

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 6D on page 169 of DUKES. The contribution of renewables has continued to grow in recent years, with the share reaching 7.2 per cent in 2014.

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I.1 Aggregate energy balance 2014

Net calorific values

Thousand tonnes of oil equivalent

	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Supply										
Indigenous production	6,925	-	41,478	-	32,925	6,657	17,457	-	-	105,441
Imports	25,925	668	55,868	30,032	36,926	2,768	-	1,997	-	154,184
Exports	-303	-79	-32,144	-23,490	-9,898	-314	-	-234	-	-66,462
Marine bunkers	-	-	-	-2,335	-	-	-	-	-	-2,335
Stock change (4)	-2,689	-150	-615	+294	-184	-	-	-	-	-3,345
Primary supply	29,857	439	64,587	4,502	59,768	9,112	17,457	1,764	-	187,485
Statistical difference(5)	-4	-3	-39	-190	-67	-	-	-48	-	-351
Primary demand	29,861	443	64,626	4,691	59,835	9,112	17,457	1,812	-	187,836
Transfers	-	+8	-1,548	+1,554	-11	-	-3,607	+3,607	-	+3
Transformation	-28,015	1,381	-63,078	61,739	-18,915	-5,545	-13,850	25,287	1,625	-39,370
Electricity generation	-22,849	-898	-	-490	-16,901	-5,475	-13,850	25,287	-	-35,174
Major power producers	-22,740	-	-	-165	-14,697	-2,622	-13,850	22,918	-	-31,155
Autogenerators	-109	-898	-	-324	-2,204	-2,853	-	2,369	-	-4,019
Heat generation	-304	-48	-	-69	-2,014	-70	-	-	1,625	-881
Petroleum refineries	-	-	-63,078	62,371	-	-	-	-	-	-707
Coke manufacture	-3,595	3,370	-	-	-	-	-	-	-	-224
Blast furnaces	-1,093	-1,229	-	-	-	-	-	-	-	-2,322
Patent fuel manufacture	-174	185	-	-74	-	-	-	-	-	-63
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	0	763	-	3,866	3,821	-	-	2,162	285	10,898
Electricity generation	-	-	-	-	-	-	-	1,420	-	1,420
Oil and gas extraction	-	-	-	659	3,288	-	-	45	-	3,992
Petroleum refineries	-	-	-	3,207	88	-	-	391	285	3,972
Coal extraction	0	-	-	-	13	-	-	60	-	74
Coke manufacture	-	349	-	-	-	-	-	7	-	356
Blast furnaces	-	413	-	-	26	-	-	38	-	477
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	86	-	86
Other	-	-	-	-	405	-	-	115	-	520
Losses	-	211	-	-	531	-	-	2,456	-	3,197
Final consumption	1,846	858	-	64,118	36,557	3,567	-	26,088	1,339	134,375
Industry	1,421	556	-	4,098	7,158	599	-	8,029	896	22,755
Unclassified	-	44	-	3,183	1	599	-	-	-	3,828
Iron and steel	36	512	-	7	422	-	-	326	-	1,302
Non-ferrous metals	14	-	-	0	152	-	-	384	-	551
Mineral products	743	-	-	188	1,171	-	-	549	-	2,651
Chemicals	47	-	-	117	1,118	-	-	1,378	467	3,128
Mechanical engineering etc	9	-	-	-	450	-	-	585	-	1,043
Electrical engineering etc	4	-	-	1	193	-	-	499	-	697
Vehicles	37	-	-	196	336	-	-	403	-	972
Food, beverages etc	36	-	-	105	1,589	-	-	895	-	2,625
Textiles, leather etc	39	-	-	50	400	-	-	233	-	722
Paper, printing etc	75	-	-	34	607	-	-	906	-	1,622
Other industries	374	-	-	36	389	-	-	1,754	429	2,982
Construction	5	-	-	180	329	-	-	118	-	633
Transport (6)	9	-	-	49,666	-	1,168	-	366	-	51,209
Air	-	-	-	11,798	-	-	-	-	-	11,798
Rail	9	-	-	618	-	-	-	360	-	987
Road	-	-	-	36,527	-	1,168	-	6	-	37,701
National navigation	-	-	-	723	-	-	-	-	-	723
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	416	173	-	3,821	28,979	1,800	-	17,694	444	53,327
Domestic	393	173	-	2,415	21,521	1,433	-	9,362	52	35,349
Public administration	16	-	-	338	2,861	74	-	1,565	381	5,235
Commercial	3	-	-	442	3,749	53	-	6,446	11	10,703
Agriculture	-	-	-	344	69	240	-	321	-	973
Miscellaneous	4	-	-	282	780	0	-	-	-	1,067
Non energy use	-	129	-	6,534	420	-	-	-	-	7,083

(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 6.41 regarding renewables use in transport.

