DEPARTMENT OF ENERGY

A Statistical Bulletin

**OCTOBER 1978** 

# Little change in total consumption

Total energy

Rise in petroleum consumption

During the three month period June to August, total inland energy consumption on a primary fuel input basis was 0.2 per cent lower than in the corresponding period of last year. Of the individual primary fuels only petroleum, with an increase of 4.6 per cent, was above last year's level. Coal consumption fell by 3.1 per cent, while natural gas and nuclear electricity declined by 3.9 and 6.8 per cent respectively. The seasonally adjusted and temperature corrected series show a very similar picture: the same marginal decline in total consumption and the movements of the individual fuels corresponding closely with the unadjusted series.

Provisional figures of the supply and use of primary fuels in the second quarter of 1978 show that total production of fuels was 7.5 per cent higher than in the corresponding quarter last year. Of the total of 17.3 billion therms, more than half comprised oil and natural gas from the UK sector of the North Sea.

Total final energy consumption on a heat supplied basis was 0.9 per cent higher in the second quarter of 1978 than a year earlier. Gas consumption rose by 2.6 per cent and electricity and petroleum by 1.2 and 1.9 per cent respectively but coal declined by 5.4 per cent, largely as a result of lower demand in the domestic market.

In the individual sectors, energy consumption by the iron and steel industry fell marginally and there were declines of 1.3 and 1.6 per cent respectively in the other industries and domestic sectors; consumption in the transport sector rose sharply by 7.4 per cent.

### Coal

Recent improvement in deep-mined output

Total coal production in the first nine months of the year was 0.5 per cent higher than during the corresponding period of 1977. Deep-mined production, which was lower by 0.7 per cent was offset by the output of an additional half million tonnes of opencast coal. More recently, however, deep-mined output has improved slightly and in the third quarter of this year was 1.4 per cent above last year's level.

Total coal consumption in the first three quarters of the year at 87.3 million tonnes was 4.5 million tonnes lower than in the corresponding period last year, a fall of 4.9 per cent. Lower use of coke ovens accounted for over a half of the decline. Power station use was lower by nearly a million tons, but the decline was wholly in the first half of the year and there has since been a change in this sector with consumption in each of the last three months exceeding last year's level.

September to 33.6 million tonnes, 3.7 million tonnes higher than at the same time last year. Two-thirds of the September increase was at power stations where stocks of 20.4 million tonnes at the start of the heating season were 1.7 million tonnes higher than a year ago.

Productivity, measured by overall output per manshift has increased this year and in the first nine months was 2.3 per cent above the corresponding figure for 1977.

# Gas

Slower growth in demand

Total gas sent out in the first nine months of the year was 4.5 per

cent higher than in the corresponding period of 1977. The greater part of the increase took place in the January-March quarter since when the slackening in growth can to some extent be attributed to the warmer weather this year.

In the second quarter of 1978 total sales of gas were only 0.8 per cent higher than in the comparable quarter of last year. Sales to the commercial and public administration sector rose by 6.1 per cent and to the domestic sector by 1.6 per cent. Sales to industries other than iron and steel increased by 54 million therms, a rise of four per cent, but this was more than offset by lower sales to the iron and steel industry and to power stations.

# Electricity

Decline in industrial use

Total electricity supplied during the three month period June to August was 2.9 per cent higher than in the corresponding period of last year. Fuel used for generation rose by two per cent in total with coal consumption up by 2.4 per cent and oil up by nearly a quarter. The contribution of nuclear electricity measured in terms of equivalent fossil fuel input fell by 7.1 per cent.

Total sales of electricity in the second quarter of 1978 were one per cent higher than in the same quarter last year. Sales to the iron and steel industry rose by 10 per cent and to commercial consumers by four per cent but the domestic sector and industries other than iron and steel each took 0.7 per cent less than a year ago.

The final table in this months issue in the Supplementary Data section is devoted to generation of electricity outside the public supply system, mainly by manufacturing industry. Total generation by these industries in the second quarter of the year was 5.1 per cent less than a year ago. All industrial sectors shared in the decline and only the transport sector with an increase of 1.2 per cent in generation supplied more of its own requirements than a year previously.

# Petroleum

Transport fuels in demand

Total ouput of refined products during the three month period June to August was 21.1 million tonnes, three per cent higher than in the comparable period last year. Fuel oil output rose by only 1.5 per cent however, continuing the shift towards lighter products such as motor spirit and aviation turbine fuel which rose by 6.5 and 10.1 per cent respectively.

During the period deliveries of all principal products were higher than a year ago with the exception of naphtha which declined by over 10 per cent. Transport fuels in particular were in demand with deliveries of motor spirit, aviation turbine fuel and derv fuel rising by 7.7, 9.4 and 5.9 per cent over last year's level.

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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.

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 1976 issue of Energy Trends and on the first page of the August 1976 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.
- provisional.

