

High second quarter demand for gas

Total Energy

Final consumption high in 1st quarter

Total inland energy consumption on a primary fuel input basis during the three month period March to May was 6.4 million tonnes of coal equivalent higher than in the comparable months last year, an increase of 7.3 per cent. Coal and natural gas consumption rose by 11 per cent and 15.7 per cent respectively and there was a small increase of 1.1 per cent in the consumption of petroleum. The period as a whole was colder than last year and after allowing for temperature differences the seasonally adjusted statistics show a much smaller increase of 4.4 per cent in total consumption with petroleum 0.3 per cent below last year's level.

Provisional figures of energy consumption by final users in the first quarter of 1979, which was exceptionally cold, show that total consumption on a heat supplied basis was 8.9 per cent higher than in the corresponding quarter of 1978. The effects of the severe weather were most marked in the domestic sector, where consumption rose by 16.5 per cent, and in the "other final users" sector. The latter comprises mainly public buildings, hospitals, offices, commercial premises etc. where the main uses of energy are for space heating, and in this sector consumption increased by 13.6 per cent. In each of these sectors gas consumption rose by nearly a quarter and electricity by over eleven per cent.

Coal

Output and productivity lower in first half year

Total coal production during the first half of 1979 was 62.2 million tonnes, 2.2 million tonnes less than in the first half of 1978. Deep-mined production fell by 1.6 million tonnes, a decline of 2.8 per cent, while output from opencast working fell by 9.7 per cent.

Total consumption of coal in the first half of the year was 67.8 million tonnes, 5.4 million tonnes higher than in the corresponding period of last year. Except for a small increase in colliery disposals to industry, almost the whole of the increased consumption was for electricity generation.

Productivity at NCB mines during the first half of 1979, as measured by output per manshift overall, was 2.2 per cent lower than in the comparable period of 1978.

Gas

Large increase in first half year

Total gas sent out in the first half of 1979 totalled 9.9 thousand million therms, an increase of 11.8 per cent on the first half of last year. Most of the increase occurred in the first quarter but although the second quarter was on the whole a little warmer than last year, demand continued at a high level and send-out increased by 7.8 per cent.

Electricity

Increase in coal-burn

During the three month period March to May, total electricity supplied was 7.3 per cent higher than in the corresponding period last year. Fuel used for generation increased by 8.3 per cent in total with coal consumption higher by 14.8 per cent. Oil use declined by 7.8 per cent and the fossil fuel equivalent of nuclear electricity generated by public supply stations fell by 5.1 per cent.

The final table on the back page of this month's issue is devoted to electricity generated outside the public supply system, mainly by manufacturing industry for its own use. Total generation by these industries in the 1st quarter of 1979 was 2.9 per cent less than a year ago with most industrial sectors sharing the decline.

Petroleum

Big drop in fuel oil output

Refinery output of petroleum products during the three months March to May were lower in total by 1.9 per cent than in the corresponding months of 1978; the main cause of the decline was a fall of 12.4 per cent in output of fuel oil. Most other products showed increases in output the largest being aviation turbine fuel which was up by 18.7 per cent and then naphtha which was nearly seven per cent higher.

Total inland deliveries of oil products during the March to May period were 0.7 per cent above last year's level. Deliveries of all transport fuels were higher: aviation turbine fuel increased by 6.4 per cent, derv by 7.5 per cent and motor spirit by 3.9 per cent. The rate of increase in the latest month (May) was sustained for motor spirit at 3.9 per cent which appears to support the view that the shortages widely reported in that month were transient and possibly made worse by "tank topping".

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Figures for the latest periods and the corresponding averages or totals are provisional and are liable to subsequent revision.

The figures have not been adjusted for temperature or seasonal factors except where noted in Table 1. Monthly figures relate to four week periods except where otherwise indicated.

Percentage changes relate to the corresponding period a year ago. These comparisons can be affected by calendar difference, especially during periods of rapid change.

They are calculated from unrounded figures but are shown only as (+) or (—) when the percentage change is very large. All figures relate to the United Kingdom unless otherwise indicated.

Total energy

TABLE 1. Inland energy consumption: primary fuel input basis

	Total	Coal ¹	Petroleum ²	Natural ³ gas	Nuclear electricity	Hydro- electricity
<i>Million tonnes of coal or coal equivalent</i>						
1975	324.8	120.0	136.5	55.4	10.9	2.0
1976	329.8	122.0	134.2	58.8	12.9	1.9
1977	338.4	122.7	136.6	62.8	14.3	2.0
1978	339.8	119.9	139.3	65.1	13.4	2.1
Per cent change	+0.4	-2.3	+2.0	+3.7	-6.3	+5.0
1978 Jan—May	151.4	52.7	59.8	31.8	6.1	1.0
1979 Jan—May p	162.3	56.6	62.0	36.7	6.1	0.9
Per cent change	+7.2	+7.4	+3.7	+15.5	-1.0	-5.5
1978 Mar*	35.6	12.1	14.1	7.5	1.6	0.3
Apr	28.2	9.7	11.4	5.9	1.0	0.2
May	24.4	8.9	10.3	4.2	0.9	0.1
Total	88.2	30.7	35.8	17.6	3.5	0.6
1979 Mar*	40.2	14.1	15.0	9.4	1.5	0.2
Apr	28.3	10.2	10.7	6.1	1.1	0.2
May p	26.1	9.8	10.5	4.8	0.8	0.2
Total	94.6	34.1	36.2	20.3	3.4	0.6
Per cent change	+7.3	+11.0	+1.1	+15.7	-3.7	+2.7

Seasonally adjusted and temperature corrected⁴ (annual rates)

1978 Jan—May	336.4	118.2	137.6	64.8	13.8	2.0
1979 Jan—May p	351.9	124.8	140.0	71.4	13.8	1.9
Per cent change	+4.6	+5.5	+1.8	+10.3	-0.1	-4.7
1978 Mar*	335.8	118.4	133.9	67.3	13.9	2.3
Apr	342.3	119.5	140.3	67.1	13.0	2.4
May	345.2	120.3	148.4	62.1	12.2	2.2
Average	340.6	119.2	140.3	65.6	13.1	2.3
1979 Mar*	355.4	126.7	138.3	75.4	13.0	2.0
Apr	355.9	131.5	135.2	73.8	13.6	1.8
May p	356.3	128.1	146.8	66.6	11.8	3.0
Average	355.8	128.6	140.0	72.2	12.8	2.2
Per cent change	+4.4	+7.8	-0.3	+10.0	-1.8	-3.6

So that short-term data can be more accurately compared, monthly coal figures for 1978 in the top half of Table 1 and in Tables 3-6 inclusive have been adjusted to account for certain calendar differences between 1978 and 1979.

