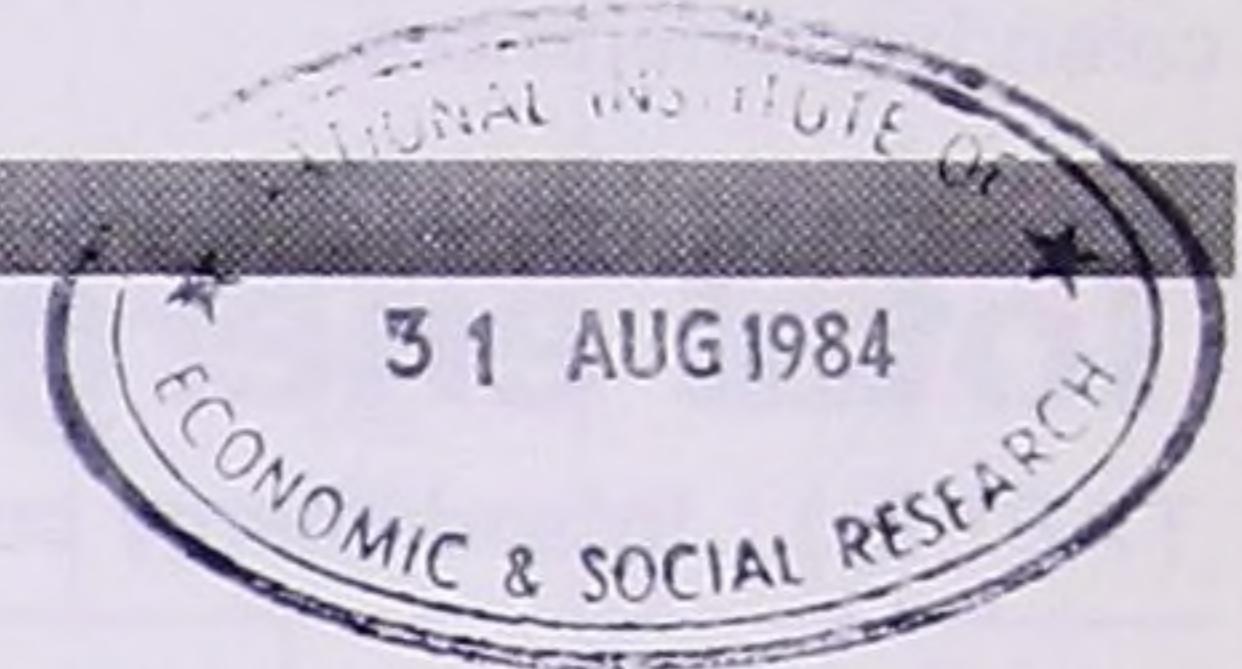


DEPARTMENT OF ENERGY

ENERGY TRENDS

A Statistical Bulletin

AUGUST 1984



Total Energy

Total energy consumption, on a primary fuel input basis, in the second quarter of 1984 was 4.5 per cent less than in the same period of 1983. Consumption of coal was 37.3 per cent lower, and natural gas was 1.6 per cent lower, whilst consumption of petroleum was 24.8 per cent higher. Consumption of nuclear electricity was 12 per cent higher but consumption of hydro electricity was 23.6 per cent lower.

On a seasonally adjusted and temperature corrected basis total consumption was 1.7 per cent lower. Consumption of coal was down by 35.5 per cent, whilst consumption of petroleum and natural gas rose by 25.7 per cent and 5.8 per cent respectively.

Fuel Price Indices

Domestic Sector

In current terms the price index for fuel, light, petrol and oil increased by 3 per cent between the second quarter of 1983 and that of 1984, as did the index for fuel and light only. The coal and coke price index rose by 9 per cent and that for gas by 4 per cent over the same period. The electricity price index rose by one per cent. There was no change in the price index for heating oils.

The Retail Prices Index (excluding fuels) rose by 6 per cent. Hence in deflated terms the price index for fuel, light, petrol and oil fell by 3 per cent between the second quarter of 1983 and that of 1984. The index for fuel and light only fell by two per cent over this period. The coal and coke price index rose by 3 per cent. The gas, electricity and heating oils indices fell by one, 4 and 5 per cent respectively.

Industrial Sector

In current terms the price index for all fuels increased by 3 per cent between the first quarter of 1983 and that of 1984. The coal price index rose by two per cent and that for heavy fuel oil by 12 per cent over the same period. There was no change in the price index for gas. The price index for electricity fell by two per cent.

The Producer Price Index of materials rose by 10 per cent. Hence in deflated terms the price index for all fuels fell by 6 per cent between the first quarter of 1983 and that of 1984. The coal price index fell by 7 per cent over this period. The heavy fuel oil index increased by two per cent. The gas and electricity price indices fell by 8 and 11 per cent respectively.

Coal

All the latest figures are provisional.

Total coal production in the three months April to June 1984 was 9.2 million tonnes. Production of deep-mined coal was 5.4 million tonnes, 20.4 million tonnes less than a year ago. Opencast production was 3.6 million tonnes.

Use of coal in this period, at 16.5 million tonnes, was 37.3 per cent lower than in the same period a year ago.

Gas

In the second quarter of 1984, 3,636 million therms of gas were supplied into the public supply system, 2.5 per cent less than in the same quarter of 1983. Indigenous supplies were 14.2 per cent lower, whilst imported supplies were 34.8 per cent higher.

Electricity

During the period April to June 1984 0.1 per cent less 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 2.1 per cent lower.

