

# DEPARTMENT OF ENERGY

# ENERGY TRENDS

## A Statistical Bulletin



JULY 1984

### Total Energy

Total inland energy consumption, on a primary fuel input basis, in the three months March to May 1984 was 1.5 per cent less than in the same period in 1983. Consumption of coal was 20.9 per cent lower, whilst consumption of petroleum and natural gas were 14.5 per cent and 3.3 per cent higher respectively. Consumption of nuclear electricity rose by 5.0 per cent but consumption of hydro electricity fell by 15.3 per cent.

On a seasonally adjusted and temperature corrected basis total consumption was 0.7 per cent lower. Consumption of coal was down by 21.1 per cent whilst consumption of petroleum was 15.8 per cent higher and natural gas 4.8 per cent higher.

### Energy Consumption by Final Users

Provisional data for energy consumption by final users in the first quarter of 1984 show that total consumption on a heat supplied basis was 2.3 per cent higher than in the same quarter of 1983. Consumption by the transport sector increased by 3.6 per cent, the domestic sector by 5.7 per cent and the public administration, commerce and agriculture sector by 3.2 per cent. Consumption by the iron and steel industry fell by 13.6 per cent and other industries by 0.7 per cent.

Total consumption of coal fell by 6.4 per cent. Consumption of gas increased by 7.5 per cent, electricity by 4.0 per cent and petroleum by 0.2 per cent.

### Coal

All the latest figures are provisional.

Total coal production in the three months March to May 1984 was 11.9 million tonnes. Production of deep-mined coal was 7.9 million tonnes — 20.4 million tonnes less than a year ago. Opencast production was 3.7 million tonnes.

Use of coal in this period, at 22.4 million tonnes, was 20.9 per cent lower than in the same period a year ago.

### Gas

In the three month period March to May 1984, 5,016 million therms of natural gas were supplied into the public supply system, 2.8 per cent more than in the same period in 1983. Indigenous supplies fell by 4.4 per cent, whilst imported supplies rose by 27.4 per cent.

Provisional figures for the first quarter of 1984 show that sales of gas by the public supply system rose by 7.6 per cent compared with the same quarter of 1983, with higher sales to all sectors.

### Electricity

During the period March to May 1984, 1.5 per cent more electricity was supplied by the public supply system compared with the same period a year ago. Total fuel used, on a coal equivalent basis, was 0.2 per cent higher.

Provisional figures for sales of electricity by the public supply system in the first quarter of 1984 show an increase of 5

per cent compared with the same quarter of 1983. Sales to all sectors rose.

This month's supplementary data gives details of electricity generated by industry and transport undertakings in Great Britain. Provisional data for the first quarter of 1984 show an overall increase of 4.2 per cent compared with the same quarter of 1983. Generation increased in all sectors except food, drink and tobacco, chemical and allied trades (excluding nuclear power stations) and paper, printing and stationery.

### Petroleum

Production of crude oil in the three months March to May 1984 was 30.2 million tonnes. Production of natural gas liquids was one million tonnes.

Total output of petroleum products fell by one per cent, with increased output of motor spirit, aviation turbine fuel, gas/diesel oil and lubricating oils. Deliveries of petroleum products for inland consumption in the period were 13.1 per cent higher than a year ago, with increased deliveries of butane and propane, motor spirit, standard burning oil, derv fuel and fuel oil.

Enclosed with this edition of Energy Trends is a copy of the 1984 pocket-sized card containing a selection of some of the statistics that will be found in the Digest of United Kingdom Energy Statistics 1984 (due to be published at the end of July). Copies of the Digest will be available from HM Stationery Office, price £11.95 net.

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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, especially in relation to gas and electricity industry data for 1982.

## 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						
1979	355.7	129.6	139.0	71.1	13.8	2.2
1980	328.7	120.8	121.4	71.1	13.4	2.0
1981	317.2	118.2	110.9	72.1	13.7	2.3
1982	311.9	110.7	111.1	71.7	16.0	2.4
1983	312.9	111.5	106.1	74.8	18.10	2.37
Percent change	+0.3	+0.8	-4.5	+4.2	+13.3	+0.1
1983 Jan-May	138.5	48.0	44.3	37.2	7.72	1.22
1984 Jan-May p	138.5	42.3	48.1	38.8	8.09	1.09
Percent change	-	-11.7	+8.5	+4.2	+4.8	-11.0
1983 Mar*	33.9	11.6	11.0	9.0	1.90	0.29
Apr	24.7	8.4	8.3	6.5	1.46	0.17
May	22.6	8.4	7.7	5.1	1.23	0.16
Total	81.1	28.3	27.0	20.6	4.60	0.62
1984 Mar*p	35.3	11.7	11.5	10.1	1.79	0.26
Apr p	23.3	5.9	9.6	6.1	1.47	0.15
May p	21.4	4.8	9.9	5.0	1.57	0.12
Total	80.0	22.4	30.9	21.2	4.83	0.52
Percent change	-1.5	-20.9	+14.5	+3.3	+5.0	-15.3

