

## DEPARTMENT OF ENERGY

## ENERGY TRENDS

## A Statistical Bulletin

MAY 1976

# Small rise in Consumption



## Total energy

### Natural gas growth continues

Total inland energy consumption on a primary fuel input basis during the three months January to March was about 1½ per cent higher than in the corresponding period of 1975. After seasonal adjustment and correction for temperature the difference narrowed to 1 per cent, reflecting the fact that the first quarter this year was on average slightly cooler than a year ago. In both the unadjusted and seasonally adjusted series, coal consumption remained close to the levels of a year ago, with petroleum consumption lower by about 2 per cent, and the overall increase was wholly attributable to the 14 per cent increase in natural gas consumption.

Comparison between the two years is possibly disturbed by the incidence of Easter holidays, which in 1975 fell at the end of March (whereas they were in April this year) and a clearer appreciation of the trend in consumption may emerge next month.

## Coal

### Output down again

Deep-mined coal production in the first four months of the year was more than 7 per cent lower than in the comparable period of 1975, but this was partly offset by an increase of 10 per cent in the output of opencast coal. Consumption at power stations rose during January-April by less than 3 per cent but this rise was more than offset by declining use in most of the remaining consuming sectors, and overall, coal consumption fell by about 2 per cent.

Colliery manpower has been declining since the middle of last year and a further fall in April brought net wastage for the first four months of the year to over 2,000 men.

## Gas

### Continuing growth

Total gas sent out in the four months January-April 1976 was nearly 8½ per cent higher than in the corresponding period last year. A small part of the increase may be attributable to the slightly lower average temperature this year.

Town gas supplies continue to diminish and now account for only a little over 2 per cent of total gas sent out compared with nearly 8 per cent a year ago.

## Electricity

### Oil burn still declining

Total electricity supplied in the first three months of 1976 was 1.3 per cent lower than in the corresponding period of 1975. The corresponding decline in primary fuel used for generation during the period was 2.0 per cent. Coal and natural gas consumption rose by about 6 per cent and 17 per cent respectively but were more than offset by the decline in oil consumption, which fell by over 25 per cent compared with a year ago.

## Petroleum

### Product deliveries rise

Refinery throughput of crude and process oils and total output of products in the first three months of 1976 were each marginally greater than in the comparable period of 1975. Fuel oil output was down by 12½ per cent and continued at well below last year's level but motor spirit, burning oil and gas/diesel oil were all higher by about 9½ per cent.

Total deliveries of products during the quarter were lower by nearly 2½ per cent, but higher deliveries than a year ago were recorded in both February and March. During the three month period as a whole, deliveries of most of the principal products were higher than last year but demand for fuel oil, used mainly by power stations and industry, was lower by nearly 12 per cent.

### Value of fuel imports and exports

A table showing the value of external trade in fuels is included this month. A notable feature is the reduction in 1975 of nearly £400 million in the value of crude oil imports compared with the previous year. This was mainly due to a drop of over 24 million tons in the volume of crude oil imported.

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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*. 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	Petroleum <sup>1</sup>	Natural gas	Nuclear electricity	Hydro-electricity	Total	Coal	Petroleum <sup>1</sup>	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>					
1970	329.6	154.4	145.6	17.6	9.4	2.6	197.0	92.3	87.0	10.5	5.6	1.6
1971	325.9	138.7	147.3	28.4	9.7	1.8	194.8	82.9	88.0	17.0	5.8	1.1
1972	331.3	120.9	157.6	40.3	10.5	2.0	198.0	72.3	94.2	24.0	6.3	1.2
1973	346.1	131.3	159.4	43.5	9.9	2.0	206.9	78.5	95.3	26.0	5.9	1.2
1974	331.1	116.0	149.0	52.1	11.9	2.1	197.9	69.3	89.0	31.2	7.1	1.3
1975 p	320.5	120.3	132.9	54.5	10.8	2.0	191.5	71.9	79.4	32.6	6.4	1.2
Per cent change	-3.2	+3.7	-10.8	+4.7	-9.7	-7.9	-3.2	+3.7	-10.8	+4.7	-9.7	-7.9
1975 Jan	29.1	9.6	12.4	5.7	1.0	0.4	17.4	5.7	7.4	3.5	0.6	0.2
Feb	29.6	11.1	11.9	5.3	1.0	0.3	17.7	6.6	7.1	3.2	0.6	0.2
Mar*	34.3	13.9	13.3	5.7	1.2	0.2	20.5	8.3	7.9	3.4	0.8	0.1
Total	93.0	34.6	37.6	16.7	3.2	0.9	55.6	20.6	22.4	10.1	2.0	0.5
1976 Jan	28.2	9.9	10.6	6.4	1.0	0.3	16.8	5.9	6.3	3.8	0.6	0.2
Feb	30.6	11.5	11.7	6.2	1.0	0.2	18.3	6.9	7.0	3.7	0.6	0.1
Mar*p	35.7	13.1	14.6	6.5	1.3	0.2	21.3	7.8	8.7	3.9	0.8	0.1
Total	94.5	34.5	36.9	19.1	3.3	0.7	56.4	20.6	22.0	11.4	2.0	0.4
Per cent change	+1.6	—	-2.1	+14.4	+0.5	-13.0	+1.6	—	-2.1	+14.4	+0.5	-13.0

