

# DEPARTMENT OF ENERGY

# ENERGY TRENDS

## A Statistical Bulletin

FEBRUARY 1986



### Total Energy

Provisional figures for 1985 as a whole show that total inland energy consumption on a primary fuel input basis was 326.1 million tonnes of coal or coal equivalent (mtce), 13.9 million tonnes, or 4.5 per cent more than in 1984 (3.0 per cent more after correction for temperature). As the statistics of coal and oil for final consumption relate mainly to deliveries comparisons between 1984 and 1985 are affected by the unusual patterns of supply and stock change experienced during the coal dispute. Compared with 1983 total inland consumption in 1985 was 4.2 per cent higher (2.6 per cent more after temperature correction). Consumption of coal in 1985 was 105.3 million tonnes, 33.3 per cent more than in 1984, but 5.6 per cent less than in 1983. Consumption of petroleum was 14.9 per cent lower than in 1984 but 8.5 per cent higher than in 1983. Consumption of natural gas rose by 6.5 per cent and nuclear and hydro electricity by 13.7 per cent and 3.9 per cent respectively.

### Fuel Price Indices

#### Domestic Sector

Between 1984 and 1985 the current price indices for fuel and light and all fuels rose by 4 per cent and 5 per cent respectively. The index for petrol and oil rose by 6 per cent. The index for coal and coke rose by 6 per cent and that for gas by 4 per cent. The indices for electricity and heating oils rose by 3 per cent and 9 per cent respectively. The Retail Price Index (excluding fuels) rose by 6 per cent. Thus in deflated terms the index for all fuels fell by one per cent and that for fuel and light by two per cent. The deflated index for petrol and oil was unchanged. The deflated indices for gas and electricity fell by two per cent and 3 per cent respectively. The index for coal and coke was unchanged, whilst that for heating oils rose by two per cent.

#### Industrial Sector

The current price index for all fuels fell by two per cent between the third quarters of 1984 and 1985. The index for coal fell by two per cent and that for heavy fuel oil fell by 16 per cent. The index for gas rose by 7 per cent. The electricity index rose by 6 per cent (both actual and seasonally adjusted).

The Producer Price Index of materials fell by two per cent between the third quarters of 1984 and 1985. Hence the deflated price index for all fuels was unchanged. The deflated price index for heavy fuel oil fell by 14 per cent, whilst that for coal was unchanged. The deflated indices for gas and electricity (both actual and seasonally adjusted) increased by 9 per cent.

### Coal

Provisional figures for 1985 show that, because of the dispute in the coal mining industry during 1984 and part of 1985, total coal production at 94.0 million tonnes was 83.8 per cent more than in 1984 but was 21.1 per cent less than in 1983. Deep-mined output in 1985 was 75.2 million tonnes, with opencast production at 15.6 million tonnes..

Total use of home produced and imported coal in 1985, at 105.3 million tonnes, was 36.2 per cent higher than in 1984 but 5.5 per cent less than in 1983. Consumption by power stations in 1985 was 38.4 per cent higher than in 1984, and consumption by coke ovens and other conversion industries increased by 34.2 per cent and 67.3 per cent respectively. Disposals by collieries and opencast sites to industry and to domestic and other final users were up by 24.0 per cent and 27.1 per cent respectively.

Total stocks of coal at the end of 1985 amounted to 35.0 million tonnes, a fall of 1.6 million tonnes during the month and also 1.6 million tonnes lower than at the end of 1984. Stocks at power

stations decreased by 0.9 million tonnes during the month of December, to 23.9 million tonnes, whilst stocks at collieries and opencast sites fell by 0.5 million tonnes, to 9.2 million tonnes.

### Gas

Provisional figures for 1985 show that 19,045 million therms of gas were sent out by the public supply system, 7.1 per cent more than in 1984. Indigenous supplies represented 74.1 per cent of the total, compared with 72.1 per cent in 1984.

### Electricity

Provisional figures for 1985 show that 258 terawatt hours of electricity were supplied by the public supply system, 4.8 per cent more than in 1984. Total fuel used, on a coal equivalent basis, was 4.6 per cent more, with coal use up by 38.4 per cent to 73.9 million tonnes, and use of petroleum down by 50.2 per cent, to 18.0 mtce. Use of nuclear electricity, at 20.3 mtce, was 14.4 per cent higher.

### Petroleum

Provisional figures for 1985 show that indigenous crude oil production at 122.4 million tonnes was one per cent higher than in 1984. Production of natural gas liquids was 6.3 per cent higher, at 5.1 million tonnes.

