



Little change in Consumption Levels

Total Energy

Recent decline in petroleum

During the three month period August to October, total inland energy consumption on a primary fuel input basis was less than 1 per cent above the level of the corresponding period of 1975. Coal consumption remained at almost exactly the level of last year but petroleum fell away sharply in October and during the period as a whole was 3 per cent lower. The small increase was accounted for by rises in natural gas and nuclear electricity.

After seasonal adjustment and correction for temperature differences, total consumption during the period was 1.3 per cent higher than a year ago, the same rate of increase recorded for January – October this year compared with the same period in 1975.

A small change has been incorporated in this issue in the table of "Primary Fuels and Equivalents" in Table 2. The table now distinguishes separate quarterly stock changes for solid fuels, crude oil and petroleum products.

Coal

House coal in greater demand

Output of deep-mined coal during the three month period September to November was slightly under 28 million tons, some 2½ million tons less than in the corresponding period of last year.

Total inland consumption of coal during the September to November period was just over 1 per cent higher than a year ago with power stations and coke ovens higher by about 1½ and 11 per cent respectively. With the onset of the heating season there was a revival in demand for house coal, and colliery disposals for the domestic market rose above last year's level in both September and October.

Stocks of coal at the end of November, both distributed and undistributed, continue at levels higher, in total, by some 3 million tons above the level at the same time last year.

Gas

Recent small increase in demand

Total gas sent out during the three month period September to November rose slightly to about ½ per cent above last year's figure. The low level of demand in October, which resulted from the above average temperatures, was reversed in November when, with colder weather, demand was raised slightly above the level of a year ago.

Electricity

Weather affects demand

Total electricity supplied in the three month period August to October was nearly 1½ per cent higher than in the comparable period of 1975. In the most recent month of the period, however, probably as a result of the warmer weather, electricity supplied was slightly lower than a year ago, a reversal of the trend in the last six months.

Petroleum

Low demand for heating oils

Total deliveries of petroleum products during the three month period August to October were over 2½ per cent lower than during the corresponding period of last year. The decline was very largely due to a sharp reduction in October when deliveries fell by nearly 10 per cent below those of a year ago.

Deliveries of premium grade burning oil, used mainly in free-standing heating stoves, and standard grade burning oil used in domestic central heating systems, declined by nearly 16 per cent and 18 per cent respectively compared with the same period last year. Of the individual major products, fuel oil deliveries fell by 8½ per cent and gas/diesel oil (other than Derv) by nearly 10 per cent. In contrast fuels used for transport i.e. Derv, motor spirit and aviation turbine fuel, ranged from about 2 to 3 per cent higher than a year ago.

Supplementary Data

Industrial fuel prices

Provisional results for the third quarter of 1976 are now available and are shown in the final table of this month's bulletin. Revisions have been made to the figures for the second quarter following the receipt of some late returns.

Average coal prices are now seen to have moved up steadily during the year and gas prices have experienced a sharp increase for the second time in the last twelve months.

