DEPARTMENT OF ENERGY

A Statistical Bulletin

MAY 1979

Energy use up in severe winter

Total energy

Coal consumption high in March

Total inland energy consumption on a primary fuel input basis during the first quarter of 1979 was 9.2 per cent higher than in the comparable quarter of last year. Coal and petroleum consumption rose by 7.3 and 6.8 per cent respectively while natural gas use was higher by nearly one fifth.

The seasonally adjusted and temperature corrected statistics indicate a smaller rise of about five per cent in total consumption. However, the recent winter, although not the coldest on record, was described by the Meteorological Office as the most inclement in the last 100 years and it is probable that the normal temperature adjustment does not fully take account of the additional uses of energy caused by the abnormal weather conditions other than temperature, which were a feature of this protracted winter.

Coal

Output lower

Coal production during the three month period February to April totalled 32.8 million tonnes, 4.1 per cent lower than in the corresponding months last year. Deep-mined production was down by four per cent and opencast by 5.4 per cent.

Total coal consumption during the same period rose by nine per cent with power station use up by 12.6 per cent. Colliery disposals to the two principal final consuming sectors were also higher, industrial consumers taking 7.1 per cent more coal than a year ago while disposals of housecoal rose by 3.7 per cent.

Total coal stocks fell by ¾ million tonnes during April to just over 28 million tonnes, including about 14 million tonnes held at collieries and stocking grounds. Power station stocks at the end of April were 11.9 million tonnes, 5.5 million tonnes less than the exceptionally high level at the start of last year's stock-build season.

Productivity at NCB mines during the first four months of 1979, measured in overall output per manshift was 2.26 tonnes, three per cent lower than in the comparable period last year.

Gas

Send-out at high level

Total gas sent out in the three month period February to April was 11.3 per cent higher than in the comparable period a year ago but nearly all of the increase was confined to the first two months of the period. Send out in April was only slightly higher than in April 1978, which was a particularly cold month.

Electricity

Sustained high demand

Total electricity supplied during the first quarter of 1979 was 9.7 per cent higher than in the corresponding quarter of last year. Fuel used for generation, also higher by 9.7 per cent, totalled

37.5 million tonnes coal equivalent of which nearly 70 per cent was coal compared with just over 68 per cent a year ago. With demand for electricity sustained at a very high level throughout the period, oil use for generation rose to seven million tonnes of coal equivalent comprising nearly 19 per cent of total fuel input.

Petroleum

Heating oils in demand

Total inland deliveries of petroleum products during the first three months of 1979 were 24.2 million tonnes, 5.7 per cent higher than in the corresponding period of 1978, the largest increases being in fuels used for heating. Deliveries of fuel oil rose by 9.3 per cent and gas/diesel oil by 8.2 per cent while premium and standard grade burning oil used for domestic heating, rose by 20.8 and 14.3 per cent respectively.

Motor spirit deliveries were higher by 4.1 per cent but diesel oil for road vehicles (derv) was lower by 1.5 per cent in the quarter as a whole, though above last year's levels in both February and March.

Statistical Note

Productivity at NCB mines (Table 6)

The National Coal Board has altered its analysis of underground manshifts worked in order to bring it into line with modern mining techniques. This has led to the introduction of a new measure of output per manshift (OMS) called "Production OMS", and the loss of the current measure, "Face OMS".

The principal productivity measure covering all operations in the coal industry, overall OMS, is unchanged. However, the series for OMS at the face is discontinued after March 1979 and is replaced by (a) total underground OMS and (b) production OMS. The latter series is restricted to production operations and covers shifts worked directly on or associated with production faces and the coal produced from them. Total underground OMS covers all revenue shifts worked underground and all revenue output, including development output.

Figures for production OMS are available only from April 1979 and are not comparable with the series of OMS at the face published previously.

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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 calender 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.

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 energy

TABLE 1. Inland energy consumption: primary fuel input basis

	Total	Coal ¹	Petroleum ²	Natural ³ gas	Nuclear electricity	Hydro- electricity
	Million	tonnes of	coal or coal ed	uivalent		
1973 1974 1975 1976 1977 1978 p Per cent change	353.5 337.5 324.8 329.8 338.4 338.6 +0.1	133.0 117.9 120.0 122.0 122.7 119.7 -2.5	164.2 152.5 136.5 134.2 136.6 139.1 +1.9	44.2 52.9 55.4 58.8 62.8 64.3 +2.5	10.1 12.1 10.9 12.9 14.3 13.4 -6.2	2.0 2.1 2.0 1.9 2.0 2.1 +1.2
1978 Jan Feb Mar*	31.2 32.0 35.5	10.8 11.2 12.1	11.7 12.2 14.2	7.2 7.0 7.4	1.3 1.4 1.5	0.2 0.2 0.3
Total	98.7	34.1	38.1	21.6	4.2	0.7
1979 Jan Feb Mar*	33.2 34.5 40.0	10.9 11.6 14.1	12.4 13.3 14.9	8.4 8.1 9.2	1.3 1.4 1.5	0.2 0.1 0.3
Total	107.7	36.6	40.6	25.7	4.2	0.6
Per cent change	+9.2	+7.3	+6.8	+18.9	-1.0	-11.3
	Seasona	IIv adiuste	d and tempera	ture corre	cted ⁴ (annu	ial rates)

