dropped by over 30 per cent, the largest ever fall. This reflects a shift from gas to coal, brought about by more favourable coal prices. Overall consumption of natural gas continues to fall from its peak in 2004, and in 2012 was 25 per cent below this peak.
- 4.1.9 A more detailed examination of historical gas statistics was published in the December 2001 issue of Energy Trends. This looked at trends since 1882 in gas production, gas consumption and fuel used in the past to manufacture gas. The updated data set on which the article is based is available on the DECC web site at:

www.gov.uk/government/organisations/department-of-energy-climate-change/series/gas-statistics. The original article is available on request from DECC.

4.1.10 Analysis of gas statistics from 1948 to 2008 can also be found in chapter 4 of the DUKES: 60th anniversary article, available at:

www.gov.uk/government/organisations/department-of-energy-climate-change/series/digest-of-uk-energy-statistics-dukes

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4.1.1 Natural gas and colliery methane production and consumption 1970 to 2012

GWh

	Prod	uction	Imports	Exports	Total fo	or consumpt	ion	Dom	nestic
	Town gas (1)	Methane	Methane (3)	Methane	Total	Town gas	Methane (2)	Town gas	Methane
1970	49,617	121,712	9,759	-	171,564	125,933	45,631	85,430	18,376
1971	24,882	201,721	9,730	-	222,616	104,245	118,371	73,502	41,675
1972	17,848	291,078	8,968	-	290,287	95,834	194,453	64,974	67,172
1973	21,336	317,132	8,587	_	319,917	68,286	251,631	46,598	94,515
1974	12,221	382,253	7,122	_	377,388	44,840	332,548	30,450	127,339
1975	5,393	397,932	9,818	_	391,250	20,984	370,237	14,507	158,141
1976	1,700	421,700	11,254	_	417,655	6,272	411,120	4,250	177,279
1977	762	440,544	19,548	_	436,793	2,051	434,742	1,290	191,844
1978	615	422,257	55,361	_	460,297	938	459,359	557	212,242
1979	674	425,832	95,424	_	502,382	1,055	501,327	586	240,465
		,		_	,	1,000	,		_ ,,,,,,,
1980	586	404,760	116,291	_	508,684	909	507,775	557	246,766
1981	557	401,742	124,262	_	512,112	791	511,321	469	256,379
1982	557	405,815	115,001	_	518,149	674	517,475	410	255,118
1983	586	416,454	124,497	_	528,642	528	528,114	322	259,661
1984	557	414,314	147,415	_	544,584	498	544,086	293	261,507
1985	498	461,851	147,122	_	581,717	469	581,248	293	283,517
1986	440	483,040	137,099	_	588,691	410	588,281	234	299,929
1987 <i>(4)</i>	322	508,126	128,893	_	614,247	322	613,925	147	307,578
1988	88	489,133	115,441	_	594,766	88	594,678	29	300,515
1989	-	478,931	113,770	-	580,522	-	580,522	-	290,557
1990	-	528,843	79,833	-	597,046	-	597,046	-	300,410
1991	-	588,822	72,007	-	641,763	-	641,763	-	333,963
1992	-	598,761	61,255	620	640,818	-	640,818	-	330,101
1993	-	703,971	48,528	6,824	717,357	-	717,357	-	340,162
1994	-	751,588	33,053	9,557	764,667	-	764,667	-	329,710
1995	-	823,336	19,457	11,232	808,786	-	808,786	-	326,010
1996	-	979,019	19,804	15,203	938,848	-	938,848	-	375,841
1997	-	998,871	14,062	21,666	960,243	-	960,243	-	345,532
1998	-	1,048,859	10,582	31,604	1,005,306	-	1,005,306	-	355,895
1999	-	1,152,635	12,862	84,433	1,072,963	-	1,072,963	-	358,066
2000	-	1,260,656	26,032	146,342	1,105,537	-	1,105,537	-	369,909
2001	-	1,231,263	30,464	138,330	1,111,729	-	1,111,729	-	379,426
2002	-	1,205,405	60,493	150,731	1,096,267	-	1,096,267	-	376,372
2003	-	1,197,030	86,298	177,039	1,102,774	-	1,102,774	-	386,486
2004	-	1,121,257	133,033	114,112	1,124,996	-	1,124,996	-	396,411
2005	-	1,025,989	173,328	96,181	1,093,331	-	1,093,331	-	381,879
2006	-	930,538	244,029	120,591	1,035,325	-	1,035,325	-	366,928
2007	-	838,809	338,026	123,158	1,046,817	-	1,046,817	-	352,868
2008	-	810,385	407,054	122,670	1,073,535r	-	1,073,535r	-	359,554
2009	-	694,741r	455,789	137,100	995,840r	-	995,840r	-	332,499
2010	-	665,083	589,497	176,399	1,076,992r	-	1,076,992r	-	389,595
2011	-	526,734r	584,414	183,689	894,205r	-	894,205r	-	293,400r
2012	-	452,806	547,300	144,023	845,633	-	845,633	-	339,080

⁽¹⁾ In most years production of town gas is less than consumption because of transfers into town gas of North Sea and

⁽²⁾ Includes colliery methane.

⁽³⁾ Before 1977 imports were of liquefied natural gas. These imports continued until the early 1980s.

⁽⁴⁾ From 1987 data for industrial use of gas exclude gas used for electricity generation within industry (see Chapter 1, paragraph 1.27).

4.1.1 Natural gas and colliery methane production and consumption 1970 to 2012 (continued)

GWh Analysis of consumption Industrial (5) Other energy Services (7) Electricity generators industries (6) Town Methane Methane Methane Town Methane Town gas (8) gas (2)gas 1,858 1970 20,691 20,808 1,160 19,812 3,428 7,808 1971 12,075 60,431 926 18,669 7,531 13,423 94,662 18,563 633 17,438 13,423 1972 9,173 125,552 8,453 2,743 12,514 20,369 1973 5.744 143,341 28,967 3,094 8,646 29,806 1974 2,579 146,067 25,245 3,241 3,898 37,542 1975 1976 791 165,644 19,501 3,563 1,231 45,132 352 173,820 15,310 7,637 410 46,131 1977 176 176,253 10,006 9,952 205 50,906 1978 205 182,232 7,104 14,143 264 57,382 1979 177,513 4,027 19,096 205 60,373 1980 147 147 168,574 4,174 22,320 176 59,874 1981 169,717 3,793 26,657 176 62,190 1982 88 59 163,123 2,357 30,819 147 72,154 1983 59 170,831 5,317 33.193 147 73,238 1984 1985 29 172,941 5.873 41,135 147 77,781 29 157,496 2,269 43,421 147 85,166 1986 29 164,442 2,415 43,743 147 95,746 1987 2,407 1988 149,935 44,109 97,712 159,701 6,210 37,850 86,204 1989 164,595 6,513 39,159 86,369 1990 157,932 6,650 41,472 101,746 1991 147,218 17,969 45,660 1992 99,871 148,522 81,848 47,006 99,819 1993 117,606 54,700 1994 161.815 100.836 154,393 1995 162,797 56,565 109,020 177,794 201,969 65,336 117,908 1996 182.867 251,822 67,245 112,777 1997 188,595 267,733 75,459 117.624 1998 190,415 315,493 102,502 1999 106,487 2000 198,506 324,563 102,103 110,456 191,600 312,939 114,653 113,111 2001 176,168 329,847 113,047 100,833 2002 2003 176,778 324,580 108,197 106,733 340.824 2004 164.702 109.584 113,475 160,295 331,658 108,709 110,791 2005 153,065 311,408 103,270 100,654 2006 144,298 355,878 98,946 94,827 2007 142,857r 376,810 96,988 97,326r 2008 120,479r 2009 359,303 91.489r 92,070r 373,586 2010 123,134r 92,114r 98,563r 119,967r 307,140r 81,770r 91,929r 2011 116,938 214,146 77,835 97,634 2012

⁽⁵⁾ Industrial consumption in Chapter 4, Tables 4.1 and 4.2 plus use in coke manufacture and blast furnaces and non energy gas use.

⁽⁶⁾ Energy industry use in Chapter 4, Tables 4.1 and 4.2 less use in coke manufacture and blast furnaces plus gas transferred to heat for sale.

⁽⁷⁾ Public administration, commercial, agriculture and miscellaneous in Chapter 4, Tables 4.1 and 4.2.

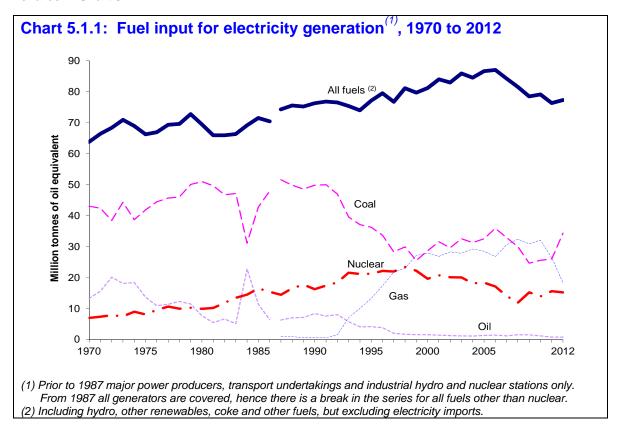
⁽⁸⁾ Town gas consumption by the energy industries is included with the industrial sector.

Chapter 5: Long term trends

Electricity

Fuel input for electricity generation (Table 5.1.1)

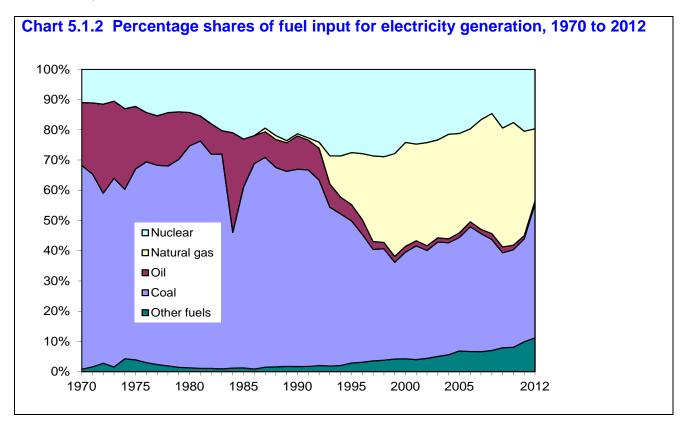
- 5.1.1 This table extends the series shown in Table 5.4 of Chapter 5 of the main Digest back to 1970. For the period up to 1987, only fuel inputs for electricity generation at stations owned by the major power producers, transport undertakings, and industrial hydro-electric and nuclear power stations are given; data for conventional thermal electricity generated by industrial producers are not available for this period. From 1987 onwards the table covers **all** generating companies.
- 5.1.2 The unit of measurement used in this table is the tonne of oil equivalent. An outline of the method used for converting both fossil and non-fossil fuel energy sources to this unit is given in paragraph 5.74 of Chapter 5 of the main Digest.
- 5.1.3 Trends in fuel input for electricity generation are shown in Chart 5.1.1 and trends in percentage shares in Chart 5.1.2.



- 5.1.4 In 1970, coal provided over two thirds of the fuel input for electricity generation, with oil making up two thirds of the rest. Oil use reached a peak in 1972 when it accounted for 29 per cent of fuel input, but after the oil supply crisis in the following year, its use declined, apart from a temporary increase, to 33 per cent of fuel input, during the 1984/85 coal miners' dispute. Since the mid-1990s, oil has become a minority fuel, used mainly for meeting demand peaks and in co-firing with coal or gas; it fell from 11 per cent of fuel input in 1990 to 1.3 per cent in 2004. Between 2004 and 2009, with the exception of 2007, oil's share increased slightly, to between 1.5 and 1.9 per cent, due to several stations co-firing petroleum coke with coal. Since then, petroleum coke use has declined, with oil's share falling to a new low of 1.0 per cent in 2012.
- 5.1.5 Nuclear generation grew steadily from 11 per cent in 1970 until 1998 when it reached a peak when its oil equivalent input amounted to 29 per cent of total fuel input. In subsequent years, higher levels of outages for maintenance, repair and safety case work reduced this proportion, as did the closure of some older stations. After stabilizing at around 24 per cent in 2000 to 2003, nuclear declined to 14 per cent in 2008, with maintenance outages again impacting significantly, but increased back to 19 per cent in 2009 as

stations returned to operation. In 2010, however, extensive maintenance outages again reduced the share, to 18 per cent, before increased availability in 2011 resulted in an increase to 20 per cent, its highest share of the fuel input since 2005. Despite an increase in generation from nuclear in 2012, a higher thermal efficiency meant fuel use actually fell, resulting in a slight fall in nuclear's share.

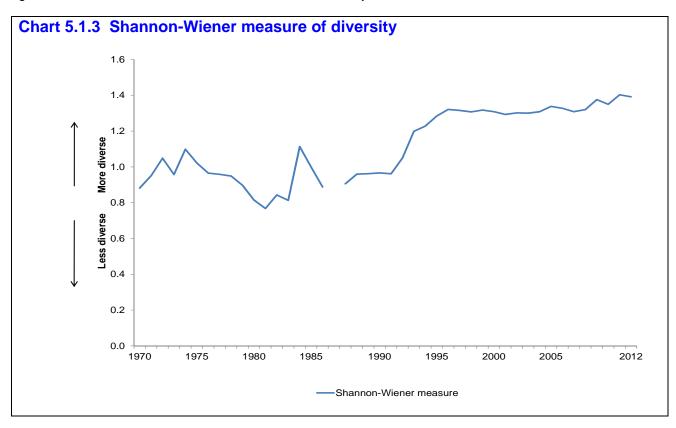
5.1.6 Between 1975 and 1990, a European Community directive limited the use of natural gas in public supply power stations. After 1991, the role of gas in electricity generation grew rapidly, its share rising from 2 per cent in 1992 to 17 per cent in 1995, and 28 per cent in 1998, before exceeding coal and nuclear in 1999, at 34 per cent.