Total output of petroleum products in 1985 was 0.4 per cent lower than in 1984, with increased output of motor spirit, burning oil, gas/diesel oil and lubricating oils outweighed by lower output of petroleum gases, naphtha, aviation turbine fuel, fuel oil and bitumen.

Deliveries of petroleum products for inland consumption in 1985 were 14.2 per cent lower than in 1984, but excluding deliveries of fuel oil, which decreased by 41.3 per cent, deliveries of other products in total were unchanged. Increased deliveries of motor spirit, aviation turbine fuel, burning oil and derv fuel offset reduced deliveries of butane and propane, naphtha, gas/diesel (other than derv), lubricating oils and bitumen.

### 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 1986 are shown. They indicate a further fall from the April 1985 levels.

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HALL

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>						
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	312.2	79.0	135.2	76.5	19.48	2.08
1985	326.1	105.3	115.1	81.4	22.15	2.16
Per cent change	+4.5	+33.3	-14.9	+6.5	+13.7	+3.9
1984 Oct	23.6	4.9	11.6	5.5	1.45	0.14
Nov	26.2	5.2	12.4	6.8	1.58	0.22
Dec*	34.8	6.2	16.1	9.9	2.30	0.34
<b>Total</b>	<b>84.6</b>	<b>16.4</b>	<b>40.1</b>	<b>22.1</b>	<b>5.33</b>	<b>0.71</b>
1985 Oct	23.5	8.8	7.9	5.0	1.55	0.26
Nov	28.7	10.2	8.6	8.2	1.52	0.18
Dec* p	35.0	12.5	10.0	10.0	2.19	0.31
<b>Total</b>	<b>87.3</b>	<b>31.5</b>	<b>26.6</b>	<b>23.2</b>	<b>5.25</b>	<b>0.75</b>
Per cent change	+3.2	+92.7	-33.8	+5.1	-1.4	+5.7
<i>Seasonally adjusted and temperature corrected<sup>4</sup> (annual rates)<sup>5</sup></i>						
1984 Oct	316.1	63.1	153.4	77.9	19.72	2.05
Nov	312.6	62.6	149.8	78.5	19.69	2.05
Dec*	306.1	57.5	146.6	79.1	20.80	2.07
Average	311.6	61.1	149.9	78.5	20.07	2.06
1985 Oct	319.5	115.9	104.7	75.7	20.97	2.22
Nov p	313.2	111.3	99.6	81.7	19.43	2.17
Dec* p	315.9	116.4	95.6	81.6	20.01	2.16
Average	316.2	114.5	100.0	79.7	20.14	2.18
Per cent change	+1.5	+87.6	-33.3	+1.5	+0.3	+6.1

	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>						
186.6	69.6	65.2	42.4	8.10	1.30	
183.5	65.1	65.4	42.2	9.40	1.40	
184.0	65.6	62.4	44.0	10.65	1.39	
183.7	46.5	79.5	45.0	11.46	1.22	
191.8	61.9	67.7	47.9	13.03	1.27	
+4.5	+33.3	-14.9	+6.5	+13.7	+3.9	
13.9	2.9	6.8	3.2	0.85	0.08	
15.4	3.1	7.3	4.0	0.93	0.13	
20.5	3.6	9.5	5.8	1.35	0.20	
49.7	9.6	23.6	13.0	3.14	0.42	
13.8	5.2	4.7	2.9	0.91	0.15	
16.9	6.0	5.0	4.8	0.89	0.11	
20.6	7.4	5.9	5.9	1.29	0.18	
51.3	18.5	15.6	13.6	3.09	0.44	
+3.2	+92.7	-33.8	+5.1	-1.4	+5.7	

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. 5. For hydro electricity the estimated annual out-turn.

