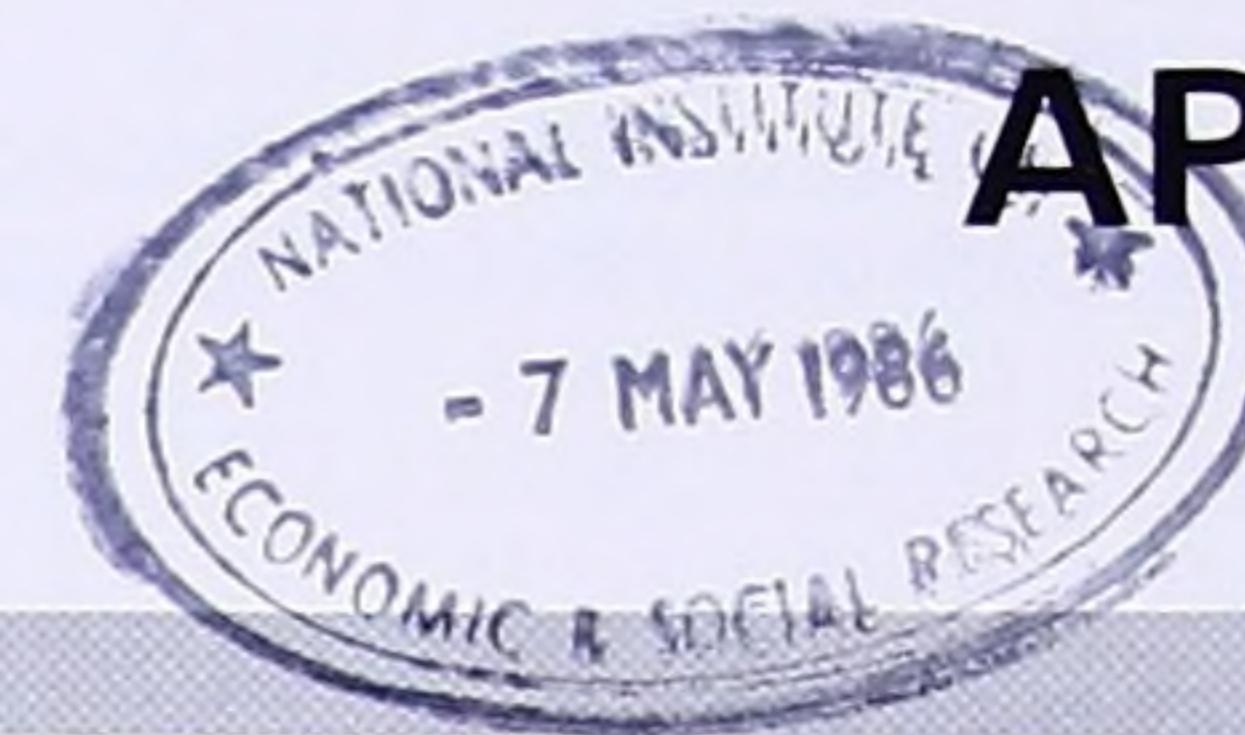


# DEPARTMENT OF ENERGY

# ENERGY TRENDS

## A Statistical Bulletin



APRIL 1986



### Total Energy

Total inland energy consumption, on a primary fuel input basis, in the three months December 1985 to February 1986 was 2.3 per cent higher than in the same three months a year earlier. As the statistics of coal and oil for final consumption relate mainly to deliveries comparisons with the earlier period continue to be affected by the unusual patterns of supply and stock change experienced during the coal dispute. Consumption of coal in the period December 1985 to February 1986 was 85.1 per cent higher than in the corresponding period of 1984/85, whilst that of petroleum was 33.8 per cent lower. Consumption of natural gas rose by 4.5 per cent, whilst that of nuclear electricity fell by 9.2 per cent.

Total consumption on a seasonally adjusted and temperature corrected basis was 2.1 per cent higher than a year earlier, with consumption of coal up by 86.9 per cent, that of petroleum 33.5 per cent lower and natural gas 4.6 per cent higher.

### Energy Consumption by Final Users

Comparisons between 1985 and 1984 are affected by the dispute in the coal mining industry.

Provisional data for energy consumption by final users in 1985 as a whole show that total final consumption on a heat supplied basis was 4.6 per cent higher than in 1984. Consumption by the domestic sector rose by 10.8 per cent, partly reflecting the relatively poor weather conditions in 1985, and partly the large changes in consumers' stocks (reflected by statistics of deliveries into consumption) both during and following the coal dispute. There were increases in consumption by the iron and steel industry, industries other than iron and steel and the transport sector of 3.9 per cent, 1.5 per cent and 1.9 per cent respectively. Consumption by other final users rose by 3.8 per cent. Total consumption of coal (including other solid fuel and other coal derived fuels) rose by 20.9 per cent, gas by 6.5 per cent and electricity by 4.4 per cent, whilst total consumption of petroleum fell by 1.3 per cent.

Provisional figures for the fourth quarter of 1985 show that total final consumption rose by 2.5 per cent compared with the fourth quarter of 1984, with consumption of coal, other solid fuel and other coal derived fuels up by 13.3 per cent, gas by 6.0 per cent and electricity by 3.7 per cent. Consumption of petroleum fell by 4.0 per cent.

### Coal

Provisional figures for the three months December 1985 to February 1986 show that total coal production was 27.0 million tonnes, 15.5 million tonnes more than a year earlier, with deep-mined coal accounting for 23.0 million tonnes and opencast 3.1 million tonnes.

Use of home produced and imported coal in this period was 34.1 million tonnes — 85.1 per cent more than in the same period a year ago. Consumption at power stations more than doubled and consumption by coke ovens and other conversion industries was 19.3 per cent higher. Disposals by collieries and opencast sites to industry and to domestic and other final consumers were 40.1 per cent and 12.6 per cent higher respectively.

Total stocks of coal at the end of February 1986 amounted to 31.7 million tonnes, a fall of 1.2 million tonnes during the month and 2.4 million tonnes lower than at the end of February 1985. Stocks at power stations decreased by 1.4 million tonnes during the month of February

to 21.0 million tonnes, whilst stocks at collieries and opencast sites rose by 0.1 million tonnes, to 8.9 million tonnes.

### Gas

In the three months December 1985 to February 1986 gas sent out by the public supply system rose by 3.8 per cent compared with the same period a year earlier. Indigenous supplies were 77.6 per cent of total, compared with 76.7 per cent in the same months a year earlier.

Provisional figures for 1985 show that sales of gas by the public supply system were 6.3 per cent higher than in 1984, with increased sales to all sectors except the iron and steel industry. Provisional figures for the fourth quarter of 1985 show that total sales increased by 4.2 per cent compared with the fourth quarter of 1984.

### Electricity

During the period December 1985 to February 1986 2.8 per cent more electricity was supplied by the public supply system than in the same period a year earlier. Total fuel used, on a coal equivalent basis, was 1.8 per cent higher.

