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DEPARTMENT OF ENERGY

ENERGY TRENDS

A Statistical Bulletin

October 1976

Big drop in domestic consumption this year

NATIONAL INSTITUTE OF ECONOMIC & SOCIAL RESEARCH - 8 NOV 1976

Total Energy

Second Quarter figures

Total home production of primary fuels during the 2nd quarter of 1976, measured in thermal equivalent, was over 8 per cent higher than in the corresponding period of 1975. The major part of the increase was attributable to North Sea oil but production of primary electricity (nuclear and hydro), which increased by over a quarter, also made a contribution. Net imports of energy (mainly crude oil) were however lower than a year ago. Energy consumption by final users on a heat supplied basis was almost 1 per cent lower in the 2nd quarter of 1975.

Consumption in the domestic sector (which is much more sensitive to climatic conditions than other sectors particularly at the beginning and end of the heating season) fell by more than a tenth compared with last year. Since the spring, temperatures have been generally higher this year than in 1975. This factor, as well as the introduction of higher fuel prices in April 1976 and continuing economies by consumers, contributed to the substantial reduction in consumption.

Consumption in the iron and steel industry was nearly 12 per cent higher, a reflection mainly of the very low level of activity in the industry last year. Industries other than iron and steel consumed about 1 per cent more energy in total, increases in gas and electricity being offset by lower use of solid fuels and petroleum.

During the latest three-month period June to August, total inland energy consumption on a primary fuel input basis was 3 per cent higher than in the corresponding period of 1975, each primary fuel contributing to the increase. The seasonally adjusted and temperature corrected series indicates a rather greater rise in consumption, nearly 4 per cent, reflecting the warm weather this year.

Coal

Production down

During the first nine months of 1976, output of deep-mined coal was almost 6 million tons lower than in the comparable period of last year, a fall of nearly 7 per cent. This decline in output was to some extent offset by an increase of 17½ per cent in opencast output which helped to raise total production to within 3½ million tons of last year's figure.

Distributed stocks of coal, mainly at power stations, rose by nearly ¾ million tons during September to a total of over 23 million tons at the start of the heating season. Undistributed stocks at 10½ million tons fell marginally during the month but were still nearly 2½ million tons greater than a year ago.

Gas

Small increase in total sales

Total sales of gas in the 2nd quarter of 1976 were about 2½ per cent higher than in the corresponding period of 1975. The iron and steel industry increased its offtake by about 23 per cent and other industries by over 13 per cent. Sales to commercial and other non-industrial consumers rose by 3 per cent but in contrast, sales to the domestic sector, influenced by the warmer weather, fell about 5½ per cent below last year's level.

Electricity

Increased demand from industry

Total sales of electricity during the 2nd quarter of 1976 were about 2½ per cent lower than in the corresponding quarter of 1975, the decline being wholly attributable to the fall of 12 per cent in sales to domestic consumers. Sales to the iron and steel industry rose by 12 per cent and to other industries by over 3½ per cent. The latter increase reflects the trend in industrial output which rose to a similar extent during that period.

Total electricity supplied during the three month period June to August was nearly 3 per cent higher than in the corresponding period of last year. The rising trend in total demand has continued since May despite the very warm weather and probably indicates sustained higher demand by industry.

The final table in *Energy Trends* gives details of electricity generated outside the public supply system, mainly by manufacturing industry. Generation within nearly all industries in the 2nd quarter of 1976 was higher than a year ago, adding weight to other indications of higher industrial demand for electricity. However, as explained in June *Energy Trends*, from the 1st quarter of 1976 the coverage of this table has been improved and earlier periods are not precisely comparable.

Petroleum

Motor spirit in greater demand

Total deliveries of products during the latest three month period, June to August, were 2 per cent higher than in the corresponding period of last year. The demand for motor spirit may have been influenced by the good summer. Compared with last year, deliveries rose by 5½ per cent. Other transport fuels, DERV and aviation turbine fuel registered increases of about 4½ per cent each. Fuel oil deliveries during the period were nearly 2½ per cent down on 1975 but rose well above last year's level in August, only the second month-on-month increase this year.

After faltering in July, gross production of North Sea crude oil continued to expand and in August passed the million tonnes a month mark for the first time.

This Bulletin is prepared by the Economics and Statistics Division of the Department of Energy. Further copies of the Bulletin may be obtained from:

Information Division, Department of Energy, Room 1674, Thames House South, Millbank, London SW1P 4QJ.

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* and on the first page of the August issue. Extra copies of that Supplement may be obtained from the Department of Energy.

Symbols used in the tables

. .	not available.
–	nil or less than half the final digit shown.
*	five-week period.
p	provisional.