Petroleum

Production of crude oil in the three months April to June 1984 was 29.3 million tonnes. Production of natural gas liquids was 0.9 million tonnes.

Total output of petroleum products increased by 2.7 per cent, with increased output of motor spirit, aviation turbine fuel, burning oil, gas/diesel oil and lubricating oils. Deliveries of petroleum products for inland consumption in the period was 21.8 per cent higher than a year ago, with increased deliveries of butane and propane, motor spirit, aviation turbine fuel, domestic burning oil and derv fuel. Fuel oil deliveries increased substantially.

Supplementary Data

Typical Retail Prices of Motor Spirit and Derv

In this month's table typical prices for July 1984 are shown.

Enclosed with this edition of Energy Trends is an Energy Flow Chart for 1983. The Flow Chart is compiled from the detailed statistics contained in the Digest of United Kingdom Energy Statistics 1984, and a copy is included with each copy of the Digest. The Digest was published in July, and is available from HM Stationery Office, price £11.95 net. An order form which may be used to purchase copies of the Digest is also enclosed with this edition of Energy Trends.

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This Bulletin is available on subscription only — for 1984 the prices are UK and Eire £6; Europe £9; other overseas £13 by air mail or £9 surface mail. Enquiries regarding subscriptions should be addressed to the Information Division of the Department of Energy (Tel: 01-211 4351), who should also be notified of any change of address or of requirement.

