

DEPARTMENT OF ENERGY
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TRENDS

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Higher energy use in cold second quarter

Total Energy

Final consumption rises by 5½ per cent

Total inland energy consumption on a primary fuel input basis during the three months June to August was 4.5 per cent higher than in the corresponding period of the previous year. About two-thirds of the increase was accounted for by natural gas consumption which was nearly 22 per cent higher than a year ago. The period as a whole was substantially cooler than last year and after seasonal and temperature effects are taken into account the increase in overall consumption is nearly halved to 2.3 per cent with coal consumption on this basis lower by 3.7 per cent and petroleum also falling slightly below last year's level.

Provisional figures of the supply and use of fuels during the second quarter of 1977 indicate that total indigenous production of primary fuels measured on a thermal basis was nearly 30 per cent higher than a year ago. North Sea crude oil production accounted for well over three-quarters of the increase and while natural gas and primary electricity rose by 16.4 and 11.6 per cent respectively, there was a small decline in coal production.

Energy consumption by final users on a heat supplied basis during the second quarter was 5.5 per cent higher in total than in the corresponding quarter of 1976. Comparisons between the two periods are however more than usually difficult to make because weather conditions were very different: the second quarter of 1977 was much colder than in 1976, with poor weather effectively extending the heating season into late spring and early summer. Consumption in the domestic sector which is particularly sensitive to weather conditions was 14.4 per cent higher in total than a year previously.

Consumption in the iron and steel industry fell by 12 per cent, a reflection of the low level of activity in that sector, but consumption by other industries rose by 5.8 per cent, over half of the increase comprising natural gas, which rose by 11.1 per cent. Coal use fell by 6 per cent but demand for the other principal fuels used by industry, electricity and petroleum, was higher by 7.1 per cent and 5.2 per cent respectively.

Coal

Deep-mined output lower

Total coal production during the first nine months of the year was 2 per cent lower than in the corresponding period of 1976. Deep-mined output declined by 2¼ million tons but this was partly offset by an improvement of 0.8 million tons in opencast production. Total inland consumption during this period rose by 3.1 per cent with power stations use rising by 7 per cent and disposals to industry by 3.1 per cent. Disposals to the domestic market in total remained very close to last year's level but consumption at coke ovens fell by 6.4 per cent.

Total coal stocks rose by ¼ million tons during September and at 29.4 million tons were 4.4 million tons lower than at the same time a year ago. Power station stocks, which account for two-thirds of the total, were down by 2.4 million tons on last year's level.

Gas

Big rise in domestic sales

Total gas sent out during the three month period July to September was 13.6 per cent higher than in the comparable period of last year, much of the increase being attributable to the substantially cooler weather this year. Sales of gas during the second quarter of 1977 to the domestic and commercial sectors, which rose by nearly 30 per cent and 20 per cent respectively, were similarly influenced by the weather but higher sales were also recorded to the iron and steel industry and to other industries, with increases of over 11 per cent in each sector.

Electricity

High sales

Sales of electricity during the second quarter of 1977 were 7.8 per cent higher in total than during the comparable period a year ago. Sales to domestic and commercial consumers rose by 9 per cent and 10.9 per cent respectively, increases that are substantially influenced by the significant differences in weather conditions prevailing. Sales to the domestic sector were however still about 6 per cent lower than in the second quarter of 1975 and also lower than in the corresponding quarters of the three preceding years. Sales to industries other than iron and steel rose by 6.4 per cent a continuation of the steady sales growth pattern to this sector in the last two years.

Total electricity supplied during July and August was 4.3 per cent and 12.0 per cent higher respectively than in the corresponding months of last year, thus continuing the buoyant trend observed in the second quarter sales figures.

Petroleum

Little change in delivery level

Output of refined products during the three month period June to August was 2.6 per cent lower than in the corresponding period of 1976 and of the principal products, only naphtha and aviation turbine fuel were higher than a year ago with rises of 19.6 and 12.9 per cent respectively.

Total inland deliveries of products during the period rose by 1.4 per cent, slightly more than the overall increase in deliveries in the year to date. Deliveries of aviation turbine fuel rose by 5.2 per cent and gas/diesel oil by 5.9 per cent, the latter product enjoying the greatest comparative increase in demand of any product in the year to date.

