

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

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	10,102	-	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)	11	-	-	49,083	-	896	-	352	-	50,341
Air	-	-	-	11,788	-	-	-	-	-	11,788
Rail	11	-	-	642	-	-	-	349	-	1,003
Road	-	-	-	36,344	-	896	-	2	-	37,242
National navigation	-	-	-	308	-	-	-	-	-	308
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	497	192	-	3,750	33,796	831	-	18,544	438	58,047
Domestic	481	192	-	2,559	26,240	592	-	9,862	52	39,979
Public administration	8	-	-	300	3,715	96	-	1,624	383	6,125
Commercial	3	-	-	367	2,867	22	-	6,725	3	9,986
Agriculture	1	-	-	285	119	121	-	333	-	858
Miscellaneous	4	-	-	239	855	0	-	-	-	1,099
Non energy use	-	-	-	6,679	460	-	-	-	-	7,140

(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

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	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	-	-	-	-	-	-	-	-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	-	-	-	7	-	-	73	-	82
Coke manufacture	-	353	-	-	-	-	-	7	-	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	-	-	0r	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	-	-	0r	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	-	-	-	-	-	12,162
Rail	11	-	-	650r	-	-	-	349	-	1,010r
Road	-	-	-	36,481	-	1,063r	-	2	-	37,546
National navigation	-	-	-	354r	-	-	-	-	-	354r
Pipelines	-	-	-	-	-	-	-	-	-	-
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
Non energy use	-	-	-	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

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

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	-	53,763	4,146r	16,482r	-	-	155,783r
Imports	23,720r	131	57,106r	22,887r	35,272	1,194r	-	568	-	140,879r
Exports	-465	-127	-47,195r	-26,229r	-10,610	-38	-	-322	-	-84,986r
Marine bunkers	-	-	-	-3,794r	-	-	-	-	-	-3,794r
Stock change (4)	-3,985r	+0	+565	+344	-377	-	-	-	-	-3,453r
Primary supply	29,757r	5	81,382r	-6,792r	78,048	5,301r	16,482r	246	-	204,428r
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	1,301	-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	-	-	-	-	-	-	-	1,425	-	1,425r
Oil and gas extraction	-	-	-	464r	4,729	-	-	51	-	5,244r
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	-	8r	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	-	-	0r	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	-	-	-	37,430	-	988	-	2	-	38,420
National navigation	-	-	-	375r	-	-	-	-	-	375r
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	539	207	-	4,025r	32,856r	580r	-	18,742	444	57,392r
Domestic	488	207	-	2,851r	25,731	386	-	10,193	52	39,908r
Public administration	16	-	-	350r	3,500r	75r	-	1,672	382	5,996r
Commercial	33	-	-	340r	2,692r	9r	-	6,551	9	9,634r
Agriculture	-	-	-	267r	136r	110r	-	327	-	839r
Miscellaneous	2	-	-	217r	796r	0	-	-	-	1,015r
Non energy use	-	-	-	7,920r	533r	-	-	-	-	8,453r

