

# DEPARTMENT OF ENERGY

# ENERGY TRENDS

## A Statistical Bulletin

FEBRUARY 1985



### Total Energy

Provisional figures for 1984 as a whole show that total inland energy consumption on a primary fuel input basis was 312.1 million tonnes of coal or coal equivalent (mtce), that is 0.8 million tonnes or 0.2 per cent less than in 1983.

Although consumption of coal in the first three months of 1984 was 0.6 per cent higher than in the same period of 1983, the dispute in the coal mining industry resulted in consumption in 1984 as a whole being 29.3 per cent less than in 1983. Petroleum consumption was 27.2 per cent higher in 1984. Coal and petroleum figures refer mainly to deliveries into consumption. The relationship between deliveries, stock draw and consumption has been abnormal during the coal mining dispute. Consumption of natural gas and nuclear electricity rose by 2.7 per cent and 7.6 per cent respectively. Consumption of hydro electricity fell by 12.7 per cent and was affected by low water levels following the mild spring and dry summer.

Figures for the fourth quarter of 1984 show total inland energy consumption, at 84.4 mtce, to have been 0.3 per cent lower than in the same period in 1983. Consumption of coal was 45.4 per cent lower, whilst consumption of petroleum was 45.3 per cent higher. Consumption of natural gas and nuclear electricity rose by 1 per cent and 12.6 per cent respectively.

On a seasonally adjusted and temperature corrected basis total consumption in the fourth quarter of 1984 was 0.3 per cent higher than in the same quarter of the previous year. Consumption of coal was down by 45.4 per cent, whilst consumption of petroleum was 47.1 per cent higher and natural gas 2.3 per cent higher.

### Fuel Price Indices

#### Domestic Sector

The price indices for fuel and light, petrol and oil, and all fuels each rose by 3 per cent in current terms between 1983 and 1984. The Retail Price Index (excluding fuels) increased by 5 per cent. The index for coal and coke rose by 8 per cent and that for gas by 4 per cent. The indices for electricity and heating oils were both higher by 1 per cent. In deflated terms the indices for fuel and light, petrol and oil, and all fuels fell by 2 per cent. The indices for gas, electricity and heating oils fell by 2, 4 and 5 per cent respectively, whilst the index for coal and coke rose by 2 per cent.

Between the fourth quarters of 1983 and 1984 the current price index for fuel and light increased by 4 per cent and those for petrol and oil and all fuels by 3 per cent each. The coal and coke index rose by 9 per cent, the gas index by 4 per cent and that for electricity by 2 per cent and the index for heating oils by 3 per cent. The Retail Price Index (excluding fuels) rose by 5 per cent. Hence in deflated terms the price index for fuel and light fell by 1 per cent and those for petrol and oil and all fuels by 2 per cent each, between the fourth quarter of 1983 and that of 1984. The corresponding indices for gas, electricity and heating oils fell by 1 per cent, 3 per cent and 2 per cent respectively. The deflated coal and coke price index was higher by 4 per cent.

#### Industrial Sector

Commencing with this edition the industrial sector tables include a seasonally adjusted series for the electricity price index. The actual industrial electricity price index is highly seasonal because of the way in which demand charges are levied. These are lowest in summer months but rise sharply in the autumn to reach a peak in the winter months. The seasonal behaviour of the actual series makes interpretation of movements between different quarters in the same year (or successive years) extremely difficult. With the seasonality removed, however, such movements can be meaningfully interpreted and the pattern of the long term trend clarified. It should be noted that the latest figures in the seasonally adjusted series are always subject to revision as movements in the actual series over the next quarters constitute part of the seasonal adjustment process.

The price index for all fuels increased by 9 per cent in current terms between the third quarter of 1983 and that of 1984. The coal price index rose by 2 per cent, the index for heavy fuel oil by 21 per cent and the index for gas by 5 per cent. There was no change in the index for electricity.

The Producer Price Index of materials rose by 9 per cent. Hence in deflated terms the price index for all fuels was unchanged between the third quarter of 1983 and that of 1984. The coal price index fell by 6 per cent over this period, whilst the heavy fuel oil price index increased by 12 per cent. The gas and electricity price indices fell by 4 per cent and 8 per cent respectively.

#### Coal

Provisional figures for 1984 show that, because of the dispute in the coal mining industry, total coal production at 51.0 million tonnes was 57.3 per cent less than in 1983. Deep-mined output was 35.0 million tonnes with opencast production at 14.3 million tonnes. In total use of home produced and imported coal in 1984, at 77.1 million tonnes, was 30.9 per cent lower.

Coal use fell both for fuel producers and final users, but because no reliable allocation of coal imports for final users is available, comparative changes by individual sector should be treated with caution.

Total stocks of coal at the end of 1984 stood at 36.5 million tonnes, 20.3 million tonnes less than at the end of 1983. Total distributed stocks were 17.1 million tonnes lower, and undistributed stocks 3.2 million tonnes lower. Provisional figures for the three months October to December 1984 show total coal production at 11.0 million tonnes, production of deep-mined coal at 7.0 million tonnes and opencast production at 3.6 million tonnes.

Use of home produced and imported coal in this period was 16.3 million tonnes, 45.4 per cent less than in the same period a year ago.

#### Gas

Provisional figures for 1984 show that 17,884 million therms of natural gas were supplied into the public supply system, 3.1 per cent more than in 1983. Indigenous supplies, which represented 72.1 per cent of total supplies, were down by 1.5 per cent, whilst imported supplies rose by 17.3 per cent.

In the fourth quarter of 1984 5,213 million therms of natural gas were supplied into the public supply system, 0.7 per cent more than in the same period in 1983. Indigenous supplies were higher by 2.7 per cent, whilst imported supplies were lower by 4.3 per cent.

#### Electricity

Provisional figures for 1984 show that 246 terrawatt hours of electricity were supplied by the public supply system, 2.1 per cent more than in 1983. Total fuel used on a coal equivalent basis was 1.3 per cent more. Because of the coal mining dispute, use of coal was 34.4 per cent less, whilst use of oil was four times higher, at 36.2 mtce. Use of nuclear electricity, at 17.7 mtce, was up by 7.6 per cent.

