

DEPARTMENT OF ENERGY

# ENERGY TRENDS

## A Statistical Bulletin

April 1976

# Domestic Consumption 10 per cent down in final quarter

### Total energy

#### Final Users take less

During the latest three month period from December 1975 to February 1976, total inland energy consumption on a primary fuel input basis was fractionally higher than in the corresponding period of 1974/75. However, this was largely due to seasonal and temperature differences, and after adjustment for these factors consumption was about 2 per cent lower than in the same months a year earlier.

Provisional figures for energy consumption by final users on a heat supplied basis in the fourth quarter of 1975 indicate that total consumption was lower by about 7½ per cent than in the 4th quarter of 1974. Consumption of solid fuels had fallen by a quarter and of the individual fuels only gas consumption was higher than a year earlier, increasing its share of total heat supplied from 21 to 24 per cent.

The effects of the weather on consumption during this period are very difficult to assess. Although on average it was only slightly colder than a year ago, there were substantial temperature variations between individual months in each year and, moreover, the 4th quarter of 1975 was extremely dry, a condition which has uncertain effects on consumption.

Energy consumption in the domestic sector during September–December 1975 was more than 10 per cent lower than in the 4th quarter of 1974, the further decline in the solid fuel share of this market reflecting the continuing switch of domestic consumers to gas. Consumption by the iron and steel industry and by other manufacturing industries was also lower than in the 4th quarter of 1974, by 17 and 6 per cent respectively, but the decline was less marked than in earlier quarters, lending support to recent indications of an upturn in the level of industrial activity.

### Coal

#### Deep-mined output declines

Production of deep-mined coal in the three months January to March 1976 was about 7 per cent lower than in the corresponding period of last year, but opencast production during the period increased by more than 10 per cent.

Total consumption was a little higher than a year ago wholly as a result of greater demand for electricity generation. Total coal stocks rose during March with undistributed stocks at the end of the winter of almost 11 million tons – twice the level of a year ago.

### Gas

#### Domestic demand boosts sales

Following a period during which demand levelled off in the two middle quarters of 1975, gas sales in the 4th quarter of the year rose by 5½ per cent making total sales for the year over 13 thousand million therms, ie, 3½ per cent higher than in 1974. Sales to the domestic sector rose by over 500 million therms in 1975 and there was also a small increase in sales to public

administration and commercial consumers; in the industrial sectors the total offtake was 2½ per cent lower than in 1974.

### Electricity

#### Domestic use well down

Total sales of electricity in the 4th quarter of 1975 were nearly 5½ per cent lower than in the same period of 1974. The biggest drop occurred in the domestic sector where demand fell by over 8 per cent. Sales to the iron and steel industry and to other industries were lower by 3½ per cent but in each case the reductions on a year earlier were substantially less than experienced in the two previous quarters.

Electricity supplied in the three months from December 1975 to February 1976 was slightly higher than in the corresponding period a year ago, with the colder weather and some picking up in economic activity having a stimulating effect on demand.

### Petroleum

#### Lighter products in demand

Total deliveries of petroleum products during the three month period December 1975 to February 1976 were 7½ per cent lower than in the corresponding period a year earlier. Within the total however, higher deliveries were recorded for motor spirit and aviation fuel, and demand for the lighter grades of heating oil rose in response to the colder weather.

Refinery output during the same period was nearly 6½ per cent lower than last year, but reflecting demand, there was a swing towards the lighter products at the expense of fuel oil for which demand remains depressed, and output of motor spirit and gases each rose above the levels of a year ago.

#### Fuel Prices

A table of fuel prices in the industrial sector is included in *Energy Trends* for the first time this month. Updated tables will appear once every three months.

There are two sets of quarterly figures. The first set shows average prices paid for *all* purchases of each fuel during the quarter by larger industrial consumers. The second set shows, for heavy fuel oil and gas oil, the average net price realised by the main marketing companies in supply contracts that are *either new or are renewed at a changed price* during the quarter for medium sized deliveries. These latter oil prices are higher and move sooner than those in the first set which relate to larger sizes of delivery and include the “damping” effects of long term contracts made at earlier and lower price levels.

