

## Slow growth continues

### Energy

#### April Consumption higher

Total inland energy consumption, on a primary fuel input basis for the three month period February to April was only slightly higher than that for the comparable period in 1976. After seasonal adjustment and temperature correction the increase widened to 1.7 per cent.

For April, the most recent month in the period, total energy consumption measured as a seasonally adjusted, temperature corrected annual rate was at its highest level for two years and was over 4 per cent higher than in April 1976.

Coal consumption for February to April was over 2 per cent higher than the period a year ago and was over 5 per cent higher when corrected for temperature and seasonality.

For the third successive month consumption of petroleum was lower than in the comparable month of 1976 and for the February to April period as a whole consumption fell by 3.6 per cent compared with last year's levels (2.2 per cent lower after temperature and seasonal correction).

### Coal

#### Power Station use still rising

Production of coal from opencast mines for the period March to May was over 6 per cent higher than a year ago. This was more than off-set by a one per cent decline in deep-mined coal output over the period, and the total amount of coal produced continues to run below last year's levels.

Total inland consumption of coal during the three month period rose by 3.4 per cent, with consumption at power stations nearly 9 per cent higher than a year ago. Deliveries of house coal for the domestic sector were 10.7 per cent lower than a year ago, however for May, the latest month in the period, there was an increase in deliveries compared with May of 1976, a reversal of the recent month-on-month declines.

Colliery manpower increased by over 2,800 men in the period March to May. This compares with a net wastage of over 1,100 men for the same period in 1976. Overall productivity remained below last year's levels.

### Gas

#### Recent growth continues

The increase in demand noted for April 1977 continued in May and total gas sent out for the three month period March to May was 3.1 per cent above last year's levels. Much of this increase can however be attributed to the cold weather in April and May, when temperatures were well below those experienced last year.

### Electricity

#### Fuel use changes continue

Total electricity supplied for the period February to April was only slightly higher than in the corresponding period a year ago. Demand in April, however, increased by over 5 per cent compared with April 1976, largely due to the colder weather.

Fuel use in total remained virtually unchanged during February to April, but within the total the trends noted last month continued. That is, coal and nuclear generation are increasing at the expense of oil and gas.

### Petroleum

#### Growing indigenous contribution

Gross production of North Sea crude oil in the first 4 months of 1977 passed the ten million tonnes mark and for the three month period February to April accounted for over a third of total refinery receipts. In consequence net arrivals of crude oil from overseas declined by nearly seven million tonnes, over 30 per cent, compared with February to April a year ago.

Total inland deliveries of products were 3.5 per cent below last year's levels for the period February to April. Demand for fuel oil, used mainly by power stations and industry remained depressed while deliveries of the road transport fuels, motor spirit and DERV, increased by 2.3 and 2.5 per cent respectively compared with levels of a year ago.

### Supplementary Data

#### Industrial Fuel Prices

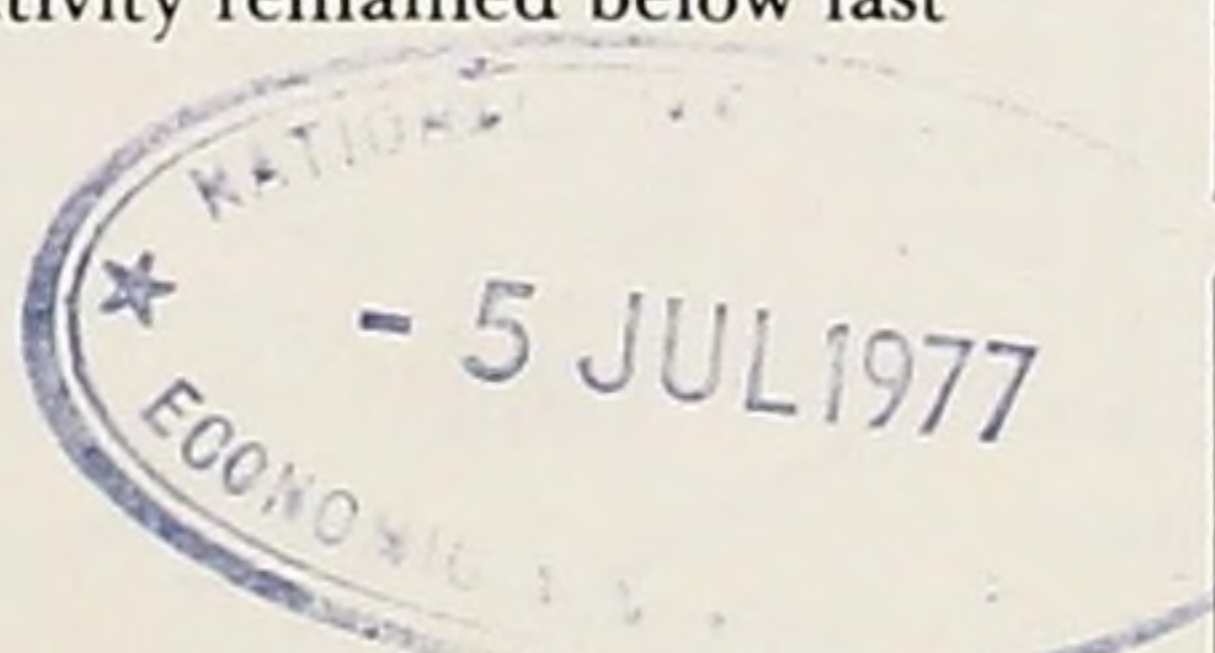
Provisional results from the large consumers inquiry are now available for the first quarter of 1977 and are shown on the final table of this month's bulletin. Prices of all fuels continued to increase, particularly those of oil and gas.

The data for oil prices realised in new and renewed contracts is not yet available.

Enclosed with this edition of *Energy Trends* is a copy of the 1977 pocket-sized card containing a selection from the statistics covering the last ten years that will be found in the *Digest of United Kingdom Energy Statistics 1977* (due to be published at the end of July).

This Bulletin is prepared by the Economics and Statistics Division of the Department of Energy. Further copies of the Bulletin are available from Circulation Section (H), Central Office of Information (COI), Hercules Road, London SE1 7DU. Telephone: 01-928-2345.

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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.

Percentage changes relate to the corresponding period a year ago. 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.

Explanatory notes on the definitions and concepts used in the tables and on the relationship between some of the main series are given in the Supplement to the March 1976 issue of *Energy Trends* and on the first page of the August 1976 issue. Extra copies of that Supplement may be obtained from the Department of Energy.