Figures for the fourth quarter of 1984 show that 1.2 per cent more electricity was supplied by the public supply system compared with the same period a year ago. Total fuel used on a coal equivalent basis was one per cent higher.

#### Petroleum

Provisional figures for 1984 as a whole show that indigenous crude oil production, at 121.1 million tonnes, was 9.3 per cent or 10.3 million tonnes higher than in 1983. Production of natural gas liquids was 17.1 per cent higher, at 4.8 million tonnes. Provisional figures for refinery output in 1984, at 73.2 million tonnes, show an increase of 3.2 per cent or 2.3 million tonnes compared with 1983. Output of motor spirit rose by 5.6 per cent or 1.2 million tonnes and kerosene by 14.2 per cent or 0.9 million tonnes, whilst output of fuel oil fell by 3.1 per cent or 0.4 million tonnes. Deliveries of petroleum products for inland consumption were 26.1 per cent higher than in 1983, with deliveries of motor spirit up by 3.4 per cent, kerosene by 5.0 per cent and gas/diesel oil by 3.8 per cent. Deliveries of fuel oil, the product most affected by the coal dispute, more than doubled.

Production of crude oil in the three months October to December 1984 was 31.9 million tonnes. Production of natural gas liquids was 1.4 million tonnes. Total output of petroleum products in the period increased by 6.9 per cent compared with the same 3 months of 1983, with increased output of petroleum gases, motor spirit, kerosene, fuel oil and lubricating oils. Deliveries of petroleum products for inland consumption in the period were 44.1 per cent higher than a year ago, with increased deliveries of naphtha, motor spirit, aviation turbine fuel, standard burning oil, gas/diesel oil and lubricating oils. Fuel oil deliveries almost trebled.

#### Supplementary Data

##### Typical Retail Prices of Motor Spirit and Derv

In this month's table typical retail prices of motor spirit and derv for January 1985 are shown.

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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.

Due to rounding the sum of the constituent items may not equal the totals.

Percentage changes relate to the corresponding period a year ago. These comparisons can be affected by calendar differences.

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.

### 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 <sup>1</sup>	Petroleum <sup>2</sup>	Natural <sup>3</sup> gas	Nuclear electricity	Hydro electricity
<i>Million tonnes of coal or coal equivalent</i>						
1980	328.7	120.8	121.4	71.1	13.40	2.00
1981	317.2	118.2	110.9	72.1	13.70	2.30
1982	311.9	110.7	111.1	71.7	16.00	2.40
1983	312.9	111.5	106.1	74.8	18.10	2.37
1984 p	312.1	78.8	135.0	76.8	19.48	2.07
Per cent change	–0.2	–29.3	+27.2	+2.7	+7.6	–12.7
1983 Oct	23.9	8.9	8.0	5.5	1.32	0.26
Nov	26.5	9.5	8.5	6.9	1.39	0.20
Dec*	34.3	11.5	11.0	9.5	2.02	0.28
Total	84.7	29.8	27.5	21.9	4.73	0.74
1984 Oct	23.6	4.9	11.6	5.5	1.45	0.14
Nov	26.1	5.2	12.3	6.8	1.58	0.22
Dec *p	34.7	6.2	16.0	9.9	2.30	0.34
Total	84.4	16.3	40.0	22.1	5.33	0.71
Per cent change	–0.3	–45.4	+45.3	+1.0	+12.6	–4.2

<i>Seasonally adjusted and temperature corrected<sup>4</sup> (annual rates)</i>						
1983 Oct	319.8	116.2	103.9	78.7	18.28	2.72
Nov	309.0	112.0	102.0	76.0	16.94	1.90
Dec*	300.9	105.8	99.1	75.7	18.27	2.04
Average	309.9	111.4	101.7	76.8	17.83	2.22
1984 Oct	315.0	62.9	153.2	78.0	19.72	1.29
Nov	311.6	62.2	149.0	78.6	19.69	2.18
Dec *p	306.1	57.3	146.3	79.1	20.80	2.56
Average	310.9	60.8	149.5	78.6	20.07	2.01
Per cent change	+0.3	–45.4	+47.1	+2.3	+12.6	–9.6

Total	Coal <sup>1</sup>	Petroleum <sup>2</sup>	Natural <sup>3</sup> gas	Nuclear electricity	Hydro electricity
<i>Million tonnes of oil or oil equivalent</i>					
193.3	71.1	71.4	41.8	7.80	1.20
186.6	69.6	65.2	42.4	8.10	1.30
183.5	65.1	65.4	42.2	9.40	1.40
184.1	65.6	62.5	44.0	10.65	1.39
183.6	46.4	79.4	45.2	11.46	1.22
–0.2	–29.3	+27.2	+2.7	+7.6	–12.7
14.1	5.2	4.7	3.2	0.78	0.15
15.6	5.6	5.0	4.0	0.82	0.12
20.2	6.7	6.5	5.6	1.19	0.16
49.8	17.6	16.2	12.9	2.78	0.43
13.9	2.9	6.8	3.2	0.85	0.08
15.4	3.1	7.2	4.0	0.93	0.13
20.4	3.6	9.4	5.8	1.35	0.20
49.6	9.6	23.5	13.0	3.14	0.42
–0.3	–45.4	+45.3	+1.0	+12.6	–4.2

188.1	68.3	61.1	46.3	10.75	1.60
181.7	65.9	60.0	44.7	9.97	1.12
177.0	62.3	58.3	44.5	10.75	1.20
182.3	65.5	59.8	45.2	10.49	1.31
185.3	37.0	90.1	45.9	11.60	0.76
183.3	36.6	87.6	46.2	11.58	1.28
180.1	33.7	86.1	46.5	12.24	1.51
182.9	35.8	87.9	46.2	11.81	1.18
+0.3	–45.4	+47.1	+2.3	+12.6	–9.6

1. Consumption by fuel producers plus disposals (including imports) to final users, plus (for annual figures only) net foreign trade and stock change in other solid fuels. 2. Inland deliveries for energy use plus refinery fuel and losses minus the differences between deliveries and actual consumption at power stations and gas works. 3. Including non-energy use and excluding gas flared or re-injected. 4. Coal, petroleum and natural gas are temperature corrected.