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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
1974 Dec*	35.5	12.1	16.3	5.5	1.2	0.4	21.2	7.3	9.7	3.3	0.7	0.2
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
Total	94.2	32.8	40.6	16.5	3.2	1.1	56.3	19.6	24.2	10.0	1.9	0.6
1975 Dec*	35.3	13.0	14.5	6.4	1.2	0.2	21.1	7.8	8.7	3.8	0.7	0.1
1976 Jan p	28.4	9.9	10.7	6.5	1.0	0.3	16.9	5.9	6.4	3.8	0.6	0.2
Feb p	30.6	11.5	11.7	6.2	1.0	0.2	18.3	6.9	7.0	3.7	0.6	0.1
Total	94.3	34.4	36.9	19.1	3.2	0.7	56.3	20.6	22.1	11.3	1.9	0.4
Per cent change	+0.1	+4.9	–9.0	+15.2	–0.7	–34.3	+0.1	+4.9	–9.0	+15.2	–0.7	–34.3

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

1974 Dec*	335.4	117.8	152.2	51.4	11.3	2.7	200.5	70.4	91.0	30.7	6.8	1.6
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
Average	330.7	121.5	143.9	52.0	10.8	2.5	197.7	72.6	86.0	31.1	6.5	1.5
1975 Dec*	320.4	120.1	127.2	60.2	11.7	1.2	191.5	71.8	76.0	36.0	7.0	0.7
1976 Jan p	317.7	123.2	124.5	58.0	10.2	1.8	189.9	73.6	74.4	34.7	6.1	1.1
Feb p	334.2	129.8	130.4	61.6	10.4	2.0	199.7	77.6	77.9	36.8	6.2	1.2
Average	323.8	124.0	127.4	60.0	10.8	1.6	193.5	74.1	76.1	35.8	6.5	1.0
Per cent change	–2.1	+2.1	–11.5	+15.4	—	–34.5	–2.1	+2.1	–11.5	+15.4	—	–34.5