I.1 Aggregate energy balance 2013

Net calorific values

Thousand tonnes of oil equivalent

	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Supply										
Indigenous production	7,575r	-	42,208	-	32,870	6,337r	18,462	-	-	107,452r
Imports	30,516	593	61,402	29,803r	41,410	1,896	-	1,508	-	167,127r
Exports	-424	-82	-34,362r	-27,854r	-8,486	-211	-	-267	-	-71,687r
Marine bunkers	-	-	-	-2,529	-	-	-	-	-	-2,529
Stock change (4)	-770r	-86r	+751	+77	+48	-	-	-	-	+20r
Primary supply	36,896r	424	70,000r	-503r	65,842	8,021r	18,462	1,241	-	200,382r
Statistical difference(5)	-189r	+0r	-85	-66	+146r	-	-	-89r	-	-282r
Primary demand	37,085r	424r	70,085r	-437r	65,695r	8,021r	18,462	1,330	-	200,665r
Transfers	-	+5r	-1,962r	+1,960r	-5	-	-3,020r	+3,020r	-	-1r
Transformation	-35,232r	1,451r	-68,124r	66,947r	-17,880r	-4,698r	-15,442	27,614r	1,531r	-43,833r
Electricity generation	-29,861r	-919	-	-548r	-15,966r	-4,641r	-15,442	27,614r	-	-39,764r
Major power producers	-29,743	-	-	-217r	-13,559r	-1,981	-15,442	25,301r	-	-35,641r
Autogenerators	-117r	-919	-	-331r	-2,408r	-2,660r	-	2,312r	-	-4,123r
Heat generation	-359	-48	-	-64	-1,914r	-57r	-	-	1,531r	-911r
Petroleum refineries	-	-	-68,124r	67,650r	-	-	-	-	-	-474r
Coke manufacture	-3,819	3,494	-	-	-	-	-	-	-	-325
Blast furnaces	-1,019	-1,304r	-	-	-	-	-	-	-	-2,322r
Patent fuel manufacture	-175r	227	-	-90r	-	-	-	-	-	-38r
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	2	738	-	4,355r	4,169r	-	-	2,324r	160	11,748r
Electricity generation	-	-	-	-	-	-	-	1,538	-	1,538r
Oil and gas extraction	-	-	-	632	3,603	-	-	49	-	4,284
Petroleum refineries	-	-	-	3,723r	89	-	-	402r	160	4,374r
Coal extraction	2	-	-	-	12	-	-	68	-	82
Coke manufacture	-	347	-	-	-	-	-	7	-	353
Blast furnaces	-	392	-	-	28	-	-	38	-	458
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	88r	-	88r
Other	-	-	-	-	437r	-	-	133	-	570r
Losses	-	212	-	-	578	-	-	2,384r	-	3,174r
Final consumption	1,851r	929r	-	64,115r	43,063r	3,323r	-	27,255r	1,372r	141,908r
Industry	1,358r	586r	-	4,079r	7,197r	489r	-	8,398r	921r	23,029r
Unclassified	-	73	-	3,165r	1	489r	-	-	-	3,728r
Iron and steel	36	513r	-	4	413	-	-	327	-	1,293r
Non-ferrous metals	13	-	-	0	149	-	-	381	-	544r
Mineral products	737	-	-	184r	1,175	-	-	578	-	2,674r
Chemicals	52	-	-	112r	1,106r	-	-	1,485r	510r	3,265r
Mechanical engineering etc	8	-	-	-	439r	-	-	607	-	1,054r
Electrical engineering etc	4	-	-	1	202	-	-	531	-	737
Vehicles	35	-	-	193r	347	-	-	436	-	1,010r
Food, beverages etc	30	-	-	126	1,595r	-	-	953r	0	2,704r
Textiles, leather etc	40	-	-	49r	399	-	-	249	-	737r
Paper, printing etc	67r	-	-	33r	630r	-	-	929r	-	1,659r
Other industries	333r	-	-	36r	401r	-	-	1,796r	411r	2,976r
Construction	5	-	-	176r	340	-	-	126	-	646r
Transport (6)	9	-	-	49,233r	-	1,022r	-	367r	-	50,631r
Air	-	-	-	11,812r	-	-	-	-	-	11,812r
Rail	9	-	-	616r	-	-	-	364r	-	990r
Road	-	-	-	36,026	-	1,022r	-	3	-	37,051
National navigation	-	-	-	779	-	-	-	-	-	779
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	483r	210	-	4,109r	35,433r	1,812r	-	18,490r	451r	60,988r
Domestic	460r	210	-	2,714r	26,505r	1,481r	-	9,755	52	41,175r
Public administration	15	-	-	326r	3,437r	92r	-	1,618	384r	5,872r
Commercial	3	-	-	429r	4,472r	48r	-	6,784r	15r	11,752r
Agriculture	-	-	-	366r	85	191r	-	333	-	975r
Miscellaneous	5	-	-	274r	934r	0	-	-	-	1,213r
Non energy use	-	133	-	6,694r	433	-	-	-	-	7,260r

(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 6.41 regarding renewables use in transport.