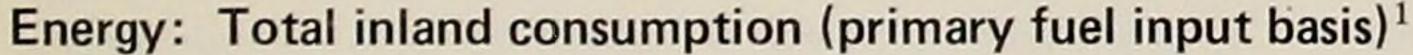
	Total	Coal 1	Petroleum ²	Natural gas	Nuclear	Hydro- electricity
	Million	tonnes of	oil or oil equi	ivalent		
The same of the sa	207.9 198.6 191.1 194.0 199.0 199.2 +0.1	78.2 69.3 70.6 71.8 72.2 70.4 -2.5	96.6 89.7 80.3 78.9 80.3 81.8 +1.9	26.0 31.2 32.6 34.6 36.9 37.9 +2.5	5.9 7.1 6.4 7.6 8.4 7.9 -6.2	1.2 1.3 1.2 1.1 1.2 1.2 +1.2
	18.4 18.8 20.9	6.4 6.6 7.1	6.9 7.2 8.3	4.2 4.1 4.4	0.8 0.8 0.9	0.1 0.1 0.2
	58.1	20.1	22.4	12.7	2.5	0.4
	19.6 20.3 23.5	6.5 6.8 8.2	7.3 7.8 8.8	4.9 4.8 5.4	0.8 0.8 0.9	0.1 0.1 0.2
	63.4	21.5	23.9	15.1	2.5	0.4
	+9.2	+7.3	+6.8	+18.9	-1.0	-11.3

	Seasonally adjusted and temperature corrected ⁴ (annual rates)												
1978 Jan Feb Mar* p	329.9 329.2 335.0	115.5 117.3 118.4	133.3 133.2 133.9	64.5 62.1 66.5	15.1 15.1 13.9	1.5 1.5 2.3							
Average	331.6	117.2	133.5	64.5	14.6	1.8							
1979 Jan Feb Mar* p	342.4 348.9 353.6	119.4 117.1 126.9	136.2 143.9 137.7	69.6 71.4 73.9	15.7 15.2 13.1	1.5 1.3 2.0							
Average	348.7	121.6	139.2	71.8	14.5	1.6							
Per cent change	+5.2	+3.7	+4.2	+11.3	-0.7	-7.9							

194.0 193.7 197.1	67.9 69.0 69.7	78.4 78.4 78.8	37.9 36.5 39.1	8.9 8.9 8.2	0.9 0.9 1.3
195.1	68.9	78.5	38.0	8.6	1.1
201.4 205.2 208.0	70.2 68.9 74.6	80.1 84.6 81.0	41.0 42.0 43.5	9.2 8.9 7.7	0.9 0.8 1.2
205.1	71.5	81.9	42.2	8.5	1.0
+5.2	+3.7	+4.2	+11.3	-0.7	-7.9

- 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. Excluding gas flared or reinjected. 4. Coal, petroleum and natural gas are temperature corrected.