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 issue of *Energy Trends* and on the first page of the August 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	Nuclear electricity	Hydro-electricity	Total	Coal ¹	Petroleum ²	Natural gas	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
Per cent change	–3.8	+1.8	–10.5	+4.7	–9.7	–7.2	–3.8	+1.8	–10.5	+4.7	–9.7	–7.2
1975 Jan-Oct	258.8	97.3	108.9	42.4	8.6	1.6	154.7	58.2	65.1	25.3	5.1	1.0
1976 Jan-Oct p	260.6	96.9	105.8	46.2	10.2	1.5	155.7	57.9	63.2	27.6	6.1	0.9
Per cent change	+0.7	–0.4	–2.9	+9.0	+18.3	–4.0	+0.7	–0.4	–2.9	+9.0	+18.3	–4.0
1975 Aug	17.8	6.7	7.7	2.6	0.7	0.1	10.6	4.0	4.5	1.6	0.4	0.1
Sept*	26.7	10.3	11.8	3.5	1.0	0.1	16.0	6.2	7.1	2.1	0.5	0.1
Oct	26.0	9.5	10.7	4.7	0.9	0.2	15.5	5.7	6.4	2.8	0.5	0.1
Total	70.5	26.5	30.2	10.8	2.6	0.4	42.1	15.9	18.0	6.5	1.4	0.3
1976 Aug	18.7	6.8	7.9	2.9	1.0	0.1	11.2	4.1	4.7	1.7	0.6	0.1
Sept*	27.0	10.3	11.5	3.8	1.3	0.1	16.1	6.1	6.9	2.3	0.8	—
Oct p	25.4	9.4	9.8	5.1	1.0	0.1	15.2	5.6	5.8	3.1	0.6	0.1
Total	71.1	26.5	29.2	11.8	3.3	0.3	42.5	15.8	17.4	7.1	2.0	0.2
Per cent change	+0.9	–0.2	–3.1	+8.7	+34.4	–36.4	+0.9	–0.2	–3.1	+8.7	+34.4	–36.4
Seasonally adjusted and temperature corrected ³ (annual rates)												
1975 Jan-Oct	324.4	121.3	136.9	53.6	10.6	2.0	193.9	72.5	81.8	32.0	6.4	1.2
1976 Jan-Oct p	328.7	122.1	134.3	57.5	12.8	2.0	196.4	72.9	80.3	34.4	7.6	1.2
Per cent change	+1.3	+0.6	–1.8	+7.4	+19.9	–0.5	+1.3	+0.6	–1.8	+7.4	+19.9	–0.5
1975 Aug	311.6	118.9	130.0	49.9	10.4	2.4	186.2	71.1	77.7	29.8	6.2	1.4
Sept*	330.3	117.1	142.3	57.3	11.4	2.2	197.5	70.0	85.1	34.3	6.8	1.3
Oct	318.6	116.3	130.9	56.5	12.0	2.9	190.4	69.5	78.2	33.8	7.2	1.7
Average	320.9	117.4	135.0	54.7	11.3	2.5	191.8	70.2	80.7	32.7	6.7	1.5
1976 Aug	321.3	115.8	134.0	54.8	14.9	1.8	192.0	69.2	80.1	32.7	8.9	1.1
Sept*	336.1	117.3	139.2	62.4	16.1	1.1	200.9	70.1	83.2	37.3	9.6	0.7
Oct p	315.6	118.0	121.2	60.5	14.0	1.9	188.6	70.5	72.4	36.1	8.4	1.2
Average	325.3	117.1	132.0	59.5	15.1	1.6	194.4	70.0	78.9	35.5	9.0	1.0
Per cent change	+1.3	–0.3	–2.2	+8.7	+33.8	–36.0	+1.3	–0.3	–2.2	+8.7	+33.8	–36.0

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. Only coal and petroleum are temperature corrected.