# Total energy

TABLE 1. Inland energy consumption: primary fuel input basis

TABLE I. IIII	and ener	gy cons	umption.	primary	ruer inp	u t Dasis							
	Total	Coal <sup>1</sup>	Petroleum <sup>2</sup>	Natural <sup>3</sup> gas	Nuclear electricity	Hydro- electricity		Total	Coal <sup>1</sup>	Petroleum <sup>2</sup>	Natural <sup>3</sup> gas	Nuclear electricity	
	Million	tonnes of	coal or coal ed	quivalent			j	Million	tonnes of	oil or oil equiv	valent		
1974 1975 1976	337.5 324.8 329.8	117.9 120.0 122.0	152.5 136.5 134.2	52.9 55.4 58.8	12.1 10.9 12.9	2.1 2.0 1.9		198.6 191.1 194.0	69.3 70.6 71.8	89.7 80.3 78.9	31.2 32.6 34.6	7.1 6.4 7.6	1.3 1.2 1.1
1977 Per cent change	338.4 +2.6	122.7 +0.6	136.6 +1.7	62.8 +6.8	14.3 +11.0	2.0 +7.2		199.0 +2.6	72.2 +0.6	80.3 +1.7	36.9 + <i>6.8</i>	8.4 +11.0	1.2 +7.2
1977 Jan-Aug 1978 Jan-Aug p Per cent change	218.3 218.5 +0.1	81.2 77.0 —5.1	86.6 89.6 +3.4	40.0 41.6 +4.0	9.3 9.1 -3.0	1.2 1.2 +1.9		128.4 128.5 +0.1	47.7 45.3 —5.1	51.0 52.7 +3.4	23.5 24.5 +4.0	5.5 5.3 -3.0	0.7 0.7 +1.9
1977 Jun* Jul Aug	27.7 20.2 19.9	10.2 8.0 7.3	11.7 8.3 8.5	4.5 2.9 3.0	1.2 0.9 1.0	0.1 0.1 0.1		16.4 11.8 11.8	6.0 4.8 4.3	6.9 4.8 5.0	2.7 1.7 1.8	0.7 0.5 0.6	0.1 - 0.1
Total	67.8	25.5	28.5	10.4	3.1	0.3		40.0	15.1	16.7	6.2	1.8	0.2
1978 Jun* Jul Aug p	27.0 20.9 19.8	9.8 8.0 6.9	11.9 8.8 9.1	4.1 3.1 2.8	1.1 0.9 0.9	0.1 0.1 0.1		15.9 12.3 11.6	5.8 4.7 4.0	7.0 5.2 5.4	2.4 1.8 1.7	0.6 0.6 0.5	0.1
Total	67.7	24.7	29.8	10.0	2.9	0.3		39.8	14.5	17.6	5.9	1.7	0.1
Per cent change	-0.2	-3.1	+4.6	-3.9	-6.8	-1.2		-0.2	-3.1	+4.6	-3.9	-6.8	-1.2
	Seasonal	ly adjusted	d and tempera	ture correc	cted4 (annu	al rates)							
1977 Jan-Aug 1978 Jan-Aug p Per cent change	339.1 336.9 -0.6	124.6 117.6 -5.6	136.0 140.4 +3.3	62.2 63.0 +1.3	14.4 14.0 -3.0	1.9 1.9 +0.9		199.5 198.2 0.6	73.3 69.2 — <i>5.6</i>	80.0 82.6 +3.3	36.6 37.1 +1.3	8.5 8.2 -3.0	1.1 1.1 +0.9
1977 Jun* Jul Aug	336.1 335.5 344.5	118.7 123.7 122.3	138.2 132.9 140.1	62.1 62.9 64.5	15.2 14.4 16.1	1.9 1.6 1.5		197.7 197.2 202.6	69.8 72.7 71.9	81.3 78.1 82.4	36.5 37.0 37.9	9.0 8.5 9.5	1.1 0.9 0.9
Average	338.4	121.3	137.1	63.1	15.2	1.7		199.1	71.4	80.6	37.1	9.0	1.0
1978 Jun* Jul Aug p	337.6 336.4 339.0	117.9 117.5 115.7	141.3 140.5 149.3	62.2 61.7 58.6	14.4 14.8 13.8	1.8 1.9 1.6		198.6 197.9 199.4	69.4 69.1 68.1	83.1 82.6 87.8	36.6 36.3 34.5	8.5 8.8 8.1	1.0 1.1 0.9
Average	337.6	117.1	143.5	60.9	14.3	1.8		198.6	68.9	84.4	35.8	8.4	1.1
Per cent change	-0.2	-3.5	+4.7	-3.4	-6.1	+2.8		-0.2	-3.5	+4.7	-3.4	-6.1	+2.8