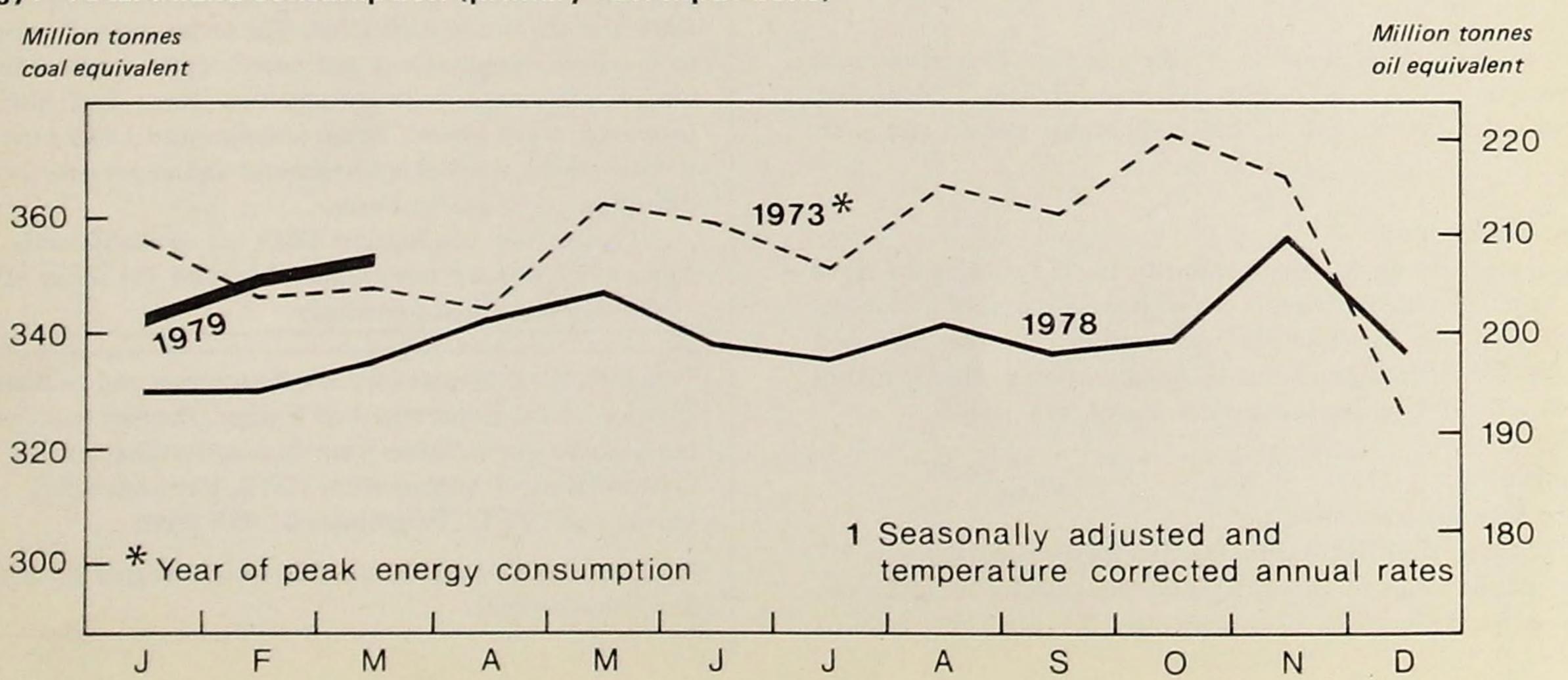


TABLE 2. Supply and use of fuels Million the									herms				
				1976		19	77			197	78p		0 1
	1977	1978p	Per cent change	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	Per cent
PRIMARY FUELS AND EQU	JIVALEN	TS:											
Production of primary fuels Coal Petroleum Natural gas Primary electricity	29,682 16,350 15,024 3,761	29,930 23,118 14,184 3,620	+0.8 +41.4 -5.6 -2.7	8,147 2,277 4,517 929	7,604 3,305 4,916 1,070	7,514 4,214 3,459 877	6,405 4,337 2,497 852	8,159 4,494 4,152 962	7,643 4,839 4,974 1,144	7,427 5,701 3,228 806	6,502 5,846 2,188 732	8,358 6,732 3,794 938	+2.4 +49.8 -8.6 -2.5
Total	64,817	70,852	+9.3	15,870	16,895	16,064	14,091	17,767	18,600	17,162	15,268		+11.6
Arrivals, Petroleum ⁴ Other	35,730 1,366	33,995 2,589	-4.8 (+)	11,073 226	9,615 195	9,116	8,253 371	8,746 601	8,892 641	8,243 456	7,860 512	9,000	+8.9
Shipments Bunkers	13,841 1,168	17,059 1,062	+23.2 -9.1	2,856 370	2,973 316	3,651 309	3,886 292	3,331 251	3,407 240	4,002 279	4,774 248	4,876 295	+46.4
Stock change Solid fuels Crude Petroleum Petroleum products	+238 +555 +424	-577 -390 +169		+262 -511 +390	+1,252 +375 +564	-385 -352 -225	-194 +253 -309	-435 -279 +394	+459 +92 +185	-483 -427 +215	-369 +428 -480	-184 -483 +249	
Non-energy use Statistical difference ⁶	4,373 -68	4,035 -679	-7.7	1,040 +21	1,123 -337	1,110 +319	1,109 -10	1,031 -40	1,016 +8	1,018 -190	1,036 -188	965 -309	-6.4
Total primary energy input	83,680	83,789	+0.1	23,065	24,147	19,666	17,168	22,699	24,200	19,677	16,973	22,939	+1.1
Conversion losses etc. ³	25,148	24,598	-1.2	6,967	7,274	5,854	5,263	6,757	7,060	5,756	5,139	6,643	-1.7
Final energy consumption	58,532	59,191	+1.1	16,098	16,873	13,812	11,905	15,942	17,140	13,921	11,834	16,296	+2.2
FINAL CONSUMPTION BY	USER												
Coal Other solid fuel Other coal-derived fuels Gas Electricity Petroleum	66 2,394 362 485 389 1,205	50 2,196 330 446 411 1,161	-24.2 -8.3 -8.8 -8.0 +5.7 -3.6	20 703 97 119 109 346	23 663 94 128 104 352	15 593 89 125 96 286	10 600 95 113 92 256	18 538 84 119 97 311	16 553 81 118 106 336	11 568 91 113 106 285	9 480 73 110 93 233	14 595 85 105 106 307	-22.2 +10.6 +1.2 -11.8 +9.3 -1.3
Total	4,901	4,594	-6.2	1,394	1,364	1,204	1,166	1,167	1,210	1,174	998	1,212	+3.9
Other industries Coal Other solid fuel Other coal-derived fuels Gas Electricity Petroleum	2,295	2,184 154 58 5,570 2,457 7,412	-4.8 -1.3 -21.6 +2.1 +1.9 -1.4	696 37 15 1,466 638 2,090	618 38 19 1,431 645 2,245	530 38 23 1,373 599 1,774	483 35 19 1,171 559 1,428	664 45 13 1,483 608 2,073	623 45 17 1,536 648 2,150	507 27 15 1,425 607 1,702	402 35 15 1,169 568 1,352	652 47 11 1,440 634 2,208	-1.8 +4.4 -15.4 -2.9 +4.3 +6.5
Total	17,914	17,835	-0.4	4,942	4,996	4,337	3,695	4,886	5,019	4,283	3,541	4,992	+2.2
Transport sector Coal and other solid fuel Electricity Petroleum	20 100 12,931	20 102 13,603	+2.0 +5.2	8 26 3,177	6 26 2,988	4 26 3,218	3 23 3,420	7 25 3,305	6 27 3,046	4 25 3,456	3 24 3,635	7 26 3,466	- +4.0 +4.9
Total	13,051	13,725	+5.2	3,211	3,020	3,248	3,446	3,337	3,079	3,485	3,662	3,499	+4.9
Domestic sector Coal Other solid fuel Gas Lectricity Petroleum	3,230 843 6,590 2,932 1,450	2,968 780 7,261 2,928 1,423	-8.1 -7.5 +10.2 -0.1 -1.9	811 188 2,050 863 472	850 227 2,413 972 518	773 204 1,371 638 295	703 223 771 511 205	904 189 2,035 811 432	761 192 2,808 965 520	724 197 1,393 636 277	647 196 866 517 201	836 195 2,194 810 425	-7.5 +3.2 +7.8 -0.1 -1.6
Total 12	15,045	15,360	+2.1	4,384	4,980	3,281	2,413	4,371	5,246	3,227	2,427	4,460	+2.0
Other final users 12 Coal Other solid fuel 9 Gas 11 Electricity Petroleum	544 166 1,587 1,689 3,635	515 162 1,744 1,778 3,478	-5.3 -2.4 +9.9 +5.3 -4.3	158 34 464 465 1,046	166 50 561 495 1,241	118 36 380 386 822	83 45 180 346 531	177 35 466 462 1,041	168 42 643 519 1,214	118 39 404 403 788	85 41 208 363 509	144 40 489 493 967	-18.6 +14.3 +4.9 +6.7 -7.1
Total final users	7,621	7,677	+0.7	2,167	2,513	1,742	1,185	2,181 15,942	2,586 17,140	1,752	1,206	2,133 16,296	-2.2 +2.2
Total final users FINAL CONSUMPTION BY	58,532 FUEL	59,191	+1.1	16,098	16,873	13,812	11,905	15,942	17,140	13,921	11,034	10,290	1 2.2
Coal Other solid fuel Other coal derived fuels Gas Electricity Petroleum	6,154 3,560 436 14,120 7,521 26,741	5,737 3,292 388 15,021 7,676 27,077	-6.8 -7.5 -11.0 +6.4 +2.1 +1.3	1,692 963 112 4,099 2,101 7,131	1,663 978 113 4,533 2,242 7,344	1,440 871 112 3,249 1,745 6,395	1,282 903 114 2,235 1,531 5,840	1,769 808 97 4,103 2,003 7,102	1,574 822 98 5,105 2,265 7,266	1,364 831 106 3,335 1,777 6,508	1,146 752 88 2,353 1,565 5,930	1,653 877 96 4,228 2,069 7,373	-6.6 +8.5 -1.0 +3.0 +3.3 +3.8
Total all fuels	58,532		+1.1	-	16,873			15,942	17,140		11,834	16,296	+2.2
								The state of the s	1				