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

Million tonnes coal equivalent

Million tonnes oil equivalent

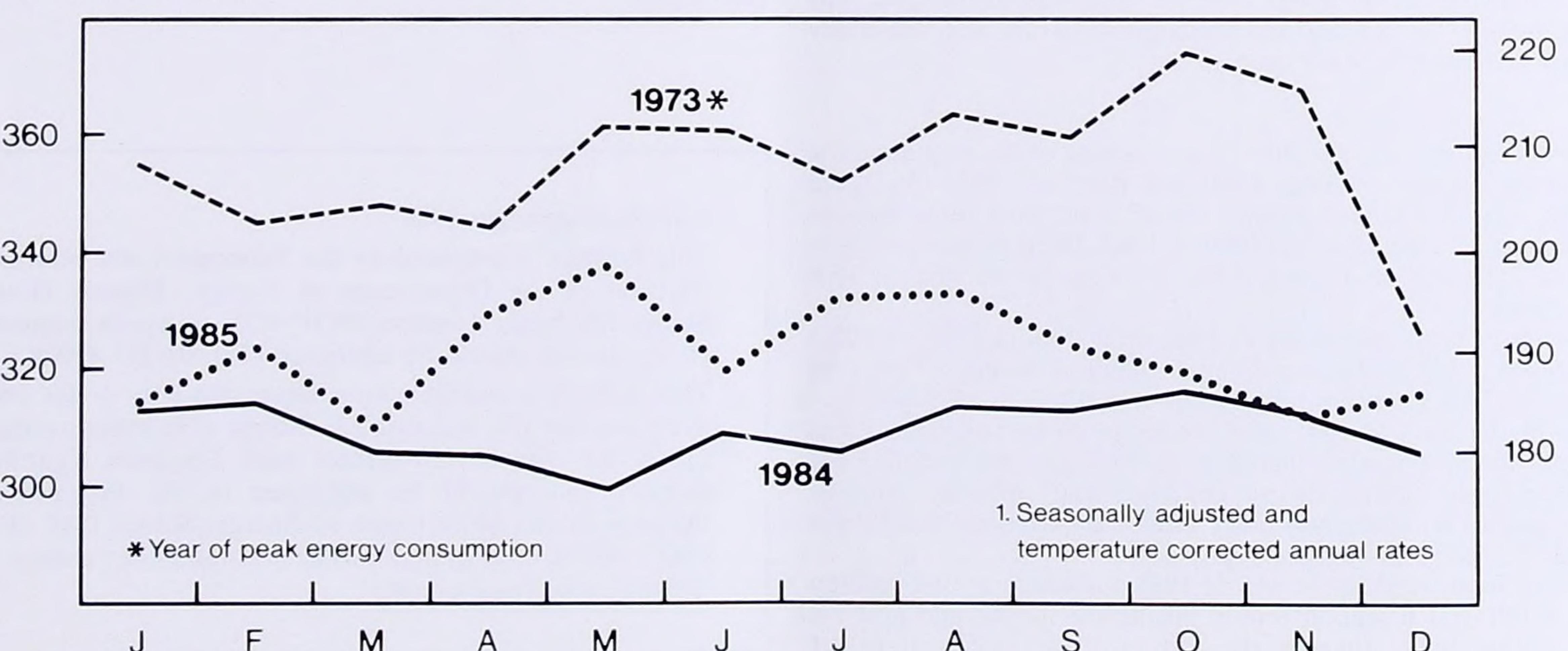


TABLE 2. Fuel price indices for the domestic and industrial sectors<sup>1</sup> 1980=100

	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
1980	100	100	100	100	100	100	100	100
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
1985	154	190	143	167	160	150	156	140
Per cent change 1984 to 1985	+6	+4	+3	+9	+4	+6	+5	+6
1984 4th quarter	152	183	140	159	155	145	151	134
1985 1st quarter	156	185	140	164	156	147	152	136
2nd quarter	150	191	142	173	159	155	157	140
3rd quarter	150	192	145	165	161	152	157	141
4th quarter	159	192	145	164	162	147	155	142
Per cent change 4th quarter 1984 to 4th quarter 1985	+5	+5	+4	+4	+4	+2	+3	+6
DOMESTIC SECTOR: Deflated <sup>3</sup> fuel price index numbers								
1970	78	143	78	54	88	88	88	
1980	100	100	100	100	100	100	100	
1982	105	131	110	113	115	106	111	
1983	107	141	110	122	119	109	115	
1984	110	139	105	117	116	107	112	
1985	110	136	102	119	114	108	111	
Per cent change 1984 to 1985	—	-2	-3	+2	-2	—	-1	
1984 4th quarter	114	137	104	118	116	108	113	
1985 1st quarter	115	136	103	121	115	108	112	
2nd quarter	107	136	101	123	114	111	112	
3rd quarter	106	136	103	117	114	108	111	
4th quarter	112	135	102	116	114	104	110	
Per cent change 4th quarter 1984 to 4th quarter 1985	-1	-1	-2	-2	-2	-4	-3	
	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>		
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		
1984	131	166	135	127	142	132		
Per cent change 1983 to 1984	+1	+19	+3	—	+8	+9		
				Actual	Seasonally adjusted			
1983 4th quarter	135	145	131	133	127	137	125	
1984 1st quarter	132	154	133	140	127	143	130	
2nd quarter	127	161	135	119	127	137	133	
3rd quarter	131	168	135	116	127	138	132	
4th quarter	134	183	139	134	128	151	136	
1985 1st quarter	129	201	143	141	128	161	140	
2nd quarter	133	172	144	123	132(r)	145	136	
3rd quarter	129	141	144	123	135(r)	136	129	
Per cent change 3rd quarter 1984 to 3rd quarter 1985	-2	-16	+7	+6	+6	-2	-2	
INDUSTRIAL SECTOR: Deflated <sup>7</sup> fuel price index numbers								
1970	61	36	87	83	66			
1980	100	100	100	100	100			
1981	109	113	115	109	111			
1982	111	111	114	112	112			
1983	107	115	108	105	109			
1984	99	125	102	96	107			
Per cent change 1983 to 1984	-8	+9	-5	-9	-2			
			Actual	Seasonally adjusted				
1983 4th quarter	108	116	104	107	101	109		
1984 1st quarter	102	119	103	108	99	110		
2nd quarter	96	121	102	89	97	103		
3rd quarter	100	127	102	88	95	105		
4th quarter	98	135	102	99	93	112		
1985 1st quarter	92	144	102	101	93	116		
2nd quarter	98	127	106	90	98(r)	107		
3rd quarter	100	109	112	96	103(r)	105		
Per cent change 3rd quarter 1984 to 3rd quarter 1985	—	-14	+9	+9	+9	—		

