



Slowdown in recent growth

Total Energy

Consumption lower in March

Total inland energy consumption on a primary fuel input basis during the first quarter of 1977 was 2.2 per cent higher than in the corresponding period of 1976. Coal and natural gas consumption rose by 3.2 and 3.9 per cent respectively and nuclear electricity by nearly a quarter, while petroleum was marginally below last year's level, mainly due to a sharp decline in deliveries in the most recent month.

After seasonal adjustment and correction for temperature differences, all fuels except nuclear electricity were closer to last year's levels with total consumption narrowing to an increase of only 1.8 per cent.

Coal

Industrial consumption higher

Deep-mined coal production during the three month period February to April was 1.0 per cent lower than in the comparable period of 1976. Opencast output for the period as a whole was marginally below that of last year but production in the most recent month improved substantially and was 15 per cent higher than a year ago.

Total consumption of coal in February to April was 2.5 per cent higher than a year ago, most of the increase being due to the 1.1 million tons rise in power station consumption. Deliveries to industry were 12.2 per cent higher than last year, a continuing month on month increase evident since last Autumn. Total stocks of coal fell by nearly $\frac{1}{4}$ million tons during April and at the end of the month were $2\frac{3}{4}$ million tons lower than a year previously.

Gas

Increase in demand in April

Total gas sent out during the three-month period February to April was 4,624 million therms, fractionally lower than in the corresponding period of 1976. During each of the first two months of the period, gas sent out was below last year's levels but the much colder weather in April this year stimulated a substantial increase in demand.

Electricity

Growing nuclear contribution

Total fuel used for generation during the first quarter of 1977 was 3.4 per cent greater than during the corresponding period of 1976. Coal consumption rose by nearly 1.2 million tons while in terms of coal equivalent, the use of oil fell by 0.2 million tons and natural gas by 0.55 million tons to less than half last year's consumption level. The growth of nuclear electricity, which contributed an additional 0.85 million tons coal equivalent during the period, helped to limit additional demands for fossil fuel.

Electricity supplied during the first quarter was about $3\frac{1}{2}$ per cent higher than in the comparable period of last year. Almost the

whole of the increase occurred during January, which was very cold, and more recently electricity supplied has returned much closer to the levels of a year ago.

Petroleum

Deliveries lower recently

Refinery output of products during the first quarter of 1977 was 1.6 per cent higher in total than in the comparable period of 1976. The increase was almost wholly attributable to fuel oil, output of which rose by 10.1 per cent. In contrast, inland deliveries of fuel oil were 4.2 per cent lower than a year ago, the higher output going mainly to meet higher export demand.

Although total inland deliveries of products during the first quarter of 1977 remained at virtually last year's level, they were much influenced by the very high January deliveries and declines are apparent during the two most recent months in most major products except motor spirit and derv fuel.

Value of fuel imports and exports

The final table this month shows the value of overseas trade in fuels. During the first quarter of 1977, the value of crude oil imports was 7 per cent higher than in the first quarter of 1976. The actual volume of imports fell by 3.1 million tons, 13.4 per cent, and the higher value was wholly attributable to the substantial rise in crude oil import prices. Similarly, the 3.9 per cent rise in the value of imports of refined products was accompanied by a 17 per cent decline in volume.

Exports of petroleum, both crude and refined, in the first quarter of 1977 were, however, £232 million higher than during the first quarter of last year and more than offset the £86 million rise in the cost of imports.

Correction April Energy Trends, front page

Total energy, penultimate line — for "4 per cent" read "9 per cent"

Gas. Line 7 — for "20 per cent" read "12 per cent".

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.

Recipients should notify the COI of any change of address or of requirement.

