# CEGB Statistical Yearbook 1980-81



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CEGB: Members and principal officers at 31 March 1981

Organization of the CEGB at 31 March 1981

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# OF THE ELECTRICITY SUPPLY INDUSTRY

ORGANIZATION

1 January 1958, established the Electricity Council and the Central Electricity Generating Board in place of the original Authority. This Act transferred responsibility for the generation and main transmission of electricity to the Central Electricity Generating Board, whose principal duty is to develop and maintain an efficient, co-ordinated and economical system of supply of electricity in bulk for all parts of England and Wales, and to provide bulk supplies to the Area Boards for them to distribute. The Board is also empowered to provide bulk supplies for the Scottish Boards and undertakings outside Great Britain. When considering development proposals, the Board has a duty to take into account any effect which these proposals may have on the natural beauty of the countryside or on features of special interest. The Board's present organization gives a high degree of

delegated authority to its five Regions (responsible for power station and transmission operation and maintenance in their particular geographical areas). The construction, design and

The Electricity Act, 1957, which came into effect on

development functions associated with power stations and transmission have been consolidated into two Divisions-the Generation Development and Construction Division and the Transmission and Technical Services Division. A Research Division has been established to take over the work of the Headquarters' Research Department. Each Region and Division is headed by a Director-General who is personally responsible for the operations of his organization. The Board's Headquarters' Departments continue to provide general services to the Board and to give specialized functional advice and expertise when required. Where it is uneconomic for Regions and Divisions to establish specialized services within their own organizations, for example in the field of legal work, common services are provided by Headquarters. Ultimate responsibility for all executive action throughout the organization is placed corporately on the Executive, which

Full-time Members.

Members of the Board and principal officers at Regions,
Divisions and Headquarters at 31 March 1981, are listed on
page 20. The Chairman and two other Members of the
Generating Board, together with the Chairmen of the Area
Boards, are Members of the Electricity Council which is the
central council for the industry in England and Wales for
consultation on and formulation of general policy and which
advises the Secretary of State for Energy on all matters
affecting the industry. The Council has special responsibility
for finance and labour relations.

consists of the Chairman, the Deputy Chairman and the

		1980-81 forecast or target	1980-81 actual	1979-80
Sales of electricity		target		
Total sales (to Area Electricity Boards and direct consumers) Sales to Area Electricity Boards only Average charge per kW h sold (total sales)	TW h* TW h pence	220·6 214·8 2·7866	209·240 203·721 2·6416	218·662 212·771 2·1387
Finance†				=
Total income Total expenditure on Revenue Account (excluding interest) Operating profit Interest Profit/(loss) after interest and MWCA** Capital expenditure on property, plant and equipment	£ million £ million £ million £ million £ million £ million	6,165·0 6,105·0 60·0 425·0 (365·0)	5,547·3 5,357·2 190·1 449·0 (281·3) 688·1	4,692·7 4,623·0 69·7 362·2 (287·5) 594·9
Net return on average net assets	per cent	0.4	1.2	0.5
Generation  Number of power stations  New power station plant brought into operation  Power station plant decommissioned  Declared net capability of power stations (end of year)  CEGB maximum system demand met  Capability available at time of maximum system  demand met  Plant availability at peak demand on working days (December,  January and February only)  Plant availability at peak demand on working days (all months)  Electricity supplied from CEGB power stations: total  Electricity supplied from CEGB nuclear power stations only  System thermal efficiency of fossil-fuel fired plant‡  Total works costs per kW h supplied	MW s.o. MW s.o. MW s.o. MW  MW  per cent per cent TW h TW h per cent pence		128 340 664 56,705 42,600 51,081 86·9 75·8 211·551 22·717 32·17 1·9289	132 1,209 304 57,029 44,225 48,931 83.8 73.0 221.651 25.339 31.67 1.6178
<b>Transmission</b> Length of line (double or single circuit) in service: total Length of line (double or single circuit) in service: 400 kV Length of line (double or single circuit) in service: 275 kV Number of 400 kV and 275 kV substations	km km km		7,734 5,110 2,140 204	7,742 5,089 2,141 202
Employees Total number at end of year Sales per employee Employees per MW of declared net capability (end of year)	million kW h		59,729 3·503 1·053	61,726 3·542 1·082