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

1983 Jan-May	309.5	110.5	104.4	73.9	17.88	2.72
1984 Jan-May p	308.2	96.4	114.5	76.0	19.14	2.27
Percent change	-0.4	-12.8	+9.6	+2.9	+7.0	-16.8
1983 Mar*	304.5	108.4	104.4	72.2	17.08	2.47
Apr	308.9	106.3	106.4	74.1	19.53	2.49
May	309.0	110.0	106.6	69.8	19.83	2.69
Average	307.2	108.3	105.7	72.1	18.68	2.55
1984 Mar*p	306.8	106.0	105.8	76.5	16.42	2.16
Apr p	305.8	80.1	126.9	77.0	19.56	2.20
May p	302.7	65.1	138.5	72.6	24.40	2.00
Average	305.2	85.4	122.4	75.5	19.84	2.13
Percent change	-0.7	-21.1	+15.8	+4.8	+6.2	-16.5

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	Coal <sup>1</sup>	Petroleum <sup>2</sup>	Natural <sup>3</sup> gas	Nuclear electricity	Hydro electricity
Million tonnes of oil or oil equivalent						
209.2	76.2	81.8	41.8	8.1	1.3	
193.3	71.1	71.4	41.8	7.8	1.2	
186.6	69.6	65.2	42.4	8.1	1.3	
183.5	65.1	65.4	42.2	9.4	1.4	
184.1	65.6	62.5	44.0	10.65	1.39	
+0.3	+0.8	-4.5	+4.2	+13.3	+0.1	
81.5	28.2	26.1	21.9	4.54	0.72	
81.4	24.9	28.3	22.8	4.76	0.64	
-	-11.7	+8.5	+4.2	+4.8	-11.0	
19.9	6.8	6.5	5.3	1.12	0.17	
14.5	4.9	4.9	3.8	0.86	0.10	
13.3	4.9	4.5	3.0	0.72	0.09	
47.7	16.7	15.9	12.1	2.71	0.36	
20.8	6.9	6.7	6.0	1.05	0.15	
13.7	3.5	5.7	3.6	0.87	0.09	
12.6	2.9	5.8	2.9	0.92	0.07	
47.0	13.2	18.2	12.5	2.84	0.31	
-1.5	-20.9	+14.5	+3.3	+5.0	-15.3	

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.