- 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

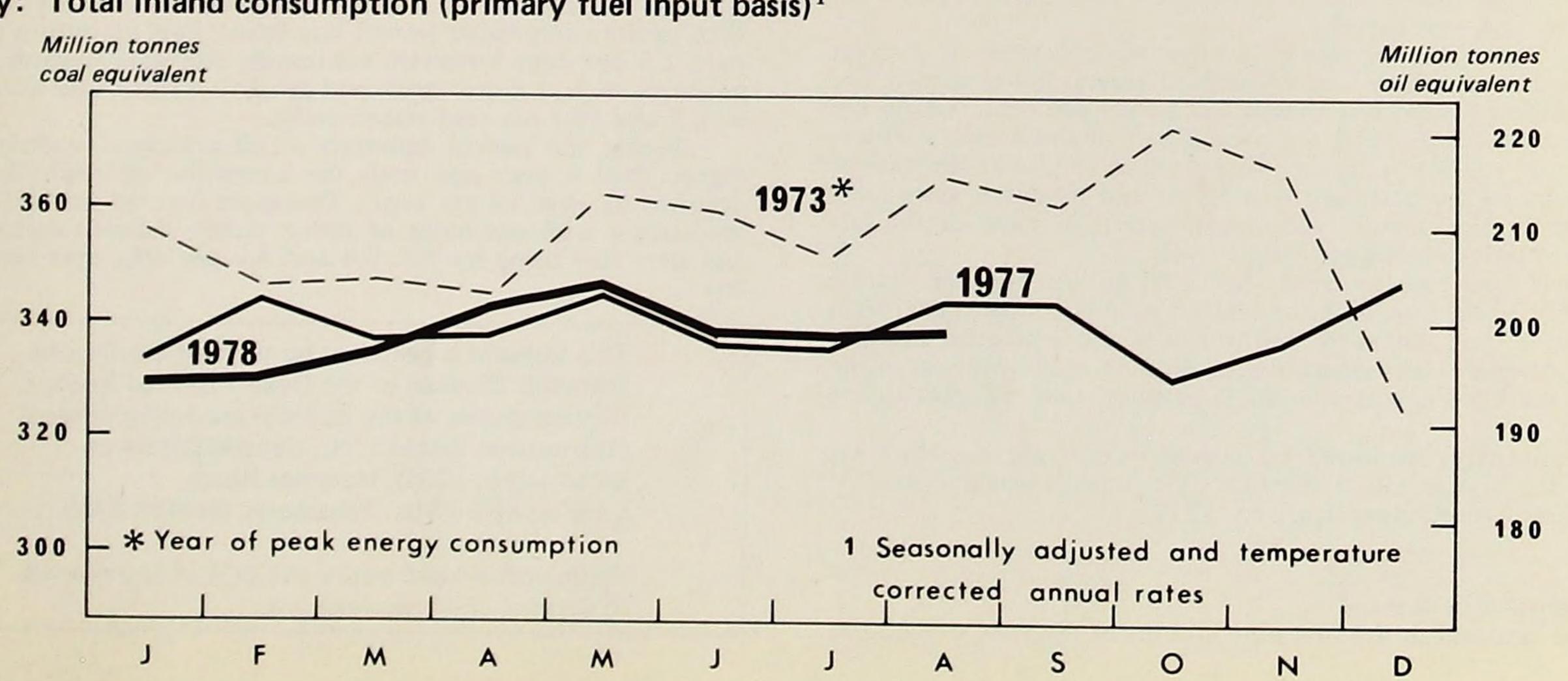


TABLE 2. Supply an	y and use of fuels 1976 1977											Million t	herms
					1976			19	77		197	8 p	_ 1
	1976	1977	Per cent change	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	Per¹ cent change
PRIMARY FUELS AND EQU	JIVALEN	TS:											
Production of primary fuels									0.405	0.450	7.040	7 427	1.2
Coal Potroloum <sup>2</sup>	30,166 5,206	29,682 16,350	-1.6 (+)	7,635 1,020	6,378 1,335	8,147 2,277	7,604 3,305	7,514 4,214	6,405 4,337	8,159 4,494	7,643 4,839	7,427 5,701	-1.2 + 35.3
Petroleum <sup>2</sup> Natural gas <sup>3</sup>	14,379	15,024	+4.5	2,962	2,173	4,517	4,916	3,459	2,497	4,152	4,939	3,228	-6.7
Primary electricity	3,411	3,761	+10.3	786	770	929	1,070	877	852	962	1,144	909	+3.3
Total	53,162	64,817	+21.9	12,403	10,656	15,870	16,895	16,064	14,091	17,767	18,565	17,262	+7.5
Arrivals, Petroleum <sup>4</sup> Other	43,174 1,183	35,730 1,366	-17.2 +15.5	10,949 336	10,160 270	11,073 226	9,615 195	9,116 199	8,253 371	8,746 601	8,892 641	8,243 456	-9.6 (+)
Shipments Bunkers	9,176 1, <b>46</b> 8	13,841 1,1 <b>6</b> 8	+50.8 -20.4	2,068 346	2,507 381	2,856 370	2,973 316	3,651 309	3,886 292	3,331 251	3,405 240	3,999 279	+9.5 -9.7
Stock change <sup>5</sup>								205	101	405	. 450	400	
Solid fuels Crude Petroleum	<del>-634</del> -378	+238 +555		-820 -196	−388 −25	+262 -511	+1,252	-385 -352	-194 +253	-435 +279	+459 +92	-483 -427	- : :
Petroleum products	+240	+424		-431	<b>−367</b>	+390	+564	-225	-309	+394	+185	+215	
Non-energy use Statistical difference <sup>6</sup>	4,448 +54	4,373 —68	-1.7 · ·	1,111 -23	1,159 -2	1,040 +21	1,123 -337	1,110 +319	1,109 -10	1,031 -40	1,061 +6	1,018 190	-8.3 · ·
Total primary 7 energy input	81,709	83,680	+2.4	18,693	16,257	23,065	24,147	19,666	17,168	22,699	24,179	19,780	+0.6
Conversion losses etc. <sup>8</sup>	24,382	25,148	+3.2	5,597	4,905	6,967	7,274	5,854	5,263	6,757	7,024	5,840	-0.2
FINAL CONSUMPTION BY		20,		-,									
Iron and steel industry													
Coal	66	66	_	14	9	20	23	15	10	18	16	10	-33.3
Other solid fuel 9	2,723	2,394	-12.1	719	670	703	663 94	593 89	600 95	538 84	553 81	603 80	+1.7 -10.1
Other coal-derived fuels 10	401 438	362 485	-9.7 +10.7	109 112	97 99	97 119	128	125	113	119	118	110	-12.0
Electricity	395	389	-1.5	96	90	109	104	96	92	97	106	107	+11.5
Petroleum	1,279	1,205	-5.8	306	273	346	352	286	256	311	336	285	-0.4
Total	5,302	4,901	-7.6	1,356	1,238	1,394	1,364	1,204	1,166	11,167	1,210	1,195	-0.7
Other industries		0.005		504	470	000	010	F20	400	CCA	622	507	12
Other solid fuel <sup>9</sup>	2,277 126	2,295 156	+0.8	564 24	470 27	696 37	618 38	530 38	483 35	664 45	623 51	507	-4.3 -23.7
Other coal-derived fuels 10	76	74	-2.6	23	25	15	19	23	19	13	17	15	-34.8
Gas <sup>11</sup>	5,241	5,458	+4.1	1,236	1,083	1,466	1,431	1,373	1,171	1,483	1,536	1,429	+4.1
Electricity	2,364	2,411	+2.0	563	546	638	645	599	559	608	648 2,150	594 1,706	-0.8 -3.8
Petroleum	7,441	7,520	+1.1	1,696	1,400	2,090	2,245	1,774 4,337	1,428 3,695	2,073 4,886	5,025	4,280	-1.3
Tropagatas	17,525	17,914	+2.2	4,106	3,551	4,942	4,996	4,337	3,095	4,000	5,025	4,200	1.5
Transport sector  Coal and other solid fuel	21	20	-4.8	4	2	8	6	4	3	7	6	4	-
Electricity	98	100	+2.0	24	22	26	26	26	23	25	27	25	-3.9
Petroleum	12,597	12,931	+2.7	3,198	3,333	3,177	2,988	3,218	3,420	3,305	3,048	3,458	+7.5
Total	12,716	13,051	+2.6	3,226	3,357	3,211	3,020	3,248	3,446	3,337	3,081	3,487	+7.4
Domestic sector	2 140	2 220	+2.9	764	634	811	850	773	703	904	761	724	-6.3
Coal Other solid fuel 9	3,140 8 <b>6</b> 9	3,230 843	-3.0	196	208	188	227	204	223	189	197	197	-3.4
Gas 11	6,194	6,590	+6.0	1,055	686	2,050	2,413	1,371	771	2,035	2,808	1,393	+1.6
Electricity	2,905	2,932	+0.9	585	464	863	972	638 295	511 205	811 432	969 520	637	-0.2 -6.1
Petroleum	1,435	1,450	+1.1	268	176	472	518	3,281	2,413		5,255	3,228	-1.6
Other final weem 12	14,543	15,045	+3.5	2,868	2;168	4,384	4,980	3,261	2,413	4,371	5,255	3,220	1.0
Other final users 2 Coal	516	544	+5.4	113	73	158	166	118	83	177	167	118	-
Other solid fuel <sup>9</sup>	166	166	-	44	37	34	50	36	45	35	43	39	+8.3
Gas <sup>11</sup>	1,521	1,587	+4.3	317	169	464	561	380	180	466	643	403	+6.1
Electricity Petroleum	1,597 3,441	1,689 3,635	+5.8 +5.6	345 721	308 451	1,046	1,241	386 822	346 531	1,041	519 1,212	403 787	+4.4
Total	7,247	7,621	+5.0	1,540	1,038	2,167	2,513	1,742	1,185	2,181	2,584		+0.5
Total final users	57,327	58,532	+2.1	13,096	11,352	16,098	16,873	13,812	11,905	15,942	17,155	13,940	
FINAL CONSUMPTION BY		30,332	12.1	10,030	11,002	10,000	.0,075	1.0,012	1 , 5	.5,5 12	1,	1 .0,0 .0	
Coal	6,019	6,154	+2.2	1,459	1,188	1,692	1,663	1,440	1,282	1,769	1,573	1,363	-5.4
Other solid fuel <sup>9</sup>	3,885	3,560	<del>-8.4</del>	983	942	963	978	871	903	808	844	868	-0.3
Other coal derived fuels 10	477	436	-8.6	132	122	112	113	112	114	97	98	95	-15.2
Gas	13,394	14,120	+5.4	2,720	2,037	4,099	4,533	3,249	2,235	4,103	5,105	3,335	+2.6
Electricity Petroleum	7,359 26,193	7,521 26,741	+2.2	1,613 6,189	1,430 5,633	7,131	7,344	1,745 6,395	1,531 5,840	7,102	2,269 7,266	1,766 6,513	
					11,352	16,098	16,873	13,812	11,905		17,155	13,940	
Total all fuels	57,327	58,532	+2.1	13,096	11,352	10,098	10,073	13,012	11,905	15,542	17,135	10,540	10.9