## Energy: Total inland consumption (primary fuel input basis)<sup>1</sup>

Million tonnes coal equivalent

Million tonnes oil equivalent

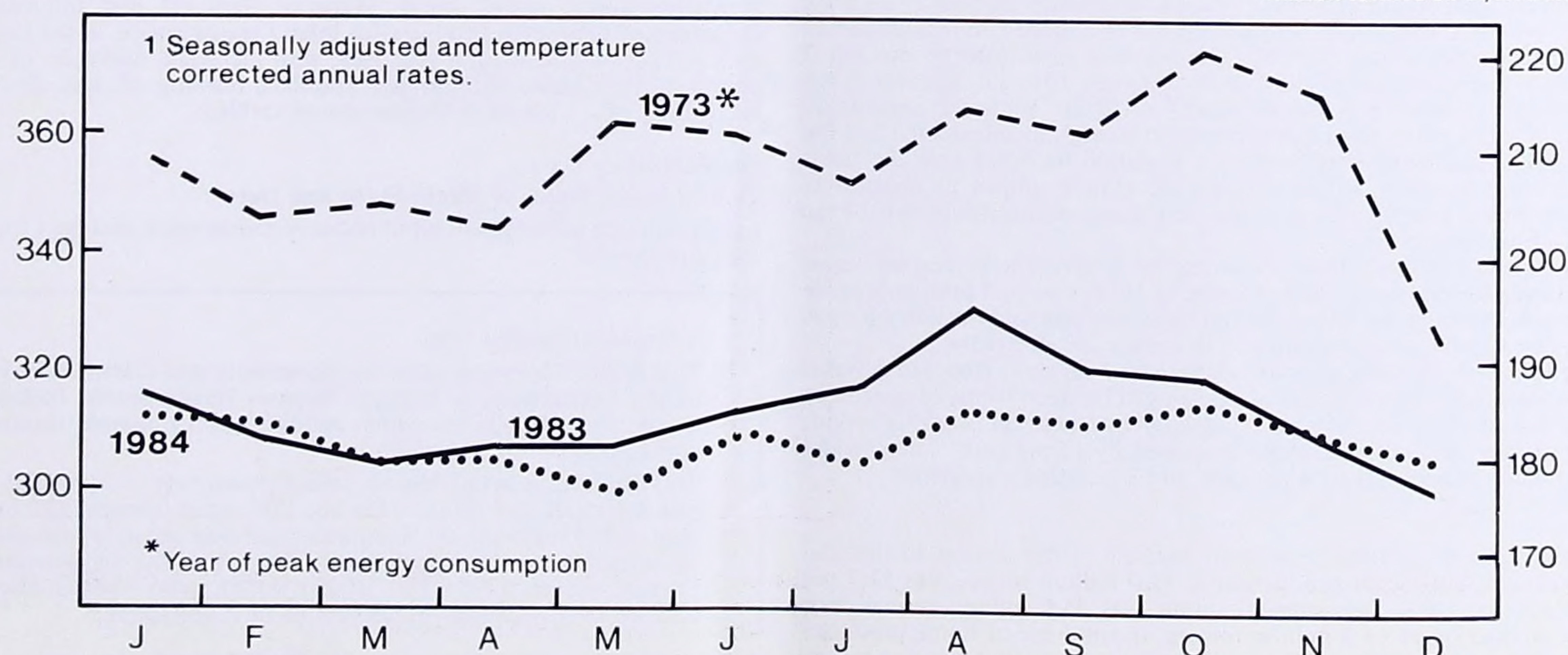




TABLE 2. Fuel price indices for the domestic and industrial sectors<sup>1</sup> 1980 = 100

	Coal and Coke	Gas	Electricity	Heating Oils <sup>2</sup>	Fuel and Light	Petrol and Oil	Fuel, Light, Petrol and Oil	Retail Price Index — All items excluding fuels
DOMESTIC SECTOR: Current fuel price index numbers								
1970	22	40	22	15	25	25	25	28
1979	78	86	79	75	80	78	79	85
1980	100	100	100	100	100	100	100	100
1981	118	126	120	119	121	118	120	111
1982	126	157	132	135	138	128	134	120
1983	134	176	137	153	149	137	144	125
1984	145	182	139	154	153	141	148	132
Per cent change 1983 to 1984	+8	+4	+1	+1	+3	+3	+3	+5
1983 4th quarter	140	176	137	155	150	140	146	128
1984 1st quarter	142	179	137	153	151	139	146	129
2nd quarter	142	183	138	151	153	140	147	131
3rd quarter	142	183	140	152	153	141	148	132
4th quarter	152	183	140	159	155	145	151	134
Per cent change 4th quarter 1983 to 4th quarter 1984	+9	+4	+2	+3	+4	+3	+3	+5
DOMESTIC SECTOR: Deflated <sup>3</sup> fuel price index numbers								
1970	78	143	78	54	88	88	88	
1979	92	101	92	88	94	92	93	
1980	100	100	100	100	100	100	100	
1981	106	114	108	107	109	107	108	
1982	105	131	110	113	115	106	112	
1983	107	141	110	122	119	109	115	
1984	110	139	105	117	116	107	112	
Per cent change 1983 to 1984	+2	-2	-4	-5	-2	-2	-2	
1983 4th quarter	110	138	107	121	117	110	114	
1984 1st quarter	110	140	107	119	117	108	113	
2nd quarter	108	140	105	115	116	107	112	
3rd quarter	107	139	106	115	116	107	112	
4th quarter	114	137	104	118	116	108	112	
Per cent change 4th quarter 1983 to 4th quarter 1984	+4	-1	-3	-2	-1	-2	-2	
	Coal <sup>4</sup>	Heavy Fuel Oil <sup>4</sup>	Gas <sup>5</sup>	Electricity <sup>5</sup>	Total Fuel		Producer Price Index of Materials	
INDUSTRIAL SECTOR: Current fuel price index numbers								
1970	18	10	26	24	19	29 <sup>6</sup>		
1979	78	71	73	81	76	96		
1980	100	100	100	100	100	100		
1981	116	120	122	116	118	106		
1982	126	126	129	127	127	113		
1983	130	139	131	127	132	121		
Per cent change 1982 to 1983	+4	+10	+2	—	+4	+7		
				Actual	Seasonally adjusted			
1982 4th quarter	129	132	130	137	132	114		
1983 1st quarter	130	137	133	144	131	118		
2nd quarter	128	136	132	117	124	120		
3rd quarter	129	138	129	116	126	121		
4th quarter	135	145	131	133	128	125		
1984 1st quarter	132	154	133	140	127	130		
2nd quarter	127	161	135	119	127(r)	133		
3rd quarter	131	168	135	116	127(r)	132		
Per cent change 3rd quarter 1983 to 3rd quarter 1984	+2	+21	+5	—	—	+9		+9
INDUSTRIAL SECTOR: Deflated <sup>7</sup> fuel price index numbers								
1970	61	36	87	83	66			
1979	81	74	76	84	79			
1980	100	100	100	100	100			
1981	109	113	115	109	112			
1982	111	111	114	112	112			
1983	107	115	108	105	109			
Per cent change 1982 to 1983	-3	+3	-5	-6	-3			
				Actual	Seasonally adjusted			
1982 4th quarter	113	116	115	121	115	117		
1983 1st quarter	110	116	112	121	111	117		
2nd quarter	107	113	110	97	105	106		
3rd quarter	106	114	107	96	103	105		
4th quarter	108	116	104	107	101	109		
1984 1st quarter	102	119	103	108	99	110		
2nd quarter	96	121	102	89	97(r)	103		
3rd quarter	99	127	102	88	95(r)	105		
Per cent change 3rd quarter 1983 to 3rd quarter 1984	-6	+12	-4	-8	-8	—		