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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. These comparisons can be affected by calendar differences, especially during periods of rapid change. 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 ³ gas	Nuclear electricity	Hydro-electricity	Total	Coal ¹	Petroleum ²	Natural ³ gas	Nuclear electricity	Hydro-electricity
	Million tons of coal or coal equivalent						Million metric tonnes of oil or oil equivalent					
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	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-Aug	207.3	77.3	84.5	36.3	7.9	1.3	123.9	46.2	50.5	21.7	4.7	0.8
1977 Jan-Aug p	214.8	79.9	84.9	39.6	9.2	1.2	128.3	47.7	50.7	23.7	5.5	0.7
Per cent change	+3.6	+3.4	+0.5	+9.1	+16.8	–12.6	+3.6	+3.4	+0.5	+9.1	+16.8	–12.6
1976 Jun*	25.5	10.1	11.4	2.9	1.0	0.1	15.2	6.0	6.8	1.7	0.6	0.1
Jul	19.6	7.7	8.4	2.6	0.8	0.1	11.7	4.6	5.0	1.6	0.5	—
Aug	18.5	6.8	7.9	2.7	1.0	0.1	11.1	4.1	4.7	1.6	0.6	0.1
Total	63.6	24.6	27.7	8.2	2.8	0.3	38.0	14.7	16.5	4.9	1.7	0.2
1977 Jun*	26.5	10.0	11.5	3.7	1.2	0.1	15.9	6.0	6.9	2.2	0.7	0.1
Jul	20.1	7.9	8.1	3.1	0.9	0.1	12.0	4.7	4.9	1.9	0.5	—
Aug p	19.8	7.1	8.4	3.2	1.0	0.1	11.8	4.2	5.0	1.9	0.6	0.1
Total	66.4	25.0	28.0	10.0	3.1	0.3	39.7	14.9	16.8	6.0	1.8	0.2
Per cent change	+4.5	+1.6	+1.3	+21.7	+12.7	–10.2	+4.5	+1.6	+1.3	+21.7	+12.7	–10.2

Seasonally adjusted and temperature corrected⁴ (annual rates).

1976 Jan-Aug	327.3	122.5	134.6	56.0	12.1	2.1	195.6	73.2	80.5	33.4	7.2	1.3
1977 Jan-Aug p	334.6	122.5	134.3	61.6	14.2	2.0	200.0	73.2	80.3	36.8	8.5	1.2
Per cent change	+2.2	—	–0.2	+9.9	+17.6	–3.0	+2.2	—	–0.2	+9.9	+17.6	–3.0
1976 Jun*	328.2	122.9	139.4	51.0	12.6	2.3	196.1	73.4	83.3	30.5	7.5	1.4
Jul	329.8	127.8	136.6	50.4	13.3	1.7	197.1	76.4	81.6	30.2	7.9	1.0
Aug	319.1	116.8	133.5	52.6	14.5	1.7	190.7	69.8	79.8	31.4	8.6	1.1
Average	325.8	122.5	136.7	51.3	13.4	1.9	194.8	73.2	81.7	30.7	8.0	1.2
1977 Jun*	334.6	114.2	137.9	65.0	15.4	2.1	199.9	68.2	82.4	38.8	9.2	1.3
Jul	328.6	122.9	130.1	59.7	14.2	1.7	196.4	73.5	77.7	35.7	8.5	1.0
Aug p	336.9	117.7	139.5	61.8	16.3	1.6	201.3	70.4	83.4	36.9	9.7	0.9
Average	333.5	118.0	136.0	62.4	15.3	1.8	199.3	70.5	81.3	37.3	9.1	1.1
Per cent change	+2.3	–3.7	–0.5	+21.6	+14.3	–6.6	+2.3	–3.7	–0.5	+21.6	+14.3	–6.6