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

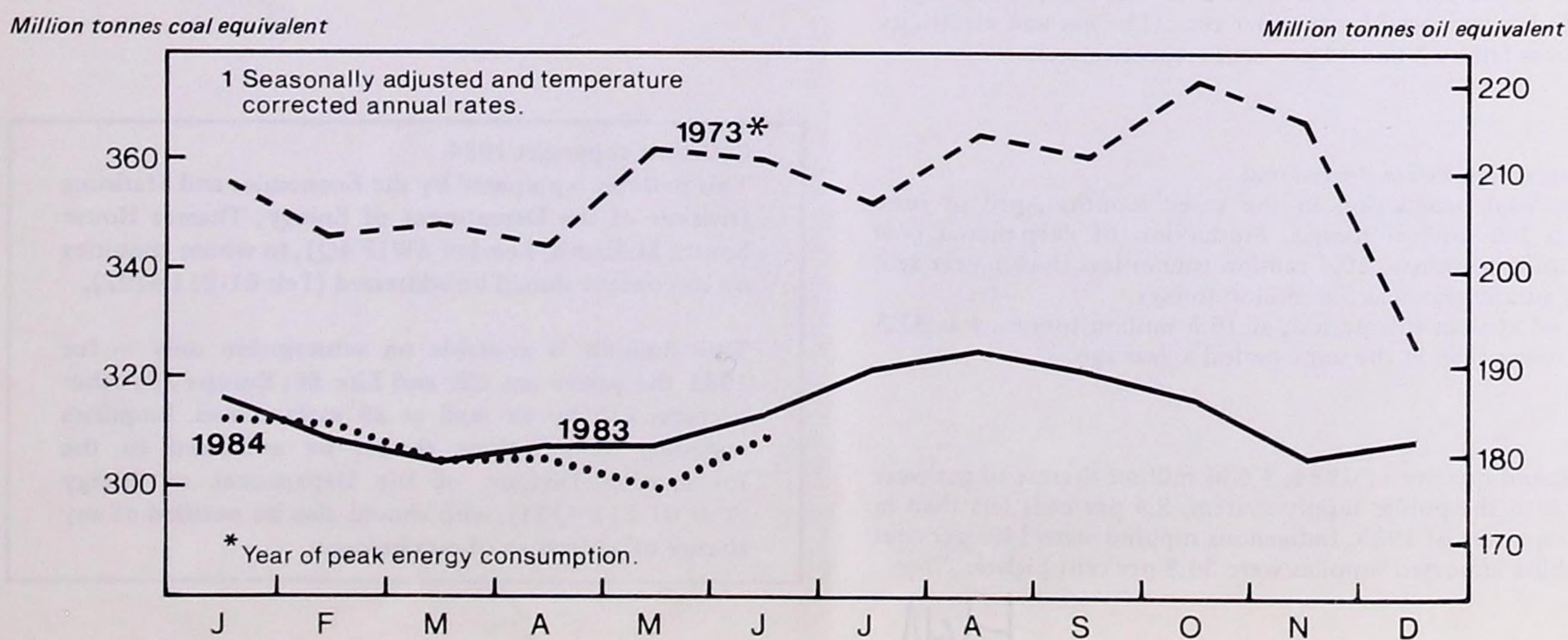
Total energy

TABLE 1. Inland energy consumption: primary fuel input basis

	Total	Coal ¹	Petroleum ²	Natural ³ gas	Nuclear electricity	Hydro electricity	Total	Coal ¹	Petroleum ²	Natural ³ gas	Nuclear electricity	Hydro electricity	
Million tonnes of coal or coal equivalent													
1979	355.7	129.6	139.0	71.1	13.8	2.2	209.2	76.2	81.8	41.8	8.1	1.3	
1980	328.7	120.8	121.4	71.1	13.4	2.0	193.3	71.1	71.4	41.8	7.8	1.2	
1981	317.2	118.2	110.9	72.1	13.7	2.3	186.5	69.6	65.2	42.4	8.1	1.3	
1982	311.9	110.7	111.1	71.7	16.0	2.4	183.5	65.1	65.4	42.2	9.4	1.4	
1983	312.9	111.5	106.1	74.8	18.10	2.37	184.1	65.6	62.5	44.0	10.65	1.39	
Per cent change	+0.3	+0.8	-4.5	+4.2	+13.3	+0.1	+0.3	+0.8	-4.5	+4.2	+13.3	+0.1	
1983 Jan-Jun	163.7	57.5	54.0	41.6	9.28	1.38	96.3	33.8	31.8	24.5	5.46	0.81	
1984 Jan-Jun p	163.0	48.1	60.6	43.3	9.81	1.19	95.9	28.3	35.7	25.5	5.77	0.70	
Per cent change	-0.4	-16.4	+12.3	+4.1	+5.8	-13.7	-0.4	-16.4	+12.3	+4.1	+5.8	-13.7	
1983 Apr	24.7	8.4	8.3	6.5	1.46	0.17	14.5	4.9	4.9	3.8	0.86	0.10	
May	22.6	8.4	7.7	5.1	1.23	0.16	13.3	4.9	4.5	3.0	0.72	0.09	
Jun*	25.2	9.5	9.6	4.3	1.56	0.15	14.8	5.6	5.7	2.6	0.92	0.09	
Total	72.5	26.3	25.6	15.9	4.25	0.48	42.7	15.5	15.1	9.3	2.50	0.28	
1984 Apr p	23.3	5.9	9.6	6.1	1.47	0.15	13.7	3.5	5.7	3.6	0.87	0.09	
May p	21.3	4.8	9.8	5.0	1.57	0.12	12.5	2.9	5.8	2.9	0.92	0.07	
Jun p*	24.6	5.7	12.5	4.5	1.72	0.10	14.5	3.4	7.4	2.7	1.01	0.06	
Total	69.2	16.5	32.0	15.6	4.76	0.37	40.7	9.7	18.8	9.2	2.80	0.22	
Per cent change	-4.5	-37.3	+24.8	-1.6	+12.0	-23.6	-4.5	-37.3	+24.8	-1.6	+12.0	-23.6	
Seasonally adjusted and temperature corrected ⁴ (annual rates)													
1983 Jan-Jun	310.2	110.4	105.9	73.1	18.07	2.74	182.5	65.0	62.3	43.0	10.63	1.61	
1984 Jan-Jun p	308.1	90.6	119.9	75.9	19.45	2.17	181.2	53.3	70.5	44.7	11.44	1.28	
Per cent change	-0.7	-18.0	+13.2	+3.9	+7.6	-20.7	-0.7	-18.0	+13.2	+3.9	+7.6	-20.7	
1983 Apr	308.9	106.3	106.4	74.1	19.53	2.49	181.7	62.5	62.6	43.6	11.49	1.47	
May	309.0	110.0	106.6	69.8	19.83	2.69	181.8	64.7	62.7	41.1	11.66	1.59	
Jun*	313.2	109.9	112.2	69.5	18.88	2.80	184.3	64.6	66.0	40.9	11.10	1.64	
Average	310.6	108.8	108.7	71.0	19.37	2.67	182.7	64.0	63.9	41.8	11.39	1.57	
1984 Apr p	305.8	80.1	126.9	77.0	19.56	2.20	179.9	47.1	74.7	45.3	11.50	1.29	
May p	299.9	63.4	137.9	72.2	24.40	2.00	176.4	37.3	81.1	42.5	14.35	1.18	
Jun p*	309.6	67.7	143.4	76.0	20.75	1.77	182.1	39.8	84.4	44.7	12.21	1.04	
Average	305.5	70.2	136.7	75.1	21.51	1.97	179.7	41.3	80.4	44.2	12.65	1.16	
Per cent change	-1.7	-35.5	+25.7	+5.8	+11.0	-26.1	-1.7	-35.3	+25.7	+5.8	+11.0	-26.1	