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

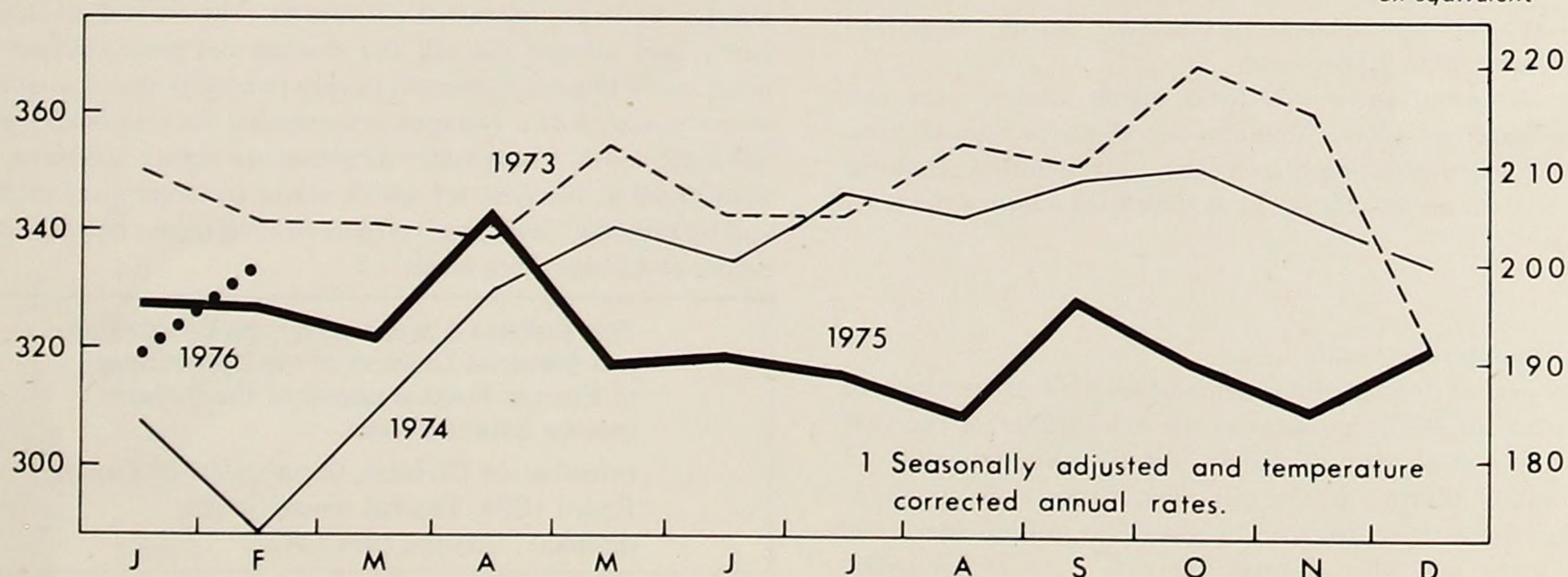




TABLE 2. Inland energy consumption: heat supplied basis

Million therms

	1974	1975	Per cent change	1973	1974				1975 p				Per <sup>1</sup> cent change
				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	336	-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
1970	141,560	144,791	134,526	7,760	-3,231	78	3,309	11,689	3,103
1971	148,592	147,081	134,322	10,498	+1,511	4,164	2,653	11,045	4,734
1972	123,124	119,927	107,836	9,815	+3,197	4,918	1,721	10,244	22,400
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	9,376	9,172	8,502	630	+204	501	297	1,208	34
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
Total	34,377	34,089	31,436	2,523	+288	1,161	873	1,321	92
1976 Jan p	8,526	8,426	7,670	658	+100	200	100	2,180	33
Feb p	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
Total	32,807	32,334	29,158	2,782	+473	803	330	2,180	250
Per cent change	-4.6	-5.1	-7.2	+10.3	+64.2	-30.8	-62.2	+65.0	(+)

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>
1970	154,407	1,886	76,017	24,940	4,212	4,084	19,304	17,882	1,990	4,092
1971	138,705	1,556	71,696	23,182	1,826	4,406	15,581	15,366	1,621	3,471
1972	120,945	1,383	65,611	20,152	566	4,475	11,478	12,569	1,756	2,955
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	120,304	1,218	73,391	18,783	10	3,999	9,532	9,844	1,609	1,918
Per cent change	+3.7	-1.5	+11.3	+3.4	-90.5	+8.4	-12.6	-16.9	-0.9	-22.2
1975 Jan	9,570	107	5,589	1,531	1	342	777	842	158	223
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
Total	34,546	369	21,464	5,125	4	1,064	2,582	2,916	513	509
1976 Jan p	9,896	85	6,660	1,384	1	284	580	618	106	178
Feb p	11,504	115	7,725	1,404	1	295	732	886	109	237
Mar p*	13,189	138	8,332	1,804	1	374	834	1,316	132	258
Total	34,589	338	22,717	4,592	3	953	2,146	2,820	347	673
Per cent change	+0.1	-8.4	+5.8	-10.4	-25.0	-10.4	-16.9	-3.3	-32.4	+32.2

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

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

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

TABLE 5. Stocks of 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 Jan	21,249	15,621	13,474	1,820	3	324	5,628	3,817	1,811
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
1976 Jan p	29,730	18,853	16,416	2,195	2	240	10,877	9,264	1,613
Feb p	29,179	18,325	15,776	2,308	1	240	10,854	9,351	1,503
Mar p	29,361	18,436	15,738	2,457	1	240	10,925	9,541	1,384
Absolute change:									
In latest month	+182	+111	-38	+149	-	-	+71	+190	-119
On a year ago	+8,038	+2,597	+2,507	+146	-1	-55	+5,441	+5,643	-202

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 Jan	246	194	1,949	1,844	18.1	4.7	13.4	45.27	155.55
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
1976 Jan	245	194	1,068	1,553	15.9	3.3	12.6	44.88	155.89
Feb p	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