- 5.1.7 Between 2000 and 2005, gas's share remained between 32 and 35 per cent, but in 2006 high gas prices paid by generators reduced the share to 31 per cent, the lowest level since 1998. Since 2006, gas's share has generally increased, and in 2010 hit a record high share of fuel use of 41 per cent. In the last two years, with high prices relative to coal (as well as increased nuclear availability and generation from renewables), gas's share has fallen again and in 2012 it was 24 per cent, its lowest share since 1996.
- 5.1.8 Throughout the 1970s, 1980s and early 1990s, coal provided the largest input to generation, but by 1999 its share had fallen to 32 per cent, having been 50 per cent as recently as 5 years earlier, and 65 per cent 10 years earlier. Since 2000, coal has been called upon to make up for unavailable nuclear and gas fired stations and then as a substitute for high priced gas, so its share recovered to 38 per cent of fuel input in 2001, remaining at between 36 and 38 per cent for the next four years. Coal's share rose further in 2006 to 41 per cent as gas prices rose significantly higher, before falling back over the next three years to stand at 31 per cent in 2009. In 2010, maintenance outages at nuclear stations, as well as high final quarter electricity demand, led to a rise in coal's share, to 32 per cent. Since then coal's share has risen, with high gas prices making coal generation more favourable. In 2012 coal's share was 44 per cent, its highest level since 1995.
- 5.1.9 Since the early 1990s, the share of other fuels in the overall fuel input for generation has gradually increased, from 1.7 per cent in 1990 to 11 per cent in 2012. This is largely as a result of an increasing use of renewables, particularly thermal sources such as landfill gas, co-firing with fossil fuels and waste combustion. Almost half of the growth since 2000, however, has been due to a substantial increase in

generation from wind. ¹ Further information on the increase in the use of renewables since 1990 can be found in Chapter 6 of the Digest's Long Term Trends section.

5.1.10 The changes in fuel shares are represented in the Shannon-Wiener measure of diversity (see chart 5.1.3). The diversity index is affected by the number of fuels used in the mix and the evenness of their distribution, so at the beginning of the 1990's fuel diversity was low as the generation mix was dominated by two fuels (coal and nuclear). The increase in use of gas during the 1990's meant that by the late 1990's coal, gas and nuclear had a roughly equal share in the generation mix which is reflected in the higher diversity index. The measure remained around the 1.3 value for most of the 2000s as the three main fuels continued to dominate. However, despite fluctuations, the measure of diversity over the last three years has been on an upward trend, reaching 1.4 in 2012, as wind and other renewables' shares of fuel use have begun to increase, at the expense of the combined three major fuels. If all fuels currently used for electricity generation had an even contribution to the mix the diversity index would be 1.9.



Electricity supply, availability and consumption (Table 5.1.2)

5.1.11 Figures for the supply, availability and consumption of electricity are given in Table 5.1.2. This table retains the nomenclature of electricity chapters in the 1999 and earlier Digests, whereas the balance methodology has introduced a new nomenclature (see Chapter 5 of the main Digest, paragraph 5.33 and Table 5.5). The series in Table 5.1.2 are extended back to 1970.

5.1.12 For the period up to 1986, the data for electricity supplied covered major power producers, transport undertakings and industrial hydro and nuclear stations only. Purchases from other electricity producers are also included, along with net imports, to give electricity available. Losses are deducted from electricity available to give consumption, which is shown by type of consumer. Availability and consumption before 1986 exclude electricity consumed or sold by other generators without passing through the public distribution system.

5.1.13 The table shows that virtually all electricity available came from home supply until 1986 when the interconnector between France and England commenced operations. At their peak in 1994, net imports from France contributed over 5 per cent of total electricity available in the UK. Net imports remained at this high level (supplemented with net imports into Northern Ireland from the Irish Republic over the interconnector reinstated in 1996) until 1997 but then declined. By 2002 the proportion of electricity available had fallen to 2

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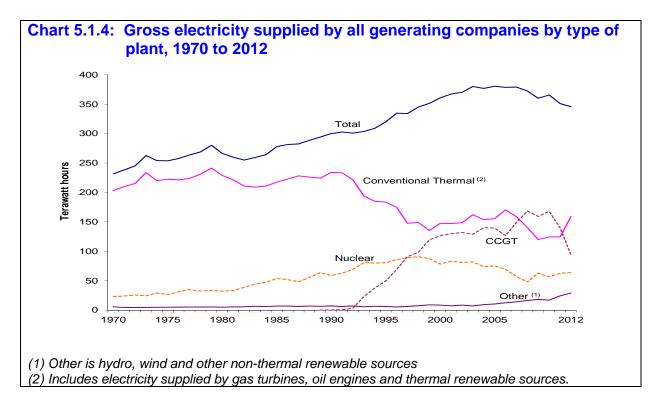
¹ The impact from increased generation from wind is lessened, compared with thermal fuels, which, due to conversion losses, use more fuel per unit of generation (for primary sources, such as wind and hydro, the amount of fuel used is assumed to be the same as the amount of generation).

per cent mainly because, under NETA, electricity prices fell, removing the cost advantages previously enjoyed by French electricity. In 2003, exports of electricity to continental Europe, fostered by higher electricity prices there, became a more prominent feature, reducing net imports to only 0.6 per cent of electricity available. Between 2004 and 2006, the share of net imports returned to 2 per cent, but in 2007 fell back to 1.4 per cent with higher exports to continental Europe. After doubling in 2008, to stand at 2.9 per cent of electricity available, net imports fell to less than one per cent 2009 and 2010, with imports in 2010 falling to almost half of 2008's level and exports more than trebling. In 2011, a new interconnector was opened, linking England with the Netherlands. As with the France interconnector, the Netherlands was mainly used for imports, with total imports to the UK nearly doubling in 2012 compared to 2010, and exports decreasing by over 60 per cent. This resulted in net imports in 2012 almost doubling on 2011, to both its highest level (12.0 TWh), and highest share of electricity available (3.4 per cent), for 12 years.

- 5.1.14 Consumption of electricity by industry accounted for around a third of total consumption in 1975 and the current proportion is still around a third, despite the growth of the service sector in the economy. There was a 55 per cent increase in electricity consumption by industry in the 30 years to 2005. In each of 2006 and 2007, industrial electricity consumption fell by between one and two per cent, before a small increase of around 1 per cent in 2008. The economic slowdown in 2009 resulted in a 13 per cent fall, to 100.3 TWh, the lowest level since 1994, and 14 per cent below 2005's record high level. Consumption increased by 4.6 per cent in 2010, as the sector recovered, but fell again in the next two years to 98.3 TWh in 2012.
- 5.1.15 The domestic sector's share of total consumption was around 40 per cent during the 1970's, before declining to just over one third in the 1980's. Domestic's share remained around one third, increasing slightly over the early 2000s (at the expense of industrial consumption) to reach an 18 year high share in 2004 of 36 per cent. Since then, it has remained around 34 to 35 per cent, with the exception of an increase in 2009 to 36 per cent, as industrial consumption was hit by the recession. In 2011, it fell to its lowest level in 12 years, but rose again by 3 per cent in 2012, due to a cold final quarter. The volume of electricity consumed in the domestic sector has increased by 33 per cent since 1980. The biggest growth in consumption has been in the services sector which, in 2013, was 80 per cent higher than in 1980. Services' share of consumption rose from 25 per cent in 1980 to 31 per cent in 1997, and remained around 30 to 31 per cent until 2010, with the last two years showing a slight increase to 32 per cent, in part reflecting the reduction in consumption in the industrial sector.

Electricity generated and supplied (Table 5.1.3)

- 5.1.16 Figures for the generation and supply of electricity are given in Table 5.1.3. This table retains the nomenclature of electricity chapters in the 1999 Digest and earlier, whereas the balance methodology has introduced a new nomenclature (see Chapter 5 of the main Digest, paragraph 5.33 and Table 5.5). Data are given for major power producers, for other generators and for all generators in total, with separate series for the different types of power station.
- 5.1.17 Over the whole period 1970 to 2012, total gross electricity supplied by all generating companies has increased at an average annual rate of 1.0 per cent. However, within these 42 years, there was growth at 2.3 per cent a year in the early 1970s, 2.0 per cent a year in the late 1970s, a decline of 0.9 per cent a year on average during the early 1980s, 1.4 per cent growth in the late 1980s, and 1.8 per cent growth in the 1990s. Between 2000 and 2005, growth slowed to 1.1 per cent a year, before falling to a decline of 1.4 per cent between 2005 and 2009. As demand from an improving economy increased in 2010, electricity supplied increased by 1.5 per cent, before falling by 4.0 per cent in 2011 and another 1.5 per cent in 2012.



5.1.18 In the period between 1970 and 1994 electricity output by generators other than the major producers fluctuated between 11,000 and 18,000 GWh, but moved up to over 20,000 GWh in 1995. Subsequently, it increased every year to reach almost 34,000 GWh in 2000, mainly as a result of the greater capacity of combined heat and power (CHP) schemes now in use (see main Digest, Chapter 7). However, in 2001 electricity supplied by other generators fell back to 30,400 GWh, mainly because high gas prices discouraged generation, but since then it increased in most years to 34,600 GWh in 2006, aided by growth in generation from renewables. The contribution of other generators to total supply was under 7 per cent in 1970 and fell to just over 5 per cent in 1990, but then increased again to reach 9.4 per cent in 2000. In 2001, it fell back to 8.3 per cent, before increasing again and reaching just over 9 per cent in 2006. From 2007, major wind farm companies are included under Major Power Producers, so these are no longer included under 'other generators' (see paragraph 5.67 in the main Digest). Despite this, other generators' share has remained at around the 9 per cent mark. In 2012, other generators' supplied 33,609 GWh, around one per cent less than in 2007 (on account of less generation from CHP and non-renewable schemes), but, with 8.8 per cent less total supply, this represented a record 9.7 per cent share.

5.1.19 Trends in electricity supplied by all generators by type of plant are illustrated in Chart 5.1.4. In 1970, conventional thermal power stations produced 88 per cent of the gross electricity supplied. Output from these stations reached a peak in 1990 before falling back because of the development of new generating technologies. Firstly there was the development of nuclear generation, which supplied only 10 per cent of total gross electricity supplied by United Kingdom generators in 1970 but by 1997 accounted for 27 per cent. Subsequently, nuclear's share has been on a downward trend and its 13 per cent share in 2008 was the lowest since 1981. However, nuclear's share grew again in 2009 to 17 per cent as stations returned from outages for repairs and maintenance, before falling to 15 per cent in 2010, again due to maintenance outages. In the last two years the share has increased again, reaching 18 per cent in 2012, a seven year high, as availability has once again improved. Secondly there was the growth of combined cycle gas turbine stations (CCGTs), which overtook nuclear in 1997 and in 2002, supplied 36 per cent, falling back in 2003 and 2006 because of high gas prices, but climbing to a record 39 per cent share in 2007, and then to 46 per cent in 2010. In the last two years, with high gas prices and increased nuclear availability, the share has fallen and in 2012 it was 27 per cent, its lowest level since 1997. In recent years, there has been high growth in the share of non-thermal renewables (including hydro and wind). Between 1970 and 2005, nonthermal renewables' share of electricity supplied was between one and two per cent each year. However, since then, driven by a large expansion in wind generation capacity, this has increased each year (except for 2010, due to especially low rainfall reducing hydro output), to stand at 7.5 per cent of electricity supplied in 2012.²

5.1.20 A more detailed examination of historical electricity statistics was published as an article in the September 2002 issue of Energy Trends. This looked at trends in the generation, supply and consumption of electricity over the last 80 years. The updated data set on which the article is based is available on the DECC energy statistics website at:

www.gov.uk/government/organisations/department-of-energy-climate-change/series/electricity-statistics The original article is available on request from DECC.

5.1.21 Analysis of electricity statistics from 1948 to 2008 can also be found in chapter 5 of the DUKES: 60th anniversary article, available at:

www.gov.uk/government/organisations/department-of-energy-climate-change/series/digest-of-uk-energy-statistics-dukes

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² Thermal renewables, such as biomass, landfill gas, sewage gas, wastes and co-firing with fossil fuels, is included in conventional thermal.