Total energy

TABLE 1. **Inland energy consumption: primary fuel input basis**

	Total	Coal[1]	Petroleum[2]	Natural gas	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 oil equivalent*					
1973	347.9	130.8	161.6	43.6	9.9	2.0	207.9	78.2	96.6	26.0	5.9	1.2
1974	332.2	116.0	150.1	52.1	11.9	2.1	198.6	69.3	89.7	31.2	7.1	1.3
1975	319.7	118.1	134.4	54.5	10.8	1.9	191.1	70.6	80.3	32.6	6.4	1.2
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-Aug	206.1	77.5	86.4	34.1	6.9	1.2	123.2	46.3	51.7	20.4	4.1	0.7
1976 Jan-Aug p	208.1	77.3	84.5	37.1	7.9	1.3	124.4	46.2	50.5	22.2	4.7	0.8
Per cent change	*+1.0*	*–0.3*	*–2.2*	*+8.9*	*+15.2*	*+5.9*	*+1.0*	*–0.3*	*–2.2*	*+8.9*	*+15.2*	*+5.9*
1975 June*	25.2	9.9	11.4	3.1	0.7	0.1	15.0	5.9	6.8	1.8	0.5	–
July	19.2	7.4	8.3	2.8	0.6	0.1	11.5	4.5	5.0	1.6	0.4	–
Aug	17.8	6.7	7.7	2.6	0.7	0.1	10.6	4.0	4.5	1.6	0.4	0.1
Total	62.2	24.0	27.4	8.5	2.0	0.3	37.1	14.4	16.3	5.0	1.3	0.1
1976 June*	25.7	10.1	11.4	3.1	1.0	0.1	15.3	6.0	6.8	1.8	0.6	0.1
July	19.7	7.7	8.4	2.7	0.8	0.1	11.8	4.6	5.1	1.6	0.5	–
Aug p	18.6	6.8	7.9	2.9	0.9	0.1	11.1	4.1	4.7	1.7	0.6	–
Total	64.0	24.6	27.7	8.7	2.7	0.3	38.2	14.7	16.6	5.1	1.7	0.1
Per cent change	*+3.0*	*+2.7*	*+1.0*	*+2.0*	*+35.7*	*+5.4*	*+3.0*	*+2.7*	*+1.0*	*+2.0*	*+35.7*	*+5.4*
	Seasonally adjusted and temperature corrected[3] (annual rates)											
1975 Jan-Aug	324.2	122.5	136.7	52.7	10.4	1.9	193.8	73.3	81.7	31.5	6.2	1.1
1976 Jan-Aug p	328.9	123.3	135.1	56.3	12.1	2.1	196.6	73.7	80.7	33.7	7.2	1.3
Per cent change	*+1.5*	*+0.6*	*–1.2*	*+6.9*	*+16.9*	*+13.7*	*+1.5*	*+0.6*	*–1.2*	*+6.9*	*+16.9*	*+13.7*
1975 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
July	317.9	117.3	137.4	51.6	9.9	1.7	190.0	70.1	82.1	30.9	5.9	1.0
Aug	311.6	118.9	130.0	49.9	10.4	2.4	186.2	71.1	77.7	29.8	6.2	1.4
Average	316.5	118.0	135.6	51.1	10.0	1.8	189.2	70.5	81.1	30.5	6.0	1.1
1976 June*	331.4	124.4	141.1	51.1	12.4	2.4	198.1	74.4	84.3	30.6	7.4	1.4
July	332.9	128.2	139.6	50.2	13.4	1.5	199.0	76.7	83.4	30.0	8.0	0.9
Aug p	320.3	116.0	133.7	53.9	14.9	1.8	191.4	69.3	79.9	32.2	8.9	1.1
Average	328.4	123.0	138.3	51.7	13.5	1.9	196.3	73.5	82.7	30.9	8.0	1.2
Per cent change	*+3.8*	*+4.3*	*+2.0*	*+1.2*	*+34.6*	*+5.9*	*+3.8*	*+4.3*	*+2.0*	*+1.2*	*+34.6*	*+5.9*

1. Consumption by fuel producers plus colliery disposals to final users, plus (for annual figures only) net foreign trade and stock change in other solid fuels. 2. Refinery throughput of crude oil plus net foreign trade and stock change in petroleum products less deliveries of non energy products. 3. Only coal and petroleum are temperature corrected.