Seasonally adjusted and temperature corrected<sup>2</sup> (annual rates)

1975 Jan	327.9	117.8	145.1	51.8	10.5	2.7	196.0	70.4	86.7	31.0	6.3	1.6
Feb	327.7	129.9	132.3	52.9	10.5	2.1	195.8	77.6	79.1	31.6	6.3	1.2
Mar*	321.6	129.6	123.3	55.9	11.0	1.8	192.2	77.4	73.7	33.4	6.6	1.1
Average	325.4	126.1	132.8	53.6	10.7	2.2	194.5	75.3	79.4	32.1	6.4	1.3
1976 Jan	315.5	123.0	122.5	58.0	10.2	1.8	188.6	73.5	73.2	34.7	6.1	1.1
Feb	334.1	129.7	130.4	61.6	10.4	2.0	199.6	77.5	77.9	36.8	6.2	1.2
Mar*p	336.0	124.0	135.7	63.1	11.1	2.1	200.8	74.1	81.1	37.7	6.6	1.3
Average	329.1	125.4	130.0	61.1	10.6	2.0	196.7	74.9	77.7	36.5	6.4	1.2
Per cent change	+1.1	-0.6	-2.1	+14.0	-0.9	-9.1	+1.1	-0.6	-2.1	+14.0	-0.9	-9.1