1. Index numbers shown represent the average for the period specified. 2. Bottled gas, paraffin and oil fuel. 3. Obtained by deflating the domestic sector current fuel price index by the Retail Price Index series above. 4. Indices based on a survey of the prices of fuels delivered to large industrial consumers. 5. Indices based on the average unit value of sales to industrial consumers. 6. Wholesale Price Index for materials (excluding crude oil and carbonising coal). 7. Obtained by deflating the industrial sector current fuel price index by the Producer Price Index series above. (r) = subject to revision.



# Coal

TABLE 3. Coal production, foreign trade and deep-mined tonnage lost

Thousand tonnes

	Production			Net imports	Imports <sup>2</sup>	Shipments <sup>3</sup>	Tonnage lost (deep-mined) <sup>4</sup>	
	Total <sup>1</sup>	Deep-mined	Opencast				Recognised holidays and rest days	Disputes
1980	130,097	112,430	15,779	+3,525	7,334	3,809	12,039	1,226
1981	127,469	110,473	14,828	-4,823	4,290	9,113	13,204	1,191
1982	124,711	106,161	15,266	-3,384	4,063	7,447	12,401	3,468
1983	119,254	101,742	14,706	-2,105	4,456	6,561	12,021	4,499
1984 p	50,969	35,030	14,306	+6,601	8,894	2,293	11,083	64,972
Per cent change	-57.3	-65.6	-2.7		+99.6	-65.1	-7.8	(+)
1983 Oct	10,421	8,844	1,231	+61	473	412	43	150
Nov	9,254	7,758	1,272	-370	287	657	-	1,364
Dec*	8,730	7,378	1,205	-357	226	583	2,198	1,629
Total	28,406	23,980	3,708	-665	986	1,651	2,241	3,143
1984 Oct	3,527	2,168	1,201	+992	1,038	46	13	6,039
Nov	3,637	2,317	1,113	+1,127	1,175	48	-	6,257
Dec *p	3,853	2,509	1,241	+932	998	66	1,965	6,015
Total	11,016	6,994	3,555	+3,051	3,211	160	1,977	18,310
Per cent change	-61.2	-70.8	-4.1		(+)	-90.3	-11.8	(+)

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. Shipments as recorded by the NCB; the figures may differ from those published in Overseas Trade Statistics. 4. NCB only.

TABLE 4. Inland coal use

Thousand tonnes

	Total	Fuel producers (consumption)				Final users (disposals by collieries and opencast sites)			
		Primary	Secondary			Industry	Domestic		Miscellaneous <sup>5</sup>
		Collieries	Power stations <sup>1</sup>	Coke ovens	Other <sup>2</sup> conversion industries		House coal <sup>3</sup>	Other <sup>4</sup>	
1980	123,460	663	89,569	11,610	3,022	7,841	7,262	1,684	1,809
1981	118,386	616	87,226	10,805	2,458	6,990	6,851	1,603	1,837
1982	110,998	534	80,228	10,406	2,326	7,122	6,719	1,756	1,907
1983	111,475	486	81,565	10,448	2,114	7,193	6,212	1,660	1,797
1984 p	77,065	209	53,411	7,939	1,349 <sup>6</sup>	5,313	3,443	1,567	3,833
Per cent change	-30.9	-56.9	-34.5	-24.0	-36.2	-26.1	-44.6	-5.6	(+)
1983 Oct	8,865	42	6,289	979		694	520	152	190
Nov	9,507	36	7,138	989		562	435	130	216
Dec*	11,464	51	8,800	1,184		583	494	139	213
Total	29,836	128	22,227	3,152		1,840	1,448	422	619
1984 Oct p	4,907	15	2,888	717 <sup>6</sup>		443	242	180	421
Nov p	5,211	9	2,991	792 <sup>6</sup>		505	338	144	432
Dec *p	6,173	17	3,769	1,009 <sup>6</sup>		432	333	164	449
Total	16,290	41	9,648	2,519 <sup>6</sup>		1,381	913	488	1,302
Per cent change	-45.4	-68.0	-56.6	-20.1		-24.9	-36.9	+15.6	(+)

1. Public supply and railway and transport power stations. 2. Gas works, low temperature carbonisation and patent fuel plants. 3. Including miners' coal. 4. Anthracite, dry steam coal and imported naturally smokeless fuels. 5. Includes public administration and commerce. Short term data includes coal imports for final users (including merchants' yards etc.) for which no reliable allocation by sector is available. 6. Partly estimated.