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

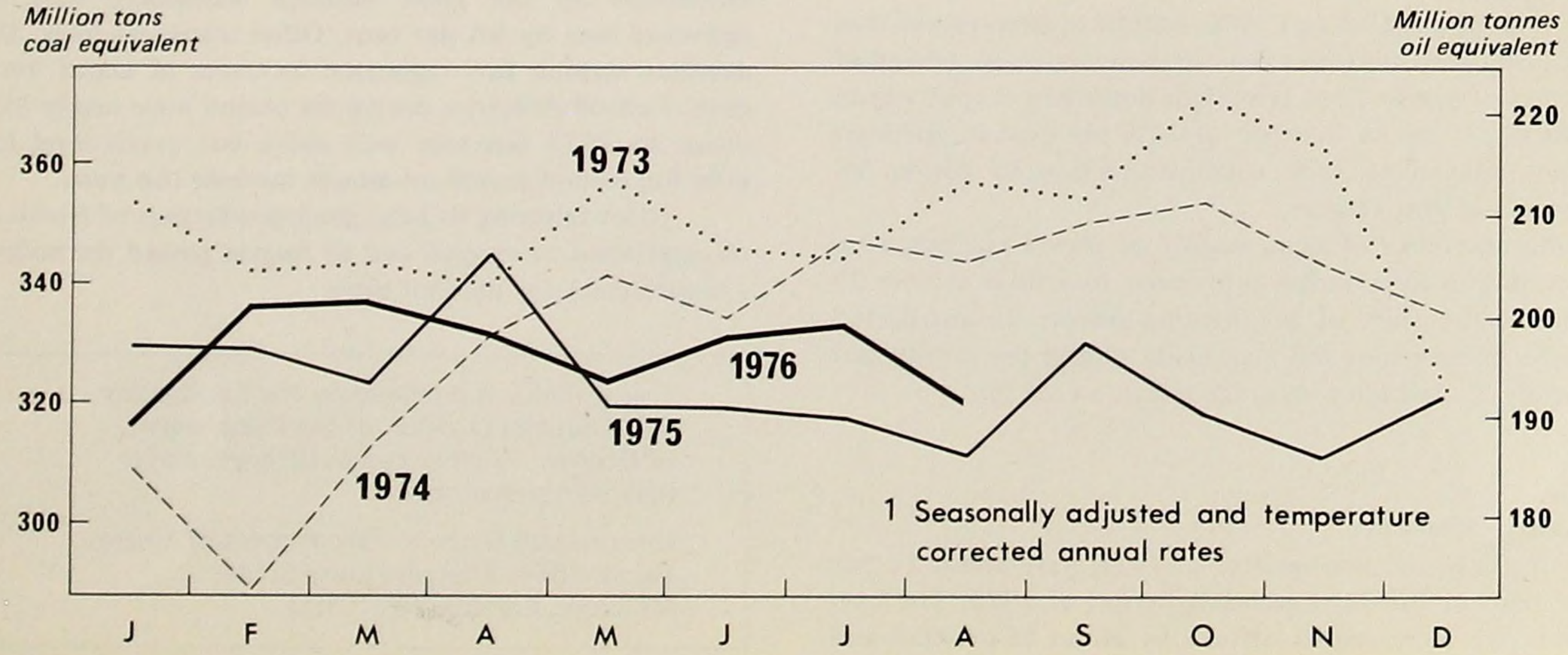

TABLE 2. Supply and use of fuels

Million therms

	1974	1975	Per cent change	1974 2nd quarter	1974 3rd quarter	1974 4th quarter	1975 1st quarter	1975 2nd quarter	1975 3rd quarter	1975 4th quarter	1976p 1st quarter	1976p 2nd quarter	Per[1] cent change
PRIMARY FUELS AND EQUIVALENTS:													
Production of primary fuels													
Coal	27,245	31,430	+15.4	7,797	7,024	8,355	8,482	7,904	6,602	8,442	7,941	7,672	−2.9
Petroleum[2]	174	665	(+)	39	31	51	56	57	137	415	564	1,003	(+)
Natural gas	13,040	13,578	+4.1	2,844	2,279	3,967	4,193	2,980	2,191	4,214	4,772	3,065	+2.9
Primary electricity	3,279	2,982	−9.1	741	657	867	944	617	580	841	925	779	+26.3
Total	43,738	48,655	+11.2	11,421	9,991	13,240	13,675	11,558	9,510	13,912	14,202	12,519	+8.3
Arrivals. Petroleum[3]	54,067	44,216	−18.2	14,398	12,300	13,394	11,378	11,200	10,521	11,117	10,967	10,924	−2.5
Other	1,171	1,616	+38.0	286	289	323	389	417	380	430	326	311	−25.4
Shipments	7,628	7,243	−5.0	2,007	2,230	2,051	1,730	1,638	1,993	1,882	1,724	2,044	+24.8
Bunkers	1,954	1,418	−27.4	528	499	450	375	345	354	344	372	346	+0.3
Stock change[4]	−119	−1,123	. .	−2,440	−617	+709	+1,282	−1,313	−1,174	+82	+1,325	−1,486	. .
Non energy use	5,233	4,106	−21.5	1,415	1,306	1,146	1,055	956	960	1,135	1,132	1,111	+16.2
Statistical difference[5]	−203	−176	. .	+66	−41	−9	−168	+17	−13	−12	+109	−2	. .
Total primary[6] energy input	83,839	80,421	−4.1	19,781	17,887	24,010	23,396	18,940	15,917	22,168	23,701	18,765	−0.9
Conversion losses etc.[7]	25,550	24,547	−3.9	5,913	5,446	7,592	6,995	5,693	4,954	6,905	6,911	5,637	−1.0
FINAL CONSUMPTION BY USER:													
Iron and steel industry													
Coal	99	72	−27.3	34	16	26	25	18	10	19	23	15	−16.7
Other solid fuel[8]	2,681	2,374	−11.5	716	718	673	746	575	482	571	617	703	+22.3
Other coal-derived fuels[9]	374	372	−0.5	102	92	104	107	97	76	92	98	109	+12.4
Gas[10]	395	371	−6.1	102	86	97	101	91	79	100	108	112	+23.1
Electricity	345	344	−0.3	87	84	93	94	84	75	91	100	95	+13.1
Petroleum	1,648	1,357	−17.7	366	347	451	449	334	244	330	354	306	−8.4
Total	5,542	4,890	−11.8	1,407	1,343	1,444	1,522	1,199	966	1,203	1,300	1,340	+11.8
Other industries													
Coal	2,795	2,458	−12.1	802	733	746	660	613	528	657	547	564	−8.0
Other solid fuel[8]	193	164	−15.0	42	53	51	47	47	40	30	38	23	−51.1
