

North Sea oil production begins to make significant impact

Total energy

Little change in consumption levels

Total inland energy consumption on a primary fuel input basis during the 2nd quarter of 1976 was nearly 1½ per cent lower than in the comparable period last year. The seasonally adjusted and temperature corrected series indicates, however, that the trend in consumption is marginally higher than a year ago.

Coal

Stocks increasing

Coal stocks continue to grow and at the end of July totalled over 33 million tons, 6½ million tons higher than at the same time last year. Two-thirds of the increase occurred in undistributed stocks held at collieries and opencast sites.

Gas

Hot weather decreases demand

Total gas sent out during the three-month period May to July was 1 per cent lower than in the corresponding period of last year. The decline in demand is apparent in both June and July and in view of this year's very much warmer weather, was not unexpected.

Electricity

Recent increase in demand

Total electricity supplied during the period April to June was about ¾ per cent lower than in the comparable period of 1975. In June however, electricity supplied was over 1½ per cent greater than in June last year, reflecting the increased level of economic activity.

Petroleum

Imported oil costs soar

Gross production of indigenous crude oil during the first half of 1976 was over 3½ million tonnes and with monthly output rising, North Sea oil is beginning to make a significant contribution to UK oil supplies.

The final table this month shows that the value of crude oil imports during the 2nd quarter of 1976 was over £270 million (or nearly 33 per cent) more than in the corresponding period of 1975, despite a drop of 3 per cent in the volume of arrivals. Higher prices charged by producers and the fall in the value of sterling were responsible.

CHANGE IN DEFINITION OF PRIMARY FUELS

This edition of Energy Trends reflects two changes in the definition of "Primary Fuel" which have been introduced in the *Digest of United Kingdom Energy Statistics 1976* (published on 19 August). These changes have been made in order to treat the activity of fuel processing more consistently as between fuels and to align UK practice with that of the major international organisations.

In essence the changes are:

- (a) Crude oil is now defined as a primary fuel – hitherto petroleum products delivered for use as fuel (e.g., motor spirit and fuel oil) were so regarded. Petroleum products are now treated as secondary fuels and petroleum refineries as secondary fuel producers.
- (b) Net foreign trade and the stock-changes in secondary fuels of all types (coke and other solid fuel products, petroleum products and electricity) are now treated as "primary fuel equivalents". Such flows of fuels into or out of the UK are net additions to or reductions in its available supply of energy and are in this respect "equivalent" to primary fuels. A corollary of this change is that imports and exports of electricity are now shown as electrical energy and not – as hitherto – in terms of the estimated amount of primary fuel that would be needed to generate that electricity.

These changes only affect the figures in Tables 1 and 2. The opportunity has also been taken to show in Table 2 the thermal equivalent of the main flows involved in the calculation of "Total primary fuel input". Corresponding changes will be introduced in the September issues of *Economic Trends* and the *Monthly Digest of Statistics*.

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 ¹	Petroleum ²	Natural gas	Nuclear electricity	Hydro-electricity	Total	Coal ¹	Petroleum ²	Natural gas	Nuclear electricity	Hydro-electricity
	Million tons of coal or coal equivalent						Million metric tonnes of oil or equivalent					
1973	347.9	130.8	161.6	43.6	9.9	2.0	207.9	78.2	96.6	26.0	5.9	1.2
1974	332.2	116.0	150.1	52.1	11.9	2.1	198.6	69.3	89.7	31.2	7.1	1.3
1975	319.7	118.1	134.4	54.5	10.8	1.9	191.1	70.6	80.3	32.6	6.4	1.2
Per cent change	−3.8	+1.8	−10.5	+4.7	−9.7	−7.2	−3.8	+1.8	−10.5	+4.7	−9.7	−7.2
1975 Jan-June	169.1	63.3	70.4	28.7	5.6	1.1	101.1	37.9	42.1	17.2	3.3	0.6
1976 Jan-June p	169.6	62.7	68.2	31.5	6.0	1.2	101.4	37.5	40.8	18.8	3.6	0.7
Per cent change	+0.3	−1.0	−3.2	+9.8	+7.9	+11.0	+0.3	−1.0	−3.2	+9.8	+7.9	+11.0
1975 Apr	27.2	9.8	11.6	4.8	0.9	0.1	16.2	5.8	6.9	2.9	0.5	0.1
May	23.4	9.1	9.4	4.1	0.7	0.1	14.0	5.4	5.7	2.4	0.4	0.1
June*	25.2	9.9	11.4	3.1	0.7	0.1	15.1	5.9	6.8	1.9	0.5	—
Total	75.8	28.8	32.4	12.0	2.3	0.3	45.3	17.1	19.4	7.2	1.4	0.2
1976 Apr	26.2	9.0	10.8	5.2	1.0	0.2	15.6	5.4	6.4	3.1	0.6	0.1
May	23.2	9.0	9.0	4.2	0.9	0.1	13.8	5.3	5.4	2.5	0.5	0.1
June p*	25.4	10.1	11.3	3.0	0.9	0.1	15.2	6.0	6.8	1.8	0.5	0.1
Total	74.8	28.1	31.1	12.4	2.8	0.4	44.6	16.7	18.6	7.4	1.6	0.3
Per cent change	−1.3	−2.4	−4.0	+3.3	+18.0	+72.0	−1.3	−2.4	−4.0	+3.3	+18.0	+72.0