#### 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 gas <sup>3</sup>	Nuclear electricity	Hydro-electricity	Total	Coal <sup>1</sup>	Petroleum <sup>2</sup>	Natural gas <sup>3</sup>	Nuclear electricity	Hydro-electricity
	<i>Million tons of coal or coal equivalent</i>						<i>Million metric tonnes of oil or oil equivalent</i>					
1973	347.9	130.8	161.6	43.6	9.9	2.0	207.9	78.2	96.6	26.0	5.9	1.2
1974	332.2	116.0	150.1	52.1	11.9	2.1	198.6	69.3	89.7	31.2	7.1	1.3
1975	319.7	118.1	134.4	54.5	10.8	1.9	191.1	70.6	80.3	32.6	6.4	1.2
1976 p	324.7	120.1	132.1	57.9	12.7	1.9	194.0	71.8	78.9	34.6	7.6	1.1
Per cent change	+1.5	+1.7	–1.7	+6.1	+17.8	–4.4	+1.5	+1.7	–1.7	+6.1	+17.8	–4.4
1976 Jan-Apr	120.7	43.6	47.9	24.0	4.3	0.9	72.1	26.0	28.6	14.4	2.6	0.5
1977 Jan-Apr p	123.6	45.4	47.3	25.0	5.1	0.8	73.9	27.1	28.3	15.0	3.0	0.5
Per cent change	+2.4	+4.2	–1.1	+4.1	+19.9	–18.7	+2.4	+4.2	–1.1	+4.1	+19.9	–18.7
1976 Feb	30.7	11.5	11.8	6.2	1.0	0.2	18.4	6.9	7.1	3.7	0.6	0.1
Mar*	35.8	13.2	14.6	6.5	1.3	0.2	21.4	7.9	8.8	3.9	0.7	0.1
Apr	26.0	9.0	10.8	5.0	1.0	0.2	15.5	5.4	6.4	3.0	0.6	0.1
Total	92.5	33.7	37.2	17.7	3.3	0.6	55.3	20.2	22.3	10.6	1.9	0.3
1977 Feb	30.7	11.6	11.6	6.1	1.3	0.1	18.3	6.9	7.0	3.6	0.7	0.1
Mar*	34.8	13.0	13.7	6.2	1.6	0.3	20.8	7.8	8.2	3.7	1.0	0.1
Apr p	27.2	9.9	10.5	5.5	1.1	0.2	16.3	5.9	6.3	3.3	0.7	0.1
Total	92.7	34.5	35.8	17.8	4.0	0.6	55.4	20.6	21.5	10.6	2.4	0.3
Per cent change	+0.3	+2.2	–3.6	+1.0	+21.3	–9.8	+0.3	+2.2	–3.6	+1.0	+21.3	–9.8

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

1976 Jan-Apr	329.2	123.1	133.1	59.8	11.1	2.1	196.8	73.5	79.6	35.8	6.6	1.3
1977 Jan-Apr p	336.1	128.1	131.7	61.0	13.4	1.9	200.8	76.5	78.7	36.5	8.0	1.1
Per cent change	+2.1	+4.1	–1.1	+2.0	+21.2	–12.2	+2.1	+4.1	–1.1	+2.0	+21.2	–12.2
1976 Feb	334.2	126.7	134.0	61.0	10.6	1.9	199.8	75.8	80.1	36.5	6.3	1.1
Mar*	332.9	123.0	135.3	61.5	11.1	2.0	199.0	73.5	80.9	36.8	6.6	1.2
Apr	329.1	118.7	137.8	57.6	12.1	2.9	196.6	71.0	82.3	34.4	7.2	1.7
Average	332.2	122.8	135.7	60.1	11.3	2.3	198.5	73.4	81.1	36.0	6.7	1.3
1977 Feb	340.4	132.5	133.7	59.4	13.5	1.3	203.4	79.2	79.9	35.5	8.0	0.8
Mar*	331.3	124.8	131.6	58.3	14.3	2.3	198.0	74.6	78.6	34.8	8.6	1.4
Apr p	343.4	131.9	133.3	62.0	13.4	2.8	205.2	78.8	79.7	37.0	8.0	1.7
Average	337.8	129.3	132.8	59.8	13.8	2.1	201.9	77.3	79.3	35.7	8.3	1.3
Per cent change	+1.7	+5.3	–2.2	–0.6	+22.5	–5.5	+1.7	+5.3	–2.2	–0.6	+22.5	–5.5

1. Consumption by fuel producers plus colliery disposals to final users, plus (for annual figures only) net foreign trade and stock change in other solid fuels. 2. Refinery throughput of crude oil, plus net foreign trade and stock change in petroleum products, less deliveries of non energy products. 3. Excluding gas flared or reinjected. 4. Only coal and petroleum are temperature corrected.