^{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.

Thousand tonnes

			Production					Tonnage los	t (deep-mined) ³
	Net inland supply	Total ¹	Deep-mined	Opencast	Net imports	Imports ²	Exports ²	Recognised holidays and rest days	Disputes
1975 1976 1977 1978	131,583 125,201 122,648 123,663	128,682 123,800 122,150 123,577	117,411 110,264 107,123 107,528	10,414 11,944 13,551 14,167	+2,901 +1,401 +498 +86	5,083 2,837 2,439 2,352	2,182 1,436 1,941 2,266	12,300 12,345 12,457 12,606	352 1,157 814 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-Apr 1979 Jan-Apr p	44,286	44,100 41,641	39,109 37,135 -5.0	4,441 3,962 -10.8	+186	842	656	1,479 1,590 +7.5	481 348 -27.7
Per cent change 1978 Feb Mar* Apr	10,760 12,485 10,998	-5.6 10,756 12,480 10,977	9,562 11,000 9,638	994 1,305 1,214	+4 +5 +21	166 210 153	162 205 132	1,038	99 162 150
Total	34,243	34,213	30,200	3,513	+30	529	499	1,038	411
1979 Feb Mar* Apr p		10,253 13,226 9,341	9,078 11,752 8,166	977 1,372 974				933	84 52 115
Total		32,820	28,996	3,323				933	251
Per cent change		-4.1	-4.0	-5.4				-10.1	-38.9