TABLE 5. Stocks of coal<sup>1</sup> at end of period: Great Britain

Thousand tonnes

	Total	Distributed				Undistributed		
		Total distributed stocks	Power stations	Coke ovens	Other	Total undistributed stocks	Collieries	Opencast sites
1980	37,687	20,370	18,616	1,611	143	17,317	13,091	4,226
1981	42,253	20,136	18,263	1,730	143	22,117	17,435	4,682
1982	52,377	30,422	28,291	1,992	139	21,955	17,675	4,280
1983 <sup>2</sup>	57,960	33,964	31,907	1,786	271	23,996	18,909	5,088
1984 p	36,508	15,755	14,402	1,213	140	20,753	10,969	9,784
1983 Oct	60,006	35,556	33,634	1,755	167	24,450	19,305	5,145
Nov	59,548	35,016	32,988	1,857	171	24,532	19,349	5,183
Dec <sup>3</sup>	56,813	32,897	30,903	1,738	256	23,916	18,831	5,085
1984 Oct p	38,535	16,900	15,484	1,221	195	21,635	12,313	9,322
Nov p	37,873	16,788	15,323	1,270	195	21,085	11,565	9,520
Dec p	36,561	15,808	14,402	1,213	193	20,753	10,969	9,784
Absolute change: in latest month	-1,312	-980	-921	-57	-2	-332	-596	+264
on a year ago	-20,252	-17,089	-16,501	-525	-63	-3,163	-7,862	+4,699

1. Excluding distributed stocks held in merchants' yards, etc., mainly for the domestic market, and stocks held by the industrial sector. 2. At 24th December 1983. 3. At 31st December 1983.



TABLE 6. Colliery manpower and productivity at NCB mines

	Wage earners on colliery books <sup>1</sup>		Recruitment	Wastage	Absence percentage			Average output per manshift <sup>4</sup>		
	Total	Underground			Total	Voluntary <sup>2</sup>	Involuntary <sup>3</sup>	Overall <sup>5</sup>	Underground	
									Total <sup>5</sup>	Produ- ction <sup>6</sup>
	Thousands		Number		Per cent			Tonnes		
1980	228	182	14,749	19,383	13.1	4.1	9.0	2.32	2.95	9.05
1981	215	174	6,123	18,771	11.4	3.5	7.9	2.38	3.00	9.43
1982	206	167	6,709	16,327	10.6	3.6	7.0	2.41	3.03	9.88
1983	187	152	3,180	22,318	10.6	3.4	7.2	2.51	3.14	10.58
1984 p	174 <sup>7</sup>	141 <sup>7</sup>	1,511	14,001	7.9	1.5	6.4	2.23	2.76	10.31
Per cent change	-6.8	-6.9	-52.5	-37.3				-11.0	-12.1	-2.6
1983 Oct	189	154	358	1,588	11.1	3.7	7.5	2.63	3.28	10.97
Nov	188	153	208	1,814	11.5	3.9	7.6	2.47	3.04	10.23
Dec*	186	152	174	1,468	11.2	3.6	7.5	2.40	2.95	10.00
1984 Oct	175	142	165	634	6.1	0.9	5.1	2.41	2.96	11.53
Nov	174	142	230	578	5.8	1.0	4.9	2.36	2.94	11.68
Dec* p	174	141	140	593	5.4	1.1	4.4	1.16	2.78	11.39

1. At the end of period. 2. Based on absence for which no reason has been given (i.e. excludes absence through industrial disputes). 3. Based on absence mainly for reasons of sickness or injury. 4. Excluding capital working and tip coal. 5. Total output of saleable deep mined revenue coal divided by the number of manshifts worked. 6. Output of saleable deep mined revenue coal from production faces divided by the number of production manshifts worked. 7. Average number during the period was as follows: Total 178 thousand (-9.4 per cent compared with 1983), Underground 145 thousand (-9.3 per cent compared with 1983).

## Gas

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

	Natural gas supply					Gas sent out <sup>2</sup>
	Total into system	Source <sup>1</sup>				
		Indigenous	Imported	Indigenous	Imported	
	Million therms			Percentage of total		Million therms
1980	17,075	13,116	3,959	76.8	23.2	17,105
1981	17,153	12,899	4,254	75.2	24.8	17,130
1982	16,806	12,905	3,901	76.8	23.2	16,740
1983	17,344	13,090	4,254	75.5	24.5	17,204
1984 p	17,884	12,893	4,992	72.1	27.9	17,788
Per cent change	+3.1	− 1.5	+17.3			+3.4
1983 Oct	1,273	873	400	68.6	31.4	1,256
Nov	1,626	1,167	459	71.8	28.2	1,611
Dec*	2,278	1,680	598	73.7	26.3	2,274
Total	5,176	3,719	1,457	71.8	28.2	5,141
1984 Oct	1,273	908	365	71.3	28.7	1,258
Nov	1,595	1,159	436	72.7	27.3	1,582
Dec *p	2,344	1,750	594	74.7	25.3	2,338
Total	5,213	3,818	1,395	73.2	26.8	5,178
Per cent change	+0.7	+2.7	− 4.3			+0.7

1. Figures differ from production and imports respectively because of stock changes and small quantities not entering the public supply system.  
2. Includes small quantities of Substitute Natural Gas and Town Gas.