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)¹

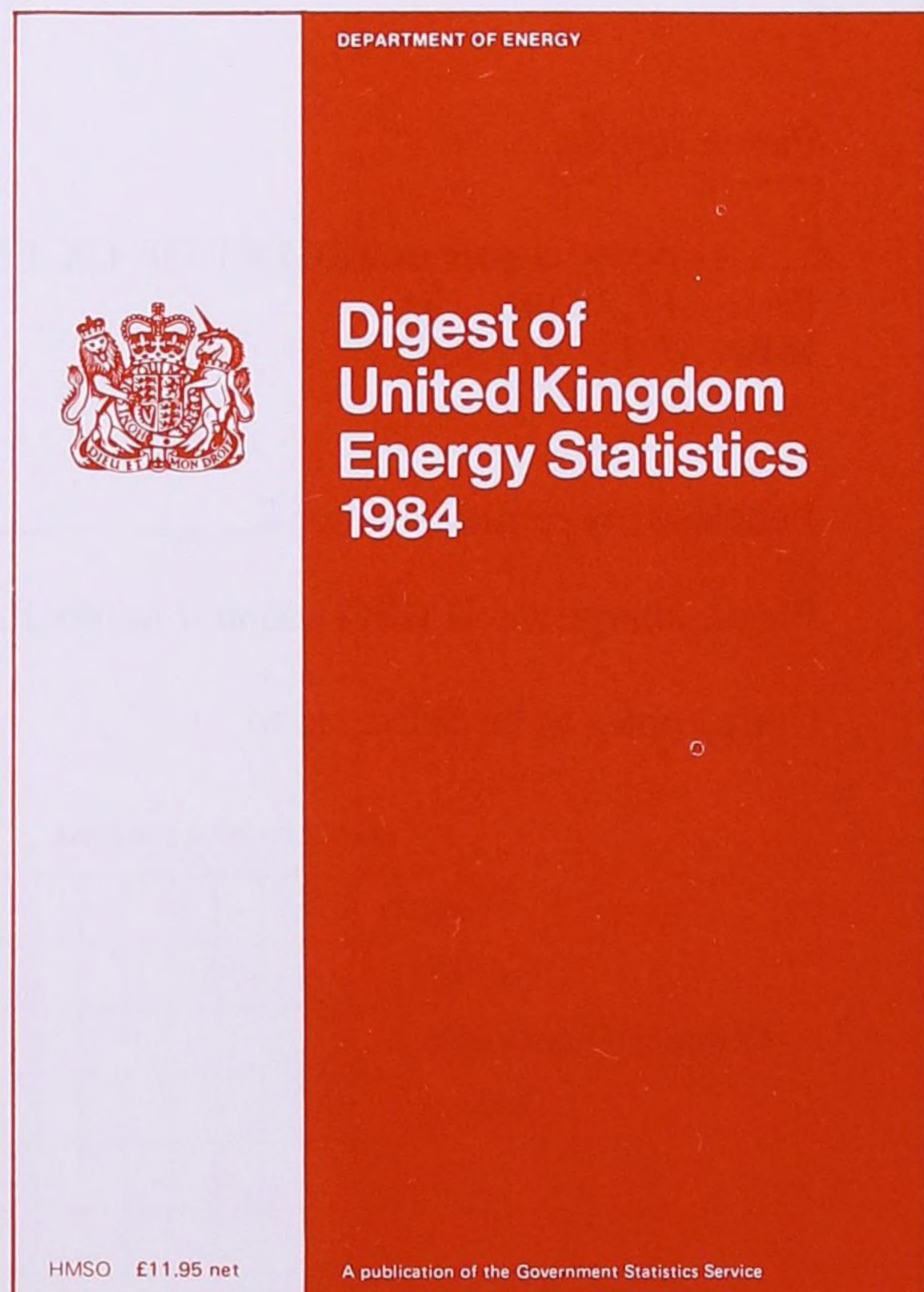


DEPARTMENT OF ENERGY

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
Energy Flow Chart 1983

United Kingdom

DEPARTMENT OF ENERGY

JUNE 1984

UK ENERGY FLOWS 1983 (THOUSAND MILLION THERMS)



Energy Flow Chart 1983

United Kingdom

The chart illustrates the flow of primary fuels from the point at which they become available from (on the left) home production or imports to their eventual final uses (on the right), either in their original state or after being converted into different kinds of energy by the secondary fuel industries.

All flows are measured in thousands of millions of therms and the widths of the bands on the chart are roughly proportional to the absolute sizes of the flows they represent. Stocks of coal and petroleum are represented by circles. (The circles are not related to the size of the stocks — and they do not show whether there has been a stock rise or stock fall.)

Primary supplies and primary fuels

The chart is similar to the previous issue relating to 1980. Primary consumption of petroleum is the sum of consumption of petroleum products at power stations and gas works, deliveries for other uses, refinery fuel and refinery losses. Petroleum products derived from crude oil which are used for non-fuel purposes (eg as a raw material for the manufacture of chemicals and plastics, as bitumen for road making etc) are not included as energy consumption.

As can be seen, most of our primary fuel supply is not finally consumed in the original state in which it is produced or imported. Crude petroleum is refined to produce petroleum products (eg petrol, fuel oil, gas/diesel oil, jet fuel etc). The largest proportion of coal flows to power stations where it is transformed into electricity.

Nuclear and hydro electricity are often referred to as primary electricity to distinguish them from that generated at conventional power stations burning fossil fuels, ie coal, petroleum or natural gas. There are many ways in which the output of nuclear and hydro electricity can be measured. In the chart and in all related statistics the electricity generated by these means is expressed in terms of the notional amount of fossil fuels that would have been needed to generate the same amount of electricity at contemporary conventional steam power stations.

Secondary fuels

The principal secondary fuels are petroleum products, electricity and coke (which in the chart includes other manufactured solid fuels). Secondary fuels are in the main required for specific purposes for which the use of primary fuels is inappropriate. For

many uses there is no practical alternative to electricity as a fuel and coke is an essential material for the iron and steel industry.

Losses

This large flow (in dotted grey) shows those losses that occur between primary supplies and deliveries to final users. Each fuel industry consumes energy in the course of its operations and some is lost during its subsequent distribution. Electricity generation in particular involves large losses in converting primary fuels to electricity. The chart does not show the further losses of energy which occur after energy is supplied to final consumers which result principally from the inefficiencies in the multitude of energy using appliances, eg domestic fires and boilers, cars, lorries, aircraft, central heating plant etc. It is estimated that these latter losses could in total amount to almost half of the energy supplied to final consumers.

Final uses

This section of the chart illustrates how energy consumption is distributed between the main final consuming sectors and how the different kinds of primary and secondary fuels are shared between the sectors. The figures for coal and petroleum are deliveries as actual consumption data is not available.

Statistics

The chart has been prepared by the Economics and Statistics Division of the Department of Energy and is based on statistics taken from the "Digest of United Kingdom Energy Statistics 1984". (Table 6) 'Energy balance for the United Kingdom'. The flow chart is a simplification of these figures and some of the terms used in the chart are not used in the Table. Table 2 of "Energy Trends" (Supply and Use of Fuels) is an abbreviated version of the energy balance table. Due to rounding the sum of constituent items may not equal totals.