<sup>\*</sup> One TW h equals one thousand million kW h
† From 1980-81 the Board has adopted current cost accounting (CCA). To aid comparison the results for 1979-80 are restated on a CCA basis.
‡ i.e. coal-, gas-, and oil-fired steam stations, diesel and gas turbine plant

\*\* MWCA = monetary working capital adjustment

			Declared gross cap	ability	Declared		Average load  as percentage of  average	
Region	No. of stations	Type of station	Generators	Boilers	net capability	Electricity supplied	declared net capability	Thermal efficiency
			MW Gen.	kg/s	MW s.o.	GW h	per cent	per cent
South Eastern	24	Steam (coal, oil and gas-fired)	10,110.700	10,562 - 5	9,629	20,033	23.6	30-02
	2	Nuclear	1,191.938	112423921 21	1,075	2,716	28.8	25.77
	1	Diesel	8.000		8		_	73-15-6-15-6
	7	Gas turbine	1,246 · 266		1,242	15	0.1	15.55
		Hydro			-	-	70	
	35	Total	12,556 · 904	10,562 · 5	11,954	22,764	21.8	29.42
South Western	14	Steam (coal, oil and gas-fired)	10,462 · 430	9,944-0	9,823	27,940	32.8	31.83
	4	Nuclear	2,521.800		2,162	12,965	69-4	29 · 14
		'Diesel			_	_	_	-
	1	Gas turbine	435.872		430	8	-	12.14
	3	Hydro	3.348		3	12	45.6	-
	22	Total	13,423 · 450	9,944.0	12,418	40,925	38.0	30.91 ◆
	2000	I Market III		1000211115	(128-20/2022)		250 303	2000 7000
Midlands	23	Steam (coal, oil and gas-fired)	14,897.000	14,205.0	14,059	70,575	56.9	32.76
		Nuclear	-		-	_	-	20
	-	Diesel	700 000		_	-		15 57
	3	Gas turbine Hydro	722.000		717	_ 11	0.2	15 · 57
	502	No.	Sector Assistance and a	0.0000000000000000000000000000000000000	NAME OF THE PARTY	Salara de Caracina		
	26	Total	15,619 · 000	14,205 · 0	14,776	70,586	54 · 1	32.75
North Eastern	20	Steam (coal, oil and gas-fired)	11,545.000	10,853 · 2	10,931	53,454	55.6	32.62
		Nuclear			_	<u> </u>	_	-
		Diesel	_		_	4-2	_	_
	1	Gas turbine	336-000		330	6	0.1	19-19
	//.	Hydro			_	-		_
	21	Total	11,881.000	10,853 · 2	11,261	53,461	54.0	32-61
North Western	14	Steam (coal, oil and gas-fired)	4,575 • 650	4,757 · 0	4,301	16,721	42.5	31-80
	2	Nuclear	1,476-400		1,230	7,036	65.3	25.20
		Diesel	_		_		-	-
	3	Gas turbine	304 · 172		296	3	0.1	19.71
	5	Hydro	470-375		469 <b>O</b>	243 ▼	25 · 4	-
	24	Total	6,826-597	4,757.0	6,296	24,002	42.2	29-51 🗢
England and	72	Steam: Coal-fired	37,907.955	36,921 · 2	35,650	160,674	51.1	32 - 24
Wales	18	Oil-fired	9,152-500	9,298.5	8,827	11,711	15-1	32.42
	2	Coal and oil-fired (a)	840 · 325	786.0	740	2,341	33.5	30.65
	1	Coal/oil-fired (b)	2,000.000	1,788 · 0	1,920	8,741	52.0	32.53
·	2	Coal/gas-fired (c)	1,690.000	1,528-0	1,606	5,258	37.4	30.23
	95	Total steam	51,590 · 780	50,321 - 7	48,743	188,724	43.9	32·18 (e
	8	Magnoy	4,056 · 138		3,427	17,176	57.2	25.24
	1	Nuclear: AGR	1,134.000		1,040	5,541	62.6	37 - 17
	1	Diesel	8.000		8	_	_	_
	15	Total gas turbine (d)	3,044 - 310		3,015	43	0.2	15.43
	7	Hydro	113-473		112	255		WES - 1876
	1	Pumped storage	360 · 250		360	- 188	25.9	
			60,306 • 951	50.321 - 7	56,705		42.5	31.58 ≺