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

Million tons  
coal equivalent

Million tonnes  
oil equivalent

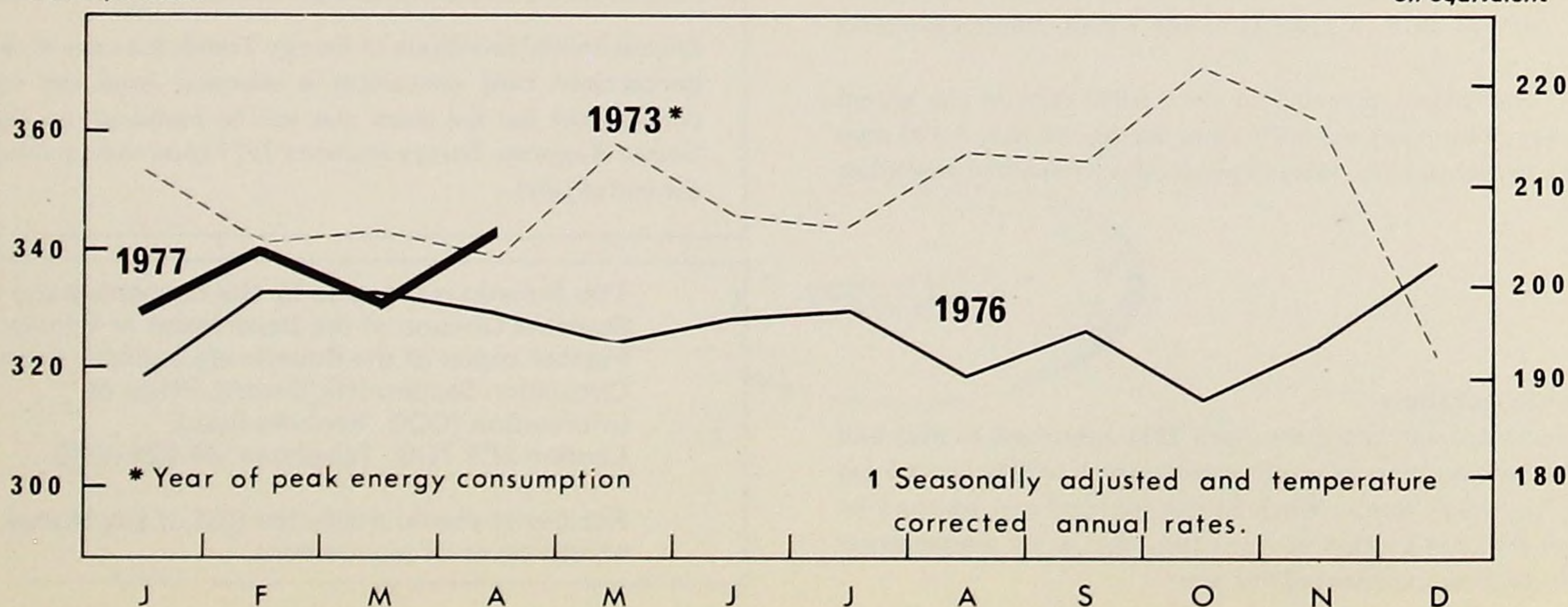


TABLE 2. Supply and use of fuels

Million therms

			Per cent change	1974	1975				1976p				Per <sup>1</sup> cent change
	1975	1976 p		4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
PRIMARY FUELS AND EQUIVALENTS:													
Production of primary fuels													
Coal	31,430	30,122	-4.2	8,355	8,482	7,904	6,602	8,442	7,941	7,672	6,420	8,089	-4.2
Petroleum <sup>2</sup>	665	5,121	(+)	51	56	57	137	415	564	1,003	1,311	2,243	(+)
Natural gas <sup>3</sup>	13,578	14,373	+5.9	3,967	4,193	2,980	2,191	4,214	4,727	2,962	2,173	4,511	+7.0
Primary electricity	2,982	3,401	+14.1	867	944	617	580	841	925	779	767	930	+10.6
Total	48,655	53,017	+9.0	13,240	13,675	11,558	9,510	13,912	14,157	12,416	10,671	15,773	+13.4
Arrivals. Petroleum <sup>4</sup>	44,216	43,070	-2.6	13,394	11,378	11,200	10,521	11,117	10,967	10,924	10,137	11,042	-0.7
Other	1,616	1,096	-32.2	323	389	417	380	430	325	310	252	209	-51.4
Shipments	7,243	9,065	+25.2	2,051	1,730	1,638	1,993	1,882	1,724	2,044	2,479	2,818	+49.7
Bunkers	1,418	1,469	+3.6	450	375	345	354	344	372	346	381	370	+7.6
Stock change <sup>5</sup>													
Solid fuels	-2,576	-660	..	+104	+103	-1,085	-891	-703	+323	-859	-401	+277	..
Crude petroleum	+475	+521	..	+256	+425	-248	+220	+78	+353	-196	-25	+389	..
Petroleum products	+978	-336	..	+349	+754	+20	-503	+707	+649	-431	-367	-187	..
Non energy use	4,106	4,442	+8.2	1,146	1,055	956	960	1,135	1,132	1,111	1,159	1,040	-8.4
Statistical difference <sup>6</sup>	-176	-149	..	-9	-168	+17	-13	-12	+110	-10	-17	-232	..
Total primary <sup>7</sup> energy input	80,421	81,583	+1.4	24,010	23,396	18,940	15,917	22,168	23,656	18,653	16,231	23,043	+3.9
Conversion losses etc. <sup>8</sup>	24,547	24,223	-1.3	7,592	6,995	5,693	4,954	6,905	6,865	5,532	4,872	6,954	+0.7
FINAL CONSUMPTION BY USER:													
Iron and steel industry													
Coal	72	67	-6.9	26	25	18	10	19	23	15	9	20	+5.3
Other solid fuel <sup>9</sup>	2,374	2,664	+12.2	673	746	575	482	571	617	703	655	689	+20.7
Other coal-derived fuels <sup>10</sup>	372	406	+9.1	104	107	97	76	92	98	109	98	101	+9.8
Gas <sup>11</sup>	371	438	+18.1	97	101	91	79	100	108	112	99	119	+19.0
Electricity	344	394	+14.5	93	94	84	75	91	100	95	90	109	+19.8
Petroleum	1,357	1,280	-5.7	451	449	334	244	330	354	306	273	347	+5.2
Total	4,890	5,249	+7.3	1,444	1,522	1,199	966	1,203	1,300	1,340	1,224	1,385	+15.1
Other industries													
Coal	2,458	2,277	-7.4	746	660	613	528	657	547	564	470	696	+5.9
Other solid fuel <sup>9</sup>	164	128	-22.0	51	47	47	40	30	38	23	28	39	+30.0
Other coal-derived fuels <sup>10</sup>	78	77	-1.3	17	17	23	22	16	18	27	17	15	-6.3
Gas <sup>11</sup>	4,701	5,242	+11.5	1,273	1,295	1,091	1,007	1,308	1,457	1,236	1,083	1,466	+12.1
Electricity	2,234	2,360	+5.6	618	589	542	510	593	619	563	544	634	+6.9
Petroleum	7,426	7,478	+0.7	2,367	2,140	1,770	1,299	2,217	2,268	1,708	1,404	2,098	-5.4
Total	17,061	17,562	+2.9	5,072	4,748	4,086	3,406	4,821	4,947	4,121	3,546	4,948	+2.6
Transport sector													
Coal	19	20	+5.3	8	6	3	3	7	7	4	2	7	-
Electricity	99	100	+1.0	25	26	25	23	25	27	24	23	26	+4.0
Petroleum	12,143	12,597	+3.7	3,136	2,771	3,104	3,225	3,043	2,889	3,198	3,333	3,177	+4.4
Total	12,261	12,717	+3.7	3,169	2,803	3,132	3,251	3,075	2,923	3,226	3,358	3,210	+4.4
Domestic sector													
Coal	3,381	3,143	-7.0	1,160	1,013	903	699	766	932	765	634	812	+6.0
Other solid fuel <sup>9</sup>	962	892	-7.3	297	270	231	260	201	284	202	213	193	-4.0
Gas <sup>11</sup>	5,891	6,194	+5.1	1,698	2,329	1,119	615	1,828	2,403	1,055	686	2,050	+12.1
Electricity	3,035	2,894	-4.6	915	1,037	678	484	836	987	596	469	842	+0.7
Petroleum	1,434	1,429	-0.3	501	473	306	194	461	519	268	176	466	+1.1
Total	14,703	14,552	-1.0	4,571	5,122	3,237	2,252	4,092	5,125	2,886	2,178	4,363	+6.6
Other final users <sup>12</sup>													
Coal	490	520	+6.1	213	129	123	78	160	172	112	73	163	+1.9
Other solid fuel <sup>9</sup>	219	178	-18.7	65	64	49	63	43	55	47	40	36	-16.3
Gas <sup>11</sup>	1,347	1,543	+14.6	387	472	310	171	394	570	319	177	477	+21.1
Electricity	1,548	1,599	+3.3	455	460	347	302	439	479	350	310	460	+4.8
Petroleum	3,355	3,440	+2.5	1,042	1,081	764	474	1,036	1,220	720	453	1,047	+1.1
Total	6,959	7,280	+4.6	2,162	2,206	1,593	1,088	2,072	2,496	1,548	1,053	2,183	+5.4
Total final users	55,874	57,360	+2.7	16,418	16,401	13,247	10,963	15,263	16,791	13,121	11,359	16,089	+5.4
FINAL CONSUMPTION BY FUEL:													
Coal	6,420	6,027	-6.1	2,153	1,833	1,660	1,318	1,609	1,681	1,460	1,188	1,698	+5.5
Other solid fuel <sup>9</sup>	3,719	3,862	+3.8	1,086	1,127	902	845	845	994	975	936	957	+13.3
Other coal-derived fuels <sup>10</sup>	450	483	+7.3	121	124	120	98	108	116	136	115	116	+7.4
Gas <sup>11</sup>	12,310	13,417	+9.0	3,455	4,197	2,611	1,872	3,630	4,538	2,722	2,045	4,112	+13.3
Electricity	7,260	7,347	+1.2	2,106	2,206	1,676	1,394	1,984	2,212	1,628	1,436	2,071	+4.4
Petroleum	25,715	26,224	+2.0	7,497	6,914	6,278	5,436	7,087	7,250	6,200	5,639	7,135	+0.7
Total all fuels	55,874	57,360	+2.7	16,418	16,401	13,247	10,963	15,263	16,791	13,121	11,359	16,089	+5.4