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

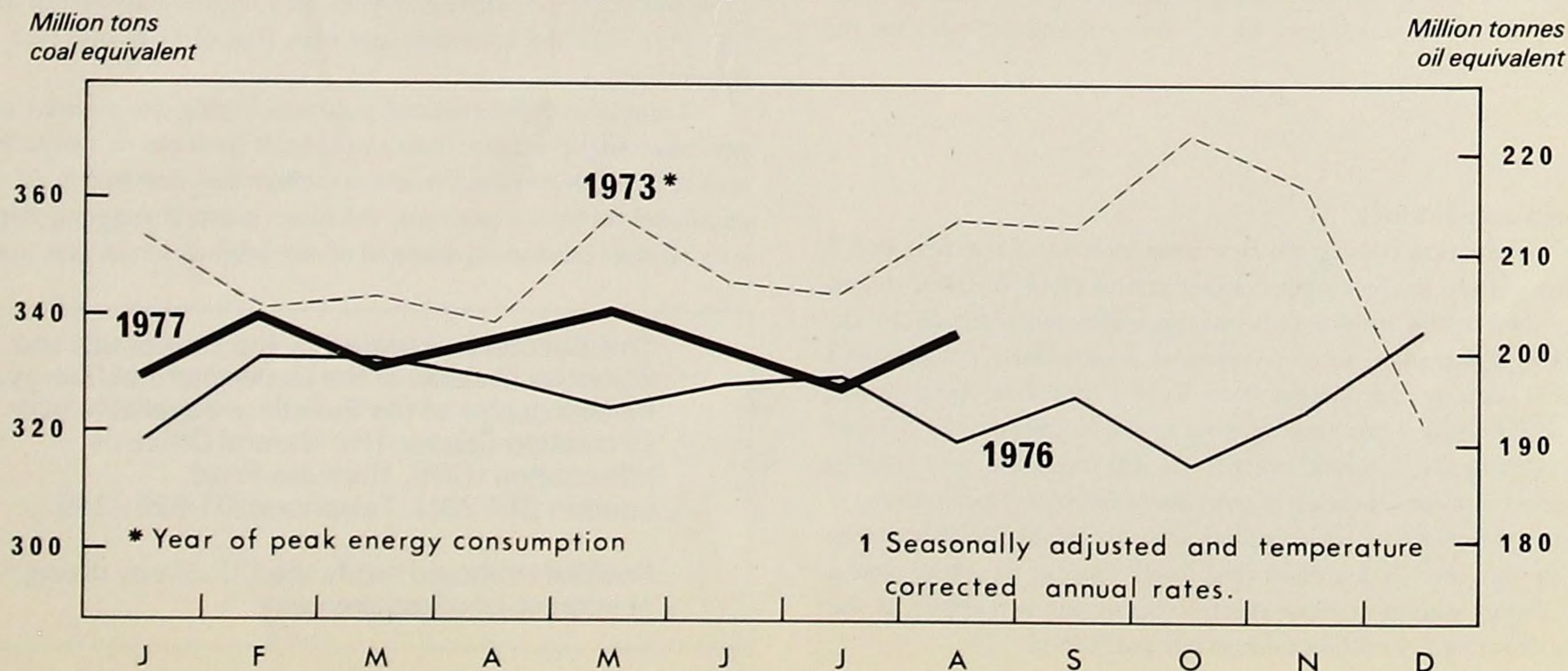


TABLE 2. Supply and use of fuels

Million therms

	1975	1976	Per cent change	1975			1976				1977 p		Per 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	31,430	30,166	− 4.0	7,904	6,602	8,442	8,006	7,635	6,378	8,147	7,567	7,538	− 1.3
Petroleum ²	665	5,206	(+)	57	137	415	574	1,020	1,335	2,277	3,295	4,218	(+)
Natural gas ³	13,578	14,379	+ 5.9	2,980	2,191	4,214	4,727	2,962	2,173	4,517	4,910	3,448	+ 16.4
Primary electricity	2,982	3,411	+ 14.4	617	580	841	926	786	770	929	1,070	877	+ 11.6
Total	48,655	53,162	+ 9.3	11,558	9,510	13,912	14,233	12,403	10,656	15,870	16,842	16,081	+ 29.7
Arrivals. Petroleum ⁴	44,216	43,174	− 2.4	11,200	10,521	11,117	10,992	10,949	10,160	11,073	9,613	9,114	− 16.8
Other	1,616	1,183	− 26.8	417	380	430	351	336	270	226	193	197	− 41.4
Shipments	7,243	9,176	+ 26.7	1,638	1,993	1,882	1,745	2,068	2,507	2,856	2,973	3,649	+ 76.5
Bunkers	1,418	1,468	+ 3.5	345	354	344	371	346	381	370	316	303	− 12.4
Stock change ⁵													
Solid fuels	− 2,576	− 634	..	− 1,085	− 891	− 703	+ 312	− 820	− 388	+ 262	+ 1,195	− 336	..
Crude petroleum	+ 475	− 378	..	− 248	+ 220	+ 78	+ 354	− 196	− 25	− 511	+ 159	− 231	..
Petroleum products	+ 978	+ 240	..	+ 20	− 503	+ 707	+ 648	− 431	− 367	+ 390	+ 560	− 222	..
Non-energy use	4,106	4,448	+ 8.3	956	960	1,135	1,138	1,111	1,159	1,040	929	1,066	− 4.1
Statistical difference ⁶	− 176	+ 54	..	+ 17	− 13	− 12	+ 58	− 23	− 2	+ 21	− 210	+ 72	...
Total primary ⁷ energy input	80,421	81,709	+ 1.6	18,940	15,917	22,168	23,694	18,693	16,257	23,065	24,134	19,657	+ 5.2
Conversion losses etc. ⁸	24,545	24,380	− 0.7	5,693	4,954	6,905	6,913	5,596	4,905	6,966	7,260	5,846	+ 4.5
FINAL CONSUMPTION BY USER:													
Iron and steel industry													
Coal	72	66	− 8.3	18	10	19	23	14	9	20	23	15	+ 7.1
Other solid fuel ⁹	2,374	2,723	+ 14.7	575	482	571	631	719	670	703	655	584	− 18.8
Other coal-derived fuels ¹⁰	372	401	+ 7.8	97	76	92	98	109	97	97	95	90	− 17.4
Gas ¹¹	371	438	+ 18.1	91	79	100	108	112	99	119	128	125	+ 11.6
Electricity	344	395	+ 14.8	84	75	91	100	96	90	109	102	94	− 2.1
Petroleum	1,357	1,279	− 5.7	334	244	330	354	306	273	346	351	285	− 6.9
Total	4,890	5,302	+ 8.4	1,199	966	1,203	1,314	1,356	1,238	1,394	1,354	1,193	− 12.0
Other industries													
Coal	2,458	2,277	− 7.4	613	528	657	547	564	470	696	617	530	− 6.0
Other solid fuel ⁹	164	126	− 23.2	47	40	30	38	24	27	37	39	39	+ 62.5
