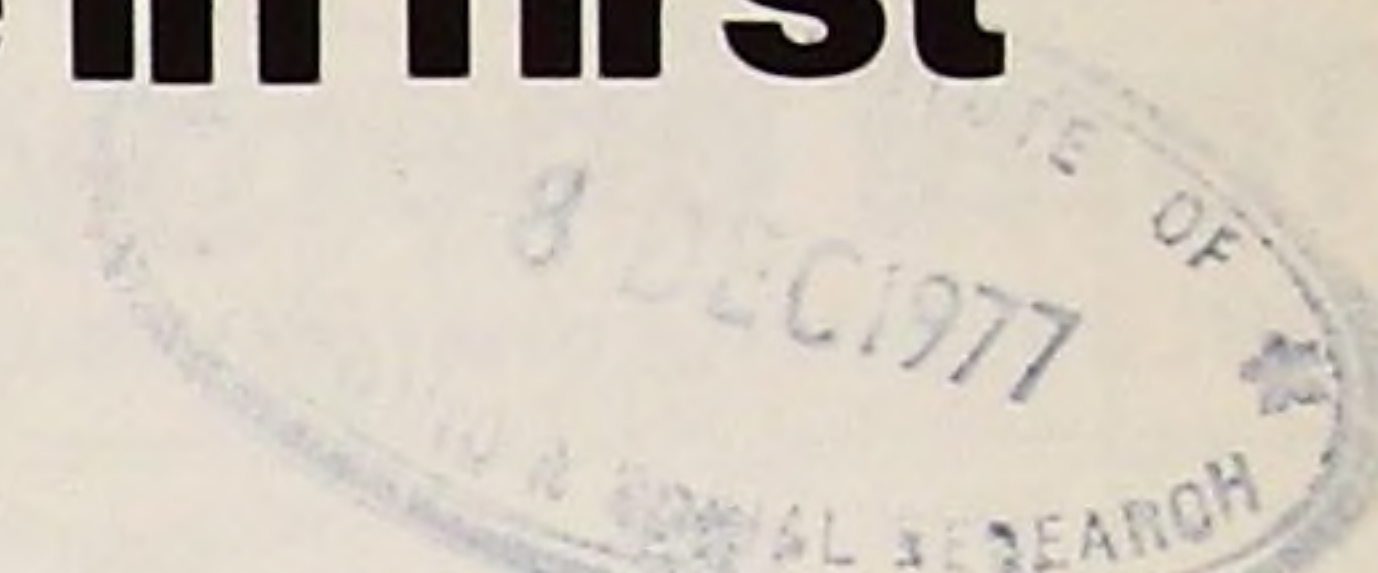


ENERGY TRENDS

A Statistical Bulletin

NOVEMBER 1977

Consumption up nine mtce in first three-quarters of 1977



Total Energy

Cool weather pushes up consumption

During the first nine months of the year total inland energy consumption on a primary fuel input basis was nearly 243 million tons of coal equivalent, that is nine mtce more than in the corresponding period of last year, an increase of 3.7 per cent. Of the individual fuels the largest increase was recorded by natural gas which rose by 3.9 mtce to a level of 8.7 per cent above last year. Coal consumption was higher by 2.7 million tons, an increase of 3.1 per cent and nuclear electricity rose by 16.4 per cent in contributing an additional 1.5 mtce in terms of equivalent fossil fuel input. Petroleum deliveries rose by 1.1 per cent, the increase being largely confined to the last two months of the period. Temperatures during the period as a whole were lower than average and seven of the nine months were substantially cooler than in 1976. After seasonal adjustment and correction for temperature differences, total consumption measured at an annual rate was about 2.4 per cent above last year's level.

A similar pattern is evident in the third quarter of the year when compared with the corresponding quarter a year ago, unadjusted total consumption was higher by 4.7 per cent but the increase was down to 2.9 per cent when seasonal and temperature effects are taken into account.

Coal

Opencast output high

Deep-mined coal production during the three month period August to October was two per cent lower than in the comparable period of 1976. Opencast production in contrast rose by almost a fifth. This additional 0.6 million tons more than compensated for the lower deep-mined output and brought total production marginally above last year's figure.