Provisional figures for sales of electricity by the public supply system in 1985 show that total sales increased by 5.0 per cent compared with 1984, with higher sales to all sectors except the iron and steel industry. Shorter term figures show that in the fourth quarter of 1985 total sales increased by 5.3 per cent compared with the same quarter of 1984.

This month's supplementary data gives details of electricity generated by industry and transport undertakings in Great Britain. Provisional data for 1985 as a whole show an overall increase of 6.7 per cent compared with 1984. Generation increased in the iron and steel industry, in the engineering and other metal trades sector, at industrial nuclear power stations for the public electricity supply system, and in the other industries sector, but decreased in the food, drink and tobacco sector; chemical and allied trades (other than the nuclear power stations referred to above); textiles, leather and clothing; and paper, printing and stationery sectors. Transport undertakings also generated less than 1984.

Shorter term figures show that in the fourth quarter of 1985 15.7 per cent more electricity was generated by industry and transport undertakings in Great Britain than in the same quarter in 1984, virtually all by industry.

### Petroleum

Provisional figures for the three months December 1985 to February 1986 show that indigenous crude oil production was 32.6 million tonnes, 1.8 per cent less than a year earlier. Production of natural gas liquids was 1.4 million tonnes.

Total output of petroleum products in the period was 4.5 per cent lower than a year ago, with increased output of motor spirit, aviation turbine fuel and bitumen more than offset by reduced output of naphtha, burning oil, gas/diesel oil, fuel oil and lubricating oils.

Deliveries of petroleum products for inland consumption in the period December 1985 to February 1986 were 32.8 per cent lower than a year earlier. Excluding deliveries of fuel oil, which decreased by 74.9 per cent, deliveries of other petroleum products increased by 0.3 per cent. Increased deliveries of naphtha, motor spirit, aviation turbine fuel, derv fuel, lubricating oils and bitumen offset reduced deliveries of burning oil, gas/diesel oil (other than derv), and butane and propane.

Haw

Figures for the latest periods and the corresponding averages or totals are provisional and are liable to subsequent revision.

The figures have not been adjusted for temperature or seasonal factors except where noted in Table 1. Monthly figures relate to four week periods except where otherwise indicated.

Due to rounding the sum of the constituent items may not equal the totals.

Percentage changes relate to the corresponding period a year ago. These comparisons can be affected by calendar differences.

They are calculated from unrounded figures but are shown only as (+) or (-) when the percentage change is very large. All figures relate to the United Kingdom unless otherwise indicated.

### Symbols used in the tables

- .. not available
- nil or less than half the final digit shown
- \* five-week period
- p provisional

## Total energy

TABLE 1. Inland energy consumption: primary fuel input basis

	Total	Coal <sup>1</sup>	Petroleum <sup>2</sup>	Natural <sup>3</sup> gas	Nuclear electricity	Hydro electricity
Million tonnes of coal or coal equivalent						
1981	317.2	118.2	110.9	72.1	13.70	2.30
1982	311.9	110.7	111.1	71.7	16.00	2.40
1983	312.9	111.5	106.1	74.8	18.10	2.37
1984	312.2	79.0	135.2	76.5	19.48	2.08
1985 p	326.1	105.4	115.0	81.4	22.15	2.16
Per cent change	+4.5	+33.4	-14.9	+6.4	+13.7	+3.9
1984 Dec*	34.8	6.2	16.1	9.9	2.30	0.34
1985 Jan	30.8	6.0	12.7	9.8	2.07	0.18
Feb	31.0	6.2	13.2	9.3	2.05	0.18
Total	96.5	18.4	41.9	29.0	6.42	0.70
1985 Dec*	35.1	12.5	10.1	10.0	2.19	0.31
1986 Jan	30.2	10.3	8.2	9.7	1.72	0.25
Feb p	33.4	11.2	9.5	10.6	1.92	0.20
Total	98.8	34.1	27.8	30.3	5.83	0.76
Per cent change	+2.3	+85.1	-33.8	+4.5	-9.2	+8.4

	Total	Coal <sup>1</sup>	Petroleum <sup>2</sup>	Natural <sup>3</sup> gas	Nuclear electricity	Hydro electricity
Million tonnes of oil or oil equivalent						
1981	186.6	69.6	65.2	42.4	8.10	1.30
1982	183.5	65.1	65.4	42.2	9.40	1.40
1983	184.0	65.6	62.4	44.0	10.65	1.39
1984	183.7	46.5	79.5	45.0	11.46	1.22
1985 p	191.8	62.0	67.7	47.9	13.03	1.27
Per cent change	+4.5	+33.4	-14.9	+6.4	+13.7	+3.9
1984 Dec*	20.5	3.6	9.5	5.8	1.35	0.20
1985 Jan	18.1	3.6	7.4	5.8	1.22	0.10
Feb	18.2	3.6	7.8	5.5	1.20	0.10
Total	56.8	10.8	24.7	17.1	3.78	0.41
1985 Dec*	20.6	7.4	5.9	5.9	1.29	0.18
1986 Jan	17.8	6.1	4.8	5.7	1.01	0.15
Feb p	19.7	6.6	5.6	6.2	1.13	0.12
Total	58.1	20.0	16.3	17.8	3.43	0.45
Per cent change	+2.3	+85.1	-33.8	+4.5	-9.2	+8.4

Seasonally adjusted and temperature corrected<sup>4</sup> (annual rates)<sup>5</sup>

1984 Dec*	312.6	61.0	149.1	79.0	21.48	2.07
1985 Jan	318.2	66.4	147.8	79.0	22.83	2.13
Feb	321.5	63.4	153.2	80.3	22.51	2.06
Average	317.4	63.6	150.1	79.4	22.27	2.09
1985 Dec*	324.4	127.0	93.2	81.5	20.59	2.16
1986 Jan	324.3	119.7	99.2	84.3	18.70	2.24
Feb p	323.3	109.9	106.8	83.4	21.03	2.19
Average	324.0	118.9	99.7	83.1	20.11	2.20
Per cent change	+2.1	+86.9	-33.5	+4.6	-9.7	+5.1

183.9	35.9	87.7	46.5	12.64	1.22
187.2	39.1	87.0	46.4	13.43	1.25
189.1	37.3	90.1	47.2	13.24	1.21
186.7	37.4	88.3	46.7	13.10	1.23
190.8	74.7	54.8	47.9	12.11	1.27
190.7	70.4	58.4	49.6	11.00	1.32
190.2	64.7	62.8	49.0	12.37	1.29
190.6	69.9	58.7	48.9	11.83	1.29
+2.1	+86.9	-33.5	+4.6	-9.7	+5.1

1. Consumption by fuel producers plus disposals (including imports) to final users, plus (for annual figures only) net foreign trade and stock change in other solid fuels. 2. Inland deliveries for energy use plus refinery fuel and losses minus the differences between deliveries and actual consumption at power stations and gas works. 3. Including non-energy use and excluding gas flared or re-injected. 4. Coal, petroleum and natural gas are temperature corrected. 5. For hydro electricity the estimated annual out-turn.