Seasonally adjusted and temperature corrected³ (annual rates)

1975 Jan-June	327.1	123.9	137.7	53.3	10.4	1.8	195.5	74.1	82.3	31.8	6.2	1.1
1976 Jan-June p	329.2	123.6	134.6	57.4	11.3	2.3	196.7	73.8	80.5	34.3	6.7	1.4
Per cent change	+0.6	–0.3	–2.2	+7.7	+8.1	+26.6	+0.6	–0.3	–2.2	+7.7	+8.1	+26.6
1975 Apr	344.5	127.5	150.2	53.9	11.5	1.4	205.9	76.2	89.7	32.2	6.9	0.9
May	319.4	120.9	133.9	53.5	9.4	1.7	190.9	72.3	80.0	32.0	5.6	1.0
June*	319.5	117.8	138.7	51.7	9.8	1.5	190.9	70.4	82.8	30.9	5.9	0.9
Average	327.2	121.7	140.8	52.9	10.2	1.6	195.5	72.8	84.1	31.6	6.1	0.9
1976 Apr	331.9	118.4	139.7	57.9	12.8	3.1	198.4	70.8	83.5	34.6	7.6	1.9
May	323.6	121.4	133.2	54.4	12.1	2.5	193.4	72.6	79.6	32.5	7.2	1.5
June*p	328.4	124.1	140.5	50.0	11.3	2.5	196.3	74.2	84.0	29.9	6.7	1.5
Average	328.0	121.5	138.0	53.8	12.0	2.7	196.0	72.6	82.5	32.1	7.2	1.6
Per cent change	+0.3	–0.2	–1.9	+1.7	+17.2	+70.2	+0.3	–0.2	–1.9	+1.7	+17.2	+70.2

1. Only annual figures are adjusted for net foreign trade and for stock change in other solid fuels. 2. Refinery throughput of crude oil plus stock change and net foreign trade in petroleum products. 3. Only coal and petroleum are temperature corrected.