Total consumption of coal during the period rose by 1.3 per cent with all consuming sectors except coke ovens and collieries showing gains on last year's levels. Power stations consumed an additional 0.7 million tons and colliery disposals of house coal for the domestic market rose by nearly 10 per cent and naturally smokeless fuels by over 20 per cent.

Total coal stocks rose by 0.9 million tons during October most of the increase being at power stations where stocks at the end of the month were 19.1 million tons, about 2.1 million tons less than a year ago.

Gas

Demand slackens in mild October

Total natural gas input into the public supply system during the three month period August to October was 12½ per cent higher than in the corresponding period of last year. The first supplies of natural gas from the Frigg field are included in the October figures. Total gas sent out during the period as a whole was 10.5 per cent greater than a year ago but the rate of increase slackened during October which was much milder than average for the month.

Electricity

Rising demand

not stocks

Total electricity generated by the public supply system during the first nine months of the year was 5.1 per cent higher than in the corresponding period of 1976, the proportion generated by nuclear stations increasing from 12.8 per cent of the total last year to 14.4 per cent this year. Total fuel consumed for generation also rose by 5.1 per cent, coal use was up by 3½ million tons while oil use declined marginally and consumption of natural gas was almost halved.

Total electricity supplied during the third quarter was 7.8 per cent higher than a year ago and although the cooler conditions prevailing account for part of the increase the September figures give a further indication of an upward trend in demand.

Petroleum

Increasing North Sea contribution

Oil produced from the North Sea accounted for nearly 40 per cent of total crude oil supply during the first nine months of the year compared with nine per cent in the corresponding period of 1976. By the third quarter of 1977, when indigenous crude oil supply totalled nearly 10 million tons, the proportion had risen to 46 per cent.

Total inland deliveries of petroleum products during the third quarter were 2.7 per cent higher than in the comparable quarter of last year. Motor spirit deliveries rose by 3.5 per cent and derv fuel by 2.3 per cent, but the largest increases were in oils used for heating, gas/diesel oil and domestic standard grade burning oil, deliveries of which rose by 14.7 per cent and 11.9 per cent respectively.

Value of fuel imports and exports

Improved balance of trade

The total cif value of imports of crude and refined petroleum during the third quarter of the year was £1160 million, £214 million less than in the corresponding quarter of 1976. Total exports of petroleum (fob) rose to £586 million during the same period an increase on last year of over £260 million.

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. 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 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>					
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-Sept	234.1	87.6	96.0	39.9	9.2	1.4	139.9	52.3	57.4	23.8	5.5	0.9
1977 Jan-Sept p	242.8	90.3	97.1	43.8	10.7	1.3	145.0	54.0	58.0	25.9	6.4	0.8
Per cent change	+3.7	+3.1	+1.1	+8.7	+16.4	–7.3	+3.7	+3.1	+1.1	+8.7	+16.4	–7.3
1976 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
Sept*	26.8	10.3	11.5	3.6	1.3	0.1	16.0	6.1	6.9	2.2	0.8	—
Total	64.9	24.8	27.8	8.9	3.1	0.3	38.8	14.8	16.6	5.4	1.9	0.1
1977 Jul	20.1	7.9	8.1	3.1	0.9	0.1	12.0	4.7	4.9	1.9	0.5	—
Aug	19.9	7.1	8.4	3.2	1.1	0.1	11.9	4.3	5.0	1.9	0.6	0.1
Sept p*	27.9	10.4	12.2	3.7	1.5	0.1	16.7	6.2	7.3	2.2	0.9	0.1
Total	67.9	25.4	28.7	10.0	3.5	0.3	40.6	15.2	17.2	6.0	2.0	0.2
Per cent change	+4.7	+2.6	+3.0	+13.1	+10.7	+22.0	+4.7	+2.6	+3.0	+13.1	+10.7	+22.0

Seasonally adjusted and temperature corrected⁴ (annual rates).