Symbols used in the tables

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

	Total	Coal ¹	Petroleum ²	Natural ³ gas	Nuclear electricity	Hydro- electricity
<i>Million tonnes of oil or oil equivalent</i>						
1975	191.1	70.6	80.3	32.6	6.4	1.2
1976	194.0	71.8	78.9	34.6	7.6	1.1
1977	199.0	72.2	80.3	36.9	8.4	1.2
1978	199.9	70.5	82.0	38.3	7.9	1.2
Per cent change	+0.4	-2.3	+2.0	+3.7	-6.3	+5.0
1978 Jan—May	89.1	31.0	35.2	18.7	3.6	0.6
1979 Jan—May p	95.5	33.3	36.5	21.6	3.6	0.5
Per cent change	+7.2	+7.4	+3.7	+15.5	-1.0	-5.5
1978 Mar*	20.9	7.1	8.3	4.4	0.9	0.2
Apr	16.6	5.7	6.7	3.5	0.6	0.1
May	14.3	5.2	6.1	2.4	0.5	0.1
Total	51.8	18.0	21.1	10.3	2.0	0.4
1979 Mar*	23.6	8.2	8.8	5.5	0.9	0.2
Apr	16.7	6.0	6.3	3.6	0.7	0.1
May p	15.4	5.8	6.2	2.8	0.5	0.1
Total	55.7	20.0	21.3	11.9	2.1	0.4
Per cent change	+7.3	+11.0	+1.1	+15.7	-3.7	+2.7

1978 Jan—May	197.9	69.6	80.9	38.1	8.1	1.2
1979 Jan—May p	207.0	73.4	82.4	42.0	8.1	1.1
Per cent change	+4.6	+5.5	+1.8	+10.3	-0.1	-4.7
1978 Mar*	197.5	69.7	78.8	39.5	8.2	1.3
Apr	201.3	70.3	82.5	39.4	7.7	1.4
May	203.1	70.8	87.3	36.5	7.2	1.3
Average	200.4	70.2	82.5	38.6	7.7	1.4
1979 Mar*	209.1	74.6	81.3	44.3	7.7	1.2
Apr	209.4	77.3	79.6	43.4	8.0	1.1
May p	209.6	75.4	86.4	39.2	6.9	1.7
Average	209.2	75.6	82.3	42.4	7.6	1.3
Per cent change	+4.4	+7.8	-0.3	+10.0	-1.8	-3.6