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 ¹	Petroleum ²	Natural gas ³	Nuclear electricity	Hydro-electricity	Total	Coal ¹	Petroleum ²	Natural gas ³	Nuclear electricity	Hydro-electricity
	<i>Million tons of coal or coal equivalent</i>						<i>Million metric tonnes of oil or oil equivalent</i>					
1971	325.7	137.1	148.8	28.4	9.7	1.7	194.9	82.0	89.0	17.0	5.8	1.1
1972	332.7	120.5	159.6	40.3	10.5	1.8	198.8	72.0	95.4	24.0	6.3	1.1
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	28.2	9.9	10.6	6.4	1.0	0.3	16.9	5.9	6.4	3.8	0.6	0.2
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
Total	94.7	34.6	37.0	19.1	3.3	0.7	56.7	20.7	22.3	11.4	1.9	0.4
1977 Jan	30.9	11.0	11.5	7.2	1.1	0.1	18.4	6.5	6.8	4.3	0.7	0.1
Feb	30.9	11.6	11.6	6.2	1.3	0.2	18.5	7.0	7.0	3.7	0.7	0.1
Mar p*	35.0	13.1	13.7	6.3	1.6	0.3	20.9	7.8	8.2	3.8	1.0	0.1
Total	96.8	35.7	36.8	19.7	4.0	0.6	57.8	21.3	22.0	11.8	2.4	0.3
Per cent change	+2.2	+3.2	–0.9	+3.9	+23.3	–20.4	+2.2	+3.2	–0.9	+3.9	+23.3	–20.4

Seasonally adjusted and temperature corrected⁴ (annual rates)

1976 Jan	319.7	123.7	124.9	58.8	10.5	1.8	191.1	73.9	74.7	35.1	6.3	1.1
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
Average	329.3	124.4	131.7	60.5	10.8	1.9	196.7	74.3	78.7	36.2	6.4	1.1
1977 Jan	330.4	124.0	128.1	65.0	12.2	1.1	197.4	74.1	76.6	38.8	7.3	0.6
Feb	342.2	133.2	133.7	60.5	13.5	1.3	204.5	79.6	79.9	36.2	8.0	0.8
Mar p*	333.2	125.4	131.8	59.3	14.4	2.3	199.2	74.9	78.8	35.5	8.6	1.4
Average	335.1	127.4	131.2	61.4	13.5	1.6	200.3	76.1	78.5	36.7	8.0	1.0
Per cent change	+1.8	+2.4	–0.4	+1.5	+25.0	–14.6	+1.8	+2.4	–0.4	+1.5	+25.0	–14.6