Other coal-derived fuels ¹⁰	78	76	− 2.6	23	22	16	13	23	25	15	17	17	− 26.1
Gas ¹¹	4,701	5,241	+ 11.5	1,091	1,007	1,308	1,456	1,236	1,083	1,466	1,431	1,373	+ 11.1
Electricity	2,228	2,364	+ 6.1	540	508	592	617	563	546	638	646	603	+ 7.1
Petroleum	7,434	7,441	+ 0.1	1,770	1,300	2,224	2,255	1,696	1,400	2,090	2,254	1,784	+ 5.2
Total	17,063	17,525	+ 2.7	4,084	3,405	4,827	4,926	4,106	3,551	4,942	5,004	4,346	+ 5.8
Transport sector													
Coal and other solid fuel	19	21	+ 10.5	3	3	7	7	4	2	8	6	4	−
Electricity	99	98	+ 1.0	25	23	25	26	24	22	26	27	26	+ 8.3
Petroleum	12,143	12,597	+ 3.7	3,104	3,225	3,043	2,889	3,198	3,333	3,177	2,988	3,224	+ 0.8
Total	12,261	12,716	+ 3.7	3,132	3,251	3,075	2,922	3,226	3,357	3,211	3,021	3,254	+ 0.9
Domestic sector													
Coal	3,381	3,143	− 7.0	903	699	766	932	765	634	812	851	774	+ 1.2
Other solid fuel ⁹	962	869	− 9.7	231	260	201	277	196	208	188	231	208	+ 6.1
Gas ¹¹	5,891	6,194	+ 5.1	1,119	615	1,828	2,403	1,055	686	2,050	2,412	1,370	+ 29.9
Electricity	3,045	2,905	− 4.6	681	485	838	993	585	464	863	972	638	+ 9.1
Petroleum	1,434	1,435	− 0.1	306	194	461	519	268	176	472	514	291	+ 8.6
Total	14,713	14,546	− 1.1	3,240	2,253	4,094	5,124	2,869	2,168	4,385	4,980	3,281	+ 14.4
Other final users ¹²													
Coal	490	516	+ 5.3	123	78	160	172	113	73	158	165	117	+ 3.5
Other solid fuel ⁹	219	166	− 24.2	49	63	43	51	44	37	34	52	39	− 11.4
Gas ¹¹	1,347	1,521	+ 12.9	310	171	394	571	317	169	464	561	380	+ 19.9
Electricity	1,546	1,596	+ 3.2	347	300	437	478	345	308	405	497	381	+ 10.4
Petroleum	3,347	3,441	+ 2.8	764	474	1,028	1,223	721	451	1,046	1,240	820	+ 13.7
Total	6,949	7,240	+ 4.2	1,593	1,086	2,062	2,495	1,540	1,038	2,167	2,515	1,737	+ 12.8
Total final users	55,876	57,329	+ 2.6	13,248	10,961	15,261	16,781	13,097	11,352	16,099	16,874	13,811	+ 5.5
FINAL CONSUMPTION BY FUEL:													
Coal	6,420	6,022	− 6.2	1,660	1,318	1,609	1,681	1,460	1,188	1,693	1,662	1,440	− 1.4
Other solid fuel ⁹	3,719	3,885	+ 4.5	902	845	845	997	983	942	963	977	870	− 11.5
Other coal-derived fuels ¹⁰	450	477	+ 6.0	120	98	108	111	132	122	112	112	107	− 18.9
Gas ¹¹	12,310	13,394	+ 8.8	2,611	1,872	3,630	4,538	2,720	2,037	4,099	4,532	3,248	+ 19.4
Electricity	7,262	7,358	+ 1.3	1,677	1,391	1,983	2,214	1,613	1,430	2,101	2,244	1,742	+ 8.0
Petroleum	25,715	26,193	+ 1.9	6,278	5,437	7,086	7,240	6,189	5,633	7,131	7,347	6,404	+ 3.5
Total all fuels	55,876	57,329	+ 2.6	13,248	10,961	15,261	16,781	13,097	11,352	16,099	16,874	13,811	+ 5.5