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

Million tons
coal equivalent

Million tonnes
oil equivalent

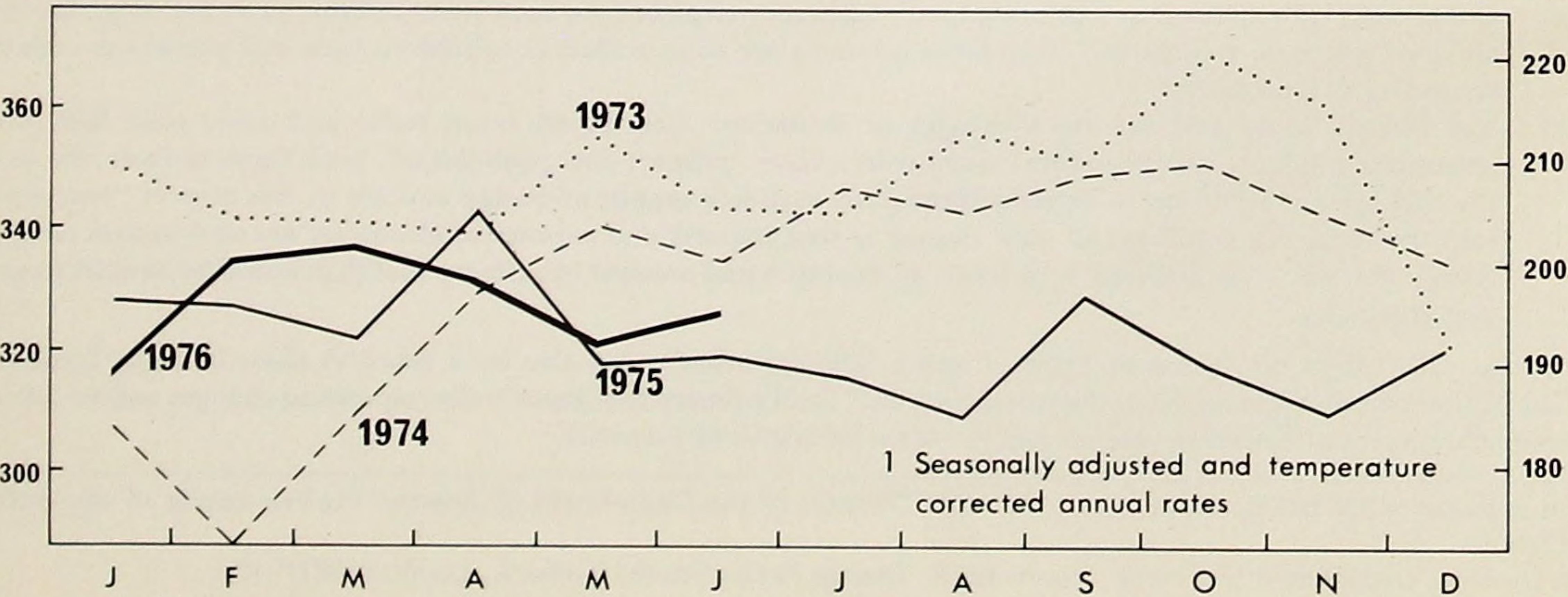


TABLE 2. Supply and use of fuels

Million therms

	1974	1975	Per cent change	1974				1975				1976p	Per ¹ cent change
				1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	
Primary fuels and equivalents													
Production of primary fuels													
Coal	27,245	31,430	+15.4	4,069	7,797	7,024	8,355	8,482	7,904	6,602	8,442	7,941	-6.4
Petroleum ²	174	665	(+)	53	39	31	51	56	57	137	415	564	(+)
Natural gas	13,040	13,578	+4.1	3,950	2,844	2,279	3,967	4,193	2,980	2,191	4,214	4,774	+13.9
Primary electricity	3,279	2,982	-9.1	1,014	741	657	867	944	617	580	841	932	-1.3
Total	43,738	48,655	+11.2	9,086	11,421	9,991	13,240	13,675	11,558	9,510	13,912	14,211	+3.9
Arrivals. Petroleum ³	54,067	44,216	-18.2	13,975	14,398	12,300	13,394	11,378	11,200	10,521	11,117	10,967	-3.6
Other	1,171	1,616	+38.0	273	286	289	323	389	417	380	430	325	-16.5
Shipments	7,628	7,243	-5.0	1,340	2,007	2,230	2,051	1,730	1,638	1,993	1,882	1,724	-0.3
Bunkers	1,954	1,418	-27.4	477	528	499	450	375	345	354	344	354	-5.6
Stock change ⁴	-119	-1,123	..	+2,229	-2,440	-617	+709	+1,282	-1,313	-1,174	+82	+1,270	..
Non energy use	5,233	4,106	-21.5	1,366	1,415	1,306	1,146	1,055	956	960	1,135	1,132	+7.3
Statistical difference ⁵	-203	-176	..	-219	+66	-41	-9	-168	+17	-13	-12	+91	..
Total primary ⁶ energy input	83,839	80,421	-4.1	22,161	19,781	17,887	24,010	23,396	18,940	15,917	22,168	23,654	+1.1
Conversion losses etc. ⁷	25,550	24,547	-3.9	6,599	5,913	5,446	7,592	6,995	5,693	4,954	6,905	6,864	-1.9
Final consumption by user:													
Iron and steel industry													
Coal	99	72	-27.3	23	34	16	26	25	18	10	19	5	-80.0
Other solid fuel ⁸	2,681	2,374	-11.5	574	716	718	673	746	575	482	571	614	-17.7
Other coal-derived fuels ⁹	374	372	-0.5	76	102	92	104	107	97	76	92	99	-7.5
Gas ¹⁰	395	371	-6.1	110	102	86	97	101	91	79	100	108	+6.9
Electricity	345	344	-0.3	81	87	84	93	94	84	75	91	100	+6.4
Petroleum	1,648	1,357	-17.7	484	366	347	451	449	334	244	330	354	-21.2
Total	5,542	4,890	-11.8	1,348	1,407	1,343	1,444	1,522	1,199	966	1,203	1,280	-15.9
Other industries													
Coal	2,795	2,458	-12.1	514	802	733	746	660	613	528	657	564	-14.5
Other solid fuel ⁸	193	164	-15.0	47	42	53	51	47	47	40	30	41	-12.8
Other coal-derived fuels ⁹	63	78	+23.8	10	18	18	17	17	23	22	16	17	-
Gas ¹⁰	4,692	4,701	+0.2	1,230	1,148	1,041	1,273	1,295	1,091	1,007	1,308	1,457	+12.5
Electricity	2,247	2,234	-0.6	503	573	553	618	589	542	510	593	619	+5.1
Petroleum	8,264	7,426	-10.1	2,451	1,879	1,567	2,367	2,140	1,770	1,299	2,217	2,269	+6.0
Total	18,254	17,061	-6.5	4,755	4,462	3,965	5,072	4,748	4,086	3,406	4,821	4,967	+4.6
Transport sector													
Coal	24	19	-20.8	7	5	4	8	6	3	3	7	7	+16.7
Electricity	92	99	+7.6	21	23	23	25	26	25	23	25	27	+3.8
Petroleum	12,295	12,143	-1.2	2,744	3,126	3,289	3,136	2,771	3,104	3,225	3,043	2,894	+4.4
Total	12,411	12,261	-1.2	2,772	3,154	3,316	3,169	2,803	3,132	3,251	3,075	2,928	+4.5
Domestic sector													
Coal	3,957	3,381	-14.6	775	1,070	952	1,160	1,013	903	699	766	932	-8.0
Other solid fuel ⁸	1,102	962	-12.7	233	290	282	297	270	231	260	201	284	+5.2
Gas ¹⁰	5,384	5,891	+9.4	1,979	1,011	696	1,698	2,329	1,119	615	1,828	2,403	+3.2
Electricity	3,161	3,035	-4.0	1,036	674	536	915	1,037	678	484	836	987	-4.8
Petroleum	1,482	1,434	-3.2	514	279	188	501	473	306	194	461	518	+9.5
Total	15,086	14,703	-2.5	4,537	3,324	2,654	4,571	5,122	3,237	2,252	4,092	5,124	-
Other final users ¹¹													
Coal	669	490	-26.8	189	142	125	213	129	123	78	160	172	+33.3
Other solid fuel ⁸	276	219	-20.7	74	72	65	65	64	49	63	43	55	-14.1
Gas ¹⁰	1,269	1,347	+6.1	433	276	173	387	472	310	171	394	570	+20.8
Electricity	1,447	1,548	+7.0	362	323	307	455	460	347	302	439	479	+4.1
Petroleum	3,335	3,355	+0.6	1,092	708	493	1,042	1,081	764	474	1,036	1,215	+12.4
Total	6,996	6,959	-0.5	2,150	1,521	1,163	2,162	2,206	1,593	1,088	2,072	2,491	+12.9
Total final users	58,289	55,874	-4.1	15,562	13,868	12,441	16,418	16,401	13,247	10,963	15,263	16,790	+2.4
Final consumption by fuel:													
Coal	7,544	6,420	-14.9	1,508	2,053	1,830	2,153	1,833	1,660	1,318	1,609	1,680	-8.3
Other solid fuel ⁸	4,252	3,719	-12.5	928	1,120	1,118	1,086	1,127	902	845	845	994	-11.8
Other coal-derived fuels ⁹	437	450	+3.0	86	120	110	121	124	120	98	108	116	-6.5
Gas ¹⁰	11,740	12,310	+4.9	3,752	2,537	1,996	3,455	4,197	2,611	1,872	3,630	4,538	+8.1
Electricity	7,292	7,260	-0.4	2,003	1,680	1,503	2,106	2,206	1,676	1,394	1,984	2,212	+0.3
Petroleum	27,024	25,715	-4.8	7,285	6,358	5,884	7,497	6,914	6,278	5,436	7,087	7,250	+4.9
Total all fuels	58,289	55,874	-4.1	15,562	13,868	12,441	16,418	16,401	13,247	10,963	15,263	16,790	+2.4

