

ENERGY TRENDS**A Statistical Bulletin****January 1979****UK ENERGY PROSPECTS FOR 1979**

Although the final figures for 1978 are not yet available, it is expected that inland primary energy consumption will have amounted to about 339 million tonnes of coal equivalent (m.t.c.e.) or about 200 million tonnes of oil equivalent (m.t.o.e.); marginally higher than 1977. This is three m.t.c.e (1½ m.t.o.e) or one per cent less than last year's Energy Trends forecast for 1978. The slower growth in consumption is mainly the result of the reduced usage of energy in industry (or indicated by data for the first nine months of 1978), despite the growth of output that has taken place in this sector.

In 1979 inland energy consumption is expected to increase by nearly 2½ per cent to reach a level of 347 m.t.c.e. (204 m.t.o.e.), so that primary fuel demand (including non-energy and bunkers) rises to a total of 368 m.t.c.e. (216 m.t.o.e.).

White Paper 39 (79/80)

Primary Fuel Demand

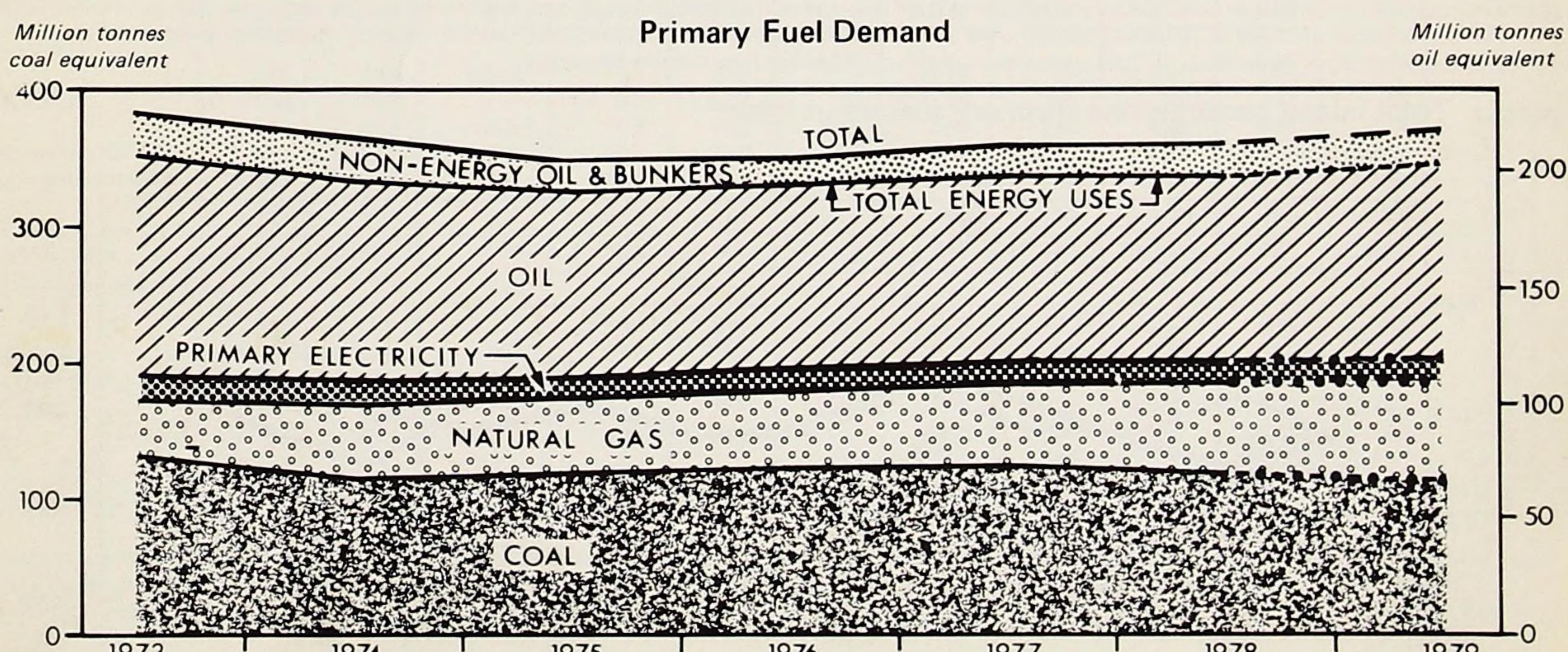
	Million tonnes of coal or coal equivalent						Million tonnes of oil or oil equivalent						Percentage shares of total														
	1973*	1975	1976	1977	1978	1979	p	f	1973*	1975	1976	1977	1978	1979	N	f	1973*	1975	1976	1977	1978	1979	p	f			
Coal	133	120	122	123	120	118			78	71	72	72	72	70	70	72	38	37	37	36	35	34					
Petroleum	164	137	134	137	140	143			97	80	79	84	80	82	83	84	47	42	40	40	41	41					
Natural gas	44	55	59	63	64	68			26	33	35	38	37	40	37	37	40	41	12	17	18	19	19	20			
Nuclear and hydro electricity	12	13	15	16	15	18			7	8	9	11	10	10	9	9	10	9	3	4	5	5	5	5			
Total energy uses	353	325	330	338	339	347			208	191	194	199	200	200	200	203	100	100	100	100	100	100					
Non-energy oil and bunkers	29	22	23	22	20	20			17	13	14	14	13	12	13	12	13	12	13	Items may not add to totals due to rounding.							
Total primary fuels	383	347	353	360	360	368			225	204	208	212	212	212	212	216	p = provisional f = forecast.	*	Year of peak energy consumption.								