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)¹

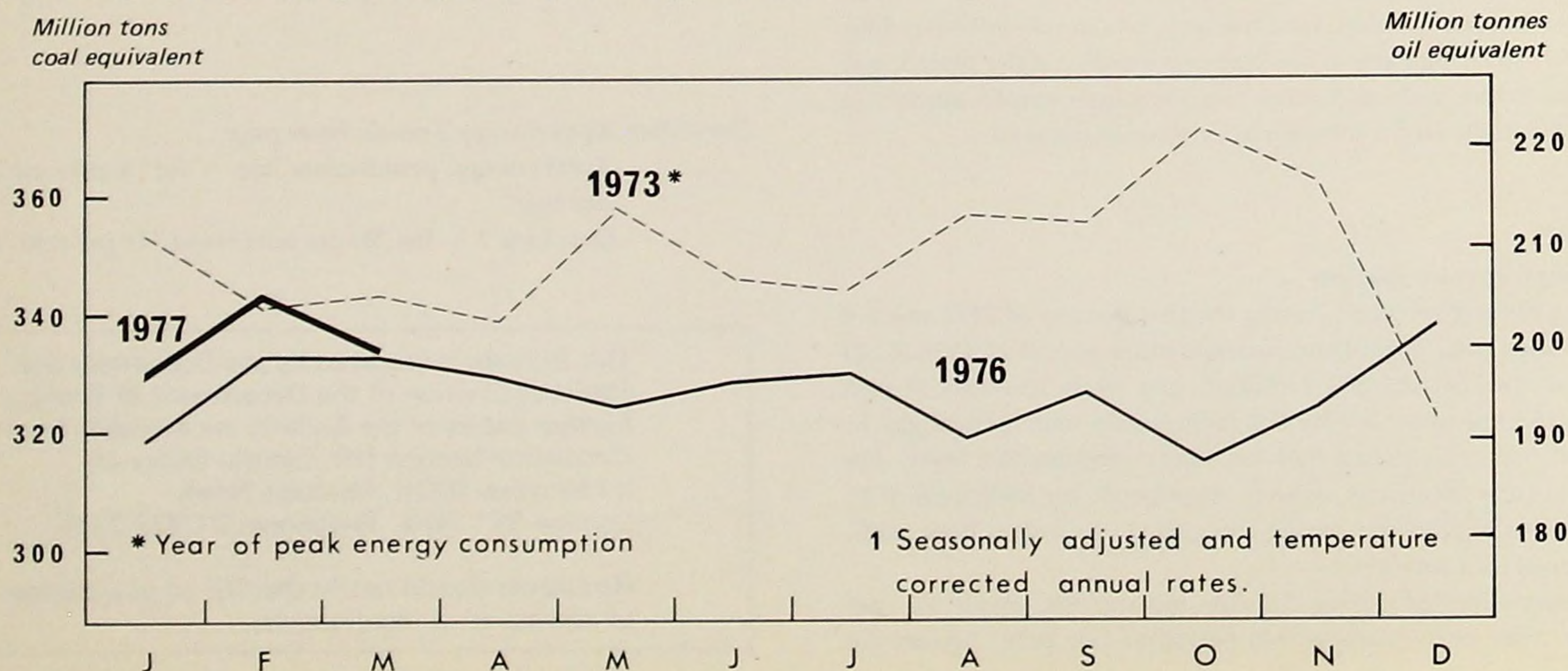


TABLE 2. Supply and use of fuels

Million therms

	1975	1976 p	Per cent change	1974	1975				1976p				Per ¹ cent change
				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 ²	665	5,121	(+)	51	56	57	137	415	564	1,003	1,311	2,243	(+)
Natural gas ³	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 ⁴	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 ⁵													
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 ⁶	-176	-149	..	-9	-168	+17	-13	-12	+110	-10	-17	-232	..
Total primary ⁷ 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. ⁸	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 ⁹	2,374	2,664	+12.2	673	746	575	482	571	617	703	655	689	+20.7
Other coal-derived fuels ¹⁰	372	406	+9.1	104	107	97	76	92	98	109	98	101	+9.8
Gas ¹¹	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 ⁹	164	128	-22.0	51	47	47	40	30	38	23	28	39	+30.0
Other coal-derived fuels ¹⁰	78	77	-1.3	17	17	23	22	16	18	27	17	15	-6.3
Gas ¹¹	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 ⁹	962	892	-7.3	297	270	231	260	201	284	202	213	193	-4.0
Gas ¹¹	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 ¹²													
Coal	490	520	+6.1	213	129	123	78	160	172	112	73	163	+1.9
Other solid fuel ⁹	219	178	-18.7	65	64	49	63	43	55	47	40	36	-16.3
Gas ¹¹	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 ⁹	3,719	3,862	+3.8	1,086	1,127	902	845	845	994	975	936	957	+13.3
Other coal-derived fuels ¹⁰	450	483	+7.3	121	124	120	98	108	116	136	115	116	+7.4
Gas ¹¹	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 ²	Exports ²	Tonnage lost (deep-mined) ³	
		Total ¹	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	9,035	+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-Apr	42,637	42,015	37,877	3,606	+622	1,050	428	3,019	283
1977 Jan-Apr p	40,295	40,392	36,545	3,552	-97	551	648	3,465	243
Per cent change	-5.5	-3.9	-3.5	-1.5	(-)	-47.5	+51.4	+14.8	-14.1
1976 Feb	10,973	10,747	9,660	940	+226	322	96	-	155
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
Total	34,109	33,587	30,207	2,948	+522	851	329	840	251
1977 Feb	10,314	10,407	9,453	856	-93	106	199	-	51
Mar*	12,931	13,099	11,900	1,139	-168	48	216	-	71
Apr p	9,580	9,601	8,554	949	-21	123	144	846	43
Total	32,825	33,107	29,907	2,944	-282	277	559	846	165
Per cent change	-3.8	-1.4	-1.0	-0.1	(-)	-67.5	+69.9	+0.7	-34.3