Energy: Total inland consumption (primary fuel input basis)¹

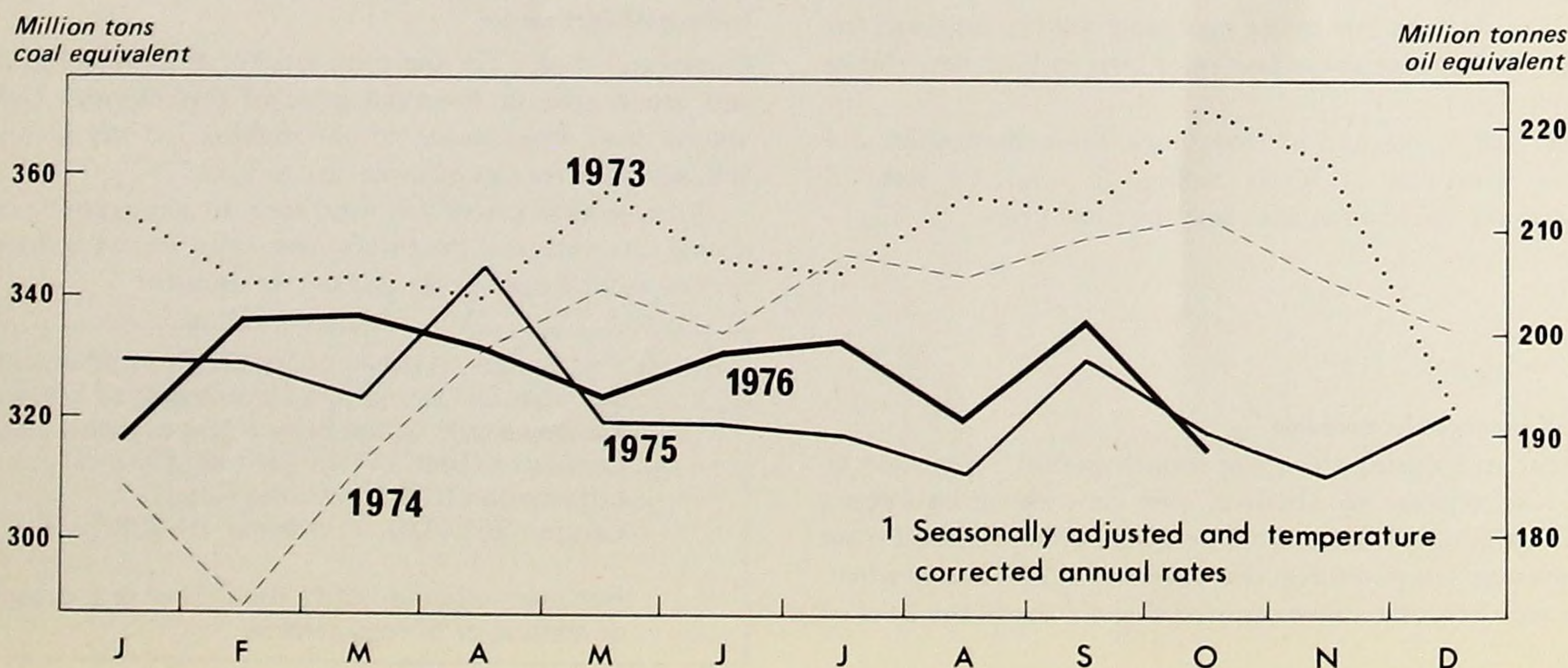


TABLE 2. Supply and use of fuels

Million therms

	1974	1975	Per cent change	1974			1975				1976p		Per ¹ cent change
				2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	
PRIMARY FUELS AND EQUIVALENTS:													
Production of primary fuels													
Coal	27,245	31,430	+15.4	7,797	7,024	8,355	8,482	7,904	6,602	8,442	7,941	7,672	-2.9
Petroleum ²	174	665	(+)	39	31	51	56	57	137	415	564	1,003	(+)
Natural gas	13,040	13,578	+4.1	2,844	2,279	3,967	4,193	2,980	2,191	4,214	4,772	3,065	+2.9
Primary electricity	3,279	2,982	-9.1	741	657	867	944	617	580	841	925	779	+26.3
Total	43,738	48,655	+11.2	11,421	9,991	13,240	13,675	11,558	9,510	13,912	14,202	12,519	+8.3
Arrivals. Petroleum ³	54,067	44,216	-18.2	14,398	12,300	13,394	11,378	11,200	10,521	11,117	10,967	10,924	-2.5
Other	1,171	1,616	+38.0	286	289	323	389	417	380	430	326	311	-25.4
Shipments	7,628	7,243	-5.0	2,007	2,230	2,051	1,730	1,638	1,993	1,882	1,724	2,044	+24.8
Bunkers	1,954	1,418	-27.4	528	499	450	375	345	354	344	372	346	+0.3
Stock change ⁴													
Solid fuels	+1,921	-2,576	. .	-402	-159	+104	+103	-1,085	-891	-703	+323	-859	. .
Crude petroleum	-959	+475	. .	-859	-113	+256	+425	-248	+220	+78	+353	-196	. .
Petroleum products	-1,081	+978	. .	-1,179	-345	+349	+754	+20	-503	+707	+649	-431	. .
Non energy use	5,233	4,106	-21.5	1,415	1,306	1,146	1,055	956	960	1,135	1,132	1,111	+16.2
Statistical difference ⁵	-203	-176	. .	+66	-41	-9	-168	+17	-13	-12	+109	-2	. .
Total primary ⁶ energy input	83,839	80,421	-4.1	19,781	17,887	24,010	23,396	18,940	15,917	22,168	23,701	18,765	-0.9
Conversion losses etc. ⁷	25,550	24,547	-3.9	5,913	5,446	7,592	6,995	5,693	4,954	6,905	6,911	5,637	-1.0
FINAL CONSUMPTION BY USER:													
Iron and steel industry													
Coal	99	72	-27.3	34	16	26	25	18	10	19	23	15	-16.7
Other solid fuel ⁸	2,681	2,374	-11.5	716	718	673	746	575	482	571	617	703	+22.3
Other coal-derived fuels ⁹	374	372	-0.5	102	92	104	107	97	76	92	98	109	+12.4
Gas ¹⁰	395	371	-6.1	102	86	97	101	91	79	100	108	112	+23.1
Electricity	345	344	-0.3	87	84	93	94	84	75	91	100	95	+13.1
Petroleum	1,648	1,357	-17.7	366	347	451	449	334	244	330	354	306	-8.4
Total	5,542	4,890	-11.8	1,407	1,343	1,444	1,522	1,199	966	1,203	1,300	1,340	+11.8
Other industries													
Coal	2,795	2,458	-12.1	802	733	746	660	613	528	657	547	564	-8.0