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

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

MILLION TONNES
COAL EQUIVALENT

MILLION TONNES
OIL EQUIVALENT

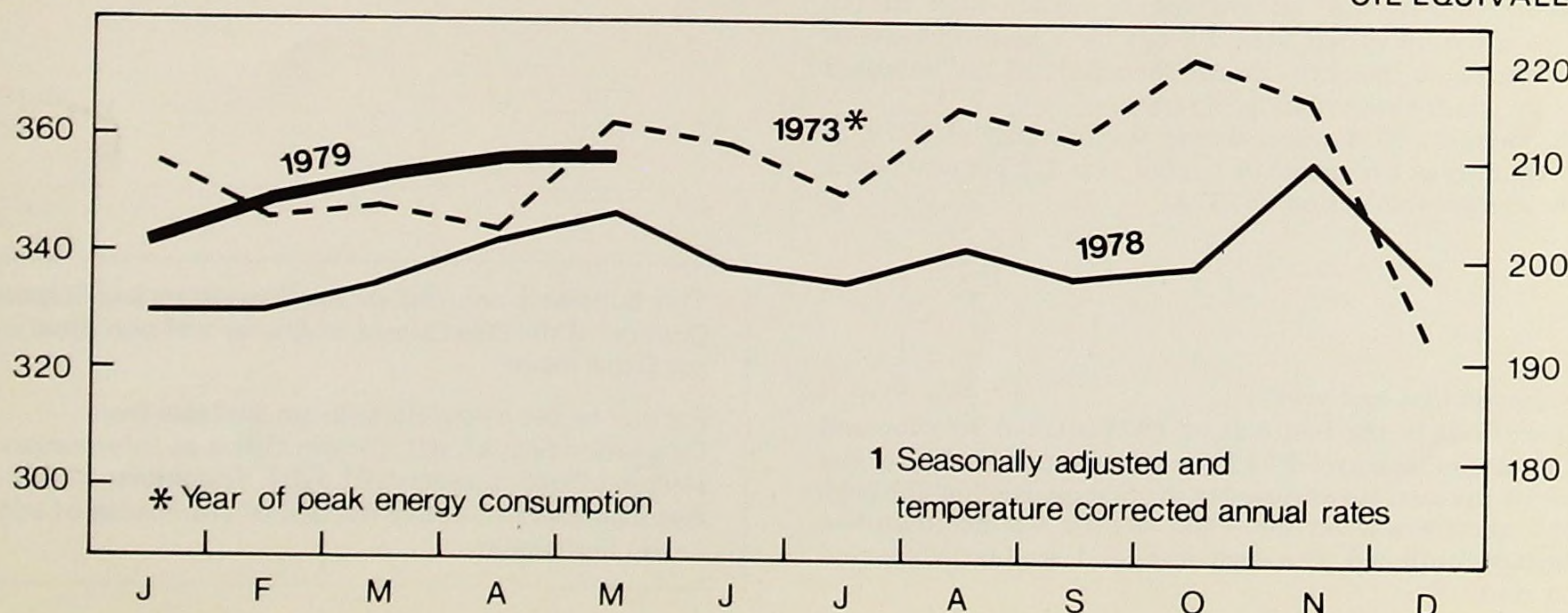


TABLE 2. Supply and use of fuels

Million therms

				1977				1978				1979p	
	1977	1978	Per cent change	1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	Per ¹ cent change
PRIMARY FUELS AND EQUIVALENTS:													
Production of primary fuels													
Coal	29,682	29,964	+1.0	7,604	7,514	6,405	8,159	7,643	7,427	6,502	8,392	7,725	+1.1
Petroleum ²	16,350	23,098	+41.3	3,305	4,214	4,337	4,494	4,839	5,701	5,846	6,712	7,486	+54.7
Natural gas ³	15,024	14,387	-4.2	4,916	3,459	2,497	4,152	4,998	3,265	2,294	3,830	5,468	+9.4
Primary electricity	3,761	3,567	-5.2	1,070	877	852	962	1,127	794	720	926	1,094	-2.9
Total	64,817	71,016	+9.6	16,895	16,064	14,091	17,767	18,607	17,187	15,362	19,860	21,771	+17.0
Arrivals, Petroleum ⁴	35,730	34,035	-4.7	9,615	9,116	8,253	8,746	8,900	8,248	7,853	9,034	8,021	-9.9
Other	1,366	2,578	(+)	195	199	371	601	629	458	509	982	1,129	(+)
Shipments	13,841	17,253	+24.7	2,973	3,651	3,886	3,331	3,498	4,031	4,834	4,890	5,945	(+)
Bunkers	1,168	1,190	+1.9	316	309	292	251	240	280	321	349	270	+12.5
Stock change ⁵													
Solid fuels	+238	-543		+1,252	-385	-194	-435	+459	-483	-369	-150	+916	
Crude Petroleum	+555	-492		+375	-352	+253	+279	+92	-427	+326	-483	+380	
Petroleum products	+424	+169		+564	-225	-309	+394	+185	+215	-480	+249	+553	
Non-energy use	4,175	4,067	-2.6	1,073	1,059	1,060	983	1,021	1,027	1,047	972	918	-10.1
Statistical difference ⁶	-266	-250		-387	+268	-59	-88	+123	-142	+81	-312	+263	
Total primary ¹ energy input	83,680	84,003	+0.4	24,147	19,666	17,168	22,699	24,236	19,718	17,080	22,969	25,902	+6.9
Conversion losses etc. ³	25,148	24,812	-1.3	7,274	5,854	5,263	6,757	7,099	5,796	5,246	6,671	7,247	+2.1
Final energy consumption	58,532	59,191	+1.1	16,873	13,812	11,905	15,942	17,137	13,922	11,834	16,298	18,655	+8.9
FINAL CONSUMPTION BY USER													
Iron and steel industry													
Coal	66	50	-24.2	23	15	10	18	16	11	9	14	19	+18.8
Other solid fuel ⁹	2,394	2,239	-6.5	663	593	600	538	563	579	491	606	582	+3.4
Other coal-derived fuels ¹⁰	362	318	-12.2	94	89	95	84	78	89	69	82	68	-12.8
Gas ¹¹	485	446	-8.0	128	125	113	119	118	113	110	105	117	-0.8
Electricity	389	411	+5.7	104	96	92	97	106	106	93	106	110	+3.8
Petroleum	1,205	1,161	-3.6	352	286	256	311	336	285	233	307	342	+1.8
Total	4,901	4,625	-5.6	1,364	1,204	1,166	1,167	1,217	1,183	1,005	1,220	1,238	+1.7
Other industries													
Coal	2,295	2,184	-4.8	618	530	483	664	623	507	402	652	640	+2.7
Other solid fuel ⁹	156	143	-8.3	38	38	35	45	41	26	33	43	40	-2.4
Other coal-derived fuels ¹⁰	74	70	-5.4	19	23	19	13	20	17	18	15	20	-
Gas ¹¹	5,458	5,574	+2.1	1,431	1,373	1,171	1,483	1,536	1,425	1,169	1,444	1,522	-0.9
Electricity	2,411	2,455	+1.8	645	599	559	608	648	607	568	632	677	+4.5
Petroleum	7,520	7,396	-1.6	2,245	1,774	1,428	2,073	2,146	1,698	1,349	2,203	2,294	+6.9
Total	17,914	17,822	-0.5	4,996	4,337	3,695	4,886	5,014	4,280	3,539	4,989	5,193	+3.6
Transport sector													
Coal and other solid fuel	20	21	+5.0	6	4	3	7	6	4	4	7	7	+16.7
Electricity	100	102	+2.0	26	26	23	25	27	25	24	26	27	-
Petroleum	12,931	13,602	+5.2	2,988	3,218	3,420	3,305	3,046	3,456	3,635	3,465	3,148	+3.3
Total	13,051	13,725	+5.2	3,020	3,248	3,446	3,337	3,079	3,485	3,663	3,498	3,182	+3.3
Domestic sector													
Coal	3,230	2,968	-8.1	850	773	703	904	761	724	647	836	788	+3.5
Other solid fuel ⁹	843	768	-8.9	227	204	223	189	189	194	193	192	206	+9.0
Gas ¹¹	6,590	7,261	+10.2	2,413	1,371	771	2,035	2,808	1,393	866	2,194	3,459	+23.2
Electricity	2,932	2,928	-0.1	972	638	511	811	965	636	517	810	1,079	+11.8
Petroleum	1,450	1,422	-1.9	518	295	205	432	520	277	201	424	575	+10.6
Total	15,045	15,347	+2.0	4,980	3,281	2,413	4,371	5,243	3,224	2,424	4,456	6,107	+16.5
Other final users ¹²													
Coal	544	516	-5.1	166	118	83	177	168	118	85	145	179	+6.5
Other solid fuel ⁹	166	153	-7.8	50	36	45	35	40	37	38	38	42	+5.0
Gas ¹¹	1,587	1,744	+9.9	561	380	180	466	643	404	208	489	794	+23.5
Electricity	1,689	1,780	+5.4	495	386	346	462	519	403	363	495	577	+11.2
Petroleum	3,635	3,479	-4.3	1,241	822	531	1,041	1,214	788	509	968	1,343	+10.6
Total	7,621	7,672	+0.7	2,513	1,742	1,185	2,181	2,584	1,750	1,203	2,135	2,935	+13.6
Total final users	58,532	59,191	+1.1	16,873	13,812	11,905	15,942	17,137	13,922	11,834	16,298	18,655	+8.9
FINAL CONSUMPTION BY FUEL													
Coal	6,154	5,739	-6.7	1,663	1,440	1,282	1,769	1,574	1,364	1,147	1,654	1,633	+3.7
Other solid fuel ⁹	3,560	3,303	-7.2	978	871	903	808	833	836	755	879	870	+4.4
Other coal derived fuels ¹⁰	436	388	-11.0	113	112	114	97	98	106	87	97	88	-10.2
Gas ¹¹	14,120	15,025	+6.4	4,533	3,249	2,235	4,103	5,105	3,335	2,353	4,232	5,892	+15.4
Electricity	7,521	7,676	+2.1	2,242	1,745	1,531	2,003	2,265	1,777	1,565	2,069	2,470	+9.1
Petroleum	26,741	27,060	+1.2	7,344	6,395	5,840	7,102	7,262	6,504	5,927	7,367	7,702	+6.1
Total all fuels	58,532	59,191	+1.1	16,873	13,812	11,905	15,942	17,137	13,922	11,834	16,298	18,655	+8.9