1. Per cent change on the corresponding period of the previous year. 2. Crude petroleum and natural gas liquids. 3. Crude petroleum process oils and petroleum products. 4. Stock fall (+) stock rise (-). 5. Supply greater than recorded demand (-). 6. Thermal equivalent of total inland energy consumption in Table 1. A more detailed analysis of the annual figures is shown in the Digest of United Kingdom Energy Statistics 1976 Tables 8 and 10. 7. Losses in conversion and distribution and used by fuel industries. 8. Coke and other manufactured solid fuels. 9. Coke oven gas, creosote/pitch mixtures and other liquid fuels derived from coal. 10. Natural gas supplied direct, and town gas. 11. Mainly public administration, commerce and agriculture.

Coal

TABLE 3. Supply

Thousand tons

	Net inland supply	Production			Net Imports	Imports ²	Exports ²	Tonnage lost (deep-mined) ³	
		Total ¹	Deep-mined	Opencast				Recognised holidays and rest days	Disputes
1973	128,904	129,906	118,140	9,964	-1,002	1,649	2,651	10,313	5,569
1974	110,362	108,707	98,413	9,085	+1,655	3,491	1,836	10,352	15,996
1975	129,505	126,650	115,557	10,249	+2,855	5,003	2,148	12,105	347
Per cent change	+17.3	+16.5	+17.4	+12.8	+72.5	+43.3	+17.0	+16.9	(-)
1975 Jan-July	76,030	74,630	68,489	5,842	+1,400	2,967	1,567	5,913	223
1976 Jan-July p	72,740	71,588	63,987	6,666	+1,152	1,937	785	6,767	415
Per cent change	-4.3	-4.1	-6.6	+14.1	-17.7	-34.7	-49.9	+14.4	+86.1
1975 May	11,116	10,756	9,890	826	+360	577	217	70	37
June*	11,076	10,842	9,793	999	+234	372	138	2,138	35
July	8,965	8,710	7,927	744	+255	415	160	1,611	34
Total	31,157	30,308	27,610	2,569	+849	1,364	515	3,819	106
1976 May	10,833	10,544	9,459	997	+289	387	98	46	66
June*	10,743	10,616	9,257	1,162	+127	224	97	2,116	31
July p	8,515	8,413	7,394	901	+102	276	174	1,585	35
Total	30,091	29,573	26,110	3,060	+518	887	369	3,747	132
Per cent change	-3.4	-2.4	-5.4	+19.1	-39.0	-35.0	-28.3	-1.9	+24.5

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

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

TABLE 4. Inland consumption of coal

Thousand tons

	Total inland consumption	Fuel producers					Final users ¹			
		Primary	Secondary				Colliery disposals			
		Collieries	Power stations ²	Coke ovens	Gas works	Other ³ conversion industries	Industry ⁴	Domestic ⁵		Other ⁸
								House Coal ⁶	Other ⁷	
1973	131,288	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-July	70,791	738	42,515	11,360	7	2,251	5,602	6,231	1,014	1,073
1976 Jan-July p	70,481	672	44,157	10,962	5	2,122	4,945	5,688	751	1,179
Per cent change	-0.4	-8.9	+3.9	-3.5	-28.6	-5.7	-11.7	-8.7	-25.9	+9.9
1975 May	9,116	103	5,291	1,534	1	239	774	882	133	159
June*	9,895	92	5,598	1,771	-	382	894	908	114	136
July	7,456	77	4,253	1,351	1	289	644	638	116	87
Total	26,467	272	15,142	4,656	2	910	2,312	2,428	363	382
1976 May	8,987	88	5,336	1,507	-	283	759	774	98	142
June*	10,117	91	6,041	1,862	-	346	778	768	102	129
July p	7,789	68	4,583	1,506	1	268	619	567	109	68
Total	26,893	247	15,960	4,875	1	897	2,156	2,109	309	339
Per cent change	+1.6	-9.2	+5.4	+4.7	-50.0	-1.4	-6.7	-13.1	-14.9	-11.3

1. Disposals by collieries and opencast sites. 2. Public supply and railway and transport power stations. 3. Low temperature carbonisation & patent fuel plants. 4. Prior to October 1973 the figures relate to actual consumption. 5. Prior to April 1973 the figures relate to merchants' disposals to the domestic market. 6. Including miners' coal. 7. Anthracite, dry steam coal and imported naturally smokeless fuels. 8. Mainly public administration & commerce.