I.1 Aggregate energy balance 2012

Net calorific values

Thousand tonnes of oil equivalent

	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Supply										
Indigenous production	10,054r	-	46,276	-	35,032	5,781r	17,482r	-	-	114,625r
Imports	27,608	147	62,756r	27,120r	42,525	1,519	-	1,182	-	162,856r
Exports	-349	-392	-32,122r	-30,885r	-11,145	-259	-	-161	-	-75,313r
Marine bunkers	-	-	-	-2,643	-	-	-	-	-	-2,643
Stock change (4)	+1,857r	+66	-505	+139	-21	-	-	-	-	+1,537r
Primary supply	39,170r	-179r	76,405r	-6,269r	66,391	7,041r	17,482r	1,021r	-	201,061r
Statistical difference(5)	+212r	-7	-132r	-83r	-144r	-	-	-49	-	-203r
Primary demand	38,958r	-171	76,537r	-6,186r	66,535r	7,041r	17,482r	1,070r	-	201,265r
Transfers	-	+4	-2,057r	+2,033r	-4	-	-2,276r	+2,276r	-	-24r
Transformation	-37,296r	1,670r	-74,480r	73,178r	-18,699r	-4,232r	-15,205	28,731	1,533r	-44,801r
Electricity generation	-32,601r	-780r	-	-672	-16,757r	-4,120r	-15,205	28,731	-	-41,405r
Major power producers	-31,973	-	-	-374	-14,263r	-1,440	-15,205	26,139r	-	-37,116r
Autogenerators	-628	-780r	-	-298	-2,495r	-2,680r	-	2,591r	-	-4,289r
Heat generation	-272	-48	-	-77	-1,942	-112	-	-	1,533r	-918
Petroleum refineries	-	-	-74,480r	73,995r	-	-	-	-	-	-485r
Coke manufacture	-3,586	3,429	-	-	-	-	-	-	-	-157
Blast furnaces	-713	-1,106r	-	-	-	-	-	-	-	-1,818r
Patent fuel manufacture	-125r	174	-	-68	-	-	-	-	-	-18r
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	3	660	-	4,846	4,359r	-	-	2,252r	307	12,427r
Electricity generation	-	-	-	-	-	-	-	1,545r	-	1,545r
Oil and gas extraction	-	-	-	629	3,750	-	-	49	-	4,428
Petroleum refineries	-	-	-	4,217	125	-	-	326r	307	4,975r
Coal extraction	3	-	-	-	15	-	-	71	-	89
Coke manufacture	-	353	-	-	-	-	-	7	-	360r
Blast furnaces	-	307	-	-	21	-	-	32	-	360r
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	87	-	87
Other	-	-	-	-	448r	-	-	136	-	584r
Losses	-	85	-	-	611	-	-	2,485r	-	3,181r
Final consumption	1,660	757	-	64,179r	42,862r	2,809r	-	27,340r	1,226	140,831r
Industry	1,152	455r	-	4,402r	7,083	393r	-	8,442r	766	22,692r
Unclassified	-	48	-	3,609r	1	393r	-	-	-	4,050r
Iron and steel	34	408r	-	5	394	-	-	290	-	1,131r
Non-ferrous metals	12	-	-	-	146	-	-	432	-	591
Mineral products	706	-	-	158r	1,168	-	-	580	-	2,612r
Chemicals	46	-	-	116r	1,177	-	-	1,500r	336	3,175r
Mechanical engineering etc	7	-	-	0	452	-	-	608	-	1,067
Electrical engineering etc	3	-	-	2	204	-	-	532	-	741
Vehicles	34	-	-	138r	310	-	-	437	-	919r
Food, beverages etc	30	-	-	118	1,560	-	-	958r	3	2,669r
Textiles, leather etc	41	-	-	43	405	-	-	250	-	740r
Paper, printing etc	76	-	-	27	548	-	-	934	1	1,586
Other industries	158	-	-	38	392	-	-	1,791r	426	2,805r
Construction	5	-	-	147r	325	-	-	128	-	606r
Transport (6)	11	-	-	49,547r	-	896r	-	367r	-	50,820r
Air	-	-	-	11,788	-	-	-	-	-	11,788
Rail	11	-	-	632r	-	-	-	364r	-	1,008r
Road	-	-	-	36,344	-	896r	-	2	-	37,242
National navigation	-	-	-	783	-	-	-	-	-	783
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	497	176	-	3,818r	35,332r	1,520r	-	18,532r	460	60,335r
Domestic	481	176	-	2,560r	26,704	1,267r	-	9,860r	52	41,100r
Public administration	8	-	-	302r	3,346	77	-	1,625r	402	5,760r
Commercial	3	-	-	370r	4,440	41r	-	6,714r	6	11,575r
Agriculture	1	-	-	338r	90	135r	-	333	-	897r
Miscellaneous	4	-	-	246r	751r	0	-	-	-	1,002r
Non energy use	-	126	-	6,411r	447	-	-	-	-	6,984r

(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 6.41 regarding renewables use in transport.

I.1 Aggregate energy balance 2011

Net calorific values

Thousand tonnes of oil equivalent

	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Supply										
Indigenous production	10,955r	-	53,998	-	40,760	5,130r	17,480r	-	-	128,324r
Imports	20,329	33	60,276	23,418	45,540	1,661	-	747	-	152,004
Exports	-351	-354	-34,911r	-28,627	-14,215	-155	-	-212	-	-78,825r
Marine bunkers	-	-	-	-3,089	-	-	-	-	-	-3,089
Stock change (4)	+508	-384	+634	+198	-1,751	-	-	-	-	-796
Primary supply	31,441r	-706	79,997r	-8,100	70,334	6,636r	17,480r	535	-	197,618r
Statistical difference(5)	-8r	-14	-310r	+27r	+16r	-	-	-54r	-	-343r
Primary demand	31,449r	-692	80,307r	-8,127	70,318r	6,636r	17,480r	589r	-	197,961r
Transfers	-	+5	-2,461r	+2,425r	-5	-	-1,855r	+1,855r	-	-36r
Transformation	-29,772r	2,217	-77,846	76,298r	-25,693r	-3,892r	-15,625	29,488	1,388	-43,437r
Electricity generation	-24,715	-656	-	-733	-23,918r	-3,804r	-15,625	29,488	-	-39,964r
Major power producers	-23,961r	-	-	-326	-21,477r	-1,055	-15,625	26,838r	-	-35,607r
Autogenerators	-754	-656	-	-407	-2,441	-2,749r	-	2,650r	-	-4,357r
Heat generation	-330	-48	-	-72	-1,775	-87	-	-	1,388	-924
Petroleum refineries	-	-	-77,846	77,177r	-	-	-	-	-	-669r
Coke manufacture	-3,831	3,704	-	-	-	-	-	-	-	-126
Blast furnaces	-721	-980	-	-	-	-	-	-	-	-1,701
Patent fuel manufacture	-175r	196	-	-74	-	-	-	-	-	-52r
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	2	623	-	5,085	4,868r	-	-	2,185r	182	12,945r
Electricity generation	-	-	-	-	-	-	-	1,413r	-	1,413r
Oil and gas extraction	-	-	-	543	4,114	-	-	50	-	4,707
Petroleum refineries	-	-	-	4,542	136	-	-	403	182	5,263
Coal extraction	2	-	-	-	17	-	-	73	-	93
Coke manufacture	-	353	-	-	-	-	-	7	-	360
Blast furnaces	-	270	-	-	35	-	-	22	-	326
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	81	-	81
Other	-	-	-	-	566r	-	-	138	-	704r
Losses	-	144	-	-	768	-	-	2,419	-	3,331
Final consumption	1,675r	763	-	65,511r	38,984r	2,744r	-	27,328r	1,206	138,212r
Industry	1,134	439	-	4,243	7,314	431r	-	8,801	769	23,132
Unclassified	-	40	-	3,401	2	431r	-	-	-	3,874r
Iron and steel	36	399	-	4	451	-	-	331	-	1,221
Non-ferrous metals	13	-	-	0	142	-	-	599	-	755
Mineral products	662	-	-	167	1,245	-	-	603	-	2,678
Chemicals	47	-	-	178	1,241	-	-	1,517	350	3,333
Mechanical engineering etc	7	-	-	1	438	-	-	624	-	1,070
Electrical engineering etc	3	-	-	0	196	-	-	549	-	748
Vehicles	36	-	-	129	291	-	-	446	-	902
Food, beverages etc	30	-	-	133	1,588	-	-	973	2	2,726
Textiles, leather etc	43	-	-	46	414	-	-	257	-	760
Paper, printing etc	67	-	-	29	577	-	-	938	1	1,612
Other industries	183r	-	-	8	399	-	-	1,832	417	2,839
Construction	6	-	-	147	330	-	-	132	-	615
Transport (6)	11	-	-	50,095r	-	1,063	-	366r	-	51,535r
Air	-	-	-	12,162	-	-	-	-	-	12,162
Rail	11	-	-	612r	-	-	-	364r	-	986r
Road	-	-	-	36,481	-	1,063	-	2	-	37,546
National navigation	-	-	-	840	-	-	-	-	-	840
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	530r	188	-	3,801	31,210r	1,251r	-	18,161r	437	55,577r
Domestic	504r	188	-	2,525	22,705	1,004r	-	9,595r	52	36,573r
Public administration	17	-	-	344	3,325	84	-	1,582	382	5,733
Commercial	4	-	-	407	4,315	29r	-	6,645r	3	11,402r
Agriculture	1	-	-	282	105	134r	-	339	-	861r
Miscellaneous	5r	-	-	243	761r	0	-	-	-	1,009r
Non energy use	-	135	-	7,372r	460	-	-	-	-	7,968r