Average load is the number of GW h supplied from stations during the year (excluding units supplied from stations on pre-commissioning operation) divided by the product of the

Note Where the figures have been rounded, the totals are correct but not necessarily equal to the sum of the rounded figures

number of hours in the year and average declared net capability

O Includes Ffestiniog pumped storage ▼ Excludes 525 GW h imported from the CEGB system and 336 GW h sent out from Ffestiniog

<sup>◆</sup> Includes nuclear stations (a) Stations in which some boilers burn oil only and others coal only and where the steam is fed into a range

<sup>(</sup>b) Dual-fired boilers capable of burning coal or oil

<sup>(</sup>c) Boilers capable of burning either coal or gas or coal and gas at the same time

<sup>(</sup>d) Includes 1,664·810 MW Gen. main gas turbine sections (e) With the inclusion of diesel and gas turbine plant to represent total fossil fired plant the system thermal efficiency is 32·17 per cent.

### 2 Production and disposals of electricity 1920 to 1980-81: in GW h

	Power st	ation prod	Juction	Other sup	pplies			-	Net inter- change	CEGB system electricity requirem		Bulk sale	es of electric	city
		Electricity	y		From		То		-5			То	5	
Year ended 31 March	TO .	Used in stations	Supplied (2-3)	Outside sources (England and Wales)	South of		South of Scotland		with Scotland and France (6+7 -8-9)	e (4+5+10)	Electricity lost in main trans- mission	- Area Boards ▼	Direct consumers	Total to Area Boards and direct consumers s (13 + 14)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1920 🖪	3,773	265	3,508							3,508	-	3,508		3,508
1930	9,751	579	9,172							9,172	2	9,170		9,170
1938	21,927	1,215	20,712	15	126 ◆				126 ◆	20,853	323	20,354	176	20,530
1946	37,189	2,181	35,008	187	36 ♦				36 ♦	35,231	667	34,311	253	34,564
1948	38,665	2,274	36,391	139	179		130		49	36,579	681	35,658	240	35,898
1958	86,613	5,310	81,303	360	54		447		- 393	81,270	1,985	76,724	2,561	79,285
1959	91,753	5,520	86,233	438	62		598		- 536	86,135	2,174	80,936	3,025	83,961
	100,556	6,068	94,488	1,038	225		692		- 467	95,059	2,484	88,982	3,593	92,575
	111,414	6,673	104,741	1,306	603		944			105,706	2,814	99,108	3,784	102,892
	122,203	7,413	114,790	1,404	679	33	880	28		115,998	2,928	109,316		113,070
1963	136,537	8,805	127,732	1,503	667	138	1,522	49		128,469		122,272		125,009
	141,655	9,564	132,091	1,753	173	90	914	140		133,053		127,444		129,334
	151,301	10,279	141,022	1,743	138	77	563	296		142,121		136,340		138,218
1966	160,360	11,540	148,820	1,798	280	244	790	47		150,305		144,281		146,321
1967	164,885	12,113	152,772	1,864	142	431	449	72	52	154,688	4,507	147,930	2,251	150,181
	175,705	13,012	162,693	1,943	36	291	1,325	5		163,633		156,398	2,637	159,035
	187,064	13,646	173,418	2,173	56	762	2,044	2		174,363	A STATE OF THE PARTY OF THE PAR	166,141		169,146
	195,093	14,374	180,719	2,193	245	596	821	2		182,930	5,127	174,507		177,803
	201,164	15,006	186,158	2,270	579	353	337	6		189,017		180,436		184,450
	205,673	15,148	190,525	2,423	314	284	931	4		192,611		183,186		188,562
	220,683	16,186	204,497	2,032	1,391	275	565	2	1,099	207,628	4,089	198,087		203,539
1974	217,542	15,779	201,763	2,386	919	216	494	57	584	204,733	4,108	195,688		200,625
	227,226	16,278	210,948	2,095	562	128	1,192	117		212,424		202,586		208,215
	220,016	15,393	204,623	1,970	272	35	1,029	32		205,839		195,724	5,596	201,320
	224,783	16,217	208,566	1,563	371	4	926	92		209,486		198,756		204,661
1978	228,140	16,226	211,914	1,902	1,120	-	454		666	214,482	4,654	203,700	6,128	209,828
	238,148	16,057	222,091	1,865	1,381	7	653	83	652	224,608	4,961	213,979	5,668	219,647
	237,999	16,348	221,651	1,894	911	1	850	3		223,604		212,771	Control of Control	218,662
	226,761	15,210	211,551	1,883	1,245	22	331	19		214,351		203,721		209,240