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
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	51,182	35,243	14,306	+ 6,601	8,894	2,293	11,083	64,972
1985 p	94,047	75,224	15,569	+ 10,203	12,635	2,432	8,741	14,035
Per cent change	+ 83.8	(+)	+ 8.8		+ 42.1	+ 6.1	- 21.1	- 78.4
1984 Oct	3,527	2,167	1,201	+ 992	1,038	46	13	6,039
Nov	3,637	2,318	1,113	+ 1,127	1,175	48	0	6,257
Dec*	3,853	2,509	1,241	+ 932	998	66	1,965	6,015
Total	11,017	6,994	3,555	+ 3,051	3,211	160	1,977	18,310
1985 Oct	9,584	7,820	1,402	+ 740	1,025	285	10	45
Nov	9,597	8,043	1,314	+ 1,066	1,300	234	0	48
Dec* p	10,069	8,427	1,204	+ 530	849	319	1,633	28
Total	29,249	24,290	3,920	+ 2,335	3,174	839	1,643	121
Per cent change	(+)	(+)	+ 10.3		- 1.2	(+)	- 16.9	- 99.3

1. Includes an estimate for slurry, etc., recovered and disposed of otherwise than by the National Coal Board. 2. As recorded in the Overseas Trade Statistics. 3. Shipments as recorded by the NCB; the figures may differ from those published in the 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 <sup>3</sup>	Domestic		Other <sup>6</sup>
			Collieries	Power stations <sup>1</sup>	Coke ovens		House coal <sup>3 4</sup>	Other <sup>5</sup>	
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	77,309	209	53,411	8,246	1,300	6,003	4,844	1,562	1,733
1985 p	105,298	332	73,940	11,063	2,176 <sup>7</sup>	7,441	6,533	2,105	1,708
Per cent change	+ 36.2	+ 58.6	+ 38.4	+ 34.2	+ 67.3	+ 24.0	+ 34.9	+ 34.8	- 1.4
1984 Oct	4,927	15	2,888	739		529	414	179	163
Nov	5,241	9	2,991	824		592	513	142	170
Dec*	6,190	17	3,769	1,028		516	500	162	199
Total	16,357	41	9,648	2,591		1,637	1,427	483	532
1985 Oct p	8,801	25	6,208	1,035 <sup>7</sup>		707	512	188	127
Nov p	10,216	29	7,583	1,083 <sup>7</sup>		713	493	152	163
Dec* p	12,501	48	9,283	1,273 <sup>7</sup>		848	685	168	197
Total	31,518	103	23,074	3,391 <sup>7</sup>		2,267	1,689	508	486
Per cent change	+ 92.7	(+)	(+)	+ 30.9		+ 38.5	+ 18.4	+ 5.2	- 8.6

1. Public supply and railway and transport power stations. 2. Gas works, low temperature carbonisation and patent fuel plants. 3. For 1984 onwards, includes estimated proportion of total imports. 4. Including miners' coal. 5. Anthracite, dry steam coal and imported naturally smokeless fuels.