Other solid fuel ⁸	193	164	-15.0	42	53	51	47	47	40	30	38	23	-51.1
Other coal-derived fuels ⁹	63	78	+23.8	18	18	17	17	23	22	16	18	27	+17.4
Gas ¹⁰	4,692	4,701	+0.2	1,148	1,041	1,273	1,295	1,091	1,007	1,308	1,457	1,236	+13.3
Electricity	2,247	2,234	-0.6	573	553	618	589	542	510	593	619	563	+3.9
Petroleum	8,264	7,426	-10.1	1,879	1,567	2,367	2,140	1,770	1,299	2,217	2,268	1,711	-3.3
Total	18,254	17,061	-6.5	4,462	3,965	5,072	4,748	4,086	3,406	4,821	4,947	4,124	+0.9
Transport sector													
Coal	24	19	-20.8	5	4	8	6	3	3	7	7	4	+33.3
Electricity	92	99	+7.6	23	23	25	26	25	23	25	27	24	-4.0
Petroleum	12,295	12,143	-1.2	3,126	3,289	3,136	2,771	3,104	3,225	3,043	2,894	3,201	+3.1
Total	12,411	12,261	-1.2	3,154	3,316	3,169	2,803	3,132	3,251	3,075	2,928	3,229	+3.1
Domestic sector													
Coal	3,957	3,381	-14.6	1,070	952	1,160	1,013	903	699	766	932	764	-15.4
Other solid fuel ⁸	1,102	962	-12.7	290	282	297	270	231	260	201	284	202	-12.6
Gas ¹⁰	5,384	5,891	+9.4	1,011	696	1,698	2,329	1,119	615	1,828	2,403	1,055	-5.7
Electricity	3,161	3,035	-4.0	674	536	915	1,037	678	484	836	987	596	-12.0
Petroleum	1,482	1,434	-3.2	279	188	501	473	306	194	461	518	268	-12.4
Total	15,086	14,703	-2.5	3,324	2,654	4,571	5,122	3,237	2,252	4,092	5,124	2,885	-10.9
Other final users ¹¹													
Coal	669	490	-26.8	142	125	213	129	123	78	160	172	112	-8.9
Other solid fuel ⁸	276	219	-20.7	72	65	65	64	49	63	43	55	47	-4.1
Gas ¹⁰	1,269	1,347	+6.1	276	173	387	472	310	171	394	570	319	+2.9
Electricity	1,447	1,548	+7.0	323	307	455	460	347	302	439	479	350	+0.9
Petroleum	3,335	3,355	+0.6	708	493	1,042	1,081	764	474	1,036	1,215	722	-5.5
Total	6,996	6,959	-0.5	1,521	1,163	2,162	2,206	1,593	1,088	2,072	2,491	1,550	-2.7
Total final users	58,289	55,874	-4.1	13,868	12,441	16,418	16,401	13,247	10,963	15,263	16,790	13,128	-0.9
FINAL CONSUMPTION BY FUEL:													
Coal	7,544	6,420	-14.9	2,053	1,830	2,153	1,833	1,660	1,318	1,609	1,681	1,459	-12.1
Other solid fuel ⁸	4,252	3,719	-12.5	1,120	1,118	1,086	1,127	902	845	845	994	975	+8.1
Other coal-derived fuels ⁹	437	450	+3.0	120	110	121	124	120	98	108	116	136	+13.3
Gas ¹⁰	11,740	12,310	+4.9	2,537	1,996	3,455	4,197	2,611	1,872	3,630	4,538	2,722	+4.3
Electricity	7,292	7,260	-0.4	1,680	1,503	2,106	2,206	1,676	1,394	1,984	2,212	1,628	-2.9
Petroleum	27,024	25,715	-4.8	6,358	5,884	7,497	6,914	6,278	5,436	7,087	7,249	6,208	-1.1
Total all fuels	58,289	55,874	-4.1	13,868	12,441	16,418	16,401	13,247	10,963	15,263	16,790	13,128	-0.9