1. Excludes non-energy use of petroleum products

2. Only coal and petroleum are temperature corrected

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

Million tons  
coal equivalent

Million tonnes  
oil equivalent

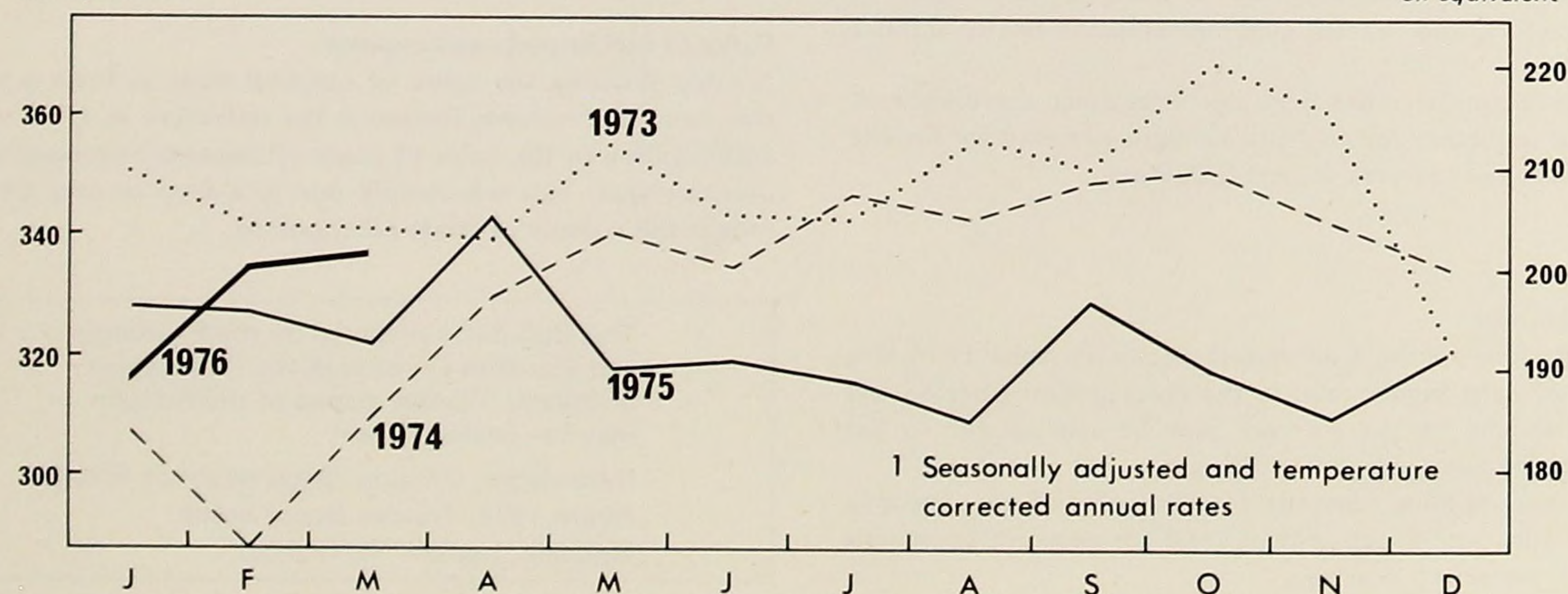




TABLE 2. Inland energy consumption: heat supplied basis

Million therms

			Per cent change	1973	1974				1975 p				Per <sup>1</sup> cent change
	1974	1975		4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	
Total primary <sup>2</sup> energy input	83,494	80,584	−3.5	24,277	21,866	19,751	17,903	23,974	23,287	18,998	15,955	22,344	−6.8
Conversion losses etc. <sup>3</sup>	25,006	24,747	−1.0	7,427	6,293	5,810	5,399	7,504	6,890	5,763	5,008	7,086	−5.6
Final consumption by user:													
Iron and steel industry													
Coal	99	72	−27.3	36	23	34	16	26	25	18	10	19	−26.9
Other solid fuel <sup>4</sup>	2,620	2,272	−13.3	769	564	691	710	655	720	549	459	544	−16.9
Other coal-derived fuels <sup>5</sup>	374	366	−2.1	121	79	104	96	95	106	96	75	89	−6.3
Gas <sup>6</sup>	395	371	−6.1	107	110	102	86	97	101	91	79	100	+3.1
Electricity	345	344	−0.3	90	81	87	84	93	94	84	74	92	−1.1
Petroleum	1,648	1,357	−17.7	541	484	366	347	451	449	334	244	330	−26.8
Total	5,481	4,782	−12.8	1,664	1,341	1,384	1,339	1,417	1,495	1,172	941	1,174	−17.1
Other industries													
Coal	2,795	2,458	−12.1	870	514	802	733	746	660	613	528	657	−11.9
Other solid fuel <sup>4</sup>	228	161	−29.4	70	52	61	52	63	50	48	34	29	−54.0
Other coal-derived fuels <sup>5</sup>	63	94	+49.2	12	10	18	18	17	21	27	26	20	+17.6
Gas <sup>6</sup>	4,692	4,700	+0.2	1,192	1,230	1,148	1,041	1,273	1,295	1,091	1,007	1,307	+2.7
Electricity	2,244	2,227	−0.8	608	503	572	551	618	589	540	506	592	−4.2
Petroleum	8,433	7,455	−11.6	2,706	2,470	1,942	1,619	2,402	2,148	1,777	1,306	2,224	−7.4
Total	18,455	17,095	−7.4	5,458	4,779	4,543	4,014	5,119	4,763	4,096	3,407	4,829	−5.7
Transport sector													
Coal	24	21	−12.5	8	7	5	4	8	7	4	3	7	−12.5
Electricity	92	101	+9.8	22	21	23	23	25	27	25	24	25	—
Petroleum	12,295	12,143	−1.2	3,123	2,744	3,126	3,289	3,136	2,771	3,104	3,225	3,043	−3.0
Total	12,411	12,265	−1.2	3,153	2,772	3,154	3,316	3,169	2,805	3,133	3,252	3,075	−3.0
Domestic sector													
Coal	3,932	3,371	−14.3	998	761	1,067	947	1,157	1,010	900	697	764	−34.0
Other solid fuel <sup>4</sup>	1,100	959	−12.8	304	233	290	281	296	270	229	259	201	−32.1
Gas <sup>6</sup>	5,380	5,891	+9.5	1,561	1,978	1,010	695	1,697	2,329	1,119	615	1,828	+7.7
Electricity	3,157	3,047	−3.5	895	1,033	670	537	917	1,038	679	487	843	−8.1
Petroleum	1,482	1,434	−3.2	554	514	279	188	501	473	306	194	461	−8.0
Total	15,051	14,702	−2.3	4,312	4,519	3,316	2,648	4,568	5,120	3,233	2,252	4,097	−10.3
Other final users <sup>7</sup>													
Coal	669	518	−22.6	221	189	142	125	213	136	130	83	169	−20.7
Other solid fuel <sup>4</sup>	373	219	−41.3	93	87	97	91	98	64	49	63	43	−56.1
Gas <sup>6</sup>	1,269	1,347	+6.1	342	433	276	173	387	472	310	171	394	+1.8
Electricity	1,444	1,554	+7.6	463	361	321	305	457	461	348	304	441	−3.5
Petroleum	3,335	3,355	+0.6	1,144	1,092	708	493	1,042	1,081	764	474	1,036	−0.6
Total	7,090	6,993	−1.4	2,263	2,162	1,544	1,187	2,197	2,214	1,601	1,095	2,083	−5.2
Total final users	58,488	55,837	−4.5	16,850	15,573	13,941	12,504	16,470	16,397	13,235	10,947	15,258	−7.4

## Final consumption by fuel:

Coal	7,519	6,440	-14.4	2,133	1,494	2,050	1,825	2,150	1,838	1,665	1,321	1,616	-24.8
Other solid fuel <sup>4</sup>	4,321	3,611	-16.4	1,236	936	1,139	1,134	1,112	1,104	875	815	817	-26.5
Other coal-derived fuels <sup>5</sup>	437	460	+5.3	133	89	122	114	112	127	123	101	109	-2.7
Gas <sup>6</sup>	11,736	12,309	+4.9	3,202	3,751	2,536	1,995	3,454	4,197	2,611	1,872	3,629	+5.1
Electricity	7,282	7,273	-0.1	2,078	1,999	1,673	1,500	2,110	2,209	1,676	1,395	1,993	-5.5
Petroleum	27,193	25,744	-5.3	8,068	7,304	6,421	5,936	7,532	6,922	6,285	5,443	7,094	-5.8
Total all fuels	58,488	55,837	-4.5	16,850	15,573	13,941	12,504	16,470	16,397	13,235	10,947	15,258	-7.4

1. Per cent change on the corresponding period of the previous year.

2. Thermal equivalent of total energy consumption in Table 1. A more detailed analysis of the annual figures is shown in the Digest of United Kingdom Energy Statistics 1975, Tables 6 and 8.