The "Digest of United Kingdom Energy Statistics 1984" is prepared by the Economics and Statistics Division of the Department of Energy and published by Her Majesty's Stationery Office.

"Energy Trends", a Statistical Bulletin, which is also prepared by the Economics and Statistics Division of the Department of Energy, is published monthly, and is available on annual subscription. Details about subscriptions may be obtained from Information Division, Room 1397, Department of Energy, Thames House South, Millbank, London SW1P 4QJ.

TABLE 2. Fuel price indices for the domestic and industrial sectors¹ 1980 = 100

	Coal and Coke	Gas	Electricity	Heating Oils ²	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
Per cent change 1982 to 1983	+6	+12	+4	+13	+7	+7	+8	+4
1983 2nd quarter	130	176	137	150	148	136	143	124
3rd quarter	132	176	137	156	148	140	145	126
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
Per cent change 2nd quarter 1983 to 2nd quarter 1984	+9	+4	+1	—	+3	+3	+3	+6
DOMESTIC SECTOR: Deflated³ 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	
Per cent change 1982 to 1983	+2	+8	—	+9	+3	+3	+3	
1983 2nd quarter	104	141	110	121	119	109	115	
3rd quarter	105	140	109	123	118	111	115	
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	
Per cent change 2nd quarter 1983 to 2nd quarter 1984	+3	-1	-4	-5	-2	-2	-3	
	Coal ⁴	Heavy Fuel Oil ⁴	Gas ⁵	Electricity ⁵	Total Fuel	Producer Price Index of Materials		
INDUSTRIAL SECTOR: Current fuel price index numbers								
1970	18	10	26	24	19	29 ⁶		
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		
1982 2nd quarter	125	122	129	117	121	114		
3rd quarter	126	124	129	117	123	112		
4th quarter	129	132	130	137	134	114		
1983 1st quarter	130	137	133	144	138	118		
2nd quarter	128	136	132	117	127	120		
3rd quarter	129	138	129	116	127	121		
4th quarter	135	145	131	133	137	125		
1984 1st quarter	132	154	133	140	143	130		
Per cent change 1st quarter 1983 to 1st quarter 1984	+2	+12	—	-2	+3	+10		
INDUSTRIAL SECTOR: Deflated⁷ 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			
1982 2nd quarter	110	107	113	103	107			
3rd quarter	112	111	115	104	109			
4th quarter	113	116	115	121	117			
1983 1st quarter	110	116	112	121	117			
2nd quarter	107	113	110	97	106			
3rd quarter	106	114	107	96	105			
4th quarter	108	116	104	107	109			
1984 1st quarter	102	119	103	108	110			
Per cent change 1st quarter 1983 to 1st quarter 1984	-7	+2	-8	-11	-6			

1. Index numbers shown represent the average for the period specified. 2. Standard grade burning oil and premium kerosene.

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.

Coal

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

Thousand tonnes

	Production			Net imports	Imports ²	Shipments ³	Tonnage lost (deep-mined) ⁴	
	Total ¹	Deep-mined	Opencast				Recognised holidays and rest days	Disputes
1979	122,369	107,775	12,862	+2,000	4,375	2,175	12,385	888
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	-2,201	4,360	6,561	12,021	4,499
Per cent change	-4.4	-4.2	-3.7		+7.3	-11.9	-3.1	+29.7
1983 Jan-Jun	64,491	55,818	7,180	-1,291	2,039	3,330	3,846	844
1984 Jan-Jun p	30,858	22,898	7,149	+1,311	3,364	2,053	3,695	30,142
Per cent change	-52.2	-59.0	-0.4		+65.0	-38.3	-3.9	(+)
1983 Apr	9,567	8,477	932	-120	436	556	773	52
May	9,812	8,416	1,118	-212	400	612	483	102
Jun*	10,554	8,843	1,445	+141	665	524	2,114	35
Total	29,933	25,736	3,495	-191	1,501	1,692	3,370	190
1984 Apr p	2,767	1,682	993	+471	589	118	834	6,061
May p	2,942	1,721	1,180	+842	876	34	413	6,367
Jun p*	3,481	1,978	1,465	+692	697	5	1,953	6,771
Total	9,191	5,381	3,639	+2,004	2,161	157	3,199	19,199
Per cent change	-69.3	-79.1	+4.1		+44.0	-90.7	-5.1	(+)

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 ¹	Fuel producers (consumption)				Final users (disposals by collieries and opencast sites)			
		Collieries	Secondary			Industry	Domestic		Other ⁶
			Power stations ²	Coke ovens	Other ³ conversion industries		House coal ⁴	Other ⁵	
1979	129,378	834	88,790	15,081	2,883	9,232	8,922	1,585	2,051
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
Per cent change	+0.4	-9.1	+1.7	+0.4	-9.1	+1.0	-7.5	-5.5	-5.8
1983 Jan-Jun	57,499	282	42,134	6,157		3,558	3,433	767	998
1984 Jan-Jun p	48,078	148	35,837	4,761 ⁷		2,802	1,981	697	907
Per cent change	-16.4	-47.6	-14.9	-22.6		-21.3	-42.3	-9.1	-9.1
1983 Apr	8,370	39	6,147	950		548	471	86	130
May	8,389	36	5,836	1,035		508	670	147	123
Jun*	9,528	30	6,513	1,316		608	723	199	106
Total	26,287	104	18,496	3,301		1,664	1,864	432	359
1984 Apr p	5,916	12	4,363	648 ⁷		326	218	88	148
May p	4,847	11	3,191	564 ⁷		442	214	114	119
Jun p*	5,729	7	3,819	692 ⁷		484	228	112	120
Total	16,492	29	11,373	1,905 ⁷		1,252	659	314	387
Per cent change	-37.3	-72.1	-38.5	-42.3		-24.8	-64.6	-27.3	+7.8

1. Short term data includes coal for which no reliable allocation by user is available. 2. Public supply and railway and transport power stations. 3. Gas works, low temperature carbonisation and patent fuel plants. 4. Including miners' coal. 5. Anthracite, dry steam coal and imported naturally smokeless fuels. 6. Mainly public administration and commerce. 7. Partly estimated.