<sup>1.</sup> 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.



TABLE 3. Supply

Thousand tonnes

			Production					Tonnage lost (	deep-mined)3
	Net inland supply	Total <sup>1</sup>	Deep-mined	Opencast	Net imports	Imports <sup>2</sup>	Exports <sup>2</sup>	Recognised holidays and rest days	Disputes
1974 1975 1976 1977 Per cent change	112,132 131,583 125,201 122,623 -2.1	110,451 128,682 123,800 122,150 -1.3	99,992 117,411 110,264 107,123 -2.8	9,231 10,414 11,944 13,551 +13.5	+1,681 +2,901 +1,401 +473 -66.2	3,546 5,083 2,837 2,414 -14.9	1,865 2,182 1,436 1,941 +35.2	10,518 12,300 12,345 12,457 +0.9	16,253 352 1,157 814 -29.6
1977 Jan-Sep 1978 Jan-Sep p Per cent change	88,797 89,366 +0.6	88,573 89,022 +0.5	77,820 77,312 –0.7	9,823 10,325 +5.1	+224 +344 +53.6	1,763 1,851 +5.0	1,539 1,507 -2.1	12,293 12,464 +1.4	594 1,195 <i>(+)</i>
1977 Jul Aug Sep *	8,892 6,797 11,030	8,796 6,654 10,908	7,427 5,469 9,356	1,169 1,005 1,502	+96 +143 +122	294 275 315	198 132 193	1,593 3,310 1,499	53 26 82
Total	26,719	26,358	22,252	3,676	+361	884	523	6,402	161
1978 Jul Aug Sep* p	9,178 6,505 11,178	8,999 6,460 11,267	7,558 5,334 9,679	1,231 934 1,405	+179 +45 -89	347 206 115	168 161 204	1,498 3,497 1,275	120 58 116
Total	26,861	26,726	22,571	3,570	+135	668	533	6,270	294
Per cent change	+0.5	+1.4	+1.4	-2.9	-62.6	-24.4	+1.9	-2.1	+82.6

<sup>1.</sup> 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 producer				Final u	isers1	
		Primary			ndary			Colliery d		
	Total		Other <sup>3</sup>			Other <sup>3</sup>		Dome	estic <sup>5</sup>	
	inland consumption	Collieries	Power stations <sup>2</sup>	Coke ovens	Gas works	conversion industries	Industry <sup>4</sup>	House coal <sup>6</sup>	Other <sup>1</sup>	Other <sup>8</sup>
1974 1975	117,887 122,216	1,256 1,238	67,025 74,569	18,461 19,085	107 10 8	3,788 4,063 3,405	11,077 9,685 8,970	11,981 9,915 9,450	1,687 1,703 1,374	2,505 1,948 2,045
1976 1977 Per cent change	123,603 123,978 +0.3	1,132 1,124 <i>-0.7</i>	77,818 79,956 +2.7	19,401 17,406 —10.3	7 -12.5	3,166 -7.0	9,033 + <i>0.7</i>	9,635 +2.0	1,502 + <i>9.3</i>	2,149 +5.1
1977 Jan-Sep 1978 Jan-Sep p Per cent change	91,801 87,321 -4.9	816 769 - <i>5.8</i>	59,229 58,360 -1.5	13,546 11,121 -17.9	5 4 -20.0	2,313 2,262 -2.2	6,423 5,998 -6.6	6,962 6,261 -10.1	1,062 1,079 +1.6	1,445 1,467 +1.5
1977 Jul Aug Sep*	8,053 7,263 10,628	78 49 79	4,892 4,535 6,600	1,360 1,326 1,605		233 230 329	614 480 791	667 471 903	129 83 167	80 89 154
Total	25,944	206	16,027	4,291	-	792	1,885	2,041	379	323
1978 Jul Aug Sep* p	8,029 6,859 10,301	78 48 68	5,153 4,705 6,655	1,159 982 1,472	1 1 1	232 209 295	530 333 711	629 428 808	139 70 150	109 84 142
Total	25,189	194	16,513	3,613	-	736	1,574	1,865	359	335
Per cent change	-2.9	-5.8	+3.0	-15.8	-	-7.1	-16.5	-8.6	-5.3	+3.7