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

Million tonnes coal equivalent

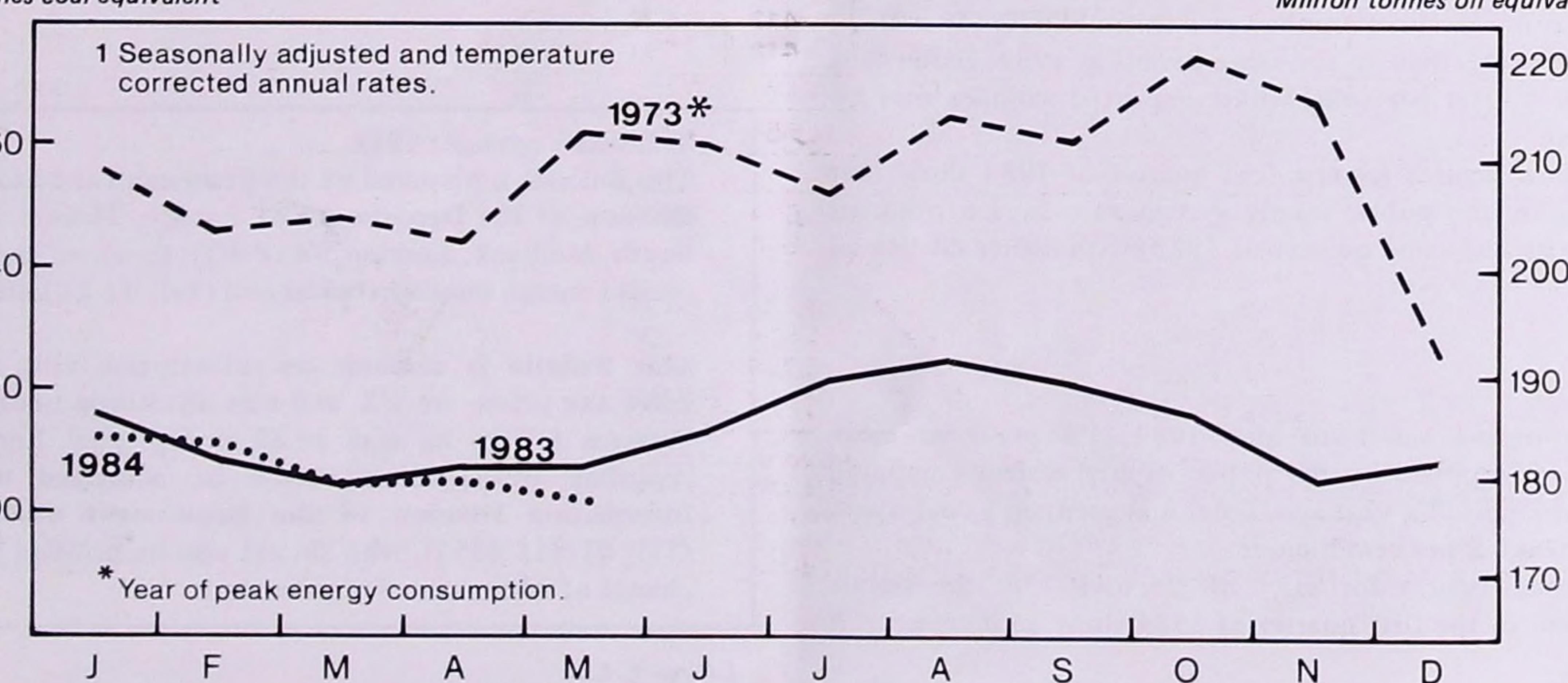


TABLE 2. Supply and use of fuels

Million thermes

	1982	1983	Per cent change	1982			1983				1984p	Per <sup>1</sup> cent change
				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	30,198	28,859	-4.4	7,542	6,735	7,988	7,746	7,293	6,437	7,383	5,147	-33.6
Petroleum <sup>2</sup>	44,668	49,814	+11.5	11,111	11,412	12,003	11,964	11,626	12,685	13,539	13,835	+15.6
Natural gas <sup>3</sup>	14,006	14,442	+3.1	2,564	2,100	4,336	5,277	3,136	1,935	4,094	5,333	+1.1
Primary electricity	4,218	4,708	+11.6	833	1,015	1,256	1,362	1,088	1,000	1,258	1,357	-0.4
Total	93,090	97,823	+5.1	22,050	21,262	25,583	26,349	23,143	22,057	26,274	25,672	-2.6
Arrivals, Petroleum <sup>4</sup>	19,827	17,286	-12.8	5,161	4,762	4,684	4,261	4,033	4,455	4,537	3,949	-7.3
Other	5,258	5,722	+8.8	1,288	842	1,439	1,444	1,397	1,113	1,768	1,983	+37.3
Shipments	34,255	37,893	+10.6	8,563	9,198	9,100	8,530	9,000	9,608	10,755	10,618	+24.5
Marine Bunkers	1,078	841	-22.0	431	240	181	271	141	220	209	171	-36.9
Stock change <sup>5</sup>												
Solid fuels	-2,247	-1,274		-712	-809	-530	-55	-800	-505	+86	+87	
Crude Petroleum	+183	+229		-410	+131	+413	+129	+268	-603	+435	+456	
Petroleum products	+732	+172		-82	+66	+123	+203	+64	-87	-8	+29	
Non-energy use	3,229	3,424	+6.0	877	853	737	842	950	882	750	925	+9.9
Statistical difference <sup>6</sup>	-966	-127		+65	-295	-492	+190	-46	+21	-292	+83	
Total primary <sup>7</sup> energy input	77,315	77,673	+0.5	17,489	15,668	21,192	22,878	17,968	15,741	21,086	20,545	-10.2
Conversion losses etc. <sup>8</sup>	23,036	23,494	+2.0	5,199	5,010	6,427	6,986	5,209	4,989	6,310	4,280	-38.7
Final energy consumption	54,279	54,179	-0.2	12,290	10,658	12,765	15,892	12,759	10,752	14,776	16,265	+2.3
<b>FINAL CONSUMPTION BY USER</b>												
Iron and steel industry												
Coal	41	18	56.1	14	5	5	7	4	2	5	6	-14.3
Other solid fuel <sup>9</sup>	1,497	1,607	+7.3	440	331	287	402	426	381	398	293	-27.1
Other coal derived fuels <sup>10</sup>	204	215	+5.4	62	48	36	48	58	55	54	54	+12.5
Gas <sup>11</sup>	365	342	-6.3	95	80	80	91	86	77	88	101	+11.0
Electricity	325	312	-4.0	86	72	72	82	78	71	81	85	+3.7
Petroleum	502	430	-14.3	130	94	122	125	106	92	107	113	-9.6
Total	2,934	2,924	-0.3	827	630	602	755	758	678	733	652	-13.6
Other industries												
Coal	1,812	1,851	+2.2	423	439	482	455	428	460	508	397	-12.7
Other solid fuel <sup>9</sup>	147	124	-15.6	38	32	35	30	28	31	35	29	-3.3
Other coal derived fuels <sup>10</sup>	48	47	-2.1	10	11	14	14	13	9	11	14	-
Gas <sup>11</sup>	5,429	5,433	+0.1	1,281	1,074	1,472	1,554	1,312	1,079	1,488	1,657	+6.6
Electricity	2,197	2,219	+1.0	536	511	558	582	541	519	577	602	+3.4
Petroleum	4,869	4,345	-10.8	1,071	901	1,317	1,327	1,007	833	1,178	1,235	-6.9
Total	14,502	14,019	-3.3	3,359	2,968	3,878	3,962	3,329	2,931	3,797	3,934	-0.7
Transport sector												
Coal and other solid fuel	15	7	-53.3	2	1	5	5	2	-	-	1	(-)
Electricity	91	98	+7.7	23	21	24	26	24	23	25	26	-
Petroleum	13,803	14,214	+3.0	3,519	3,615	3,475	3,334	3,562	3,765	3,553	3,459	+3.7
Total	13,909	14,319	+2.9	3,544	3,637	3,504	3,365	3,588	3,788	3,578	3,486	+3.6
Domestic sector												
Coal	2,478	2,301	-7.1	650	548	618	528	647	541	585	537	+1.7
Other solid fuel <sup>9</sup>	600	586	-2.3	173	145	139	136	167	153	130	139	+2.2
Gas <sup>11</sup>	8,719	8,871	+1.7	1,450	923	2,804	3,452	1,794	836	2,789	3,719	+7.7
Electricity	2,825	2,830	+0.2	591	512	816	874	638	512	806	899	+2.9
Petroleum	947	906	-4.3	174	154	292	292	175	159	280	291	-0.3
Total	15,569	15,494	-0.5	3,038	2,282	4,669	5,282	3,421	2,201	4,590	5,585	+5.7
Other final users <sup>12</sup>												
Coal	485	463	-4.5	97	81	154	155	97	68	143	136	-12.3
Other solid fuel <sup>9</sup>	118	131	+11.0	34	32	20	29	35	36	31	29	-
Gas <sup>11</sup>	2,178	2,260	+3.8	426	206	657	881	495	216	668	950	+7.8
Electricity	1,933	2,027	+4.9	431	412	530	575	475	434	543	612	+6.4
Petroleum	2,651	2,542	-4.1	534	410	751	888	561	400	693	881	-0.8
Total	7,365	7,423	+0.8	1,522	1,141	2,112	2,528	1,663	1,154	2,078	2,608	+3.2
Total final users	54,279	54,179	-0.2	12,290	10,658	14,765	15,892	12,759	10,752	14,776	16,265	+2.3
<b>FINAL CONSUMPTION BY FUEL</b>												
Coal	4,831	4,640	-4.0	1,186	1,074	1,264	1,150	1,178	1,071	1,241	1,076	-6.4
Other solid fuel <sup>9</sup>	2,362	2,447	+3.6	685	540	481	597	656	601	594	491	-17.8
Other coal derived fuels <sup>10</sup>	252	261	+3.6	72	59	50	62	71	64	65	68	+9.7
Gas <sup>11</sup>	16,691	16,906	+1.3	3,252	2,283	5,013	5,978	3,687	2,208	5,033	6,427	+7.5
Electricity	7,371	7,486										