1. Per cent change on the corresponding period of the previous year. 2. Crude petroleum and natural gas liquids. 3. Excluding gas flared or reinjected. 4. Crude petroleum, process oils and petroleum products. 5. Stock fall (+) stock rise (-). 6. Supply greater than recorded demand (-). 7. Thermal equivalent of total inland energy consumption in Table 1. A more detailed analysis of the annual figures is shown in the Digest of United Kingdom Energy Statistics 1976 Tables 8 and 10. 8. Losses in conversion and distribution and used by fuel industries. 9. Coke and other manufactured solid fuels. 10. Coke oven gas, creosote/pitch mixtures and other liquid fuels derived from coal. 11. Natural gas supplied direct, and town gas. 12. Mainly public administration, commerce and agriculture.

# Coal

TABLE 3. Supply

Thousand tons

	Net inland supply	Production			Net Imports	Imports <sup>2</sup>	Exports <sup>2</sup>	Tonnage lost (deep-mined) <sup>3</sup>	
		Total <sup>1</sup>	Deep-mined	Opencast				Recognised holidays and rest days	Disputes
1973	128,904	129,906	118,140	9,964	-1,002	1,649	2,651	10,313	5,569
1974	110,362	108,707	98,413	9,085	+1,655	3,491	1,836	10,352	15,996
1975	129,505	126,650	115,557	10,249	+2,855	5,003	2,148	12,105	347
1976 p	123,224	121,845	108,523	11,755	+1,379	2,792	1,413	12,150	1,140
Per cent change	-4.9	-3.8	-6.1	+14.7	-51.7	-44.2	-34.2	+0.4	(+)
1976 Jan-May	53,482	52,559	47,336	4,603	+923	1,437	514	3,065	350
1977 Jan-May p	50,686	50,801	45,782	4,655	-115	707	822	3,538	335
Per cent change	-5.2	-3.3	-3.3	+1.1	(-)	-50.8	+59.9	+15.4	-4.3
1976 Mar*	13,307	13,160	11,830	1,183	+147	281	134	-	62
Apr	9,829	9,680	8,717	825	+149	248	99	840	34
May	10,833	10,544	9,459	997	+289	387	98	46	66
Total	33,969	33,384	30,006	3,005	+585	916	331	886	162
1977 Mar*	12,931	13,099	11,900	1,139	-168	48	216	-	71
Apr	9,580	9,601	8,554	949	-21	123	144	846	43
May p	10,393	10,409	9,236	1,104	-16	156	172	73	92
Total	32,904	33,109	29,690	3,192	-205	327	532	919	226
Per cent change	-3.1	-0.8	-1.1	+6.2	(-)	-64.3	+60.7	+3.7	+39.5

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. NCB mines only.

TABLE 4. Inland consumption of coal

Thousand tons

	Total inland consumption	Fuel producers					Final users <sup>1</sup>			
		Primary	Secondary				Colliery disposals			
		Collieries	Power stations <sup>2</sup>	Coke ovens	Gas works	Other <sup>3</sup> conversion industries	Industry <sup>4</sup>	Domestic <sup>5</sup>	House Coal <sup>6</sup>	Other <sup>7</sup>
1973	131,288	1,359	75,628	21,543	504	3,550	11,890	12,519	1,755	2,540
1974	116,043	1,236	65,967	18,169	105	3,728	10,902	11,848	1,623	2,465
1975	120,303	1,218	73,391	18,783	9	3,999	9,532	9,844	1,609	1,918
1976 p	121,665	1,115	76,589	19,095	8	3,351	8,828	9,377	1,289	2,013
Per cent change	+1.1	-8.5	+4.4	+1.7	-11.1	-16.2	-7.4	-4.7	-19.9	+5.0
1976 Jan-May	52,576	514	33,533	7,594	4	1,508	3,548	4,353	540	982
1977 Jan-May p	54,769	494	36,273	7,447	4	1,194	3,764	4,104	520	969
Per cent change	+4.2	-3.9	+8.2	-1.9	+14.3	-20.8	+6.1	-5.7	-3.7	-1.3
1976 Mar*	13,188	138	8,321	1,822	1	367	834	1,316	131	258
Apr	9,009	87	5,477	1,501	1	279	643	758	96	167
May	8,987	88	5,336	1,506	-	283	759	775	98	142
Total	31,184	313	19,134	4,829	2	929	2,236	2,849	325	567
1977 Mar*	13,018	126	8,406	1,829	1	280	984	1,014	137	241
Apr	9,857	94	6,480	1,382	1	240	668	729	92	171
May p	9,358	102	5,952	1,326	-	235	684	802	108	149
Total	32,233	322	20,838	4,537	2	755	2,336	2,545	337	561
Per cent change	+3.4	+2.9	+8.9	-6.0	+5.4	-18.7	+4.5	-10.7	+3.7	-1.1