1. Per cent change on the corresponding period of the previous year. 2. Crude petroleum and natural gas liquids. 3. Excluding gas flared or reinjected. 4. Crude petroleum, process oils and petroleum products. 5. Stock fall (+) stock rise (-). 6. Supply greater than recorded demand (-). 7. Thermal equivalent of total inland energy consumption in Table 1. A more detailed analysis of the annual figures is shown in the Digest of United Kingdom Energy Statistics 1978 Tables 9 and 13. 8. Losses in conversion and distribution and used by fuel industries. 9. Coke and other manufactured solid fuels. 10. Coke oven gas, creosote/pitch mixtures and other liquid fuels derived from coal. 11. Natural gas supplied direct, and town gas. 12. Mainly public administration, commerce and agriculture.

Coal

TABLE 3. Supply

Thousand tonnes

	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
1975	131,583	128,682	117,411	10,414	+2,901	5,083	2,182	12,300	352
1976	125,201	123,800	110,264	11,944	+1,401	2,837	1,436	12,345	1,157
1977	122,648	122,150	107,123	13,551	+498	2,439	1,941	12,457	814
1978	123,663	123,577	107,528	14,167	+86	2,352	2,266	12,606	1,497
Per cent change	+0.8	+1.2	+0.4	+4.5	-82.7	-3.6	+16.7	+1.2	+83.9
1978 Jan—Jun	64,606	64,399	56,540	7,059	+207	1,180	973	4,333	936
1979 Jan—Jun p		62,202	54,932	6,373				4,111	478
Per cent change		-3.4	-2.8	-9.7				-5.1	-48.9
1978 Apr	10,998	10,977	9,638	1,214	+21	153	132	—	150
May	9,746	9,682	8,487	1,095	+64	223	159	560	367
Jun*	10,574	10,616	8,943	1,523	-42	116	158	2,294	88
Total	31,318	31,275	27,068	3,832	+43	492	449	2,854	605
1979 Apr	9,509	9,341	8,166	974	+168	281	113	933	115
May	9,865	9,801	8,646	1,053	+64	337	273	455	80
Jun p*		10,797	9,149	1,349				2,065	51
Total		29,939	25,961	3,376				3,453	246
Per cent change		-4.3	-4.1	-11.9				+21.0	-59.3

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 only.

TABLE 4. Inland consumption of coal

Thousand tonnes

	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	Domestic		Other ⁶
								House coal ⁴	Other ⁵	
1975	122,216	1,238	74,569	19,085	10	4,063	9,685	9,915	1,703	1,948
1976	123,603	1,132	77,818	19,401	8	3,405	8,970	9,450	1,374	2,045
1977	123,978	1,124	79,956	17,406	7	3,166	9,033	9,635	1,503	2,148
1978	120,477	1,010	80,643	14,946	6	3,064	8,550	8,699	1,518	2,041
Per cent change	-2.8	-10.1	+0.9	-14.1	-14.3	-3.2	-5.3	-9.7	+1.0	-5.0
1978 Jan—Jun	62,460	588	41,829	7,549	3	1,525	4,534	4,526	752	1,154
1979 Jan—Jun p	67,816	510	47,127	7,432	4	1,510	4,740	4,597	746	1,150
Per cent change	+8.6	-13.3	+12.7	-1.5	+33.3	-1.0	+4.5	+1.6	-0.8	-0.3
1978 Apr	9,697	99	6,432	1,184	—	227	702	767	111	175
May	8,862	84	5,776	1,155	—	238	655	698	109	147
Jun*	9,742	92	6,297	1,430	—	298	630	724	140	131
Total	28,301	275	18,505	3,769	—	763	1,987	2,189	360	453
1979 Apr	10,183	78	6,963	1,206	1	232	719	682	142	160
May	9,798	71	6,572	1,207	—	238	698	724	140	148
Jun p*	11,196	65	7,458	1,502	—	302	800	797	137	135
Total	31,177	214	20,993	3,915	1	772	2,217	2,203	419	443
Per cent change	+10.2	-22.2	+13.4	+3.9	+10.0	+1.2	+11.6	+0.6	+16.4	-2.2

1. Disposals by collieries and opencast sites. 2. Public supply and railway and transport power stations. 3. Low temperature carbonisation and patent fuel plants. 4. Including miners' coal. 5. Anthracite, dry steam coal and imported naturally smokeless fuels. 6. Mainly public administration and commerce.