Other coal-derived fuels[9]	63	78	+23.8	18	18	17	17	23	22	16	18	27	+17.4
Gas[10]	4,692	4,701	+0.2	1,148	1,041	1,273	1,295	1,091	1,007	1,308	1,457	1,236	+13.3
Electricity	2,247	2,234	−0.6	573	553	618	589	542	510	593	619	563	+3.9
Petroleum	8,264	7,426	−10.1	1,879	1,567	2,367	2,140	1,770	1,299	2,217	2,268	1,711	−3.3
Total	18,254	17,061	−6.5	4,462	3,965	5,072	4,748	4,086	3,406	4,821	4,947	4,124	+0.9
Transport sector													
Coal	24	19	−20.8	5	4	8	6	3	3	7	7	4	+33.3
Electricity	92	99	+7.6	23	23	25	26	25	23	25	27	24	−4.0
Petroleum	12,295	12,143	−1.2	3,126	3,289	3,136	2,771	3,104	3,225	3,043	2,894	3,201	+3.1
Total	12,411	12,261	−1.2	3,154	3,316	3,169	2,803	3,132	3,251	3,075	2,928	3,229	+3.1
Domestic sector													
Coal	3,957	3,381	−14.6	1,070	952	1,160	1,013	903	699	766	932	764	−15.4
Other solid fuel[8]	1,102	962	−12.7	290	282	297	270	231	260	201	284	202	−12.6
Gas[10]	5,384	5,891	+9.4	1,011	696	1,698	2,329	1,119	615	1,828	2,403	1,055	−5.7
Electricity	3,161	3,035	−4.0	674	536	915	1,037	678	484	836	987	596	−12.0
Petroleum	1,482	1,434	−3.2	279	188	501	473	306	194	461	518	268	−12.4
Total	15,086	14,703	−2.5	3,324	2,654	4,571	5,122	3,237	2,252	4,092	5,124	2,885	−10.9
Other final users[11]													
Coal	669	490	−26.8	142	125	213	129	123	78	160	172	112	−8.9
Other solid fuel[8]	276	219	−20.7	72	65	65	64	49	63	43	55	47	−4.1
Gas[10]	1,269	1,347	+6.1	276	173	387	472	310	171	394	570	319	+2.9
Electricity	1,447	1,548	+7.0	323	307	455	460	347	302	439	479	350	+0.9
Petroleum	3,335	3,355	+0.6	708	493	1,042	1,081	764	474	1,036	1,215	722	−5.5
Total	6,996	6,959	−0.5	1,521	1,163	2,162	2,206	1,593	1,088	2,072	2,491	1,550	−2.7
Total final users	58,289	55,874	−4.1	13,868	12,441	16,418	16,401	13,247	10,963	15,263	16,790	13,128	−0.9
FINAL CONSUMPTION BY FUEL:													
Coal	7,544	6,420	−14.9	2,053	1,830	2,153	1,833	1,660	1,318	1,609	1,681	1,459	−12.1
Other solid fuel[8]	4,252	3,719	−12.5	1,120	1,118	1,086	1,127	902	845	845	994	975	+8.1
Other coal-derived fuels[9]	437	450	+3.0	120	110	121	124	120	98	108	116	136	+13.3
Gas[10]	11,740	12,310	+4.9	2,537	1,996	3,455	4,197	2,611	1,872	3,630	4,538	2,722	+4.3
Electricity	7,292	7,260	−0.4	1,680	1,503	2,106	2,206	1,676	1,394	1,984	2,212	1,628	−2.9
Petroleum	27,024	25,715	−4.8	6,358	5,884	7,497	6,914	6,278	5,436	7,087	7,249	6,208	−1.1
Total all fuels	58,289	55,874	−4.1	13,868	12,441	16,418	16,401	13,247	10,963	15,263	16,790	13,128	−0.9