# 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
1979	122,369	107,775	12,862	+2,000	4,375	2,175	12,385	888
1980	130,097	112,430	15,779	+3,525	7,334	3,809	12,039	1,226
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	-2,201	4,360	6,561	12,021	4,499
Per cent change	-4.4	-4.2	-3.7		+7.3	-11.9	-3.1	+29.7
1983 Jan-May	53,937	46,975	5,735	-1,432	1,374	2,806	1,732	809
1984 Jan-May p	27,377	20,920	5,684	+621	2,669	2,048	1,742	23,371
Per cent change	-49.2	-55.5	-0.9		+94.3	-27.0	+0.6	(+)
1983 Mar*	13,213	11,370	1,499	-532	119	651	130	497
Apr	9,567	8,477	932	-120	436	556	773	52
May	9,812	8,416	1,118	-212	400	612	483	102
Total	32,592	28,263	3,549	-863	955	1,818	1,386	652
1984 Mar*p	6,167	4,463	1,569	-83	474	557	—	6,670
Apr p	2,767	1,682	993	+471	589	118	834	6,061
May p	2,942	1,721	1,180	+842	876	34	413	6,367
Total	11,876	7,866	3,742	+1,229	1,938	709	1,247	19,098
Per cent change	-63.6	-72.2	+5.4		(+)	-61.0	-10.0	(+)

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 of the United Kingdom". 3. Shipments as recorded by the NCB; the figures may differ from those published in Overseas Trade Statistics. 4. NCB only.

TABLE 4. Inland coal use

Thousand tonnes

	Total <sup>1</sup>	Fuel producers (consumption)				Final users (disposals by collieries and opencast sites)			
		Primary	Secondary			Industry	Domestic		Other <sup>6</sup>
			Collieries	Power stations <sup>2</sup>	Coke ovens		House coal <sup>4</sup>	Other <sup>5</sup>	
1979	129,378	834	88,790	15,081	2,883	9,232	8,922	1,585	2,051
1980	123,460	663	89,569	11,610	3,022	7,841	7,262	1,684	1,809
1981	118,386	616	87,226	10,805	2,458	6,990	6,851	1,603	1,837
1982	110,998	534	80,228	10,406	2,326	7,122	6,719	1,756	1,907
1983	111,475	486	81,565	10,448	2,114	7,193	6,212	1,660	1,797
Per cent change	+0.4	-9.1	+1.7	+0.4	-9.1	+1.0	-7.5	-5.5	-5.8
1983 Jan-May	47,971	252	35,621	4,836		2,950	2,710	568	891
1984 Jan-May p	42,349	141	32,019	4,069 <sup>7</sup>		2,319	1,752	585	787
Per cent change	-11.7	-44.3	-10.1	-15.9		-21.4	-35.3	+2.9	-11.7
1983 Mar*	11,581	66	8,674	1,100		799	594	109	239
Apr	8,370	39	6,147	950		548	471	86	130
May	8,389	36	5,836	1,035		508	670	147	123
Total	28,340	140	20,658	3,085		1,855	1,735	342	492
1984 Mar*p	11,656	38	9,113	1,074		581	418	129	205
Apr p	5,916	12	4,363	648 <sup>7</sup>		326	218	88	148
May p	4,847	11	3,191	564 <sup>7</sup>		442	214	114	119
Total	22,419	61	16,667	2,287 <sup>7</sup>		1,349	849	331	472
Per cent change	-20.9	-56.4	-19.3	-25.9		-27.3	-51.1	-3.2	-4.1