3. Losses in conversion and distribution and used by fuel industries.

4. Coke and other manufactured solid fuels.

5. Coke oven gas, creosote/pitch mixtures and other liquid fuels derived from coal.

6. Natural gas supplied direct, and town gas.

7. Mainly public administration, commerce and agriculture.



# Coal

TABLE 3. Supply

Thousand tons

	Net inland supply	Production			Net Imports	Imports <sup>2</sup>	Exports <sup>2</sup>	Tonnage lost (deep-mined) <sup>3</sup>	
		Total <sup>1</sup>	Deep-mined	Opencast				Recognised holidays and rest days	Disputes
1973	128,897	129,906	118,140	9,964	-1,009	1,642	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-Apr	44,904	44,321	40,878	3,273	+583	1,639	1,056	2,094	117
1976 Jan-Apr p	42,635	42,013	37,875	3,606	+622	1,051	429	3,020	284
Per cent change	-5.1	-5.2	-7.3	+10.2	+6.9	-35.9	-59.4	+44.2	(+)
1975 Feb	11,059	10,909	10,090	779	+150	370	220	-	38
Mar*	13,942	14,008	12,844	1,114	-66	290	356	113	20
Apr	10,527	10,232	9,442	750	+295	478	183	773	25
Total	35,528	35,149	32,376	2,643	+379	1,138	759	886	83
1976 Feb	10,985	10,759	9,660	951	+226	322	96	-	155
Mar p*	13,296	13,149	11,828	1,173	+147	281	134	-	62
Apr p	9,828	9,679	8,717	824	+149	248	99	840	34
Total	34,109	33,587	30,205	2,948	+522	851	329	840	251
Per cent change	-4.0	-4.4	-6.7	+11.5	+37.7	-25.2	-56.7	-5.2	(+)

1. Includes an estimate for slurry, etc., recovered and disposed of otherwise than by the National Coal Board

2. As recorded in the "Overseas Trade Statistics of the United Kingdom" 3. NCB mines only.

TABLE 4. Inland consumption of coal

Thousand tons

	Total inland consumption	Fuel producers					Final Users <sup>1</sup>			
		Primary	Secondary				Colliery disposals			
		Collieries	Power stations <sup>2</sup>	Coke ovens	Gas works	Other <sup>3</sup> conversion industries	Industry <sup>4</sup>	Domestic <sup>5</sup> House Coal <sup>6</sup>	Other <sup>7</sup>	Other <sup>8</sup>
1973	131,288	1,359	75,628	21,543	504	3,550	11,890	12,519	1,755	2,540
1974	116,043	1,236	65,967	18,169	105	3,728	10,902	11,848	1,623	2,465
1975	120,303	1,218	73,391	18,783	9	3,999	9,532	9,844	1,609	1,918
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-Apr	44,324	466	27,373	6,703	5	1,341	3,290	3,804	651	691
1976 Jan-Apr p	43,537	425	28,151	6,070	3	1,238	2,789	3,579	442	840
Per cent change	-1.8	-8.8	+2.8	-9.4	-40.0	-7.7	-15.2	-5.9	-32.1	+21.6
1975 Feb	11,120	111	7,083	1,575	2	329	816	799	162	243
Mar*	13,856	151	8,792	2,019	1	393	989	1,275	193	43
Apr	9,778	97	5,909	1,578	1	277	708	888	138	182
Total	34,754	359	21,784	5,172	4	999	2,513	2,962	493	468
1976 Feb	11,510	115	7,740	1,395	1	295	732	886	109	237
Mar p*	13,153	138	8,304	1,804	1	367	834	1,316	131	258
Apr p	8,994	87	5,447	1,502	1	292	643	759	96	167
Total	33,657	340	21,491	4,701	3	954	2,209	2,961	336	662
Per cent change	-3.2	-5.3	-1.3	-9.1	-25.0	-4.5	-12.1	-	-31.8	+41.5

1. Disposals by collieries and opencast sites. 2. Public supply and railway and transport power stations. 3. Low temperature carbonisation & patent fuel plants.

4. Prior to October 1973 the figures relate to actual consumption. 5. Prior to April 1973 the figures relate to merchants' disposals to the domestic market.

6. Including miners' coal. 7. Anthracite, dry steam coal and imported naturally smokeless fuels. 8. Mainly public administration & commerce.

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

Thousand tons

	Total	Distributed					Undistributed		
		Total distributed stocks	Power stations	Coke ovens	Gas works	Other	Total undistributed stocks	Collieries	Opencast sites and central stocking grounds
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 p	30,666	20,216	17,668	2,296	2	250	10,450	8,767	1,683
1975 Feb	21,054	15,395	13,050	2,033	3	309	5,659	3,998	1,661
Mar	21,323	15,839	13,231	2,311	2	295	5,484	3,898	1,586
Apr	22,112	16,487	13,875	2,323	2	287	5,625	4,088	1,537
1976 Feb	29,274	18,420	15,776	2,403	1	240	10,854	9,351	1,503
Mar	29,361	18,436	15,738	2,457	1	240	10,925	9,541	1,384
Apr p	30,213	19,008	16,298	2,469	1	240	11,205	9,818	1,387
Absolute change:									
In latest month	+852	+572	+560	+12	-	-	+280	+277	+3
On a year ago	+8,101	+2,521	+2,423	+146	-1	-47	+5,580	+5,730	-150

1. Excluding distributed stocks held in merchants' yards, etc., mainly for the domestic market, and stocks held by the industrial sector.