#### Note

The figures are calculated on the assumption, for purposes of comparison, that the present organization of the electricity supply industry in Great Britain applied throughout Interchange of supplies with the South of Scotland Electricity Board from 1955-56, corresponding figures within the undertaking of the former British Electricity Authority from 1948-49 to 1954-55, and estimated corresponding figures for earlier years
 For years before 1948-49, estimated corresponding figures

### 3 Supplies to Area Boards 1980-81

	Electricity		rtion of kW h	Overall avera	age charge
Area Board	sold	Night	Peak	1980-81	1979-80
	kW h million	per cent	per cent	pence per kW h	pence per kW h
London	16,127	19-5	5.2	2.7471	2.2291
South Eastern	14,761	22.3	5.2	2.6620	2.1690
Southern	20,773	22.0	5-1	2.6814	2 · 1858
South Western	10,834	24.5	4.9	2.6145	2-1169
Eastern	23,528	20.8	5-1	2.7196	2-1973
East Midlands	18,526	21.6	5.2	2.6633	2.1745
Midlands	20,266	20.9	5.2	2.7114	2.1848
South Wales	10,530	23 · 1	4.9	2.5705	2.0999
Merseyside and North Wales	14,692	23.2	4.9	2.5724	2.0642
Yorkshire	21,192	22.2	5.0	2.6633	2-1514
North Eastern	13,259	23.7	4.9	2.6082	2-0913
North Western	19,233	21.8	5-1	2.6642	2 · 1530
Total 1980-81	203,721	21.9	5-1	2.6655	-
1979-80	212,771	22 · 1	5.0	-	2.1577