TABLE 5. Stocks of coal¹ at end of period: Great Britain

Thousand tons

	Total	Distributed					Undistributed		
		Total distributed stocks	Power stations	Coke ovens	Gas works	Other	Total undistributed stocks	Collieries	Opencast sites and central stocking grounds
1970	18,729	11,627	9,575	1,434	276	342	7,102	5,266	1,836
1971	28,211	17,982	15,712	1,777	72	421	10,229	6,973	3,256
1972	29,979	19,045	16,791	1,890	50	314	10,934	7,558	3,376
1973	27,445	16,766	14,537	1,937	27	265	10,679	7,529	3,150
1974	21,462	15,577	13,414	1,822	3	338	5,885	3,946	1,939
1975	30,666	20,216	17,668	2,296	2	250	10,450	8,767	1,683
1975 May	23,785	17,600	15,054	2,264	2	280	6,185	4,654	1,531
June	25,300	18,885	16,371	2,242	2	270	6,415	4,906	1,509
July	26,768	20,169	17,662	2,209	2	296	6,599	5,135	1,464
1976 May	31,966	20,440	17,572	2,627	1	240	11,526	10,065	1,461
June	32,541	21,167	18,410	2,516	1	240	11,374	9,824	1,550
July p	33,382	22,358	19,450	2,667	1	240	11,024	9,475	1,549
Absolute change:									
In latest month	+841	+1,191	+1,040	+151	-	-	-350	-349	-1
On a year ago	+6,614	+2,189	+1,788	+458	-1	-56	+4,425	+4,340	+85

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	Number		Total	Voluntary	Involuntary	Overall	At the face
	Thousands				Per cent			Cwt.	
1970	283	221	25,109	41,581	19.8	4.5	15.3	44.10	141.80
1971	279	218	28,010	32,309	18.1	4.4	13.7	43.94	143.08
1972	266	210	13,255	26,114	16.6	3.9	12.7	43.60	144.35
1973	245	193	17,402	37,961	18.0	4.1	13.9	45.00	150.00
1974	246	194	26,436	25,133	16.3	4.1	12.2	42.83	..
1975	245	194	21,347	22,451	16.2	4.0	12.2	44.92	155.85
1975 May	250	197	1,722	1,650	14.9	3.7	11.2	46.50	163.53
June*	249	197	1,352	2,274	14.9	3.3	11.6	43.48	154.99
July	248	196	593	1,957	15.3	3.6	11.7	42.06	149.32
1976 May	243	193	1,422	1,496	15.1	3.2	11.9	45.44	156.20
June*	243	193	1,573	2,012	15.4	3.1	12.3	42.56	151.29
July p	242	192	999	1,777	16.3	3.4	12.9	40.62	144.14

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 ¹		Coal	Oil ²	Total	Town gas	Natural gas for direct supply
		Indigenous	Imported					
	Million therms			Thousand tons		Million therms		
1973	10,916	10,639	277	503	2,286	11,620	2,434	9,186
1974	13,102	12,861	241	105	1,256	13,451	1,598	11,853
1975	13,692	13,367	325	9	579	13,822	752	13,070
Per cent change	+4.5	+3.9	+35.0	(—)	—53.9	+2.8	—53.0	+10.3
1975 Jan-July	7,971	7,801	170	6	464	8,071	562	7,509
1976 Jan-July p	8,495	8,244	251	5	153	8,507	174	8,333
Per cent change	+6.6	+5.7	+47.6	—16.67	—67.0	+5.4	—69.0	+11.0
1975 May	958	942	16	1	37	971	56	915
June *	927	898	29	—	24	922	44	878
July	641	626	15	—	13	636	24	612
Total	2,526	2,466	60	1	74	2,529	124	2,405
1976 May	1,001	968	33	—	16	995	16	979
June *	897	868	29	1	9	896	11	885
July p	596	571	25	—	9	612	6	606
Total	2,494	2,407	87	1	34	2,503	33	2,470
Per cent change	—1.3	—2.4	+45.0	—7.1	—54.1	—1.0	—73.4	+2.7

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 stations ¹	Iron and steel industry	Other industries	Domestic	Other ²
1970	5,780	60	244	1,172	3,542	762
1971	7,520	263	343	2,118	3,930	866
1972	9,787	630	437	3,215	4,509	996
1973	10,729	285	396	4,150	4,815	1,083
1974	12,668	985	395	4,635	5,384	1,269
1975	13,112	858	371	4,645	5,891	1,347
Per cent change	+3.5	-12.9	-6.1	+0.2	+9.4	+6.1
1974 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	4,390	207	101	1,281	2,329	472
2nd quarter	2,798	200	91	1,078	1,119	310
3rd quarter	2,067	208	79	994	615	171
4th quarter	3,857	243	100	1,292	1,828	394
1976 1st quarter p	4,765	240	108	1,444	2,403	570
Per cent change	+8.5	+15.9	+6.9	+12.7	+3.2	+20.8