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 1977 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	9,085	+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	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-Sept	90,201	88,938	78,867	8,840	+1,263	2,265	1,002	11,541	880
1977 Jan-Sept p	87,395	87,174	76,591	9,668	+221	1,735	1,514	12,099	585
Per cent change	-3.1	-2.0	-2.9	+9.4	-82.5	-23.4	+51.1	+4.8	-33.5
1976 Jul	8,515	8,413	7,394	901	+102	276	174	1,585	35
Aug	6,619	6,452	5,385	919	+167	236	69	3,438	153
Sept*	10,842	10,898	9,495	1,255	-56	92	148	1,336	313
Total	25,976	25,763	22,274	3,075	+213	604	391	6,359	501
1977 Jul	8,752	8,657	7,309	1,151	+95	290	195	1,567	52
Aug	6,690	6,549	5,383	989	+141	271	130	3,257	25
Sept p*	10,856	10,736	9,209	1,478	+120	310	190	1,475	81
Total	26,298	25,942	21,901	3,618	+356	871	515	6,300	158
Per cent change	+1.2	+0.7	-1.7	+17.7	+67.1	+44.2	+31.7	-0.9	-68.5

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 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	131,270	1,359	75,628	21,543	504	3,550	11,890	12,466	1,790	2,540
1974	116,025	1,236	65,967	18,169	105	3,728	10,902	11,793	1,660	2,465
1975	120,286	1,218	73,391	18,783	9	3,999	9,532	9,759	1,677	1,918
1976	121,651	1,114	76,589	19,095	8	3,351	8,828	9,301	1,352	2,013
Per cent change	+1.1	-8.5	+4.4	+1.7	-11.1	-16.2	-7.4	-4.7	-19.4	+5.0
1976 Jan-Sept	87,563	802	54,442	14,271	5	2,617	6,131	6,910	991	1,394
1977 Jan-Sept p	90,274	803	58,251	13,356	6	2,227	6,322	6,860	1,037	1,412
Per cent change	+3.1	+0.1	+7.0	-6.4	+2.0	-14.9	+3.1	-0.7	+4.6	+1.3
1976 Jul	7,735	68	4,579	1,474	-	249	619	560	117	69
Aug	6,819	48	4,156	1,470	-	208	386	414	64	73
Sept *	10,304	82	6,117	1,868	1	305	799	854	136	142
Total	24,858	198	14,852	4,812	1	762	1,804	1,828	317	284
1977 Jul	7,937	77	4,815	1,350	-	229	604	656	127	79
Aug	7,104	49	4,449	1,312	-	199	473	463	82	77
Sept p*	10,417	77	6,468	1,585	1	303	778	897	156	152
Total	25,458	203	15,732	4,247	1	731	1,855	2,016	365	308
Per cent change	+2.4	+2.5	+5.9	-11.7	-	-4.1	+2.8	+10.3	+15.1	+8.5

1. Disposals by collieries and opencast sites. 2. Public supply and railway and transport power stations. 3. Low temperature carbonisation and 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 and 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	32,592	22,102	19,288	2,642	2	170	10,490	9,148	1,342
1976 Jul	33,254	22,230	19,450	2,539	1	240	11,024	9,475	1,549
Aug	33,185	22,462	19,955	2,266	1	240	10,723	9,105	1,618
Sept	33,810	23,277	20,785	2,250	2	240	10,533	8,916	1,617
1977 Jul	29,480	20,514	18,045	2,268	1	200	8,966	7,480	1,486
Aug	29,173	20,410	18,248	1,981	1	180	8,763	7,227	1,536
Sept p	29,419	20,483	18,422	1,880	1	180	8,936	7,348	1,588
Absolute change:									
In latest month	+246	+73	+174	-101	-	-	+173	+121	+52
On a year ago	-4,391	-2,794	-2,363	-370	-	-60	-1,597	-1,568	-29

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.					
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	241	192	17,061	21,239	17.4	3.7	13.7	43.81	152.59
1976 Jul	242	192	999	1,777	16.3	3.4	12.9	40.62	144.14
Aug	242	192	1,807	1,347	14.9	2.9	12.0	39.12	148.98
Sept*	242	192	1,987	2,060	17.2	3.8	13.4	41.09	143.77
1977 Jul	244	194	2,140	1,899	16.7	3.4	13.3	40.27	146.10
Aug	238	188	2,409	8,243	15.5	3.1	12.4	38.46	149.27
Sept p*	239	189	3,206	2,330	17.0	3.9	13.1	40.35	144.44

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-Sept	10,071	9,750	321	5	178	10,095	190	9,905
1977 Jan-Sept p	10,917	10,714	203	6	105	10,887	64	10,823
Per cent change	+8.4	+9.9	−36.8	+3.7	−41.0	+7.8	−66.3	+9.3
1976 Jul	596	571	25	—	9	605	6	599
Aug	597	560	37	—	10	604	6	598
Sept*	979	946	33	1	14	991	10	981
Total	2,172	2,077	95	1	33	2,200	22	2,178
1977 Jul	700	674	26	—	5	693	3	690
Aug	723	701	22	—	5	718	3	715
Sept p*	1,098	1,079	19	1	9	1,089	3	1,086
Total	2,521	2,454	67	1	19	2,500	9	2,491
Per cent change	+16.1	+18.2	−29.5	—	−42.4	+13.6	−59.1	+14.4