TABLE 6. Colliery manpower and productivity at NCB mines

	Wage earners on colliery books <sup>1</sup>		Recruitment	Wastage	Absence percentage <sup>2</sup>			Average output per manshift <sup>3</sup>	
	Total	Underground			Total	Voluntary	Involuntary	Overall	At the face
	Thousands		Number	Per cent					
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	43.78	144.35
1973	245	193	17,402	37,961	18.0	4.1	13.9	45.00	150.00
1974	246	194	26,395	25,129	16.3	4.1	12.2	42.83	..
1975	245	194	21,338	22,455	16.2	4.0	12.2	44.92	155.85
1975 Feb	247	195	2,737	1,880	18.6	4.6	14.0	46.87	159.72
Mar*	249	196	3,434	1,923	16.2	4.4	11.8	46.65	159.28
Apr	250	197	2,923	1,768	15.4	4.6	10.8	45.84	158.44
1976Feb	244	194	1,252	1,821	19.9	4.4	15.5	46.33	158.17
Mar p*	244	194	1,442	1,934	21.6	4.3	17.3	46.20	156.45
Apr p	243	194	1,110	1,668	17.7	4.3	13.4	44.59	152.88

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 primary fuel used		Gas sent out		
	Total into system	Source <sup>1</sup>		Coal	Oil <sup>2</sup>	Total	Town gas	Natural gas for direct supply
		Indigenous	Imported					
	Million therms			Thousand tons		Million therms		
1973	10,916	10,639	277	503	2,286	11,620	2,434	9,186
1974	13,102	12,861	241	105	1,256	13,451	1,598	11,853
1975	13,692	13,367	325	9	579	13,822	752	13,070
Per cent change	+4.5	+3.9	+35.0	(-)	-53.9	+2.8	-53.0	+10.3
1975 Jan-Apr	5,445	5,335	110	5	390	5,542	437	5,105
1976 Jan-Apr p	6,002	5,837	165	3	120	6,006	143	5,863
Per cent change	+10.2	+9.4	+50.0	-40.0	-69.2	+8.4	-67.3	+14.8
1975 Feb	1,342	1,316	26	2	114	1,372	115	1,257
Mar*	1,645	1,609	36	1	114	1,669	128	1,541
Apr	1,157	1,136	21	1	66	1,169	80	1,089
Total	4,144	4,061	83	4	294	4,210	323	3,887
1976 Feb p	1,621	1,581	40	1	41	1,625	41	1,584
Mar p*	1,801	1,750	51	1	31	1,805	40	1,765
Apr p	1,197	1,157	40	1	18	1,199	24	1,175
Total	4,619	4,488	131	3	90	4,629	105	4,524
Per cent change	+11.5	+10.5	+57.8	-25.0	-69.4	+10.0	-67.5	+16.4

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

Million therms

	Total	Power <sup>1</sup> stations	Iron and steel industry	Other industries	Domestic	Other <sup>2</sup>
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 p	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
1973 4th quarter	3,322	131	107	1,181	1,561	342
1974 1st quarter	4,092	355	110	1,215	1,979	433
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 p	4,390	207	101	1,281	2,329	472
2nd quarter p	2,798	200	91	1,078	1,119	310
3rd quarter p	2,067	208	79	994	615	171
4th quarter p	3,857	243	100	1,292	1,828	394
Per cent change	+5.6	+15.2	+3.1	+2.5	+7.7	+1.8