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 of the United Kingdom". 3. NCB mines only.

TABLE 4. Inland consumption of coal

Thousand tons

	Total inland consumption	Fuel producers					Final users ¹			
		Primary		Secondary			Colliery disposals			
		Collieries	Power stations ²	Coke ovens	Gas works	Other ³ conversion industries	Industry ⁴	Domestic ⁵		Other ⁸
								House Coal ⁶	Other ⁷	
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-Apr	43,588	426	28,197	6,087	3	1,225	2,788	3,579	443	840
1977 Jan-Apr p	45,509	392	30,356	6,207	3	936	3,080	3,302	413	820
Per cent change	+4.4	-8.0	+7.7	+2.0	-	-23.6	+10.5	-7.7	-6.8	-2.4
1976 Feb	11,510	115	7,740	1,395	1	295	732	886	109	237
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
Total	33,707	340	21,538	4,718	3	941	2,209	2,960	336	662
1977 Feb	11,651	98	7,724	1,516	1	227	826	913	112	234
Mar*	13,084	126	8,446	1,855	1	280	984	1,014	137	241
Apr p	9,829	94	6,475	1,382	1	217	668	729	92	171
Total	34,564	318	22,645	4,753	3	724	2,478	2,656	341	646
Per cent change	+2.5	-6.5	+5.1	+0.7	+4.0	-23.1	+12.2	-10.2	+1.5	-2.4

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 coal¹ 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 Feb	29,274	18,420	15,776	2,403	1	240	10,854	9,351	1,503
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
1977 Feb	27,791	18,150	15,644	2,344	2	160	9,641	8,568	1,073
Mar	27,704	18,112	15,586	2,354	2	170	9,592	8,539	1,053
Apr p	27,472	17,706	15,274	2,260	2	170	9,766	8,612	1,154
Absolute change:									
In latest month	-232	-406	-312	-94	-	-	+174	+73	+101
On a year ago	-2,775	-1,328	-1,024	-235	+1	-70	-1,447	-1,215	-232

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 ¹		Recruitment	Wastage	Absence percentage ²			Average output per manshift ³	
	Total	Underground			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 Feb	244	194	1,252	1,821	19.9	4.4	15.5	46.33	158.17
Mar*	244	194	1,442	1,934	21.6	4.3	17.3	46.20	156.44
Apr	243	194	1,110	1,668	17.7	4.3	13.4	44.59	152.88
1977 Feb	241	192	2,066	1,841	19.4	4.1	15.3	45.16	155.77
Mar*	242	192	3,386	2,364	19.7	4.3	15.4	45.80	158.78
Apr p	243	193	2,941	1,906	18.5	4.5	14.0	44.48	156.84

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 ¹		Coal	Oil ²	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-Apr	6,002	5,837	165	3	119	6005	142	5,863
1977 Jan-Apr p	6,264	6,185	79	4	69	6268	42	6,226
Per cent change	+4.4	+6.0	-52.0	+9.4	-41.4	+4.4	-70.3	+6.2
1976 Feb	1,621	1,581	40	1	41	1,625	41	1,584
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
Total	4,619	4,488	131	3	89	4,627	103	4,524
1977 Feb	1,550	1,526	24	1	18	1,553	11	1,542
Mar* p	1,779	1,756	23	1	15	1,783	11	1,772
Apr p	1,289	1,281	8	1	8	1,288	8	1,280
Total	4,618	4,563	55	3	41	4,624	30	4,594
Per cent change	-0.0	+1.7	-58.0	+4.2	-53.9	-0.1	-70.9	+1.5