(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 6.41 regarding renewables use in transport.

I.1 Aggregate energy balance 2010

Net calorific values

Thousand tonnes of oil equivalent

	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Supply										
Indigenous production	10,854r	-	65,450	-	51,476	4,957r	15,117r	-	-	147,854r
Imports	16,837	87	57,115	24,403	45,855	1,734	-	614	-	146,645
Exports	-511	-367	-43,667r	-26,851	-13,651	-164	-	-385	-	-85,597
Marine bunkers	-	-	-	-2,779	-	-	-	-	-	-2,779
Stock change (4)	+4,357	-154	-39	+612	+1,182	-	-	-	-	+5,957
Primary supply	31,537r	-434r	78,858r	-4,615	84,862	6,526r	15,117r	229	-	212,080r
Statistical difference(5)	+609r	-14	-23r	+62r	-2r	-	-	-36r	-	+596r
Primary demand	30,928r	-420	78,881r	-4,678r	84,864r	6,526r	15,117r	265r	-	211,484r
Transfers	-	+20	-2,613r	+2,601r	-20	-	-1,192r	+1,192r	-	-12r
Transformation	-29,130r	2,090	-76,268	74,145r	-31,019r	-3,594r	-13,925	31,364	1,361	-44,977r
Electricity generation	-24,278	-651	-	-1,123	-29,184r	-3,556r	-13,925	31,364	-	-41,354r
Major power producers	-23,535	-	-	-616	-26,751r	-846	-13,925	28,700r	-	-36,974r
Autogenerators	-743	-651	-	-507	-2,433	-2,709r	-	2,663	-	-4,380r
Heat generation	-275	-48	-	-63	-1,835	-39	-	-	1,361	-898
Petroleum refineries	-	-	-76,268	75,432r	-	-	-	-	-	-836r
Coke manufacture	-3,741	3,684	-	-	-	-	-	-	-	-57
Blast furnaces	-678	-1,110	-	-4	-	-	-	-	-	-1,793
Patent fuel manufacture	-158	215	-	-97	-	-	-	-	-	-40
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	3	644	-	4,875	5,511r	-	-	2,223r	94	13,350r
Electricity generation	-	-	-	-	-	-	-	1,385	-	1,385
Oil and gas extraction	-	-	-	504	4,730	-	-	48	-	5,282
Petroleum refineries	-	-	-	4,371	138	-	-	433	94	5,036
Coal extraction	3	-	-	-	20	-	-	82	-	105
Coke manufacture	-	362	-	-	-	-	-	8	-	369
Blast furnaces	-	282	-	-	50	-	-	25	-	357
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	91	-	91
Other	-	-	-	-	573r	-	-	150	-	723r
Losses	-	163	-	-	990	-	-	2,324	-	3,477
Final consumption	1,795r	884	-	67,194r	47,324r	2,932r	-	28,274	1,266	149,668r
Industry	1,246r	528	-	5,174	7,656	384r	-	8,987	822	24,797r
Unclassified	-	53	-	4,147	2	384r	-	-	-	4,586r
Iron and steel	44	475	-	6	474	-	-	330	-	1,329
Non-ferrous metals	14	-	-	0	144	-	-	578	-	736
Mineral products	667	-	-	188	1,436	-	-	625	-	2,916
Chemicals	48	-	-	293	1,352	-	-	1,587	415	3,695
Mechanical engineering etc	8	-	-	0	430	-	-	658	-	1,097
Electrical engineering etc	3	-	-	0	204	-	-	572	-	779
Vehicles	34	-	-	117	273	-	-	454	-	879
Food, beverages etc	28	-	-	148	1,543	-	-	991	1	2,711
Textiles, leather etc	45	-	-	44	420	-	-	262	-	771
Paper, printing etc	67	-	-	31	630	-	-	942	1	1,671
Other industries	284r	-	-	55	416	-	-	1,848	405	3,008r
Construction	3	-	-	144	332	-	-	139	-	619
Transport (6)	13	-	-	50,156	-	1,150r	-	365r	-	51,685r
Air	-	-	-	11,673	-	-	-	-	-	11,673
Rail	13	-	-	620	-	-	-	364r	-	997r
Road	-	-	-	36,971	-	1,150r	-	2	-	38,123
National navigation	-	-	-	891	-	-	-	-	-	891
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	536r	218	-	4,422	39,042r	1,398r	-	18,921r	444	64,981
Domestic	510r	218	-	3,242	30,149	1,125r	-	10,218	52	45,514r
Public administration	19	-	-	295	3,519	91	-	1,642	382	5,948
Commercial	2	-	-	359	4,436	23r	-	6,715r	10	11,544r
Agriculture	1	-	-	291	125	159	-	346	-	923
Miscellaneous	4	-	-	235	813	0	-	-	-	1,052r
Non energy use	-	139	-	7,442r	626	-	-	-	-	8,206

(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 6.41 regarding renewables use in transport.