1. Short term data includes coal for which no reliable allocation by user is available. 2. Public supply and railway and transport power stations. 3. Gas works, low temperature carbonisation and patent fuel plants. 4. Including miners' coal. 5. Anthracite, dry steam coal and imported naturally smokeless fuels. 6. Mainly 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
1979	27,908	18,339	16,258	1,854	227	9,569	7,803	1,766
1980	37,687	20,370	18,616	1,611	143	17,317	13,091	4,226
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
1983 Mar	53,324	28,059	26,485	1,458	116	25,265	20,405	4,860
Apr	54,496	28,890	27,103	1,669	118	25,606	20,604	5,002
May	55,557	30,153	28,403	1,620	130	25,404	20,372	5,032
1984 Mar p	46,154	24,431	23,014	1,193	225	21,723	16,954	4,769
Apr p	43,151	21,278	19,937	1,165	176	21,873	16,401	5,472
May p	41,914	19,798	18,413	1,220	165	22,116	16,027	6,089
Absolute change:								
in latest month	-1,237	-1,480	-1,524	+55	-11	+243	-374	+617
On a year ago	-13,643	-10,355	-9,990	-400	+35	-3,288	-4,345	+1,057

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 <sup>1</sup>		Recruitment	Wastage	Absence percentage			Average output per manshift <sup>2</sup>		
	Total	Underground			Total	Voluntary	Involuntary	Overall	Underground <sup>3</sup>	Total
	Thousands		Number		Per cent			Tonnes		
1979	233	184	26,551	25,407	15.7	4.5	11.2	2.25	2.86	..
1980	228	182	14,749	19,383	13.1	4.1	9.0	2.32	2.95	9.05
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	22,318	10.6	3.4	7.2	2.51	3.14	10.58
Per cent change	-9.3	-8.8	-52.6	+36.7				+3.9	+3.4	+7.1
1983 Jan-May	203 <sup>5</sup>	164 <sup>5</sup>	1,232	7,158	11.2	3.7	7.6	2.59	3.24	10.85
1984 Jan-May p	182 <sup>5</sup>	148 <sup>5</sup>	458	8,203	9.8	2.5	7.3	2.23	2.74	9.72
Per cent change	-10.2	-9.9	-62.8	-14.6				-14.0	-15.3	-10.4
1983 Mar*	202	164	183	1,349	12.3	3.8	8.4	2.62	3.27	11.12
Apr	201	163	163	1,497	11.0	3.8	7.2	2.55	3.19	10.76
May	200	162	139	1,497	9.0	2.6	6.5	2.57	3.25	10.92
1984 Mar*	181	148	147	1,812	10.7	2.6	8.1	2.16	2.65	9.45
Apr p	180	147	26	1,257	7.4	1.1	6.3	2.08	2.57	9.79
May p	179	146	3	1,336	6.5	0.8	5.7	2.18	2.71	10.43

1. At the end of period. 2. Excluding capital working and tip coal. 3. For information on this new series, see commentary in May 1979 issue.

4. Later figures are a new series. For further explanation and definition, see commentary on first page of May 1980 issue. 5. Average number during the period.

## Gas

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

	Natural gas supply					Gas sent out <sup>2</sup>	
	Total into system	Source <sup>1</sup>					
		Indigenous	Imported	Indigenous	Imported		
	Million therms		Percentage of total		Million therms		
1979	17,319	13,976	3,343	80.7	19.3	17,338	
1980	17,075	13,116	3,959	76.8	23.2	17,105	
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	
Per cent change	+3.2	+1.4	+9.0			+2.8	
1983 Jan-May	8,869	6,966	1,903	78.5	21.5	8,814	
1984 Jan-May p	9,197	6,801	2,396	73.9	26.1	9,179	
Per cent change	+3.7	-2.4	+25.9			+4.1	
1983 Mar*	2,164	1,693	471	78.2	21.8	2,142	
Apr	1,532	1,166	366	76.1	23.9	1,511	
May	1,182	909	273	76.9	23.1	1,178	
Total	4,878	3,768	1,110	77.3	22.8	4,832	
1984 Mar*	2,430	1,821	610	74.9	25.1	2,436	
Apr	1,441	1,006	434	69.9	30.1	1,430	
May p	1,145	775	370	67.7	32.3	1,142	
Total	5,016	3,602	1,414	71.8	28.2	5,009	
Per cent change	+2.8	-4.4	+27.4			+3.7	

1. Figures differ from production and imports respectively because of stock changes and small quantities not entering the public supply system.