^{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

				Fuel produce	rs			Final	users 1			
		Primary		Sec	ondary			Colliery disposals				
	Total inland		Power	Coke	Gas	Other ³ conversion		Dome	stic ⁵			
	consumption	Collieries	stations ²	ovens	works	industries	Industry ⁴	House coal ⁶	Other ⁷	Other ⁸		
1975 1976 1977 1978	122,216 123,603 123,978 120,477	1,238 1,132 1,124 1,010	74,569 77,818 79,956 80,643	19,085 19,401 17,406 14,946	10 8 7 6	4,063 3,405 3,166 3,064	9,685 8,970 9,033 8,550	9,915 9,450 9,635 8,699	1,703 1,374 1,503 1,518	1,948 2,045 2,148 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-Apr 1979 Jan-Apr	43,856 46,909	413 375	29,756 33,196	4,964 4,694	2 3	990 988	3,249 3,243	3,104 3,076	503 467	875 867		
Per cent change	+7.0	-9.2	+11.6	-5.4	+50.0	-0.2	-0.2	-0.9	-7.2	-0.9		
1978 Feb Mar* Apr	11,194 12,111 9,697	103 117 99	7,742 8,058 6,432	1,159 1,473 1,184	1 1 -	241 276 227	889 871 702	717 895 767	111 156 111	231 264 175		
Total	33,002	319	22,232	3,816	2	744	2,462	2,379	378	670		
1979 Feb p Mar* p Apr p	11,565 14,094 10,302	93 115 78	8,242 9,752 7,065	1,066 1,414 1,206	1 1 -	232 298 250	832 1,086 719	765 1,019 682	97 167 142	237 269 160		
Total	35,961	286	25,032	3,686	2	780	2,637	2,466	406	666		
Per cent change	+9.0	-10.3	+12.6	-3.4	-	+4.8	+7.1	+3.7	+7.4	-0.6		

^{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. 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 and commerce.

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

Thousand tonnes

				Distributed				Undistribut	ed
	Total	Total distributed stocks	Power stations	Coke	Gas works	Other	Total undistributed stocks	Collieries	Open cast 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 Feb	28,732	18,813	16,644	2,005	2	162	9,919	8,411	1,508
Mar	29,256	19,079	17,047	1,859	2	171	10,177	8,628	1,549
Apr	30,246	19,365	17,432	1,757	2	174	10,881	9,178	1,703
1979 Feb p	29,637	14,916	12,983	1,756	2	175	14,721	11,952	2,769
Mar p	28,822	14,591	12,322	2,075	2	192	14,231	11,535	2,696
Apr p	28,068	14,116	11,889	2,045	2	180	13,952	11,306	2,646
Absolute change:								,	_,0.0
in latest month	-754	-475	-433	-30	_	-12	-279	-229	-50
On a year ago	-2,178	-5,249	-5,543	+288	-	+6	+3,071	+2,128	+943

^{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

		earners on					•	Average o	utput per n	nanshift ³
		ery books1	Recruitment	Wastage		ence percenta			Unde	rground ⁴
	Total	Underground			Total	Voluntary	Involuntary	Overall	Total	Production
	Th	ousands	Num	ber		Per cent			Tonnes	1100000
1973 1974 1975 1976 1977 1978	245 246 245 241 239 232 ⁴	193 194 194 192 189 184 ⁴	17,402 26,436 21,347 17,061 29,361 20,595	37,961 25,133 22,451 21,239 31,647 27,653	18.0 16.3 16.2 17.4 17.6 17.3	4.1 4.0 3.7 3.9 4.3	13.9 12.2 12.2 13.7 13.7 13.0	2.29 2.18 2.28 2.23 2.18 2.25	2.95 2.80 2.92 2.84 2.78 2.88	
Per cent change 1978 Jan-Apr 1979 Jan-Apr p Per cent change	-2.9 239 232 -2.9	-2.6 190 185 -2.6	-29.9 9,010 7,875 -12.6	-12.6 7,759 6,806 -12.3	19.0 18.2	4.8 5.2	14.2	+3.2 2.33 2.26 -3.0	+3.6 2.95 2.87 -2.7	
1978 Feb Mar* Apr	239 239 240	189 190 190	2,239 2,276 2,652	1,892 2,151 1,849	20.6 18.9 17.5	5.0 4.7 4.9	15.6 14.2 12.6	2.36 2.33 2.36	2.99 2.96 2.98	
1979 Feb Mar* Apr	232 232 233	185 185 185	2,041 2,357 1,790	1,580 2,044 1,653	19.4 18.2 16.5	5.4 5.1 5.1	14.0 13.1 11.4	2.28 2.31 2.22	2.89 2.93 2.81	8.46

^{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 on the front page of this issue.

Gas

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

		Natural gas suppl	У	Other fu	iel used		Gas sent out			
	Total	Source	e ¹					Natural ⁴ gas for		
	system	Indigenous	Imported ²	Coal	Oil ³	Total	Town	direct		
		Million therms	S	Thousand	tonnes		Million therms			
1973	10,916	10,639	277	512	2,320	11,620	2,434	9,186		
1974	13,102	12,861	241	107	1,276	13,451	1,598	11,853		
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 p	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 Feb	1,785	1,646	139		57	1,798	4	1,794		
Mar*	1,871	1,733	138	1	21	1,871	4	1,867		
Apr	1,443	1,313	130	1	13	1,443	3	1,440		
Total	5,099	4,692	407	2	91	5,112	11	5,101		
1979 Feb	1,934	1,637	297	1	26	1,953	4	1,949		
Mar*	2,280	1,910	370	1	20	2,283	4	2,279		
Aprp	1,453	1,220	233	1	16	1,455	4	1,451		
Total	5,667	4,767	900	3	62	5,691	12	5,679		
Per cent change	+11.1	+1.6	(+)	+36.6	-31.9	+11.3	+9.1	+11.3		

^{1.} Figures differ from production and imports respectively because of stock changes and small quantities not entering the public supply system.