Coal demand for 1978 is expected to be about 2½ m. tonnes lower than in 1977 and to fall by another 2 m. tonnes in 1979. Deep-mined output in 1979 is likely to remain at the 1977 and 1978 level of about 107 m. tonnes. Coal stocks, which increased by 3 m. tonnes in 1978 to end the year at 34½ m. tonnes, could therefore show a further increase during 1979.

Oil demand for energy use is expected to have increased by 2 m. tonnes during 1978 (much of the increase being in transport) and is likely to grow by another 2 m. tonnes in 1979. UK oil production in 1978 is likely to have reached about 53 m. tonnes. This will continue to increase in 1979 and should then be equivalent to over four-fifths of total oil requirements (including non-energy uses and bunkers).

Gas consumption is likely to increase by over six per cent this year. Growing Norwegian supplies will help gas to supply a 20 per cent of our primary inland energy requirements.

Electricity demand increased by 2½ per cent in 1978 and is expected to show a similar rise in 1979. Nuclear stations are expected to contribute over 14 per cent of supplies in 1979.



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.
- 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
<i>Million tonnes of coal or coal equivalent</i>						
1974	337.5	117.9	152.5	52.9	12.1	2.1
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
Per cent change	+2.6	+0.6	+1.7	+6.8	+11.0	+7.2
1977 Jan–Nov	300.7	110.5	120.9	54.8	12.7	1.8
1978 Jan–Nov p	300.4	106.4	124.2	55.9	12.1	1.8
Per cent change	-0.1	-3.7	+2.8	+2.0	-5.3	-0.8
1977 Sept*	29.2	10.6	12.4	4.6	1.5	0.1
Oct	24.9	9.4	9.9	4.4	1.0	0.2
Nov	28.3	9.3	11.9	5.9	0.9	0.3
Total	82.4	29.3	34.2	14.9	3.4	0.6
1978 Sept*	27.9	10.2	12.5	4.1	1.0	0.1
Oct	25.5	9.3	10.6	4.5	0.9	0.2
Nov p	28.3	9.9	11.6	5.6	1.0	0.2
Total	81.7	29.4	34.7	14.2	2.9	0.5
Per cent change	-0.8	+0.2	+1.3	-4.8	-11.7	-8.3

Seasonally adjusted and temperature corrected⁴ (annual rates)

1977 Jan–Nov	338.8	123.5	136.3	62.7	14.3	2.0
1978 Jan–Nov p	339.0	119.2	140.7	63.6	13.5	2.0
Per cent change	+0.1	-3.5	+3.3	+1.4	-5.5	-0.1
1977 Sept*	344.0	121.6	140.7	63.3	16.5	1.9
Oct	331.2	123.6	128.2	63.9	13.5	2.0
Nov	336.9	116.4	141.2	65.6	10.5	3.2
Average	337.9	120.6	137.0	64.2	13.7	2.4
1978 Sept*	335.9	119.8	144.1	58.4	11.5	2.1
Oct	339.5	121.0	138.5	65.5	12.3	2.2
Nov p	356.6	129.0	141.9	70.8	12.3	2.6
Average	343.4	123.0	141.7	64.4	12.0	2.3
Per cent change	+1.6	+2.0	+3.4	+0.3	-12.5	-2.7