I.1 Aggregate energy balance 2009

Net calorific values

Thousand tonnes of oil equivalent

	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Supply										
Indigenous production	10,487	-	70,905	-	53,759	4,570r	16,478r	-	-	156,200r
Imports	23,720	131	57,051r	22,887	35,400	1,194	-	568	-	140,951r
Exports	-465	-125	-47,093	-26,229	-10,610	-38	-	-322	-	-84,882r
Marine bunkers	-	-	-	-3,275	-	-	-	-	-	-3,275
Stock change (4)	-3,986	+1	+565	+344	-377	-	-	-	-	-3,453
Primary supply	29,756	6	81,428r	-6,273	78,172	5,726r	16,478r	246	-	205,540r
Statistical difference(5)	-36	-11	+89r	-123r	-165r	-	-	+12r	-	-235r
Primary demand	29,793	18	81,339r	-6,150r	78,337r	5,726r	16,478r	234r	-	205,775r
Transfers	-	+27	-2,983r	+2,973r	-27	-	-1,249r	+1,249r	-	-10r
Transformation	-28,143	1,476	-78,356r	75,621r	-29,566	-3,312r	-15,229	30,829r	1,301	-45,380r
Electricity generation	-23,413	-749	-	-1,475	-27,805	-3,240r	-15,229	30,829r	-	-41,083r
Major power producers	-22,586	-	-	-1,020	-25,402	-618	-15,229	28,159	-	-36,695
Autogenerators	-828	-749	-	-455	-2,403	-2,623r	-	2,670r	-	-4,388r
Heat generation	-281	-48	-	-61	-1,761	-72	-	-	1,301	-923
Petroleum refineries	-	-	-78,356r	77,303r	-	-	-	-	-	-1,053r
Coke manufacture	-3,654	3,369	-	-	-	-	-	-	-	-285
Blast furnaces	-631	-1,301	-	-62	-	-	-	-	-	-1,994
Patent fuel manufacture	-164	205	-	-83	-	-	-	-	-	-42
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	3	660	-	4,766	5,386r	-	-	2,236r	94	13,146r
Electricity generation	-	-	-	-	-	-	-	1,425	-	1,425
Oil and gas extraction	-	-	-	464	4,729	-	-	51	-	5,244
Petroleum refineries	-	-	-	4,302	124	-	-	389	94	4,909
Coal extraction	3	-	-	-	17	-	-	80	-	100
Coke manufacture	-	344	-	-	-	-	-	8	-	352
Blast furnaces	-	316	-	-	35	-	-	40	-	391
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	100	-	100
Other	-	-	-	-	481r	-	-	144	-	625r
Losses	-	68	-	-	862	-	-	2,411r	-	3,342r
Final consumption	1,646	793	-	67,678r	42,496r	2,414r	-	27,665	1,206	143,898r
Industry	1,094	478	-	4,855	7,063	354	-	8,576	763	23,182r
Unclassified	-	73	-	3,948	2	354	-	-	-	4,377
Iron and steel	41	404	-	7	414	-	-	311	-	1,178
Non-ferrous metals	16	-	-	1	126	-	-	522	-	666
Mineral products	676	-	-	192	1,367	-	-	603	-	2,837
Chemicals	46	-	-	203	1,351	-	-	1,522	347	3,469
Mechanical engineering etc	9	-	-	-	362	-	-	661	-	1,032
Electrical engineering etc	3	-	-	-	195	-	-	555	-	753
Vehicles	31	-	-	101	211	-	-	431	-	774
Food, beverages etc	32	-	-	188	1,392	-	-	924	1	2,536
Textiles, leather etc	46	-	-	43	380	-	-	259	-	728
Paper, printing etc	67	-	-	32	594	-	-	952	-	1,645
Other industries	124	-	-	8	379	-	-	1,700	415	2,625
Construction	3	-	-	133	289	-	-	136	-	561
Transport (6)	13	-	-	51,054	-	988	-	348r	-	52,404r
Air	-	-	-	12,114	-	-	-	-	-	12,114
Rail	13	-	-	617	-	-	-	347r	-	976r
Road	-	-	-	37,430	-	988	-	2	-	38,420
National navigation	-	-	-	894	-	-	-	-	-	894
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	539	190	-	4,025	34,900r	1,071r	-	18,741r	444	59,909r
Domestic	489	190	-	2,851	26,659	871r	-	10,193	52	41,304r
Public administration	16	-	-	350	3,279	75	-	1,672	382	5,774
Commercial	33	-	-	340	4,103	15	-	6,550r	9	11,050r
Agriculture	-	-	-	267	114	110	-	327	-	817
Miscellaneous	2	-	-	217	745r	0	-	-	-	964r
Non energy use	-	125	-	7,745r	533	-	-	-	-	8,403r

(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 6.41 regarding renewables use in transport.