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

Thousand tonnes

	Total	Distributed					Undistributed		
		Total distributed stocks	Power stations	Coke ovens	Gas works	Other	Total undistributed stocks	Collieries	Opencast sites and central stocking grounds
1973	27,885	17,035	14,770	1,968	27	270	10,850	7,650	3,200
1974	21,806	15,827	13,629	1,851	3	344	5,979	4,009	1,970
1975	31,157	20,540	17,951	2,333	2	254	10,617	8,908	1,709
1976	33,115	22,457	19,598	2,684	2	173	10,658	9,295	1,363
1977	31,534	21,704	19,128	2,368	2	206	9,830	8,290	1,540
1978	34,527	22,038	20,200	1,658	2	178	12,489	9,888	2,601
1978 Apr	30,246	19,365	17,432	1,757	2	174	10,881	9,178	1,703
May	31,201	20,268	18,193	1,884	1	190	10,933	9,197	1,736
Jun	32,186	21,138	19,171	1,771	2	194	11,048	9,137	1,911
1979 Apr	28,076	14,124	11,889	2,046	2	187	13,952	11,306	2,646
May	27,944	14,640	12,424	2,043	1	172	13,304	10,821	2,483
Jun p	27,674	15,244	13,191	1,872	1	180	12,430	10,097	2,333
Absolute change: in latest month	-270	+604	+767	-171	—	+8	-874	-724	-150
On a year ago	-4,512	-5,894	-5,980	+101	-1	-14	+1,382	+960	+422

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	Underground ⁴	
									Total	Production
Thousands		Number		Per cent			Tonnes			
1973	245	193	17,402	37,961	18.0	4.1	13.9	2.29	2.95	..
1974	246	194	26,436	25,133	16.3	4.1	12.2	2.18	2.80	..
1975	245	194	21,347	22,451	16.2	4.0	12.2	2.28	2.92	..
1976	241	192	17,061	21,239	17.4	3.7	13.7	2.23	2.84	..
1977	239	189	29,361	31,647	17.6	3.9	13.7	2.18	2.78	..
1978	232	184	20,595	27,653	17.3	4.3	13.0	2.25	2.88	..
Per cent change	-2.9	-2.6	-29.9	-12.6				+3.2	+3.6	..
1978 Jan—Jun	239 ⁵	190 ⁵	12,161	11,982	17.8	4.3	13.5	2.29	2.92	..
1979 Jan—Jun p	232 ⁵	185 ⁵	12,165	10,772	16.7	4.6	12.1	2.24	2.86	..
Per cent change	-2.9	-2.6	—	-10.1				-2.2	-2.1	..
1978 Apr	240	190	2,652	1,849	17.5	4.9	12.6	2.36	2.98	..
May	240	190	1,265	1,799	15.6	3.6	12.0	2.27	2.92	..
Jun*	239	189	1,886	2,424	15.7	3.4	12.3	2.13	2.75	..
1979 Apr	233	185	1,790	1,653	16.5	5.1	11.4	2.22	2.81	8.46
May	232	185	1,588	1,750	14.1	3.8	10.3	2.28	2.91	8.82
Jun p*	233	185	2,702	2,216	13.8	3.6	10.2	2.16	2.77	8.50

1. At end of period. 2. The definition was changed from 1973. 3. Excluding capital working and tip coal. 4. For information on this new series, see commentary in May issue. 5. Average number during the period.

Gas

TABLE 7. Sources of supply and send-out by the public gas supply system

	Natural gas supply			Other fuel used		Gas sent out		
	Total into system	Source ¹		Coal	Oil ³	Total	Town gas	Natural ⁴ gas for direct supply
		Indigenous	Imported ²					
	Million therms			Thousand tonnes		Million therms		
1975	13,692	13,367	325	9	588	13,822	752	13,070
1976	14,420	14,030	390	8	245	14,445	226	14,219
1977	15,373	14,734	639	7	166	15,323	75	15,248
1978	15,854	13,997	1,857	6	283	15,853	39	15,814
Per cent change	+3.1	-5.0	(+)	-14.3	+71.1	+3.5	-48.0	+3.7
1978 Jan—Jun	8,862	8,126	736	3	165	8,887	22	8,865
1979 Jan—Jun p	9,897	8,269	1,628	4	131	9,937	23	9,914
Per cent change	+11.7	+1.8	(+)	+25.7	-20.6	+11.8	+4.5	+11.8
1978 Apr	1,443	1,313	130	1	13	1,443	3	1,440
May	1,063	975	88	—	21	1,065	4	1,061
Jun*	960	869	91	—	22	964	3	961
Total	3,466	3,157	309	1	56	3,472	10	3,462
1979 Apr	1,453	1,217	236	1	16	1,455	4	1,451
May	1,229	1,001	228	—	19	1,228	3	1,225
Jun*p	1,060	873	187	—	22	1,061	3	1,058
Total	3,742	3,091	651	1	57	3,744	10	3,734
Per cent change	+8.0	-2.1	(+)	+14.5	+1.8	+7.8	+0.3	+7.9

1. Figures differ from production and imports respectively because of stock changes and small quantities not entering the public supply system.
 2. Includes imports from the Norwegian sector of the Frigg gasfield. 3. Mainly naphtha (LDF), liquefied petroleum gases (LPG) and refinery gases.
 4. Includes Substitute Natural Gas (SNG).

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
1973	10,729	285	396	4,150	4,815	1,083
1974	12,668	985	395	4,635	5,384	1,269
1975	13,112	858	371	4,645	5,891	1,347
1976	13,997	662	438	5,182	6,194	1,521
1977	14,579	519	485	5,398	6,590	1,587
1978	15,308	338	446	5,519	7,261	1,744
Per cent change	+5.0	-34.9	-8.0	+2.2	+10.2	+9.9
1977 1st quarter	4,634	118	128	1,414	2,413	561
2nd quarter	3,317	82	125	1,359	1,371	380
3rd quarter	2,372	153	113	1,155	771	180
4th quarter	4,256	166	119	1,470	2,035	466
1978 1st quarter	5,257	165	118	1,523	2,808	643
2nd quarter	3,344	25	113	1,409	1,393	404
3rd quarter	2,416	69	110	1,163	866	208
4th quarter	4,291	79	105	1,424	2,194	489
1979 1st quarter p	5,909	30	117	1,509	3,459	794
Per cent change	+12.4	(-)	-0.8	-0.9	+23.2	+23.5