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 <sup>5</sup> use	Electricity supplied	Total <sup>6</sup> electricity available
	Total <sup>1</sup>	Coal <sup>2</sup>	Oil <sup>2 3</sup>	Natural gas	Nuclear electricity	Hydro electricity	Total <sup>4</sup>	By steam plant				
								Nuclear	Other			
Million tons of coal or coal equivalent							TWh					
United Kingdom												
1970	107.03	76.17	20.81	0.24	7.73	1.97	228.24	21.87	199.87	17.34	210.90	215.49
1971	105.95	71.18	24.16	1.05	8.05	1.45	235.74	23.21	207.81	17.74	218.00	222.37
1972	109.37	65.25	31.25	2.48	8.89	1.47	242.75	25.30	212.20	18.05	224.70	229.23
1973	114.68	75.57	28.04	1.13	8.22	1.66	258.80	23.66	229.91	18.43	240.37	244.76
1974	110.49	65.97	28.51	3.86	10.28	1.81	250.47	29.40	215.73	18.07	232.40	236.68
1975 p	108.97	73.39	21.14	3.37	9.29	1.64	251.28	26.51	219.74	18.10	233.18	237.01
Per cent change	-1.4	+11.3	-25.9	-12.7	-9.6	-9.4	+0.3	-9.8	+1.9	+0.2	+0.3	+0.1
1975 Jan	10.14	5.59	3.00	0.36	0.86	0.33	23.28	2.44	20.03	1.59	21.69	22.10
Feb	10.44	7.08	2.04	0.22	0.86	0.23	24.22	2.44	21.17	1.68	22.54	22.90
Mar*	12.61	8.79	2.30	0.23	1.10	0.17	29.26	3.13	25.64	2.01	27.25	27.67
Total	33.19	21.46	7.34	0.81	2.82	0.73	76.76	8.01	66.84	5.28	71.48	72.67
1976 Jan	9.59	6.66	1.51	0.34	0.84	0.24	22.36	2.38	19.33	1.62	20.74	21.08
Feb	10.86	7.74	1.75	0.29	0.87	0.21	25.26	2.46	22.23	1.76	23.50	23.84
Mar p*	12.07	8.30	2.11	0.32	1.12	0.21	28.38	3.23	23.99	2.04	26.34	26.74
Total	32.52	22.70	5.37	0.95	2.83	0.66	76.00	8.07	65.55	5.42	70.58	71.66
Per cent change	-2.0	+5.8	-26.8	+17.3	+0.4	-9.6	-1.0	+0.7	-1.9	+2.7	-1.3	-1.4
England and Wales												
1970	94.35	69.61	17.47	0.24	6.79	0.13	200.42	19.23	179.18	14.91	185.51	188.59
1971	93.40	64.95	20.07	1.05	7.19	0.08	208.07	20.68	186.14	15.33	192.74	195.13
1972	95.63	58.21	26.74	2.48	8.08	0.09	212.91	23.01	187.95	15.71	197.20	200.24
1973	99.43	67.14	23.56	1.13	7.45	0.09	225.24	21.42	202.18	16.24	209.00	212.72
1974	96.09	58.63	24.00	3.86	9.43	0.12	218.85	26.93	190.43	15.90	202.95	205.55
1975 p	94.62	64.67	17.95	3.37	8.40	0.09	219.24	23.94	194.35	15.31	203.93	205.30
Per cent change	-1.5	+10.3	-25.2	-12.7	-10.9	-25.0	+0.2	-11.1	+2.1	-3.6	+0.5	-0.1
1975 Jan	8.70	4.93	2.61	0.36	0.78	0.02	20.13	2.22	17.79	1.36	18.77	19.05
Feb	9.04	6.26	1.75	0.22	0.79	0.01	21.06	2.25	18.71	1.45	19.61	19.72
Mar*	11.04	7.80	1.97	0.23	1.01	0.01	25.78	2.87	22.80	1.76	24.02	24.01
Total	28.78	18.99	6.33	0.81	2.58	0.04	66.97	7.34	59.30	4.57	62.40	62.78
1976 Jan	8.24	5.87	1.25	0.34	0.76	0.02	19.32	2.16	17.07	1.35	17.97	18.15
Feb	9.37	6.81	1.47	0.29	0.79	0.01	21.91	2.24	19.60	1.49	20.42	20.65
Mar p*	10.47	7.32	1.78	0.32	1.03	0.01	24.75	2.95	21.72	1.71	23.04	23.13
Total	28.08	20.00	4.50	0.95	2.58	0.04	65.98	7.35	58.39	4.55	61.43	61.93
Per cent change	-2.4	+5.3	-28.9	+17.3	-0.2	-16.7	-1.5	+0.1	-1.5	-0.4	-1.6	-1.4

1. Including coke. 2. Including quantities used in the production of steam for sale. 3. Including oil used in gas turbine and diesel plant and for lighting up coal fired boilers. 4. Including generation by gas turbine, diesel and hydro-electric plant. 5. Used on works and for pumping at pumped storage stations. 6. Includes net imports and purchases from outside sources mainly UKAEA and British Nuclear Fuels Ltd. The England and Wales figures include net exchanges with Scotland.

TABLE 10. Sales of electricity by the public supply system GWh

	Total	Iron and steel industry	Other industries	Domestic	Other <sup>1</sup>
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	218,335	11,292	70,927	92,499	43,617
1975 p	218,431	11,172	70,968	89,273	47,018
Per cent change	+0.0	-1.1	+0.1	-3.5	+7.8
1973 4th quarter	61,608	2,980	19,216	26,224	13,188
1974 1st quarter	59,544	2,668	15,747	30,264	10,865
2nd quarter	50,384	2,871	18,124	19,637	9,752
3rd quarter	45,261	2,727	17,495	15,726	9,313
4th quarter	63,146	3,026	19,561	26,872	13,687
1975 1st quarter p	66,100	3,105	18,644	30,427	13,924
2nd quarter p	50,413	2,734	17,238	19,880	10,561
3rd quarter p	42,121	2,409	16,213	14,263	9,236
4th quarter p	59,797	2,924	18,873	24,703	13,297
Per cent change	-5.3	-3.4	-3.5	-8.1	-2.8