<sup>1.</sup> 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 related 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 coal<sup>1</sup> at end of period: Great Britain

Thousand tonnes

				Distributed				Undistributed	
	Total	Total distributed stocks	Power	Coke	Gas	Other	Total undistributed stocks	Collieries	Opencast sites and central stocking grounds
1972	30,459	19,350	17,060	1,920	51	319	11,109	7,679	3,430
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
1977 Jul	29,882	20,772	18,334	2,258	1	179	9,110	7,600	1,510
Aug	29,604	20,701	18,541	2,005	1	154	8,903	7,343	1,560
Sep	29,892	20,813	18,717	1,899	1	196	9,079	7,466	1,613
1978 Jul	32,922	21,868	19,785	1,888	1	194	11,054	9,084	1,970
Aug	32,637	21,555	19,794	1,598	1	162	11,082	9,015	2,067
Sep p	33,564	22,175	20,422	1,572	1	180	11,389	9,211	2,178
Absolute change:									
in latest month	+927	+620	+628	-26	-	+18	+307	+196	+111
On a year ago	+3,672	+1,362	+1,705	-327	-	-16	+2,310	+1,745	+565

<sup>1.</sup> 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 ery books <sup>1</sup>	Recruitment	Wastage	4	bsence percenta	ge <sup>2</sup>		output per shift <sup>3</sup>
	Total	Underground			Total	Voluntary	Involuntary	Overall	At the face
	TH	nousands	Num	ber		Per cent		Toi	nnes
1972 1973 1974 1975 1976 1977	266 245 246 245 241 239	210 193 194 194 192 189	13,255 17,402 26,436 21,347 17,061 29,361	26,114 37,961 25,133 22,451 21,239 31,647	16.6 18.0 16.3 16.2 17.4 17.6	3.9 4.1 4.1 4.0 3.7 3.9	12.7 13.9 12.2 12.2 13.7 13.7	2.21 2.29 2.18 2.28 2.23 2.18	7.33 7.62 7.56 7.92 7.75 7.77
1977 Jan-Sep 1978 Jan-Sep p Per cent change	242 <sup>(4)</sup> 238 <sup>(4)</sup> -1.7	192 <sup>(4)</sup> 189 <sup>(4)</sup> -1.6	23,231 16,419 —29.3	25,268 21,627 -14.4	17.4 17.2	3.7 4.1	13.7 13.1	2.18 2.23 +2.3	7.79 8.48 +8.9
1977 Jul Aug Sep*	244 238 239	194 188 189	2,140 2,409 3,206	1,899 8,243 2,330	16.7 15.5 17.0	3.4 3.1 3.9	13.3 12.4 13.1	2.05 1.95 2.05	7.42 7.58 7.34
1978 Jul Aug Sep* p	238 235 234	189 186 185	1,274 1,633 1,649	2,268 5,033 2,797	15.9 15.1 17.0	3.7 3.3 4.3	12.2 11.8 12.7	2.12 1.99 2.17	8.20 8.27 8.24

<sup>1.</sup> At end of period.

# Gas

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

		Natural gas supply	y .	Other fuel used			Gas sent out	
	Total	Source	e <sup>1</sup>				Tarre	Natural <sup>4</sup> gas for direct
	system	Indigenous	Imported <sup>2</sup>	Coal	Oil <sup>3</sup>	Total	Town gas	supply
		Million therms		Thousand	d tonnes		Million therms	
1974 1975 1976 1977 Per cent change	13,102 13,692 14,420 15,373 +6.6	12,861 13,367 14,030 14,734 +5.0	241 325 390 639 +63.8	107 9 8 7 -5.3	1,276 588 245 166 -32.2	13,451 13,822 14,445 15,323 +6.1	1,598 752 226 75 -66.8	11,853 13,070 14,219 15,248 +7.2
1977 Jan-Sep 1978 Jan-Sep p Per cent change	10,917 11,377 +4.2	10,680 10,335 -3.2	237 1,042 (+)	6 5 -16.7	107 220 (+)	10,887 11,375 +4.5	64 29 —54.7	10,823 11,346 +4.8
1977 Jul Aug Sep*	701 723 1,098	675 700 1,045	26 23 53	- - 1	5 5 10	693 718 1,089	3 3 3	690 715 1,086
Total	2,522	2,420	102	1	20	2,500	9	2,491
1978 Jul Aug Sep* p	767 698 1,050	713 646 850	54 52 200	1	18 16 20	758 690 1,040	2 2 3	756 688 1,037
Total	2,515	2,209	306	1	54	2,488	7	2,481
Per cent change	-0.2	-8.7	(+)		(+)	-0.5	-22.2	-0.4

<sup>1.</sup> 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 <sup>1</sup>	Iron and steel industry	Other industries	Domestic	Other <sup>2</sup>
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
975	13,112	858	371	4,645	5,891	1,347
976	13,997	662	438	5,182	6,194	1,521
977	14,579	519	485	5,398	6,590	1,587
er cent change	+4.2	-21.6	+10.7	+4.2	+6.4	+4.3
1976 2nd quarter	2,865	160	112	1,221	1,055	317
3rd quarter	2,149	129	99	1,066	686	169
4th quarter	4,218	133	119	1,452	2,050	464
977 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	110	1,470	2,035	466
1978 1st quarter p	5,257	165	118	1,523	2,808	643
2nd quarter p	3,344	. 25	110	1,413	1,393	403
Per cent change	+0.8	-69.5	-12.0	+4.0	+1.6	+6.1

<sup>1.</sup> Public supply and transport power stations. 2. Public administration and commerce.

The definition was changed from 1973.

<sup>3.</sup> Excluding capital working and tip coal.

<sup>4.</sup> Average number during the period.