	Total	Coal	Oil (1)	Natural		Electricity		Coke	Other	Shannon-Weiner
	all		, ,	gas (2)	Nuclear	Natural flow	Wind (3)	and	fuels (4)	measure of
	fuels					hydro (3)		breeze		diversity
1970	63.84	43.07	13.27	0.11	7.00	0.39	_	_	_	0.88
1971	66.46	42.42	15.63	0.64	7.37	0.29	_	0.11	_	0.95
1972	68.37	38.47	20.13	1.61	7.87	0.29	_	-	_	1.05
1973	70.93	44.30	18.09	0.64	7.46	0.33	_	0.11	-	0.96
1974	69.01	38.71	18.41	2.46	8.97	0.35	_	0.11	-	1.10
1975	66.25	41.85	13.70	2.14	8.12	0.33	-	0.11	-	1.02
1976	66.97	44.49	10.92	1.61	9.56	0.39	-	-	-	0.96
1977	69.32	45.71	11.35	1.28	10.64	0.34	-	-	-	0.96
1978	69.64	46.05	12.31	0.86	9.96	0.35	-	0.11	-	0.95
1979	72.80	50.10	11.45	0.54	10.23	0.37	-	0.11	-	0.90
1980	69.46	51.01	7.67	0.42	9.91	0.34	-	0.11	-	0.81
1981	65.98	49.64	5.46	0.21	10.18	0.38	-	0.11	-	0.77
1982	65.98	46.75	6.64	0.21	11.88	0.39	-	0.11	-	0.84
1983	66.37	47.16	5.14	0.21	13.47	0.39	-	-	-	0.81
1984	69.18	31.07	22.80	0.42	14.50	0.39	-	-	-	1.11
1985	71.54	42.81	11.35	0.54	16.50	0.34	-	-	-	1.00
1986	70.46	47.91	6.51	0.18	15.44	0.41	-	-	-	0.89
1987 (5)	70.50	50.37	5.14	0.19	14.44	0.36	-	-		0.80
1987 (5)	74.31	51.58	6.30	0.91	14.44	0.36	-	-	0.72	0.91
1988	75.57	49.83	7.01	0.97	16.57	0.42	-	-	0.77	0.96
1989	75.27	48.59	7.11	0.54	17.74	0.41	-	-	0.88	0.96
1990	76.34	49.84	8.40	0.56	16.26	0.44	-	-	0.84	0.97
1991	76.87	49.98	7.56	0.57	17.43	0.39	-	-	0.94	0.96
1992	76.57	46.94	8.07	1.54	18.45	0.46	-	-	1.09	1.05
1993	75.40	39.61	5.78	7.04	21.58	0.37	-	-	1.02	1.20
1994	74.01	37.10	4.11	10.10	21.20	0.44	-	-	1.06	1.23
1995	77.15	36.29	4.15	13.27	21.25	0.40	-	-	1.79	1.28
1996	79.56	33.67	3.87	17.37	22.18	0.29	0.04	-	2.14	1.32
1997	76.76	28.30	2.01	21.74	21.98	0.38	0.06	-	2.29	1.32
1998	81.14	29.94	1.69	23.02	23.44	0.44	0.08	-	2.52	1.31
1999	79.72	25.51	1.54	27.13	22.22	0.46	0.07	-	2.79	1.32
2000	81.21	28.67	1.55	27.91	19.64	0.44	0.08	-	2.93	1.31
2001	84.01	31.61	1.42	26.87	20.77	0.35	0.08	-	2.91	1.29
2002	83.00	29.63	1.29	28.33	20.10	0.41	0.11	-	3.13	1.30
2003	85.95	32.54	1.19	27.85	20.04	0.28	0.11	-	3.93	1.30
2004	84.57	31.31	1.10	29.25	18.16	0.42	0.17	-	4.15	1.31
2005	86.68	32.58	1.31	28.52	18.37	0.42	0.25	-	5.23	1.34
2006	87.06	35.94	1.43	26.78	17.13	0.39	0.36	-	5.02	1.33
2007	84.28	32.92	1.16	30.60	14.04	0.44	0.46	-	4.68	1.31
2008	81.55r	29.96	1.58	32.40	11.91	0.44	0.61	-	4.64	1.32
2009	78.50r	24.66	1.51	30.90r	15.23	0.45	0.80	-	4.94	1.38
2010	79.17r	25.56	1.18	32.12	13.93	0.31	0.88	-	5.19r	1.35
2011	76.38r	26.03	0.78r	26.41r	15.63	0.49	1.36r	-	5.69r	1.40
2012	77.37	34.33	0.78	18.41	15.21	0.45	1.79	-	6.40	1.39

⁽¹⁾ Includes oil used in gas turbine and diesel plant or for lighting up coal fired boilers, Orimulsion (until 1997), and refinery gas (from 1987).

⁽²⁾ Includes colliery methane from 1987 onwards.

⁽³⁾ Fuel inputs have been calculated on an energy supplied basis - see explanatory notes at Chapter 5, paragraph 5.74.

⁽⁴⁾ Main fuels included are coke oven gas, blast furnace gas, waste products from chemical processes, refuse derived fuels and other renewable sources.

⁽⁵⁾ Data for all generating companies are only available from 1987 onwards, and the figures for 1987 to 1989 include a high degree of estimation. Before 1987 the data are for major power producers, transport undertakings and industrial hydro and nuclear stations only.

5.1.2 Electricity supply, availability and consumption

TWh Electricity consumption Fuel Total Final users (5) Electricity Purchases Net Electricity Losses in supplied from other imports available transmission industries Industrial Domestic Other Total (net) producers (1)etc (2) (3)1970 215.76 0.19 0.55 216.50 17.50 199.00 6.59 72.99 77.04 42.38 192.41 1971 222.92 0.53 0.12 19.01 204.56 73.43 43.86 197.96 223.57 6.60 80.67 1972 229.45 0.53 0.48 230.46 18.91 211.55 73.16 86.89 45.13 205.18 6.37 1973 245.42 0.59 0.06 246.07 19.59 226.48 6.67 80.07 91.30 48.44 219.81 1974 237.21 0.05 237.86 18.22 219.64 75.81 45.08 213.52 0.60 6.12 92.63 1975 237.76 0.70 0.08 238.54 19.47 219.07 6.29 75.36 89.21 48.21 212.78 1976 240.22 0.61 -0.10 240.73 18.73 222.00 6.39 80.84 85.12 49.65 215.61 0.74 247.56 20.76 6.41 220.39 1977 246.82 226.80 82.06 85.90 52.43 1978 252.65 0.66 -0.08 253.23 21.81 231.42 6.52 84.00 85.80 55.10 224.90 264.34 0.63 264.97 22.97 242.00 6.78 87.55 89.67 58.00 235.22 1979 1980 252.02 0.61 252.63 21.53 231.11 6.86 79.73 86.11 58.41 224.25 1981 246.60 0.74 20.13 227.21 6.86 77.03 84.44 58.88 220.35 247.34 1982 242.48 0.82 243.30 20.48 222.82 6.81 73.91 82.79 59.31 216.01 1983 246.15 1.15 247.30 21.21 226.09 6.69 74.17 82.95 62.28 219.40 1984 251.47 0.55 252.02 21.06 230.96 6.64 78.64 83.90 61.78 224.32 1985 263.56 0.92 264.48 22.63 241.85 7.76 79.53 88.23 66.33 234.09 1986(4) 4.26 272.17 22.83 249.34 91.83 69.68 241.66 266.81 1.10 7.68 80.15 1986(4) 88.80 250.31 278.48 4.26 282.73 22.91 259.82 9.51 91.83 69.68 1987 11.64 268.38 93.25 279.71 291.34 22.96 9.49 93.14 72.50 258.89 97.14 1988 285.71 12.14 297.85 23.35 274.50 9.16 92.36 75.84 265.34 12.63 291.75 304.38 24.98 279.40 99.42 92.27 78.71 270.40 1989 9.00 1990 297.50 11.91 309.41 24.99 284.42 9.99 100.64 93.79 80.00 274.43 16.41 317.06 26.22 290.84 99.57 98.10 83.38 281.05 1991 300.65 9.79 16.69 23.79 291.45 95.28 281.47 1992 298.55 315.24 9.98 99.48 86.71 286.13 22.84 295.75 1993 301.87 16.72 318.59 9.62 96.84 100.46 88.83 1994 306.94 16.89 323.83 31.00 292.83 7.52 96.12 101.41 87.78 285.31 1995 317.63 16.61 334.24 30.32 303.92 8.07 101.78 102.21 91.86 295.85 1996 332.36 16.76 349.11 29.34 319.78 9.21 107.63 107.51 95.42 310.57 1997 331.63 16.57 348.20 27.14 321.07 8.62 108.10 104.46 99.88 312.44 1998 342.70 12.47 355.17 29.82 325.35 8.41 108.44 109.41 99.09 316.94 347.67 14.24 361.92 29.86 332.05 112.25 110.31 101.46 324.02 1999 8.04 2000 357.27 14.17 371.44 31.14 340.30 9.70 115.29 111.84 103.47 330.59 2001 364.17 10.40 374.57 32.07 342.50 8.63 112.50 115.34 106.05 333.88 2002 366.66 8.41 375.07 30.96 344.11 10.06 110.82 103.22 334.05 120.01 2003 376.53 2.16 32.07 346.62 109.93 103.94 336.87 378.69 9.75 123.00 2004 373.40 7.49 380.89 33.18 347.71 8.14 112.09 124.20 103.28 339.57 2005 376.78 8.32 385.10 27.90 357.20 7.85 116.70 125.71 106.94 349.35 2006 373.86 7.52 381.38 27.52 353.86 8.00 115.53 124.70 105.63 345.87 2007 5.22 27.83 351.45 9.19 113.41 123.08 105.78 342.26 374.06 379.28 2008 11.02 28.08r 350.10 7.71 114.72 119.80 107.87 342.39 367.16r 378.18r 2009 355.34r 2.86 358.20r 28.18r 330.02 7.67 100.34 118.54 103.47 322.35 2010 361.44r 2.66 364.10r 26.60r 337.50r 8.25 104.94 118.84r 105.47r 329.25r 2011 347.18r 6.22 353.41r 27.49r 325.92r 7.68r 102.72r 111.60r 103.92r 318.24r 2012 341.86 12.05 353.90 28.46 325.44 7.37 98.32 114.70 105.06 318.07

⁽¹⁾ Net transfers between the Irish Republic and Northern Ireland (ceased in 1981 and recommenced in 1996), between France and England (from 1986), the Netherlands and England (from 2011) and the Irish Republic and Wales (from 2012)

⁽²⁾ Losses on the public distribution system (grid system and local networks) and other differences between data collected on sales and data collected on availability.

⁽³⁾ Public administration, transport, agricultural and commercial sectors.

⁽⁴⁾ Data for all generating companies are only available from 1986 onwards. Before 1986 the data are for major power producers, transport undertakings and industrial hydro and nuclear stations only.

⁽⁵⁾ Industry includes some iron and steel consumption that is counted as energy industry use in the main DUKES tables

5.1.3 Electricity generated and supplied

GWh

				Ма	ijor power	producer	s (1)				
	Electricity	Electricity_			ty supplie		. ,			Electricity used	Electricity
	generated	used on	lotal	Conventional	CCGT	Nuclear	,	/dro	Wind	in pumping	Supplied
		works		thermal and			Natural flow	Pumped storage		at pumped storage	(net) <i>(4)</i>
				other (3)			IIOW	Sidiage		stations	(4)
				· · · · · · · · · · · · · · · · · · ·						0.0	
1970	232,378	16,429	215,949	188,175	-	22,805	3,846	1,123	-	1,487	214,462
1971	240,080	17,143	222,937	195,181	-	24,013	2,835	908	_	1,209	221,728
1972	246,843	17,439	229,404	200,048	-	25,639	2,847	870	-	1,184	228,220
1973	263,140	18,157	244,983	216,796	-	24,310	3,214	663	-	882	244,101
1974	254,688	17,763	236,925	203,478	-	29,232	3,520	695	_	896	236,029
1975	255,084	17,136	237,948	207,159	-	26,463	3,186	1,140	_	1,430	236,518
1976	258,656	17,962	240,694	205,048	-	31,153	3,128	1,365	-	1,729	238,965
1977	265,649	18,468	247,181	207,904	-	34,660	3,320	1,297	_	1,608	245,573
1978	270,677	17,907	252,770	215,761	-	32,462	3,378	1,169	_	1,429	251,341
1979	283,186	18,744	264,442	226,329	-	33,335	3,617	1,161		1,424	263,018
									-		
1980	269,945	17,765	252,180	215,418	-	32,291	3,298	1,173	_	1,453	250,727
1981	263,658	16,983	246,675	208,589	-	33,191	3,906	989	_	1,196	245,479
1982	259,410	16,940	242,470	198,822	-	38,721	3,873	1,054	-	1,272	241,198
1983	264,589	17,380	247,209	197,600	_	43,911	3,882	1,816	_	2,337	244,872
1984	270,471	17,643	252,828	200,240	_	47,256	3,358	1,974	_	2,613	250,215
1985	284,712	18,903	265,809	205,906	_	53,767	3,435	2,701	_	3,494	262,315
1986	287,330	18,819	268,511	210,452	_	51,843	4,087	2,129	_	2,993	265,518
1987	287,701	18,740	268,961	215,290	_	48,205	3,460	2,006	_	2,804	266,157
1988	293,100	19,341	273,759	211,932	_	55,642	4,160	2,025	_	2,888	270,871
1989	297,890	19,315	278,575	209,169	_	63,602	3,992	1,812		2,572	276,003
.000		,	,			,	-,	.,		_,	_: 0,000
1990	302,936	18,632	284,304	219,364	_	58,664	4,384	1,892	_	2,626	281,678
1991	305,704	19,142	286,562	218,260	309	62,761	3,767	1,465	_	2,109	284,453
1992	303,715	19,157	284,558	206,245	2,964	69,135	4,579	1,635	_	2,257	282,301
1993	305,433	18,170	287,264	178,773	22,611	80,979	3,513	1,388	_	1,948	285,316
1994	307,476	16,696				79,962	4,265		_	2,051	
1994			290,780	168,321	36,815			1,417	-		288,729
	315,510	16,510	299,000	164,324	48,525	80,598	4,051	1,502	-	2,282	296,718
1996	326,235	14,967	311,268	155,574	65,604	85,820	2,763	1,507	-	2,430	308,838
1997	324,133	15,411	308,722	127,961	86,682	89,341	3,299	1,439	-	2,477	306,245
1998 1999	333,764 336,608	16,140 15,461	317,624	128,235	93,005 112,768	90,590 87,672	4,225	1,569	-	2,594 3,774	315,030
1999	330,000	15,461	321,147	113,493	112,700	01,012	4,409	2,804		3,774	317,373
2000	244 702	44.050	200 024	405 400	110 110	70.004	4.040	0.000		2 400	202 222
2000		14,952	326,831	125,468	116,110	78,334	4,316	2,603	-	3,499	323,332
2001	353,057	16,066	336,991	127,119	121,344	82,985	3,203	2,340	-	3,210	333,781
2002		15,746	338,248	128,795	121,886	81,090	3,914	2,562	-	3,463	334,785
2003	362,600	16,747	345,853	140,196	118,546	81,911	2,559	2,641	-	3,546	342,308
2004		15,582	342,732	133,607	128,983	73,682	3,901	2,559	-	3,497	339,235
2005	362,212	16,265	345,947	135,999	128,179	75,173	3,821	2,776	-	3,707	342,240
2006	361,232	17,031	344,201	151,866	115,695	69,237	3,680	3,722	-	4,918	339,283
2007	361,317	16,090	345,227	138,793	137,657	57,249	4,114	3,846	3,569	5,071	340,156
2008	355,209	14,662r	340,547	121,816	157,417	47,673	4,209	4,075	5,357	5,371	335,175
2009	342,374	14,750	327,624	101,100	148,907	62,762	4,279	3,672	6,904	4,843	322,781
2010	347,785r	14,403	333,382r	105,148	157,818	56,442	2,694r	3,139	8,141r	4,212	329,170r
2011	332,312	14,480	317,832	105,359	129,669	62,655	4,578	2,895	12,675	3,843	313,988
2012	328,106	15,881	312,224	140,073	84,207	63,949	4,155	2,956	16,884	3,978	308,247

⁽¹⁾ From 2007, major wind farm companies are included under Major Power Producers, see paragraph 5.67 in the main Digest, previously all wind was covered under other generatots.
(2) Electricity generated less electricity used on works.