1. Per cent change on the corresponding period of the previous year. 2. Crude petroleum and natural gas liquids. 3. Crude petroleum, process oils and petroleum products. 4. Stock fall (+) stock rise (-). 5. Supply greater than recorded demand (-). 6. 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. 7. Losses in conversion and distribution and used by fuel industries. 8. Coke and other manufactured solid fuels. 9. Coke oven gas, creosote/pitch mixtures and other liquid fuels derived from coal. 10. Natural gas supplied direct, and town gas. 11. 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	9,085	+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
Per cent change	+17.3	+16.5	+17.4	+12.8	+72.5	+43.3	+17.0	+16.9	(-)
1975 Jan-Nov	117,001	114,422	104,485	9,273	+2,579	4,574	1,995	10,671	324
1976 Jan-Nov p	110,748	109,335	97,259	10,649	+1,413	2,677	1,264	11,578	1,101
Per cent change	-5.3	-4.4	-6.9	+14.8	-45.2	-41.5	-36.6	+8.5	(+)
1975 Sept*	11,794	11,483	10,423	1,011	+311	451	140	1,155	37
Oct	11,124	10,836	9,839	850	+288	417	129	25	19
Nov	11,382	11,080	10,047	903	+302	425	123	-	31
Total	34,300	33,399	30,309	2,764	+901	1,293	392	1,180	87
1976 Sept*	10,844	10,900	9,495	1,257	-56	92	148	1,337	325
Oct	9,916	9,849	8,954	846	+67	197	130	34	137
Nov p	10,629	10,546	9,438	961	+83	216	133	3	89
Total	31,389	31,295	27,887	3,064	+94	505	411	1,374	551
Per cent change	-8.5	-6.3	-8.0	+10.9	-89.6	-60.9	+4.8	+16.4	(+)

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
Per cent change	+3.7	-1.5	+11.3	+3.4	-91.4	+8.4	-12.6	-16.9	-0.9	-22.2
1975 Jan-Nov	107,301	1,085	64,819	17,074	8	3,624	8,610	8,958	1,476	1,647
1976 Jan-Nov p	107,404	986	67,006	17,279	7	3,096	7,753	8,378	1,166	1,733
Per cent change	+0.1	-9.1	+3.4	+1.2	-12.5	-14.6	-10.0	-6.5	-21.0	+5.2
1975 Sept*	10,313	101	6,048	1,642	-	429	857	961	130	145
Oct	9,487	91	5,884	1,367	1	339	811	689	135	170
Nov	9,994	100	6,445	1,383	-	317	813	619	130	187
Total	29,794	292	18,377	4,392	1	1,085	2,481	2,269	395	502
1976 Sept*	10,305	82	6,117	1,869	-	305	799	862	129	142
Oct	9,333	86	5,772	1,461	1	235	785	725	106	162
Nov p	10,491	98	6,785	1,547	1	244	837	686	116	177
Total	30,129	266	18,674	4,877	2	784	2,421	2,273	351	481
Per cent change	+1.1	-8.9	+1.6	+11.0	(+)	-27.7	-2.4	+0.2	-11.1	-4.2

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
1970	18,729	11,627	9,575	1,434	276	342	7,102	5,266	1,836
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
1975 Sept	28,376	20,191	18,058	1,894	1	238	8,185	6,542	1,643
Oct	29,971	20,730	18,359	2,135	1	235	9,241	7,555	1,686
Nov	31,310	21,221	18,609	2,331	1	280	10,089	8,358	1,731
1976 Sept	33,810	23,277	20,785	2,251	1	240	10,533	8,916	1,617
Oct	34,360	23,751	21,185	2,365	1	200	10,609	9,135	1,474
Nov p	34,466	23,610	20,927	2,502	1	180	10,856	9,451	1,405
Absolute change:									
In latest month	+106	-141	-258	+137	-	-20	+247	+316	-69
On a year ago	+3,156	+2,389	+2,318	+171	-	-100	+767	+1,093	-326

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				Total	Voluntary	Involuntary	Overall	At the face
	Thousands					Number	Per cent			Cwt.
1970	283	221	25,109	41,581	19.8	4.5	15.3	44.10	141.80	
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	
1975 Sept*	248	196	1,589	2,043	16.5	3.9	12.6	42.85	147.92	
Oct	247	195	1,014	1,655	17.5	4.0	13.5	46.24	156.60	
Nov	246	195	1,112	1,700	16.9	4.0	12.9	46.35	157.14	
1976 Sept*	242	192	1,987	2,060	17.2	3.8	13.4	41.09	143.77	
Oct	242	192	1,451	1,884	17.9	3.9	14.0	43.29	149.36	
Nov p	241	191	1,538	1,806	17.8	4.1	13.7	44.94	155.60	