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

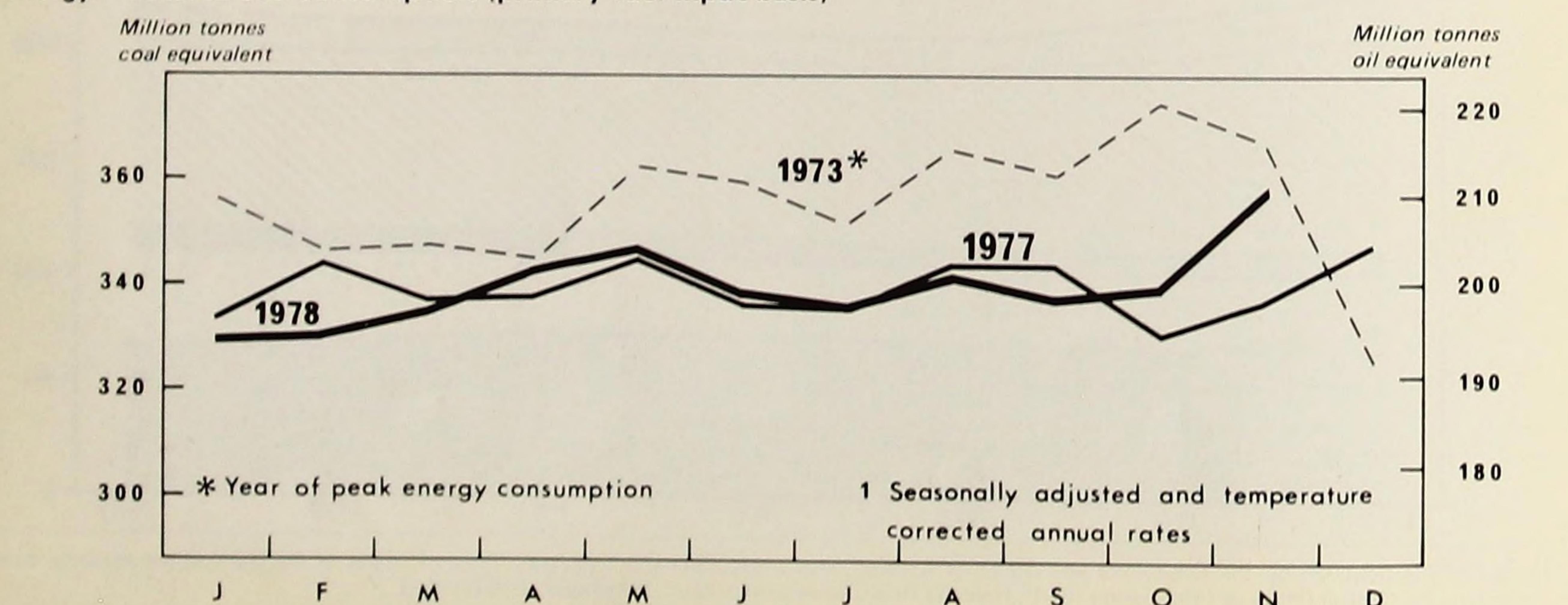


TABLE 3. Supply

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
1973	130,973	131,991	120,032	10,124	-1,018	1,675	2,693	10,478	5,658
1974	112,132	110,451	99,992	9,231	+1,681	3,546	1,865	10,518	16,253
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 p	123,655	123,569	107,528	14,167	+86	2,352	2,266	12,606	1,496
Per cent change	+0.8	+1.2	+0.4	+4.5	-82.7	-3.6	+16.7	+1.2	+83.8
1977 Oct	10,220	10,226	8,906	1,160	-6	132	138	74	64
Nov	10,532	10,366	9,039	1,167	+166	250	84	-	87
Dec*	13,071	12,984	11,358	1,400	+87	268	181	90	69
Total	33,823	33,576	29,303	3,727	+247	650	403	164	220
1978 Oct	10,189	10,350	9,004	1,203	-161	105	266	134	76
Nov	10,952	10,932	9,466	1,279	+20	272	252	5	82
Dec p*	13,107	13,222	11,747	1,316	-115	126	241	4	143
Total	34,248	34,504	30,217	3,798	-256	503	759	143	301
Per cent change	+1.3	+2.8	+3.1	+1.9		-22.6	+88.3	-12.8	+36.8