⁽³⁾ Includes electricity supplied by gas turbines and oil engines. From 1988 also includes electricity produced by plants using thermal renewable sources.

5.1.3 Electricity generated and supplied

GWh

	Other gener	rators (1)				All genera	ating comp	oanies			
	Electricity suppli	ed (gross)	(2)		Electricity	supplied (g	gross)				
Total	Conventional	CCGT	Non-	Total	Conventional	CCGT	Nuclear	Non-	Pumped	Electricity	
	thermal		thermal		thermal			thermal	storage	supplied	
	and		renewables		and			renewables		(net) (4)	
	other (3)		(5)		other (3)			(5)			
15,674	14,996	-	678	231,623	203,171	-	22,805	4,524	1,123	230,136	1970
15,388	14,837	-	551	238,325	210,018	-	24,013	3,386	908	237,116	1971
15,746	15,175	-	571	245,150	215,223	-	25,639	3,418	870	243,966	1972
17,655	17,008	-	647	262,638	233,804	_	24,310	3,861	663	261,756	1973
17,222	16,660	-	562	254,147	220,138	-	29,232	4,082	695	253,251	1974
15,766	15,175	-	591	253,714	222,334	-	26,463	3,777	1,140	252,284	1975
17,013	16,414	-	599	257,707	221,462	-	31,153	3,727	1,365	255,978	1976
16,434	15,848	-	586	263,615	223,752	_	34,660	3,906	1,297	262,007	1977
16,034	15,387	_	647	268,804	231,148	_	32,462	4,025	1,169	267,375	1978
15,720	15,062	-	658	280,162	241,391	-	33,335	4,275	1,161	278,738	1979
14,132	13,509	-	623	266,312	228,927	-	32,291	3,921	1,173	264,859	1980
13,264	12,801	-	463	259,939	221,390	-	33,191	4,369	989	258,743	1981
12,613	11,943	-	670	255,083	210,765	-	38,721	4,543	1,054	253,811	1982
12,152	11,486	-	666	259,361	209,086	-	43,911	4,548	1,816	257,024	1983
11,319	10,685	-	634	264,147	210,925	-	47,256	3,992	1,974	261,534	1984
12,112	11,467	-	645	277,921	217,373	-	53,767	4,080	2,701	274,427	1985
12,957	12,278	-	679	281,468	222,730	-	51,843	4,766	2,129	278,475	1986
13,551	12,831	-	720	282,512	228,121	-	48,205	4,180	2,006	279,708	1987
14,840	14,085	-	755	288,599	226,017	-	55,642	4,915	2,025	285,711	1988
15,747	15,007	-	740	294,322	224,176	-	63,602	4,732	1,812	291,750	1989
15,824	14,729	280	815	300,128	234,093	280	58,664	5,199	1,892	297,502	1990
16,202	15,056	298	848	300,126	234,093	607	62,761	4,615	1,465	300,655	1990
											1992
16,246	14,987	394	865	300,804	221,232	3,358	69,135	5,444	1,635	298,547	
16,552	14,979	584	989	303,816	193,752	23,195	80,979	4,502	1,388	301,868	1993
18,207	16,356	738	1,113	308,987	184,677	37,553	79,962	5,378	1,417	306,936	1994
20,909	18,851	933	1,125	319,909	183,175	49,458	80,598	5,176	1,502	317,627	1995
23,519	19,091	3,358	1,070	334,786	174,664	68,962	85,820	3,833	1,507	332,356	1996
25,384	19,703	4,192	1,489	334,107	147,665	90,874	89,341	4,788	1,439	331,630	1997
27,669	20,766	5,157	1,746	345,293	149,001	98,162	90,590	5,971	1,569	342,699	1998
30,299	21,769	6,785	1,745	351,446	135,263	119,553	87,672	6,154	2,804	347,672	1999
33,934	21,926	10,318	1,690	360,765	147,394	126,428	78,334	6,006	2,603	357,266	2000
30,391	20,066	8,531	1,794	367,382	147,185	129,875	82,985	4,997	2,340	364,173	2001
31,873	19,716	10,049	2,108	370,120	148,511	131,935	81,090	6,022	2,562	366,657	2002
34,220	21,942	10,336	1,941	380,073	162,138	128,882	81,911	4,500	2,641	376,528	2003
34,165	20,046	11,260	2,859	376,896	153,653	140,243	73,682	6,760	2,559	373,399	2004
34,539	19,494	11,204	3,842	380,486	155,493	139,382	75,173	7,662	2,776	376,780	2005
34,578	18,598	10,859	5,121	378,779	170,464	126,554	69,237	8,802	3,722	373,861	2006
33,908	19,801	11,471	2,637	379,136	158,594	149,127	57,249	10,320	3,846	374,064	2007
31,985r	18,371r	10,947	2,668r	372,532r	140,186r	168,364	47,673	12,234r	4,075	367,161r	2008
32,558r	18,952r	10,251	3,354r	360,182r	120,052r	159,159	62,762	14,537r	3,672	355,339r	2009
,	• • •	, -	, -	,	,	,	,	, "	• • • •	,	
32,269r	19,248r	10,079	2,941r	365,651r	124,396r	167,898	56,442	13,776r	3,139	361,439r	2010
33,195r	19,007r	10,033r	4,155r	351,026r	124,366r	139,702r	62,655	21,408r	2,895	347,183r	2011
33,609	18,750	9,873	4,986	345,834	158,824	94,080	63,949	26,025	2,956	341,856	2012

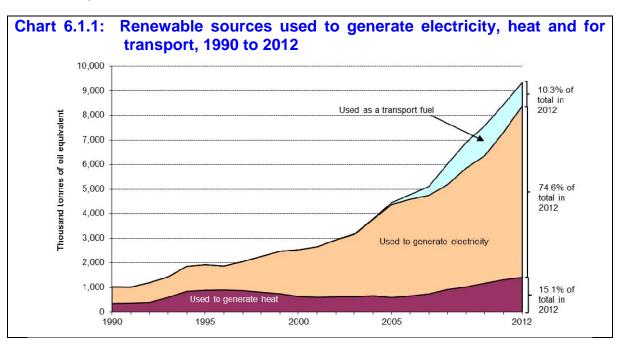
⁽⁴⁾ Electricity supplied (gross) less electricity used in pumping at pumped storage stations.(5) Natural flow hydro, wind, wave and solar photovoltaics.

Chapter 6: Long term trends

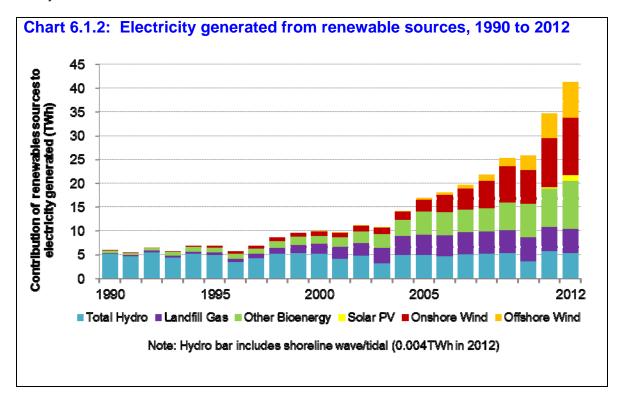
Renewables

Renewables sources used to generate electricity, heat and for transport; and electricity generated from renewable sources (Table 6.1.1)

- 6.1.1 This table extends the series shown in Tables 6.4 and 6.6 of Chapter 6 of the main Digest back to 1990, the earliest year for which comprehensive data on renewables and wastes are available.
- 6.1.2 Between 1990 and 1996 the volume of renewables used to generate electricity grew at an average rate of $6\frac{1}{2}$ per cent a year. After 1996 the rate of increase quickened and over the seven years to 2003 it averaged $14\frac{1}{2}$ per cent a year. Between 2003 and 2012 it fell back slightly to an average of 12 per cent a year. The rate of increase in the volume of renewables used is influenced by how fuels are used. Renewable sources more than doubled between 1990 and 1998, doubling again between 1998 and 2004, with a further doubling between 2004 and 2012. Use of primary sources (mainly wind and hydro) are assumed to be equal to the electricity produced whereas biomass sources lose energy during their transformation into electricity. As a result in years where biomass was increasing, the volume of fuel used would increase by more than in years when wind increased.
- 6.1.3 Chart 6.1.1 shows the amount of primary renewable sources used for generating electricity, for heat, and as a transport fuel, whilst chart 6.1.2 shows how much electricity was generated from 6 main renewable categories.
- 6.1.4 Since 2000, the main contributors to the growth in electricity generated from renewables have been wind (+29 per cent a year on average), small scale hydro schemes (+10 per cent a year), landfill gas (+7 per cent a year), energy from waste (+9 per cent a year), and sewage sludge digestion (+6 per cent a year). Co-firing of biomass with fossil fuels was zero until 2002, but more than doubled each year between 2002 and 2005 before levelling off in 2006 and despite a decline until 2008, co-firing exceeded the 2005 levels again in 2011. When combined, electricity generated from all forms of bioenergy increased by an average of 12 per cent a year since 2000. Between 2000 and 2012 the rate of growth in electricity generated from all renewables averaged 13 per cent a year, which incorporates a smaller (2 per cent) rise between 2009 and 2010, reflecting lower rainfall and wind speeds, a larger (34 per cent) increase between 2010 and 2011, and a 19 per cent increase in the most recent year.



- 6.1.5 The use of renewables to generate heat reached a peak in 1996 having more than doubled over the previous 6 years. Over the next five years the use of renewables for heat generation declined by one third, mainly because the use of industrial wood declined by over one-half due to the introduction of more stringent emission controls. More recently there has been an increase in renewable heat, due to policy incentives, and since 2000 it increased at an average annual rate of 7 per cent. Since 2008 there has been more renewable heat than in the previous local peak during 1996.
- 6.1.6 Liquid biofuels for transport were first included in the energy mix through blending with fossil fuels in 2002. There was a steady increase until 2010, when over 1.2 million tonnes of oil equivalent was used. However falls in biodiesel use reduced the total contribution by one-fifth during the latest two years.



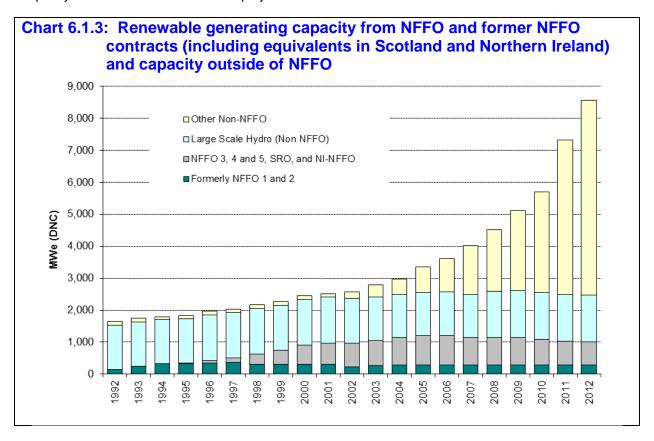
Renewable orders and operational capacity (Table 6.1.2)

6.1.7 Table 6.1.2 brings together the information on contracted and live projects and their capacities contracted within the Non Fossil Fuel Orders in England, Wales and Northern Ireland and under the Scottish Renewables Orders. This information is no longer shown in the printed and bound Digest.