1. Disposals by collieries and opencast sites. 2. Public supply and railway and transport power stations. 3. Low temperature carbonisation & patent fuel plants. 4. Prior to October 1973 the figures relate to actual consumption. 5. Prior to April 1973 the figures relate to merchants' disposals to the domestic market. 6. Including miners' coal. 7. Anthracite, dry steam coal and imported naturally smokeless fuels. 8. Mainly public administration & commerce.

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

Thousand tons

	Total	Distributed					Undistributed		
		Total distributed stocks	Power stations	Coke ovens	Gas works	Other	Total undistributed stocks	Collieries	Opencast sites and central stocking grounds
1971	28,211	17,982	15,712	1,777	72	421	10,229	6,973	3,256
1972	29,979	19,045	16,791	1,890	50	314	10,934	7,558	3,376
1973	27,445	16,766	14,537	1,937	27	265	10,679	7,529	3,150
1974	21,462	15,577	13,414	1,822	3	338	5,885	3,946	1,939
1975	30,666	20,216	17,668	2,296	2	250	10,450	8,767	1,683
1976 p	32,592	22,102	19,288	2,642	2	170	10,490	9,148	1,342
1976 Mar	29,405	18,470	15,738	2,491	1	240	10,935	9,549	1,386
Apr	30,247	19,034	16,298	2,495	1	240	11,213	9,827	1,386
May	31,966	20,440	17,572	2,627	1	240	11,526	10,065	1,461
1977 Mar	27,669	18,077	15,586	2,319	2	170	9,592	8,539	1,053
Apr	27,472	17,706	15,274	2,260	2	170	9,766	8,612	1,154
May p	28,279	18,807	16,273	2,353	1	180	9,472	8,267	1,205
Absolute change:									
In latest month	+807	+1,101	+999	+93	-1	+10	-294	-345	+51
On a year ago	-3,687	-1,633	-1,299	-274	-	-60	-2,054	-1,798	-256

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 <sup>2</sup>			Average output per manshift <sup>3</sup>	
	Total	Underground			Total	Voluntary	Involuntary	Overall	At the face
	Thousands	Number	Per cent	Cwt.					
1971	279	218	28,010	32,309	18.1	4.4	13.7	43.94	143.08
1972	266	210	13,255	26,114	16.6	3.9	12.7	43.60	144.35
1973	245	193	17,402	37,961	18.0	4.1	13.9	45.00	150.00
1974	246	194	26,436	25,133	16.3	4.1	12.2	42.83	..
1975	245	194	21,347	22,451	16.2	4.0	12.2	44.92	155.85
1976 p	241	192	17,061	21,239	17.4	3.7	13.7	43.81	152.59
1976	Mar*	194	1,442	1,934	21.6	4.3	17.3	46.20	156.44
	Apr	194	1,110	1,668	17.7	4.3	13.4	44.59	152.88
	May	193	1,422	1,496	15.1	3.2	11.9	45.44	156.20
1977	Mar*	192	3,386	2,364	19.7	4.3	15.4	45.80	158.78
	Apr	193	2,941	1,906	18.5	4.5	14.0	44.48	156.84
	May p	194	2,850	2,076	16.2	3.3	12.9	44.97	158.47

1. At end of period. 2. The definition was changed from 1973. 3. Excluding capital working and tip coal.

## Gas

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

	Natural gas supply			Other fuel used		Gas sent out		
	Total into system	Source <sup>1</sup>		Coal	Oil <sup>2</sup>	Total	Town gas	Natural gas for direct supply
		Indigenous	Imported					
Million therms				Thousand tons		Million therms		
1973	10,916	10,639	277	503	2,286	11,620	2,434	9,186
1974	13,102	12,861	241	105	1,256	13,451	1,598	11,853
1975	13,692	13,367	325	9	579	13,822	752	13,070
1976	14,420	14,030	390	8	241	14,445	226	14,219
Per cent change	+5.3	+5.0	+20.0	-11.1	-58.4	+4.5	-69.9	+8.8
1976 Jan-May	7,003	6,805	198	4	135	7,000	158	6,842
1977 Jan-May p	7,326	7,224	102	4	79	7,316	48	7,268
Per cent change	+4.6	+6.2	-48.5	+8.1	-41.5	+4.5	-69.6	+6.2
1976 Mar*	1,801	1,750	51	1	31	1,804	39	1,765
Apr	1,197	1,157	40	1	17	1,198	23	1,175
May	1,001	968	33	—	16	995	16	979
Total	3,999	3,875	124	2	64	3,997	78	3,919
1977 Mar*	1,779	1,756	23	1	15	1,783	11	1,772
Apr	1,289	1,281	8	1	8	1,288	8	1,280
May p	1,062	1,039	23	—	10	1,049	6	1,043
Total	4,130	4,076	54	2	33	4,120	25	4,095
Per cent change	+3.3	+5.2	-56.5	+4.8	-48.4	+3.1	-67.9	+4.5

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

2. Mainly naphtha (LDF), liquid petroleum gases and refinery gases.

TABLE 8. Sales of gas by the public supply system

Million therms

	Total	Power stations <sup>1</sup>	Iron and steel industry	Other industries	Domestic	Other <sup>2</sup>
1971	7,520	263	343	2,118	3,930	866
1972	9,787	630	437	3,215	4,509	996
1973	10,729	285	396	4,150	4,815	1,083
1974	12,668	985	395	4,635	5,384	1,269
1975	13,112	858	371	4,645	5,891	1,347
1976 p	13,997	640	438	5,182	6,194	1,543
Per cent change	+6.8	-25.4	+18.1	+11.6	+5.1	+14.6
1974 4th quarter	3,653	211	97	1,260	1,698	387
1975 1st quarter	4,390	207	101	1,281	2,329	472
2nd quarter	2,798	200	91	1,078	1,119	310
3rd quarter	2,067	208	79	994	615	171
4th quarter	3,857	243	100	1,292	1,823	394
1976 1st quarter p	4,765	240	108	1,443	2,403	571
2nd quarter p	2,865	158	112	1,221	1,055	319
3rd quarter p	2,149	122	99	1,066	686	176
4th quarter p	4,218	120	119	1,452	2,050	477
Per cent change	+9.4	-50.6	+19.0	+12.4	+12.5	+21.1