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 ⁵ use	Electricity supplied	Total ⁶ electricity available
	Total ¹	Coal ²	Oil ^{2 3}	Natural gas	Nuclear electricity	Hydro electricity	Total ⁴	By steam plant				
								Nuclear	Other			
United Kingdom												
1973	114.68	75.57	28.04	1.13	8.22	1.66	258.80	23.66	229.91	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	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-June	57.82	38.26	12.12	1.60	4.86	0.93	133.78	13.88	117.16	9.40	124.38	126.37
1976 Jan-June p	56.61	39.58	9.11	1.56	5.29	1.05	132.87	15.53	114.38	9.70	123.17	125.09
Per cent change	-2.1	+3.5	-24.8	-2.5	+8.8	+12.9	-0.7	+11.9	-2.4	+3.2	-1.0	-1.0
1975 Apr	8.73	5.91	1.72	0.21	0.81	0.08	20.21	2.30	17.62	1.42	18.79	19.06
May	7.67	5.29	1.48	0.25	0.57	0.07	17.77	1.65	15.85	1.26	16.51	16.76
June*	8.21	5.60	1.57	0.32	0.66	0.05	19.04	1.92	16.86	1.43	17.61	17.89
Total	24.61	16.80	4.77	0.78	2.04	0.20	57.02	5.87	50.33	4.11	52.91	53.71
1976 Apr	8.27	5.48	1.44	0.27	0.91	0.17	19.56	2.65	16.43	1.44	18.12	18.43
May	7.59	5.34	1.22	0.17	0.76	0.10	17.86	2.25	15.30	1.34	16.52	16.81
June* p	8.20	6.04	1.07	0.18	0.79	0.12	19.39	2.55	16.49	1.49	17.90	18.15
Total	24.06	16.86	3.73	0.62	2.46	0.39	56.81	7.45	48.22	4.27	52.54	53.39
Per cent change	-2.2	+0.4	-21.8	-20.5	+20.6	+95.0	-0.4	+26.9	-4.2	+3.9	-0.7	-0.6
England and Wales												
1973	99.43	67.14	23.56	1.13	7.45	0.09	225.24	21.42	202.18	16.24	209.00	212.72
1974	96.09	58.63	24.00	3.86	9.43	0.12	218.85	26.93	190.43	15.90	202.95	205.55
1975	94.62	64.67	17.95	3.37	8.40	0.09	219.24	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-June	50.14	33.65	10.40	1.60	4.39	0.05	116.69	12.53	103.58	8.07	108.62	109.31
1976 Jan-June p	48.99	34.94	7.62	1.56	4.80	0.05	115.50	13.87	101.25	8.14	107.36	108.14
Per cent change	-2.3	+3.8	-26.7	-2.5	+9.3	-14.8	-1.0	+10.7	-2.2	+0.9	-1.2	-1.1
1975 Apr	7.57	5.14	1.48	0.21	0.73	0.01	17.61	2.09	15.44	1.22	16.39	16.49
May	6.67	4.64	1.27	0.25	0.50	—	15.52	1.44	14.00	1.08	14.44	14.56
June*	7.11	4.88	1.33	0.32	0.57	—	16.59	1.66	14.85	1.20	15.39	15.48
Total	21.35	14.66	4.08	0.78	1.80	0.01	49.72	5.19	44.29	3.50	46.22	46.53
1976 Apr	7.17	4.83	1.22	0.27	0.84	0.01	17.04	2.38	14.60	1.22	15.82	15.92
May	6.58	4.69	1.03	0.17	0.69	—	15.58	2.02	13.53	1.14	14.44	14.56
June* p	7.17	5.42	0.87	0.18	0.70	—	16.91	2.13	14.74	1.25	15.66	15.73
Total	20.92	14.94	3.12	0.62	2.23	0.01	49.53	6.53	42.87	3.61	45.92	46.21
Per cent change	-2.0	+1.9	-23.5	-20.5	+23.9	-8.3	-0.4	+25.8	-3.2	+3.1	-0.6	-0.7

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

TABLE 10. Sales of electricity by the public supply system

GWh

	Total	Iron and steel industry	Other industries	Domestic	Other ¹
1970	197,751	12,004	67,573	77,038	41,136
1971	203,433	10,837	69,337	80,674	42,585
1972	210,417	10,774	68,967	86,889	43,787
1973	225,267	11,646	75,327	91,299	46,995
1974	218,552	11,292	70,967	92,626	43,667
1975	217,765	11,164	70,916	88,938	46,747
Per cent change	-0.4	-1.1	-0.1	-4.0	+7.1
1974 1st quarter	59,654	2,668	15,755	30,356	10,875
2nd quarter	50,594	2,871	18,169	19,759	9,795
3rd quarter	45,295	2,727	17,522	15,707	9,339
4th quarter	63,009	3,026	19,521	26,804	13,658
1975 1st quarter p	65,993	3,103	18,643	30,389	13,858
2nd quarter p	50,309	2,732	17,225	19,855	10,497
3rd quarter p	42,009	2,407	16,215	14,194	9,193
4th quarter p	59,454	2,922	18,833	24,500	13,199
1976 1st quarter p	66,099	3,199	19,578	28,906	14,416
Per cent change	+0.2	+3.1	+5.0	-4.9	+4.0