(a) Non Fossil Fuel Obligation (NFFO)

- 6.1.8 The 1989 Electricity Act empowered the Secretary of State to make orders requiring the Regional Electricity Companies in England and Wales (the RECs) to secure specified amounts of electricity from renewable energy sources.
- 6.1.9 Five NFFO Orders were made, of which the first in 1990 was set for a total of 102 MW Declared Net Capacity (DNC). This first order actually resulted in contracts for 75 projects for 152 MW DNC and provided a premium price for the electricity produced which was funded from a levy on electricity sales in England and Wales. (The bulk of this levy was used to support electricity from nuclear stations).
- 6.1.10 The second Order, made in late 1991, was set for 457 MW DNC. This resulted in 122 separate contracts (for a total of 472 MW DNC) between the generators and the Non-Fossil Purchasing Agency (NFPA), which acted on behalf of the RECs. For landfill gas, sewage gas and waste-derived generation contracts were awarded at around 6p/kWh, while for wind-based generation a price of 11p/kWh was established. These prices reflected the limited period for the recovery of capital costs.
- 6.1.11 The third Order covers the period 1995 to 2014; this was for 627 MW DNC of contracted capacity at an average price of 4.35 p/kWh. The lower bid prices reflect the longer-term contracts,

which are now available together with further developments that have led to improvements in the technologies. Taking into account factors such as the failure to gain planning permission, it is estimated that around half the contracted DNC are likely to go forward for commissioning – the actual capacity at the end of 2012 for these projects was 254 MW DNC.



- 6.1.12 The fourth Order was announced in February 1997. Contracts have been let to 195 projects with a total DNC of 843 MW, at an average price of 3.46 p/kWh. In the fifth and largest Order, which was announced in September 1998, contracts have been let to 261 projects with a total DNC of 1,177.2 MW, at an average price of 2.71 p/kWh.
- 6.1.13 Since the expiry of the NFFO 1 and 2 contracts on 31 December 1998, these projects are no longer included in the monitoring of NFFO Orders and DECC no longer receives any status/output data on them from the NFPA. For some of these projects operational data have been obtained from other sources, while for the others estimates have been made based on output in 1998. From 2002 another source of information became available in the form of the Renewables Obligation data. This enabled Ricardo-AEA to identify which former NFFO 1 and 2 schemes were applying for ROCs and therefore were still running. Of the 108 NFFO 1 and 2 projects identified in this way as still live, 39 were contracted under the first order and 69 under the second order. It is appreciated that there may be some ex NFFO 1 and 2 schemes that are continuing to operate but whose output is too small to qualify for ROCs or which may need to re-furbish in order to qualify for ROCs. To that extent the estimates of NFFO capacity may be an underestimate.
- 6.1.14 As at the end of December 2012, 68 projects in the third Order were operational, with total capacities of 254 MW DNC. There were also 78 schemes with a capacity of 230 MW DNC commissioned from the fourth Order projects and 73 schemes totalling 164 MW DNC from the fifth Order. Table 6.1.2 sets out the technologies and capacities of schemes in all five Orders.

(b) Scottish Renewable Order (SRO)

- 6.1.15 In Scotland, the first Renewables Order was made in 1994 for approximately 76 MW DNC of new capacity and comprising 30 schemes. At the end of December 2012, 12 schemes were commissioned with a capacity of 21 MW DNC.
- 6.1.16 A second SRO was launched in 1995 and was made in March 1997 for 114 MW DNC of new capacity comprising 26 schemes. Under this Order, at the end of 2012 there were 9 commissioned schemes with a capacity of 34 MW DNC.

6.1.17 A third SRO was laid before Parliament in February 1999 for 145 MW DNC of new capacity comprising 53 schemes. Under this Order, at the end of 2012 there were 12 commissioned schemes with a capacity 19 MW DNC. Table 6.1.2 sets out the technologies and capacities of schemes in all three Scottish Orders.

(c) Northern Ireland Non Fossil Fuel Obligation (NI NFFO)

- 6.1.18 In Northern Ireland, a first Order was made in March 1994 for approximately 16 MW DNC comprising 20 schemes. The contracted schemes were spread throughout Northern Ireland and were divided into three technology bands. During 2010 all 15 schemes that had been operating in 2009 under the Obligation became out of contract, and have remained so since then.
- 6.1.19 A second NI Order was made in 1996 for 10 schemes, totalling 16 MW DNC. At the end of 2012, 5 schemes were commissioned with a capacity of 3 MW DNC.

(d) Summary

- 6.1.20 In 1990, the first year of NFFO, projects contracted within NFFO accounted for about 32 per cent of the total declared net capacity (excluding large-scale hydro). This percentage rose to a peak in 2001 of 91 per cent. Following the introduction of the Renewables Obligation it fell back as new capacity eligible for the RO outweighed the growth in NFFO 3, 4 and 5 and SRO and NI-NFFO projects, so that the NFFO capacity proportion (excluding large scale hydro) had more than halved, to account for 43 per cent in 2007, and has continued to fall, to 14 per cent during 2012.
- 6.1.21 The DECC Energy Statistics Team are proposing to discontinue updating table 6.1.2 and paragraphs 6.1.7 onwards in future years of this release. Users with specific requirements for this data should email the contact shown below if they still require this information.

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6.1.1 Renewable sources used to generate electricity and heat; electricity generated from renewable sources

	Wind	(1)	Nave and	Solar	Hyd	ro (1)				Bioenerg	ly				Total	Wastes
	Onshore O	ffshore	Tidal (1)	photo-	Small	Large	Landfill	Sewage	Energy	Animal	Plant	Anaerobic	Co-firing	Total		(7)
				voltaics	scale	scale (2)	gas	sludge	from waste	Biomass	Biomass	Digestion	with fossil	bioenergy		
							ŭ	digestion	combustion	(4)	(5)	(6)	fuels	0,		
								. 3	(3)	()	(-)	(-7				
Used t	o generate e	lectricit	tv						(-)							
1990	0.8	-		-	10.9	436.8	45.6	103.6	69.8	-	-	0.0	-	219.0	667.5	41.0
1991	0.7	-	-	-	12.2	385.4	68.2	107.6	70.5	0.5	-	0.1	-	246.9	645.2	41.4
1992	2.8	-	-	-	12.8	454.1	123.6	107.6	85.9	17.4	-	0.2	-	334.6	804.4	50.4
1993	18.7	-	-	-	13.6	356.2	146.6	123.8	119.1	52.3	-	0.2	-	442.0	830.5	76.4
1994	29.5	-	-	-	13.6	424.3	169.5	118.3	192.0	70.8	-	0.1	-	550.8	1,018.3	156.3
1995	33.7	-	-	-	14.2	401.7	184.3	134.6	198.6	71.2	-	0.1	-	588.7	1,038.4	178.6
1996	41.9	-	-	-	10.1	281.6	232.1	134.6	205.3	67.0	-	0.1	-	639.1	972.7	184.8
1997	57.4	-	-	-	14.1	344.4	301.1	133.7	258.2	67.8	-	0.0	-	760.8	1,176.6	236.0
1998	75.4	-	-	-	17.7	422.3	388.8	126.5	346.5	76.2	0.1	-	-	938.0	1,453.4	302.8
1999	73.1	-	-	-	17.8	441.0	558.4	134.6	345.0	156.8	0.2	-	-	1,195.0	1,726.9	272.5
2000	81.3	0.1	-	0.1	18.4	418.8	717.6	120.4	350.1	182.5	10.8	-	-	1,381.3	1,900.0	253.3
2001	82.5	0.4	0.0	0.2	18.1	330.7	822.2	119.0	387.1	205.3	80.7	-	-	1,614.4	2,046.3	266.2
2002	107.6	0.4	0.0	0.2	17.5	394.2	878.5	120.6	420.2	184.4	92.4	-	94.0	1,790.0	2,309.9	286.1
2003	109.7	0.8	0.0	0.3	12.9	256.9	1,074.5	129.3	445.8	169.4	136.7	3.0	197.3	2,156.1	2,536.7	273.8
2004	149.3	17.1	0.0	0.3	24.3	392.2	1,313.1	144.3	429.5	179.4	123.1	2.9	335.1	2,527.4	3,110.6	263.9
2005	215.1	34.6	0.0	0.7	38.2	385.0	1,407.2	152.8	426.3	158.9	129.4	2.6	830.7	3,107.8	3,781.4	262.0
2006	307.3	56.0	0.0	0.9	41.1	353.9	1,451.1	145.9	479.0	144.8	122.9	3.8	829.0	3,176.4	3,935.6	293.7
2007	386.2	67.3	0.0	1.2	45.0	391.6	1,533.9	161.9	486.8	217.6	137.8	4.9	576.4	3,119.2	4,010.4	298.3
2008	497.7	112.2	0.0	1.5	47.7	395.5	1,550.9	180.0	506.8	260.4	189.5	5.1	516.7	3,209.4	4,263.9	310.3
2009	649.5	150.8	0.1	1.7	49.6	401.0	1,616.7	198.0	624.5	232.0	367.3	14.3	533.0	3,585.7	4,838.4	365.2
2010	614.0	261.7	0.2	3.4	41.6	265.9	1,652.0	228.6	659.0	238.9	412.3	49.6	765.0	4,005.4	5,192.0	385.1
2011	892.9	440.7	0.1	21.0	60.3	429.0	1,670.1	250.5	717.3	224.0	526.9	91.1	764.6	4,244.6	6,088.5	418.6
2012	1,042.2	641.7	0.3	102.1	56.2	398.2	1,690.3	236.0	959.3	225.0	1,045.3	171.4	400.5	4,727.9	6,968.7	557.7

	Active					Bio	energy					Deep	Heat	Total	Wastes
	solar	Landfill		Sewage	Wood	Wood	Animal	Plant	Anaerobic	Energy	Total	geo-	pumps		(12)
	heating	gas		sludge	combus-	combus-	Biomass	Biomass	Digestion	rom waste	bioenergy	thermal	(11)		
				digestion	tion -	tion -	(8)	(9)	(10)	ombustion					
				-	domestic	industrial									
Used to															
1990	6.4	34.2	-	34.6	174.1	-	-	71.7	0.2	31.1	345.8	0.8	-	353.1	41.1
1991	6.8	36.3	-	43.5	174.1	-	-	71.7	0.2	33.5	359.3	0.8	-	366.9	42.9
1992	7.1	31.5	-	43.5	204.2	-	-	71.7	0.3	30.8	381.9	8.0	-	389.9	49.1
1993	7.4	15.0	-	34.0	204.2	236.8	-	71.7	0.3	28.2	590.1	8.0	-	598.3	53.6
1994	7.7	18.9	-	52.1	204.2	455.1	-	71.7	0.3	29.5	831.8	0.8	-	840.3	60.6
1995	8.1	15.1	-	58.5	204.2	498.1	-	71.7	0.3	30.5	878.4	0.8	-	887.3	68.3
1996	8.7	16.6	-	58.5	204.2	505.5	-	71.7	0.3	31.9	888.6	0.8	-	898.1	63.1
1997	8.9	15.5	-	58.2	204.2	506.1	-	71.7	0.3	9.0	864.9	0.8	-	874.6	52.3
1998	9.1	13.6	-	54.1	204.2	436.9	-	71.7	0.3	15.2	796.0	0.8	-	805.9	49.6
1999	9.4	13.6	-	54.2	204.2	367.7	-	71.9	0.3	20.2	732.1	0.8	-	742.3	49.3
2000	11.1	13.6	-	48.3	204.2	254.2	-	71.9	0.3	24.7	617.1	0.8	-	629.0	76.4
2001	13.2	13.6	-	49.4	204.2	225.2	-	71.9	0.3	26.2	590.7	0.8	-	604.8	80.7
2002	16.1	13.6	-	53.4	204.2	225.2	-	71.9	0.3	33.7	602.4	0.8	-	619.3	92.2
2003	19.8	13.6	-	52.4	205.8	225.2	-	71.9	0.3	33.7	602.9	0.8	-	623.5	117.1
2004	24.6	13.6	-	54.8	232.4	225.2	-	71.9	2.0	33.7	633.6	0.8	-	659.0	115.7
2005	29.4	13.6	-	52.9	265.6	93.1	12.4	92.4	2.0	33.7	565.8	0.8	-	596.0	127.5
2006	36.3	13.6	-	44.1	298.8	97.0	22.9	103.0	2.0	33.7	615.1	0.8	-	652.2	111.6
2007	44.9	13.6	-	49.5	332.0	101.2	45.8	112.9	2.0	33.7	690.7	0.8	-	736.4	137.3
2008	46.8	13.6	-	49.8	316.3	220.3	40.4	193.9	2.0	31.8	868.1	0.8	2.7	918.4	153.4
2009	77.0	13.6	-	51.0	344.8	223.4	38.3	227.4	2.0	31.6	932.1	0.8	11.3	1.021.2	143.9
2010	97.5	13.6	_	57.8	379.6	255.7	40.3	270.0	4.8	25.9	1.047.7	0.8	23.6	1.169.7	135.0
2011	122.4	13.6	-	66.1	425.4	281.9	35.8	288.5	9.8	33.0	1.154.0	0.8	39.1	1.316.3	147.7
2012	153.1	13.6	-	72.1	456.3	303.3	31.5	275.1	15.1	32.2	1,199.1	0.8	56.1	1,409.2	138.6