1976 Jan-Sept	327.3	122.0	134.5	56.3	12.5	2.0	195.6	72.9	80.4	33.6	7.5	1.2
1977 Jan-Sept p	335.1	121.9	135.2	61.3	14.7	2.0	200.3	72.8	80.8	36.7	8.8	1.2
Per cent change	+2.4	–0.1	+0.5	+9.0	+17.3	+3.0	+2.4	–0.1	+0.5	+9.0	+17.3	+3.0
1976 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
Sept*	326.7	118.3	133.7	58.3	15.3	1.1	195.2	70.7	79.9	34.9	9.1	0.6
Average	325.3	120.7	134.6	54.1	14.4	1.5	194.4	72.1	80.4	32.4	8.6	0.9
1977 Jul	328.4	122.7	130.1	59.7	14.2	1.7	196.3	73.4	77.7	35.7	8.5	1.0
Aug	339.3	118.5	139.6	63.1	16.5	1.6	202.7	70.8	83.5	37.7	9.8	0.9
Sept p*	336.0	116.9	140.8	58.9	17.4	2.0	200.8	69.8	84.2	35.2	10.4	1.2
Average	334.7	119.2	137.2	60.4	16.2	1.7	200.0	71.2	82.0	36.1	9.7	1.0
Per cent change	+2.9	–1.3	+1.9	+11.6	+12.0	+19.8	+2.9	–1.3	+1.9	+11.6	+12.0	+19.8