1. Mainly commerce, public administration & agriculture.



# Petroleum

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

Thousand tonnes

	Crude Petroleum						Petroleum products				
	Gross <sup>2</sup> Indigenous Production	Refinery Receipts				Arrivals <sup>4,5</sup>	Shipments <sup>4,5</sup>	Arrivals <sup>4</sup>	Shipments <sup>4</sup>	Net Arrivals	Bunkers <sup>6</sup>
		Total	Indigenous <sup>2</sup>	Net arrivals	Other <sup>3</sup>						
1970	157	101,555	118	+100,973	464	102,155	1,182	20,132	17,394	+2,738	5,515
1971	212	107,031	138	+106,167	726	107,736	1,569	19,071	16,948	+2,123	5,655
1972	333	105,641	226	+104,148	1,267	107,706	3,558	20,440	15,775	+4,665	5,225
1973	373	114,032	235	+112,237	1,560	115,472	3,235	17,808	16,681	+1,127	5,499
1974	410	113,478	250	+111,418	1,810	112,822	1,404	14,256	14,396	- 140	4,759
1975 p	1,564	92,273	1,156	+ 89,842	1,275	91,366	1,524	12,449	13,664	-1,215	3,447
Per cent change	(+)	-18.7	(+)	-19.3	-29.5	-19.0	+8.6	-15.7	-5.1	(-)	-27.6
1975 Jan	46	8,933	28	+8,764	141	8,874	110	1,493	1,007	+486	309
Feb	42	7,680	24	+7,554	102	7,752	198	1,093	948	+145	318
Mar	44	6,581	25	+6,520	36	6,559	39	970	1,036	-66	284
Total	132	23,194	77	+22,838	279	23,185	347	3,556	2,991	+565	911
1976 Jan	354	7,703	372	+7,219	112	7,469	250	782	986	-204	297
Feb	434	8,089	385	+7,576	128	7,738	162	1,112	1,127	-15	281
Mar p	535	7,656	480	+7,030	146	7,134	104	1,423	1,091	+332	289
Total	1,323	23,448	1,237	+21,825	386	22,341	516	3,317	3,204	+113	867
Per cent change	(+)	+1.1	(+)	-4.4	+38.5	-3.6	+49.0	-6.7	+7.1	-80.0	-4.8

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

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

Thousand tonnes

	Through- put of crude and process oils	Refinery use		Total output of petrol- eum prod- ucts <sup>2</sup>	Gases		Naphtha (LDF)	Motor spirit	Kerosene		Gas/ diesel oil	Fuel oil	Lubri- cating oils	Bitumen
		Fuel	Losses		Butane and propane	Other petro- leum			Aviation turbine fuel	Burning oil <sup>3</sup>				
1970	101,911	6,028	1,187	94,696	1,181	370	6,442	11,347	3,171	2,682	22,514	42,858	1,323	1,917
1971	105,342	6,184	913	98,245	1,236	284	5,728	12,522	3,707	2,540	24,455	43,173	1,429	2,094
1972	106,980	6,420	1,192	99,368	1,463	369	5,728	13,632	4,180	2,649	25,536	41,002	1,333	2,004
1973	114,338	7,053	1,331	105,954	1,655	394	6,607	14,842	4,550	2,717	27,853	42,026	1,477	2,225
1974	111,217	6,946	1,211	103,060	1,602	272	6,448	14,520	4,475	2,564	27,641	40,022	1,455	2,129
1975	93,579	6,031	901	86,647	1,447	151	3,968	13,940	3,959	2,299	23,324	32,711	1,141	2,099
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	9,215	549	109	8,557	134	15	502	1,156	366	279	2,309	3,474	118	103
Feb	7,348	470	85	6,793	109	13	342	981	276	212	1,736	2,725	102	176
Mar	7,631	489	115	7,027	120	18	292	1,080	335	243	1,674	2,826	105	190
Total	24,194	1,508	309	22,377	363	46	1,136	3,217	977	734	5,719	9,025	325	469
1976 Jan	8,400	559	60	7,781	157	15	402	1,178	310	262	2,147	2,943	94	121
Feb	7,637	522	110	7,005	141	15	435	1,128	268	283	1,961	2,336	107	162
Mar p	8,241	548	82	7,611	139	16	384	1,207	362	262	2,142	2,607	124	176
Total	24,278	1,629	252	22,397	437	46	1,221	3,513	940	807	6,250	7,886	325	459
Per cent change	+0.3	+8.1	-18.6	+0.1	+20.2	-2.1	+7.5	+9.2	-3.8	+9.8	+9.3	-12.6	+0.1	-2.0

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 consumption<sup>1</sup>

Thousand tonnes

	Total <sup>2 3</sup>	Butane <sup>4</sup> and propane	Naphtha (LDF) <sup>5</sup>	Motor spirit	Kerosene				Gas/diesel oil		Fuel oil	Lubri- cating oils	Bitumen
					Aviation turbine fuel	Burning oil							
						Premier	Standard						
							Domestic	Other <sup>6</sup>					
1970	90,840	1,179	9,490	14,235	3,254	836	1,184	514	5,035	12,109	38,585	1,175	2,069
1971	91,520	1,196	7,623	14,964	3,667	713	1,369	532	5,186	12,569	39,395	1,148	2,208
1972	97,700	1,455	7,391	15,899	3,929	788	1,663	528	5,254	15,113	41,307	1,113	2,203
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	8,413	121	574	1,197	290	68	179	37	443	1,373	3,848	86	144
Feb	7,313	115	488	1,146	239	69	180	38	432	1,308	3,012	78	160
Mar	7,351	117	461	1,265	287	69	187	38	433	1,325	2,856	75	170
Total	23,077	353	1,523	3,608	816	206	546	113	1,308	4,006	9,716	239	474
1976 Jan	7,134	119	458	1,221	299	77	168	38	429	1,327	2,729	75	130
Feb	7,413	121	473	1,203	279	94	204	44	443	1,438	2,823	72	145
Mar p	8,005	131	450	1,383	308	77	207	46	503	1,511	3,038	85	189
Total	22,552	371	1,381	3,807	886	248	579	128	1,375	4,276	8,590	232	464
Per cent change	-2.3	+5.3	-9.3	+5.5	+8.6	+20.6	+6.2	+13.1	+5.2	+6.7	-11.6	-2.8	-2.2