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

Thousand tonnes

	Total	Distributed				Undistributed		
		Total distributed stocks	Power stations		Coke ovens	Total undistributed stocks	Collieries	Opencast sites
1979	27,908	18,339	16,258	1,854	227	9,569	7,803	1,766
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	57,960	33,964	31,907	1,786	271	23,996	18,909	5,088
1983 Apr	54,496	28,890	27,103	1,669	118	25,606	20,604	5,002
May	55,557	30,153	28,403	1,620	130	25,404	20,372	5,032
Jun	56,853	31,947	30,046	1,710	190	24,906	19,996	4,910
1984 Apr p	43,151	21,278	19,937	1,165	176	21,873	16,401	5,472
May p	41,918	19,802	18,413	1,224	165	22,116	16,027	6,089
Jun p	40,586	18,209	16,707	1,317	185	22,378	15,381	6,997
Absolute change: in latest month	-1,332	-1,593	-1,706	+93	+20	+262	-646	+908
On a year ago	-16,257	-13,738	-13,339	-393	-5	-2,528	-4,615	+2,087

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			Average output per manshift ²		
	Total	Underground			Total	Voluntary	Involuntary	Overall	Total	Underground ³
	Thousands		Number		Per cent			Tonnes		
1979	233	184	26,551	25,407	15.7	4.5	11.2	2.25	2.86	..
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
Per cent change	-9.3	-8.8	-52.6	+36.7				+3.9	+3.4	+7.1
1983 Jan-Jun	202 ⁵	164 ⁵	1,472	10,607	10.8	3.5	7.3	2.56	3.22	10.77
1984 Jan-Jun p	181 ⁵	148 ⁵	522	9,472	9.0	2.2	6.8	2.22	2.74	9.79
Per cent change	-10.2	-9.9	-64.5	-10.7				-13.3	-14.8	-9.1
1983 Apr	201	163	163	1,497	11.0	3.8	7.2	2.55	3.19	10.76
May	200	162	139	1,497	9.0	2.6	6.5	2.57	3.25	10.92
Jun*	196	160	240	3,449	9.1	2.7	6.4	2.44	3.09	10.35
1984 Apr p	180	147	26	1,257	7.4	1.1	6.3	2.08	2.57	9.79
May p	179	146	3	1,336	6.5	0.8	5.7	2.18	2.71	10.43
Jun p*	177	144	64	1,269	5.7	0.7	5.0	2.18	2.69	10.61

1. At the end of period. 2. Excluding capital working and tip coal. 3. For information on this new series, see commentary in May 1979 issue.

4. Later figures are a new series. For further explanation and definition, see commentary on first page of May 1980 issue. 5. Average number during the period.

Gas

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

	Natural gas supply					Gas sent out ²	
	Total into system	Source ¹					
		Indigenous	Imported	Indigenous	Imported		
	Million therms		Percentage of total		Million therms		
1979	17,319	13,976	3,343	80.7	19.3	17,338	
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	
Per cent change	+3.2	+1.4	+9.0			+2.8	
1983 Jan-Jun	9,883	7,721	2,162	78.1	21.9	9,810	
1984 Jan-Jun p	10,247	7,447	2,800	72.7	27.3	10,212	
Per cent change	+3.7	-3.5	+29.5			+4.1	
1983 Apr	1,532	1,166	366	76.1	23.9	1,511	
May	1,182	909	273	76.9	23.1	1,178	
Jun*	1,013	755	258	74.5	25.5	996	
Total	3,728	2,830	897	75.9	24.1	3,685	
1984 Apr	1,441	1,006	434	69.9	30.1	1,430	
May	1,145	775	370	67.7	32.3	1,142	
Jun p*	1,050	646	404	61.5	38.5	1,033	
Total	3,636	2,427	1,209	66.8	33.2	3,606	
Per cent change	-2.5	-14.2	+34.8			-2.1	

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

	Total	Power stations ¹	Iron and steel industry	Other industries	Million therms	
					Domestic	Other ²
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 1st quarter	6,138	20	110	1,577	3,542	889
2nd quarter	3,244	18	95	1,255	1,450	426
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
Per cent change	+7.6	+5.0	+11.0	+7.1	+7.8	+7.6