<sup>2.</sup> Includes imports from the Norwegian sector of the Frigg gasfield. 3. Mainly naphtha (LDF), liquefied petroleum gases (LPG) and refinery gases.

<sup>4.</sup> Includes Substitute Natural Gas (SNG).

# Electricity

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

	Fuel use	d					Electrici	ty generate	ed			Total <sup>6</sup>
	Total <sup>1</sup>	Coal <sup>2</sup>	Oil <sup>2,3</sup>	Natural	Nuclear	Hydro	Total <sup>4</sup>	By stea	m plant Other	Own⁵ use	Electricity	electricity available
		tonnes of d					TWh					
United Kingdom												
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	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	220.06	19.56	242.48	246.02
Per cent change	+3.1	+2.2	+5.5	-31.0	+13.0	+5.5	+2.8	+12.3	+1.2	+2.1	+2.9	+2.7
1977 Jan-Aug	73.40	52.16	10.73	1.02	8.48	0.98	169.76	23.94	142.66	12.75	157.01	159.25
1978 Jan-Aug p	74.45	51.64	12.95	0.67	8.16	0.98	172.79	22.86	146.83	12.38	160.41	162.87
Per cent change	+1.4	-1.0	+20.7	-34.3	-3.8	+0.2	+1.8	-4.5	+2.9	-2.9	+2.2	+2.3
1977 Jun*	8.93	6.26	1.35	0.16	1.07	0.09	20.64	3.01	17.29	1.63	19.01	19.31
Jul	6.65	4.70	0.96	0.16	0.78	0.04	15.38	2.23	12.97	1.22	14.16	14.41
Aug	6.76	4.76	0.76	0.22	0.97	0.05	15.73	2.75	12.77	1.28	14.45	14.74
Total	22.34	15.72	3.07	0.54	2.82	0.18	51.75	7.99	43.03	4.13	47.62	48.46
1978 Jun*	8.92	6.29	1.51	0.02	1.02	0.07	20.77	2.88	17.61	1.53	19.24	19.51
Jul	6.97	4.92	1.14	0.06	0.79	0.05	16.16	2.20	13.74	1.18	14.98	15.23
Aug p	6.89	4.88	1.12	0.02	0.81	0.05	16.01	2.28	13.50	1.23	14.78	15.02
Total	22.78	16.09	3.77	0.10	2.62	0.17	52.94	7.36	44.85	3.94	49.00	49.76
Per cent change	+2.0	+2.4	+22.8	(-)	-7.1	-5.6	+2.3	-7.9	+4.2	-4.6	+2.9	+2.7
England and Wales												
1974	97.63	59.57	24.39	3.92	9.58	0.12	218.85	26.93	190.43	15.89	202.96	205.55
1975	96.14	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
Per cent change	+2.7	+2.2	+6.2	-31.0	+8.8	+37.5	+2.2	+8.5	+1.0	+2.0	+2.2	+2.7
1977 Jan-Aug	63.61	46.60	8.87	1.02	7.03	0.06	147.57	19.82	127.16	10.56	137.01	138.24
1978 Jan-Aug p	64.50	46.02	10.74	0.67	6.95	0.07	150.15	19.47	130.10	10.36	139.79	141.47
Per cent change	+1.4	-1.2	+21.1	-34.3	-1.1	+16.7	+1.7	-1.8	+2.3	-1.9	+2.0	+2.3
1977 Jun*	7.78	5.66	1.15	0.16	0.81	-	17.99	2.28	15.65	1.31	16.68	16.85
Jul	5.87	4.27	0.82	0.16	0.61	-	13.56	1.75	11.80	1.00	12.56	12.74
Aug	5.92	4.28	0.61	0.22	0.81	-	13.82	2.31	11.48	1.06	12.76	12.89
Total	19.57	14.21	2.58	0.54	2.23	_	45.37	6.34	38.93	3.37	42.00	42.48
1978 Jun*	7.76	5.64	1.28	0.02	0.81	_	18.06	2.29	15.72	1.27	16.79	16.99
Jul	6.19	4.53	0.98	0.06	0.60	0.01	14.31	1.68	12.58	0.97	13.34	13.42
Aug p	6.04	4.45	0.88	0.02	0.68	_	14.03	1.92	12.05	1.01	13.02	13.11
Total	19.99	14.62	3.14	0.10	2.09	0.01	46.40	5.89	40.35	3.25	43.15	43.52
Per cent change	+2.1	+2.9	+21.7	(-)	-6.3	(+)	+2.3	-7.1	+3.6	-3.6	+2.7	+2.4

Including coke.
 Including quantities used in the production of steam for sale.
 Including oil used in gas turbine and diesel plant and for lighting up coal fired boilers.
 Including generation by gas turbine, diesel and hydro-electric plant.
 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 exchanges with Scotland.

TABLE 10. Sales of electricity by the public supply system

GWh

		Total	Iron and steel industry	Other industries	Domestic	Other <sup>1</sup>
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		217,924	11,164	70,854	89,214	46,692
1976		220,841	12,607	74,986	85,117	48,131
1977		225,655	12,310 <sup>2</sup>	76,561 <sup>2</sup>	85,902	50,882
Per cent	change	+2.2	-2.4	+2.1	+0.9	+5.7
1976 2	nd quarter	48,537	3,071	17,910	17,148	10,408
	rd quarter	43,112	2,875	17,314	13,584	9,339
4	th quarter	62,957	3,453	20,203	25,296	14,005
1977 1	st quarter	67,181	3,273	20,458	28,564	14,886
	nd quarter	52,535	3,054 <sup>2</sup>	18,993²	18,803	11,685
	rd quarter	46,077	2,911 <sup>2</sup>	17,793 <sup>2</sup>	14,938	10,435
	th quarter	59,862	3,0722	19,317²	23,597	13,876
1978 1	st quarter p	67,847	3,369²	20,514 <sup>2</sup>	28,380	15,584
	nd quarter p	53,050	3,375 <sup>2</sup>	18,852²	18,674	12,149
Per cent		+1.0	+10.5	-0.7	-0.7	+4.0

<sup>1.</sup> Mainly commerce, public adminstration and agriculture. 2. Contains a small degree of estimation.