6. Includes public administration and commerce. 7. 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
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	57,960	33,964	31,907	1,786	271	23,996	18,909	5,088
1984	36,548	15,794	14,402	1,199	193	20,753	10,969	9,784
1985 p	34,956	25,738	23,942	1,610	186	9,218	5,698	3,520
1984 Oct	38,516	16,881	15,484	1,202	195	21,635	12,313	9,322
Nov	37,845	16,759	15,323	1,241	195	21,085	11,565	9,520
Dec	36,548	15,794	14,402	1,199	193	20,753	10,969	9,784
1985 Oct	36,281	26,247	24,418	1,622	207	10,033	5,771	4,262
Nov	36,554	26,856	24,877	1,799	180	9,698	5,756	3,943
Dec p	34,956	25,738	23,942	1,610	186	9,218	5,698	3,520
Absolute change:								
in latest month	- 1,598	- 1,118	- 935	- 189	+ 6	- 480	- 58	- 423
on a year ago	- 1,592	+ 9,944	+ 9,540	+ 411	- 7	- 11,535	- 5,271	- 6,264

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				Absence percentage			Average output per manshift worked <sup>4</sup>		
					Total	Voluntary <sup>2</sup>	Involuntary <sup>3</sup>	Overall	Total	Production <sup>5</sup>
	Thousands		Number		Per cent			Tonnes		
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	22,218	10.6	3.4	7.2	2.51	3.14	10.58
1984	174	141	1,511	14,001	7.9	1.5	6.4	2.24	2.77	10.31
1985 p	148 <sup>6</sup>	121 <sup>6</sup>	3,649 (+)	29,261 (+)	10.9	3.1	7.8	2.49	3.12	11.36
Per cent change								+ 10.8	+ 12.6	+ 10.2
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*	174	141	140	593	5.4	1.1	4.4	2.16	2.78	11.39
1985 Oct	154	125	345	1,801	13.1	3.8	9.3	2.84	3.55	12.26
Nov	152	124	290	2,255	12.9	3.6	9.3	2.90	3.62	12.78
Dec* p	148	121	151	3,782	11.8	3.4	8.4	2.94	3.67	13.21

1. At the end of period. 2. Absence for which no reason has been given (ie excludes absence through industrial disputes). 3. Absence mainly for sickness or injury. 4. Saleable deep-mined revenue coal. 5. Output from production faces divided by production manshifts. 6. Average number during 1985 was as follows: Total 163 thousand (-8.7 per cent compared with 1984), Underground 132 thousand (-8.7 per cent compared with 1984).

## Gas

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

	Natural gas supply					Gas sent out	
	Total into system <sup>1</sup>	Source					
		Indigenous	Imported	Indigenous	Imported		
	Million therms		Percentage of total		Million therms		
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	17,884	12,893	4,992	72.1	27.9	17,788	
1985 p	19,317	14,314	5,003	74.1	25.9	19,045	
Per cent change	+ 8.0	+ 11.0	+ 0.2			+ 7.1	
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*	2,344	1,750	594	74.7	25.3	2,338	
Total	5,213	3,818	1,395	73.2	26.8	5,178	
1985 Oct	1,179	882	297	74.8	25.2	1,116	
Nov p	1,948	1,513	435	77.7	22.3	1,931	
Dec* p	2,360	1,756	604	74.4	25.6	2,373	
Total	5,488	4,151	1,337	75.7	24.3	5,420	
Per cent change	+ 5.3	+ 8.7	- 4.2			+ 4.7	

1. Figures differ from Gas sent out because of stock changes and the inclusion of small quantities of Substitute Natural Gas and Town Gas in Gas sent out. They include gas put to storage, but to avoid double counting, exclude gas withdrawn from storage to the system. The figures also differ from total consumption (expressed in coal or oil equivalent in Table 1) because of producers own use and losses and small quantities not entering the public supply system.

TABLE 8. Sales of gas by the public supply system

	Total	Power stations <sup>1</sup>	Iron and steel industry	Other industries	Million therms	
					Domestic	Other <sup>2</sup>
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
1984	17,302	178	387	5,477	8,931	2,329
Per cent change	+ 2.7	(+)	+ 13.2	+ 3.4	+ 0.7	+ 3.1
1983 3rd quarter	2,190	18	77	1,043	836	215
4th quarter	5,014	20	88	1,448	2,790	668
1984 1st quarter	6,417	21	101	1,626	3,719	950
2nd quarter	3,504	19	97	1,274	1,655	458
3rd quarter	2,336	45	85	1,081	902	222
4th quarter	5,045	92	103	1,496	2,655	699
1985 1st quarter	6,874	83	92	1,574	4,074	1,051
2nd quarter	3,796	57	98	1,350	1,781	511
3rd quarter p	2,462	29	85	1,113	972	263
Per cent change <sup>3</sup>	+ 5.4	- 35.6	-	+ 3.0	+ 7.8	+ 18.5

1. Public supply and transport power stations. 2. Public administration and commerce. 3. Per cent change on the corresponding period of the previous year.