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
Per cent change	+4.5	+3.9	+35.0	(-)	-53.9	+2.8	-53.0	+10.3
1975 Jan-Nov	11,865	11,573	292	8	544	11,973	697	11,276
1976 Jan-Nov p	12,414	12,054	360	7	216	12,443	212	12,231
Per cent change	+4.6	+4.2	+23.3	-12.5	-60.3	+3.9	-69.6	+8.5
1975 Sept*	949	908	41	-	22	951	34	917
Oct	1,050	1,017	33	1	19	1,052	38	1,014
Nov	1,305	1,274	31	-	21	1,316	42	1,274
Total	3,304	3,199	105	1	62	3,319	114	3,205
1976 Sept*	979	946	33	-	14	991	10	981
Oct	997	980	17	1	15	1,003	11	992
Nov p	1,346	1,324	22	1	24	1,346	11	1,335
Total	3,322	3,250	72	2	53	3,340	32	3,308
Per cent change	+0.5	+1.6	-31.4	(+)	-14.5	+0.6	-71.9	+3.2

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
1970	5,780	60	244	1,172	3,542	762
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
Per cent change	+3.5	-12.9	-6.1	+0.2	+9.4	+6.1
1974 2nd quarter	2,742	221	102	1,132	1,011	276
3rd quarter	2,181	198	86	1,028	696	173
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	1,444	2,403	570
2nd quarter p	2,865	158	112	1,221	1,055	319
Per cent change	+2.4	-21.0	+23.1	+13.3	-5.7	+2.9

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

Electricity

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

	Primary 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			
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
Per cent change	-1.4	+11.3	-25.9	-12.7	-9.6	-9.4	+0.3	-9.8	+1.8	-0.3	+0.4	+0.2
1975 Jan-Oct	87.17	58.37	17.24	2.65	7.43	1.36	200.75	21.23	175.40	14.57	186.18	189.37
1976 Jan-Oct p	85.92	60.22	13.13	2.20	9.01	1.33	201.39	26.05	171.34	15.24	186.15	189.12
Per cent change	-1.4	+3.2	-23.9	-17.1	+21.3	-2.4	+0.3	+22.7	-2.3	+4.6	-0.0	-0.1
1975 Aug	5.89	3.93	1.05	0.27	0.55	0.08	13.51	1.58	11.67	1.09	12.42	12.70
Sept*	8.77	6.05	1.51	0.29	0.77	0.13	20.01	2.20	17.38	1.56	18.45	18.80
Oct	8.46	5.88	1.41	0.23	0.74	0.18	19.20	2.11	16.58	1.40	17.80	18.11
Total	23.12	15.86	3.97	0.79	2.06	0.39	52.72	5.89	45.63	4.05	48.67	49.61
1976 Aug	5.95	4.16	0.72	0.16	0.85	0.06	14.10	2.45	11.43	1.21	12.89	13.14
Sept*	8.77	6.12	1.25	0.20	1.15	0.05	20.58	3.31	17.02	1.66	18.92	19.24
Oct p	8.11	5.77	1.16	0.16	0.92	0.10	19.01	2.63	16.04	1.45	17.56	17.83
Total	22.83	16.05	3.13	0.52	2.92	0.21	53.69	8.39	44.49	4.32	49.37	50.21
Per cent change	-1.3	+1.2	-21.2	-34.2	+41.7	-46.2	+1.8	+42.4	-2.5	+6.7	+1.4	+1.2
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
Per cent change	-1.5	+10.3	-25.2	-12.7	-10.9	-25.0	+0.2	-11.1	+2.0	-3.6	+0.5	+0.4
1975 Jan-Oct	75.72	51.49	14.68	2.65	6.71	0.07	175.22	19.14	155.27	12.35	162.87	164.10
1976 Jan-Oct p	74.50	53.46	10.86	2.20	7.89	0.06	175.49	22.71	152.23	12.70	162.79	164.11
Per cent change	-1.6	+3.8	-26.1	-17.1	+17.8	-13.0	+0.2	+18.7	-2.0	+2.8	-0.1	+0.0
1975 Aug	5.15	3.48	0.87	0.27	0.52	—	11.87	1.48	10.35	0.91	10.96	11.07
Sept*	7.59	5.34	1.25	0.29	0.69	—	17.35	1.96	15.33	1.27	16.08	16.26
Oct	7.34	5.24	1.18	0.23	0.67	—	16.71	1.90	14.72	1.19	15.52	15.67
Total	20.08	14.06	3.30	0.79	1.88	—	45.93	5.34	40.40	3.37	42.56	43.00
1976 Aug	5.19	3.74	0.56	0.16	0.73	—	12.38	2.10	10.24	1.00	11.38	11.47
Sept*	7.61	5.42	1.02	0.20	0.97	—	17.90	2.78	15.08	1.35	16.55	16.77
Oct p	7.06	5.20	0.96	0.16	0.74	—	16.62	2.12	14.46	1.20	15.42	15.55
Total	19.86	14.36	2.54	0.52	2.44	—	46.90	7.00	39.78	3.55	43.35	43.79
Per cent change	-1.1	+2.1	-23.0	-34.2	+29.8	--	+2.1	+31.1	-1.5	+5.3	+1.9	+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 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
1970	197,751	12,004	67,573	77,038	41,136
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
Per cent change	-0.4	-1.1	-0.1	-4.0	+7.1
1974 2nd quarter	50,594	2,871	18,169	19,759	9,795
3rd quarter	45,295	2,727	17,522	15,707	9,339
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
Per cent change	-2.6	+12.1	+3.8	-12.0	+0.7