1. Public supply power stations only. 2. Public administration & commerce.

# Electricity

TABLE 9. Fuel used and electricity generated by the public supply system

	Fuel used						Electricity generated			Own <sup>5</sup> use	Electricity supplied	Total <sup>6</sup> electricity 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 tons of coal or coal equivalent						TWh					
United Kingdom												
1973	114.68	75.57	28.04	1.13	8.22	1.66	258.80	23.66	229.89	18.43	240.37	244.76
1974	110.49	65.97	28.51	3.86	10.28	1.81	250.47	29.40	215.70	18.07	232.40	236.68
1975	108.97	73.39	21.14	3.37	9.29	1.64	251.26	26.52	219.69	18.02	233.24	237.26
1976 p	108.76	76.59	16.78	2.51	11.22	1.61	254.92	32.42	217.52	19.17	235.75	239.38
Per cent change	-0.2	+4.4	-20.6	-25.4	+20.8	-2.0	+1.5	+22.2	-1.0	+6.4	+1.1	+0.9
1976 Jan-Apr	40.81	28.20	6.82	1.21	3.73	0.83	95.62	10.73	82.58	6.87	88.75	90.15
1977 Jan-Apr p	42.30	30.16	6.42	0.38	4.66	0.66	99.30	13.35	83.89	7.23	92.07	93.21
Per cent change	+3.7	+7.0	-5.9	-68.6	+24.9	-20.5	+3.8	+24.4	+1.6	+5.2	+3.7	+3.4
1976 Feb	10.85	7.74	1.75	0.29	0.85	0.21	25.26	2.46	22.23	1.76	23.50	23.84
Mar*	12.09	8.32	2.12	0.32	1.12	0.21	28.44	3.23	24.60	2.04	26.40	26.80
Apr	8.29	5.48	1.44	0.26	0.93	0.18	19.56	2.65	16.43	1.44	18.12	18.43
Total	31.23	21.54	5.31	0.87	2.90	0.60	73.26	8.34	63.26	5.24	68.02	69.07
1977 Feb	10.51	7.64	1.44	0.13	1.15	0.14	24.62	3.29	20.88	1.81	22.81	23.05
Mar*	11.94	8.26	1.83	0.13	1.48	0.23	28.33	4.24	23.40	2.09	26.24	26.57
Apr p	8.76	6.33	1.26	—	1.02	0.15	20.57	2.92	17.22	1.49	19.08	19.35
Total	31.21	22.23	4.53	0.26	3.65	0.52	73.52	10.45	61.50	5.39	68.13	68.97
Per cent change	-0.1	+3.2	-14.7	-70.1	+25.9	-13.3	+0.4	+25.3	-2.8	+2.9	+0.2	-0.1
England and Wales												
1973	99.43	67.14	23.56	1.13	7.45	0.09	225.24	21.42	202.18	16.24	209.00	212.72
1974	96.09	58.63	24.00	3.86	9.43	0.12	218.85	26.93	190.43	15.90	202.95	205.55
1975	94.62	64.67	17.95	3.37	8.40	0.09	219.25	23.94	194.33	15.32	203.93	206.39
1976 p	94.29	67.97	13.84	2.51	9.84	0.08	222.12	28.30	193.11	15.95	206.17	207.62
Per cent change	-0.4	+5.1	-22.9	-25.4	+17.2	-11.4	+1.3	+18.2	-0.6	+4.1	+1.1	+0.6
1976 Jan-Apr	35.23	24.83	5.73	1.21	3.40	0.04	83.00	9.72	72.99	5.74	77.26	77.87
1977 Jan-Apr p	36.45	26.71	5.27	0.38	4.02	0.05	85.90	11.48	74.01	6.04	79.86	80.51
Per cent change	+3.5	+7.6	-8.0	-68.6	+18.2	+25.0	+3.5	+18.1	+1.4	+5.2	+3.4	+3.4
1976 Feb	9.37	6.81	1.47	0.29	0.78	0.01	21.91	2.24	19.60	1.49	20.42	20.65
Mar*	10.47	7.33	1.78	0.32	1.03	0.01	24.75	2.95	21.72	1.71	23.04	23.14
Apr	7.16	4.83	1.22	0.26	0.84	0.01	17.04	2.38	14.60	1.22	15.82	15.92
Total	27.00	18.97	4.47	0.87	2.65	0.03	63.70	7.57	55.92	4.42	59.28	59.71
1977 Feb	9.07	6.76	1.17	0.13	0.98	0.02	21.30	2.81	18.40	1.49	19.81	19.82
Mar*	10.27	7.39	1.50	0.13	1.24	0.01	24.47	3.55	20.81	1.74	22.73	22.93
Apr p	7.55	5.61	1.03	—	0.90	0.01	17.82	2.55	15.19	1.28	16.54	16.78
Total	26.89	19.76	3.70	0.26	3.12	0.04	63.59	8.91	54.40	4.51	59.08	59.53
Per cent change	-0.4	+4.2	-17.2	-70.1	+17.7	+33.3	-0.2	+17.7	-2.7	+2.0	-0.3	-0.3

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 on works and for pumping at pumped storage stations. 6. Includes net imports and purchases from outside sources mainly UKAEA and British Nuclear Fuels Ltd. 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>
1971	203,433	10,837	69,337	80,674	42,585
1972	210,417	10,774	68,967	86,889	43,787
1973	225,267	11,646	75,327	91,299	46,995
1974	218,552	11,292	70,967	92,626	43,667
1975	217,765	11,164	70,916	88,938	46,747
1976 p	220,532	12,576	74,914	84,802	48,240
Per cent change	+1.3	+12.6	+5.6	-4.7	+3.2
1974 4th quarter	63,009	3,026	19,521	26,804	13,658
1975 1st quarter	65,993	3,103	18,643	30,389	13,858
2nd quarter	50,309	2,732	17,225	19,855	10,497
3rd quarter	42,009	2,407	16,215	14,194	9,193
4th quarter	59,454	2,922	18,833	24,500	13,199
1976 1st quarter p	66,099	3,199	19,578	28,906	14,416
2nd quarter p	48,978	3,062	17,874	17,475	10,567
3rd quarter p	43,235	2,866	17,253	13,745	9,371
4th quarter p	62,220	3,449	20,209	24,676	13,886
Per cent change	+4.7	+18.0	+7.3	+0.7	+5.2