# 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						
	<i>Million tonnes coal or coal equivalent</i>						<i>TWh</i>								
<b>United Kingdom</b>															
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	109.52	53.41	36.23	0.39	17.72	1.75	265.99	49.50	209.12	19.62	246.37	250.76			
1985 p	114.53	73.94	18.04	0.48	20.28	1.79	279.90	56.36	216.24	21.72	258.18	261.76			
<i>Per cent change</i>	+4.6	+38.4	-50.2	+23.1	+14.4	+2.3	+5.2	+13.9	+3.4	+10.7	+4.8	+4.4			
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*	11.88	3.77	5.56	0.12	2.12	0.31	28.85	5.89	21.65	2.13	26.72	27.16			
<b>Total</b>	<b>29.70</b>	<b>9.65</b>	<b>14.30</b>	<b>0.29</b>	<b>4.84</b>	<b>0.63</b>	<b>71.71</b>	<b>13.54</b>	<b>55.00</b>	<b>5.26</b>	<b>66.44</b>	<b>67.52</b>			
<b>1985 Oct</b>	<b>8.38</b>	<b>6.21</b>	<b>0.55</b>	<b>—</b>	<b>1.40</b>	<b>0.22</b>	<b>20.44</b>	<b>3.87</b>	<b>15.90</b>	<b>1.58</b>	<b>18.86</b>	<b>19.09</b>			
<b>Nov</b>	<b>9.92</b>	<b>7.58</b>	<b>0.84</b>	<b>—</b>	<b>1.36</b>	<b>0.14</b>	<b>24.29</b>	<b>3.81</b>	<b>19.96</b>	<b>1.79</b>	<b>22.49</b>	<b>22.76</b>			
<b>Dec* p</b>	<b>12.21</b>	<b>9.28</b>	<b>0.68</b>	<b>—</b>	<b>1.99</b>	<b>0.25</b>	<b>30.10</b>	<b>5.53</b>	<b>23.70</b>	<b>2.29</b>	<b>27.81</b>	<b>28.25</b>			
<b>Total</b>	<b>30.52</b>	<b>23.07</b>	<b>2.07</b>	<b>—</b>	<b>4.75</b>	<b>0.62</b>	<b>74.83</b>	<b>13.21</b>	<b>59.56</b>	<b>5.66</b>	<b>69.16</b>	<b>70.10</b>			
<i>Per cent change</i>	+2.8	(+)	-85.5	(-)	-1.9	-1.3	+4.4	-2.4	+8.3	+7.6	+4.1	+3.8			
<b>England and Wales</b>															
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	93.48	49.87	29.34	0.39	13.78	0.09	227.01	38.76	185.02	16.50	210.51	219.14			
1985 p	98.75	68.06	14.06	0.48	16.05	0.11	242.20	44.87	194.27	18.62	223.59	229.12			
<i>Per cent change</i>	+5.6	+36.5	-52.1	+23.1	+16.5	+30.2	+6.7	+15.8	+5.0	+12.8	+6.2	+4.6			
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*	10.11	3.69	4.55	0.12	1.74	0.02	24.46	4.86	18.96	1.81	22.64	23.56			
<b>Total</b>	<b>25.40</b>	<b>9.45</b>	<b>11.74</b>	<b>0.29</b>	<b>3.87</b>	<b>0.04</b>	<b>60.96</b>	<b>10.92</b>	<b>48.25</b>	<b>4.48</b>	<b>56.48</b>	<b>58.87</b>			
<b>1985 Oct</b>	<b>7.17</b>	<b>5.62</b>	<b>0.38</b>	<b>—</b>	<b>1.17</b>	<b>0.01</b>	<b>17.67</b>	<b>3.25</b>	<b>14.25</b>	<b>1.37</b>	<b>16.30</b>	<b>16.83</b>			
<b>Nov</b>	<b>8.55</b>	<b>6.80</b>	<b>0.63</b>	<b>—</b>	<b>1.12</b>	<b>0.01</b>	<b>21.15</b>	<b>3.16</b>	<b>17.78</b>	<b>1.58</b>	<b>19.57</b>	<b>19.90</b>			
<b>Dec* p</b>	<b>10.51</b>	<b>8.52</b>	<b>0.41</b>	<b>—</b>	<b>1.56</b>	<b>0.02</b>	<b>26.17</b>	<b>4.37</b>	<b>21.51</b>	<b>2.00</b>	<b>24.17</b>	<b>24.45</b>			
<b>Total</b>	<b>26.23</b>	<b>20.94</b>	<b>1.42</b>	<b>—</b>	<b>3.85</b>	<b>0.03</b>	<b>64.99</b>	<b>10.78</b>	<b>53.54</b>	<b>4.95</b>	<b>60.04</b>	<b>61.18</b>			
<i>Per cent change</i>	+3.3	(+)	-87.9	(-)	-0.5	-25.7	+6.6	-1.3	+11.0	+10.5	+6.3	+3.9			