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

Million tons
coal equivalent

Million tonnes
oil equivalent

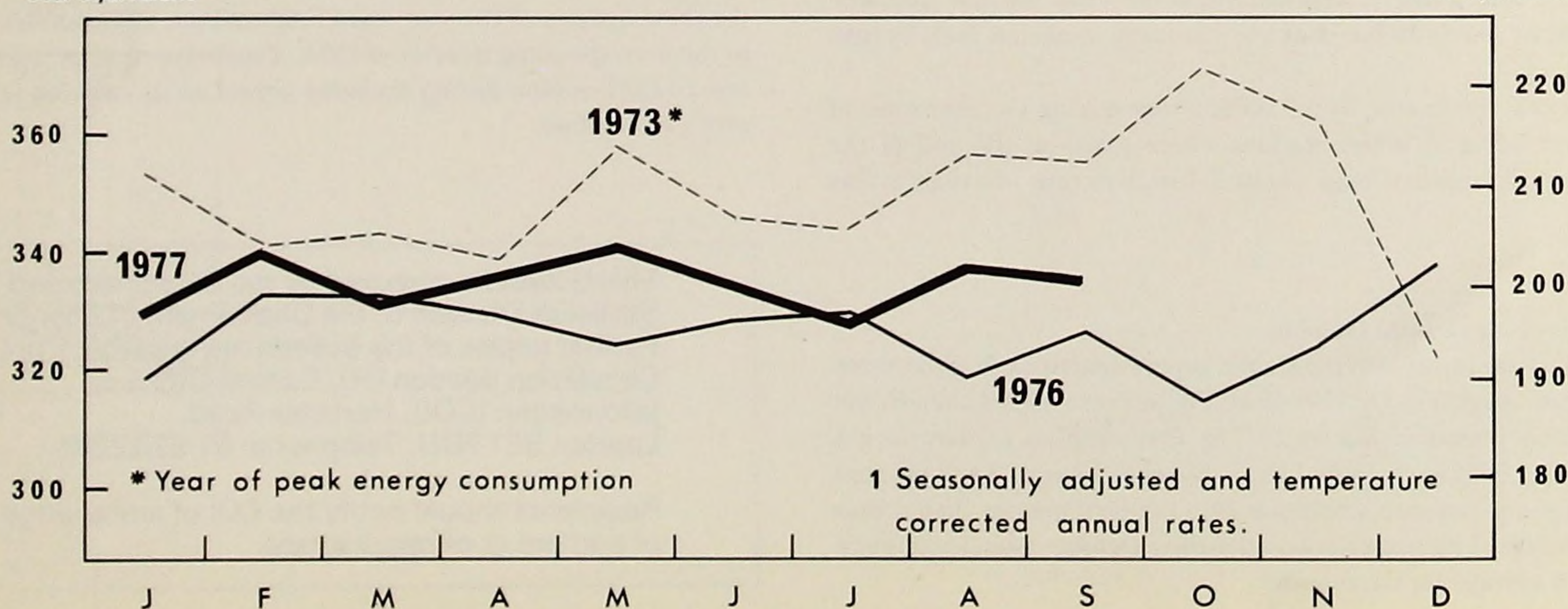


TABLE 2. Supply and use of fuels

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-Oct	100,119	98,789	87,821	9,688	+1,330	2,462	1,132	11,575	1,013
1977 Jan-Oct p	97,457	97,240	85,357	10,810	+217	1,867	1,650	12,172	647
Per cent change	-2.7	-1.6	-2.8	+11.6	-83.7	-24.2	+45.8	+5.2	-36.1
1976 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
Oct	9,918	9,851	8,954	848	+67	197	130	34	132
Total	27,379	27,201	23,834	3,022	+178	525	347	4,808	598
1977 Aug	6,690	6,549	5,383	989	+141	271	130	3,257	25
Sept*	10,856	10,736	9,209	1,478	+120	310	190	1,475	81
Oct p	10,060	10,065	8,765	1,142	-5	130	135	73	63
Total	27,606	27,350	23,357	3,609	+256	711	455	4,805	169
Per cent change	+0.8	+0.5	-2.0	+19.4	+43.8	+35.4	+31.1	-0.1	-71.7

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-Oct	96,922	888	60,200	15,773	6	2,852	6,916	7,629	1,102	1,556
1977 Jan-Oct p	99,556	887	64,082	14,545	6	2,529	7,054	7,684	1,174	1,595
Per cent change	+2.7	-0.1	+6.4	-7.8	-	-11.3	+2.0	+0.7	+6.5	+2.5
1976 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
Oct	9,358	86	5,757	1,502	-	235	785	719	112	162
Total	26,481	216	16,030	4,840	1	748	1,970	1,987	312	377
1977 Aug	7,149	49	4,463	1,305	-	227	473	463	82	87
Sept *	10,434	77	6,464	1,585	1	324	778	889	164	152
Oct p	9,230	84	5,820	1,207	-	252	733	832	129	173
Total	26,813	210	16,747	4,097	1	803	1,984	2,184	375	412
Per cent change	+1.3	-2.8	+4.5	-15.4	-	+7.4	+0.7	+9.9	+20.2	+9.3

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 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
Oct	34,326	23,717	21,185	2,331	1	200	10,609	9,135	1,474
1977 Aug	29,173	20,410	18,248	1,981	1	180	8,763	7,227	1,536
Sept	29,419	20,483	18,422	1,880	1	180	8,936	7,348	1,588
Oct p	30,314	21,317	19,103	2,013	1	200	8,997	7,464	1,533
Absolute change:									
In latest month	+895	+834	+681	+133	-	+20	+61	+116	-55
On a year ago	-4,012	-2,400	-2,082	-318	-	-	-1,612	-1,671	+59

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					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 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	
Oct	242	192	1,453	1,886	17.9	3.9	14.0	43.29	149.35	
1977 Aug	238	188	2,409	8,243	15.5	3.1	12.4	38.46	149.27	
Sept *	239	189	3,206	2,330	17.0	3.9	13.1	40.35	144.44	
Oct p	239	188	2,200	2,450	17.8	4.2	13.6	42.85	150.53	

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 ³ 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-Oct	11,068	10,730	338	6	192	11,098	201	10,897
1977 Jan-Oct p	11,991	11,674	317	6	124	11,951	67	11,884
Per cent change	+8.3	+8.8	-6.2	+1.7	-35.4	+7.7	-66.7	+9.1
1976 Aug	597	560	37	—	10	604	6	598
Sept*	979	946	33	1	14	991	10	981
Oct	997	980	17	—	15	1,003	11	992
Total	2,573	2,486	87	1	39	2,598	27	2,571
1977 Aug	723	701	22	—	5	718	3	715
Sept*	1,098	1,079	19	1	9	1,089	3	1,086
Oct p	1,074	960	114	—	19	1,063	3	1,060
Total	2,895	2,740	155	1	33	2,870	9	2,861
Per cent change	+12.5	+10.2	+79.2	—	-15.4	+10.5	-66.7	+11.3

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), liquefied petroleum gases (LPG) and refinery gases. 3. Includes Substitute Natural Gas (SNG).