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 ⁵ use	Electricity supplied	Electricity ⁶ available			
	Total ¹	Coal ²	Oil ^{2,3}	Natural gas	Nuclear electricity	Hydro electricity	Total ⁴	By steam plant							
								Nuclear	Other						
Million tonnes coal or coal equivalent															
United Kingdom															
1979	121.89	88.79	18.13	0.64	12.31	1.88	279.48	34.60	239.32	19.64	259.84	263.65			
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			
Per cent change	+0.9	+1.9	-24.0	—	+14.3	+0.2	+2.0	+14.5	-0.7	+8.4	+1.5	+1.9			
1983 Jan-Jun	56.05	42.13	4.22	—	8.48	1.20	135.31	23.49	108.51	9.65	125.66	127.98			
1984 Jan-Jun p	56.74	35.84	10.91	—	8.98	1.00	138.35	24.98	110.24	10.05	128.30	130.46			
Per cent change	+1.2	-14.9	(+)	—	+5.9	-16.4	+2.2	+6.3	+1.6	+4.1	+2.1	+1.9			
1983 Apr	8.28	6.15	0.68	—	1.32	0.14	20.18	3.66	16.04	1.52	18.66	19.04			
May	7.80	5.84	0.70	—	1.13	0.13	18.84	3.15	15.27	1.39	17.45	17.72			
Jun*	8.69	6.51	0.63	—	1.43	0.12	20.95	4.00	16.57	1.59	19.36	19.75			
Total	24.77	18.50	2.00	—	3.88	0.39	59.97	10.81	47.89	4.51	55.46	56.51			
1984 Apr	7.96	4.36	2.16	—	1.32	0.12	19.67	3.70	15.57	1.45	18.22	18.57			
May	7.51	3.19	2.76	—	1.46	0.09	18.67	4.06	14.27	1.36	17.31	17.57			
Jun p*	8.78	3.82	3.29	—	1.60	0.06	21.48	4.45	16.73	1.62	19.86	20.17			
Total	24.24	11.37	8.21	—	4.39	0.27	59.82	12.21	46.57	4.43	55.39	56.31			
Per cent change	-2.1	-38.5	(+)	—	+13.1	-30.0	-0.3	+13.0	-2.8	-1.8	-0.1	-0.4			
TWh															
England and Wales															
1979	105.39	79.81	14.12	0.64	10.55	0.13	242.12	29.67	211.54	16.55	225.57	228.30			
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			
Per cent change	+1.9	+4.6	-41.9	—	+14.3	-2.6	+2.6	+14.7	+0.3	+9.6	+2.1	+1.9			
1983 Jan-Jun	48.56	39.53	2.40	—	6.55	0.06	117.68	18.22	98.87	8.14	109.54	111.47			
1984 Jan-Jun p	48.23	33.03	8.35	—	6.80	0.04	118.08	19.04	98.28	8.38	109.70	113.85			
Per cent change	-0.7	-16.4	(+)	—	+3.8	-27.7	+0.3	+4.5	-0.6	+2.9	+0.1	+2.1			
1983 Apr	7.19	5.78	0.43	—	0.97	0.01	17.54	2.72	14.68	1.29	16.25	16.59			
May	6.76	5.42	0.47	—	0.88	0.01	16.42	2.45	13.87	1.19	15.23	15.49			
Jun*	7.57	6.05	0.34	—	1.18	—	18.34	3.29	14.95	1.38	16.96	17.24			
Total	21.53	17.24	1.24	—	3.02	0.02	52.30	8.45	43.50	3.86	48.44	49.32			
1984 Apr	6.72	3.92	1.84	—	0.97	—	16.68	2.73	13.86	1.19	15.49	16.17			
May	6.40	2.97	2.33	—	1.10	—	15.96	3.07	12.78	1.14	14.82	15.49			
Jun p*	7.43	3.46	2.72	—	1.24	—	18.24	3.46	14.67	1.34	16.90	17.71			
Total	20.55	10.35	6.90	—	3.30	—	50.88	9.27	41.31	3.66	47.22	49.36			
Per cent change	-4.6	-40.0	(+)	—	+9.3	-88.2	-2.7	+9.7	-5.0	-5.2	-2.5	+0.1			

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 ¹
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 1st quarter	65,262	2,829	19,248	26,545	16,640
2nd quarter	50,265	2,569	17,460	17,359	12,877
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
Per cent change	+5.0	+2.5	+4.1	+5.0	+6.4

1. Mainly commerce, public administration and agriculture.

Petroleum

TABLE 11. Indigenous production, refinery receipts, arrivals and shipments¹

	Indigenous Oil Production			Crude Oil ³						Petroleum Products					
				Refinery Receipts			Foreign Trade ⁷			Foreign Trade ⁷					
	Total ²	Crude Oil	NGLs	Indigenous ⁴	Other ⁵	Net Foreign ⁶ Arrivals	Arrivals	Shipments	Arrivals	Shipments	Bunkers ⁹				
	Million tonnes			Thousand tonnes											
1979	77.9	76.6	1.3	38,445	606	59,226	60,380	39,044	1,154	12,035	13,359	2,671			
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	44,820	2,366	29,163	30,324	67,397	1,161	9,907	14,674	2,019			
Per cent change	+11.3	+10.5	+41.4	+11.2	-25.2	-12.3	-10.2	+12.0	(+)	-20.9	+8.0	-21.8			
1983 Jan-Jun	54.4	52.4	2.0	22,429	1,385	13,929	14,307	31,010	378	5,011	6,956	991			
1984 Jan-Jun p	62.0	59.9	2.1	23,937	995	13,969	14,803	36,656	834	7,749	6,806	883			
Per cent change	+14.0	+14.3	+5.0	+6.7	-28.2	+0.3	+3.5	+18.2	(+)	(+)	-2.2	-10.9			
1983 Apr	8.9	8.6	0.3	3,861	219	2,133	2,186	5,570	53	760	1,179	120			
May	9.5	9.2	0.3	3,759	204	2,668	2,699	5,291	31	747	1,404	107			
Jun	8.4	8.1	0.3	3,359	67	2,236	2,321	4,877	85	655	1,137	113			
Total	26.8	25.9	0.9	10,979	490	7,037	7,206	15,738	169	2,162	3,720	340			
1984 Apr	10.2	9.9	0.3	4,870	232	2,233	2,454	5,328	221	1,167	1,133	124			
May	10.4	10.1	0.3	3,644	203	3,203	3,282	6,493	79	1,845	1,218	144			
Jun p	9.6	9.3	0.3	3,706	158	2,711	2,770	5,204	59	1,853	1,254	205			
Total	30.2	29.3	0.9	12,220	593	8,147	8,506	17,025	359	4,865	3,605	473			
Per cent change	+12.7	+13.1	—	+11.3	+21.0	+15.8	+18.0	+8.2	(+)	(+)	-3.1	+39.1			