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

	Total	Iron and steel industry	Other industries	Domestic	Other <sup>1</sup>	GWh
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	
1984	229,000	9,290	73,175	83,898	62,637	
<i>Per cent change</i>	+1.8	-0.8	+1.6	+1.1	+3.5	
1983 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	67,397	2,540	19,747	26,868	18,242	
2nd quarter	52,513	2,362	17,628	18,197	14,326	
3rd quarter	48,028	2,097	17,160	15,317	13,454	
4th quarter	61,062	2,291	18,640	23,516	16,615	
1985 1st quarter p	69,739	2,356	20,056	28,248	19,079	
2nd quarter p	55,304	2,379	18,663	19,013	15,249	
3rd quarter p	51,106	2,071	18,022	16,357	14,656	
<i>Per cent change<sup>2</sup></i>	+6.4	-1.2	+5.0	+6.8	+8.9	

1. Mainly commerce, public administration and agriculture. 2. Per cent change on the corresponding period of the previous year.

# Petroleum

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

	Indigenous Production <sup>2</sup>			Crude Oil <sup>4</sup>						Petroleum Products		
				Refinery Receipts			Foreign Trade <sup>8</sup> Shipments			Foreign Trade <sup>8</sup>		Arrivals
	Total	Crude Oil	NGLs <sup>3</sup>	Indigenous <sup>5</sup>	Other <sup>6</sup>	Net Foreign <sup>7</sup> Arrivals	Arrivals	Indigenous	Other <sup>9</sup>	Arrivals	Shipments	
	<i>Million tonnes</i>						<i>Thousand tonnes</i>					
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	125.9	121.2	4.8	45,304	2,196	30,950	32,272	77,271	1,363	23,082	14,234	2,248
1985 p	127.5	122.4	5.1	42,983	1,095	34,563	35,812	79,335	1,355	13,440	16,975	2,117
Per cent change	+ 1.3	+ 1.0	+ 6.3	- 5.1	- 50.1	+ 11.7	+ 11.0	+ 2.7	- 0.6	- 41.8	+ 19.3	- 5.8
1984 Oct	11.2	10.7	0.5	4,064	205	2,568	2,644	6,785	89	2,232	1,203	178
Nov	10.8	10.4	0.5	3,679	213	2,754	2,838	6,738	98	3,158	1,144	187
Dec	11.3	10.8	0.4	2,998	225	3,017	3,137	8,256	134	3,262	1,350	205
Total	33.3	31.9	1.4	10,741	643	8,339	8,619	21,779	321	8,652	3,697	569
1985 Oct	11.5	11.0	0.5	3,607	49	2,742	2,943	7,159	202	941	1,463	182
Nov	10.9	10.5	0.5	3,726	168	3,203	3,305	6,844	102	838	1,210	160
Dec p	10.6	10.1	0.5	3,638	179	2,855	2,989	6,335	134	847	1,298	147
Total	33.0	31.6	1.4	10,971	395	8,800	9,237	20,337	438	2,626	3,971	489
Per cent change	- 0.9	- 0.9	-	+ 2.1	- 38.6	+ 5.5	+ 7.2	- 6.6	+ 36.4	- 69.6	+ 7.4	- 14.1

1. Calendar Months. 2. Includes for convenience offshore and land production. 3. Condensates and petroleum gases derived at onshore treatment plants. 4. Includes process (partly refined) oils. 5. Includes condensate for distillation. 6. Mainly recycled products. 7. Arrivals less re-exports. 8. Foreign Trade recorded by the Petroleum Industry and may differ from figures published in the Overseas Trade Statistics. 9. Mainly process oils but may include re-exports of crude oil. 10. International marine bunkers.