### Energy: Total inland consumption (primary fuel input basis)<sup>1</sup>

Million tonnes coal equivalent

Million tonnes oil equivalent

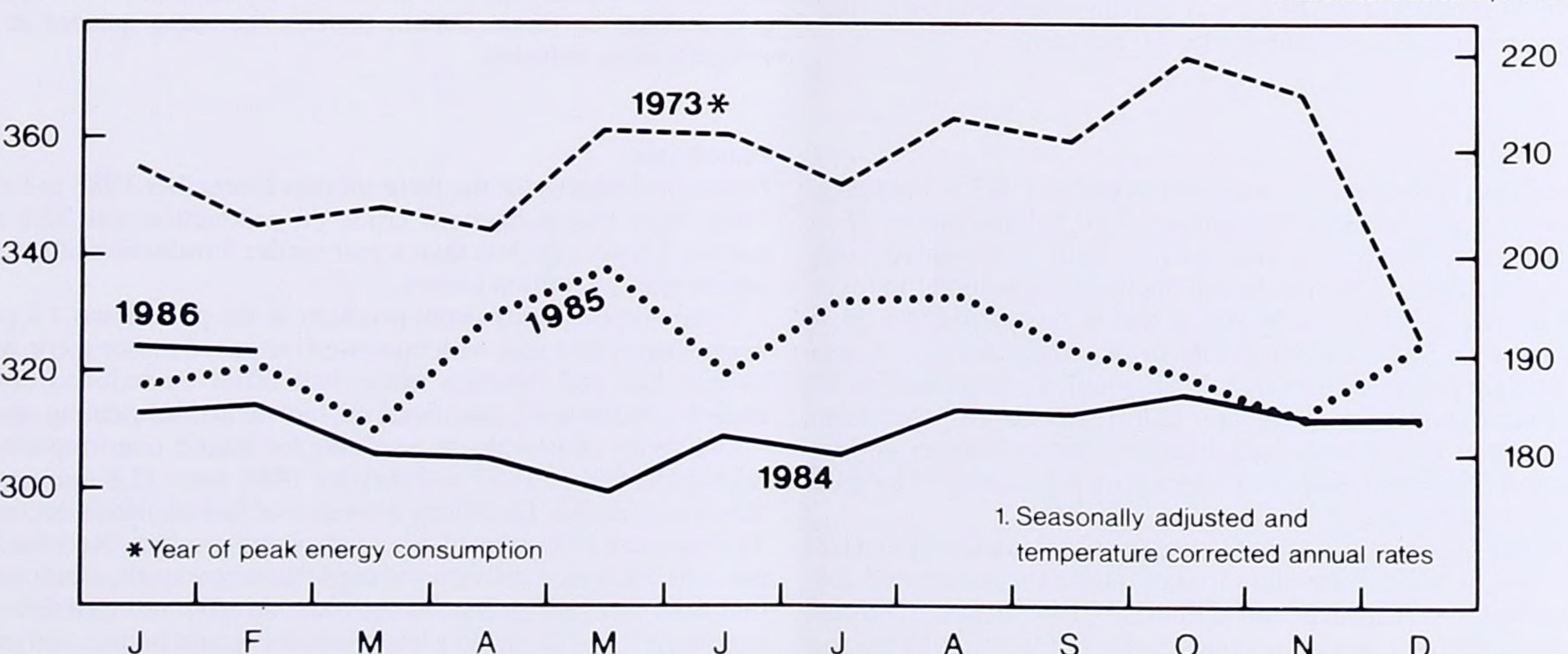


TABLE 2. Supply and use of fuels

Million thermes

	1984	1985p	Per cent change	1984				1985p				Per <sup>1</sup> cent change
				1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
<b>PRIMARY FUELS AND EQUIVALENTS</b>												
Production of primary fuels												
Coal	12,195	22,534	+ 84.8	5,162	2,174	2,183	2,676	3,511	5,912	6,127	6,984	(+)
Petroleum <sup>2</sup>	54,643	55,357	+ 1.3	13,838	1,317	1,319	1,444	14,308	13,453	13,242	14,354	- 0.6
Natural gas <sup>3</sup>	14,118	15,575	+ 10.3	5,320	2,676	1,880	4,123	5,786	3,096	2,176	4,517	+ 9.6
Primary electricity	4,958	5,591	+ 12.8	1,351	1,178	1,039	1,388	1,625	1,307	1,279	1,380	- 0.6
Total	85,914	99,056	+ 15.3	25,671	19,205	18,294	22,628	25,230	23,767	22,824	27,235	+ 20.4
Arrivals, Petroleum <sup>4</sup>	23,480	21,017	- 10.5	3,966	5,869	6,362	7,281	6,905	4,403	4,694	5,015	- 31.1
Other	8,172	8,812	+ 7.8	1,997	2,001	1,656	2,480	2,592	2,261	1,670	2,289	- 7.7
Shipments	40,872	43,281	+ 5.9	10,590	9,121	9,939	11,219	11,219	10,413	10,570	11,079	- 1.2
Marine Bunkers	941	889	- 5.5	171	229	303	239	212	221	249	207	- 13.4
Stock change <sup>5</sup>												
Solid fuels	+ 4,701	+ 662		+ 2,604	+ 1,246	+ 320	+ 532	+ 773	+ 326	- 401	- 36	
Crude petroleum	+ 288	- 97		+ 456	- 568	+ 29	+ 371	+ 129	- 50	+ 202	- 378	
Petroleum products	+ 78	+ 256		+ 31	- 10	+ 16	+ 38	+ 378	- 91	+ 79	- 110	
Natural gas	-	- 207		-	-	-	-	-	- 38	- 126	- 43	
Non-energy use	3,512	3,681	+ 4.8	923	856	876	869	883	875	987	936	+ 7.7
Statistical difference <sup>6</sup>	+ 44	- 639		+ 233	- 236	+ 138	+ 135	+ 493	- 455	- 527	- 150	
Total primary <sup>7</sup> energy input	77,352	81,009	+ 4.7	23,274	17,301	15,697	21,138	24,186	18,614	16,609	21,600	+ 2.2
Conversion losses etc. <sup>8</sup>	23,300	24,447	+ 4.9	6,735	5,161	5,044	6,399	7,058	5,697	5,206	6,486	+ 1.4
Final energy consumption	54,052	56,562	+ 4.6	16,539	12,140	10,653	14,739	17,128	12,917	11,403	15,114	+ 2.5
<b>FINAL CONSUMPTION BY USER<sup>9</sup></b>												
Iron and steel industry												
Coal	14	9	- 35.7	6	4	2	2	3	2	1	3	+ 25.0
Other solid fuel <sup>10</sup>	1,634	1,754	+ 7.3	450	369	391	423	426	480	439	409	- 3.3
Other coal derived fuels <sup>11</sup>	207	280	+ 35.3	52	43	50	64	68	71	71	70	+ 9.2
Gas <sup>12</sup>	387	367	- 5.2	101	97	85	103	92	98	85	92	- 10.7
Electricity	309	302	- 2.3	85	79	70	76	79	79	69	75	- 1.8
Petroleum	357	309	- 13.4	112	93	68	85	103	72	64	70	- 17.8
Total	2,908	3,021	+ 3.9	805	684	666	755	771	802	729	719	- 4.7
Other industries												
Coal	1,554	1,921	+ 24.4	427	359	341	424	418	465	454	584	+ 38.0
Other solid fuel <sup>10</sup>	119	85	- 28.6	28	26	31	25	24	14	19	28	+ 6.0
Other coal derived fuels <sup>11</sup>	14	29	(+)	12	5	2	7	7	8	6	8	+ 12.5
Gas <sup>12</sup>	5,608	5,736	+ 2.3	1,667	1,307	1,113	1,531	1,609	1,388	1,159	1,580	+ 3.2
Electricity	2,340	2,383	+ 1.8	616	560	553	611	645	579	559	600	- 1.9
Petroleum	3,942	3,615	- 8.3	1,223	884	754	1,081	1,284	767	694	870	- 19.5
Total	13,567	13,769	+ 1.5	3,974	3,142	2,795	3,680	3,987	3,222	2,891	3,669	- 0.3
Transport sector												
Coal and other solid fuel	1	4	(+)	1	0	0	1	0	0	0	0	-
Electricity	98	100	+ 2.0	26	25	23	24	27	25	23	25	+ 4.4
Petroleum	14,900	15,182	+ 1.9	3,458	3,751	3,920	3,769	3,474	3,828	4,019	3,861	+ 2.4
Total	14,999	15,286	+ 1.9	3,486	3,776	3,943	3,794	3,502	3,852	4,043	3,887	+ 2.4
Domestic sector												
Coal	1,879	2,533	+ 34.8	570	381	366	560	583	680	626	644	+ 15.0
Other solid fuel <sup>10</sup>	422	529	+ 25.4	144	87	81	105	137	152	128	112	+ 6.9
Gas <sup>12</sup>	8,931	9,682	+ 8.4	3,719	1,656	902	2,655	4,074	1,781	972	2,855	+ 7.5
Electricity	2,863	3,014	+ 5.3	917	621	523	803	964	649	558	843	+ 5.0