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

	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	13,997	662	438	5,182	6,194	1,521
Per cent change	+6.8	-22.8	+18.1	+11.6	+5.1	+12.9
1975 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	1,828	394
1976 1st quarter	4,765	240	108	1,443	2,403	571
2nd quarter	2,865	160	112	1,221	1,055	317
3rd quarter	2,149	129	99	1,066	686	169
4th quarter	4,218	133	119	1,452	2,050	464
1977 1st quarter p	4,633	118	128	1,414	2,412	561
2nd quarter p	3,316	82	125	1,359	1,370	380
Per cent change	+15.7	-48.7	+11.6	+11.3	+29.9	+19.9

1. Public supply and transport power stations. 2. Public administration and 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												
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	237.30
1976	108.76	76.59	16.78	2.51	11.22	1.61	254.92	32.42	217.50	19.16	235.76	239.47
Per cent change	-0.2	+4.4	-20.6	-25.4	+20.8	-2.0	+1.5	+22.2	-1.0	+6.3	+1.1	+0.9
1976 Jan-Aug	69.03	48.33	10.72	1.84	6.94	1.17	161.81	20.10	138.27	12.15	149.66	152.05
1977 Jan-Aug p	72.23	51.32	10.56	1.00	8.35	0.96	169.75	23.94	142.65	12.75	157.00	159.18
Per cent change	+4.6	+6.2	-1.5	-45.7	+20.3	-17.9	+4.9	+19.1	+3.2	+4.9	+4.9	+4.7
1976 Jun*	8.30	6.06	1.07	0.18	0.87	0.12	19.42	2.55	16.52	1.50	17.92	18.17
Jul	6.38	4.58	0.87	0.13	0.74	0.06	14.81	2.12	12.44	1.23	13.58	13.78
Aug	5.95	4.15	0.73	0.16	0.85	0.06	14.10	2.45	11.43	1.21	12.89	13.14
Total	20.63	14.79	2.67	0.47	2.46	0.24	48.33	7.12	40.39	3.94	44.39	45.09
1977 Jun*	8.79	6.16	1.33	0.16	1.05	0.08	20.64	3.01	17.29	1.63	19.01	19.30
Jul	6.54	4.62	0.95	0.16	0.77	0.04	15.38	2.23	12.97	1.22	14.16	14.40
Aug p	6.64	4.67	0.75	0.22	0.95	0.05	15.72	2.75	12.76	1.28	14.44	14.73
Total	21.97	15.45	3.03	0.54	2.77	0.17	51.74	7.99	43.02	4.13	47.61	48.43
Per cent change	+6.5	+4.5	+13.5	+14.9	+12.6	-29.2	+7.1	+12.2	+6.5	+4.8	+7.3	+7.4
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	15.89	202.96	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	94.29	67.97	13.84	2.51	9.84	0.08	222.12	28.30	193.11	15.94	206.18	207.62
Per cent change	-0.4	+5.1	-22.9	-25.4	+17.2	-11.4	+1.3	+18.2	-0.6	+4.0	+1.1	+0.6
1976 Jan-Aug	59.83	42.83	8.89	1.84	6.19	0.05	140.96	17.82	122.70	10.14	130.82	131.79
1977 Jan-Aug p	62.61	45.86	8.73	1.00	6.92	0.06	147.57	19.82	127.16	10.56	137.01	138.24
Per cent change	+4.7	+7.1	-1.8	-45.7	+11.8	+20.0	+4.7	+11.2	+3.6	+4.1	+4.7	+4.9
1976 Jun*	7.20	5.42	0.87	0.18	0.73	—	16.91	2.13	14.74	1.25	15.66	15.73
Jul	5.63	4.15	0.71	0.13	0.64	—	13.09	1.85	11.21	1.00	12.09	12.16
Aug	5.19	3.75	0.56	0.16	0.72	—	12.38	2.10	10.24	1.00	11.38	11.47
Total	18.02	13.32	2.14	0.47	2.09	—	42.38	6.08	36.19	3.25	39.13	39.36
1977 Jun*	7.66	5.57	1.13	0.16	0.79	—	17.99	2.28	15.65	1.31	16.68	16.85
Jul	5.78	4.20	0.81	0.16	0.61	—	13.56	1.75	11.80	0.99	12.57	12.74
Aug p	5.83	4.21	0.60	0.22	0.80	—	13.82	2.31	11.48	1.06	12.76	12.89
Total	19.27	13.98	2.54	0.54	2.20	—	45.37	6.34	38.93	3.36	42.01	42.48
Per cent change	+6.9	+5.0	+18.7	+14.9	+5.3	(+)	+7.1	+4.3	+7.6	+3.4	+7.4	+7.9