1. Mainly commerce, public administration & agriculture

# Petroleum

TABLE 11. Production, arrivals and shipments<sup>1</sup>

Thousand tonnes

	Crude Petroleum						Petroleum products				
	Gross <sup>2</sup> Indigenous Production	Refinery Receipts				Arrivals <sup>4,5</sup>	Shipments <sup>4,5</sup>	Arrivals <sup>4</sup>	Shipments <sup>4</sup>	Net Arrivals	Bunkers <sup>6</sup>
		Total	Indigenous <sup>2</sup>	Net arrivals	Other <sup>3</sup>						
1973	373	114,032	235	+112,237	1,560	115,472	3,235	17,808	16,681	+1,127	5,499
1974	410	113,478	250	+111,418	1,810	112,822	1,404	14,256	14,396	-140	4,759
1975	1,564	92,273	1,156	+89,842	1,275	91,366	1,524	12,461	13,664	-1,203	3,444
1976	12,036	98,384	11,511	+86,181	692	90,466	4,285	10,422	15,726	-5,304	3,569
Per cent change	(+)	+6.6	(+)	-4.1	-45.7	-1.0	(+)	-16.4	+15.1	(+)	+3.2
1976 Jan-Apr	1,972	31,942	1,856	+29,584	502	30,288	704	4,295	4,557	-262	1,174
1977 Jan-Apr p	10,592	31,210	10,047	+21,086	77	25,006	3,920	3,999	4,707	-708	1,014
Per cent change	(+)	-2.3	(+)	-28.7	(-)	-17.4	(+)	-6.9	+3.3	(+)	-13.6
1976 Feb	435	8,088	385	+7,575	128	7,737	162	1,078	1,126	-48	295
Mar	536	7,656	480	+7,030	146	7,134	104	1,462	1,091	+371	297
Apr	646	8,495	619	+7,760	116	7,947	187	929	1,353	-424	272
Total	1,617	24,239	1,484	+22,365	390	22,818	453	3,469	3,570	-101	864
1977 Feb	2,410	7,777	2,373	+5,389	15	6,289	900	944	1,258	-314	257
Mar	3,018	8,125	2,643	+5,422	60	6,547	1,125	1,022	1,119	-97	267
Apr p	2,921	7,612	2,947	+4,634	31	5,706	1,072	800	1,080	-280	239
Total	8,349	23,514	7,963	+15,445	106	18,542	3,097	2,766	3,457	-691	763
Per cent change	(+)	-3.0	(+)	-30.9	(-)	-18.7	(+)	-20.3	-3.2	(+)	-11.7

1. Calendar months. 2. Including natural gas liquids (condensates). 3. Mainly recycled products. 4. Foreign trade as recorded by the Petroleum Industry and may differ from figures published in Overseas Trade Statistics. 5. Including process (partly refined) oils. 6. International bunkers.

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

Thousand tonnes

	Through- put of crude and process oils	Refinery use		Total output of petrol- eum pro- ducts <sup>2</sup>	Gases		Naphtha (LDF)	Motor spirit	Kerosene		Gas/ diesel oil	Fuel oil	Lubri- cating oils	Bitumen
		Fuel	Losses		Butane and propane	Other petro- leum			Aviation turbine fuel	Burning oil <sup>3</sup>				
1973	114,338	7,053	1,331	105,954	1,655	394	6,607	14,842	4,550	2,717	27,853	42,026	1,477	2,225
1974	111,217	6,946	1,211	103,060	1,602	272	6,448	14,520	4,475	2,564	27,641	40,022	1,455	2,129
1975	93,579	6,031	901	86,647	1,447	151	3,968	13,940	3,959	2,299	23,324	32,711	1,141	2,099
1976	97,784	6,342	1,158	90,284	1,575	158	4,583	15,232	4,163	2,458	24,198	32,696	1,310	1,897
Per cent change	+4.5	+5.2	+28.5	+4.2	+8.8	+4.4	+15.5	+9.3	+5.2	+6.9	+3.7	-0.0	+14.8	-9.6
1976 Jan-Apr	32,569	2,164	326	30,079	574	57	1,594	4,745	1,273	1,027	8,383	10,670	429	617
1977 Jan-Apr p	32,601	2,017	379	30,205	531	50	1,516	4,807	1,142	975	8,215	11,356	438	556
Per cent change	+0.1	-6.8	+16.2	+0.4	-7.4	-12.1	-4.9	+1.3	-10.3	-5.1	-2.0	+6.4	+2.0	-9.9
1976 Feb	7,637	522	110	7,005	141	15	435	1,128	268	283	1,961	2,336	107	162
Mar	8,241	548	82	7,611	139	16	385	1,207	362	262	2,142	2,607	124	176
Apr	8,291	535	74	7,682	137	11	373	1,232	333	220	2,132	2,784	104	158
Total	24,169	1,605	266	22,298	417	42	1,193	3,567	963	765	6,235	7,727	335	496
1977 Feb	7,982	470	92	7,420	122	9	398	1,075	289	257	2,001	2,890	118	122
Mar	8,410	515	80	7,815	148	12	363	1,313	275	215	2,169	2,892	105	182
Apr p	8,066	497	115	7,454	130	16	352	1,266	346	201	2,044	2,676	99	156
Total	24,458	1,482	287	22,689	400	37	1,113	3,654	910	673	6,214	8,458	322	460
Per cent change	+1.2	-7.7	+7.3	+1.8	-4.1	-9.6	-6.7	+2.5	-5.5	-12.0	-0.3	+9.4	-3.8	-7.4