	Solar heating	Wi	nd	Wave and	Hydro	Bioenergy	Deep	Heat	Transport	Total	Wastes
	and photovoltaics	Onshore	Offshore	Tidal			geothermal	pumps	biofuels (13)		
Total u	ise of renewable so	urces									
1990	6.4	0.8	-	-	447.7	564.8	0.8	-	-	1,020.5	82.1
1991	6.8	0.7	-	-	397.6	606.2	0.8	-	-	1,012.1	84.3
1992	7.1	2.8	-	-	467.0	716.6	0.8	-	-	1,194.3	99.6
1993	7.4	18.7	-	-	369.9	1,032.1	0.8	-	-	1,428.9	130.0
1994	7.7	29.5	-	-	438.0	1,382.6	0.8	-	-	1,858.6	217.0
1995	8.1	33.7	-	-	415.9	1,467.1	0.8	-	-	1,925.7	247.0
1996	8.7	41.9	-	-	291.7	1,527.7	0.8	-	-	1,870.8	247.9
1997	8.9	57.4	-	-	358.4	1,625.7	0.8	-	-	2,051.2	288.3
1998	9.1	75.4	-	-	440.0	1,734.0	0.8	-	-	2,259.3	352.4
1999	9.4	73.1	-	-	458.8	1,927.1	0.8	-	-	2,469.2	321.8
2000	11.2	81.3	0.1	-	437.3	1,998.4	0.8	-	-	2,529.0	329.7
2001	13.4	82.5	0.4	0.0	348.7	2,205.1	0.8	-	-	2,651.1	347.0
2002	16.3	107.6	0.4	0.0	411.7	2,392.4	0.8	-	2.4	2,931.6	378.3
2003	20.0	109.7	0.8	0.0	269.8	2,759.0	0.8	-	15.1	3,175.3	390.9
2004	24.9	149.3	17.1	0.0	416.5	3,161.0	0.8	-	16.7	3,786.3	379.6
2005	30.1	215.1	34.6	0.0	423.2	3,673.6	0.8	-	74.1	4,451.4	389.5
2006	37.2	307.3	56.0	0.0	394.9	3,791.6	0.8	-	187.8	4,775.6	405.3
2007	46.1	386.2	67.3	0.0	436.6	3,809.9	0.8	-	361.7	5,108.5	435.6
2008	48.2	497.7	112.2	0.0	443.2	4,077.5	0.8	2.7	844.5	6,026.9	463.8
2009	78.7	649.5	150.8	0.1	450.6	4,517.8	0.8	11.3	1,038.5	6,898.0	509.1
2010	101.0	614.0	261.7	0.2	307.4	5,053.0	0.8	23.6	1,217.3	7,579.0	520.1
2011	143.4	892.9	440.7	0.1	489.3	5,398.6	0.8	39.1	1,127.5	8,532.4	566.4
2012	255.3	1,042.2	641.7	0.3	454.4	5,927.0	0.8	56.1	957.8	9,335.6	696.3

6.1.1 Renewable sources used to generate electricity and heat(1); electricity generated from renewable sources (continued)

																GWII
	Wind (1)	Nave and	Solar	Hydr	o (1)				Bioenerg	y				Total	Wastes
	Onshore Off	fshore	Tidal (1)	photo-	Small	Large	Landfill	Sewage	Energy	Animal	Plant	Anaerobic	Co-firing	Total		(7)
				voltaics	scale	scale (2)	gas	sludge	from waste	Biomass	Biomass	Digestion	with fossilb	oioenergy		
							-	diaestion	combustion	(4)	(5)	(6)	fuels			
								. 3	(3)	()	1-7	1-7				
Electr	city generated	d							(-)							
1990	9	-	-	-	127	5,080	139	316	141	-	-	0	-	596	5,812	83
1991	9	-	-	-	142	4,482	208	328	150	-	1	0	-	688	5,320	88
1992	33	-	-	-	149	5,282	377	328	177	-	52	1	-	934	6,398	104
1993	217	-	-	-	159	4,143	447	378	252	-	121	1	-	1,198	5,717	165
1994	344	-	-	-	159	4,935	517	361	449	-	192	0	-	1,518	6,956	352
1995	392	-	-	0	166	4,672	562	410	471	-	198	0	-	1,642	6,872	412
1996	488	-	-	0	118	3,275	708	410	489	-	197	0	-	1,805	5,685	417
1997	667	-	-	0	164	4,005	918	408	585	-	199	0	0	2,110	6,946	483
1998	877	-	-	0	206	4,911	1,185	386	849	-	234	-	0	2,654	8,649	583
1999	850	-	-	1	207	5,128	1,703	410	856	-	459	-	1	3,429	9,616	559
2000	945	1	-	1	214	4,871	2,188	367	840	-	456	-	31	3,882	9,914	519
2001	960	5	0	2	210	3,845	2,507	363	880	-	542	-	234	4,526	9,549	528
2002	1,251	5	0	3	204	4,584	2,679	368	907	286	568	-	272	5,080	11,127	545
2003	1,276	10	0	3	150	2,987	3,276	394	965	602	525	9	402	6,174	10,600	579
2004	1,736	199	0	4	283	4,561	4,004	440	971	1,022	556	9	362	7,364	14,147	583
2005	2,501	403	0	8	444	4,478	4,290	466	964	2,533	460	8	382	9,102	16,936	578
2006	3,574	651	0	11	478	4,115	4,424	445	1,083	2,528	423	12	363	9,277	18,106	651
2007	4,491	783	0	14	523	4,554	4,677	494	1,189	585	607	15	1,757	9,325	19,690	714
2008	5,788	1,305	0	17	555	4,600	4,729	549	1,239	620	807	16	1,575	9,535	21,800	744
2009	7,553	1,754	1	20	577	4,664	4,929	604	1,509	637	1,327	43	1,625	10,674	25,243	868
2010		3,044	2	40	483	3,092	5,037	697	1,597	627	1,594	151	2,332	12,037	25,838	919
2011		5,126	1	244	701	4,989	5,092	764	1,739	615	1,749	278	2,964	13,200	34,645	1,000
2012	12,121	7,463	4	1,188	653	4,631	5,154	720	2,279	643	4,098	523	1,783	15,198	41,258	1,311

GWh

	W	ind Λ	ave and			Hydro			Bioen	ergy and was	stes			Total
	Onshore	Offshore	Tidal	Solar	Small	Large	Landfill	Sewage	Energy	Animal	Plant	Anaerobic	Total	
				photo-	scale	scale	gas	sludge	from waste	Biomass	Biomass	Digestion I	oioenergy	
				voltaics		(3)		digestion	:ombustion	(15)	(16)		and	
								•	(14)				wastes	
Declar	ed net cap	acity							, ,					
1990	4.3	-	-	-	26.3	1,084.0	16.5	72.7	30.9	-	-	0.1	120.3	1,234.8
1991	6.3	-	-	-	37.9	1,377.1	28.7	91.4	30.9	0.2	-	0.1	151.3	1,572.7
1992	21.3	-	-	-	40.3	1,383.0	51.1	91.4	44.6	12.8	-	0.1	200.0	1,644.5
1993	55.2	-	-	-	42.2	1,383.0	78.7	88.4	69.8	25.5	-	0.1	262.5	1,743.0
1994	65.7	-	-	-	42.2	1,383.0	84.9	87.1	106.8	25.5	-	0.1	304.4	1,795.3
1995	85.1	-	-	0.2	48.6	1,383.0	94.7	87.2	106.8	25.4	-	0.1	314.2	1,831.1
1996	113.0	-	-	0.3	49.1	1,405.8	145.7	87.2	135.0	25.4	-	0.1	393.4	1,961.6
1997	135.4	-	-	0.5	58.5	1,428.8	169.4	86.8	135.0	25.4	0.1	0.1	416.8	2,039.9
1998	139.4	-	-	0.6	61.6	1,413.0	220.6	89.8	182.1	63.9	0.3	-	556.7	2,171.3
1999	150.5	-	-	1.2	63.6	1,413.0	309.0	91.3	180.6	63.9	0.3	-	645.1	2,273.4
2000	175.0	1.6	0.2	2.0	66.1	1,419.0	382.6	85.3	204.0	73.7	39.3	-	784.9	2,448.7
2001	181.7	1.6	0.2	2.8	67.9	1,440.0	418.3	85.0	208.9	73.7	39.3	-	825.2	2,519.5
2002	223.4	1.6	0.2	0.7	70.3	1,388.8	439.2	96.0	217.8	76.7	58.5	-	888.1	2,573.0
2003	285.6	26.6	0.2	1.0	47.1	1,354.5	575.1	123.7	237.2	76.7	64.5	1.4	1,078.6	2,793.7
2004	340.8	51.6	0.2	1.4	51.7	1,355.9	670.9	131.9	238.5	70.3	64.8	1.5	1,178.0	2,979.6
2005	569.0	89.2	0.2	1.9	57.2	1,343.2	759.7	137.8	248.7	70.3	74.5	1.6	1,292.7	3,353.2
2006	695.0	126.7	0.2	2.4	55.5	1,361.4	795.4	143.8	257.3	70.3	107.3	3.9	1,377.9	3,619.2
2007	877.2	164.2	0.2	3.1	59.0	1,358.7	836.7	150.2	257.3	94.3	211.3	3.9	1,553.6	4,015.9
2008	1,189.3	244.4	0.2	3.8	61.5	1,456.5	828.6	153.2	267.5	94.3	210.9	7.2	1,561.5	4,517.3
2009	1,464.3	396.7	1.0	4.5	64.7	1,458.5	899.7	156.9	279.1	94.3	284.2	12.0	1,726.2	5,115.7
2010	1,703.4	559.3	1.0	16.0	67.7	1,452.9	936.6	192.7	310.7	94.3	315.1	38.1	1,887.5	5,687.7
2011	1,953.1	766.4	1.2	168.8	74.0	1,470.9	975.8	197.5	395.3	94.3	1,148.8	66.1	2,877.7	7,312.1
2012	2,481.6	1,249.0	2.7	289.9	78.0	1,470.9	962.4	198.7	430.9	94.3	1,202.7	110.0	2,999.0	8,571.1

For wind, wave, tidal and hydro, the figures represent the energy content of the electricity supplied, but for biofuels the figures represent the energy content of the fuel used.

Excluding pumped storage stations.

Biodegradable part only.

Includes electricity from poultry litter combustion, and meat & bone combustion.

Includes electricity from straw and energy crops.

Includes electricity from traw and energy crops.

figures represent the energy content of the fuel used.

Excluding pumped storage stations.

Biodegradable part only.

Includes electricity from poultry litter combustion, and meat & bone combustion.

Includes electricity from straw and energy crops.

Includes electricity from farm waste digestion and other AD

Non-biodegradable part of municipal solid waste plus waste tyres, hospital waste, and general industrial waste.

Includes heat from meat & bone combustion and sewage sludge combustion.

Includes heat from straw, energy crops and paper & packaging.

Includes heat from tram waste digestion and other non-farm AD

Includes heat from straw as a negligable contribution from heat pumps prior to 2008.

It is understood that there was a negligable contribution from heat pumps prior to 2008.

It is understood that there was a regilable contribution from heat pumps prior to 2008.

It is understood that there was the view of waste tyre combustion, hospital waste combustion, and general industrial waste combustion.

It is understood that there was a new in transport includes the use of waste tyres and hospital waste.

It is includes the use of poultry litter and meat & bone.

It is includes the use of southy litter and meat & bone.