	Crude Petrole	eum						Petroleur	m Products		
	Gross <sup>2</sup>	Supply								Nice	
	Indigenous Production	Total	Indigenous <sup>2</sup>	Net arrivals	Other <sup>3</sup>	Arrivals4,5	Shipments <sup>4,5</sup>	Arrivals <sup>4</sup>	Shipments <sup>4</sup>	Net Arrivals	Bunkers <sup>6</sup>
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
1976	12,036	98,384	11,511	+86,181	692	90,466	4,285	10,422	15,726	-5,304	3,569
1977	37,879	92,260	37,540	+54,038	682	70,697	16,659	12,716	13,928	-1,212	2,829
Per cent change	(+)	-6.2	(+)	-37.3	-1.4	-21.9	(+)	+22.0	-11.4	(-)	-20.7
1977 Jan-Aug	24,047	62,170	23,812	+38,022	336	48,760	10,738	7,924	9,861	-1,937	1,981
1978 Jan-Aug p	33,318	63,135	33,059	+29,423	653	44,687	15,264	7,784	8,240	-456	1,656
Per cent change	+38.6	+1.5	+38.8	-22.6	+94.3	-8.4	+42.2	-1.8	-16.4		-16.4
1977 Jun	3,337	7,700	3,445	+4,186	69	5,974	1,788	907	1,136	-229	232
Jul	3,208	7,346	3,146	+4,138	62	5,421	1,283	889	1,262	-373	233
Aug	3,422	7,127	3,422	+3,640	65	5,635	1,995	953	1,480	-527	234
Total	9,967	22,173	10,013	+11,964	196	17,030	5,066	2,749	3,878	-1,129	699
1978 Jun	4,494	7,401	4,298	+3,038	65	4,901	1,863	763	937	-174	239
Jul	4,553	7,652	4,535	+3,007	110	5,481	2,474	803	1,276	-473	222
Aug p	4,602	8,044	4,515	+3,431	98	5,263	1,832	779	1,337	-558	180
Total	13,649	23,097	13,348	+9,476	273	15,645	6,169	2,345	3,550	-1,205	641
Per cent change	+36.9	+4.2	+33.3	-20.8	+38.0	-8.1	+21.8	-14.7	-8.4		-8.4

<sup>1.</sup> Calendar months. 2. Including natural gas liquids (condensates). 3. Mainly recycled products. 4. Foreign trade as recorded by the Petroleum Industry and may differ from figures published in Overseas Trade Statistics. 5. Including process (partly refined) oils. 6. International bunkers.

TABLE 12. Refinery throughput and output of petroleum products<sup>1</sup>

Thousand tonnes

	Through- put of crude	Refi	Refinery Total output		Gases				Kerosene					
	and process oils	Fuel	Losses	of petrol- eum pro- ducts <sup>2</sup>	Butane and propane	Other petro- leum	Naphtha (LDF)	Motor	Aviation turbine fuel	Burning oil <sup>3</sup>	Gas/ diesel oil	Fuel	Lubri- cating oils	Bitumen
1974 1975 1976	93,579 97,784	6,031 6,342	1,158	86,647 90,284	1,602 1,447 1,575	272 151 158	6,448 3,968 4,583	14,520 13,940 15,232	4,475 3,959 4,163	2,564 2,299 2,458	27,641 23,324 24,198	40,022 32,711 32,695	1,455 1,141 1,310	2,129 2,099 1,897
1977 Per cent change	93,615 -4.3	-1.6	-10.3	-4.4	1,539 -2.3	142 -10.1	4,488 -2.1	14,805 - 2.8	4,004 -3.8	2,462 +0.2	23,476 -3.0	30,481 -6.8	1,380 +5.3	1,882 -0.8
1977 Jan-Aug 1978 Jan-Aug p	The second secon		635	58,113	1,055	101	3,032	9,826	2,806 3,226 +15.0	1,475	15,800 15,828 +0.2	20,541 19,703	910 811 -10.8	1,258 1,307 +3.9
Per cent change  1977 Jun  Jul  Aug	7,501 7,141 7,687	+3.7 500 524 531	113 76	6,888 6,541	+5.6 103 128 128	+9.7 7 13 11	-0.8 403 333 415	1,186 1,289 1,313	417 451 416	+10.5 122 103 111	1,922 1,738 1,921	-4.1 2,294 2,083 2,330	129 121 116	183 173 177
Total	22,329	1,555				31	1,151	3,788	1,284	336	5,581	6,707	366	533
1978 Jun Jul Aug p	7,049 7,586 8,278	477 532 540	65	6,989	105 122 129	11 13 15	268 340 398	1,240 1,344 1,450	439 484 490	127 105 107	1,672 1,921 2,111	2,182 2,175 2,450	117 125 121	199 183 189
Total	22,913				356	39	1,006	4,034	1,413	339	5,704	6,807	363	571
Per cent change	+2.6	-0.4	-11.0	+3.0	-0.7	+23.1	-12.5	+6.5	+10.1	+1.1	+2.2	+1.5	-0.9	+7.1