1. Including coke. 2. Including quantities used in the production of steam for sale. 3. Including oil used in gas turbine and diesel plant and for lighting up coal fired boilers. 4. Including generation by gas turbine, diesel and hydro-electric plant. 5. Used 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	217,924	11,164	70,854	89,214	46,692
1976	220,841	12,607	74,986	85,117	48,131
Per cent change	+1.3	+12.9	+5.8	-4.6	+3.1
1975 2nd quarter	50,344	2,732	17,196	19,940	10,476
3rd quarter	42,042	2,407	16,219	14,218	9,198
4th quarter	59,498	2,922	18,838	24,545	13,193
1976 1st quarter	66,235	3,208	19,559	29,089	14,379
2nd quarter	48,537	3,071	17,910	17,148	10,408
3rd quarter	43,112	2,875	17,314	13,584	9,339
4th quarter	62,957	3,453	20,203	25,296	14,005
1977 1st quarter p	67,165	3,268	20,445	28,488	14,964
2nd quarter p	52,346	3,050 ²	19,064 ²	18,686	11,546
Per cent change	+7.8	-0.7	+6.4	+9.0	+10.9

1. Mainly commerce, public administration and agriculture.
2. Contains a small degree of estimation.

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
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-Aug	5,521	63,842	5,233	+57,926	683	59,836	1,910	7,648	9,610	-1,962	2,394
1977 Jan-Aug p	24,056	62,171	23,812	+38,023	336	48,760	10,737	7,686	9,861	-2,175	1,983
Per cent change	(+)	-2.6	(+)	-34.4	(-)	-18.5	(+)	+0.5	+2.6	+10.8	-17.2
1976 Jun	944	7,767	921	+6,808	38	6,999	191	820	1,225	-405	271
Jul	755	7,758	713	+7,009	36	7,349	340	815	1,446	-631	308
Aug	1,080	7,882	974	+6,907	1	7,311	404	727	1,114	-387	343
Total	2,779	23,407	2,608	+20,724	75	21,659	935	2,362	3,785	-1,423	922
1977 Jun	3,337	7,700	3,445	+4,186	69	5,974	1,788	912	1,136	-224	226
Jul	3,208	7,346	3,146	+4,138	62	5,421	1,283	862	1,261	-399	242
Aug p	3,424	7,127	3,422	+3,640	65	5,635	1,995	926	1,480	-554	243
Total	9,969	22,173	10,013	+11,964	196	17,030	5,066	2,700	3,877	-1,177	711
Per cent change	(+)	-5.3	(+)	-42.3	(+)	-21.4	(+)	+14.3	+2.4	-17.3	-22.9

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 pro- ducts 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
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-Aug	63,528	4,212	751	58,565	1,023	109	2,867	9,987	2,751	1,538	16,092	20,605	830	1,325
1977 Jan-Aug p	62,697	4,090	742	57,865	1,000	92	3,032	9,826	2,806	1,475	15,800	20,541	910	1,258
Per cent change	-1.3	-2.9	-1.2	-1.2	-2.3	-15.6	+5.8	-1.6	+2.0	-4.1	-1.8	-0.3	+9.6	-5.0
1976 Jun	7,953	505	111	7,337	106	12	405	1,294	365	146	1,923	2,607	99	180
Jul	7,447	507	104	6,836	109	15	219	1,312	377	95	1,877	2,381	108	180
Aug	7,508	532	93	6,883	115	15	338	1,363	395	130	1,828	2,270	107	152
Total	22,908	1,544	308	21,056	330	42	962	3,969	1,137	371	5,628	7,258	314	512
1977 Jun	7,501	500	113	6,888	103	7	403	1,186	417	122	1,922	2,294	129	183
Jul	7,141	524	76	6,541	128	13	333	1,289	451	103	1,738	2,083	121	173
Aug p	7,687	531	75	7,081	128	11	415	1,313	416	111	1,921	2,330	116	177
Total	22,329	1,555	264	20,510	359	31	1,151	3,788	1,284	336	5,581	6,707	366	533
Per cent change	-2.6	+0.6	-13.7	-2.6	+8.7	-25.2	+19.6	-4.6	+12.9	-9.7	-0.8	-7.6	+16.6	+4.2