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 ¹	Iron and steel industry	Other industries	Domestic	Other ²
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 ⁵ use	Electricity supplied	Total ⁶ electricity available
	Total ¹	Coal ²	Oil ^{2 3}	Natural gas	Nuclear electricity	Hydro electricity	Total ⁴	By steam plant				
								Nuclear	Other			
	Million tons of coal or coal equivalent						TWh					
United Kingdom												
1971	105.95	71.18	24.16	1.05	8.05	1.45	235.74	23.21	207.81	17.74	218.00	222.37
1972	109.37	65.25	31.25	2.48	8.89	1.47	242.75	25.30	212.20	18.05	224.70	229.23
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	9.53	6.66	1.51	0.34	0.83	0.24	22.36	2.38	19.33	1.62	20.74	21.08
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
Total	32.52	22.72	5.38	0.95	2.80	0.66	76.06	8.07	66.16	5.42	70.64	71.72
1977 Jan	11.09	7.94	1.88	0.13	1.00	0.13	25.78	2.90	22.40	1.84	23.94	24.23
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 p*	12.04	8.30	1.86	0.14	1.50	0.24	28.57	4.27	23.61	2.11	26.46	26.79
Total	33.64	23.88	5.18	0.40	3.65	0.51	78.97	10.46	66.89	5.76	73.21	74.07
Per cent change	+3.4	+5.1	-3.7	-57.9	+30.4	-22.7	+3.8	+29.6	+1.1	+6.3	+3.6	+3.3
England and Wales												
1971	93.40	64.95	20.07	1.05	7.19	0.08	208.07	20.68	186.14	15.33	192.74	195.13
1972	95.63	58.21	26.74	2.48	8.08	0.09	212.91	23.01	187.95	15.71	197.20	200.24
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	8.23	5.86	1.25	0.34	0.76	0.02	19.32	2.16	17.07	1.35	17.97	18.16
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
Total	28.07	20.00	4.50	0.95	2.57	0.04	65.98	7.35	58.39	4.55	61.43	61.95
1977 Jan	9.56	6.94	1.58	0.13	0.89	0.01	22.31	2.57	19.62	1.53	20.78	20.98
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 p*	10.35	7.43	1.52	0.14	1.25	0.01	24.68	3.58	20.98	1.76	22.92	23.12
Total	28.98	21.13	4.27	0.40	3.12	0.04	68.29	8.96	59.00	4.78	63.51	63.92
Per cent change	+3.3	+5.7	-5.1	-57.9	+21.4	+20.0	+3.5	+21.9	+1.0	+5.1	+3.4	+3.2

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 ¹
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 shipments¹

Thousand tonnes

	Crude Petroleum							Petroleum products			
	Gross ² Indigenous Production	Refinery Receipts				Arrivals ^{4,5}	Shipments ^{4,5}	Arrivals ⁴	Shipments ⁴	Net Arrivals	Bunkers ⁶
		Total	Indigenous ²	Net arrivals	Other ³						
1971	212	107,031	138	+106,167	726	107,736	1,569	19,071	16,948	+2,123	5,655
1972	333	105,641	226	+104,148	1,267	107,706	3,558	20,440	15,775	+4,665	5,225
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 p	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	355	7,703	372	+7,219	112	7,469	250	825	986	-161	311
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
Total	1,326	23,447	1,237	+21,824	386	22,340	516	3,365	3,203	+162	903
1977 Jan p	2,244	7,694	2,083	+5,640	-29	6,463	823	1,186	1,250	-64	251
Feb p	2,410	7,777	2,373	+5,389	15	6,289	900	918	1,258	-340	257
Mar p	3,035	8,125	2,926	+5,139	60	6,547	1,408	1,023	1,119	-96	268
Total	7,689	23,596	7,382	+16,168	46	19,299	3,131	3,127	3,627	-500	776
Per cent change	(+)	+0.6	(+)	-5.9	(-)	-13.6	(+)	-7.1	+13.2	(-)	-14.1