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

TABLE 13. Deliveries of petroleum products for inland consumption<sup>1</sup>

Thousand tonnes

		Butane <sup>4</sup> and propane	Naphtha (LDF) <sup>5</sup>		Kerosene								
					Aviation turbine fuel	Burning oil			Gas/diesel oil				
						Standard						Lubri-	
	Total <sup>2,3</sup>					Premier	Domestic	Other <sup>6</sup>	Derv fuel	Other	Fuel oil	cating oils	Bitumen
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
1976	80,291	1,330	5,404	16,879	3,989	576	1,686	372	5,594	12,984	27,825	1,011	1,867
1977	81,918	1,320	5,179	17,336	4,165	559	1,677	391	5,711	13,914	27,772	1,029	1,847
Per cent change	+2.0	-0.8	-4.2	+2.7	+4.4	-3.0	-0.5	-5.3	+2.1	+7.2	-0.2	+1.8	-1.1
1977 Jan-Aug	53,222	870	3,595	11,341	2,791	348	1,071	246	3,727	8,878	17,818	686	1,222
1978 Jan-Aug p	55,314	872	3,388	12,095	2,969	350	1,064	280	3,814	8,918	18,446	690	1,247
Per cent change	+3.9	+0.3	-5.7	+6.6	+6.4	+0.4	-0.7	+14.0	+2.3	+0.5	+3.5	+0.6	+2.1
1977 Jun	5,974	94	426	1,458	394	11	72	23	462	749	1,965	89	175
Jul	5,522	84	432	1,490	423	6	59	20	453	643	1,609	81	163
Aug	5,728	85	455	1,631	404	10	69	21	452	695	1,592	80	161
Total	17,224	263	1,313	4,579	1,221	27	200	64	1,367	2,087	5,166	250	499
1978 Jun	6,159	91	367	1,600	431	6	70	25	505	717	1,895	94	197
Jul	5,951	82	377	1,631	458	8	72	23	473	673	1,723	88	167
Aug p	6,130	86	435	1,702	446	9	78	21	469	729	1,717	88	177
Total	18,240	259	1,179	4,933	1,335	23	220	69	1,447	2,119	5,335	270	541
Per cent change	+5.9	-16	-10.1	+7.7	+9.4	-10.6	+9.8	+7.3	+5.9	+1.5	+3.3	+7.5	+8.6

<sup>1.</sup> Calendar months. 2. Including other petroleum gases, aviation spirit, wide-cut gasoline, industrial and white spirits, and paraffin wax. 3. Excluding refinery fuel (and miscellaneous products prior to 1978). 4. Including very small amounts for petro-chemicals. 5. Now mainly for petro-chemical feed stock. 6. Including vaporising oil.

	Total	Power <sup>3</sup> stations	Gas works	Iron and steel industry	Other industries	Transport <sup>4</sup>	Domestic	Other <sup>5</sup>
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
1976	71,473	10,441	366	3,128	17,487	28,599	3,269	8,183
1977	73,043	10,875	292	2,938	17,701	29,359	3,263	8,615
Per cent change	+2.2	+4.2	-20.1	-6.1	+1.2	+2.7	-0.2	+5.3
1977 Jan-Jul	42,238	6,029	163	1,742	10,505	16,619	1,940	5,240
1978 Jan-Jul p	43,740	6,795	200	1,712	10,501	17,501	1,933	5,098
Per cent change	+3.6	+12.7	+23.1	-1.7	_	+5.3	-0.4	-2.7
1977 May	5,766	774	18	243	1,393	2,475	201	662
Jun	5,237	793	15	220	1,157	2,484	131	437
Jul	4,797	672	13	188	943	2,525	108	348
Total	15,800	2,239	46	651	3,493	7,484	440	1,447
1978 May	6,095	921	29	249	1,388	2,674	202	632
Jun	5,376	787	25	204	1,144	2,699	121	396
Jul p	5,170	730	24	196	1,003	2,729	125	363
Total	16,641	2,438	78	649	3,535	8,102	448	1,391
Per cent change	+5.3	+8.9	+71.4	-0.2	+1.2	+8.2	+1.6	-3.9

<sup>1.</sup> 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	Power stations		
		Million tonnes	Estimated days' supply 3	Million tonnes	
1977	Jul	20.8	98	0.88	
	Aug	21.0	89	0.94	
	Sept	20.9	83	1.02	
1978	Jul	18.9	83	1.01	
	Aug	19.3	77	1.04	
	Sept p	19.6	75	1.04	

 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	0.135 <sup>1</sup>	0.500 <sup>2</sup>
Million tonnes oil equivalent	0.60	1	0.00235	0.0800¹	0.280 <sup>2</sup>
Million therms	250	425	1	34.0	115
TWh electrical energy	7.35	12.5	0.0295	1	
TWh electricity generated	2.00³	3.60³	0.00880 <sup>3</sup>		1

- 1. The amount of fuel (average grade) equivalent to 1 TWh of energy.
- 2. The amount of primary fuel (power station grade) to generate 1 TWh.
- 3. The amount of electricity generated by one million units of 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

	Industry											
		Total Industry		Engin- eering and other metal trades	Food drink and tobacco		Chemical and allied trades				Other	
	Total					Coal mining	Nuclear <sup>2</sup> power stations	Others <sup>3</sup>	Textiles, leather and clothing	Paper, printing and stationery	(including gas and water works)	Transport under- takings
1972 1973 1974 1975 1976 1977 per cent change 1976 2nd quarter 3rd quarter 4th quarter	20,727 22,995 22,424 20,470 21,714 20,969 -3.4 5,191 4,898 5,742	20,034 22,292 26,775 19,781 21,024 20,268 -3.6 5,022 4,737	2,587 2,707 2,180 1,660 1,706 1,555 -8.9 409 367 450	1,320 2,716 3,139 3,362 3,463 +3.0 856 790	409 458 521 435 496 516 +4.0	323 309 251 297 269 278 +3.3	4,098 4,339 4,222 3,820 3,736 3,604 -3.5	7,408 7,859 7,904 7,305 8,398 7,931 -5.6 2,019 1,982	458 498 450 406 423 355 -16.1	2,786 2,763 2,598 2,137 2,249 2,168 -3.6 567 479	645 643 510 402 385 398 +3.4 91 81	693 703 649 689 690 701 +1.6
1977 1st quarter 2nd quarter 3rd quarter 4th quarter 1978 1st quarter p 2nd quarter p Per cent change	5,742 5,706 4,962 4,778 5,523 5,732 4,709 -5.1	5,570 5,522 4,791 4,611 5,344 5,546 4,536 -5.3	503 351 317 384 376 321 -8.5	884 885 885 825 871 937 861 -2.7	246 136 78 71 231 131 77 -1.3	74 69 77 57 75 58 63 -18.2	992 922 802 934 946 1,087 743 -7.4	2,134 2,162 1,877 1,786 2,106 2,151 1,810 -3.6	107 108 93 84 70 90 64 -31.2	604 625 533 454 556 605 520 -2.4	99 115 95 83 105 111 77 -18.9	172 184 171 167 179 186 173 +1.2

<sup>1.</sup> 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.

<sup>4.</sup> Including fishing, coastal and inland shipping. 5. Mainly public administration, commerce and agriculture.