1. Calendar months. 2. Including other petroleum gases, aviation spirit, wide-cut gasoline, industrial & white spirits, and paraffin wax. 3. Excluding refinery fuel and miscellaneous products. 4. Including very small amounts for petro-chemicals. 5. Now mainly for petrochemical feedstock. 6. Including vaporising oil.



TABLE 14. Inland deliveries of petroleum products used for energy <sup>1 2</sup>

Thousand tonnes

	Total	Power <sup>3</sup> Stations	Gas Works	Iron and steel industry	Other Industries	Transport <sup>4</sup>	Domestic	Other <sup>5</sup>
1970	81,017	12,878	4,709	5,673	21,090	25,023	3,048	8,596
1971	81,863	15,058	2,706	5,292	21,068	26,043	3,015	8,681
1972	87,788	19,039	2,249	5,044	21,899	27,152	3,485	8,920
1973	88,196	16,993	2,355	4,995	22,045	28,971	3,812	9,025
1974	81,547	17,240	1,339	4,019	19,695	27,930	3,378	7,946
1975 p	73,385	13,326	693	3,309	17,251	27,582	3,270	7,954
Per cent change	-10.0	-22.7	-48.2	-17.7	-12.4	-1.2	-3.2	+0.5
1974 Dec	7,671	2,034	129	351	1,752	2,194	386	825
1975 Jan	7,652	1,989	110	390	1,798	2,119	359	887
Feb	6,633	1,291	111	374	1,674	2,000	356	827
Total	21,956	5,314	350	1,115	5,224	6,313	1,101	2,539
1975 Dec	7,017	1,323	47	266	1,763	2,237	429	952
1976 Jan	6,441	1,053	54	262	1,736	2,090	354	892
Feb p	6,677	1,045	45	284	1,812	2,100	415	976
Total	20,135	3,421	146	812	5,311	6,427	1,198	2,820
Per cent change	-8.3	-35.6	-58.3	-27.2	+1.7	+1.8	+8.8	+11.1

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 <sup>1</sup>		Power stations <sup>2</sup> Million tonnes
	Million tonnes	Estimated days' supply <sup>3</sup>	
1975 Feb	24.5	104	0.87
Mar	22.5	103	0.85
Apr	22.0	113	0.86
1976 Feb	20.3	89	0.94
Mar p	18.8	85	0.89
Apr p	19.0	93	0.81

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

1. The amount of fuel (average grade) equivalent to 1 TWh of energy.

2. The amount of primary fuel (power station grade) to generate 1 TWh.

3. The amount of electricity generated by one million units of the fuel shown.

The Digest of UK Energy Statistics 1975 gives more detailed factors.

## SUPPLEMENTARY DATA

Value of fuel imports and exports <sup>(1)</sup>

£ 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)
1970	0.9	2.7	10.6	711.8	217.2	1.6	944.8	17.5	13.3	175.9	—	206.7
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	3,852.4	696.7	0.4	4,626.9	20.8	46.9	700.0	—	767.7
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
Per cent change	+70.2	+7.2	+71.7	-10.1	+3.1	(+)	-6.9	+73.5	+16.4	+3.3	(+)	+6.0
1974 1st quarter	11.5	2.1	2.4	854.1	160.9	0.4	1,031.4	1.8	3.4	135.3	—	140.5
2nd quarter	14.2	2.0	1.3	1,051.7	177.7	—	1,246.9	3.8	9.0	195.8	—	208.6
3rd quarter	16.3	1.8	2.1	925.7	171.7	—	1,117.6	5.6	15.7	188.1	—	209.4
4th quarter	20.1	1.3	2.3	1,020.9	186.4	—	1,231.0	9.6	18.8	180.8	—	209.2
1975 1st quarter	24.9	1.7	3.9	874.5	187.6	1.0	1,093.6	13.0	19.2	169.0	—	201.2
2nd quarter	27.0	1.8	2.5	834.8	144.0	0.1	1,010.2	8.7	13.0	151.9	0.1	173.7
3rd quarter	23.7	2.1	3.5	847.8	156.9	—	1,034.0	6.3	9.9	197.9	—	214.1
4th quarter	30.0	2.2	4.0	905.8	230.1	—	1,172.1	8.1	12.5	204.1	—	224.7
1976 1st quarter	19.7	2.3	6.7	1,096.7	243.9	—	1,369.3	6.5	11.8	222.9	—	241.2
Per cent change	-21.0	+32.6	+72.8	+25.4	+30.0	(-)	+25.2	-49.8	-38.8	+32.0	(-)	+19.9

1. The figures correspond to Section 3 of the Import and Export List and exclude trade with the Channel Islands.

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.

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