1. Mainly commerce, public administration & agriculture

Petroleum

TABLE 11. Production, arrivals and shipments¹

Thousand tonnes

	Crude Petroleum						Petroleum products				
	Gross ² Indigenous Production	Refinery Receipts				Arrivals ^{4,5}	Shipments ^{4,5}	Arrivals ⁴	Shipments ⁴	Net Arrivals	Bunkers ⁶
		Total	Indigenous ²	Net arrivals	Other ³						
1973	373	114,032	235	+112,237	1,560	115,472	3,235	17,808	16,681	+1,127	5,499
1974	410	113,478	250	+111,418	1,810	112,822	1,404	14,256	14,396	-140	4,759
1975	1,564	92,273	1,156	+ 89,842	1,275	91,366	1,524	12,461	13,664	-1,203	3,444
Per cent change	(+)	-18.7	(+)	-19.3	-29.5	-19.0	+8.6	-12.6	-5.1	(+)	-27.6
1975 Jan-June	267	46,888	159	+ 46,151	578	46,776	625	6,280	6,130	+150	1,746
1976 Jan-June p	3,675	48,202	3,546	+ 44,010	646	45,176	1,166	6,079	7,048	-969	1,755
Per cent change	(+)	+2.8	(+)	-4.6	+11.8	-3.4	+86.4	-3.2	(-)	(-)	+0.5
1975 Apr	41	7,763	25	+ 7,662	76	7,685	23	1,137	873	+264	298
May	35	7,780	24	+ 7,648	108	7,732	84	699	1,192	-493	287
June	60	8,150	32	+ 8,003	115	8,174	171	887	1,074	-187	250
Total	136	23,693	81	+ 23,313	299	23,591	278	2,723	3,139	-416	835
1976 Apr p	644	8,495	619	+ 7,760	116	7,947	187	925	1,353	-428	272
May p	766	8,494	769	+ 7,619	106	7,890	271	984	1,266	-282	350
June p	942	7,767	921	+ 6,808	38	6,999	191	805	1,225	-420	270
Total	2,352	24,756	2,309	+ 22,187	260	22,836	649	2,714	3,844	-1,130	892
Per cent change	(+)	+4.5	(+)	-4.8	-13.0	-3.2	(+)	-0.3	+14.1	(+)	+6.8

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 products¹

Thousand tonnes

	Through- put of crude and process oils	Refinery use		Total output of petrol- eum prod- ucts ²	Gases		Naphtha (LDF)	Motor spirit	Kerosene		Gas/ diesel oil	Fuel oil	Lubri- cating oils	Bitumen
		Fuel	Losses		Butane and propane	Other petro- leum			Aviation turbine fuel	Burning oil ³				
1973	114,338	7,053	1,331	105,954	1,655	394	6,607	14,842	4,550	2,717	27,853	42,026	1,477	2,225
1974	111,217	6,946	1,211	103,060	1,602	272	6,448	14,520	4,475	2,564	27,641	40,022	1,455	2,129
1975	93,579	6,031	901	86,647	1,447	151	3,968	13,940	3,959	2,299	23,324	32,711	1,141	2,099
Per cent change	-15.9	-13.2	-25.6	-15.9	-9.7	-44.4	-38.5	-4.0	-11.5	-10.4	-15.6	-18.3	-21.6	-1.4
1975 Jan-June	47,303	3,039	450	43,814	761	78	1,985	6,956	1,941	1,217	11,579	16,902	585	1,039
1976 Jan-June p	48,574	3,172	555	44,846	799	79	2,310	7,312	1,979	1,311	12,388	15,953	615	993
Per cent change	+2.7	+4.4	+23.3	+2.4	+5.0	+1.3	+16.4	+5.1	+2.0	+7.7	+7.0	-5.6	+5.1	-4.4
1975 Apr	7,527	495	56	6,976	137	13	327	1,168	291	187	1,786	2,671	101	163
May	8,100	516	70	7,514	138	9	308	1,304	353	162	2,085	2,729	90	204
June	7,482	521	15	6,946	124	9	216	1,268	320	134	1,989	2,477	69	203
Total	23,109	1,532	141	21,436	399	31	851	3,740	964	483	5,940	7,877	260	570
1976 Apr	8,291	535	74	7,682	137	11	373	1,232	333	220	2,132	2,784	104	158
May	8,051	503	118	7,430	119	10	311	1,272	341	139	2,082	2,677	87	196
June p	7,953	506	111	7,337	106	12	405	1,294	365	146	1,923	2,607	99	180
Total	24,295	1,544	303	22,449	362	33	1,089	3,798	1,039	505	6,137	8,068	290	534
Per cent change	+5.1	+0.8	(+)	+4.7	-9.3	+6.5	+28.0	+1.6	+7.8	+4.6	+3.3	+2.4	+11.5	-6.3