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		
1970	4,342	4,023	319	4,212	4,478	6,301	4,787	1,514
1971	6,977	6,660	317	1,770	2,547	8,061	4,069	3,992
1972	10,071	9,775	296	559	2,170	10,614	3,415	7,199
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 p	13,692	13,367	325	10	579	13,821	752	13,069
Per cent change	+4.5	+3.9	+35.0	(—)	—53.9	+2.8	—53.0	+10.3
1975 Jan	1,301	1,274	27	1	96	1,332	114	1,218
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
Total	4,288	4,199	89	4	324	4,373	357	4,016
1976 Jan	1,383	1,348	35	1	30	1,377	39	1,338
Feb p	1,621	1,581	40	1	43	1,626	41	1,585
Mar p*	1,801	1,750	51	1	31	1,805	40	1,765
Total	4,805	4,679	126	3	104	4,808	120	4,688
Per cent change	+12.1	+11.4	+41.6	—25.0	—67.9	+9.9	—66.4	+16.7

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	4,091	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	+11.2	-25.9	-12.7	-9.6	-9.4	+0.3	-9.8	+1.9	+0.2	+0.3	+0.1
1974 Dec*	12.59	7.00	3.76	0.40	1.08	0.35	28.90	3.07	24.96	1.99	26.91	27.30
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
Total	33.17	19.67	8.80	0.98	2.80	0.91	76.40	7.95	66.16	5.26	71.14	72.30
1975 Dec*	12.45	8.57	2.26	0.39	1.05	0.16	28.98	2.99	25.48	2.01	26.97	27.38
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 p	10.86	7.73	1.76	0.29	0.87	0.21	25.26	2.46	22.23	1.77	23.49	23.83
Total	32.90	22.96	5.53	1.02	2.76	0.61	76.60	7.83	67.04	5.40	71.20	72.29
Per cent change	-0.8	+16.7	-37.2	+4.1	-1.4	-33.0	+0.3	-1.5	+1.3	+2.7	+0.1	(-)
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
1974 Dec*	10.80	6.16	3.23	0.40	0.99	0.02	25.03	2.80	22.09	1.71	23.32	23.44
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
Total	28.54	17.35	7.59	0.98	2.56	0.05	66.22	7.27	58.59	4.52	61.70	62.21
1975 Dec*	10.76	7.49	1.90	0.39	0.96	0.01	25.18	2.71	22.37	1.68	23.50	23.64
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 p	9.37	6.81	1.47	0.29	0.79	0.01	21.91	2.24	19.60	1.49	20.42	20.65
Total	28.37	20.17	4.62	1.02	2.51	0.04	66.41	7.11	59.04	4.52	61.89	62.44
Per cent change	-0.6	+16.3	-39.1	+4.1	-2.0	-20.0	+0.3	-2.2	+0.8	(-)	+0.3	+0.4

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
<i>Per cent change</i>	+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
<i>Per cent change</i>	-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	1,562	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
1974 Dec	41	8,657	24	+8,508	126	8,712	204	1,947	1,122	+825	344
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
Total	129	25,270	76	+24,826	369	25,338	512	4,533	3,077	+1,456	971
1975 Dec	392	7,918	344	+7,460	114	7,598	138	1,460	1,094	+366	316
1976 Jan	354	7,703	372	+7,219	112	7,469	250	781	986	−205	297
Feb p	407	8,089	385	+7,576	128	7,738	162	1,112	1,289	−177	302
Total	1,153	23,710	1,101	+22,255	354	22,805	550	3,353	3,369	−16	915
Per cent change	(+)	−6.2	(+)	−10.4	−4.1	−10.0	+7.5	−26.0	+9.5	(+)	−5.7

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 pro- ducts <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
1974 Dec	9,180	594	87	8,499	146	15	447	1,230	334	292	2,221	3,388	136	134
1975 Jan	9,215	549	108	8,558	134	15	501	1,156	366	279	2,309	3,474	119	103
Feb	7,348	470	85	6,793	109	13	342	981	276	212	1,736	2,725	102	176
Total	25,743	1,613	280	23,850	389	43	1,290	3,367	976	783	6,266	9,587	357	413
1975 Dec	8,158	544	63	7,551	142	15	375	1,216	305	248	2,097	2,797	65	144
1976 Jan	8,400	559	60	7,781	157	15	402	1,178	310	262	2,147	2,943	94	121
Feb p	7,637	522	110	7,005	141	15	435	1,128	268	283	1,961	2,336	107	162
Total	24,195	1,625	233	22,337	440	45	1,212	3,522	883	793	6,205	8,076	266	427
Per cent change	−6.0	+0.7	−16.8	−6.3	+13.1	+3.8	−6.1	+4.6	−9.5	+1.3	−1.0	−15.8	−25.3	+3.4