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 products¹

	Through-put of crude and process oil	Refinery use		Total ² output of petro-lem products	Gases		Naphtha (LDF)	Motor spirit	Kerosene		Gas/diesel oil	Fuel oil	Lubri-cating oils	Bitumen
					Butane and propane	Other Petroleum			Aviation turbine fuel	Burning ³				
		Fuel	Losses/(Gains)											
1979	97,806	6,490	733	90,583	1,604	168	5,242	16,111	5,236	2,709	25,449	28,600	1,330	2,066
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
Per cent change	-0.3	-4.5	-21.8	+0.3	+5.9	-25.3	+1.7	+10.0	+6.0	-4.4	+2.2	-14.7	-5.5	-3.4
1983 Jan-Jun	38,659	2,713	302	35,645	823	26	1,812	10,370	2,249	875	10,587	7,080	456	849
1984 Jan-Jun p	38,609	2,663	239	35,742	728	36	1,684	10,670	2,527	988	11,064	6,111	511	875
Per cent change	-0.1	-1.8	-20.9	+0.3	-11.5	+38.5	-7.1	+2.9	+12.4	+12.9	+4.5	-13.7	+12.1	+3.1
1983 Apr	6,362	431	41	5,890	137	4	339	1,738	330	147	1,734	1,142	64	156
May	6,802	454	19	6,329	160	4	310	1,900	395	150	1,875	1,196	74	177
Jun	5,963	413	68	5,482	127	4	172	1,748	484	85	1,566	936	80	202
Total	19,127	1,298	128	17,701	424	12	821	5,386	1,209	382	5,175	3,274	218	535
1984 Apr	6,510	442	56	6,012	110	6	265	1,812	430	171	1,953	969	87	124
May	6,697	450	51	6,197	135	5	302	1,926	381	134	1,912	1,094	52	164
Jun p	6,406	439	34	5,967	140	8	123	1,949	506	112	1,697	1,040	82	209
Total	19,613	1,331	141	18,176	385	19	690	5,687	1,317	417	5,562	3,103	221	497
Per cent change	+2.5	+2.5	+10.2	+2.7	-9.2	+58.3	-16.0	+5.6	+8.9	+9.2	+7.5	-5.2	+1.4	-7.1

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

TABLE 13. Deliveries of petroleum products for inland consumption¹

	Total ^{2,3}	Butane ⁴ and propane	Naphtha ⁵ (LDF)	Motor spirit	Kerosene			Aviation turbine fuel	Gas/diesel oil		Fuel oil	
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TABLE 14. Deliveries of petroleum products for inland consumption: energy uses^{1 2}

Thousand tonnes

	Total	Power stations ³	Gas works	Iron and steel industry	Other industries	Transport ⁴	Domestic	Other ⁵
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	32,248	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-May	23,979	1,703	69	481	4,837	12,833	956	3,099
1984 Jan-May p	26,465	4,025	76	438	4,452	13,501	939	3,034
Per cent change	+10.4	(+)	+10.1	-8.9	-8.0	+5.2	-1.8	-2.1
1983 Mar	5,369	387	13	98	1,057	2,883	210	721
Apr	4,658	312	13	93	900	2,592	176	572
May	4,441	323	15	85	792	2,675	122	428
Total	14,468	1,022	41	276	2,749	8,150	508	1,721
1984 Mar	5,492	596	15	93	988	2,862	221	717
Apr	5,259	954	13	81	815	2,718	156	522
May p	5,997	1,715	12	83	710	2,928	120	429
Total	16,748	3,265	40	257	2,513	8,508	497	1,668
Per cent change	+15.8	(+)	-2.4	-6.9	-8.6	+4.4	-2.2	-3.1

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 month¹

	Million tonnes	Estimated days supply	Power stations ²
	Million tonnes	Million tonnes	
1983 Apr	15.8	92	1.13
May	15.9	93	1.01
Jun	15.6	90	1.07
1984 Apr p	16.0	72	0.78
May p	16.4	74	0.84
Jun p	16.2	78	1.14

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 equivalent	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 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 derv¹

pence per gallon

	Motor Spirit		Derv	Motor Spirit		Derv
	2 Star	4 Star		2 Star	4 Star	
1973 January	34	35	34	1981 October	164	167
1974 January ²	40.5	42	41.5	1982 January	156	159
1975 January	71	73	56	April	158	162
1976 January	75	77	62	July	165	169
1977 January	78	80	78	October	171	174
1978 January	74	76	84	1983 January	163	167
1979 January	78	79	84	April	175	179
1980 January	118	120	126	July	180	184
1981 January	130	132	140	October	179	183
				1984 January	179	183
				April	179	173
				July p	179	172

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.