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>
1979	16,591	239	538	5,622	8,225	1,967
1980	16,630	140	451	5,539	8,439	2,061
1981	16,622	78	409	5,261	8,764	2,110
1982	16,657	76	365	5,319	8,719	2,178
1983	16,844	77	342	5,295	8,871	2,260
Per cent change	+1.1	+1.3	-6.3	-0.5	+1.7	+3.8
1982 3rd quarter	2,275	18	80	1,048	923	206
4th quarter	5,000	20	80	1,439	2,804	657
1983 1st quarter	5,963	20	91	1,519	3,451	883
2nd quarter	3,677	19	86	1,284	1,793	494
3rd quarter	2,190	18	77	1,043	836	215
4th quarter	5,014	20	88	1,448	2,790	668
1984 1st quarter p	6,417	21	101	1,627	3,719	950
2nd quarter p	3,504	19	97	1,275	1,655	458
3rd quarter p	2,336	48	85	1,078	902	222
Per cent change	+6.7	(+)	+10.4	+3.4	+7.9	+3.3

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



# Electricity

TABLE 9. Fuel used by, and electricity production and availability from the public supply system

	Fuel used						Electricity generated			Own <sup>5</sup> use	Electricity supplied	Electricity <sup>6</sup> available
	Total <sup>1</sup>	Coal <sup>2</sup>	Oil <sup>2 3</sup>	Natural gas	Nuclear electricity	Hydro electricity	Total <sup>4</sup>	By steam plant				
								Nuclear	Other			
	Million tonnes coal or coal equivalent						TWh					
United Kingdom												
1980	114.77	89.57	11.23	0.22	11.93	1.72	266.38	33.46	227.97	18.71	246.67	251.34
1981	110.19	87.23	8.69	—	12.17	2.03	259.73	34.04	220.26	17.62	242.11	246.22
1982	107.07	79.95	10.63	—	14.41	2.02	255.44	40.00	209.96	17.65	237.79	242.02
1983	108.03	81.44	8.08	—	16.47	2.02	260.44	45.78	208.51	19.13	241.31	246.02
1984 p	109.45	53.41	36.17	0.39	17.72	1.75	265.92	49.50	209.10	19.62	246.30	250.44
Per cent change	+ 1.3	- 34.4	(+)	(+)	+ 7.6	- 13.5	+ 2.1	+ 8.1	+ 0.3	+ 2.6	+ 2.1	+ 1.8
1983 Oct	8.43	6.29	0.71	—	1.21	0.23	20.21	3.34	16.25	1.45	18.75	19.12
Nov	9.26	7.14	0.69	—	1.26	0.17	22.26	3.51	18.23	1.63	20.63	21.05
Dec*	11.72	8.80	0.83	—	1.84	0.24	28.30	5.08	22.47	2.06	26.23	26.77
Total	29.41	22.23	2.23	—	4.30	0.64	70.76	11.93	56.95	5.14	65.62	66.94
1984 Oct	8.48	2.89	4.11	0.09	1.29	0.11	20.42	3.63	16.04	1.47	18.94	19.23
Nov	9.34	2.99	4.63	0.09	1.43	0.20	22.44	4.02	17.31	1.66	20.78	21.13
Dec *p	11.88	3.77	5.56	0.12	2.12	0.31	28.85	5.89	21.65	2.13	26.72	27.16
Total	29.70	9.65	14.30	0.29	4.84	0.63	71.70	13.54	55.00	5.26	66.44	67.52
Per cent change	+ 1.0	- 56.6	(+)	(+)	+ 12.6	- 2.0	+ 1.3	+ 13.5	- 3.4	+ 2.2	+ 1.2	+ 0.9
England and Wales												
1980	99.21	80.77	8.56	0.22	9.44	0.12	230.94	26.55	203.71	15.59	215.25	217.71
1981	94.47	78.63	6.11	—	9.53	0.13	224.32	26.70	196.85	14.83	209.49	213.36
1982	91.84	72.97	7.57	—	11.13	0.11	220.51	30.97	188.77	14.70	205.81	211.02
1983	93.57	76.31	4.40	—	12.72	0.11	226.32	35.53	189.42	16.11	210.21	214.75
1984 p	93.44	49.87	29.30	0.40	13.78	0.09	226.97	38.76	185.02	16.50	210.46	219.20
Per cent change	- 0.1	- 34.6	(+)	(+)	+ 8.3	- 23.2	+ 0.3	+ 9.1	- 2.3	+ 2.4	+ 0.1	+ 2.1
1983 Oct	7.26	5.94	0.38	—	0.92	0.02	17.49	2.56	14.81	1.24	16.26	16.69
Nov	7.90	6.60	0.35	—	0.94	0.01	19.08	2.66	16.30	1.37	17.71	18.39
Dec*	9.96	8.17	0.38	—	1.40	0.02	24.18	3.88	20.11	1.73	22.46	23.25
Total	25.12	20.71	1.11	—	3.26	0.04	60.75	9.11	51.22	4.33	56.42	58.32
1984 Oct	7.30	2.85	3.38	0.09	0.98	0.01	17.44	2.79	14.18	1.26	16.18	16.90
Nov	7.99	2.92	3.81	0.09	1.16	0.02	19.06	3.28	15.11	1.41	17.65	18.42
Dec *p	10.11	3.69	4.55	0.12	1.74	0.02	24.46	4.86	18.96	1.81	22.64	23.56
Total	25.40	9.45	11.74	0.29	3.87	0.04	60.96	10.92	48.25	4.48	56.48	58.87
Per cent change	+ 1.1	- 54.4	(+)	(+)	+ 18.7	+ 18.9	+ 0.3	+ 19.9	- 5.8	+ 3.6	+ 0.1	+ 0.9

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. 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>
1979	240,786	13,778	81,037	89,672	56,299
1980	229,909	9,529	77,543	86,107	56,730
1981	226,195	10,490	74,055	84,439	57,211
1982	221,630	9,764	71,483	82,787	57,596
1983	224,907	9,363	72,057	82,953	60,534
Per cent change	+ 1.5	- 4.1	+ 0.8	+ 0.2	+ 5.1
1982 3rd quarter	46,084	2,181	16,646	15,007	12,250
4th quarter	60,019	2,185	18,129	23,876	15,829
1983 1st quarter	64,234	2,479	18,963	25,620	17,176
2nd quarter	52,885	2,334	17,660	18,698	14,192
3rd quarter	47,061	2,133	16,910	15,022	12,993
4th quarter	60,727	2,417	18,524	23,613	16,173
1984 1st quarter p	67,451	2,540	19,749	26,894	18,269
2nd quarter p	52,536	2,362	17,612	18,213	14,348
3rd quarter p	48,349	2,097	17,445	15,331	13,476
Per cent change	+ 2.7	- 1.7	+ 3.2	+ 2.1	+ 3.7