1. Public supply and transport power stations. 2. Public administration and commerce.

Electricity

TABLE 9. Fuel used and electricity generated by the public supply system

	Fuel used						Electricity generated			Own ⁵ use	Electricity supplied	Total ⁶ electricity available
	Total ¹	Coal ²	Oil ^{2 3}	Natural gas	Nuclear electricity	Hydro electricity	Total ⁴	By steam plant				
								Nuclear	Other			
Million tonnes coal or coal equivalent						TWh						
United Kingdom												
1975	110.72	74.57	21.48	3.42	9.44	1.67	251.26	26.52	219.69	18.02	233.24	237.30
1976	110.51	77.82	17.05	2.55	11.40	1.64	254.92	32.42	217.50	19.16	235.76	239.47
1977	113.98	79.56	17.98	1.76	12.88	1.73	262.04	36.42	220.19	19.56	242.48	246.31
1978	115.14	80.87	19.49	1.01	11.89	1.76	266.79	33.34	228.19	18.79	248.00	251.92
Per cent change	+1.0	+1.6	+8.4	-42.6	-7.7	+1.7	+1.8	-8.5	+3.7	-4.0	+2.3	+2.3
1978 Jan-May	51.68	35.53	9.19	0.57	5.54	0.81	119.85	15.50	101.98	8.43	111.42	113.11
1979 Jan-May p	55.71	39.67	9.56	0.19	5.45	0.77	128.39	15.34	110.73	8.73	119.66	121.33
Per cent change	+7.8	+11.7	+4.0	-66.7	-1.6	-4.9	+7.1	-1.0	+8.6	+3.6	+7.4	+7.3
1978 Mar*	11.99	8.06	2.06	0.18	1.44	0.24	28.01	4.01	23.35	1.97	26.04	26.46
Apr	9.42	6.43	1.84	—	0.97	0.16	21.77	2.74	18.55	1.54	20.23	20.55
May	8.10	5.78	1.48	—	0.75	0.09	18.77	2.11	16.34	1.33	17.44	17.68
Total	29.51	20.27	5.38	0.18	3.16	0.49	68.55	8.86	58.24	4.84	63.71	64.69
1979 Mar*	13.70	9.73	2.36	0.06	1.31	0.23	31.60	3.68	27.26	2.11	29.49	29.91
Apr	9.45	6.96	1.29	0.06	0.98	0.14	21.65	2.77	18.47	1.51	20.14	20.47
May p	8.81	6.57	1.31	0.06	0.71	0.15	20.12	2.04	17.65	1.41	18.71	18.95
Total	31.96	23.26	4.96	0.18	3.00	0.52	73.37	8.49	63.38	5.03	68.34	69.33
Per cent change	+8.3	+14.8	-7.8	+1.1	-5.1	+6.1	+7.0	-4.2	+8.8	+3.9	+7.3	+7.2
England and Wales												
1975	94.16	65.71	18.24	3.42	8.53	0.09	219.25	23.94	194.33	15.32	203.93	205.44
1976	95.80	69.06	14.06	2.55	10.00	0.08	222.12	28.30	193.11	15.94	206.18	207.57
1977	98.34	70.59	14.93	1.76	10.88	0.11	226.99	30.70	195.09	16.25	210.74	213.33
1978	99.50	72.18	15.94	1.01	10.14	0.11	231.41	28.46	202.08	15.81	215.60	218.51
Per cent change	+1.2	+2.3	+6.8	-42.6	-6.8	-2.6	+1.9	-7.3	+3.6	-2.7	+2.3	+2.4
1978 Jan-May	44.52	31.39	7.60	0.57	4.86	0.05	103.75	13.58	89.75	7.11	96.64	97.94
1979 Jan-May p	48.09	35.77	7.31	0.19	4.69	0.06	110.93	13.23	97.26	7.38	103.55	104.83
Per cent change	+8.0	+14.0	-3.8	-66.7	-3.5	+3.8	+6.9	-2.6	+8.4	+3.8	+7.2	+7.0
1978 Mar*	10.31	7.13	1.71	0.18	1.26	0.02	24.27	3.53	20.65	1.69	22.58	22.87
Apr	8.12	5.62	1.60	—	0.88	—	18.89	2.46	16.34	1.29	17.60	17.83
May	7.01	5.14	1.20	—	0.66	0.01	16.29	1.85	14.36	1.13	15.16	15.33
Total	25.44	17.89	4.51	0.18	2.80	0.03	59.45	7.84	51.35	4.11	55.34	56.03
1979 Mar*	11.77	8.67	1.82	0.06	1.19	0.02	27.22	3.34	23.75	1.80	25.42	25.86
Apr	8.12	6.25	0.97	0.06	0.81	0.01	18.63	2.29	16.28	1.27	17.36	17.68
May p	7.67	5.98	0.97	0.06	0.64	0.01	17.56	1.85	15.63	1.22	16.34	16.42
Total	27.56	20.90	3.76	0.18	2.64	0.04	63.41	7.48	55.66	4.29	59.12	59.96
Per cent change	+8.3	+16.8	-16.6	+1.1	-5.7	+28.6	+6.7	-4.6	+8.4	+4.4	+6.8	+7.0

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 in 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
1973	225,267	11,646	75,327	91,299	46,995
1974	218,552	11,292	70,967	92,626	43,667
1975	217,924	11,164	70,854	89,214	46,692
1976	220,841	12,607	74,986	85,117	48,131
1977	225,655	12,310 ²	76,561 ²	85,902	50,882
1978	230,210	13,063 ²	77,839 ²	85,802	53,506
Per cent change	+2.0	+6.1	+1.7	-0.1	+5.2
1977 1st quarter	67,181	3,273	20,458	28,564	14,886
2nd quarter	52,535	3,054 ²	18,993 ²	18,803	11,685
3rd quarter	46,077	2,911 ²	17,793 ²	14,938	10,435
4th quarter	59,862	3,072 ²	19,317 ²	23,597	13,876
1978 1st quarter	67,732	3,360 ²	20,507 ²	28,266	15,599
2nd quarter	53,374	3,368 ²	19,227 ²	18,627	12,152
3rd quarter	47,163	2,975 ²	18,051 ²	15,166	10,971
4th quarter	61,941	3,360 ²	20,054 ²	23,743	14,784
1979 1st quarter p	73,834	3,431 ²	21,520 ²	31,611	17,272
Per cent change	+9.0	+2.1	+4.9	+11.8	+10.7