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
1974 Dec	8,338	121	519	1,313	255	76	198	38	432	1,358	3,766	82	124
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
Total	24,064	357	1,581	3,656	784	213	557	113	1,307	4,039	10,626	246	428
1975 Dec	7,731	117	466	1,338	279	98	212	40	437	1,428	3,039	84	128
1976 Jan	7,133	119	458	1,221	299	77	168	38	429	1,327	2,729	75	130
Feb p	7,414	116	490	1,201	273	94	204	40	438	1,467	2,805	69	144
Total	22,278	352	1,414	3,760	851	269	583	118	1,304	4,222	8,573	228	402
Per cent change	−7.4	−1.5	−10.6	+2.9	+8.5	+25.9	+4.8	+4.6	−0.2	+4.5	−19.3	−7.4	−6.0

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 Nov	7,879	1,822	87	382	1,929	2,386	407	866
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
Total	23,202	5,845	326	1,123	5,479	6,699	1,152	2,578
1975 Nov	6,352	1,096	47	270	1,658	2,169	318	794
Dec p	7,017	1,323	47	266	1,763	2,237	429	952
1976 Jan p	6,441	1,053	54	262	1,736	2,090	354	892
Total	19,810	3,472	148	798	5,157	6,496	1,101	2,638
Per cent change	-14.6	-40.6	-54.6	-28.9	-5.9	-3.0	-4.4	+2.3

1. Calendar months. 2. Excludes non-energy products and non-energy use of naphtha (LDF).

3. Public supply, railway and transport power stations. 4. Including fishing, coastal and inland shipping.

5. Mainly public administration, commerce and agriculture.

TABLE 15. Stocks of petroleum at end of month

	Held by oil companies <sup>1</sup>		Power stations <sup>2</sup>
	Million tonnes	Estimated days' supply <sup>3</sup>	Million tonnes
1975 Jan	25.0	98	0.77
Feb	24.5	104	0.87
Mar	22.5	103	0.85
1976 Jan	20.4	83	1.02
Feb p	20.3	89	0.94
Mar p	19.6	91	0.89

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

Prices of fuels used by Industry <sup>1</sup>

	Invoiced to large industrial consumers <sup>2</sup>					Realised in new and renewed medium size contracts <sup>3</sup>	
	Coal	Heavy Fuel Oil	Gas Oil	Gas	Electricity	Heavy Fuel Oil	Gas oil
	£ per ton			Pence per therm	Pence per kWh	£ per ton	
1974 1st quarter	8.5	23.6	43.2	2.64	0.825	34.7	52.0
2nd quarter	9.1	33.4	50.6	2.78	0.854	34.2	53.5
3rd quarter	9.8	32.8	51.8	3.03	0.924	33.8	53.1
4th quarter	11.8	33.4	51.6	3.44	1.095	40.7	57.2
1975 1st quarter	13.3	38.8	55.0	3.65	1.179	41.4	58.4
2nd quarter	15.1	38.2	54.2	4.15	1.178	40.9	54.6
3rd quarter	14.9	37.5	50.7	4.43	1.249	39.7	53.2
4th quarter	15.6	38.7	53.9	4.84	1.354	46.8	69.2

1. Prices for oil products include hydrocarbon oil duty.

2. Derived from the volume and value of all purchases invoiced during each quarter, by a panel of about 800 large users of fuel in manufacturing industry (excluding iron and steel).

3. Derived from prices reported by the ten main oil marketing companies and relate to average net prices realised on medium sized new contracts or contracts which are renewed at a changed price. The coverage may extend beyond manufacturing industry and may include for example larger commercial users.