1. Mainly commerce, public administration and agriculture.



# Petroleum

TABLE 11. Indigenous production, refinery receipts, arrivals and shipments<sup>1</sup>

	Indigenous Oil Production			Crude Oil <sup>3</sup>						Petroleum Products		
				Refinery Receipts			Foreign Trade <sup>7</sup>			Foreign Trade <sup>7</sup>		Bunkers <sup>9</sup>
	Total <sup>2</sup>	Crude Oil	NGLs	Indigenous <sup>4</sup>	Other <sup>5</sup>	Net Foreign <sup>6</sup> Arrivals	Arrivals	Shipments		Arrivals	Shipments	
								Indigenous	Other <sup>8</sup>			
	Million tonnes			Thousand tonnes								
1980	80.5	78.9	1.6	39,844	2,005	45,556	46,717	38,531	1,161	9,246	14,598	2,457
1981	89.5	88.0	1.5	37,769	2,486	36,361	36,855	51,149	494	9,402	12,793	2,073
1982	103.2	100.3	2.9	40,294	3,162	33,249	33,754	60,195	505	12,524	13,585	2,583
1983	114.9	110.8	4.1	44,815	2,366	29,163	30,324	67,397	1,161	9,907	14,674	2,019
1984 p	125.9	121.1	4.8	45,354	2,196	30,878	32,200	77,271	1,322	22,994	13,997	2,073
Per cent change	+9.6	+9.3	+17.1	+1.2	-7.2	+5.9	+6.2	+14.7	+13.9	(+)	-4.6	+2.7
1983 Oct	10.1	9.7	0.4	3,713	114	2,649	2,788	5,981	139	848	1,306	185
Nov	10.3	9.9	0.4	2,835	189	2,396	2,603	6,793	207	909	1,172	161
Dec	10.9	10.5	0.4	3,873	198	2,288	2,482	6,652	194	924	1,292	155
Total	31.3	30.1	1.2	10,421	501	7,333	7,873	19,425	540	2,682	3,770	500
1984 Oct p	11.2	10.7	0.5	4,059	205	2,568	2,644	6,785	76	2,185	1,165	193
Nov p	10.8	10.4	0.5	3,676	213	2,754	2,838	6,738	84	3,035	1,080	202
Dec p	11.3	10.8	0.5	3,009	225	3,011	3,131	8,256	120	3,234	1,274	162
Total	33.3	31.9	1.4	10,744	643	8,333	8,613	21,779	280	8,453	3,520	557
Per cent change	+6.4	+6.0	+16.7	+3.1	+28.3	+13.6	+9.4	+12.1	-48.1	(+)	-6.6	+11.4

1. Calendar Months. Indigenous is used in this table for convenience to include oil from the UK Continental Shelf as well as the amounts produced on land. 2. Crude oil plus condensates and petroleum gases derived at onshore treatment plants. 3. Includes process (partly refined) oils. 4. Includes condensate for distillation. 5. Mainly recycled products. 6. Arrivals less re-exports. 7. Foreign Trade recorded by the Petroleum Industry and may differ from figures published in Overseas Trade Statistics. 8. Mainly process oils but may include re-exports of crude oil. 9. International marine bunkers.

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

Thousand tonnes

	Through- put of crude and process oil	Refinery use		Total <sup>2</sup> output of petrol- eum pro- ducts	Gases		Naphtha (LDF)	Motor spirit	Kerosene		Gas/ diesel oil	Fuel oil	Lubri- cating oils	Bitumen
		Fuel	Losses/ (Gains)		Butane and propane	Other Petrol- eum			Aviation turbine fuel	Bur- ning <sup>3</sup> oil				
1980	86,341	6,265	849	79,227	1,366	92	3,541	16,609	5,198	2,034	22,153	23,700	1,250	1,928
1981	78,287	5,445	836	72,006	1,391	75	3,405	17,140	4,559	1,904	20,410	19,069	1,063	1,735
1982	77,130	5,549	834	70,747	1,400	75	3,492	19,134	4,457	1,851	20,581	15,808	990	1,862
1983	76,876	5,297	652	70,927	1,482	56	3,550	21,053	4,723	1,770	21,029	13,483	936	1,798
1984 p	79,116	5,350	579	73,187	1,578	78	3,206	22,237	5,352	2,066	21,547	13,071	1,108	1,795
Per cent change	+ 2.9	+ 1.0	- 11.2	+ 3.2	+ 6.5	+ 39.3	- 9.7	+ 5.6	+ 13.3	+ 16.7	+ 2.5	- 3.1	+ 18.4	- 0.2
1983 Oct	6,173	480	51	5,643	102	5	303	1,613	393	180	1,628	1,097	89	140
Nov	6,105	382	49	5,674	90	3	326	1,652	340	200	1,685	1,075	78	140
Dec	6,984	470	44	6,470	117	4	328	1,971	325	231	2,085	1,120	77	113
Total	19,262	1,331	144	17,787	308	12	957	5,237	1,058	611	5,398	3,292	244	394
1984 Oct	7,093	467	29	6,596	156	8	307	2,045	455	194	1,843	1,216	108	157
Nov	6,625	440	100	6,085	131	6	292	1,811	392	209	1,710	1,195	95	138
Dec p	6,863	462	69	6,332	121	7	308	1,855	417	237	1,822	1,251	108	99
Total	20,581	1,369	198	19,013	408	21	907	5,711	1,265	640	5,374	3,662	311	393
Per cent change	+ 6.8	+ 2.9	+ 37.5	+ 6.9	+ 32.5	+ 75.0	- 5.2	+ 9.1	+ 19.6	+ 4.7	- 0.4	+ 11.2	+ 27.5	- 0.3

1. Calendar Months. 2. Including output of products not shown separately, namely aviation spirit, wide-cut gasoline, industrial and white spirits, petroleum wax and miscellaneous products. 3. Including vaporising oil.