⁽¹⁶⁾ Includes the use of straw combustion and short rotation coppice

6.1.2 Renewable orders and operational capacity

		Contracted	projects	Live proj operational December 1	ects I at 31	Live proj operational December 1	ects l at 31	Live projectional December 2	ects at 31
	Technology band	Number	Capacity		Capacity		Capacity		Capacity
England and Wales		Number	MW	Number	MW	Number	MW	Number	MW
NFFO - 1 (1990)	Hydro	26	11.85	21	10.00	21	10.00	19	8.75
	Landfill gas	25	35.50	19	30.78	19	30.78	19	30.78
	Municipal and industrial waste	4	40.63	4	40.63	4	40.63	3	37.08
	Other Sewage gas	4 7	45.48 6.45	4 6	45.48 5.98	4 6	45.48 5.98	4 6	45.48 5.98
	Wind	9	12.21	7	11.66	7	11.66	7	11.66
	Total (2)	75	152.12	61	144.53	61	144.53	58	139.73
NEEO 2 (lete 1001)		12				10			
NFFO - 2 (late 1991)	Hydro Landfill gas	28	10.86 48.45	10 26	10.46 46.39	26	10.46 46.39	10 26	10.46 46.39
	Municipal and industrial waste	10	271.48	2	31.50	2	31.50	2	31.50
	Other	4	30.15	1	12.50	1	12.50	1	12.50
	Sewage gas	19	26.86	18	19.06	18	19.06	18	19.06
	Wind	49	84.43	25	53.83	25	53.83	24	52.53
	Total (2)	122	472.23	82	173.74	82	173.74	81	172.44
NFFO - 3 (1995)	Energy crops and agricultural and forestry	3	19.06	-	-	-	-	1	8.00
	waste - gasification Energy crops and agricultural and forestry waste - other	6	103.81	1	38.50	1	38.50	2	69.50
	Hydro	15	14.48	6	9.72	7	10.08	8	11.74
	Landfill gas	42	82.07	40	78.96	42	82.07	42	82.07
	Municipal and industrial waste	20	241.87	5	75.32	6	77.42	6	77.42
	Wind - large	31	145.92	7	32.46	8	34.76	9	36.81
	Wind - small	24	19.71	7	5.38	9	7.93	9	7.93
NEEO 4 (4007)	Total	141	626.92	66	240.34	73	250.76	77	293.47
NFFO - 4 (1997)	Hydro Landfill gas	31 70	13.22 173.68	3 21	0.70 45.93	5 43	1.42 103.30	5 51	1.42 135.71
	Municipal and industrial waste - CHP	10	115.29	-	-5.35	-	-	2	14.98
	Municipal and industrial waste - fluidised bed combustion	6	125.93	-	-	-	-	=	-
	Wind - large	48	330.36	-	-	-	-	1	2.53
	Wind - small	17	10.33	-	-	1	0.63	3	2.03
	Anaerobic digestion of agricultural waste	6	6.58	-	-	-	-	-	-
	Energy crops and forestry waste gasification	7	67.34						
NFFO - 5 (1998)	Total Hydro	195 22	842.73 8.87	24	46.63	49	105.35	62	156.67
14110 - 3 (1990)	Landfill gas	141	313.73	1	1.78	11	16.58	23	53.88
	Municipal and industrial waste	22	415.75		-		-	-	-
	Municipal and industrial waste - CHP	7	69.97	-	-	-	-	-	-
	Wind - large	33	340.16	-	-	-	-	-	-
	Wind - small	36	28.67	-	-	2	1.69	2	1.69
	Total	261	1,177.15	1	1.78	13	18.27	25	55.57
NFFO Total		794	3,271.15	234	607.02	278	692.64	303	817.88
Scotland	Biomass	1	0.0						0.00
SRO - 1 (1994)	Hydro	15	9.8 17.25	3	2.27	4	3.22	1 6	9.80 4.04
	Waste to Energy	2	3.78	2	3.78	2	3.78	2	3.78
	Wind	12	45.6	6	21.76	7	25.13	7	25.13
	Total	30	76.43	11	27.81	13	32.13	16	42.75
SRO - 2 (1997)	Biomass	1	2	-	-	-	-	-	-
	Hydro	9	12.36	-	-	-	-	-	-
	Waste to Energy	9	56.05	-	-	3	6.7	4	15.00
	Wind	7	43.36	-	-	-	-	-	
000 0 (4000)	Total	26	114.04	-	-	3	6.7	4	15.00
SRO - 3 (1999)	Biomass Hydro	1 5	12.9 3.9	-	-	-	-	-	-
	Waste to Energy	16	49.11		-			1	3.94
	Wase to Energy	3	2	_	-	-	-	•	0.04
	Wind - large	11	63.43	-	-	-	-	1	8.29
	Wind - small	17	14.06	-	-	-	-	2	1.62
	Total	53	145.40	-	-	-	-	4	13.85
SRO Total		109	335.87	11	14.55	16	38.83	24	71.60
Northern Ireland				-				-	
NI NFFO - 1 (1994)	Hydro	9	2.37	7	1.89	7	1.89	7	1.89
	Sewage gas Wind	5 6	0.56 12.66	6	12.66	6	12.66	6	12.66
	Total	20	15.59	13	14.55	13	14.55	13	14.55
NI NFFO - 2 (1996)	Biogas	1	0.25	- 13	14.55	- 13	14.55	- 13	14.33
. = = ()	Biomass	2	0.3	2	0.30	2	0.30	2	0.30
	Hydro	2	0.25	1	0.08	1	0.08	1	0.08
	Landfill gas	2	6.25	-	-	-	-	-	-
	Municipal and industrial waste	1	6.65	-	-	-	-	-	-
	Wind	2	2.57	-		11	0.43	2	2.57
	Total	10	16.27	3	0.38	4	0.81	5	2.95
NI NFFO Total		30	31.86	16	14.93	17	15.36	18	17.50
All NFFO and equiva	ilents(2)	933	3,638.88	261	649.76	311	746.83	345	907.00

⁽¹⁾ Sites that have closed, sites that are not currently using renewables as fuel and those that are no longer under contract have been excluded.

(2) The NFPA NFFO database has reported that at the end of December 2012 487 sites totalling 1,275.56 MW had gone live under NFFO, but this includes a number of sites which have closed or are not currently using renewables as fuels.

The following table compares the totals for live projects, above, with the overall NFFO total:

Number

Number

MW

All he NEFO and environment.

All live NFFO and equivalents
NFFO-1 no longer classed as live and operational
NFFO-2 no longer classed as live and operational
NFFO-3 no longer classed as live and operational
NFFO-3 no longer classed as live and operational
NFFO-5 no longer classed as live and operational
NFO-5 no longer classed as live and operational
SRO-1 no longer classed as live and operational
SRO-3 no longer classed as live and operational
NI-NFFO-1 no longer classed as live and operational
NI-NFFO-1 no longer classed as live and operational
NI-NFFO-2 no longer classed as live and operational
NI-NFFO-1 no longer classed as live and operational
NI-NFFO-1 no longer classed as live and operational
All NFFO and equivalents 1005.45 16.39 15.72 105.90 31.65 24.14 28.84 16.70 15.74 15.04 0.00

6.1.2 Renewable orders and operational capacity (continued)

2001 Live projects operational at 31		2002 Live projects operational at 31		2003 Live projects operational at 31		2004 Live projects operational at 31		2005 Live projects operational at 31		2006 Live projects operational at 31	
December 2		December 2		December 2		December 2		December 2		December 2	
	Capacity		Capacity		Capacity		Capacity		Capacity		Capacity
Number	MW	Number	MW	Number	MW	Number	MW	Number	MW	Number	MW
21	10.00	9	2.95	9	7.63	13	8.19	13	4.83	13	4.83
19	30.78	8	16.56	17	29.32	13	25.09	13	25.09	13	25.09
4	40.63 45.48	4 2	44.62 25.38	4 2	40.63 25.38	4	40.63 45.38	4 3	40.63 45.38	4	40.63 45.38
6	5.98	2	8.67	6	5.98	4	1.55	4	4.08	4	4.08
5	8.14	1	2.06	2	5.81	3	7.53	5	8.14	5	8.14
59	141.01	26	100.24	40	114.74	40	128.37	42	128.16	42	128.16
10	10.46	1	0.07	2	2.78	8	10.16	9	10.43	9	10.43
26	46.39	13	22.33	26	46.39	22	35.67	21	34.64	21	34.64
2 1	31.50 12.50	2 1	31.50 12.50	2	31.50	2	31.50 12.50	2	31.50 12.50	2	31.50 12.50
18	19.06	16	14.22	17	18.39	17	25.69	17	18.56	17	18.56
23	52.45	23	52.45	21	52.20	23	52.45	22	51.97	22	51.97
80	172.36	56	133.07	68	151.26	73	167.97	72	159.60	72	159.60
1	8.00	-	-	-	-	-	-	-	-	-	-
2	69.50	2	69.50	2	69.50	2	69.50	2	69.50	2	69.50
-	00.00	-	00.00	-	00.00	-	00.00	-	00.00	-	00.00
8	11.74	8	11.74	8	11.74	8	11.74	. 8	11.74	8	11.74
42 6	82.07 77.42	42 6	82.07 77.42	42 7	82.07 89.12	42 8	82.07 102.92	41 9	80.55 114.62	40 9	79.03 126.32
10	41.02	10	41.02	10	41.02	10	41.02	12	50.50	12	50.50
10	9.47	11	10.84	13	11.86	13	11.86	15	13.52	15	13.52
79	299.22	79	292.58	82	305.31	83	319.11	87	340.43	86	350.61
7	2.10	8	2.30	9	2.49	9	2.49	9	2.49	9	2.49
51 2	135.71 14.98	55 4	141.73 33.48	57 4	146.00 33.48	60 4	148.36 33.48	62 4	161.46 33.48	62 4	160.51 33.48
-	14.50	-	-	-	-	-	-	-	-	-	- 33.46
1	2.53	4	12.97	4	12.97	4	12.97	6	38.67	6	38.67
4	2.76	5 1	3.27 1.43	5 1	3.27 1.43	5 1	3.27 1.43	6 1	4.03 1.43	6 1	4.03 1.43
			1.43	-	1.40	-	1.43	-	1.45		1.43
65	158.08	77	195.18	80	199.64	83	202.00	88	241.57	88	240.62
3	0.64	3	0.64	3	0.64	-	-	-	-	-	-
45	89.60	58	114.50	67	137.26	77	164.32	80	170.41	84	180.49
		-						-		-	-
_	_	_	_	-	_	_	_	_	_	-	
4	3.65	4	3.65	6	4.85	9	7.45	9	7.45	9	7.45
52	93.89	65	118.79	76	142.75	86	171.77	89	177.86	93	187.94
335	864.55	303	839.86	346	913.70	365	989.21	378	1,047.61	381	1,066.92
1	9.80	1	9.80	1	9.80	1	9.80	1	9.80	_	_
6	4.04	8	7.82	9	8.81	9	8.81	10	10.75	10	10.75
2	3.78	2	3.78	2	3.78	2	3.78	2	3.78	2	3.78
7	25.13	7	25.13	7	25.13	7	25.13	7	25.13	7	25.13
16	42.75	18	46.53	19	47.52	19	47.52	20	49.46	19	39.66
2	1.46	2	1.46	2	1.46	2	1.46	2	1.46	2	1.46
4	15.00	4	15.00	6	17.65	6	17.65	6	17.65	6	17.65
3	18.95	5	31.29	5	31.29	5	31.29	5	31.29	5	31.29
9	35.41	11	47.75	13	50.40	13	50.40	13	50.40	13	50.40
-	-	-	-	-	-	-		-	-	-	=
- 2	6.12	4	10.30	7	16.04	10	22.36	10	22.36	10	22.36
1	0.12	1	0.20	1	0.20	1	0.20	1	0.20	1	0.20
1	8.29	1	8.29	1	8.29	1	8.29	1	8.29	1	8.29
3	2.47	3	2.47	5	4.28	5	4.28	5	4.28	4	3.43
7	17.08	9	21.26	14	28.81	17	35.13	17	35.13	16	34.28
32	95.24	38	115.54	46	126.73	49	133.05	50	134.99	48	124.34
7	1.89	8	2.33	8	2.33	8	2.33	9	2.37	9	2.37
-	-	-	-	-	-	-	-	-	-	-	
6	12.66	6	12.66	6	12.66	6	12.66	6	12.66	6	12.66
13	14.55	14	14.99	14	14.99	14	14.99	15	15.03	15	15.03
2	0.30	2	0.30	2	0.30	2	0.30	2	0.30	2	0.30
1	0.08	1	0.08	1	0.08	1	0.08	1	0.08	1	0.08
-	-	-	-	-	-	-	-	-	-	-	-
2	2.57	2	2.57	2	2.57	2	2.57	2	2.57	2	2.57
5	2.57	5	2.57	5	2.95	5	2.95	5	2.95	5	2.57
18	17.5	19	17.94	19	17.94	19	17.94	20	17.98	20	17.98
385	977.29	360	973.34	411	1,058.37	433	1,140.20	448	1,200.59	449	1,209.24
					,						,

6.1.2 Renewable orders and operational capacity (continued)

		2007		2008		2009	`	2010		
			Live projects		Live projects		Live projects		Live projects	
		operational	l at 31	operationa	l at 31	operationa	al at 31	operationa	al at 31	
	Technology band	December 2	2007 (1) Capacity	December 2		December 2		December 2	2010 (1) Capacity	
	rechnology band	Number	MW	Number	Capacity MW	Number	Capacity MW	Number	MW	
England and Wales										
NFFO - 1 (1990)	Hydro Landfill gas	13	4.83 25.09	13	4.83 25.09	13	4.83 25.09	13	4.83 25.09	
	Municipal and industrial waste	13 4	40.63	13 4	40.63	13 4	40.63	13 4	40.63	
	Other	3	45.38	3	45.38	3	45.38	3	45.38	
	Sewage gas	4	4.08	4	4.08	4	4.08	4	4.08	
	Wind	5 42	8.14	5 42	8.14	5 42	8.14	5	8.14 128.16	
NEED 0 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total (2)		128.16		128.16		128.16	42		
NFFO - 2 (late 1991)	Hydro Landfill gas	9 21	10.43 34.64	9 21	10.43 34.64	9 21	10.43 34.64	9 21	10.43 34.64	
	Municipal and industrial waste	2	31.50	2	31.50	2	31.50	2	31.50	
	Other	1	12.50	1	12.50	1	12.50	1	12.50	
	Sewage gas	17	18.56	17	18.56	17	18.56	17	18.56	
	Wind	22	51.97	22	51.97	22	51.97	22	51.97	
NFFO - 3 (1995)	Total (2) Energy crops and agricultural and forestry	72	159.60	72	159.60	72	159.60	72	159.60	
NFFO = 3 (1995)	waste - gasification									
	Energy crops and agricultural and forestry	1	31.00	1	31.00	1	31.00	1	31.00	
	waste - other									
	Hydro Landfill gas	8 35	11.74 71.08	8 35	11.74 71.08	8 35	11.74 71.08	8 30	11.74 60.27	
	Municipal and industrial waste	9	126.32	9	126.32	9	126.32	10	169.32	
	Wind - large	12	50.50	12	50.50	12	50.50	12	50.50	
	Wind - small	15	13.52	15	13.52	15	13.52	15	13.52	
	Total	80	304.16	80	304.16	80	304.16	76	336.35	
NFFO - 4 (1997)	Hydro Landfill gas	9 60	2.49 158.95	9 60	2.49 158.95	9 58	2.49 156.04	7 50	1.94 130.69	
	Municipal and industrial waste - CHP	4	33.48	4	33.48	4	33.48	4	33.48	
	Municipal and industrial waste - fluidised bed	-	-		-	-	-		-	
	combustion									
	Wind - large	7	42.72	7	42.72	7	42.72	7	42.72	
	Wind - small Anaerobic digestion of agricultural waste	6	4.03	6	4.03	6	4.03	6	4.03	
	Energy crops and forestry waste gasification	-	-	-	-	_	-	-		
	Total	86	241.67	86	241.67	84	238.76	74	212.85	
NFFO - 5 (1998)	Hydro	-	-	-	-	2	1.00	2	1.00	
	Landfill gas	79	168.04	79	168.04	75	163.35	63	130.38	
	Municipal and industrial waste Municipal and industrial waste - CHP	-	-	-		1	9.90	1	9.90	
	Wind - large	_	-	_	-	_	_	_		
	Wind - small	9	7.45	9	7.45	9	7.45	9	7.45	
	Total	88	175.49	88	175.49	87	181.69	75	148.73	
NFFO Total		368	1,009.07	368	1,009.07	365	1,012.37	339	985.69	
Scotland SDO 4 (4004)	Diamaga									
SRO - 1 (1994)	Biomass Hydro	9	10.09	9	10.09	9	10.09	9	10.09	
	Waste to Energy	2	3.78	2	3.78	2	3.78	2	3.78	
	Wind	7	25.13	7	25.13	7	25.13	7	25.13	
	Total	18	39.00	18	39.00	18	39.00	18	39.00	
SRO - 2 (1997)	Biomass	-	-	-	-	-	-	-	-	
	Hydro Waste to Energy	2 6	1.46 17.65	2 6	1.46 17.65	2 6	1.46 17.65	2 6	1.46 17.65	
	Wind	5	31.29	5	31.29	5	31.29	3	18.51	
	Total	13	50.40	13	50.40	13	50.40	11	37.62	
SRO - 3 (1999)	Biomass	-	-	-	-	-	-	-	-	
	Hydro	-	-	-	-	-	-	-		
	Waste to Energy Wave	10 1	22.36	10 1	22.36 0.20	10 1	22.36 0.20	10 1	22.36 0.20	
	wave Wind - large		0.20	-	-	-	-		0.20	
	Wind - small	4	3.43	4	3.43	4	3.43	4	3.43	
	Total	15	25.99	15	25.99	15	25.99	15	25.99	
SRO Total		46	115.39	46	115.39	46	115.39	44	102.61	
Northern Ireland										
NI NFFO - 1 (1994)	Hydro Sowago goo	9 -	2.37	9	2.37	9	2.37	-	-	
	Sewage gas Wind	6	12.66	6	12.66	6	12.66	-		
	Total	15	15.04	15	15.04	15	15.04	-		
NI NFFO - 2 (1996)	Biogas	-	-	-	-					
	Biomass	2	0.30	2	0.30	2	0.30	2	0.30	
	Hydro	1	0.08	1	0.08	1	0.08	1	0.08	
	Landfill gas Municipal and industrial waste	-	-	-	-		-	-	-	
		2	2.57	-	2.57	2	2.57	2	2.57	
	Wind	2	2.57	2	2.57	2	2.01	-		
	Total	5	2.95	5	2.95	5	2.95	5	2.95	
NI NFFO Total										