2. Includes small quantities of Substitute Natural Gas and Town Gas.

TABLE 8. Sales of gas by the public supply system

	Total	Power stations <sup>1</sup>	Iron and steel industry	Other industries	Million therms	
					Domestic	Other <sup>2</sup>
1979	16,591	239	538	5,622	8,225	1,967
1980	16,630	140	451	5,539	8,439	2,061
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
Per cent change	+1.1	+1.3	-6.3	-0.5	+1.7	+3.8
1982 1st quarter	6,138	20	110	1,577	3,542	889
2nd quarter	3,244	18	95	1,255	1,450	426
3rd quarter	2,275	18	80	1,048	923	206
4th quarter	5,000	20	80	1,439	2,804	657
1983 1st quarter	5,963	20	91	1,519	3,451	883
2nd quarter	3,677	19	86	1,284	1,793	494
3rd quarter	2,190	18	77	1,043	836	215
4th quarter	5,014	20	88	1,448	2,790	668
1984 1st quarter p	6,417	21	101	1,627	3,719	950
Per cent change	+7.6	+5.0	+11.0	+7.1	+7.8	+7.6

1. Public supply and transport power stations. 2. Public administration and commerce.

# 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						
Million tonnes coal or coal equivalent															
United Kingdom															
1979	121.89	88.79	18.13	0.64	12.31	1.88	279.48	34.60	239.32	19.64	259.84	263.65			
1980	114.77	89.57	11.23	0.22	11.93	1.72	266.38	33.46	227.97	18.71	246.67	251.34			
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			
Percent change	+0.9	+1.9	-24.0	—	+14.3	+0.2	+2.0	+14.5	-0.7	+8.4	+1.5	+1.9			
1983 Jan-May	47.35	35.62	3.60	—	7.04	1.08	114.36	19.49	91.94	8.05	106.31	108.23			
1984 Jan-May p	47.97	32.02	7.62	(+)	7.38	0.94	116.88	20.53	93.50	8.44	108.44	110.29			
Percent change	+1.3	-10.1	(+)	—	+4.8	-13.1	+2.2	+5.3	+1.7	+4.8	+2.0	+1.9			
1983 Mar*	11.44	8.67	0.76	—	1.74	0.26	27.62	4.81	22.12	1.91	25.71	26.16			
Apr	8.28	6.15	0.68	—	1.32	0.14	20.18	3.66	16.04	1.52	18.66	19.04			
May	7.80	5.84	0.70	—	1.13	0.13	18.84	3.15	15.27	1.39	17.45	17.72			
Total	27.52	20.66	2.13	—	4.19	0.53	66.64	11.63	53.44	4.83	61.81	62.92			
1984 Mar*	12.11	9.11	1.16	—	1.61	0.22	29.31	4.49	24.13	2.11	27.20	27.67			
Apr	7.96	4.36	2.16	—	1.32	0.12	19.67	3.70	15.57	1.45	18.22	18.57			
May p	7.51	3.19	2.76	—	1.46	0.09	18.67	4.06	14.27	1.36	17.31	17.57			
Total	27.57	16.67	6.08	—	4.39	0.43	67.65	12.24	53.97	4.92	62.73	63.81			
Percent change	+0.2	-19.3	(+)	—	+4.8	-18.7	+1.5	+5.2	+1.0	+1.9	+1.5	+1.4			
England and Wales															
1979	105.39	79.81	14.12	0.64	10.55	0.13	242.12	29.67	211.54	16.55	225.57	228.30			
1980	99.21	80.77	8.56	0.22	9.44	0.12	230.94	26.55	203.71	15.59	215.25	217.71			
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			
Percent change	+1.9	+4.6	-41.9	—	+14.3	-2.6	+2.6	+14.7	+0.3	+9.6	+2.1	+1.9			
1983 Jan-May	40.99	33.48	2.05	—	5.37	0.06	99.34	14.93	83.92	6.76	92.58	94.23			
1984 Jan-May p	40.79	29.56	5.62	(+)	5.56	0.04	99.84	15.58	83.61	7.04	92.80	96.14			
Percent change	-0.5	-11.7	(+)	—	+3.5	-36.2	+0.5	+4.4	-0.4	+4.1	+0.2	+2.0			
1983 Mar*	9.94	8.20	0.39	—	1.32	0.01	24.09	3.67	20.32	1.61	22.48	22.77			
Apr	7.19	5.78	0.43	—	0.97	0.01	17.54	2.72	14.68	1.29	16.25	16.59			
May	6.76	5.42	0.47	—	0.88	0.01	16.42	2.45	13.87	1.19	15.23	15.49			
Total	23.89	19.40	1.29	—	3.17	0.03	58.05	8.84	48.87	4.09	53.96	54.85			
1984 Mar*	10.36	8.53	0.68	—	1.15	0.01	25.15	3.25	21.76	1.75	23.40	24.16			
Apr	6.72	3.92	1.84	—	0.97	—	16.68	2.73	13.86	1.19	15.49	16.17			
May p	6.40	2.97	2.33	—	1.10	—	15.96	3.07	12.78	1.14	14.82	15.49			
Total	23.48	15.41	4.85	—	3.21	0.01	57.80	9.05	48.40	4.08	53.72	55.81			
Percent change	-1.7	-20.6	(+)	—	+1.3	-73.1	-0.4	+2.4	-1.0	-0.2	-0.4	+1.8			