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

Thousand tonnes

	Total <sup>2 3</sup>	Butane <sup>4</sup> and propane	Naphtha <sup>5</sup> (LDF)	Motor spirit	Kerosene				Gas/diesel oil		Fuel oil	Lubri- cating oils	Bitumen
					Aviation turbine fuel	Burning oil			Derv fuel	Other			
						Premier	Standard						
							Domestic	Other <sup>6</sup>					
1980	71,177	1,287	3,277	19,145	4,685	348	1,356	399	5,854	11,771	19,157	896	1,826
1981	66,256	1,209	3,656	18,718	4,495	258	1,230	417	5,549	11,554	15,656	837	1,666
1982	67,246	1,449	3,412	19,247	4,474	199	1,142	404	5,731	11,023	16,191	827	1,956
1983	64,464	1,778	3,570	19,566	4,566	156	1,121	386	6,183	10,432	12,524	818	1,987
1984 p	81,273	2,010	3,337	20,227	4,827	123	1,177	412	6,742	10,501	27,642	821	1,900
Per cent change	+ 26.1	+ 13.0	- 6.5	+ 3.4	+ 5.7	- 21.2	+ 5.0	+ 6.7	+ 9.0	+ 0.7	(+)	+ 0.4	- 4.4
1983 Oct	5,472	158	284	1,630	388	11	108	34	554	847	1,111	67	163
Nov	5,480	191	161	1,574	331	18	123	39	567	1,008	1,135	62	161
Dec	5,545	185	270	1,686	327	19	136	42	499	968	1,125	56	106
Total	16,497	535	715	4,890	1,047	49	367	115	1,620	2,823	3,371	185	429
1984 Oct p	7,770	139	302	1,777	438	13	114	37	627	987	2,939	76	174
Nov p	8,143	156	277	1,709	339	9	116	40	632	987	3,515	73	156
Dec p	7,857	132	253	1,652	326	12	128	48	529	933	3,591	53	92
Total	23,769	427	832	5,138	1,103	35	358	125	1,789	2,907	10,045	202	422
Per cent change	+ 44.1	- 20.2	+ 16.4	+ 5.1	+ 5.3	- 28.6	- 2.5	+ 8.7	+ 10.4	+ 3.0	(+)	+ 9.2	- 1.6

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



TABLE 14. Deliveries of petroleum products for inland consumption: energy uses<sup>1 2</sup>

Thousand tonnes

	Total	Power <sup>3</sup> stations	Gas works	Iron and steel industry	Other industries	Transport <sup>4</sup>	Domestic	Other <sup>5</sup>
1979	75,023	11,188	366	2,853	17,611	31,588	3,195	8,222
1980	64,176	6,516	310	1,588	14,517	31,738	2,553	6,954
1981	58,707	4,863	252	1,381	12,624	30,622	2,301	6,664
1982	59,643	6,873	213	1,224	11,600	31,315	2,146	6,272
1983	56,446	4,647	159	1,046	10,291	32,249	2,044	6,011
Per cent change	-5.4	-32.4	-25.4	-14.5	-11.3	+3.0	-4.8	-4.2
1983 Jan-Nov	51,470	4,234	145	958	9,336	29,575	1,814	5,409
1984 Jan-Nov p	65,817	17,882	143	809	8,665	31,140	1,744	5,434
Per cent change	+27.9	(+)	-1.4	-15.6	-7.2	+5.3	-3.9	+0.5
1983 Sep	4,638	441	14	93	727	2,818	173	372
Oct	4,808	531	13	79	824	2,734	182	447
Nov	4,949	369	12	92	1,013	2,656	213	594
Total	14,396	1,341	39	264	2,564	8,208	568	1,412
1984 Sept p	6,390	2,212	10	63	706	2,847	162	391
Oct p	7,027	2,358	12	68	863	3,023	187	516
Nov p	7,457	2,905	13	69	877	2,854	191	546
Total	20,874	7,476	36	199	2,446	8,724	539	1,453
Per cent change	+45.0	(+)	-7.7	-24.6	-4.6	+6.3	-5.1	+2.9

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<sup>1</sup>

	Million tonnes	Estimated days supply	Power stations <sup>2</sup> Million tonnes
1983 Oct	16.8	91	1.41
Nov	15.9	85	1.33
Dec	15.9	82	1.35
1984 Oct p	15.6	58	1.15
Nov p	15.5	60	1.18
Dec p	14.9	59	1.35

1. Stocks of petroleum products plus the product equivalent of crude and process oils held at refineries and terminals. Stocks in the wholesale distribution system and those held abroad for U.K. use under approved bilateral agreements are also included. Latest three months are provisional and days supply is calculated on forecast deliveries for the ensuing months. Figures for earlier period calculated on actual deliveries. 2. Fuel oil held at main oil burning stations in Great Britain.

## APPROXIMATE CONVERSION FACTORS

(last digit rounded to nought or five)

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

From To	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 <sup>1</sup>	0.500 <sup>2</sup>
Million tonnes oil equivalent	0.60	1	0.00235	0.0800 <sup>1</sup>	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	2.00 <sup>3</sup>	3.60 <sup>3</sup>	0.00880 <sup>3</sup>	...	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 U.K. Energy Statistics 1984* gives more detailed factors.

## SUPPLEMENTARY DATA

Typical retail prices of motor spirit and derv<sup>1</sup>

pence per gallon

	Motor Spirit		Derv		Motor Spirit		Derv
	2 Star	4 Star			2 Star	4 Star	
1973 January	34	35	34	1982 April	158	162	163
1974 January <sup>2</sup>	40.5	42	41.5	July	165	169	162
1975 January	71	73	56	October	171	174	166
1976 January	75	77	62	1983 January	163	167	171
1977 January	78	80	78	April	175	179	171
1978 January	74	76	84	July	180	184	169
1979 January	78	80	84	October	179	183	168
1980 January	118	120	126	1984 January	179	183	167
1981 January	130	132	140	April	179	183	173
1982 January	156	159	159	July	179	184	173
				October	186	189	183
				1985 January p	185	189	183

1. The approximate estimates are generally representative of prices paid at the pump on or about the 15th of the month. Estimates since 1977 are based on information provided by oil companies. 2. Maximum retail prices imposed by Order during the period 15th December 1973 to 20th December 1974.