6.1.2 Renewable orders and operational capacity (continued)

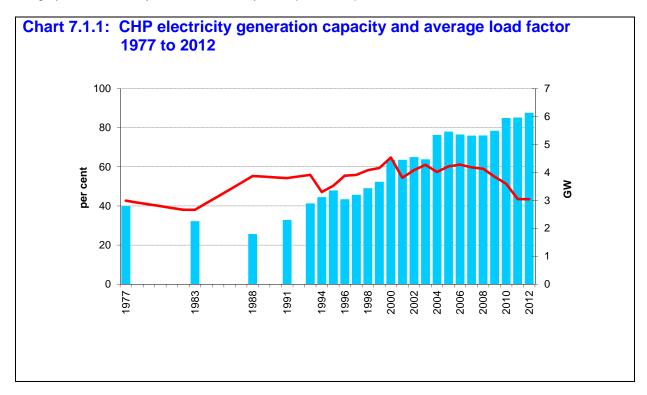
		2011 Live projects		2012 Live projects		
		operational	l at 31	operationa	at 31	
		December 2	011 (1)	December 2	012 (1)	
	Technology band		Capacity		Capacity	
F		Number	MW	Number	MW	
England and Wales						
NFFO - 1 (1990)	Hydro Landfill gas	13	4.83	13	4.83 21.55	
	Landfill gas Municipal and industrial waste	13 4	25.09 40.63	10 4	40.63	
	Other	3	45.38	3	45.38	
	Sewage gas	4	4.08	4	4.08	
	Wind	5	8.14	5	8.14	
	Total (2)	42	128.16	39	124.61	
NFFO - 2 (late 1991)	Hydro	9	10.43	9	10.43	
	Landfill gas	21	34.64	18	31.68	
	Municipal and industrial waste	2	31.50	2	31.50	
	Other	1	12.50	1	12.50	
	Sewage gas	17 22	18.56	17 22	18.56	
	Wind		51.97		51.97	
	Total (2)	72	159.60	69	156.64	
NFFO - 3 (1995)	Energy crops and agricultural and forestry					
	waste - gasification					
	Energy crops and agricultural and forestry	1	31.00	1	31.00	
	waste - other					
	Hydro	8	11.74	8	11.74	
	Landfill gas	26 8	52.76 98.12	25 8	51.52 98.12	
	Municipal and industrial waste					
	Wind - large Wind - small	11 15	48.14	11 15	48.14	
			13.52		13.52	
NEEO 4 (400=)	Total	69	255.27	68	254.04	
NFFO - 4 (1997)	Hydro	9	2.49	9	2.49	
	Landfill gas	55 4	149.63 33.48	52 4	146.99 33.48	
	Municipal and industrial waste - CHP	4	33.48	4	33.48	
	Municipal and industrial waste - fluidised bed					
	combustion	7	40.70	7	42.72	
	Wind - large	7	42.72	7		
	Wind - small	6	4.03	6	4.03	
	Anaerobic digestion of agricultural waste Energy crops and forestry waste gasification					
11550 - (1000)	Total	81	232.35	78	229.71	
NFFO - 5 (1998)	Hydro	2	1.00	2	1.00	
	Landfill gas	66	150.17	61	145.45	
	Municipal and industrial waste	1	9.90	1	9.90	
	Municipal and industrial waste - CHP Wind - large					
	Wind - large Wind - small	9	7.45	9	7.45	
		-			7.45	
	Total	78	168.52	73	163.79	
NFFO Total		342	943.90	327	928.79	
Scotland						
SRO - 1 (1994)	Biomass					
	Hydro	9	10.09	9	10.09	
	Waste to Energy					
	Wind	3	10.53	3	10.53	
	Total	12	20.62	12	20.62	
SRO - 2 (1997)	Biomass					
	Hydro	2	1.46	2	1.46	
	Waste to Energy	4	13.73	4	13.73	
	Wind	3	18.51	3	18.51	
	Total	9	33.70	9	33.70	
SRO - 3 (1999)	Biomass					
	Hydro					
	Waste to Energy	7	15.76	7	15.76	
	Wave	1	0.20	1	0.20	
	Wind - large					
	Wind - small	4	3.43	4	3.43	
	Total	12	19.39	12	19.39	
SRO Total		33	73.71	33	73.71	
Northern Ireland			1		79.71	
NI NFFO - 1 (1994)	Hydro					
	Sewage gas					
	Wind					
	Total			-		
NI NFFO - 2 (1996)	Biogas					
NI NETO - 2 (1990)		2	0.20	•	0.20	
	Biomass	2 1	0.30	2	0.30	
	Hydro Landfill gas	1	80.0	1	0.08	
	Municipal and industrial waste					
		2	257	•	0.57	
	Wind	2	2.57	2	2.57	
	Total	5	2.95	5	2.95	
NI NFFO Total All NFFO and equivalents		5 380	2.95 1,020.56	5 365	2.95 1,005.45	

Chapter 7: Long term trends

Combined Heat and Power

Combined Heat and Power: capacity, generation and fuel use (Table 7.1.1)

- 7.1.1 This table extends the summary series shown in Table 7A of Chapter 7 of the main Digest back to 1977, the earliest year for which data on Combined Heat and Power (CHP) are available. CHP data have been collected on an annual basis since 1993, but before that the data were collected on an occasional basis.
- 7.1.2 As Chart 7.1.1 shows, between 1993 and 2005 the electricity generating capacity of CHP increased by over 90 per cent, at an average rate of around $5\frac{1}{2}$ per cent a year. Between 2005 and 2009 capacity levelled off before increasing again in 2010 due to increases within the oil refinery sector.
- 7.1.3 The plant load factor measures how intensively the CHP plants are used. The average load factor peaked in 2000 at around 65 per cent but fell sharply in 2001 to around 54 per cent following a fall in the electricity price. Between 2002 and 2008 the load factor fluctuated between 56 and 61 per cent, before falling in 2009 and again in 2010. The load factor fell further in 2011 to 44 per cent, largely due to the way that Good Quality CHP power output is calculated 1.

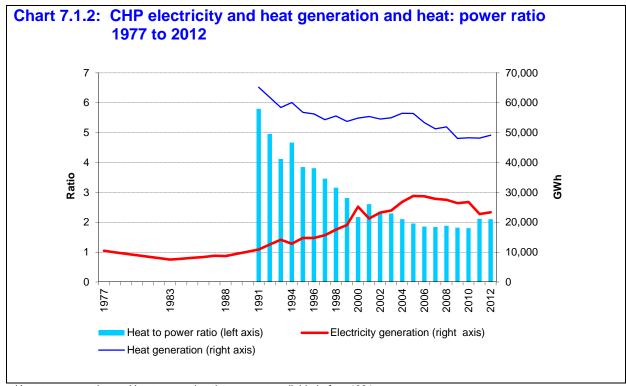


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¹ See paragraph 7.10 of Chapter 7 in DUKES 2013

7.1.4 Between 1995 and 2006 heat generation at CHP plants showed a fairly stable pattern remaining within the 53,000 to 57,000 GWh band, before falling in 2007 and again in 2009. Heat generation has risen slightly over the 3 years such that the heat generated in 2012 was around 49,000 GWh.

7.1.5 Over the same period (1995-2006), electricity generation from CHP almost doubled, equivalent to a growth rate of around 5½ per cent a year. The rise in generation up to 2000 reflected the liberalisation of the electricity markets which gave a strong incentive to design schemes to maximise the electricity generation for a given heat load since the electricity could be sold on to suppliers. Newer CHP schemes thus tended to have lower heat to power ratios as Chart 7.1.2 shows. One of the effects of the introduction of the New Electricity Trading Arrangements (NETA) in March 2001 was a fall in the price of electricity, including the price of electricity exported from CHP plants. This led to a decline in investment in new plants and also a decline in the electrical output of existing CHP plants between 2000 and 2001. Following the sharp decline in 2001, electricity generation at CHP plants rose again to its peak in 2005, exceeding the 2000 level by 14 per cent. However, between 2006 and 2010, electricity generation saw a small and steady decrease before the large fall seen in 2011 (again due to changes in the way Good Quality CHP electricity generation was calculated). A small rise in electricity generation was seen in 2012.



Heat to power ratios and heat generation data are not available before 1991

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7.1.1 Combined Heat and Power: capacity, generation and fuel use

		•	Heat capacity	Heat to	Fuel	Electricity	Heat	Overall	Load
	schemes	capacity (1)	(2)	power ratio (3)	input	generation	generation (4)	efficiency (5)	factor
-		MWe	MWth		GWh	GWh	GWh	Per cent	Per cent
197	7	2,793				10,450			43
198	3	2,254				7,500			38
198	8	1,793				8,700			55
199	1 266	2,293	13,361	5.80	113,537	10,917	65,174	67.0	54.3
199	3 996	2,893	14,442	4.12	101,650	14,171	58,418	71.4	55.9
199	4 1,139	3,117	15,704	4.67	97,468	12,853	60,079	74.8	47.1
199	5 1,220	3,355	15,698	3.85	106,504	14,778	56,833	67.2	50.3
199	6 1,298	3,041	15,276	3.81	97,993	14,782	56,285	72.5	55.5
199	7 1,318	3,204	15,528	3.46	97,881	15,699	54,329	71.5	55.9
199	8 1,328	3,439	15,557	3.16	100,877	17,568	55,579	72.5	58.3
199	9 1,352	3,669	15,426	2.81	100,549	19,104	53,755	72.5	59.4
200	0 1,339	4,451	26,150	2.17	106,229	25,245	54,877	75.4	64.7
200	1 1,366	4,453	26,479	2.61	109,348	21,231	55,410	70.1	54.4
200	2 1,328	4,548	27,056	2.35	112,668	23,221	54,564	69.0	58.3
200	3 1,292	4,472	26,122	2.30	113,085	23,933	54,977	69.8	61.1
200	4 1,263	5,340	22,505	2.10	120,180	26,852	56,520	69.4	57.4
200	5 1,284	5,464	22,390	1.96	124,602	28,827	56,441	68.4	60.2
200	6 1,271	5,361	22,067	1.86	122,340	28,729	53,405	67.1	61.2
200	7 1,314	5,318	21,235	1.84	118,598	27,832	51,297	66.7	59.7
200	8 1,327	5,323	21,133	1.89	118,685	27,528	51,911	66.9	59.0
200	9 1,380	5,492	22,258	1.82	111,291	26,425	48,092	67.0	54.9
201	0 1,460	5,950	22,204	1.80	112,560	26,768	48,267	66.7	51.4
201	1 1,794	5,970	22,168	2.12	98,194	22,766	48,183	72.3	43.5
201	2 1,929	6,136	22,837	2.10	103,181	23,360	49,134	70.3	43.5

^{(1) (}CHP $_{\mathrm{QPO}}$) basis from 1995 onwards

⁽²⁾ Complete heat capacity data is only available from 2000 onwards following the introduction of CHPQA

⁽³⁾ Heat to power ratios are calculated from the qualifying heat output (QHO) and the qualifying power output (QPO) (and their equivalents in the years before the CHPQA scheme was used for CHP statistics).

⁽⁴⁾ These are calculated using gross calorific values; overall net efficiencies are some 5 percentage points higher.

^{(5) (}CHP QHO) basis from 1995 onwards