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

	Total	Iron and steel industry	Other industries	Domestic	Other <sup>1</sup>
1979	240,786	13,778	81,037	89,672	56,299
1980	229,909	9,529	77,543	86,107	56,730
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
Percent change	+1.5	-4.1	+0.8	+0.2	+5.1
1982 1st quarter	65,262	2,829	19,248	26,545	16,640
2nd quarter	50,265	2,569	17,460	17,359	12,877
3rd quarter	46,084	2,181	16,646	15,007	12,250
4th quarter	60,019	2,185	18,129	23,876	15,829
1983 1st quarter	64,234	2,479	18,963	25,620	17,176
2nd quarter	52,885	2,334	17,660	18,698	14,192
3rd quarter	47,061	2,133	16,910	15,022	12,993
4th quarter	60,727	2,417	18,524	23,613	16,173
1984 1st quarter p	67,451	2,540	19,749	26,894	18,269
Percent change	+5.0	+2.5	+4.1	+5.0	+6.4

1. Mainly commerce, public administration and agriculture.

# Petroleum

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

	Indigenous Oil Production			Crude Oil <sup>3</sup>						Petroleum Products		
				Refinery Receipts			Foreign Trade <sup>7</sup>			Shipments		
	Total <sup>2</sup>	Crude Oil	NGLs	Indigenous <sup>4</sup>	Other <sup>5</sup>	Net Foreign <sup>6</sup> Arrivals	Arrivals	Indigenous	Other <sup>8</sup>	Arrivals	Shipments	Bunkers <sup>9</sup>
	<i>Million tonnes</i>											
1979	77.9	76.6	1.3	38,445	606	59,226	60,380	39,044	1,154	12,035	13,359	2,671
1980	80.5	78.9	1.6	39,844	2,005	45,556	46,717	38,531	1,161	9,246	14,598	2,457
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	44,820	2,366	29,163	30,324	67,397	1,161	9,907	14,674	2,019
Per cent change	+11.3	+10.5	+41.4	+11.2	-25.2	-12.3	-10.2	+12.0	(+)	-20.9	+8.0	-21.8
1983 Jan-May	46.0	44.3	1.7	19,070	1,318	11,693	11,986	26,133	293	4,356	5,819	878
1984 Jan-May p	52.4	50.6	1.8	20,231	837	11,258	12,033	31,452	775	5,896	5,552	678
Per cent change	+13.9	+14.2	+5.9	+6.1	-36.5	-3.7	+0.4	+20.4	(+)	+35.4	-4.6	-22.8
1983 Mar	9.7	9.3	0.4	3,021	210	2,189	2,266	5,903	77	935	924	195
Apr	8.9	8.6	0.3	3,861	219	2,133	2,186	5,570	53	760	1,179	120
May	9.5	9.2	0.3	3,759	204	2,668	2,699	5,291	31	747	1,404	107
Total	28.1	27.1	1.0	10,641	633	6,990	7,151	16,764	161	2,442	3,507	422
1984 Mar	10.6	10.2	0.4	3,193	196	1,827	2,003	7,115	176	1,102	791	142
Apr	10.2	9.9	0.3	4,870	232	2,233	2,454	5,328	221	1,167	1,133	124
May p	10.4	10.1	0.3	3,644	203	3,203	3,282	6,493	79	1,845	1,218	144
Total	31.2	30.2	1.0	11,707	631	7,263	7,739	18,936	476	4,114	3,142	410
Per cent change	+11.0	+11.4	-	+10.0	-0.3	+3.9	+8.2	+13.0	(+)	+68.5	-10.4	-2.8

1. Calendar Months. Indigenous is used in this table for convenience to include oil from the UK Continental Shelf as well as the amounts produced on land.

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

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

*Thousand tonnes*

	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 <sup>3</sup> oil				
1979	97,806	6,490	733	90,583	1,604	168	5,242	16,111	5,236	2,709	25,449	28,600	1,330	2,066
1980	86,341	6,265	849	79,227	1,366	92	3,541	16,609	5,198	2,034	22,153	23,700	1,250	1,928
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
Per cent change	-0.3	-4.5	-21.8	+0.3	+5.9	-25.3	+1.7	+10.0	+6.0	-4.4	+2.2	-14.7	-5.5	-3.4
1983 Jan-May	32,696	2,300	234	30,162	695	22	1,640	8,621	1,765	790	9,022	6,143	376	647
1984 Jan-May p	32,203	2,224	204	29,775	589	27	1,561	8,721	2,020	876	9,367	5,071	430	666
Per cent change	-1.5	-3.3	-12.8	-1.3	-15.3	+22.7	-4.8	+1.2	+14.4	+10.9	+3.8	-17.5	+14.4	+2.9
1983 Mar	6,329	462	29	5,838	137	4	285	1,683	324	175	1,745	1,177	93	141
Apr	6,362	431	41	5,890	137	4	339	1,738	330	147	1,734	1,142	64	156
May	6,802	454	19	6,329	160	4	310	1,900	395	150	1,875	1,196	74	177
Total	19,493	1,347	89	18,057	434	12	934	5,321	1,049	472	5,354	3,515	231	474
1984 Mar	6,081	400	22	5,659	80	5	312	1,612	441	153	1,825	903	103	166
Apr	6,510	442	56	6,012	110	6	265	1,812	430	171	1,953	969	87	124
May p	6,697	450	51	6,197	135	5	302	1,926	381	134	1,912	1,094	52	164
Total	19,288	1,292	129	17,868	325	16	879	5,350	1,252	458	5,690	2,966	242	454
Per cent change	-1.1	-4.1	+44.9	-1.0	-25.1	+33.3	-5.9	+0.5	+19.4	-3.0	+6.3	-15.6	+4.8	-4.2

1. Calendar Months. 2. Including output of products not shown separately, namely aviation spirit, wide-cut gasoline, industrial and white spirits, paraffin wax and miscellaneous products. 3. Including vaporising oil.