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

TABLE 13. Deliveries of petroleum products for inland 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	Other ⁶					
							Domestic						
									Derv fuel	Other			
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-Aug	52,537	856	3,613	11,136	2,702	330	1,053	238	3,654	8,274	18,182	657	1,303
1977 Jan-Aug p	53,195	873	3,607	11,338	2,791	348	1,072	245	3,727	8,871	17,798	685	1,222
Per cent change	+ 1.3	+ 2.0	− 0.2	+ 1.8	+ 3.3	+ 5.3	+ 1.8	+ 2.8	+ 2.0	+ 7.2	− 2.1	+ 4.2	− 6.2
1976 Jun	5,819	99	367	1,476	362	9	90	24	476	729	1,856	86	190
Jul	5,715	88	439	1,534	399	9	81	24	465	657	1,678	93	174
Aug	5,417	87	499	1,494	400	5	46	18	416	578	1,572	79	151
Total	16,951	274	1,305	4,504	1,161	23	217	66	1,357	1,964	5,106	258	515
1977 Jun	5,974	94	426	1,458	394	11	72	23	462	749	1,965	89	175
Jul	5,523	84	432	1,490	423	6	59	20	453	643	1,609	82	163
Aug p	5,700	85	467	1,629	404	9	70	20	452	688	1,572	78	161
Total	17,197	263	1,325	4,577	1,221	26	201	63	1,367	2,080	5,146	249	499
Per cent change	+ 1.4	− 4.1	+ 1.5	+ 1.6	+ 5.2	+ 9.4	− 7.2	− 3.9	+ 0.7	+ 5.9	+ 0.8	− 3.2	− 3.1

1. Calendar months. 2. Including other petroleum gases, aviation spirit, wide-cut gasoline, industrial and white spirits, and paraffin wax. 3. Excluding refinery fuel and miscellaneous products. 4. Including very small amounts for petro-chemicals. 5. Now mainly for petro-chemical 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
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-Jul	41,874	6,225	247	1,824	10,388	16,396	1,938	4,956
1977 Jan-Jul p	42,254	6,029	163	1,742	10,527	16,618	1,939	5,236
Per cent change	+0.7	-3.1	-34.0	-4.5	+1.3	+1.4	+0.0	+5.6
1976 May	5,330	743	17	239	1,291	2,331	172	537
Jun	5,135	656	17	234	1,177	2,497	151	403
Jul	4,946	659	16	212	1,015	2,574	134	336
Total	15,411	2,058	50	685	3,483	7,402	457	1,276
1977 May	5,766	774	18	243	1,395	2,475	201	660
Jun	5,238	793	15	220	1,158	2,484	131	437
Jul p	4,812	672	13	189	957	2,526	108	347
Total	15,816	2,239	46	652	3,510	7,485	440	1,444
Per cent change	+2.6	+8.8	-8.7	-4.8	+0.8	+1.1	-3.7	+13.1

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 Jul	21.1	101	0.99
Aug	22.0	96	1.00
Sept	21.7	89	0.98
1977 Jul	20.6	96	0.87
Aug	20.9	89	0.94
Sept p	20.6	83	1.03

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

From \ To	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

Electricity generated outside the public electricity supply system in Great Britain (¹)

GWh

	Total	Industry										Transport undertakings
		Total Industry	Iron and Steel	Engineering and other metal trades	Food drink and tobacco	Coal mining	Chemical and allied trades		Textiles, leather and clothing	Paper, printing and stationery	Other industries (including gas and water works)	
							Nuclear ² power stations	Others ³				
1971	20,597	19,920	2,728	1,344	410	293	4,339	6,987	535	2,671	613	677
1972	20,727	20,034	2,587	1,320	409	323	4,098	7,408	458	2,786	645	693
1973	22,995	22,292	2,707	2,716	458	309	4,339	7,859	498	2,763	643	703
1974	22,588	21,939	2,180	3,139	521	251	4,222	7,904	450	2,598	674	649
1975	20,741	20,052	1,660	3,319	435	297	3,820	7,305	406	2,137	673	689
1976	21,978	21,288	1,706	3,362	496	269	3,736	8,398	423	2,249	649	690
Per cent change	+6.0	+6.2	+2.8	+1.3	+14.0	-9.4	-2.2	+15.0	+4.2	+5.2	-3.6	+0.1
1975 2nd quarter	4,852	4,683	369	825	61	71	828	1,738	104	525	162	169
3rd quarter	4,586	4,423	294	802	67	64	829	1,670	98	453	146	163
4th quarter	5,526	5,347	411	819	197	79	1,075	1,899	98	589	180	179
1976 1st quarter	5,958	5,770	480	852	100	74	1,098	2,263	115	599	189	188
2nd quarter	5,252	5,083	409	856	78	63	834	2,019	105	567	152	169
3rd quarter	4,954	4,793	367	790	72	58	812	1,982	96	479	137	161
4th quarter	5,814	5,642	450	864	246	74	992	2,134	107	604	171	172
1977 1st quarter p	5,760	5,577	503	882	136	69	922	2,162	108	625	170	183
2nd quarter p	5,007	4,836	352	885	78	77	802	1,876	93	533	140	171
Per cent change	-4.7	-4.9	-13.9	+3.4	-0.6	+22.2	-3.8	-7.1	-11.4	-6.0	-7.9	+1.2

1. Excludes electricity generated by commerce, public administration, etc. 2. Generated by UKAEA and British Nuclear Fuels Ltd. for the public electricity supply system. 3. Including production by the oil refining industry.