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 products¹

Thousand tonnes

	Through- put of crude and process oils	Refinery use		Total output of petrol- eum prod- ucts ²	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 ³				
1971	105,342	6,184	913	98,245	1,236	284	5,728	12,522	3,707	2,540	24,455	43,173	1,429	2,094
1972	106,980	6,420	1,192	99,368	1,463	369	5,728	13,632	4,180	2,649	25,536	41,002	1,333	2,004
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	8,400	559	60	7,781	157	15	402	1,178	310	262	2,147	2,943	94	121
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
Total	24,278	1,629	252	22,397	437	46	1,222	3,513	940	807	6,250	7,886	325	459
1977 Jan	8,145	536	93	7,516	131	13	403	1,153	233	301	2,001	2,899	116	97
Feb	7,982	470	92	7,420	122	9	398	1,075	289	257	2,001	2,890	118	122
Mar p	8,410	515	80	7,815	148	12	363	1,313	275	215	2,169	2,892	105	182
Total	24,537	1,521	265	22,751	401	34	1,164	3,541	797	773	6,171	8,681	339	401
Per cent change	+1.1	-6.7	+4.9	+1.6	-8.0	-26.3	-4.7	+0.8	-15.2	-4.1	-1.3	+10.1	+4.0	-12.8

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 consumption¹

Thousand tonnes

	Total ^{2, 3}	Butane ⁴ and propane	Naphtha (LDF) ⁵	Motor spirit	Kerosene				Gas/diesel oil		Fuel oil	Lubri- cating oils	Bitumen
					Aviation turbine fuel	Burning oil							
						Premier	Standard						
							Domestic	Other ⁶					
1971	91,520	1,196	7,623	14,964	3,667	713	1,369	532	5,186	12,569	39,395	1,148	2,208
1972	97,700	1,455	7,391	15,899	3,929	778	1,663	528	5,254	15,113	41,307	1,113	2,203
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	7,131	119	458	1,221	299	77	169	34	429	1,324	2,728	77	130
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
Total	22,519	369	1,402	3,808	886	248	586	115	1,373	4,266	8,547	233	464
1977 Jan	7,773	131	528	1,203	296	105	205	40	420	1,573	2,996	81	98
Feb	7,072	125	379	1,260	277	74	188	37	453	1,410	2,584	84	124
Mar p	7,654	129	456	1,463	325	61	193	37	529	1,486	2,608	100	182
Total	22,499	385	1,363	3,926	898	240	586	114	1,402	4,469	8,188	265	404
Per cent change	-0.1	+4.4	-2.8	+3.1	+1.3	-3.4	(-)	-0.5	+2.0	+4.8	-4.2	+13.3	-13.1

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^{1, 2}

Thousand tonnes

	Total	Power ³ Stations	Gas Works	Iron and steel industry	Other Industries	Transport ⁴	Domestic	Other ⁵
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	13,326	693	3,309	17,251	27,582	3,270	7,954
1976 p	71,473	10,441	366	3,128	17,487	28,599	3,269	8,183
Per cent change	-2.6	-21.6	-47.3	-5.5	+1.4	+3.7	-0.0	+2.9
1975 Dec	7,017	1,323	47	265	1,764	2,237	429	952
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
Total	20,121	3,423	146	812	5,289	6,424	1,202	2,825
1976 Dec	7,295	1,260	30	284	1,843	2,391	473	1,014
1977 Jan	6,987	1,193	32	302	1,892	2,092	430	1,046
Feb p	6,426	922	31	271	1,739	2,163	371	929
Total	20,708	3,375	93	857	5,474	6,646	1,274	2,989
Per cent change	+2.9	-1.4	-36.2	+5.5	+3.5	+3.5	+5.9	+5.8