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-Sept	77.80	54.44	11.97	2.04	8.10	1.22	182.39	23.41	155.29	13.80	168.59	171.29
1977 Jan-Sept p	81.76	57.94	11.90	1.16	9.64	1.08	191.78	27.65	160.57	14.48	177.30	179.83
Per cent change	+5.1	+6.4	-0.6	-43.1	+19.0	-11.5	+5.1	+18.1	+3.4	+4.9	+5.2	+5.0
1976 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
Sept *	8.77	6.12	1.26	0.19	1.15	0.05	20.58	3.31	17.02	1.66	18.92	19.24
Total	21.10	14.85	2.86	0.48	2.74	0.17	49.49	7.88	40.89	4.10	45.39	46.16
1977 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	6.65	4.68	0.75	0.22	0.95	0.05	15.73	2.75	12.77	1.28	14.45	14.73
Sept p *	9.52	6.60	1.35	0.16	1.29	0.11	22.01	3.72	17.91	1.71	20.30	20.64
Total	22.71	15.90	3.05	0.54	3.01	0.20	53.12	8.70	43.65	4.21	48.91	49.77
Per cent change	+7.6	+7.1	+6.6	+12.5	+9.9	+17.6	+7.3	+10.4	+6.7	+2.7	+7.8	+7.8
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-Sept	67.44	48.26	9.90	2.04	7.16	0.05	158.86	20.60	137.77	11.49	147.37	148.56
1977 Jan-Sept p	70.81	51.67	9.83	1.16	8.04	0.07	166.63	23.04	142.93	11.99	154.64	156.18
Per cent change	+5.0	+7.1	-0.7	-43.1	+12.3	+40.0	+4.9	+11.8	+3.7	+4.4	+4.9	+5.1
1976 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
Sept *	7.61	5.42	1.02	0.19	0.97	0.01	17.90	2.78	15.08	1.35	16.55	16.77
Total	18.43	13.32	2.29	0.48	2.33	0.01	43.37	6.73	36.53	3.35	40.02	40.40
1977 Jul	5.78	4.20	0.81	0.16	0.61	—	13.56	1.75	11.80	0.99	12.57	12.74
Aug	5.83	4.21	0.60	0.22	0.80	—	13.82	2.31	11.48	1.06	12.76	12.89
Sept p *	8.20	5.81	1.09	0.16	1.12	0.01	19.06	3.22	15.77	1.43	17.63	17.94
Total	19.81	14.22	2.50	0.54	2.53	0.01	46.44	7.28	39.05	3.48	42.96	43.57
Per cent change	+7.5	+6.8	+9.2	+12.5	+8.6	(+)	+7.1	+8.2	+6.9	+3.9	+7.3	+7.8

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
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	Supply				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-Sept	6,790	71,394	6,424	+ 64,309	661	66,800	2,491	8,207	11,234	— 3,207	2,668
1977 Jan-Sept p	27,534	69,452	27,234	+ 41,840	378	54,076	12,236	8,647	10,971	— 2324	2,287
Per cent change	(+)	— 2.7	(+)	— 34.9	— 42.8	— 19.0	(+)	+ 5.4	— 2.3	— 23.2	— 14.3
1976 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
Sept	1,249	7,557	1,196	+ 6,383	— 22	6,964	581	559	1,624	— 1,065	274
Total	3,084	23,197	2,883	+ 20,299	15	21,624	1,325	2,101	4,184	— 2,083	925
1977 Jul	3,208	7,346	3,146	+ 4,138	62	5,421	1,283	862	1,261	— 399	242
Aug	3,423	7,127	3,422	+ 3,640	65	5,635	1,995	967	1,480	— 513	243
Sept p	3,478	7,281	3,421	+ 3,818	42	5,316	1,498	961	1,111	— 150	287
Total	10,109	21,754	9,989	+ 11,596	169	16,372	4,776	2,790	3,852	— 1,062	772
Per cent change	(+)	— 6.2	(+)	— 42.9	(+)	— 24.3	(+)	+ 32.8	— 7.9	— 49.0	— 16.5