Calendar year

Net supplies

#### Power stations: plant at 31 March 1981 and operating results 1980-81

Name of power	station	Plant 2	Declared gross capability 3	Declared net capability	Details of generators 60 MW Gen. and over 5	Steam pressu and temperate turbine stop-v	ure at	Steam capacity of boilers 8	Firing 9	Cooling 10	Electricity supplied from station 11	Average load as per cent of average declared net capability 12	Thermal efficiency
C	Danien		MW Gen.	MW s.o.	MW Gen.	bar	°C	kg/s			GW h	per cent	per cent
South Eastern Total stations 3			12,556 · 904	11,954				10,562-5	1		22,764 · 492	21.8	29-42
Acton Lane		S	155-000	148		41-4	454	224.0	CG	C(T)	13-519	1.0	12.02
Ashford		D	8.000	8	527/522	2020101	2.00	120 2	22	101	Cr. 0.062	-	-
Bankside		SO	100-000	94	1x100	103-4	538	91.5	OF	E	Cr. 4·760	<b>-</b>	
Barking		SO	232 · 500	220	3x77 · 5	62 · 1	482	265.0	OF	ES	1.712	0.1	5-20
Battersea		S	162 - 700	146	1x100	41-4/93-1	427/510	330.0	PF	E	149.728	11.2	20.71
Belvedere		SO	480 · 000	460	4x60, 2x120	62-1/103-4	482/538	492.0	OF	ES	240 - 608	6.0	28.02
Blackwall Point		S	90.000	86		41-4	454	138-0	PF	ES	11-262	1.5	18-66
Bradwell		SN, D	258 - 350	245		50-3/12-4	371			S	Cr. 10-976	_	_
Brighton		S	330.000	308	2x60	62.0	482	440.0	PF	S	681 - 475	25.3	22.66
Brunswick Wha	arf	SO	346 · 000	330	2x63	62.0	482	473.0	OF	ES	343 · 138	11.9	24.33
Cliff Quay		S	276 - 000	258		41.4	441	414-0	PF	S	292 - 181	12.9	21-97
Croydon B		S	210-000	198		41.4	454	320.0	PF	R(T)	64-595	3.7	21.95
		G	140 - 000	140	2x70						Cr. 0.858	=	-
Deptford		S	166 - 500	158		62.0	482	221-0	CG	ES	87 - 369	6.3	16.89
Dungeness	A Station	SN, D	430-600	410	4x106	36.9	391			S	Cr. 20·569	-	
Goldington		S	180 - 000	168		41-4	454	228.0	PF	R(t)	41.396	2.8	19.30
Grain		SO	315-000	300	1x315	159-0	538	277.0	OF	S	581 - 573	22 · 1	30.52
		G	116-000	116							1.586	0.2	19-12
Hastings		G	110-000	110							Cr. 0-348	-	-
Kingsnorth		S, S0	2,000.000	1,920	4x500	158-6	538	1,788 - 0	OF, PF	S	8,740 - 528	52.0	32.53
territoria de la constanta de		G	70.000	68							0.391	0-1	19-28
Letchworth		G	140 - 000	140	2x70						3.904	0.3	18-48
Little Barford	A Station	S	126-000	120		44.8	482	152.0	PF	R(t)	Cr. 1-984	_	
	B Station	S	127 - 000	118	2x63·5	62 · 1	482	138-0	PF	R(T)	231-652	22 · 4	25.80
Littlebrook	C Station	SO	240.000	229	4x60	62 · 1	482	315-0	OF	ES	Cr. 2-913	_	-
Entropyoon	D Station	G	70.000	70		J. T. C.					0.276	0.2	22.52
Northfleet		SO	720.000	684	6x120	103-4	538	648-0	OF	ES	169 - 640	2.8	24-11
Norwich		G	110-000	110	2x65						Cr. 0.754	_	-
Richborough		SO	360.000	342	3x120	101-7	538	324.0	OF	E(T)	247 · 116	8.2	27.76
Rye House		S, D	128 - 000	120	- O. 120	41-4	454	176-0	PF	R(t)	18 - 905	1.8	16-98
nyo mouse		G	140 - 266	140	2x70			.,,			Cr. 0.957	_	_
Sizewell	A Station		502 - 988	420	2x250	44-5/17-4	387			S	2,747 · 503	74-7	26-07
South Denes	A Otation	50	256.000	248	4x64	62 · 1	482	276-0	OF	S	107 - 133	4.9	25-55
Taylor's Lane		G	140.000	140	2x70	· ·		2.00	•		1.351	0.2	17.12
Tilbury	A Station	so	360.000	348	6x60	62 · 1	482	408-0	OF	ES	35.734	1.2	21-00
riibury	B Station	S	1,330.000	1,272	2x315, 2x350	158-6	566	1,126.0	PF	ES	3,712.768	33.3	29.75
	D Glation	G	70.000	68	2.010, 2.000	.55 5	500	,,,20 0	50.50		0.261		23.34
Watford		G	140.000	140	2x70						2.325	0.2	16.04
West Ham		s	120.000	114	2470	43-1	460	184-0	CG	ES(T)	7-261	0.7	10-31
West Thurrock		S,SG	1,300.000	1,240	2x200, 3x300	162 • 0/158 • 6	566	1,114.0	PF, GF		4,264 223	39.3	31.31
VVEST HIUTTOCK		3,30	1,500-000	1,240	2,200, 3,300	102:0/ 100:0	300	1,114.0	rr, dr	2.0	7,207 220	30 0	3, 3,
Pre-commission	ning operat	ion									8.306	34	

Column 1: Name of power station In some cases, two or more technically separate stations share a site, e.g. Tilbury A and B; for most general purposes they are referred to as the Tilbury power station

Column 2: Type of Plant The following abbreviations are used:

G = gas turbine SCH = combined heat and power, supplying steam for industrial processing, from back pressure plant