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-Sept	94,472	92,506	84,599	7,520	+1,966	3,708	1,742	10,646	274
1976 Jan-Sept p	90,203	88,940	78,867	8,842	+1,263	2,265	1,002	11,541	875
Per cent change	*–4.5*	*–3.9*	*–6.8*	*+17.6*	*–35.8*	*–38.9*	*–42.5*	*+8.4*	*(+)*
1975 July	8,965	8,710	7,927	744	+255	415	160	1,611	34
Aug	6,670	6,393	5,687	667	+277	323	46	3,578	14
Sept*	11,794	11,483	10,423	1,011	+311	451	140	1,155	37
Total	27,429	26,586	24,037	2,422	+843	1,189	346	6,344	85
1976 July	8,515	8,413	7,394	901	+102	276	174	1,585	35
Aug	6,619	6,452	5,385	919	+167	236	69	3,438	135
Sept*p	10,844	10,900	9,495	1,257	–56	92	148	1,337	325
Total	25,978	25,765	22,274	3,077	+213	604	391	6,360	495
Per cent change	*–5.3*	*–3.1*	*–7.3*	*+27.0*	*–74.7*	*–49.2*	*+13.0*	*+0.3*	*(+)*

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] House Coal[6]	Domestic[5] Other[7]	Other[8]
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	2,435
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-Sept	87,820	894	52,490	14,324	7	2,968	6,986	7,650	1,211	1,290
1976 Jan-Sept p	87,590	802	54,454	14,267	5	2,625	6,131	6,967	945	1,394
Per cent change	*–0.3*	*–10.3*	*+3.7*	*–0.4*	*–28.6*	*–11.6*	*–12.2*	*–8.9*	*–22.0*	*+8.1*
1975 July	7,456	77	4,253	1,351	1	289	644	638	116	87
Aug	6,716	55	3,927	1,322	–	288	527	458	67	72
Sept*	10,313	101	6,048	1,642	–	429	857	961	130	145
Total	24,485	233	14,228	4,315	1	1,006	2,028	2,057	313	304
1976 July	7,736	68	4,578	1,474	1	250	619	567	111	68
Aug	6,839	47	4,157	1,488	–	208	387	417	62	73
Sept*p	10,303	82	6,128	1,847	–	313	799	862	130	142
Total	24,878	197	14,863	4,809	1	771	1,805	1,846	303	283
Per cent change	*+1.6*	*–15.5*	*+4.5*	*+11.4*	–	*–23.4*	*–11.0*	*–10.3*	*–3.2*	*–6.9*

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[1] 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 July	26,768	20,169	17,662	2,209	2	296	6,599	5,135	1,464
Aug	26,923	20,041	17,931	1,870	1	239	6,882	5,354	1,528
Sept	28,376	20,191	18,058	1,894	1	238	8,185	6,542	1,643
1976 July	33,254	22,230	19,450	2,539	1	240	11,024	9,475	1,549
Aug	33,205	22,482	19,955	2,286	1	240	10,723	9,105	1,618
Sept p	33,741	23,208	20,785	2,182	1	240	10,533	8,916	1,617
Absolute change:									
In latest month	*+536*	*+726*	*+830*	*–104*	–	–	*–190*	*–189*	*–1*
On a year ago	*+5,365*	*+3,017*	*+2,727*	*+288*	–	*+2*	*+2,348*	*+2,374*	*–26*

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

TABLE 6. Colliery manpower and productivity at NCB mines

	Wage earners on colliery books[1]		Recruitment	Wastage	Absence percentage[2]			Average output per manshift[3]	
	Total	Underground			Total	Voluntary	Involuntary	Overall	At the face
	Thousands		*Number*		*Per cent*			*Cwt.*	
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 July	248	196	593	1,957	15.3	3.6	11.7	42.06	149.32
Aug	248	196	2,042	1,609	14.5	3.3	11.2	39.37	147.56
Sept*	248	196	1,589	2,043	16.5	3.9	12.6	42.85	147.92
1976 July	242	192	999	1,777	16.3	3.4	12.9	40.62	144.14
Aug	242	192	1,807	1,347	14.9	2.9	12.0	39.12	148.98
Sept*p	242	192	1,987	2,060	17.2	3.8	13.4	41.09	143.77

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]						
		Indigenous	Imported	Coal	Oil[2]	Total	Town gas	Natural gas for direct supply
	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-Sept	9,510	9,281	229	7	504	9,605	617	8,988
1976 Jan-Sept p	10,071	9,749	322	5	178	10,095	190	9,905
Per cent change	*+5.9*	*+5.0*	*+40.6*	*–25.7*	*–64.7*	*+5.1*	*–69.2*	*+10.2*
1975 July	641	626	15	–	13	636	24	612
Aug	590	572	18	–	18	583	20	563
Sept*	949	908	41	1	22	951	34	917
Total	2,180	2,106	74	1	53	2,170	78	2,092
1976 July	596	571	25	–	9	612	6	606
Aug	597	560	37	–	10	597	6	591
Sept p*	979	946	33	1	15	991	10	981
Total	2,172	2,077	95	1	34	2,200	22	2,178
Per cent change	*–0.4*	*–1.4*	*+28.4*	–	*–36.0*	*+1.4*	*–71.8*	*+4.1*