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
1976 4th quarter	4,218	133	119	1,452	2,050	464
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
978 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
Per cent change	+0.8	-52.4	-4.5	-3.1	+7.8	+4.9

^{1.} Public supply and transport power stations. 2. Public administration and commerce.

^{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).

Electricity

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

	Fuel use	d					Electricity	generated				
						Liveles		By st	eam plant	Own ⁵	Electricity	Total ⁶ electricity
	Total 1	Coal ²	Oil ^{2 3}	Natural gas	Nuclear electricity	Hydro electricity	Total ⁴	Nuclear	Other	use	supplied	available
	Million t	onnes coa	al or coal ed	quivalent			TWh					
United Kingdom								00.00	200.00	10.40	240.27	244.70
1973	116.52	76.78	28.49	1.15	8.35	1.69	258.80	23.66	229.89	18.43	240.37	244.76
1974	112.26	67.03	28.97	3.92	10.44	1.84	250.47	29.40	215.70	18.07	232.40	236.68
1975	110.72	74.57	21.48	3.42	9.44	1.67	251.26	26.52 32.42	217.50	19.16	235.76	239.47
1976	110.51	77.82	17.05	2.55	11.40	1.64	254.92 262.04	36.42	220.06	19.56	242.48	246.02
1977	113.98	79.56	17.98	1.76	12.88	1.73	266.78	33.34	228.26	18.78	248.00	251.87
1978 p	115.14	80.87	19.49 +8.4	1.01 -42.6	-7.7	+1.7	+1.8	-8.5	+3.7	-4.0	+2.3	+2.4
Per cent change	+1.0	+1.6	70.4	-42.0	-/./		. 7.0	0.0				
1978 Jan	10.93	7.52	1.83	0.23	1.16	0.18	25.22	3.25	21.46	1.78	23.44	23.78
Feb	11.24	7.74	1.98	0.16	1.21	0.14	26.09	3.39	22.28	1.82	24.27	24.64
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
Total	34.16	23.32	5.87	0.57	3.81	0.56	79.32	10.65	67.09	5.57	73.75	74.88
1979 Jan	11.86	8.16	2.32	_	1.22	0.14	27.44	3.39	23.59	1.85	25.59	25.91
Feb p	11.89	8.24	2.29	-	1.24	0.11	27.59	3.46	23.76	1.85	25.74	26.09
Mar* p	13.74	9.76	2.36	0.06	1.31	0.23	31.69	3.69	27.33	2.11	29.58	30.00
Total	37.49	26.16	6.97	0.06	3.77	0.48	86.72	10.54	74.68	5.81	80.91	82.00
Per cent change	+9.7	+12.2	+18.7	(-)	-1.1	-14.3	+9.3	-1.0	+11.3	+4.3	+9.7	+9.5
England and Wales												
1973	101.03	68.22	23.94	1.15	7.57	0.09	225.24	21.42	202.18	16.24	209.00	212.72
1974	97.63	59.57	24.39	3.92	9.58	0.12	218.85	26.93	190.32	15.89	202.96	205.55
1975	94.16	65.71	18.24	3.42	8.53	0.09	219.25	23.94	194.33	15.32	203.93	206.39
1976	95.80	69.06	14.06	2.55	10.00	0.08	222.12	28.30	193.11	15.94	206.18	207.62
1977	98.34	70.59	14.93	1.76	10.88	0.11	226.99	30.71	195.10	16.26	210.73	213.19
1978 p	99.50	72.18	15.94	1.01	10.14	0.11	231.41	28.46	202.08	15.81	215.60	218.54
Per cent change	+1.2	+2.3	+6.8	-42.6	-6.8	-2.6	+1.9	-7.3	+3.6	-2.8	+2.3	+2.5
1978 Jan	9.39	6.66	1.49	0.23	0.99	0.01	21.78	2.76	18.94	1.49	20.29	20.61
Feb	9.68	6.84	1.60	0.16	1.07	0.01	22.53	2.99	19.46	1.52	21.01	21.30
Mar*	10.31	7.13	1.71	0.18	1.26	0.12	24.27	3.53	20.65	1.69	22.58	22.87
Total	29.38	20.63	4.80	0.57	3.32	0.04	68.58	9.28	59.05	4.70	63.88	64.78
1979 Jan	10.27	7.44	1.78	-	1.02	0.01	23.71	2.86	20.76	1.55	22.16	22.39
Feb p	10.26	7.43	1.77	-	1.04	0.01	23.81	2.89	20.84	1.54	22.27	22.49
Mar* p	11.82	8.70	1.83	0.06	1.19	0.02	27.34	3.36	23.85	1.80	25.54	25.97
Total	32.35	23.57	5.38	0.06	3.25	0.04	74.86	9.11	65.45	4.89	69.97	70.85
Per cent change	+10.1	+14.3	+12.1	(-)	-2.1	-5.3	+9.2	-1.8	+10.8	+4.0	+9.5	+9.4