Petroleum	947	902	- 4.8	314	184	171	277	325	140	172	265	- 4.3
Total	15,042	16,660	+ 10.8	5,663	2,930	2,044	4,399	6,083	3,402	2,456	4,719	+ 7.3
Other final users <sup>13</sup>												
Coal	453	446	- 1.5	135	101	77	139	144	97	78	127	- 8.9
Other solid fuel <sup>10</sup>	119	154	+ 29.4	32	29	26	31	44	41	38	31	- 2.2
Gas <sup>12</sup>	2,329	2,587	+ 11.1	950	458	223	699	1,051	511	263	762	+ 9.0
Electricity	2,102	2,250	+ 7.0	612	479	451	558	640	511	491	608	+ 8.7
Petroleum	2,533	2,389	- 5.7	881	541	428	684	905	478	414	592	- 13.3
Total	7,536	7,826	+ 3.8	2,612	1,609	1,205	2,111	2,784	1,638	1,285	2,119	+ 0.4
Total final users	54,052	56,562	+ 4.6	16,539	12,140	10,653	14,739	17,128	12,917	11,403	15,114	+ 2.5
<b>FINAL CONSUMPTION BY FUEL<sup>9</sup></b>												
Coal	3,891	4,910	+ 26.2	1,139	845	786	1,124	1,149	1,244	1,159	1,358	+ 20.7
Other solid fuel <sup>10</sup>	2,293	2,522	+ 10.0	653	512	529	586	631	687	623	581	- 1.0
Other coal derived fuels <sup>11</sup>	220	311	+ 41.4									

# Coal

TABLE 3. Coal production, foreign trade and deep-mined tonnage lost

Thousand tonnes

	Production			Net imports	Imports <sup>2</sup>	Shipments <sup>3</sup>	Tonnage lost (deep-mined) <sup>4</sup>	
	Total <sup>1</sup>	Deep-mined	Opencast				Recognised holidays and rest days	Disputes
1981	127,469	110,473	14,828	-4,823	4,290	9,113	13,204	1,191
1982	124,711	106,161	15,266	-3,384	4,063	7,447	12,401	3,468
1983	119,254	101,742	14,706	-2,105	4,456	6,561	12,021	4,499
1984	51,182	35,243	14,306	+6,601	8,894	2,293	11,083	64,972
1985 p	94,047	75,224	15,569	+10,203	12,635	2,432	8,741	14,035
Per cent change	+83.8	(+)	+8.8	-	+42.1	+6.1	-21.1	-78.4
1984 Dec*	3,853	2,509	1,241	+932	998	66	1,965	6,015
1985 Jan	3,244	2,328	863	+1,046	1,079	33	1,008	5,032
Feb	4,438	3,062	1,221	+1,000	1,024	24	-	5,562
Total	11,534	7,899	3,325	+2,978	3,101	123	2,973	16,609
1985 Dec*	10,069	8,427	1,204	+530	849	319	1,633	28
1986 Jan	7,599	6,583	796	+571	847	276	1,164	26
Feb p	9,332	7,969	1,117	+723	990	267	-	55
Total	27,000	22,978	3,117	+1,824	2,686	862	2,796	108
Per cent change	(+)	(+)	-6.3	-	-13.4	(+)	-6.0	-99.3

1. Includes an estimate for slurry, etc., recovered and disposed of otherwise than by the National Coal Board. 2. As recorded in the Overseas Trade Statistics. 3. Shipments as recorded by the NCB; the figures may differ from those published in the Overseas Trade Statistics. 4. NCB only.

TABLE 4. Inland coal use

Thousand tonnes

	Total	Fuel producers (consumption)				Final users (disposals by collieries and opencast sites)		
		Collieries	Secondary			Industry <sup>3</sup>	Domestic	
			Power stations <sup>1</sup>	Coke ovens	Other <sup>2</sup> conversion industries		House coal <sup>34</sup>	Other <sup>5</sup>
1981	118,386	616	87,226	10,805	2,458	6,990	6,851	1,603
1982	110,998	534	80,228	10,406	2,326	7,122	6,719	1,756
1983	111,475	486	81,565	10,448	2,114	7,193	6,212	1,660
1984	77,309	209	53,411	8,246	1,300	6,003	4,844	1,562
1985 p	105,364	332	73,940	11,122	2,176	7,452	6,533	2,102
Per cent change	+36.3	+58.6	+38.4	+34.9	+67.3	+24.1	+34.9	+34.6
1984 Dec*	6,190	17	3,769	1,028	-	516	500	162
1985 Jan	6,041	21	3,918	878	-	468	466	129
Feb	6,183	27	3,886	918	-	513	525	122
Total	18,414	64	11,574	2,825	-	1,497	1,490	414
1985 Dec*	12,523	48	9,283	1,296	-	848	685	168
1986 Jan	10,347	29	7,975	1,036 <sup>7</sup>	-	545	500	129
Feb p	11,214	39	8,477	1,039 <sup>7</sup>	-	704	653	147
Total	34,084	116	25,735	3,371 <sup>7</sup>	-	2,097	1,838	443
Per cent change	+85.1	+81.3	(+)	+19.3	-	+40.1	+23.4	+7.0
								-12.3

1. Public supply and railway and transport power stations. 2. Gas works, low temperature carbonisation and patent fuel plants. 3. For 1984 onwards, includes estimated proportion of total imports. 4. Including miners' coal. 5. Anthracite, dry steam coal and imported naturally smokeless fuels. 6. Includes public administration and commerce. 7. Partly estimated.