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

TABLE 13. Deliveries of petroleum products for inland consumption¹

Thousand tonnes

	Total ^{2, 3}	Butane ⁴ and propane	Naphtha (LDF) ⁵	Motor spirit	Kerosene				Gas/diesel oil		Fuel oil	Lubri- cating oils	Bitumen
					Aviation turbine fuel	Burning oil							
						Premier	Standard						
							Domestic	Other ⁶					
1973	99,344	1,600	8,373	16,927	4,202	778	1,931	501	5,658	15,100	39,447	1,185	2,458
1974	92,342	1,414	7,700	16,484	3,690	603	1,770	436	5,518	13,581	36,810	1,045	2,241
1975	81,667	1,275	5,116	16,125	3,834	538	1,707	400	5,414	13,050	30,470	992	2,089
Per cent change	-11.6	-9.9	-33.6	-2.2	+3.9	-10.8	-3.5	-8.2	-1.9	-3.9	-17.4	-5.1	-6.7
1975 Jan-June	42,694	672	2,622	7,743	1,797	292	929	207	2,687	7,009	16,872	489	1,062
1976 Jan-June p	41,423	680	2,711	8,108	1,904	316	914	220	2,768	7,049	14,906	485	977
Per cent change	-3.0	+1.2	+3.4	+4.7	+5.9	+8.3	-1.6	+6.4	+3.0	+0.6	-11.7	-0.8	-8.0
1975 Apr	7,505	125	379	1,364	300	60	196	40	480	1,332	2,905	87	183
May	6,294	101	367	1,418	334	16	103	28	453	912	2,244	83	188
June	5,818	92	352	1,353	347	10	85	24	447	759	2,007	80	217
Total	19,617	318	1,098	4,135	981	86	384	92	1,380	3,003	7,156	250	588
1976 Apr	7,052	111	509	1,461	306	43	153	37	478	1,175	2,479	84	154
May	6,021	102	397	1,363	350	17	94	29	445	870	2,052	82	169
June p	5,835	98	404	1,475	362	9	85	25	471	739	1,832	86	189
Total	18,908	311	1,310	4,299	1,018	69	332	91	1,394	2,784	6,363	252	512
Per cent change	-3.6	-2.7	+19.2	+4.0	+3.7	-20.9	-13.6	-2.1	+1.1	-7.3	-11.1	+0.8	-12.8

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

TABLE 14. Inland deliveries of petroleum products used for energy^{1, 2}

Thousand tonnes

	Total	Power ³ Stations	Gas Works	Iron and steel industry	Other Industries	Transport ⁴	Domestic	Other ⁵
1973	88,196	16,993	2,355	4,995	22,045	28,971	3,812	9,025
1974	81,547	17,240	1,339	4,019	19,695	27,930	3,378	7,946
1975	73,385	13,345	693	3,309	17,251	27,582	3,270	7,935
Per cent change	-10.0	-22.6	-48.2	-17.7	-12.4	-1.2	-3.2	-0.1
1975 Jan-May	33,400	6,629	408	1,680	8,093	11,030	1,371	4,189
1976 Jan-May p	31,919	4,912	208	1,378	8,246	11,335	1,729	4,111
Per cent change	-4.4	-25.9	-49.1	-18.0	+1.9	+2.8	+26.1	-1.9
1975 Mar	6,653	1,185	86	333	1,656	2,179	366	848
Apr	6,817	1,232	59	332	1,674	2,340	104	1,076
May	5,645	932	42	251	1,291	2,392	186	551
Total	19,115	3,349	187	916	4,621	6,911	656	2,475
1976 Mar	7,180	1,151	42	317	1,859	2,379	411	1,021
Apr	6,288	920	50	277	1,545	2,433	377	686
May p	5,333	743	17	238	1,294	2,333	172	536
Total	18,801	2,814	109	832	4,698	7,145	960	2,243
Per cent change	-1.6	-16.0	-41.7	-9.2	+1.7	+3.4	+46.3	-9.4

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

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

5. Mainly public administration, commerce and agriculture.

TABLE 15. Stocks of petroleum at end of month

	Held by oil companies ¹		Power stations ²
	Million tonnes	Estimated days' supply ³	Million tonnes
1975 May	21.8	115	0.76
June	23.0	115	0.87
July	23.5	110	0.93
1976 May	19.9	100	0.82
June	20.3	99	0.89
July p	20.9	94	0.99

1. Stocks of petroleum products plus the product equivalent of crude and process oils held at refineries, and products in the wholesale distribution system. 2. Fuel oil held at main oil burning stations in Great Britain.

3. Latest three months calculated on forecast deliveries for the ensuing months. Figures for earlier period calculated on actual deliveries.

APPROXIMATE CONVERSION FACTORS

(last digit rounded to nought or five)

To convert from one fuel to another, multiply by the factor shown

To \ From	Million tons coal equiv.	Million tonnes oil equiv.	Million therms	TWh Electrical energy	TWh Electricity generated
Million tons coal equivalent	1	1.65	0.00390	0.135 ¹	0.500 ²
Million tonnes oil equivalent	0.600	1	0.00235	0.0800 ¹	0.280 ²
Million therms	255	425	1	34.0	115
TWh Electrical energy	7.45	12.5	0.0295	1	..
TWh Electricity generated	2.00 ³	3.60 ³	0.00880 ³	..	1

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

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

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

The *Digest of UK Energy Statistics 1976* gives more detailed factors.

SUPPLEMENTARY DATA

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)
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 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
2nd quarter	25.6	1.9	4.4	1,107.3	247.8	—	1,318.3	6.0	11.6	247.2	0.3	265.1
Per cent change	-5.5	+5.4	+76.4	+32.6	+72.1	(-)	+30.5	-31.3	-11.0	+62.7	(+)	+52.6

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.