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

	Through-put of crude and process oil	Refinery use		Total <sup>2</sup> output of petroleum products	Gases		Naphtha (LDF)	Motor spirit	Kerosene		Gas/diesel oil	Fuel oil	Lubri-cating oils	Bitumen
		Fuel	Losses/ (Gains)		Butane and propane	Other Petroleum			Aviation turbine fuel	Burn-ing oil				
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	79,117	5,350	579	73,187	1,578	78	3,206	22,236	5,352	2,066	21,547	13,071	1,108	1,795
1985 p	78,431	5,179	348	72,904	1,436	60	2,883	22,254	5,257	2,307	21,702	12,896	1,188	1,764
Per cent change	- 0.9	- 3.2	- 39.9	- 0.4	- 9.0	- 23.1	- 10.1	+ 0.1	- 1.8	+ 11.7	+ 0.7	- 1.3	+ 7.2	- 1.7
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	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
1985 Oct	6,320	420	36	5,864	106	4	292	1,728	439	181	1,815	960	128	146
Nov	6,312	426	20	5,866	112	6	209	1,827	358	247	1,856	907	86	156
Dec p	6,673	459	36	6,178	123	5	254	1,866	409	203	2,031	1,005	79	108
Total	19,305	1,305	92	17,908	342	15	754	5,421	1,206	631	5,701	2,872	292	410
Per cent change	- 6.2	- 4.7	- 53.5	- 5.8	- 16.2	- 28.6	- 16.9	- 5.1	- 4.7	- 1.4	+ 6.1	- 21.6	- 6.1	+ 4.3

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.

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

	Total <sup>2</sup> <sup>3</sup>	Butane <sup>4</sup> and propane	Naphtha <sup>5</sup> (LDF)	Motor spirit	Kerosene			Derv fuel	Other	Fuel oil	Lubri-cating oils	Bitumen					
					Aviation turbine fuel	Burning oil											
						Premier	Domestic	Other									
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	81,435	1,948	3,337	20,226	4,828	123											

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>
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
1984	73,259	20,913	157	866	9,364	33,823	2,139	5,996
Per cent change	+29.8	(+)	-1.3	-17.2	-9.0	+4.9	+4.6	-0.2
1984 Jan-Nov	65,903	17,910	143	798	8,539	31,140	1,923	5,450
1985 Jan-Nov p	57,171	9,683	134	694	7,906	31,733	1,837	5,183
Per cent change	-13.2	-45.9	-6.3	-13.0	-7.4	+1.9	-4.5	-4.9
1984 Sep	6,385	2,207	10	61	691	2,847	178	391
Oct	7,054	2,379	12	66	851	3,023	203	519
Nov	7,540	2,945	13	72	892	2,854	207	556
Total	20,978	7,532	36	199	2,434	8,724	588	1,465
1985 Sep	4,571	441	11	57	595	2,928	163	375
Oct	4,814	418	11	63	652	3,098	170	402
Nov p	4,918	400	14	55	768	2,922	222	536
Total	14,302	1,260	35	176	2,015	8,948	555	1,314
Per cent change	-31.8	-83.3	-2.8	-11.6	-17.2	+2.6	-5.6	-10.3

1. Calendar Months. 2. Excludes non-energy use. 3. Public supply, railway and transport power stations. 4. Includes coastal shipping and fishing.

5. Mainly public administration, commerce and agriculture.

TABLE 15. Stocks of petroleum at end of month<sup>1</sup>

	Oil Industry		Power stations <sup>3</sup> Million tonnes
	Million tonnes	Estimated days supply <sup>2</sup>	
1984 Oct	15.7	58	1.15
Nov	15.6	59	1.18
Dec	15.1	54	1.35
1985 Oct p	14.5	80	1.05
Nov p	15.2	83	0.92
Dec p	15.2	78	0.93

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. 2. Based on actual deliveries, with forecasts beyond the latest period. 3. 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	1.70	0.0040	0.140 <sup>1</sup>	0.475 <sup>2</sup>
Million tonnes oil equivalent	0.60	1	0.00240	0.080 <sup>1</sup>	0.260 <sup>2</sup>
Million therms	250	425	1	34.0	110
TWh electrical energy	7.50	12.5	0.030	1	..
TWh electricity generated	2.10 <sup>3</sup>	3.80 <sup>3</sup>	0.00910 <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 1985 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				
1974 January <sup>2</sup>	40.5	42	41.5				
1975 January	71	73	56	1983 January	163	167	171
1976 January	75	77	62	April	175	179	171
1977 January	78	80	78	July	180	184	169
1978 January	74	76	84	October	179	183	168
1979 January	78	80	84	1984 January	179	183	167
1980 January	118	120	126	April	179	183	173
1981 January	130	132	140	July	179	184	173
1982 January	156	159	159	October	186	189	183
				1985 January	185	189	185
				April	200	203	196
				July	195	199	191
				October	189	193	188
				1986 January p	187	190	187

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.