I.1 Aggregate energy balance 2008

Net calorific values

Thousand tonnes of oil equivalent

	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Supply										
Indigenous production	10,740	-	74,666r	-	62,713	4,285r	12,965	-	-	165,369r
Imports	27,311	500	62,586	24,492	31,511	885	-	1,057	-	148,342
Exports	-441	-141	-50,104r	-29,587	-9,493	-	-	-109	-	-89,875r
Marine bunkers	-	-	-	-3,443	-	-	-	-	-	-3,443
Stock change (4)	-1,851	+162	+59r	+50	-239	-	-	-	-	-1,819r
Primary supply	35,758	520	87,208r	-8,488	84,492	5,170r	12,965	948	-	218,574r
Statistical difference(5)	+143	-7	+128r	-101r	+42	-	-	+24r	-	+230r
Primary demand	35,615	527	87,080r	-8,387r	84,450	5,170r	12,965	924r	-	218,344r
Transfers	-	-127	-3,052r	+3,050r	-5	-	-1,056	+1,056	-	-133r
Transformation	-33,859	1,586	-84,029r	81,362r	-31,127	-3,018r	-11,909	32,033r	1,537	-47,424r
Electricity generation	-28,446	-839	-	-1,490	-29,160	-2,972r	-11,909	32,033r	-	-42,782r
Major power producers	-27,524	-	-	-1,045	-26,656	-668	-11,909	29,367	-	-38,434
Autogenerators	-923	-839	-	-445	-2,504	-2,304r	-	2,666r	-	-4,348r
Heat generation	-298	-48	-	-62	-1,968	-47	-	-	1,537	-885
Petroleum refineries	-	-	-84,029r	83,117r	-	-	-	-	-	-911r
Coke manufacture	-4,066	3,967	-	-	-	-	-	-	-	-99
Blast furnaces	-810	-1,718	-	-203	-	-	-	-	-	-2,731
Patent fuel manufacture	-238	223	-	-	-	-	-	-	-	-15
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	4	805	-	5,194	5,459	-	-	2,227	72	13,761
Electricity generation	-	-	-	-	-	-	-	1,405	-	1,405
Oil and gas extraction	-	-	-	473	4,743	-	-	51	-	5,268
Petroleum refineries	-	-	-	4,720	150	-	-	374	72	5,316
Coal extraction	4	-	-	-	14	-	-	84	-	102
Coke manufacture	-	391	-	0	-	-	-	7	-	399
Blast furnaces	-	414	-	0	56	-	-	39	-	508
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	110	-	110
Other	-	-	-	-	497	-	-	156	-	653
Losses	-	232	-	-	606	-	-	2,395	-	3,233
Final consumption	1,753	948	-	70,831r	47,252	2,152r	-	29,391	1,465	153,793r
Industry	1,231	722	-	5,555	8,877	355	-	9,815	1,021	27,575
Unclassified	-	222	-	4,512	3	355	-	-	-	5,090
Iron and steel	47	500	-	6	565	-	-	400	-	1,519
Non-ferrous metals	19	-	-	4	180	-	-	636	-	839
Mineral products	721	-	-	213	1,765	-	-	682	-	3,382
Chemicals	62	-	-	232	1,615	-	-	1,744	592	4,245
Mechanical engineering etc	9	-	-	1	521	-	-	741	4	1,276
Electrical engineering etc	4	-	-	-	252	-	-	636	-	892
Vehicles	33	-	-	112	273	-	-	500	-	917
Food, beverages etc	27	-	-	227	1,626	-	-	1,054	10	2,943
Textiles, leather etc	51	-	-	47	484	-	-	292	-	874
Paper, printing etc	99	-	-	34	731	-	-	1,106	1	1,972
Other industries	135	-	-	14	480	-	-	1,868	413	2,910
Construction	25	-	-	152	382	-	-	156	-	716
Transport (6)	13	-	-	53,141	-	806	-	340r	-	54,299
Air	-	-	-	12,755	-	-	-	-	-	12,755
Rail	13	-	-	618	-	-	-	338r	-	969r
Road	-	-	-	38,815	-	806	-	2	-	39,622
National navigation	-	-	-	953	-	-	-	-	-	953
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	509	227	-	4,193	37,740	991r	-	19,236r	445	63,341r
Domestic	489	227	-	2,869	27,824	795r	-	10,301	52	42,557r
Public administration	9	-	-	440	3,877	67	-	1,750	387	6,530
Commercial	7	-	-	377	4,952	10r	-	6,835r	6	12,188
Agriculture	3	-	-	279	109	119	-	350	-	861
Miscellaneous	1	-	-	227	977	0	-	-	-	1,206
Non energy use	-	-	-	7,942r	635	-	-	-	-	8,577r

(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 6.41 regarding renewables use in transport.

I.1 Aggregate energy balance 2007

Net calorific values

Thousand tonnes of oil equivalent

	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Supply										
Indigenous production	10,162	-	79,610	-	64,912	3,696	14,927	-	-	173,307
Imports	26,785	732	59,475	26,052	26,159	390	-	741	-	140,334
Exports	-398	-170	-52,936	-30,856	-9,531	-108	-	-292	-	-94,291
Marine bunkers	-	-	-	-2,362	-	-	-	-	-	-2,362
Stock change(4)	+1,850	-22	+813	+1,116	+424	-	-	-	-	+4,181
Primary supply	38,399	540	86,963	-6,049	81,964	3,977	14,927	448	-	221,169
Statistical difference(5)	+12	-14	+15	-192	+14	-	-	-34	-	-198
Primary demand	38,388	554	86,947	-5,857	81,950	3,977	14,927	482	-	221,367
Transfers	-	-127	-2,462	+2,491	-6	-	-891	+891	-	-104
Transformation	-36,686	1,618	-84,485	82,423	-29,369	-2,877	-14,036	32,898	1,406	-49,108
Electricity generation	-31,259	-942	-	-1,090	-27,540	-2,877	-14,036	32,898	-	-44,845
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	83,771	-	-	-	-	-	-714
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	-	5,022	5,883	-	-	2,468	68	14,280
Electricity generation	-	-	-	-	-	-	-	1,521	-	1,521
Oil and gas extraction	-	-	-	414	4,970	-	-	48	-	5,432
Petroleum refineries	-	-	-	4,608	403	-	-	484	68	5,563
Coal extraction	3	-	-	-	7	-	-	85	-	95
Coke manufacture	-	388	-	-	0	-	-	8	-	396
Blast furnaces	-	449	-	0	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	-	74,035	45,756	1,101	-	29,377	1,338	154,301
Industry	1,205	811	-	5,731	10,319	242	-	9,699	896	28,903
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	-	-	224	1,306	-	-	672	-	2,923
Chemicals	72	-	-	181	2,332	-	-	1,737	480	4,802
Mechanical engineering etc	7	-	-	101	594	-	-	727	3	1,431
Electrical engineering etc	4	-	-	33	289	-	-	627	-	953
Vehicles	33	-	-	115	660	-	-	492	-	1,301
Food, beverages etc	23	-	-	266	1,778	-	-	1,039	2	3,108
Textiles, leather etc	49	-	-	112	470	-	-	288	-	919
Paper, printing etc	96	-	-	62	1,200	-	-	1,096	1	2,455
Other industries	127	-	-	1,879	714	-	-	1,808	411	4,939
Construction	0	-	-	159	184	-	-	155	-	498
Transport (6)	13	-	-	55,846	-	349	-	341	-	56,548
Air	-	-	-	13,211	-	-	-	-	-	13,211
Rail	13	-	-	608	-	-	-	339	-	960
Road	-	-	-	40,507	-	349	-	2	-	40,857
National navigation	-	-	-	1,521	-	-	-	-	-	1,521
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	480	184	-	4,132	34,645	510	-	19,338	442	59,731
Domestic	463	184	-	2,723	27,307	340	-	10,583	52	41,651
Public administration	9	-	-	458	3,285	80	-	1,727	383	5,943
Commercial	4	-	-	384	2,561	14	-	6,679	7	9,649
Agriculture	3	-	-	275	155	76	-	349	-	856
Miscellaneous	2	-	-	292	1,338	-	-	-	-	1,631
Non energy use	-	-	-	8,326	792	-	-	-	-	9,118