1. Mainly commerce, public administration and agriculture. 2. Contains a small degree of estimation.

Petroleum

TABLE 11. Production, arrivals and shipments¹

Thousand tonnes

	Crude Petroleum							Petroleum Products			
	Gross ² Indigenous Production	Supply				Arrivals ^{4 5}	Shipments ^{4 5}	Arrivals ⁴	Shipments ⁴	Net Arrivals	Bunkers ⁶
		Total	Indigenous ²	Net arrivals	Other ³						
1975	1,564	92,273	1,156	+89,942	1,275	91,366	1,524	12,786	13,924	-1,138	3,444
1976	12,036	98,384	11,511	+86,181	692	90,466	4,285	10,709	15,988	-5,279	3,569
1977	37,879	92,260	37,540	+54,038	682	70,697	16,659	13,049	14,294	-1,245	2,829
1978	53,378	96,758	52,557	+43,285	916	68,144	24,859	11,511	13,536	-2,025	2,872
Per cent change	+40.9	+4.9	+40.0	-19.9	+34.2	-3.6	+49.2	-11.8	-5.3		-7.5
1978 Jan-May	19,670	40,039	19,807	+19,851	381	29,042	9,191	5,429	4,699	+730	1,020
1979 Jan-May p	30,052	40,577	30,406	+ 9,966	205	25,073	15,107	5,614	5,114	+500	1,045
Per cent change	+52.8	+1.3	+53.5	-49.8	-46.3	-13.7	+64.4	+3.4	+8.8		+2.5
1978 Mar	3,683	7,342	3,919	+3,361	62	5,347	1,986	1,073	1,056	+17	185
Apr	3,984	8,416	3,940	+4,392	84	5,976	1,584	1,063	1,039	+24	204
May	4,626	7,759	4,568	+3,112	79	5,546	2,434	1,043	1,057	-14	234
Total	12,293	23,517	12,427	+10,865	225	16,869	6,004	3,179	3,152	+27	623
1979 Mar	5,566	7,071	5,446	+1,578	47	4,224	2,646	1,487	937	+550	207
Apr	5,881	7,756	5,933	+1,767	56	4,596	2,829	944	851	+93	184
May p	6,830	8,738	6,844	+1,868	26	5,210	3,342	1,119	1,039	+80	208
Total	18,277	23,565	18,223	+5,213	129	14,030	8,817	3,550	2,827	+723	599
Per cent change	+48.7	+0.2	+46.6	(-)	-42.8	-16.8	+46.9	+11.7	-10.3		-4.1

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 oil	Refinery use		Total output of petrol- eum prod- ucts ²	Gases		Naphtha (LDF)	Motor spirit	Kerosene		Gas/ diesel oil	Fuel oil	Lubri- cating oil	Bitumen
		Fuel	Losses		Butane and propane	Other petro- elum			Aviation turbine fuel	Burning oil ³				
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	2,090
1976	97,784	6,342	1,158	90,284	1,575	158	4,583	15,232	4,163	2,458	24,198	32,695	1,310	1,897
1977	93,615	6,238	1,039	86,338	1,539	142	4,488	14,805	4,004	2,462	23,476	30,481	1,380	1,882
1978	96,390	6,423	811	89,156	1,613	147	4,626	15,958	4,783	2,614	24,024	30,518	1,203	1,866
Per cent change	+3.0	+3.0	-21.9	+3.3	+4.8	+3.6	+3.1	+7.8	+19.5	+6.2	+2.3	+0.1	-12.8	+0.2
1978 Jan-May	40,077	2,693	400	36,984	699	62	2,002	6,253	1,813	1,291	10,124	12,896	449	736
1979 Jan-May p	40,525	2,698	298	37,529	738	69	2,156	6,465	2,043	1,353	10,519	12,147	472	681
Per cent change	+1.1	+0.2	-25.4	+1.5	+5.6	+11.5	+7.7	+3.4	+12.7	+4.7	+3.9	-5.8	+5.2	-7.4
1978 Mar	8,558	567	57	7,934	145	12	462	1,268	369	293	2,232	2,745	106	183
Apr	7,955	510	105	7,340	131	14	383	1,236	356	219	1,998	2,598	91	144
May	7,646	528	45	7,073	150	14	356	1,314	392	177	1,917	2,305	99	195
Total	24,159	1,605	207	22,347	426	40	1,211	3,818	1,117	689	6,147	7,648	296	522
1979 Mar	8,047	530	(20)	7,537	156	18	523	1,187	443	273	2,193	2,304	97	174
Apr	7,464	500	65	6,899	136	17	407	1,257	422	214	1,916	2,080	99	161
May p	8,088	527	64	7,497	140	8	365	1,335	462	207	2,150	2,318	109	191
Total	23,599	1,557	109	21,933	432	43	1,295	3,779	1,327	694	6,259	6,702	305	526
Per cent change	-2.3	-3.0	-47.0	-1.9	+1.5	+8.1	+6.9	-1.0	+18.7	+0.7	+1.8	-12.4	+2.9	+0.6