TABLE 5. Stocks of coal<sup>1</sup> at end of period: Great Britain

Thousand tonnes

	Total	Distributed				Undistributed		
		Total distributed stocks	Power stations	Coke ovens	Other	Total undistributed stocks	Collieries	Opencast sites
1981	42,253	20,136	18,263	1,730	143	22,117	17,435	4,682
1982	52,377	30,422	28,291	1,992	139	21,955	17,675	4,280
1983	57,960	33,964	31,907	1,786	271	23,996	18,909	5,088
1984	36,548	15,794	14,402	1,199	193	20,753	10,969	9,784
1985 p	34,970	25,752	23,942	1,624	186	9,218	5,698	3,520
1984 Dec	36,548	15,794	14,402	1,199	193	20,753	10,969	9,784
1985 Jan	34,709	14,138	12,799	1,155	184	20,570	10,694	9,875
Feb	34,087	12,975	11,606	1,171	198	21,113	10,873	10,240
1985 Dec p	34,970	25,752	23,942	1,624	186	9,218	5,698	3,520
1986 Jan	32,900	24,145	22,386	1,599	160	8,755	5,567	3,188
Feb p	31,693	22,800	20,992	1,671	137	8,893	5,991	2,902
Absolute change: in latest month on a year ago	-1,207 -2,394	-1,345 +9,825	-1,394 +9,386	+72 +500	-23 -61	+138 -12,220	+424 -4,882	-286 -7,338

1. Excluding distributed stocks held in merchants' yards, etc., mainly for the domestic market, and stocks held by the industrial sector.

TABLE 6. Colliery manpower and productivity at NCB mines

	Wage earners on colliery books				Absence percentage			Average output per manshift worked <sup>4</sup>		
	Total <sup>1</sup>	Underground <sup>1</sup>	Recruitment	Wastage	Total	Voluntary <sup>2</sup>	Involuntary <sup>3</sup>	Overall	Underground	
									Total	Production <sup>5</sup>
	Thousands		Number		Per cent			Tonnes		
1981	215	174	6,123	18,771	11.4	3.5	7.9	2.38	3.00	9.43
1982	206	167	6,709	16,327	10.6	3.6	7.0	2.41	3.03	9.88
1983	187	152	3,180	22,218	10.6	3.4	7.2	2.51	3.14	10.58
1984	174	141	1,511	14,001	7.9	1.5	6.4	2.24	2.77	10.31
1985 p	148 <sup>6</sup>	121 <sup>6</sup>	3,649	29,261	10.9	3.1	7.8	2.49	3.12	11.36
Per cent change	- 14.7	- 14.3	(+)	(+)				+ 10.8	+ 12.6	+ 10.2
1984 Dec*	174	141	140	593	5.4	1.1	4.4	2.16	2.78	11.39
1985 Jan	173	141	249	1,120	5.4	1.3	4.2	2.09	2.65	10.72
Feb	172	140	390	870	5.6	1.4	4.2	2.20	2.84	11.19
1985 Dec*	148	121	151	3,782	11.8	3.4	8.4	2.94	3.67	13.21
1986 Jan	141	115	152	7,721	10.6	3.8	6.8	2.89	3.60	12.80
Feb p	140	115	125	869	11.4	3.9	7.5	3.04	3.79	13.25

1. At the end of period. 2. Absence for which no reason has been given (ie excludes absence through industrial disputes). 3. Absence mainly for sickness or injury. 4. Saleable deep-mined revenue coal. 5. Output from production faces divided by production manshifts. 6. Average numbers during 1985 were as follows: Total 163 thousand (- 8.7 per cent compared with 1984), Underground 132 thousand (- 8.7 per cent compared with 1984).

## Gas

TABLE 7. Sources of supply and gas sent out by the public supply system

	Natural gas supply					Gas sent out	
	Total into system <sup>1</sup>	Source					
		Indigenous	Imported	Indigenous	Imported		
	Million therms		Percentage of total			Million therms	
1981	17,153	12,899	4,254	75.2	24.8	17,130	
1982	16,806	12,905	3,901	76.8	23.2	16,740	
1983	17,344	13,090	4,254	75.5	24.5	17,204	
1984	17,884	12,893	4,992	72.1	27.9	17,788	
1985 p	19,317	14,314	5,003	74.1	25.9	19,045	
Per cent change	+ 8.0	+ 11.0	+ 0.2			+ 7.1	
1984 Dec*	2,344	1,750	594	74.7	25.3	2,338	
1985 Jan*	2,331	1,824	507	78.2	21.8	2,337	
Feb	2,224	1,719	504	77.3	22.7	2,254	
Total	6,899	5,294	1,606	76.7	23.3	6,929	
1985 Dec*	2,360	1,756	604	74.4	25.6	2,373	
1986 Jan	2,284	1,792	491	78.5	21.5	2,290	
Feb p	2,434	1,943	492	79.8	20.2	2,532	
Total	7,078	5,491	1,587	77.6	22.4	7,195	
Per cent change	+ 2.6	+ 3.7	- 1.2			+ 3.8	

1. Figures differ from Gas sent out because of stock changes and the inclusion of small quantities of Substitute Natural Gas and Town Gas in Gas sent out. They include gas put to storage, but to avoid double counting, exclude gas withdrawn from storage to the system. The figures also differ from total consumption (expressed in coal or oil equivalent in Table 1) because of producers own use and losses and small quantities not entering the public supply system.

TABLE 8. Sales of gas by the public supply system

	Total	Power stations <sup>1</sup>	Iron and steel industry	Other industries	Domestic	Million therms	
						Other <sup>2</sup>	
1981	16,622	78	409	5,261	8,764		2,110
1982	16,657	76	365	5,319	8,719		2,178
1983	16,844	77	342	5,295	8,871		2,260
1984	17,302	178	387	5,477	8,931		2,329
1985 p	18,390	190	366	5,565	9,682		2,587
Per cent change	+ 6.3	+ 6.7	- 5.4	+ 1.6	+ 8.4		+ 11.1
1983 4th quarter	5,014	20	88	1,448	2,790		668
1984 1st quarter	6,417	21	101	1,626	3,719		950
2nd quarter	3,504	19	97	1,274	1,655		458
3rd quarter	2,336	45	85	1,081	902		222
4th quarter	5,045	92	103	1,496	2,655		699
1985 1st quarter p	6,874	83	92	1,574	4,074		1,051
2nd quarter p	3,796	57	98	1,350	1,781		511
3rd quarter p	2,462	29	85	1,113	972		263
4th quarter p	5,258	21	92	1,528	2,855		763
Per cent change <sup>3</sup>	+ 4.2	- 77.2	- 10.7	+ 2.1	+ 7.5		+ 9.2

1. Public supply and transport power stations. 2. Public administration and commerce. 3. Per cent change on the corresponding period of the previous year.