(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

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	-	74,538	-	62,713	3,803r	12,963r	-	-	164,757r
Imports	27,311r	500	62,586r	24,492r	31,500	885	-	1,057	-	148,332r
Exports	-441r	-141	-50,286	-29,587r	-9,493	-	-	-109	-	-90,057r
Marine bunkers	-	-	-	-4,001r	-	-	-	-	-	-4,001r
Stock change (4)	-1,851r	+162	+245	50r	-239	-	-	-	-	-1,633r
Primary supply	35,758r	520	87,083r	-9,045r	84,481	4,688r	12,963r	948	-	217,397r
Statistical difference(5)	+143r	-7	+184r	-76r	+345r	-3r	-	+20r	-	+606r
Primary demand	35,615	527	86,900r	-8,969r	84,136r	4,691r	12,963r	928r	-	216,791r
Transfers	-	-127	-2,870	+3,288r	-5	-	-1,055	+1,055	-	+287r
Transformation	-33,859	1,586	-84,030r	81,352r	-31,127	-3,010r	-11,909	32,031r	1,537	-47,430r
Electricity generation	-28,446	-839	-	-1,490r	-29,160	-2,960r	-11,909	32,031r	-	-42,773r
Major power producers	-27,524	-	-	-1,045r	-26,656	-668	-11,909	29,367	-	-38,434r
Autogenerators	-923	-839	-	-445r	-2,504	-2,293r	-	2,664r	-	-4,339r
Heat generation	-298	-48	-	-62	-1,968	-49	-	-	1,537	-888r
Petroleum refineries	-	-	-84,030r	83,107r	-	-	-	-	-	-923r
Coke manufacture	-4,066	3,967	-	-	-	-	-	-	-	-99
Blast furnaces	-810	-1,718	-	-203r	-	-	-	-	-	-2,731r
Patent fuel manufacture	-238	223	-	-	-	-	-	-	-	-15
Other	-	-	-	-	-	-	-	-	-	-
Energy industry use	4	805	-	5,194r	5,593	-	-	2,227	72	13,895r
Electricity generation	-	-	-	-	-	-	-	1,405	-	1,405
Oil and gas extraction	-	-	-	473r	4,743	-	-	51	-	5,268r
Petroleum refineries	-	-	-	4,720	385	-	-	374	72	5,551r
Coal extraction	4	-	-	-	7	-	-	84	-	95
Coke manufacture	-	391	-	0	-	-	-	7	-	399r
Blast furnaces	-	414	-	0	56	-	-	39	-	508
Patent fuel manufacture	-	-	-	-	-	-	-	-	-	-
Pumped storage	-	-	-	-	-	-	-	110	-	110
Other	-	-	-	-	403	-	-	156	-	559
Losses	-	232	-	-	1,054	-	-	2,395	-	3,681r
Final consumption	1,753	948	-	70,477	46,356	1,681r	-	29,391	1,465	152,072r
Industry	1,231	722	-	5,013r	10,365r	355r	-	9,815	1,021	28,521r
Unclassified	-	222	-	2,912r	3	355r	-	-	-	3,490r
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

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	26,043	26,159	390	-	741	-	140,325
Exports	-398	-170	-52,936	-30,822	-9,531	-108	-	-292	-	-94,257
Marine bunkers	-	-	-	-2,356	-	-	-	-	-	-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	-	-	-	7	-	-	85	-	95
Coke manufacture	-	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	0	-	-	158	184	-	-	155	-	497
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	-	-	290	1,338	-	-	-	-	1,630
Non energy use	-	-	-	8,324	792	-	-	-	-	9,116

(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 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	27,775	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	-	-	-	-	-	-	-	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
Other	-	-	-	-	520	-	-	155	-	675
Losses	-	173	-	-	930	-	-	2,357	-	3,460
Final consumption	1,546	1,026	-	76,070	47,982	835	-	29,684	1,245	158,389
Industry	1,105	820	-	5,716	11,185	186	-	9,879	809	29,702
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	-	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
Miscellaneous	3	-	-	317	1,437	-	-	-	-	1,758
Non energy use	-	-	-	10,104	612	-	-	-	-	10,717

(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 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	23,226	13,413	419	-	960	-	126,791
Exports	-399	-89	-56,175	-30,495	-7,443	-	-	-244	-	-94,845
Marine bunkers	-	-	-	-2,044	-	-	-	-	-	-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	3	-	-	34	320	-	-	638	-	995
Vehicles	36	-	-	131	771	-	-	502	-	1,441
Food, beverages etc	18	-	-	307	1,929	-	-	1,055	1	3,309
Textiles, leather etc	47	-	-	104	544	-	-	292	-	987
Paper, printing etc	93	-	-	86	1,369	-	-	1,137	31	2,715
Other industries	110	-	-	1,956	805	-	-	1,848	405	5,124
Construction	-	-	-	177	207	-	-	166	-	551
Transport (6)	3	-	-	55,203	-	69	-	349	-	55,624
Air	-	-	-	13,163	-	-	-	-	-	13,163
Rail	3	-	-	592	-	-	-	347	-	942
Road	-	-	-	40,165	-	69	-	2	-	40,236
National navigation	-	-	-	1,283	-	-	-	-	-	1,283
Pipelines	-	-	-	-	-	-	-	-	-	-
Other	486	214	-	4,581	38,126	446	-	19,655	437	63,946
Domestic	450	214	-	2,926	29,552	269	-	10,809	52	44,272
Public administration	25	-	-	507	3,894	95	-	1,722	376	6,619
Commercial	4	-	-	363	2,956	14	-	6,780	10	10,126
Agriculture	6	-	-	355	175	69	-	344	-	948
Miscellaneous	1	-	-	430	1,549	-	-	-	-	1,980
Non energy use	-	-	-	10,790	612	-	-	-	-	11,402

(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

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 5.11 regarding electricity use in transport and 6.24 regarding renewables use in transport.