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, 3</sup>	Butane <sup>4</sup> and propane	Naphtha (LDF) <sup>5</sup>	Motor spirit	Kerosene				Gas/diesel oil		Fuel oil	Lubri- cating oils	Bitumen
					Aviation turbine fuel	Burning oil							
						Premier	Standard		Derv fuel	Other			
							Domestic	Other <sup>6</sup>					
1973	99,344	1,600	8,373	16,927	4,202	788	1,931	501	5,658	15,100	39,447	1,185	2,458
1974	92,342	1,414	7,700	16,484	3,690	603	1,770	436	5,518	13,581	36,810	1,045	2,241
1975	81,667	1,275	5,116	16,125	3,834	538	1,707	400	5,414	13,050	30,470	992	2,089
1976	80,291	1,330	5,404	16,879	3,989	576	1,686	372	5,594	12,984	27,825	1,011	1,867
Per cent change	-1.7	+4.3	+5.6	+4.7	+4.0	+7.1	-1.3	-7.2	+3.3	-0.5	-8.7	+1.9	-10.6
1976 Jan-Apr	29,569	480	1,911	5,269	1,191	290	741	147	1,851	5,440	11,025	317	619
1977 Jan-Apr p	29,428	504	1,793	5,345	1,173	295	758	149	1,878	5,765	10,505	340	544
Per cent change	-0.5	+5.1	-6.2	+1.4	-1.6	+1.8	+2.3	+1.5	+1.4	+6.0	-4.7	+7.4	-12.1
1976 Feb	7,410	121	473	1,203	279	94	205	40	443	1,436	2,821	72	145
Mar	7,978	129	471	1,384	308	77	212	41	501	1,506	2,998	84	189
Apr	7,050	111	509	1,461	306	43	154	32	478	1,174	2,478	84	154
Total	22,438	361	1,453	4,048	893	214	571	113	1,422	4,116	8,297	240	488
1977 Feb	7,073	125	379	1,260	277	74	188	37	453	1,410	2,584	84	124
Mar	7,721	130	479	1,462	325	63	195	40	531	1,496	2,624	94	185
Apr p	6,862	118	407	1,420	275	55	170	32	475	1,286	2,301	82	137
Total	21,656	373	1,265	4,142	877	192	553	109	1,459	4,192	7,509	260	446
Per cent change	-3.5	+3.3	-12.9	+2.3	-1.8	-10.7	-3.4	-3.5	+2.5	+1.9	-9.5	+7.9	-8.6

1. Calendar months. 2. Including other petroleum gases, aviation spirit, wide-cut gasoline, industrial & white spirits, and paraffin wax.

3. Excluding refinery fuel and miscellaneous products. 4. Including very small amounts for petro-chemicals. 5. Now mainly for petrochemical feedstock.

6. Including vaporising oil.

TABLE 14. Inland deliveries of petroleum products used for energy<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>
1971	81,863	15,058	2,706	5,292	21,068	26,043	3,015	8,681
1972	87,788	19,039	2,249	5,044	21,899	27,152	3,485	8,920
1973	88,196	16,993	2,355	4,995	22,045	28,971	3,812	9,025
1974	81,547	17,240	1,339	4,019	19,695	27,930	3,378	7,946
1975	73,385	13,345	693	3,309	17,251	27,582	3,270	7,935
1976	71,473	10,441	366	3,128	17,487	28,599	3,269	8,183
Per cent change	-2.6	-21.8	-47.3	-5.5	+1.4	+3.7	-0.0	+3.1
1976 Jan	6,434	1,053	54	263	1,721	2,094	356	893
Feb	6,670	1,047	45	284	1,804	2,093	417	980
Mar	7,185	1,147	46	317	1,855	2,376	416	1,028
Total	20,289	3,247	145	864	5,380	6,563	1,189	2,901
1977 Jan	6,987	1,193	32	302	1,892	2,092	430	1,046
Feb	6,426	922	31	271	1,739	2,163	371	929
Mar p	6,889	898	32	283	1,811	2,531	370	964
Total	20,302	3,013	95	856	5,442	6,786	1,171	2,939
Per cent change	+0.1	-7.2	-34.7	-0.9	+1.1	+3.4	-1.6	+1.3

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

	Held by oil companies <sup>1</sup>		Power stations <sup>2</sup>
	Million tonnes	Estimated days' supply <sup>3</sup>	Million tonnes
1976 Mar	19.3	90	0.89
Apr	19.2	97	0.81
May	20.2	105	0.82
1977 Mar	19.3	88	0.81
Apr	19.0	94	0.75
May p	20.1	103	0.77

1. Stocks of petroleum products plus the product equivalent of crude and process oils held at refineries, and products in the wholesale distribution system. 2. Fuel oil held at main oil burning stations in Great Britain.

3. Latest three months calculated on forecast deliveries for the ensuing months. Figures for earlier period calculated on actual deliveries.

## 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 tons coal equiv.	Million tonnes oil equiv.	Million therms	TWh Electrical energy	TWh Electricity generated
Million tons coal equivalent	1	1.65	0.00390	0.135 <sup>1</sup>	0.500 <sup>2</sup>
Million tonnes oil equivalent	0.600	1	0.00235	0.0800 <sup>1</sup>	0.280 <sup>2</sup>
Million therms	255	425	1	34.0	115
TWh Electrical energy	7.45	12.5	0.0295	1	..
TWh Electricity generated	2.00 <sup>3</sup>	3.60 <sup>3</sup>	0.00880 <sup>3</sup>	..	1

1. The amount of fuel (average grade) equivalent to 1 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 the fuel shown.

The *Digest of UK Energy Statistics 1976* gives more detailed factors.

## SUPPLEMENTARY DATA

Prices of fuels used by Industry in Great Britain<sup>1</sup>

	Delivered to large industrial consumers <sup>2</sup>					Realised in new and renewed medium size contracts <sup>3</sup>	
	Coal	Heavy Fuel Oil	Gas Oil	Gas	Electricity	Heavy Fuel Oil	Gas Oil
	£ per ton			Pence per therm	Pence per KWh	£ per ton	
1974 3rd quarter	9.8	32.8	51.8	3.03	0.924	33.8	54.0
4th quarter	11.8	33.4	51.6	3.44	1.095	40.7	58.2
1975 1st quarter	13.3	38.8	55.0	3.65	1.179	41.1	59.4
2nd quarter	15.1	38.2	54.2	4.15	1.178	40.6	55.5
3rd quarter	14.9	37.5	50.7	4.43	1.249	39.4	54.0
4th quarter	15.6	38.7	53.9	4.84	1.354	46.4	70.3
1976 1st quarter	17.4	42.1	64.0	5.73	1.453	45.3	70.8
2nd quarter	17.8	41.5	62.0	5.72	1.447	44.2	69.5
3rd quarter	18.0	43.1	61.7	6.74	1.461	45.1	70.6
4th quarter	19.4	47.9	68.2	7.58	1.592	55.2	82.1
1977 1st Quarter p	20.2	54.2	77.2	8.55	1.709	..	..

1. Prices for oil products include hydrocarbon oil duty.

2. Derived from data relating to purchases received; the data can include business under contracts made in earlier times. Prices vary widely around the average values shown above.

3. Derived from prices reported by the ten main oil marketing companies and relate to average net prices realised on medium sized new contracts or contracts which are renewed at a changed price. The coverage may extend beyond manufacturing industry and may include for example larger commercial users.