# Electricity

TABLE 9. Fuel used by, and electricity production and availability from the public supply system

	Fuel used						Electricity generated			Own <sup>5</sup> use	Electricity supplied	Electricity <sup>6</sup> available			
	Total <sup>1</sup>	Coal <sup>2</sup>	Oil <sup>2,3</sup>	Natural gas	Nuclear electricity	Hydro electricity	Total <sup>4</sup>	By steam plant							
								Nuclear	Other						
<i>Million tonnes coal or coal equivalent</i>															
<b>United Kingdom</b>															
1981	110.19	87.23	8.69	—	12.17	2.03	259.73	34.04	220.26	17.62	242.11	246.22			
1982	107.07	79.95	10.63	—	14.41	2.02	255.44	40.00	209.96	17.65	237.79	242.02			
1983	108.03	81.44	8.08	—	16.47	2.02	260.44	45.78	208.51	19.13	241.31	246.02			
1984	109.52	53.41	36.23	0.39	17.72	1.75	265.99	49.50	209.12	19.62	246.37	250.76			
1985 p	114.53	73.94	18.04	0.48	20.28	1.79	279.90	56.36	216.24	21.72	258.18	261.76			
<i>Per cent change</i>	+4.6	+38.4	-50.2	+23.1	+14.4	+2.3	+5.5	+13.9	+3.4	+10.9	+4.8	+4.4			
1984 Dec*	11.88	3.77	5.56	0.12	2.12	0.31	28.85	5.89	21.65	2.13	26.72	27.16			
1985 Jan	10.78	3.92	4.70	0.08	1.93	0.15	26.22	5.32	19.95	1.89	24.33	24.65			
Feb	10.70	3.89	4.72	0.07	1.87	0.15	26.03	5.18	20.11	1.84	24.20	24.49			
<b>Total</b>	<b>33.36</b>	<b>11.58</b>	<b>14.98</b>	<b>0.27</b>	<b>5.92</b>	<b>0.62</b>	<b>81.10</b>	<b>16.39</b>	<b>61.71</b>	<b>5.86</b>	<b>75.25</b>	<b>76.30</b>			
1985 Dec*	12.21	9.28	0.68	—	1.99	0.25	30.10	5.53	23.70	2.29	27.81	28.25			
1986 Jan	10.42	7.98	0.67	—	1.54	0.23	25.58	4.32	20.55	1.92	23.66	24.09			
Feb p	11.33	8.48	0.94	—	1.74	0.17	27.85	4.81	22.45	1.96	25.89	26.30			
<b>Total</b>	<b>33.96</b>	<b>25.74</b>	<b>2.29</b>	<b>—</b>	<b>5.27</b>	<b>0.65</b>	<b>83.53</b>	<b>14.66</b>	<b>66.70</b>	<b>6.16</b>	<b>77.36</b>	<b>78.64</b>			
<i>Per cent change</i>	+1.8	(+)	-84.7	(-)	-11.0	+4.8	+3.0	-10.6	+8.1	+5.1	+2.8	+3.1			
<b>England and Wales</b>															
1981	94.47	78.63	6.11	—	9.53	0.13	224.32	26.70	196.85	14.83	209.49	213.36			
1982	91.84	72.97	7.57	—	11.13	0.11	220.51	30.97	188.77	14.70	205.81	211.02			
1983	93.57	76.31	4.40	—	12.72	0.11	226.32	35.53	189.42	16.11	210.21	214.75			
1984	93.48	49.87	29.34	0.39	13.78	0.09	227.01	38.76	185.02	16.50	210.51	219.14			
1985 p	98.75	68.06	14.06	0.48	16.05	0.11	242.20	44.87	194.27	18.62	223.59	229.12			
<i>Per cent change</i>	+5.6	+36.5	-52.1	+23.1	+16.5	+30.2	+6.7	+15.8	+5.0	+12.8	+6.2	+4.6			
1984 Dec*	10.11	3.69	4.55	0.12	1.74	0.02	24.46	4.86	18.96	1.81	22.64	23.56			
1985 Jan	9.26	3.80	3.80	0.08	1.57	0.01	22.40	4.35	17.45	1.60	20.80	21.51			
Feb	9.18	3.78	3.83	0.07	1.49	0.01	22.20	4.15	17.66	1.54	20.65	21.34			
<b>Total</b>	<b>28.55</b>	<b>11.27</b>	<b>12.18</b>	<b>0.27</b>	<b>4.80</b>	<b>0.03</b>	<b>69.06</b>	<b>13.36</b>	<b>54.07</b>	<b>4.95</b>	<b>64.09</b>	<b>66.41</b>			
1985 Dec*	10.51	8.52	0.41	—	1.56	0.02	26.17	4.37	21.51	2.00	24.17	24.45			
1986 Jan	8.95	7.29	0.45	—	1.19	0.02	22.20	3.37	18.61	1.67	20.53	20.92			
Feb p	9.81	7.74	0.70	—	1.36	0.01	24.32	3.79	20.33	1.70	22.62	22.94			
<b>Total</b>	<b>29.27</b>	<b>23.55</b>	<b>1.56</b>	<b>—</b>	<b>4.11</b>	<b>0.04</b>	<b>72.69</b>	<b>11.53</b>	<b>60.45</b>	<b>5.37</b>	<b>67.32</b>	<b>68.31</b>			
<i>Per cent change</i>	+2.5	(+)	-87.2	(-)	-14.4	+33.3	+5.3	-13.7	+11.8	+8.5	+5.0	+2.9			

1. Including coke. 2. Including quantities used in the production of steam for sale. 3. Including oil used in gas turbine and diesel plant and for lighting up coal fired boilers. 4. Including generation by gas turbine, diesel and hydro-electric plant. 5. Used in works and for pumping at pumped storage stations. 6. Includes net imports and purchases from outside sources mainly UKAEA and British Nuclear Fuels. The England and Wales figures include net exchanges with Scotland.