(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 6.41 regarding renewables use in transport.

I.1 Aggregate energy balance 2006

Net calorific values

Thousand tonnes of oil equivalent

	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Supply										
Indigenous production	10,847	-	79,644	-	72,011	3,379	17,889	-	-	183,770
Imports	31,034	691	61,628	27,781	18,884	470	-	884	-	141,374
Exports	-325	-119	-52,099	-29,660	-9,332	-96	-	-238	-	-91,869
Marine bunkers	-	-	-	-2,337	-	-	-	-	-	-2,337
Stock change(4)	-768	-152	-370	-883	-498	-	-	-	-	-2,670
Primary supply	40,789	420	88,804	-5,099	81,065	3,754	17,889	646	-	228,268
Statistical difference(5)	-143	-5	-107	+109	+11	-	-	+9	-	-126
Primary demand	40,932	425	88,911	-5,209	81,054	3,754	17,889	637	-	228,394
Transfers	-	-105	-2,617	+2,658	-4	-	-759	+759	-	-69
Transformation	-39,384	1,705	-86,294	83,941	-25,803	-2,919	-17,130	33,070	1,305	-51,510
Electricity generation	-34,054	-948	-	-1,236	-24,099	-2,919	-17,130	33,070	-	-47,315
Major power producers	-33,197	-	-	-793	-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	-	-62	-1,704	-	-	-	1,305	-780
Petroleum refineries	-	-	-86,294	85,462	-	-	-	-	-	-832
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	-	5,278	6,335	-	-	2,425	60	14,925
Electricity generation	-	-	-	-	-	-	-	1,591	-	1,591
Oil and gas extraction	-	-	-	440	5,359	-	-	47	-	5,846
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
Other	-	-	-	-	520	-	-	155	-	675
Losses	-	173	-	-	930	-	-	2,357	-	3,460
Final consumption	1,546	1,026	-	76,112	47,982	835	-	29,684	1,245	158,431
Industry	1,105	820	-	5,735	11,185	186	-	9,879	809	29,721
Unclassified	-	213	-	2,625	4	186	-	-	-	3,028
Iron and steel	1	607	-	18	649	-	-	504	-	1,779
Non-ferrous metals	35	-	-	50	240	-	-	647	-	973
Mineral products	656	-	-	188	1,378	-	-	677	-	2,899
Chemicals	80	-	-	177	2,657	-	-	1,753	371	5,037
Mechanical engineering etc	9	-	-	100	633	-	-	730	2	1,473
Electrical engineering etc	4	-	-	80	304	-	-	631	-	1,018
Vehicles	35	-	-	116	733	-	-	494	-	1,379
Food, beverages etc	16	-	-	266	1,835	-	-	1,042	1	3,160
Textiles, leather etc	47	-	-	123	514	-	-	289	-	973
Paper, printing etc	94	-	-	56	1,278	-	-	1,110	22	2,560
Other industries	128	-	-	1,773	763	-	-	1,844	414	4,922
Construction	-	-	-	163	198	-	-	158	-	519
Transport (6)	13	-	-	55,759	-	180	-	344	-	56,296
Air	-	-	-	13,299	-	-	-	-	-	13,299
Rail	13	-	-	594	-	-	-	342	-	949
Road	-	-	-	40,162	-	180	-	2	-	40,344
National navigation	-	-	-	1,704	-	-	-	-	-	1,704
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	427	206	-	4,512	36,184	469	-	19,461	436	61,695
Domestic	405	206	-	3,076	28,395	303	-	10,723	52	43,160
Public administration	12	-	-	461	3,545	75	-	1,721	376	6,189
Commercial	4	-	-	370	2,652	14	-	6,673	8	9,721
Agriculture	3	-	-	285	156	76	-	345	-	865
Miscellaneous	3	-	-	320	1,437	-	-	-	-	1,760
Non energy use	-	-	-	10,106	612	-	-	-	-	10,718

(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 6.41 regarding renewables use in transport.