H = hydro

D = diesel PS = pumped storage

S = steam

SO = steam with oil as fuel

SN = steam with nuclear fuel

SG = steam with gas as fuel

Column 9: Type of firing The following abbreviations are used:

SS = spreader stoker TG = travelling grate CG = chain grate stoker

OF = oil fuel

GF = gas fuel PF = pulverized fuel (coal)

Column 10: Type of cooling The following abbreviations are used: C = canal ES = lower estuary (i.e. saline)

L = lake S = sea

R (T) = tower cooling = river E

= upper estuary (i.e. non-saline (t) = mixed cooling

or brackish)

Column 12: Average load as per cent of average declared net capability Average load is the number of GW h supplied during the year (excluding electricity supplied from stations on pre-commissioning operation) divided by the number of hours in the year

Name of powe	r station	Plant 2	Declared gross capability 3	Declared net capability	Details of generators 60 MW Gen. and over 5	Steam pressurand temperaturbine stop-v	ure at	Steam capacity of boilers 8		Cooling 10	Electricity supplied from station 11	Average load as per cent of average declared net capability 12	Thermal efficiency
0. 4 10.4.	- Declar		MW Gen.	MW s.o.	MW Gen.	bar	°C	kg/s			GW h	per cent	per cent
South Wester Total stations 2			13,423-450	12,418				9,944-0			40,925-009	38.0	30.92
Aberthaw	A Station		600-000	516	6x100	103-4	524	570 • 0	PF, OF	S	1,718 - 786	38·0 52·3	30·23 32·72
	B Station	S G	1,399·000 52·500	1,310 51	2x462, 1x475	158-6	566	1,170-0	PF	S	5,620·143 0·393	0-1	11-84
Berkeley		SN, D	334 · 400 292 · 500	276	4x83 4x60	20·3/3·9 62·1	319/316 482	280.0	PF	ES S	1,003 · 923 384 · 884	41·5 19·6	22·30 22·09
Carmarthen Ba Didcot	У	S	1,920.000	1,820	4x480	158-6	566	1,620.0	PF	R(T)	9,169-428	57.7	30.88
		G	100.000	100							0·701 Cr. 0·145	0.1	15-17
Earley East Yelland		GT, D S, D	113·372 180·430	111 170		42.7	468	253.0	CG	S	3-100	0.2	5.50
Fawley		SO	2,000 - 000	1,932	4x500	158 · 6	538	1,788.0	OF	S	5,271·594 0·480	31·1 0·1	34·24 14·71
Hinkley Point	A Station	G SN, D	70·000 543·900	68 430	6x73·5	42-4/10-7	350/336			S	3,131.881	83 · 1	24.43
2/20/20	B Station		1,134-000	1,040	2x567	160-0	538			S	5,540 • 628	62-6	37 - 17
(Gas emergency su	turbines for polies only)		70.000										
Marchwood		SO	480.000	454	8x60	62 · 1	482	592.0	OF	S	59 · 864	1.5	20.77
Mary Tavy Grou	up Chagford Mary Tavy		0·026 2·622								11.981	45.6	_
	Morwellham	н	0.700	,	2.210	42.1	200			c	3,288 - 453	90-2	26-80
Oldbury-on-Se Pembroke	vern	SN,G	439·500 2,000·000	416 1,900	2x216 4x500	43 · 1 158 · 6	389 538	1,788-0	OF	S	4,467 • 597	26.8	34-07
		G	100-000	100						c	Cr. 0·127 7·234	0.4	13.86
Plymouth Poole		SO,D	217·500 320·000	205 305	2x60 2x60	62·1/41·4 62·1	482/468 496	258·0 387·0	OF OF	S	Cr. 0.088	-	
Portishead		80, D	363 · 000	339	6x60	62 · 1	482	456.0	OF	S	26-874	0.9	17.00
Rogerstone Uskmouth	A Station	S	120·000 240·000	114 228	2x60 4x60	62·1 62·1	482 482	138·0 320·0	PF PF	R(T) ES	211 · 666 19 · 802	21·2 1·0	24·39 15·81