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

*Thousand tonnes*

	Total <sup>2</sup> <sup>3</sup>	Butane <sup>4</sup> and propane	Naphtha <sup>5</sup> (LDF)	Motor spirit	Kerosene		Premier	Domestic	Standard	Derv fuel	Other	Fuel oil
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TABLE 14. Deliveries of petroleum products for inland consumption: energy uses<sup>1 2</sup>

Thousand tonnes

	Total	Power stations <sup>3</sup>	Gas works	Iron and steel industry	Other industries	Transport <sup>4</sup>	Domestic	Other <sup>5</sup>
1979	75,023	11,188	366	2,853	17,611	31,588	3,195	8,222
1980	64,176	6,516	310	1,588	14,517	31,738	2,553	6,954
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	32,248	2,044	6,011
Per cent change	-5.4	-32.4	-25.4	-14.5	-11.3	+3.0	-4.8	-4.2
1983 Jan-Apr	19,537	1,380	54	396	4,045	10,158	833	2,671
1984 Jan-Apr p	20,468	2,310	65	356	3,742	10,573	819	2,604
Per cent change	+4.8	+67.4	+20.4	-10.1	-7.5	+4.1	-1.7	-2.5
1983 Feb	4,802	329	13	107	1,071	2,322	246	714
Mar	5,369	387	13	98	1,057	2,883	210	721
Apr	4,658	312	13	93	900	2,592	176	572
Total	14,829	1,028	39	298	3,028	7,797	632	2,007
1984 Feb	4,825	302	20	89	964	2,557	220	672
Mar	5,492	596	15	93	988	2,862	221	717
Apr p	5,259	954	13	81	815	2,718	156	522
Total	15,576	1,852	48	263	2,767	8,137	597	1,911
Per cent change	+5.0	+80.2	+23.1	-11.7	-8.6	+4.4	-5.5	-4.8

1. Calendar months. 2. Excludes non-energy products and non-energy use of naphtha (LDF). 3. Public supply, railway and transport power stations.

4. Including fishing, coastal and inland shipping. 5. Mainly public administration, commerce and agriculture.

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

	Million tonnes	Estimated days supply	Power stations <sup>2</sup>
			Million tonnes
1983 Mar	16.0	90	1.26
	15.8	92	1.13
	15.9	93	1.01
1984 Mar p	15.2	72	1.14
	16.0	72	0.78
	16.2	77	0.84

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. Latest three months are provisional and days supply is calculated on forecast deliveries for the ensuing months. Figures for earlier period calculated on actual deliveries. 2. 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

From	Million tonnes coal equiv.	Million tonnes oil equiv.	Million therms	TWh electrical energy	TWh electricity generated
To					
Million tonnes coal equivalent	1	1.7	0.004	0.135 <sup>1</sup>	0.500 <sup>2</sup>
Million tonnes oil equivalent	0.60	1	0.00235	0.0800 <sup>1</sup>	0.280 <sup>2</sup>
Million therms	250	425	1	34.0	115
TWh electrical energy	7.35	12.5	0.0295	1	..
TWh electricity generated	2.003	3.60 <sup>3</sup>	0.00880 <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 1984 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 industries <sup>4</sup>		
						Nuclear <sup>2</sup> power stations	Others <sup>3</sup>					
1979	20,304	19,609	1,413	3,268	536	3,704	8,010	335	1,899	444	695	
1980	18,476	17,772	857	3,298	553	3,561	7,334	225	1,624	320	704	
1981	17,926	17,235	1,025	3,145	476	3,926	6,926	217	1,245	275	691	
1982	16,645	15,994	899	3,241	578	3,971	5,663	205	1,109	328	651	
1983	15,714	15,067	929	3,565	489	4,152	4,415	216	973	328	647	
Per cent change	-5.6	-5.8	+3.3	+10.0	-15.4	+4.6	-22.0	+5.4	-12.3	-	-0.6	
1981 4th quarter	4,656	4,500	285	822	253	943	1,754	57	314	72	156	
1982 1st quarter	4,864	4,678	286	908	116	1,122	1,769	55	327	95	186	
2nd quarter	3,918	3,768	234	756	68	840	1,483	52	266	69	150	
3rd quarter	3,574	3,424	189	761	70	914	1,147	46	223	74	150	
4th quarter	4,289	4,124	190	816	324	1,095	1,264	52	293	90	165	
1983 1st quarter	4,265	4,090	222	935	144	1,102	1,233	54	305	95	175	
2nd quarter	3,674	3,517	230	836	65	929	1,085	56	241	75	157	
3rd quarter	3,518	3,369	212	819	40	1,022	958	50	195	73	149	
4th quarter	4,257	4,091	265	975	240	1,099	1,140	56	232	85	165	
1984 1st quarter p	4,446	4,270	282	1,151	117	1,152	1,131	58	272	106	177	
Per cent change	+4.2	+4.4	+27.0	+23.1	-18.8	+4.5	-8.3	+7.4	-10.8	+11.6	+1.1	

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.