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						
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
Per cent change	(+)	-18.7	(+)	-19.3	-29.5	-19.0	+8.6	-12.6	-5.1	(+)	-27.6
1975 Jan-Oct	835	76,980	486	+75,428	1,066	76,599	1,171	9,651	11,636	-1,985	2,865
1976 Jan-Oct p	8,407	80,194	8,058	+71,459	677	74,482	3,023	8,819	12,734	-3,915	2,900
Per cent change	(+)	+4.2	(+)	-5.3	-36.5	-2.8	(+)	-8.6	+9.4	+97.3	+1.2
1975 Aug	118	7,433	117	+7,232	84	7,328	96	740	1,536	-796	290
Sept	109	7,545	60	+7,348	137	7,440	92	737	1,243	-506	303
Oct	246	7,423	56	+7,215	152	7,467	252	1,034	1,444	-410	263
Total	473	22,401	233	+21,795	373	22,235	440	2,511	4,223	-1,712	856
1976 Aug	1,080	7,882	974	+6,907	1	7,311	404	727	1,114	-387	340
Sept	1,249	7,557	1,196	+6,383	-22	6,964	581	559	1,624	-1,065	270
Oct p	1,637	8,796	1,630	+7,150	16	7,682	532	612	1,502	-890	242
Total	3,966	24,235	3,800	+20,440	-5	21,957	1,517	1,898	4,240	-2,342	852
Per cent change	(+)	+8.2	(+)	-6.2	(-)	-1.3	(+)	-24.4	+0.4	+36.9	-0.3

1. Calendar months. 2. Including natural gas liquids (condensates). 3. Mainly recycled products. 4. Foreign trade (excluding direct exports from the U.K. Continental Shelf) 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				
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
Per cent change	-15.9	-13.2	-25.6	-15.9	-9.7	-44.4	-38.5	-4.0	-11.5	-10.4	-15.6	-18.3	-21.6	-1.4
1975 Jan-Oct	78,306	5,016	746	72,544	1,209	122	3,189	11,758	3,453	1,827	19,389	27,521	977	1,783
1976 Jan-Oct p	80,369	5,262	890	74,217	1,281	134	3,679	12,635	3,572	1,879	20,123	26,463	1,082	1,621
Per cent change	+2.6	+4.9	+19.3	+2.3	+5.9	+9.9	+15.4	+7.5	+3.4	+2.8	+3.8	-3.8	+10.8	-9.1
1975 Aug	8,351	505	94	7,752	106	9	338	1,300	451	112	2,086	2,934	104	176
Sept	7,564	472	65	7,027	113	12	261	1,171	399	142	1,934	2,589	80	167
Oct	7,815	524	56	7,235	122	14	350	1,161	278	250	2,017	2,585	119	184
Total	23,730	1,501	215	22,014	341	35	949	3,632	1,128	504	6,037	8,108	303	527
1976 Aug	7,508	532	93	6,883	115	15	338	1,363	395	130	1,828	2,270	107	152
Sept	8,183	527	27	7,629	124	14	399	1,296	411	150	1,963	2,838	124	155
Oct p	8,658	524	112	8,022	134	11	413	1,352	410	192	2,067	3,020	129	141
Total	24,349	1,583	232	22,534	373	40	1,150	4,011	1,216	472	5,858	8,128	360	448
Per cent change	+2.6	+5.4	+7.9	+2.4	+9.3	+14.8	+21.2	+10.4	+7.7	-6.3	-3.0	+0.2	+18.6	-15.0