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 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
2nd quarter p	2,865	158	112	1,221	1,055	319
Per cent change	*+2.4*	*–21.0*	*+23.1*	*+13.3*	*–5.7*	*+2.9*

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					
	Total[1]	Coal[2]	Oil[2 3]	Natural gas	Nuclear electricity	Hydro electricity	Total[4]	By steam plant: Nuclear	By steam plant: Other	Own[5] use	Electricity supplied	Total[6] electricity available
	Million tons of coal or coal equivalent						*TWh*					
United Kingdom												
1973	114.68	75.57	28.04	1.13	8.22	1.66	258.80	23.66	229.89	18.43	240.37	244.76
1974	110.49	65.97	28.51	3.86	10.28	1.81	250.47	29.40	215.70	18.07	232.40	236.68
1975	108.97	73.39	21.14	3.37	9.29	1.64	251.26	26.52	219.69	18.02	233.24	237.26
Per cent change	*−1.4*	*+11.3*	*−25.9*	*−12.7*	*−9.6*	*−9.4*	*+0.3*	*−9.8*	*+1.8*	*−0.3*	*+0.4*	*+0.2*
1975 Jan-Aug	69.95	46.44	14.31	2.14	5.92	1.05	161.55	16.92	141.44	11.61	149.94	152.45
1976 Jan-Aug p	69.02	48.33	10.70	1.85	6.94	1.17	161.79	20.10	138.26	12.13	149.66	152.02
Per cent change	*−1.3*	*+4.1*	*−25.2*	*−13.6*	*+17.4*	*+11.5*	*+0.2*	*+18.8*	*−2.3*	*+4.5*	*−0.2*	*−0.3*
1975 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
July	6.24	4.25	1.15	0.26	0.51	0.05	14.26	1.46	12.61	1.13	13.13	13.39
Aug	5.89	3.93	1.05	0.27	0.55	0.08	13.51	1.58	11.67	1.09	12.42	12.70
Total	20.34	13.78	3.77	0.85	1.72	0.18	46.81	4.96	41.14	3.65	43.16	43.98
1976 June*	8.30	6.05	1.08	0.18	0.87	0.12	19.42	2.55	16.52	1.50	17.92	18.17
July	6.38	4.58	0.88	0.12	0.74	0.06	14.81	2.12	12.44	1.23	13.58	13.78
Aug p	5.94	4.16	0.71	0.16	0.85	0.06	14.09	2.45	11.41	1.21	12.88	13.13
Total	20.62	14.79	2.67	0.46	2.46	0.24	48.32	7.12	40.37	3.94	44.38	45.08
Per cent change	*+1.4*	*+7.3*	*−29.2*	*−45.9*	*+43.0*	*+33.3*	*+3.2*	*+43.5*	*−1.9*	*+7.9*	*+2.8*	*+2.5*
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	219.25	23.94	194.33	15.32	203.93	206.39
Per cent change	*−1.5*	*+10.3*	*−25.2*	*−12.7*	*−10.9*	*−25.0*	*+0.2*	*−11.1*	*+2.0*	*−3.6*	*+0.5*	*+0.4*
1975 Jan-Aug	60.80	40.91	12.25	2.14	5.35	0.06	141.16	15.29	125.22	9.89	131.27	132.17
1976 Jan-Aug p	59.83	42.83	8.88	1.85	6.19	0.05	140.96	17.82	122.70	10.14	130.82	131.76
Per cent change	*−1.6*	*+4.7*	*−27.5*	*−13.6*	*+15.7*	*−15.8*	*−0.1*	*+16.6*	*−2.0*	*+2.5*	*−0.3*	*−0.3*
1975 June*	7.11	4.88	1.33	0.32	0.57	–	16.59	1.66	14.85	1.20	15.39	15.48
July	5.51	3.79	0.99	0.26	0.45	–	12.60	1.28	11.29	0.91	11.69	11.79
Aug	5.15	3.48	0.87	0.27	0.52	–	11.87	1.48	10.35	0.91	10.96	11.07
Total	17.77	12.15	3.19	0.85	1.54	–	41.06	4.42	36.49	3.02	38.04	38.34
1976 June*	7.20	5.42	0.87	0.18	0.73	–	16.91	2.13	14.74	1.25	15.66	15.73
July	5.63	4.16	0.71	0.12	0.64	–	13.09	1.85	11.21	1.00	12.09	12.16
Aug p	5.19	3.74	0.56	0.16	0.73	–	12.38	2.10	10.24	1.00	11.38	11.47
Total	18.02	13.32	2.14	0.46	2.10	–	42.38	6.08	36.19	3.25	39.13	39.36
Per cent change	*+1.4*	*+9.6*	*−32.9*	*−45.9*	*+36.4*	*−20.0*	*+3.2*	*+37.6*	*−0.8*	*+7.6*	*+2.9*	*+2.7*