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				
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-Sept	71,711	4,739	778	66,194	1,147	123	3,265	11,282	3,162	1,687	18,056	23,443	954	1,480
1977 Jan-Sept p	70,146	4,617	824	64,705	1,133	106	3,359	11,092	3,148	1,684	17,597	22,850	1,021	1,422
Per cent change	-2.2	-2.6	+6.0	-2.2	-1.1	-13.7	+2.9	-1.7	-0.4	-0.2	-2.5	-2.5	+7.0	-3.9
1976 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
Sept	8,183	527	27	7,629	124	14	398	1,296	411	150	1,963	2,838	124	155
Total	23,138	1,566	224	21,348	348	44	955	3,971	1,183	375	5,668	7,489	339	487
1977 Jul	7,141	524	76	6,541	128	13	333	1,289	451	103	1,738	2,083	121	173
Aug	7,687	531	75	7,081	128	11	415	1,313	416	111	1,921	2,330	116	177
Sept p	7,450	528	82	6,840	134	14	327	1,265	343	209	1,797	2,309	111	164
Total	22,278	1,583	233	20,462	390	38	1,075	3,867	1,210	423	5,456	6,722	348	514
Per cent change	-3.7	+1.1	+4.9	-4.2	+12.0	-12.6	+12.5	-2.6	+2.2	+12.7	-3.7	-10.2	+2.9	+5.7

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	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-Sept	58,608	956	4,091	12,597	3,090	354	1,152	264	4,134	9,086	20,066	747	1,466
1977 Jan-Sept p	59,642	973	4,057	12,865	3,168	378	1,195	273	4,214	9,889	19,741	777	1,407
Per cent change	+ 1.8	+ 1.7	- 0.9	+ 2.1	+ 2.5	+ 6.6	+ 3.8	+ 3.2	+ 1.9	+ 8.8	- 1.6	+ 4.1	- 4.1
1976 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
Sept	6,071	100	479	1,461	388	24	99	26	480	813	1,884	90	163
Total	17,203	275	1,417	4,489	1,187	38	226	68	1,361	2,048	5,134	262	488
1977 Jul	5,522	84	432	1,490	423	6	59	20	453	643	1,609	81	163
Aug	5,728	85	455	1,631	404	10	69	21	452	695	1,592	80	161
Sept p	6,420	100	462	1,524	377	29	124	27	488	1,011	1,923	91	185
Total	17,670	269	1,349	4,645	1,204	45	252	68	1,393	2,349	5,124	252	509
Per cent change	+ 2.7	- 2.1	- 4.8	+ 3.5	+ 1.5	+ 15.7	+ 11.9	+ 0.2	+ 2.3	+ 14.7	- 0.2	- 3.4	+ 4.2

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-Aug	46,602	6,837	263	2,030	11,318	18,878	2,026	5,250
1977 Jan-Aug p	47,206	6,596	176	1,936	11,556	19,276	2,065	5,601
Per cent change	+1.2	-3.5	-33.0	-4.6	+2.1	+2.1	+1.9	+6.7
1976 Jun	5,135	656	17	234	1,177	2,497	151	403
Jul	4,946	659	16	212	1,015	2,574	134	336
Aug	4,627	612	16	206	929	2,482	88	294
Total	14,708	1,927	49	652	3,121	7,553	373	1,033
1977 Jun	5,238	793	15	220	1,158	2,484	131	437
Jul	4,797	672	13	189	942	2,526	108	347
Aug p	4,967	566	13	194	1,044	2,659	126	365
Total	15,002	2,031	41	603	3,144	7,669	365	1,149
Per cent change	+2.0	+5.4	-14.9	-7.5	+0.7	+1.5	-2.4	+11.2

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 Aug	22.0	96	1.00
Sept	21.7	89	0.98
Oct	22.0	85	0.98
1977 Aug	20.9	89	0.94
Sept	20.8	84	1.03
Oct p	20.1	80	0.98

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

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 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
2nd quarter	14.4	3.2	3.8	1,099.4	263.9	—	1,384.7	11.3	12.1	498.2	—	521.6
3rd quarter	27.6	3.1	4.4	923.7	236.1	—	1,194.9	11.7	10.0	586.2	—	607.9
Per cent change	+47.5	+15.8	-14.9	-19.2	+2.5	—	-14.7	+37.0	-11.7	+80.6	(-)	+76.4

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.

Prepared by the Department of Energy and the Central Office of Information, 1977. PRO. 6801

Printed in England for Her Majesty's Stationery Office by CoH Dd 110919
ISSN 0308/1222