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.
 Includes net imports and purchases from outside sources mainly UKAEA and British Nuclear Fuels Ltd. The England and Wales figures include net exhanges 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	12,607 12,310 ²	76,5612	85,902	50,882
1978	230,210	13,063 ²	74,986 76,561 ² 77,839 ²	85,802	53,506
Per cent change	+2.0	+6.1	+1.7	-0.1	+5.2
1976 4th quarter	62,957	3,453	20.203	25,296	14.005
1977 1st quarter	67,181	3,273	20,458	28,564	14,886
2nd quarter	52,535	3,0542	18,9932	18,803	11,685
3rd quarter	46,077	2,9112	17,7932	14,938	10,435
4th quarter	59,862	3,0722	19,317 ²	23,597	13,876
978 1st quarter	67,732	3,360 ²	20,5072	28,266	15,599
2nd quarter	53,374	3,360 ² 3,368 ²	19,2272	18,627	12,152
3rd quarter	47,163	2,9752	18,0512	15,166	10,971
4th quarter	61,941	2,975 ² 3,360 ²	20,0542	23,743	14,784
Per cent change	+3.5	+9.4	+3.8	+0.6	+6.5

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

TABLE 11. Production, arrivals and shipments¹

	Crude Petro	leum		Petroleun	Petroleum Products						
	Gross ²	Supply									
	Indigenous Production	Total	Total Indigenous ²		Other ³	Arrivals ^{4 5}	Shipments ^{4 5}	Arrivals ⁴	Shipments ⁴	Net Arrivals	Bunkers ⁶
1973	373	114,032	235	+112,237	1,560	115,472	3,235	18,300	17,404	+ 896	5,499
1974	410	113,478	250	+111,418	1,810	112,822	1,404	14,537	14,631	-94	4,759
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 p	53,378	96,758	52,557	+43,285	916	68,144	24,859	11,511	13,536	-2.025	2,617
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	3,766	8,243	3,676	+4,505	62	6,052	1,547	1,137	851	+286	205
Feb	3,610	8,278	3,703	+4,481	94	6,121	1,640	1,113	696	+417	191
Mar	3,683	7,342	3,919	+3,361	62	5,347	1,986	1,073	1,056	+17	185
Total	11,059	23,863	11,298	+12,347	218	17,520	5,173	3,323	2,603	+720	581
1979 Jan	6,104	9,144	6,227	+2,868	49	5,934	3,066	1,168	1,194	-26	207
Feb	5,670	7,868	5,956	+1,885	27	5,109	3,224	894	1,093	-199	240
Mar p	5,566	7,073	5,446	+1,580	47	4,224	2,644	1,488	937	+551	197
Total	17,340	24,085	17,629	+6,333	123	15,267	8,934	3,550	3,224	+326	644
Per cent change	+56.8	+0.9	+56.0	-48.7	-43.7	-12.9	+72.7	+6.8	+23.8	(-)	+10.9

^{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-		Refinery		Gara				Varan					
	put of crude and process oil	Fuel		Total output of petrol-eum products ²	Butane and propane	Other	Naphtha (LDF)	Motor	Aviation turbine fuel	Burning oil 3	Gas/ diesel oil	Fuel	Lubri- cating oil	Bitumen
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	2,090
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 p	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	8,391	574	56	7,761	146	11	421	1,287	354	336	2,080	2,816	85	112
Feb	7,527	515	137	6,875	127	12	370	1,149	341	266	1,897	2,432	67	102
Mar	8,558	567	57	7,934	145	12	462	1,268	369	293	2,232	2,745	106	183
Total	24,476	1,656	250	22,570	418	35	1,253	3,704	1,064	895	6,209	7,993	258	397
1979 Jan	8.636	599	104	7,933	148	14	448	1,377	352	306	2,201	2,763	89	68
Feb	8,290	542	85	7,663	158	13	413	1,309	365	353	2,059	2,682	77	88
Mar	8,049	530	(18)	7,537	156	18	522	1,186	443	272	2,193	2,304	98	174
Total	24,975	1,671	171	23,133	462	45	1,383	3,872	1,160	931	6,453	7,749	264	330
Per cent change	+2.0	+1.0	-31.5	+2.5	+10.4	+29.5	+10.5	+4.6	+8.9	+4.1	+3.9	-3.1	+2.3	-16.9