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 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	65,993	3,103	18,643	30,389	13,858
2nd quarter	50,309	2,732	17,225	19,855	10,497
3rd quarter	42,009	2,407	16,215	14,194	9,193
4th quarter	59,454	2,922	18,833	24,500	13,199
1976 1st quarter p	66,099	3,199	19,578	28,906	14,416
2nd quarter p	48,978	3,062	17,874	17,475	10,567
Per cent change	*−2.6*	*+12.1*	*+3.8*	*−12.0*	*+0.7*

1. Mainly commerce, public administration & agriculture

Petroleum

TABLE 11. Production, arrivals and shipments[1]

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-Aug	480	62,012	371	+60,865	776	61,692	827	7,879	8,949	−1,070	2,301
1976 Jan-Aug p	5,505	63,842	5,233	+57,926	683	59,836	1,910	7,678	9,608	−1,930	2,383
Per cent change	*(+)*	*+3.0*	*(+)*	*−4.8*	*−12.0*	*−3.0*	*(+)*	*−2.6*	*+7.4*	*+80.4*	*+3.6*
1975 June	60	8,150	32	+8,003	115	8,174	171	887	1,074	−187	250
July	95	7,692	95	+7,483	114	7,588	105	859	1,283	−424	265
Aug	118	7,433	117	+7,232	84	7,328	96	740	1,536	−796	290
Total	273	23,275	244	+22,718	313	23,090	372	2,486	3,893	−1,407	805
1976 June p	942	7,767	921	+6,808	38	6,999	191	820	1,225	−405	271
July p	752	7,758	713	+7,009	36	7,349	340	845	1,446	−601	305
Aug p	1,076	7,882	974	+6,907	1	7,311	404	727	1,114	−387	335
Total	2,770	23,407	2,608	+20,724	75	21,659	935	2,392	3,785	−1,393	911
Per cent change	*(+)*	*+0.6*	*(+)*	*−8.8*	*−76.0*	*−6.2*	*(+)*	*−3.8*	*−2.8*	*−1.0*	*+13.2*

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[1]

Thousand tonnes

	Throughput of crude and process oils	Refinery use		Total output of petroleum products[2]	Gases		Naphtha (LDF)	Motor spirit	Kerosene		Gas/diesel oil	Fuel oil	Lubricating oils	Bitumen
		Fuel	Losses		Butane and propane	Other petroleum			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-Aug	62,927	4,020	625	58,282	973	96	2,578	9,426	2,776	1,435	15,438	22,347	778	1,432
1976 Jan-Aug p	63,528	4,212	751	58,565	1,023	109	2,867	9,987	2,751	1,538	16,092	20,605	830	1,325
Per cent change	*+1.0*	*+4.8*	*+20.2*	*+0.5*	*+5.1*	*+13.2*	*+11.2*	*+5.9*	*+0.9*	*+7.1*	*+4.2*	*−7.8*	*+6.7*	*−7.4*
1975 June	7,482	521	15	6,946	124	9	216	1,268	320	134	1,989	2,477	69	203
July	7,273	476	81	6,716	106	10	255	1,169	384	106	1,773	2,511	88	216
Aug	8,351	505	94	7,752	106	9	338	1,300	451	112	2,086	2,934	104	176
Total	23,106	1,502	190	21,414	336	28	809	3,737	1,155	352	5,848	7,922	261	595
1976 June	7,953	505	111	7,337	106	12	405	1,294	365	146	1,923	2,607	99	180
July	7,447	507	104	6,836	109	15	219	1,312	377	96	1,877	2,381	108	180
Aug p	7,508	532	93	6,883	115	15	338	1,363	395	130	1,828	2,270	107	152
Total	22,908	1,544	308	21,056	330	42	962	3,969	1,137	372	5,628	7,258	314	512
Per cent change	*−0.9*	*+2.8*	*+62.1*	*−1.7*	*−1.8*	*+52.2*	*+18.9*	*+6.2*	*−1.6*	*+5.7*	*−3.8*	*−8.4*	*+20.3*	*−14.0*

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[1]

Thousand tonnes

	Total[2,3]	Butane[4] and propane	Naphtha (LDF)[5]	Motor spirit	Kerosene				Gas/diesel oil		Fuel oil	Lubricating oils	Bitumen
					Aviation turbine fuel	Burning oil							
						Premier	Standard		Derv fuel	Other			
							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-Aug	53,435	838	3,389	10,659	2,559	301	1,048	247	3,535	8,293	20,094	649	1,424
1976 Jan-Aug p	52,486	855	3,574	11,135	2,700	330	1,041	242	3,650	8,268	18,183	658	1,305
Per cent change	*−1.8*	*+2.0*	*+5.5*	*+4.5*	*+5.5*	*+9.7*	*−0.6*	*−1.8*	*+3.2*	*−0.3*	*−9.5*	*+1.3*	*−8.4*
1975 June	5,818	92	352	1,353	347	10	85	24	447	759	2,007	80	217
July	5,613	84	346	1,490	394	4	64	22	454	656	1,768	86	201
Aug	5,128	82	421	1,427	368	5	55	18	393	628	1,454	74	161
Total	16,559	258	1,119	4,270	1,109	19	204	64	1,294	2,043	5,229	240	579
1976 June	5,823	99	367	1,476	362	9	89	25	476	729	1,856	86	190
July	5,715	88	439	1,534	399	9	80	25	461	657	1,679	94	174
Aug p	5,360	85	460	1,494	398	6	43	14	416	573	1,572	78	152
Total	16,898	272	1,266	4,504	1,159	24	212	64	1,353	1,959	5,107	258	516
Per cent change	*+2.0*	*+5.5*	*+13.2*	*+5.5*	*+4.4*	*+19.6*	*+3.7*	*−2.0*	*+4.5*	*−4.1*	*−2.3*	*+7.7*	*−10.8*