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

	Held by oil companies ¹		Power stations ²
	Million tonnes	Estimated days' supply ³	Million tonnes
1976 Feb	20.4	85	0.98
Mar	19.3	90	0.89
Apr	19.2	97	0.81
1977 Feb	19.6	81	0.97
Mar	19.3	88	0.81
Apr p	19.0	93	0.75

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 ¹	0.500 ²
Million tonnes oil equivalent	0.600	1	0.00235	0.0800 ¹	0.280 ²
Million therms	255	425	1	34.0	115
TWh Electrical energy	7.45	12.5	0.0295	1	..
TWh Electricity generated	2.00 ³	3.60 ³	0.00880 ³	..	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

Value of fuel imports and exports (¹)

£ million

	Imports (c.i.f.)							Exports (f.o.b.)				
	Coal	Other solid fuel ²	Natural gas	Petroleum		Electricity	Total	Coal	Other solid fuel ²	Petroleum ³	Electricity	Total
				Crude	Refined ³							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1971	39.2	8.2	10.4	955.7	232.7	0.4	1,246.6	13.2	11.6	211.5	—	236.3
1972	48.9	11.3	9.4	947.0	223.2	1.7	1,241.5	9.7	9.2	219.7	—	238.6
1973	21.3	7.9	9.4	1,336.3	348.3	0.4	1,723.6	15.2	13.8	341.0	—	370.0
1974	62.1	7.2	8.1	3,856.3	701.9	0.4	4,636.0	20.8	46.9	701.0	—	768.7
1975	105.6	7.8	13.9	3,462.9	718.6	1.1	4,309.9	36.1	54.6	722.9	0.1	813.7
1976	82.7	9.0	20.3	4,585.8	954.1	—	5,651.9	30.6	47.7	1,175.4	1.1	1,254.8
Per cent change	-21.7	+16.1	+46.1	+32.4	+32.8	(-)	+31.1	-15.0	-12.7	+62.6	(+)	+54.2
1975 1st quarter	24.9	1.7	3.9	874.5	187.6	1.0	1,093.6	13.0	19.2	169.0	—	201.2
2nd quarter	27.0	1.8	2.5	834.8	144.0	0.1	1,010.2	8.7	13.0	151.9	0.1	173.7
3rd quarter	23.7	2.1	3.5	847.8	156.9	—	1,034.0	6.3	9.9	197.9	—	214.1
4th quarter	30.0	2.2	4.0	905.8	230.1	—	1,172.1	8.1	12.5	204.1	—	224.7
1976 1st quarter	19.7	2.3	6.2	1,096.7	244.4	—	1,369.3	6.5	11.8	222.9	—	241.2
2nd quarter	25.6	1.8	4.4	1,107.3	247.8	—	1,386.9	6.0	11.6	247.2	0.3	265.1
3rd quarter	18.7	2.7	5.2	1,143.5	230.3	—	1,400.4	8.5	11.4	324.6	0.1	344.6
4th quarter	18.7	2.2	4.5	1,238.3	231.6	—	1,495.3	9.6	12.9	380.7	0.7	403.9
1977 1st quarter	15.3	2.3	3.4	1,173.1	254.1	—	1,448.2	11.3	13.8	454.9	—	480.0
Per cent change	-22.3	+0.9	-44.3	+7.0	+3.9	—	+5.8	+72.6	+17.7	(+)	—	(+)

1. The figures correspond to those published in Section 3 of the "Overseas Trade Statistics".

2 including coke, breeze, briquettes and pitch. 3. Including liquefied gases other than natural gas and petroleum products not used as fuel e.g., lubricants.