I.1 Aggregate energy balance 2005

Net calorific values

Thousand tonnes of oil equivalent

	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Supply										
Indigenous production	12,078	-	88,110	-	79,397	3,116	19,044	-	-	201,745
Imports	27,107	623	61,042	23,239	13,413	419	-	960	-	126,803
Exports	-399	-89	-56,175	-30,526	-7,443	-	-	-244	-	-94,876
Marine bunkers	-	-	-	-2,049	-	-	-	-	-	-2,049
Stock change(4)	-1,335	-98	-396	+1,978	+102	-	-	-	-	+252
Primary supply	37,451	437	92,581	-7,358	85,470	3,534	19,044	715	-	231,875
Statistical difference(5)	+22	-7	-103	+444	+9	-	-	+20	-	+384
Primary demand	37,429	444	92,684	-7,801	85,461	3,534	19,044	696	-	231,491
Transfers	-	-114	-3,380	+3,385	-4	-	-674	+674	-	-112
Transformation	-35,815	1,654	-89,304	87,001	-27,406	-2,843	-18,370	33,327	1,366	-50,390
Electricity generation	-30,788	-971	-	-1,265	-25,666	-2,843	-18,370	33,327	-	-46,576
Major power producers	-29,952	-	-	-777	-22,879	-674	-18,370	30,564	-	-42,089
Autogenerators	-836	-971	-	-488	-2,787	-2,169	-	2,764	-	-4,488
Heat generation	-272	-48	-	-62	-1,740	-	-	-	1,366	-756
Petroleum refineries	-	-	-89,304	88,593	-	-	-	-	-	-711
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	-	6,082	6,745	-	-	2,337	98	16,042
Electricity generation	-	-	-	-	-	-	-	1,537	26	1,563
Oil and gas extraction	-	-	-	487	5,678	-	-	43	-	6,209
Petroleum refineries	-	-	-	5,595	400	-	-	383	71	6,449
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	-	76,503	50,458	691	-	29,981	1,268	161,510
Industry	1,121	787	-	5,907	11,719	176	-	9,976	831	30,517
Unclassified	-	209	-	2,516	4	176	-	-	-	2,905
Iron and steel	-	578	-	16	654	-	-	432	-	1,679
Non-ferrous metals	23	-	-	51	245	-	-	661	-	980
Mineral products	702	-	-	207	1,416	-	-	686	-	3,011
Chemicals	80	-	-	192	2,792	-	-	1,816	392	5,272
Mechanical engineering etc	9	-	-	112	664	-	-	742	3	1,530
Electrical engineering etc	3	-	-	34	320	-	-	638	-	995
Vehicles	36	-	-	132	771	-	-	502	-	1,441
Food, beverages etc	18	-	-	309	1,929	-	-	1,055	1	3,311
Textiles, leather etc	47	-	-	105	544	-	-	292	-	988
Paper, printing etc	93	-	-	86	1,369	-	-	1,137	31	2,716
Other industries	110	-	-	1,969	805	-	-	1,848	405	5,137
Construction	-	-	-	178	207	-	-	166	-	552
Transport (6)	3	-	-	55,213	-	69	-	349	-	55,633
Air	-	-	-	13,163	-	-	-	-	-	13,163
Rail	3	-	-	596	-	-	-	347	-	946
Road	-	-	-	40,165	-	69	-	2	-	40,236
National navigation	-	-	-	1,288	-	-	-	-	-	1,288
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	486	214	-	4,592	38,126	446	-	19,655	437	63,956
Domestic	450	214	-	2,927	29,552	269	-	10,809	52	44,273
Public administration	25	-	-	510	3,894	95	-	1,722	376	6,622
Commercial	4	-	-	365	2,956	14	-	6,780	10	10,129
Agriculture	6	-	-	356	175	69	-	344	-	949
Miscellaneous	1	-	-	433	1,549	-	-	-	-	1,983
Non energy use	-	-	-	10,791	612	-	-	-	-	11,404

(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 6.41 regarding renewables use in transport.

I.1 Aggregate energy balance 2004

Net calorific values

Thousand tonnes of oil equivalent

	Coal	Manufactured fuel(1)	Primary oils	Petroleum products	Natural gas(2)	Bioenergy & waste(3)	Primary electricity	Electricity	Heat	Total
Supply										
Indigenous production	14,814	-	99,180	-	86,770	2,525	18,746	-	-	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	-	-	-	-2,088	-	-	-	-	-	-2,088
Stock change (4)	-53	-84	-140	-307	-483	-	-	-	-	-1,067
Primary supply	36,621	517	96,900	-14,551	87,751	2,862	18,746	644	-	229,492
Statistical difference (5)	+1	-52	-156	-46	+54	-	-	+211	-	+12
Primary demand	36,620	569	97,057	-14,505	87,697	2,862	18,746	433	-	229,480
Transfers	-	-118	-3,905	+3,894	-3	-	-583	+583	-	-132
Transformation	-34,727	1,617	-93,152	91,832	-28,065	-2,320	-18,163	33,061	1,273	-48,642
Electricity generation	-29,799	-908	-	-604	-26,375	-2,320	-18,163	33,061	-	-45,108
Major power producers	-28,948	-	-	-144	-23,564	-441	-18,163	30,246	-	-41,013
Autogenerators	-852	-908	-	-460	-2,811	-1,878	-	2,815	-	-4,095
Heat generation	-282	-48	-	-67	-1,690	-	-	-	1,273	-814
Petroleum refineries	-	-	-93,152	92,794	-	-	-	-	-	-358
Coke manufacture	-3,797	3,886	-	-	-	-	-	-	-	89
Blast furnaces	-619	-1,541	-	-290	-	-	-	-	-	-2,451
Patent fuel manufacture	-229	229	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	5	804	-	5,437	6,846	-	-	2,291	16	15,399
Electricity generation	-	-	-	-	-	-	-	1,464	2	1,466
Oil and gas extraction	-	-	-	-	5,957	-	-	48	-	6,005
Petroleum refineries	-	-	-	5,435	238	-	-	402	14	6,090
Coal extraction	5	-	-	-	12	-	-	88	-	105
Coke manufacture	-	360	-	1	-	-	-	8	-	369
Blast furnaces	-	441	-	-	56	-	-	40	-	537
Patent fuel manufacture	-	3	-	-	-	-	-	-	-	3
Pumped storage	-	-	-	-	-	-	-	73	-	73
Other	-	-	-	-	583	-	-	167	-	750
Losses	-	194	-	-	635	-	-	2,642	-	3,472
Final consumption	1,888	1,070	-	75,785	52,147	543	-	29,144	1,258	161,835
Industry	1,173	815	-	6,506	11,914	228	-	9,584	832	31,053
Unclassified	-	239	-	2,477	5	228	-	-	-	2,949
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 5.12 regarding electricity use in transport and 6.41 regarding renewables use in transport.