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	Domestic	Other ⁶	Derv fuel	Other			
1975	82,824	1,275	5,116	16,125	3,834	538	1,707	400	5,414	13,050	30,470	992	2,089
1976	81,579	1,330	5,404	16,879	3,989	576	1,686	372	5,594	12,984	27,825	1,011	1,867
1977	82,759	1,320	5,179	17,336	4,165	559	1,677	391	5,711	13,914	27,772	1,029	1,847
1978	84,141	1,318	4,916	18,348	4,506	536	1,696	428	5,875	13,600	28,233	1,021	1,887
Per cent change	+1.7	-0.2	-5.1	+5.8	+8.2	-4.1	+1.1	+9.4	+2.9	-2.3	+1.7	-0.7	+2.2
1978 Jan-May	37,100	613	2,209	7,162	1,633	325	844	212	2,366	6,800	13,139	420	706
1979 Jan-May p	38,160	681	1,828	7,462	1,768	373	929	227	2,403	7,104	13,538	428	654
Per cent change	+2.9	+11.1	-17.2	+4.2	+8.3	+14.6	+10.1	+7.3	+1.6	+4.5	+3.0	+1.9	-7.3
1978 Mar	7,821	132	489	1,531	356	60	184	46	483	1,430	2,715	84	170
Apr	7,364	110	436	1,487	333	51	156	39	486	1,305	2,596	80	148
May	6,883	112	376	1,585	395	24	108	33	494	1,032	2,290	95	182
Total	22,068	354	1,301	4,603	1,084	135	448	118	1,463	3,767	7,601	259	500
1979 Mar	8,276	146	406	1,582	357	71	194	47	540	1,510	2,987	101	165
Apr	6,998	129	383	1,554	362	45	152	41	498	1,223	2,217	85	158
May p	6,958	111	309	1,647	433	23	123	30	535	1,054	2,257	95	184
Total	22,232	386	1,098	4,783	1,152	139	469	118	1,573	3,787	7,461	281	507
Per cent change	+0.7	+9.1	-15.7	+3.9	+6.4	+3.1	+4.5	-1.1	+7.5	+0.5	-1.8	+8.5	+1.4

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

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

Thousand tonnes

	Total	Power stations ³	Gas works	Iron and steel industry	Other industries	Transport ⁴	Domestic	Other ⁵
1975	73,385	13,345	693	3,309	17,251	27,583	3,270	7,935
1976	71,473	10,441	366	3,128	17,487	28,592	3,269	8,183
1977	73,043	10,873	292	2,938	17,701	29,359	3,263	8,617
1978 p	74,702	11,638	342	2,836	17,544	30,877	3,225	8,240
Per cent change	+2.3	+7.0	+17.1	-3.5	-0.9	+5.2	-1.2	-4.4
1978 Jan-Apr	27,040	4,357	122	1,064	6,907	9,393	1,485	3,712
1979 Jan-Apr p	28,335	4,464	148	1,086	7,333	9,744	1,587	3,973
Per cent change	+4.8	+2.5	+20.7	+2.2	+6.2	+3.7	+6.9	+7.0
1978 Feb	6,550	1,116	35	265	1,730	2,048	413	943
Mar	6,944	1,038	29	292	1,742	2,551	357	935
Apr	6,576	1,108	25	243	1,581	2,475	303	841
Total	20,070	3,262	89	800	5,053	7,074	1,073	2,719
1979 Feb	7,281	1,145	39	275	1,997	2,294	452	1,079
Mar	7,446	1,222	34	288	1,859	2,666	368	1,009
Apr p	6,229	753	31	252	1,513	2,598	283	799
Total	20,956	3,120	104	815	5,369	7,558	1,103	2,887
Per cent change	+4.4	-4.4	+18.7	+2.0	+6.3	+6.8	+2.7	+6.2

1. Calendar months. 2. Excludes non-energy products and non-energy use of naphtha (LDF). 3. Public supply, railway and transport power stations.

4. Including fishing, coastal and inland shipping. 5. Mainly public administration, commerce and agriculture.

TABLE 15. Stocks of petroleum at end of month

	Held by oil companies ¹		Power stations ²
	Million tonnes	Estimated days supply ³	Million tonnes
1978 Apr	18.5	85	0.99
May	18.5	89	1.01
Jun	18.7	89	0.95
1979 Apr	16.9	80	0.73
May	17.3	86	0.65
Jun p	18.1	88	0.74

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 tonnes coal equiv.	Million tonnes oil equiv.	Million therms	TWh electrical energy	TWh electricity generated
Million tonnes coal equivalent	1	1.7	0.004	0.135 ¹	0.500 ²
Million tonnes oil equivalent	0.60	1	0.00235	0.0800 ¹	0.280 ²
Million therms	250	425	1	34.0	115
TWh electrical energy	7.35	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 a 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 fuel shown.
 The *Digest of UK Energy Statistics 1978* 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	Engineering and other metal trades	Food drink and tobacco	Coal mining	Chemical and allied trades		Textiles, leather and clothing	Paper, printing and stationery	Other industries (including gas and water works)	
							Nuclear ² power stations	Others ³				
1973	22,995	22,292	2,707	2,716	458	309	4,339	7,859	498	2,763	643	703
1974	22,424	21,775	2,179	3,139	521	251	4,222	7,942	450	2,569	502	649
1975	20,470	19,781	1,660	3,319	435	297	3,820	7,343	406	2,107	394	689
1976	21,714	21,024	1,706	3,362	496	269	3,736	8,434	423	2,218	380	690
1977	20,969	20,268	1,555	3,463	516	278	3,604	7,969	355	2,136	392	701
1978	20,820	20,120	1,345	3,409	520	212	3,885	7,983	335	2,098	333	700
Per cent change	-0.7	-0.7	-13.5	-1.6	+0.8	-23.7	+7.8	+0.2	-5.6	-1.8	-15.1	-0.1
1977 1st quarter	5,706	5,522	503	882	136	69	922	2,171	108	617	114	184
2nd quarter	4,962	4,791	351	885	78	77	802	1,886	93	525	94	171
3rd quarter	4,778	4,611	317	825	71	57	934	1,795	84	446	82	167
4th quarter	5,523	5,344	384	871	231	75	946	2,117	70	548	102	179
1978 1st quarter	5,734	5,547	379	937	130	58	1,087	2,161	90	595	110	187
2nd quarter	4,698	4,525	310	862	77	62	742	1,821	64	511	76	173
3rd quarter	4,851	4,686	285	829	68	51	974	1,876	87	451	65	165
4th quarter	5,537	5,362	371	781	245	41	1,082	2,125	94	541	82	175
1979 1st quarter p	5,566	5,376	349	829	142	56	1,080	2,185	90	549	96	190
Per cent change	-2.9	-3.1	-7.9	-11.5	+9.2	-3.4	-0.6	+1.1	-0.3	-7.7	-12.7	+1.6

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.