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			Other ⁸
		Collieries	Power stations ²	Coke ovens	Gas works	Other ³ conversion industries	Industry ⁴	House coal ⁶	
1973	133,291	1,381	76,774	21,890	512	3,586	12,080	12,667	1,819
1974	117,887	1,256	67,025	18,471	107	3,788	11,077	11,981	1,687
1975	122,216	1,238	74,569	19,085	10	4,063	9,685	9,915	1,703
1976	123,603	1,132	77,818	19,401	8	3,405	8,970	9,450	1,374
1977	123,978	1,124	79,956	17,406	7	3,166	9,033	9,635	1,503
1978 p	120,468	1,010	80,634	14,931	6	3,077	8,550	8,699	1,520
Per cent change	-2.8	-10.1	+0.8	-14.2	-14.3	-2.8	-5.3	-9.7	+1.1
1977 Oct	9,402	85	5,926	1,235	1	259	744	845	131
Nov	9,289	91	5,839	1,171	-	247	817	792	138
Dec*	13,490	132	8,964	1,454	1	348	1,048	1,036	174
Total	32,181	308	20,729	3,860	2	854	2,609	2,673	443
1978 Oct	9,259	61	6,016	1,177	1	264	700	762	134
Nov	9,892	61	6,550	1,189	-	251	765	770	151
Dec p*	14,035	119	9,715	1,480	1	294	1,087	907	156
Total	33,186	241	22,281	3,846	2	809	2,552	2,439	441
Per cent change	+3.1	-21.8	+7.5	-0.4	-	-5.3	-2.2	-8.8	-0.5

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

	Total	Distributed					Undistributed			Opencast sites and central stocking grounds
		Total distributed stocks	Power stations	Coke ovens	Gas works	Other	Total undistributed stocks	Collieries		
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 p	34,654	22,165	20,200	1,763	2	200	12,489	9,888		2,601
1977 Oct	30,809	21,667	19,409	2,024	1	233	9,142	7,584		1,558
Nov	32,077	21,829	19,389	2,196	1	243	10,248	8,682		1,566
Dec	31,534	21,804	19,128	2,368	2	206	9,830	8,290		1,540
1978 Oct	34,493	22,850	21,106	1,539	1	204	11,643	9,361		2,282
Nov	35,485	23,389	21,585	1,594	2	208	12,096	9,595		2,501
Dec p	34,654	22,165	20,200	1,763	2	200	12,489	9,888		2,601
Absolute change:										
In latest month	-831	-1,224	-1,385	+169	-	-8	+393	+293		+100
On a year ago	+3,120	+461	+1,072	-605	-	-6	+2,659	+1,598		+1,061

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

TABLE 6. Colliery manpower and productivity at NCB mines

	Wage earners on colliery books ¹		Recruitment	Wastage	Absence percentage ²			Average output per manshift ³	
	Total	Underground			Number	Total	Voluntary	Involuntary	Overall
	Thousands	Thousands				Per cent	Per cent	Per cent	At the face
1973	245	193			17,402	37,961	18.0	4.1	13.9
1974	246	194			26,436	25,133	16.3	4.1	12.2
1975	245	194			21,347	22,451	16.2	4.0	12.2
1976	241	192			17,061	21,239	17.4	3.7	13.7
1977	239	189			29,361	31,647	17.6	3.9	13.7
1978 p	232 ⁴	184 ⁴			20,595	27,653	17.3	4.3	13.0
Per cent change	-2.9	-2.6			-29.9	-12.6			+3.2
1977 Oct	239	189			2,200	2,450	17.8	4.2	13.6
Nov	239	189			2,114	1,885	17.5	4.2	13.3
Dec *	239	189			1,816	2,044	18.5	4.8	13.7
1978 Oct	233	184			1,316	2,196	17.6	4.5	13.1
Nov	232	184			1,450	1,849	17.3	4.5	12.8
Dec p *	232	184			1,410	1,981	17.5	5.1	12.4

1. At end of period. 2. The definition was changed from 1973. 3. Excluding capital working and tip coal.

4. The average number of wage earners during the period was as follows:—

Total — 237 Thousand (-1.7% compared with 1977).

Underground — 188 Thousand (-1.6% compared with 1977).