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					
1973	99,344	1,600	8,373	16,927	4,202	778	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
Per cent change	-11.6	-9.9	-33.6	-2.2	+3.9	-10.8	-3.5	-8.2	-1.9	-3.9	-17.4	-5.1	-6.7
1975 Jan-Oct	66,853	1,051	4,195	13,535	3,282	374	1,344	308	4,511	10,342	24,748	826	1,797
1976 Jan-Oct p	65,167	1,066	4,565	14,070	3,430	391	1,288	291	4,636	10,109	22,201	834	1,609
Per cent change	-2.5	+1.4	+8.8	+4.0	+4.5	+4.5	-4.2	-5.6	+2.8	-2.3	-10.3	+1.0	-10.5
1975 Aug	5,128	82	421	1,427	368	5	55	18	393	628	1,454	74	161
Sept	6,170	100	360	1,413	377	27	134	38	463	852	2,074	85	186
Oct	7,248	113	447	1,462	346	46	162	40	514	1,197	2,580	91	187
Total	18,546	295	1,228	4,302	1,091	78	351	96	1,370	2,677	6,108	250	534
1976 Aug	5,400	87	499	1,494	400	5	45	18	416	578	1,554	78	151
Sept	6,072	100	479	1,461	388	24	98	27	480	813	1,886	89	163
Oct p	6,566	109	474	1,473	340	36	146	29	502	1,022	2,151	88	142
Total	18,038	296	1,452	4,428	1,128	65	289	74	1,398	2,413	5,591	255	456
Per cent change	-2.7	+0.4	+18.3	+2.9	+3.3	-15.7	-17.7	-22.2	+2.1	-9.8	-8.5	+2.0	-14.6

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^{1, 2}

Thousand tonnes

	Total	Power ³ Stations	Gas Works	Iron and steel industry	Other Industries	Transport ⁴	Domestic	Other ⁵
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
Per cent change	-10.0	-22.6	-48.2	-17.7	-12.4	-1.2	-3.2	-0.1
1975 Jan-Sept	53,527	9,841	557	2,504	12,241	20,669	2,217	5,498
1976 Jan-Sept p	51,872	7,508	282	2,280	12,528	21,387	2,195	5,692
Per cent change	-3.1	-23.7	-49.4	-9.0	+2.3	+3.5	-1.0	+3.5
1975 July	4,965	801	34	174	970	2,526	111	349
Aug	4,456	586	34	182	862	2,364	102	326
Sept	5,506	938	36	239	1,184	2,431	226	452
Total	14,927	2,325	104	595	3,016	7,321	439	1,127
1976 July	4,947	658	16	212	1,017	2,574	133	337
Aug	4,609	593	16	206	930	2,482	88	294
Sept p	5,287	690	19	250	1,193	2,509	178	448
Total	14,843	1,941	51	668	3,140	7,565	399	1,079
Per cent change	-0.6	-16.5	(-)	+12.3	+4.1	+3.3	-9.1	-4.3

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 ¹		Power stations ²
	Million tonnes	Estimated days' supply ³	Million tonnes
1975 Sept	23.8	97	0.98
Oct	22.4	91	0.93
Nov	22.0	87	0.97
1976 Sept	21.8	86	0.98
Oct	21.8	84	0.98
Nov p	23.0	88	0.91

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

Prices of fuels used by Industry in Great Britain¹

	Delivered to large industrial consumers ²					Realised in new and renewed medium size contracts ³	
	Coal	Heavy Fuel Oil	Gas Oil	Gas	Electricity	Heavy Fuel Oil	Gas Oil
	£ per ton			Pence per therm	Pence per KWh	£ per ton	
1974 1st quarter	8.5	23.6	43.2	2.64	0.855	34.7	52.8
2nd quarter	9.1	33.4	50.6	2.78	0.854	34.2	54.3
3rd quarter	9.8	32.8	51.8	3.03	0.924	33.8	53.1
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	45.7	70.8
2nd quarter	17.8	41.5	62.0	5.72	1.447	44.4	69.5
3rd quarter p	18.2	43.1	61.6	6.81	1.457	45.4	70.6

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.