TABLE 10. Sales of electricity by the public supply system

GWh

	Total	Iron and steel industry	Other industries	Domestic	Other <sup>1</sup>
1981	226,195	10,490	74,055	84,439	57,211
1982	221,630	9,764	71,483	82,787	57,596
1983	224,907	9,363	72,057	82,953	60,534
1984	229,000	9,290	73,175	83,898	62,637
1985 p	240,455	9,055	76,046	88,304	67,049
<i>Per cent change</i>	+5.0	-2.5	+3.9	+5.3	+7.0
1983 4th quarter	60,727	2,417	18,524	23,613	16,173
1984 1st quarter	67,397	2,540	19,747	26,868	18,242
2nd quarter	52,513	2,362	17,628	18,197	14,326
3rd quarter	48,028	2,097	17,160	15,317	13,454
4th quarter	61,062	2,291	18,640	23,516	16,615
1985 1st quarter p	69,739	2,356	20,056	28,248	19,079
2nd quarter p	55,304	2,379	18,663	19,013	15,249
3rd quarter p	51,106	2,071	18,022	16,357	14,656
4th quarter p	64,306	2,250	19,305	24,686	18,065
<i>Per cent change<sup>2</sup></i>	+5.3	-1.8	+3.6	+5.0	+8.7

1. Mainly commerce, public administration and agriculture. 2. Per cent change on the corresponding period of the previous year.

# Petroleum

TABLE 11. Indigenous production, refinery receipts, arrivals and shipments<sup>1</sup>

	Indigenous Production <sup>2</sup>			Crude Oil <sup>4</sup>						Petroleum Products		
				Refinery Receipts			Foreign Trade <sup>8</sup> Shipments			Foreign Trade <sup>8</sup>		
	Total	Crude Oil	NGLs <sup>3</sup>	Indigenous <sup>5</sup>	Other <sup>6</sup>	Net Foreign <sup>7</sup> Arrivals	Arrivals	Indigenous	Other <sup>9</sup>	Arrivals	Shipments	Bunkers <sup>10</sup>
	Million tonnes											
1981	89.5	88.0	1.5	37,769	2,486	36,361	36,855	51,149	494	9,402	12,793	2,073
1982	103.2	100.3	2.9	40,294	3,162	33,249	33,754	60,195	505	12,524	13,585	2,583
1983	114.9	110.8	4.1	44,815	2,366	29,163	30,324	67,397	1,161	9,907	14,674	2,019
1984	125.9	121.2	4.8	45,304	2,196	30,950	32,272	77,271	1,363	23,082	14,234	2,248
1985 p	127.5	122.4	5.1	43,231	1,095	34,327	35,576	79,335	1,416	13,414	17,038	2,118
Per cent change	+ 1.3	+ 1.0	+ 6.3	- 4.6	- 50.1	+ 10.9	+ 10.2	+ 2.7	+ 3.9	- 41.9	+ 19.7	- 5.8
1984 Dec	11.3	10.8	0.4	2,998	225	3,017	3,137	8,256	134	3,262	1,350	205
1985 Jan	11.7	11.2	0.5	3,364	113	2,690	2,807	7,780	141	2,572	1,495	168
Feb	10.3	9.8	0.4	3,370	8	2,452	2,500	6,440	53	3,066	1,149	165
Total	33.2	31.9	1.4	9,732	346	8,158	8,444	22,476	328	8,900	3,994	538
1985 Dec	10.6	10.1	0.5	3,636	179	2,855	2,989	6,335	163	847	1,315	148
1986 Jan	11.6	11.1	0.4	3,182	79	2,800	2,867	7,895	97	483	1,432	151
Feb p	10.5	10.0	0.5	2,552	33	2,364	2,462	7,869	139	627	1,224	161
Total	32.6	31.2	1.4	9,370	290	8,020	8,318	22,098	400	1,957	3,971	459
Per cent change	- 1.8	- 2.2	-	- 3.7	- 16.2	- 1.7	- 1.5	- 1.7	+ 22.0	- 78.0	- 0.6	- 14.7

1. Calendar Months. 2. Includes for convenience offshore and land production. 3. Condensates and petroleum gases derived at onshore treatment plants. 4. Includes process (partly refined) oils. 5. Includes condensate for distillation. 6. Mainly recycled products. 7. Arrivals less re-exports. 8. Foreign Trade recorded by the Petroleum Industry and may differ from figures published in the Overseas Trade Statistics. 9. Mainly process oils but may include re-exports of crude oil. 10. International marine bunkers.

TABLE 12. Refinery throughput and output of petroleum products<sup>1</sup>

	Throughput of crude and process oil	Refinery use		Total <sup>2</sup> output of petroleum products	Gases		Naphtha (LDF)	Motor spirit	Kerosene		Gas/diesel oil	Fuel oil	Lubricating oils	Bitumen
		Fuel	Losses/(Gains)		Butane and propane	Other Petroleum			Aviation turbine fuel	Burning oil				
1981	78,287	5,445	836	72,006	1,391	75	3,405	17,140	4,559	1,904	20,410	19,069	1,063	1,735
1982	77,130	5,549	834	70,747	1,400	75	3,492	19,134	4,457	1,851	20,581	15,808	990	1,862
1983	76,876	5,297	652	70,927	1,482	56	3,550	21,053	4,723	1,770	21,029	13,483	936	1,798
1984	79,117	5,350	579	73,187	1,578	78	3,206	22,236	5,352	2,066	21,547	13,071	1,108	1,795
1985 p	78,431	5,179	348	72,904	1,436	60	2,883	22,254	5,257	2,307	21,702	12,896	1,188	1,764
Per cent change	- 0.9	- 3.2	- 39.9	- 0.4	- 9.0	- 23.1	- 10.1	+ 0.1	- 1.8	+ 11.7	+ 0.7	- 1.3	+ 7.2	- 1.7
1984 Dec	6,863	462	69	6,332	121	7	308	1,855	417	237	1,822	1,251	108	99
1985 Jan	6,748	444	29	6,276	101	6	334	1,678	398	239	1,970	1,302	94	61
Feb	6,119	410	(12)	5,721	117	6	271	1,534	364	209	1,846	1,087	99	92
Total	19,730	1,316	86	18,329	338	19	913	5,067	1,180	686	5,638	3,639	302	252
1985 Dec	6,673	459	36	6,178	123	5	254	1,866	409	203	2,031	1,005	79	108
1986 Jan	6,518	459	31	6,028	104	14	175	1,871	457	199	1,876	1,093	73	81
Feb p	5,731	403	37	5,290	105	6	128	1,620	362	244	1,703	906	63	74
Total	18,922	1,322	104	17,496	333	24	557	5,356	1,228	647	5,609	3,004	216	262
Per cent change	- 4.1	+ 0.5	+ 20.9	- 4.5	- 1.5	+ 26.3	- 39.0	+ 5.7	+ 4.1	- 5.7	- 0.5	- 17.4	+ 28.5	+ 4.0

1. Calendar Months. 2. Including output of products not shown separately, namely aviation spirit, wide-cut gasoline, industrial and white spirits, petroleum wax and miscellaneous products.