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		
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	329	6	284	15,854	40	15,814
Per cent change	+3.1	-5.0	(+)	-14.3	+71.1	+3.5	-46.7	+3.7
1977 Oct	1,074	968	106	—	19	1,063	3	1,060
Nov	1,434	1,316	118	—	18	1,432	4	1,428
Dec *	1,948	1,770	178	1	21	1,940	4	1,936
Total	4,456	4,054	402	1	58	4,435	11	4,424
1978 Oct	1,054	845	209	—	19	1,057	3	1,054
Nov	1,266	1,010	256	—	21	1,261	4	1,257
Dec p *	2,157	1,808	349	1	25	2,160	4	2,156
Total	4,477	3,663	814	1	65	4,478	11	4,467
Per cent change	+0.5	-9.6	(+)	-1.8	+12.1	+1.0	+4.0	+1.0

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
1972	9,787	630	437	3,215	4,509	996
1973	10,729	285	396	4,150	4,815	1,083
1974	12,668	985	395	4,635	5,384	1,269
1975	13,112	858	371	4,645	5,891	1,347
1976	13,997	662	438	5,182	6,194	1,521
1977	14,579	519	485	5,398	6,590	1,587
Per cent change	+4.2	-21.6	+10.7	+4.2	+6.4	+4.3
1976 3rd quarter	2,149	129	99	1,066	686	169
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	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	113	1,409	1,393	404
3rd quarter p	2,416	69	110	1,163	867	207
Per cent change	+1.9	-54.9	-2.7	+0.7	+12.5	+15.0

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 of coal or coal equivalent						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–Nov	101.41	71.02	15.82	1.51	11.47	1.53	233.20	32.47	195.76	17.48	215.72	218.88
1978 Jan–Nov p	101.82	71.32	17.28	0.94	10.70	1.49	235.96	30.00	201.49	16.70	219.26	222.75
Per cent change	+0.4	+0.4	+9.2	-37.8	-6.7	-2.6	+1.2	-7.6	+2.9	-4.5	+1.6	+1.8
1977 Sept*	9.68	6.74	1.35	0.16	1.31	0.12	22.02	3.72	17.92	1.72	20.30	20.66
Oct	8.48	5.90	1.36	0.15	0.91	0.15	19.33	2.62	16.25	1.47	17.86	18.12
Nov	9.85	6.22	2.39	0.19	0.77	0.28	22.09	2.20	18.94	1.54	20.55	20.85
Total	28.01	18.86	5.10	0.50	2.99	0.55	63.44	8.54	53.11	4.73	58.71	59.63
1978 Sept*	9.53	6.78	1.65	0.12	0.85	0.12	21.91	2.38	19.15	1.49	20.42	20.81
Oct	8.54	6.19	1.30	0.09	0.79	0.16	19.72	2.23	17.05	1.38	18.34	18.66
Nov p	9.30	6.72	1.38	0.06	0.90	0.23	21.55	2.53	18.46	1.46	20.09	20.41
Total	27.37	19.69	4.33	0.27	2.54	0.51	63.18	7.14	54.66	4.33	58.85	59.88
Per cent change	-2.3	+4.4	-15.1	-46.0	-15.1	-7.3	-0.4	-16.4	+2.9	-8.5	+0.2	+0.4
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–Nov	87.61	63.13	13.13	1.51	9.68	0.10	202.24	27.32	173.83	14.52	187.72	189.91
1978 Jan–Nov p	88.12	63.66	14.28	0.94	9.06	0.09	204.92	25.41	178.75	14.05	190.87	193.43
Per cent change	+0.6	+0.8	+8.8	-37.8	-6.4	-10.0	+1.3	-7.0	+2.8	-3.2	+1.7	+1.9
1977 Sept*	8.33	5.90	1.12	0.16	1.14	0.01	19.06	3.21	15.77	1.43	17.63	17.94
Oct	7.32	5.20	1.10	0.15	0.85	0.01	16.79	2.40	14.27	1.25	15.54	15.75
Nov	8.35	5.43	2.05	0.19	0.66	0.02	18.83	1.88	16.63	1.29	17.54	17.98
Total	24.00	16.53	4.27	0.50	2.65	0.04	54.68	7.49	46.67	3.97	50.71	51.67
1978 Sept*	8.25	6.13	1.35	0.12	0.63	0.01	18.98	1.77	17.14	1.24	17.74	18.10
Oct	7.40	5.55	1.08	0.09	0.66	0.01	17.16	1.88	15.22	1.18	15.98	16.23
Nov p	7.96	5.97	1.10	0.06	0.81	0.01	18.63	2.28	16.28	1.27	17.36	17.73
Total	19.99	17.65	3.53	0.27	2.10	0.03	54.77	5.93	48.64	3.69	51.08	51.96
Per cent change	-1.6	+6.8	-17.3	-46.0	-20.8	-25.0	+0.2	-20.8	+4.2	-7.1	+0.7	+0.6