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-July	43,565	8,317	487	2,083	10,195	15,873	1,890	4,720
1976 Jan-July p	41,971	6,231	247	1,824	10,404	16,391	1,929	4,945
Per cent change	*−3.7*	*−25.1*	*−49.4*	*−12.4*	*+2.1*	*+3.3*	*+2.1*	*+4.8*
1975 May	5,645	932	42	251	1,291	2,392	186	551
June	5,162	885	44	230	1,132	2,317	150	404
July	4,965	801	34	174	970	2,526	111	349
Total	15,772	2,618	120	655	3,393	7,235	447	1,304
1976 May	5,330	743	17	239	1,292	2,331	172	536
June p	5,135	656	17	234	1,178	2,497	150	403
July p	4,943	665	15	212	1,011	2,569	133	338
Total	15,408	2,064	49	685	3,481	7,397	455	1,277
Per cent change	*−2.3*	*−21.2*	*−58.5*	*+4.6*	*+2.6*	*+2.2*	*+2.0*	*−2.1*

1. Calendar months. 2. Excludes non-energy products and non-energy use of naphtha (LDF).
3. Public supply, railway and transport power stations. 4. Including fishing, coastal and inland shipping.
5. Mainly public administration, commerce and agriculture.

TABLE 15. Stocks of petroleum at end of month

	Held by oil companies[1]		Power stations[2]
	Million tonnes	*Estimated days' supply*[3]	*Million tonnes*
1975 July	23.5	110	0.93
Aug	24.1	103	0.89
Sept	23.8	97	0.98
1976 July	20.8	94	0.99
Aug	21.7	89	1.00
Sept p	22.4	85	0.98

1. Stocks of petroleum products plus the product equivalent of crude and process oils held at refineries, and products in the wholesale distribution system. 2. Fuel oil held at main oil burning stations in Great Britain.
3. Latest three months calculated on forecast deliveries for the ensuing months. Figures for earlier period calculated on actual deliveries.

APPROXIMATE CONVERSION FACTORS

(last digit rounded to nought or five)

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

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

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

GWh

	Total	Industry										Transport under-takings
		Total Industry	Iron and Steel	Engin-eering and other metal trades	Food drink and tobacco	Coal mining	Chemical and allied trades: Nuclear[2] power stations	Chemical and allied trades: Others[3]	Textiles, leather and clothing	Paper, printing and stationery	Other industries (including gas and water works)	
1970	20,879	20,215	2,700	1,508	375	478	4,142	6,846	564	2,965	637	664
1971	20,769	20,092	2,728	1,344	410	465	4,339	6,987	535	2,671	613	677
1972	20,916	20,223	2,587	1,320	409	512	4,098	7,408	458	2,786	645	693
1973	23,170	22,467	2,707	2,716	458	484	4,339	7,859	498	2,763	648	703
1974	22,775	22,126	2,180	3,139	521	438	4,222	7,904	450	2,598	674	649
1975	20,878	20,189	1,660	3,319	435	433	3,820	7,305	406	2,138	673	689
Per cent change	*−8.3*	*−8.8*	*−23.9*	*+5.7*	*−16.5*	*−1.1*	*−9.5*	*−7.6*	*−9.8*	*−17.7*	*−0.1*	*+6.3*
1974 2nd quarter	5,552	5,392	505	785	70	122	1,075	1,903	128	649	155	160
3rd quarter	5,121	4,971	464	777	70	104	1,030	1,711	99	575	141	150
4th quarter	5,635	5,470	536	806	221	133	894	1,976	84	646	174	165
1975 1st quarter	5,823	5,645	586	873	110	129	1,087	1,998	106	570	185	178
2nd quarter	4,900	4,731	369	825	61	119	828	1,738	104	525	162	169
3rd quarter	4,628	4,465	294	802	67	106	829	1,670	98	453	146	163
4th quarter	5,527	5,348	411	819	197	79	1,075	1,899	98	590	180	179
1976 1st quarter p	5,957	5,770	480	852	100	74	1,098	2,263	115	599	189	187
2nd quarter p	5,252	5,083	409	857	78	63	833	2,019	105	567	152	169
Per cent change	*+7.2*	*+7.4*	*+10.8*	*+3.9*	*+27.9*	*−47.1*	*+0.6*	*+16.2*	*+1.0*	*+8.0*	*−6.2*	*−0.2*

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

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