TABLE 13. Deliveries of petroleum products for inland consumption<sup>1</sup>

	Total <sup>2</sup> <sup>3</sup>	Butane <sup>4</sup> and propane	Naphtha <sup>5</sup> (LDF)	Motor spirit	Kerosene			Gas/diesel oil		Fuel oil	Lubricating oils	Bitumen			
					Aviation turbine fuel	Premier	Burning oil								
							Domestic	Other							
1981	66,256	1,209	3,656	18,718	4,495	258	1,230	417	5,549	11,554	15,656	837	1,666		
1982	67,246	1,449	3,412	19,247	4,474	199	1,142	404	5,731	11,023	16,191	827	1,956		
1983	64,464	1,778	3,570	19,566	4,566	156	1,121	386	6,183	10,432	12,524	818	1,987		
1984	81,435	1,948	3,337	20,226	4,828	123	1,176	411	6,755	10					

TABLE 14. Deliveries of petroleum products for inland consumption: energy uses<sup>1,2</sup>

Thousand tonnes

	Total	Power <sup>3</sup> stations	Gas works	Iron and steel industry	Other industries	Transport <sup>4</sup>	Domestic	Other <sup>5</sup>
1981	58,707	4,863	252	1,381	12,624	30,622	2,301	6,664
1982	59,643	6,873	213	1,224	11,600	31,315	2,146	6,272
1983	56,446	4,647	159	1,046	10,291	32,249	2,044	6,011
1984	73,259	20,913	157	866	9,364	33,823	2,139	5,996
1985 p	61,611	10,034	148	744	8,534	34,464	2,045	5,643
Per cent change	-15.9	-52.0	-5.7	-14.1	-8.9	+1.9	-4.4	-5.9
1984 Nov	7,540	2,945	13	72	892	2,854	207	556
Dec	7,356	3,003	14	68	825	2,683	217	546
1985 Jan	7,489	2,483	16	91	1,168	2,588	297	846
Total	22,385	8,432	43	232	2,884	8,126	721	1,948
1985 Nov	4,962	453	14	55	758	2,917	229	536
Dec	4,462	341	14	49	646	2,756	195	460
1986 Jan p	4,794	322	16	56	811	2,731	237	622
Total	14,218	1,116	43	160	2,215	8,404	661	1,618
Per cent change	-36.5	-86.8	-	-31.0	-23.2	+3.4	-8.3	-16.9

1. Calendar Months. 2. Excludes non-energy use. 3. Public supply, railway and transport power stations. 4. Includes coastal shipping and fishing.

5. Mainly public administration, commerce and agriculture.

TABLE 15. Stocks of petroleum at end of month<sup>1</sup>

	Oil Industry		Power stations <sup>3</sup> Million tonnes
	Million tonnes	Estimated days supply <sup>2</sup>	
1984 Dec	15.1	54	1.35
1985 Jan	13.9	53	1.11
Feb	13.3	66	1.04
1985 Dec p	15.7	81	0.93
1986 Jan p	15.1	77	0.95
Feb p	13.5	74	0.69

1. Stocks of petroleum products plus the product equivalent of crude and process oils held at refineries and terminals. Stocks in the wholesale distribution system and those held abroad for U.K. use under approved bilateral agreements are also included. 2. Based on actual deliveries, with forecasts beyond the latest period. 3. Fuel oil held at main oil burning stations in Great Britain.

## APPROXIMATE CONVERSION FACTORS

(last digit rounded to nought or five)

To convert from one fuel to another, multiply by the factor shown

To	From	Million tonnes coal equiv.	Million tonnes oil equiv.	Million therms	TWh electrical energy	TWh electricity generated
Million tonnes coal equivalent	1	1.70	0.0040	0.140 <sup>1</sup>	0.475 <sup>2</sup>	
Million tonnes oil equivalent	0.60	1	0.00240	0.080 <sup>1</sup>	0.260 <sup>2</sup>	
Million therms	250	425	1	34.0	110	
TWh electrical energy	7.50	12.5	0.030	1	..	
TWh electricity generated	2.10 <sup>3</sup>	3.80 <sup>3</sup>	0.00910 <sup>3</sup>	..	1	

1. The amount of fuel (average grade) equivalent to a TWh of energy.

2. The amount of primary fuel (power station grade) to generate 1 TWh.

3. The amount of electricity generated by one million units of fuel shown.

The Digest of U.K. Energy Statistics 1985 gives more detailed factors.

## SUPPLEMENTARY DATA

Electricity generated by industry and transport undertakings in Great Britain<sup>1</sup>

GWh

	Total	Industry									Transport undertakings	
		Total industry	Iron and steel	Engineering and other metal trades	Food drink and tobacco	Chemical and allied trades		Textiles, leather and clothing	Paper, printing and stationery	Other <sup>4</sup> industries		
						Nuclear <sup>2</sup> power stations	Others <sup>3</sup>					
1981	17,926	17,235	1,025	3,145	476	3,926	6,926	217	1,245	275	691	
1982	17,266	16,615	899	3,241	578	3,971	6,284	205	1,109	328	651	
1983	16,959	16,313	929	3,565	489	4,152	5,661	216	973	328	647	
1984	16,479	15,824	1,163	2,347	542	4,481	5,788	202	926	376	655	
1985 p	17,582	16,952	1,307	3,413	487	4,740	5,718	151	704	431	629	
Per cent change	+6.7	+7.1	+12.4	+45.4	-10.1	+5.8	-1.2	-25.2	-24.0	+14.6	-4.0	
1983 3rd quarter	3,781	3,632	212	819	40	1,022	1,221	50	195	73	149	
4th quarter	4,576	4,411	265	975	240	1,099	1,459	56	232	85	165	
1984 1st quarter	4,712	4,534	282	1,151	117	1,152	1,395	58	272	106	178	
2nd quarter	3,968	3,809	256	683	103	951	1,456	52	227	79	160	
3rd quarter	3,715	3,563	267	336	61	1,137	1,443	45	195	79	152	
4th quarter	4,084	3,919	357	177	261	1,241	1,494	46	232	111	165	
1985 1st quarter	4,608	4,434	402	703	122	1,395	1,395	45	244	128	174	
2nd quarter	4,025	3,878	314	817	67	946	1,413	42	174	105	147	
3rd quarter	4,222	4,079	285	928	49	1,105	1,436	33	150	94	142	
4th quarter p	4,727	4,561	305	966	250	1,294	1,474	31	137	105	166	
Per cent change <sup>5</sup>	+15.7	+16.4	-14.6	(+)	-4.2	+4.3	-1.3	-32.6	-40.9	-5.4	+0.6	

1. Excludes electricity generated by commerce, public administration, etc. 2. Generated by UKAEA and British Nuclear Fuels for the public electricity supply system. 3. Including production by the oil refining industry. 4. Including coal mining, gas and water works. 5. Per cent change on the corresponding period of the previous year.

Enquiries about this bulletin should be addressed to: Content: Economics & Statistics Division, Room 1493 (tel: 01-211 4292). Subscriptions: Information Division, Room 1314 (tel: 01-211 4351) at the Department of Energy, Thames House South, Millbank, London SW1P 4QJ. Subscription rates for 1986 are UK and Eire £7.00; Europe £10; other overseas £15 (air mail) or £10 (surface mail).