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

	Total	Iron and steel industry	Other industries	Domestic	Other ¹
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 ²	76,561 ²	85,902	50,882
Per cent change	+2.2	-2.4	+2.1	+0.9	+5.7
1976 3rd quarter	43,112	2,875	17,314	13,584	9,339
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	3,054 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 p	67,847	3,369 ²	20,514 ²	28,380	15,584
2nd quarter p	53,050	3,376 ²	18,851 ²	18,674	12,149
3rd quarter p	46,804	2,979 ²	17,651 ²	15,206	10,968
Per cent change	+1.6	+2.3	-0.8	+1.8	+5.1

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

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

Thousand tonnes

	Total	Power ³ stations	Gas works	Iron and steel industry	Other industries	Transport ⁴	Domestic	Other ⁵
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-Oct	58,689	8,200	223	2,426	14,164	24,365	2,519	6,792
1978 Jan-Oct p	60,992	9,356	279	2,329	14,213	25,713	2,521	6,581
Per cent change	+3.9	+14.1	+25.2	-4.0	+0.3	+5.5	+0.1	-3.1
1977 Aug	4,967	566	13	193	1,044	2,659	126	366
Sept	5,609	751	16	246	1,252	2,576	221	547
Oct	5,876	853	31	245	1,363	2,511	234	639
Total	16,542	2,170	60	684	3,659	7,746	581	1,552
1978 Aug	5,281	725	25	165	1,051	2,803	137	375
Sept	5,653	867	24	214	1,174	2,712	191	471
Oct p	6,318	970	31	238	1,485	2,704	260	630
Total	17,252	2,562	80	617	3,710	8,219	588	1,476
Per cent change	+4.9	+18.0	+30.7	-9.8	+1.4	+6.1	+1.5	-4.9

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
	Million tonnes	Estimated days' supply ³	
1977 Oct	20.9	80	0.98
Nov	19.3	73	0.82
Dec	19.1	73	1.02
1978 Oct	18.9	69	1.14
Nov	18.6	70	1.14
Dec p	18.7	70	1.17

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 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

	Total	Total industry	Iron and steel	Engin-eering and other metal trades	Food drink and tobacco	Coal mining	Industry		Textiles, leather and clothing	Paper, printing and stationery	Other industries (including gas and water works)	Transport undertakings
							Nuclear ² power stations	Others ³				
1972	20,727	20,034	2,587	1,320	409	323	4,098	7,408	458	2,786	645	693
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	2,180	3,139	521	251	4,222	7,904	450	2,598	510	649
1975	20,470	19,781	1,660	3,319	435	297	3,820	7,305	406	2,137	402	689
1976	21,714	21,024	1,706	3,362	496	269	3,736	8,398	423	2,249	385	690
1977	20,969	20,268	1,555	3,463	516	278	3,604	7,931	355	2,168	398	701
Per cent change	-3.4	-3.6	-8.9	+3.0	+4.0	+3.3	-3.5	-5.6	-16.1	-3.6	+3.4	+1.6
1976 3rd quarter	4,898	4,737	367	790	72	58	812	1,982	96	479	81	161
4th quarter	5,742	5,570	450	864	246	74	992	2,134	107	604	99	172
1977 1st quarter	5,706	5,522	503	882	136	69	922	2,162	108	625	115	184
2nd quarter	4,962	4,791	351	885	78	77	802	1,877	93	533	95	171
3rd quarter	4,778	4,611	317	825	71	57	934	1,786	84	454	83	167
4th quarter	5,523	5,344	384	871	231	75	946	2,106	70	556	105	179
1978 1st quarter p	5,732	5,546	376	937	131	58	1,087	2,151	90	605	111	186
2nd quarter p	4,696	4,523	308	861	77	63	743	1,810	64	520	77	173
3rd quarter p	4,849	4,684	284	829	67	51	974	1,866	87	460	66	165
Per cent change	+1.5	+1.6	-10.4	+0.5	-5.6	-10.5	+4.3	+4.5	+3.6	+1.3	-20.5	-1.2

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