^{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

						Ke	rosene						
				2			Burning oi		Gas/die	sel oil			
		Butane ⁴			Aviation		Standa	rd				Lubri-	
	Total ^{2 3}	and propane	Naphtha (LDF) ⁵	Motor spirit	turbine fuel	Premier	Domestic	Other ⁶	Derv	Other	Fuel	cating	Bitumen
1973	99,786	1,600	8,373	16,927	4,202	788	1,931	501	5,658	15,100	39,447	1,185	2,458
1974	93,409	1,414	7,700	16,484	3,690	603	1,770	436	5,518	13,581	36,810	1,045	2,241
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 p	84,141	1,318	4,916	18,348	4,506	536	1,696	428	5,875	13,600	28,233	1,027	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	7,745	135	443	1,369	307	92	199	44	466	1,540	2,841	85	102
Feb	7,288	124	465	1,191	243	99	196	49	437	1,493	2,698	77	105
Mar	7,821	132	489	1,531	356	60	184	46	483	1,430	2,715	84	170
Total	22,854	391	1,397	4,091	906	251	579	139	1,386	4,463	8,254	246	377
1979 Jan	7,998	145	385	1,347	303	125	234	53	377	1,660	3,113	61	55
Feb	7,930	149	346	1,332	312	109	227	57	453	1,659	2,963	86	92
Mar p	8,235	144	413	1,580	358	68	202	44	535	1,509	2,949	100	166
Total	24,163	438	1,144	4,259	973	302	663	154	1,365	4,828	9,025	247	313
Per cent change	+5.7	+12.1	-18.1	+4.1	+7.5	+20.8	+14.3	+10.8	-1.5	+8.2	+9.3	+0.6	-16.9

^{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.

	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	27,583	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
1977 Dec	7,266	1,293	35	241	1,797	2,515	410	975
978 Jan	6,970	1,095	34	264	1,854	2,319	412	992
Feb	6,550	1,116	35	265	1,730	2,048	413	943
Total	20,786	3,504	104	770	5,381	6,882	1,235	2,910
978 Dec	7,100	1,259	34	247	1,745	2,510	409	896
979 Jan	7,379	1,344	43	272	1,963	2,186	485	1,086
Feb p	7,281	1,145	39	277	1,995	2,294	452	1,079
Total	21,760	3,748	116	796	5,703	6,990	1,346	3,061
Per cent change	+4.7	+6.9	+11.4	+3.5	+6.0	+1.6	+9.0	+5.2

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

TABLE 15. Stocks of petroleum at end of month

	Held by oil	Held by oil companies ¹						
	Million tonnes	Estimated days supply 3	Million tonnes					
1978 Feb	19.7	78	1.08					
Mar	18.4	78	1.03					
Apr	18.5	85	0.99					
1979 Feb	17.7	68	0.81					
Mar	16.4	69	0.76					
Apr p	17.1	78	0.73					

Stocks of petroleum products plus the product equivalent of crude and process oils held at refineries, and products in the wholesale distribution system.
 Fuel oil held at main oil burning stations in Great Britain.
 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	Million tonnes coal equiv.	Million tonnes oil equiv.	Million	TWh electrical energy	TWh electricity generated
Million tonnes coal equivalent	1	1.7	0.004	0.1351	0.500 ²
Million tonnes oil equivalent	0.60	1	0.00235	0.0800	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		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 Values of fuel imports and exports¹

£ million

	Imports (c.i.f.)								Exports (f.o.b.)					
		Other		Petro					Other					
	Coal	solid fuel ²	Natural gas	Crude	Refined ³	Electricity	Total	Coal	solid fuel ²	Petroleum ³	Electricity	Total		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		
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	3,856.3	701.9	0.4	4,636.0	20.8	46.9	701.0	-	768.7		
1975	105.6	7.8	13.9	3,462.9	718.6	1.1	4,309.0	36.1	54.6	722.9	0.1	813.7		
1976	82.7	9.0	20.3	4,585.8	954.1	-	5,651.9	30.6	47.7	1,175.4	1.1	1,254.8		
1977	78.1	11.5	43.2	4,094.1	1,001.6	-	5,228.5	43.7	45.6	1,977.4	-	2,006.7		
1978	77.0	6.5	187.7	3,527.7	1,015.9	-	4,814.8	51.5	47.2	2,276.0	-	2,374.7		
Per cent change	-1.3	-43.3	(+)	-13.8	+1.4	_	-7.9	+17.8	+3.6	+15.1	-	+14.9		
1977 1st quarter	15.3	2.3	3.4	1,173.1	254.1	-	1,448.2	11.3	13.8	454.9	-	480.0		
2nd quarter	14.4	3.2	3.8	1,099.4	263.9	-	1,384.7	11.3	12.1	498.2	_	521.6		
3rd quarter	27.6	3.1	4.4	923.7	236.1	_	1,194.9	11.6	10.1	586.2	-	607.9		
4th quarter	20.8	2.9	31.6	897.9	247.5	-	1,200.7	9.5	9.6	438.1	-	457.2		
1978 1st quarter	21.5	2.1	49.9	970.1	281.9	_	1,325.5	11.7	10.3	474.7	-	496.7		
2nd quarter	16.5	1.2	35.1	806.7	239.0	-	1,098.5	11.1	13.1	529.2	-	553.4		
3rd quarter	21.1	1.5	22.0	890.7	227.2	-	1,162.5	11.8	13.1	664.4	-	689.4		
4th quarter	17.9	1.7	80.7	860.2	267.8	-	1,228.3	16.8	10.7	607.7	-	635.2		
1979 1st quarter p						_					_			
Per cent change			-			_					_			

^{1.} The figures correspond to those published in Section 3 of the "Overseas Trade Statistics".

^{4.} Including fishing, coastal and inland shipping. 5. Mainly public administration, commercial and agriculture

^{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.