OSKINOULI	B Station		330.000	306	3x110	103 · 4	538	324-0	PF	ES	979-600	36-5	28.94
6													
			•		_		7	8		10	11	12	13
1		2	3	4	5	6	7	8	9	10	11	12	13
Midlands Reg		2	3 MW Gen. 15,619·000	4 MW s.o. 14,776	5 MW Gen.	<b>6</b> bar	7 °C	8 kg/s 14,205-0	9	10	11 GW h 70,586·354	12 per cent 54·1	13 per cent 32-75
Midlands Reg Total stations 2	26, sites 19		MW Gen. 15,619·000	MW s.o.	MW Gen.	9	19900	kg/s	9 PF	10	GW h	per cent	per cent 32·75 29·34
Midlands Reg	26, sites 19	s s	MW Gen. 15,619·000 600·000 1,948·000	MW s.o. 14,776 564 1,840	STATE OF THE PARTY	bar	°C	kg/s 14,205·0			GW h 70,586·354 2,072·453 10,930·962	per cent 54·1 41·9 67·8	per cent 32·75 29·34 34·25
Midlands Reg Total stations 2 Castle Doningto Cottam	26, sites 19 on	s s G	MW Gen. 15,619·000 600·000 1,948·000 100·000	MW s.o. 14,776 564 1,840 100	MW Gen. 6x100 4x487	103·4 158·6	°C 566	kg/s 14,205-0 630-0	PF	R(t)	GW h 70,586·354 2,072·453	per cent 54·1 41·9	per cent 32·75 29·34
Midlands Reg Total stations 2 Castle Doningto	26, sites 19 on A Station B Station	s s G s	MW Gen. 15,619·000 600·000 1,948·000 100·000 244·000 480·000	MW s.o. 14,776 564 1,840 100 228 448	MW Gen. 6x100 4x487 2x60, 2x62 4x120	103·4 158·6 103·4 103·4	°C 566 566 566 538	kg/s 14,205·0 630·0 1,712·0 260·0 432·0	PF PF PF	R(t) E(T) R(t) R(t)	GW h 70,586-354 2,072-453 10,930-962 1-055 520-940 1,503-841	per cent 54·1 41·9 67·8 0·1 26·1 38·3	per cent 32·75 29·34 34·25 21·20 25·51 29·23
Midlands Reg Total stations 2 Castle Doningt Cottam Drakelow	A Station B Station C Station	S S G S S S S,D	MW Gen. 15,619-000 600-000 1,948-000 100-000 244-000 480-000 906-500	MW s.o. 14,776 564 1,840 100 228 448 860	MW Gen. 6x100 4x487 2x60, 2x62	103-4 158-6 103-4	°C 566 566	kg/s 14,205·0 630·0 1,712·0 260·0	PF PF	R(t) E(T)	GW h 70,586·354 2,072·453 10,930·962 1·055 520·940 1,503·841 3,439·623 0·012	per cent 54·1 41·9 67·8 0·1 26·1	per cent 32·75 29·34 34·25 21·20 25·51
Midlands Reg Total stations 2 Castle Doningto Cottam	A Station B Station C Station A Station B Station B Station	S S G S S S,D G	MW Gen. 15,619·000 600·000 1,948·000 100·000 244·000 906·500 15·000 330·000	MW s.o. 14,776 564 1,840 100 228 448 860 15 306	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325	103-4 158-6 103-4 103-4 241-3/158-6	°C 566 566 566 538 593/566 441	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0	PF PF PF PF	R(t) E(T) R(t) R(t) R(T)	GW h 70,586·354 2,072·453 10,930·962 1·055 520·940 1,503·841 3,439·623 0·012 Cr. 0·575	per cent 54·1 41·9 67·8 0·1 26·1 38·3 45·7	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18
Midlands Reg Total stations 2 Castle Doningt Cottam Drakelow Hams Hall	A Station B Station C Station A Station C Station C Station C Station C Station	S S G S S,D G S S,S,S	MW Gen. 15,619·000 600·000 1,948·000 100·000 244·000 480·000 906·500 15·000 330·000 390·000	MW s.o. 14,776 564 1,840 100 228 448 860 15 306 366	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65	103-4 158-6 103-4 103-4 241-3/158-6	°C 566 566 566 538 593/566	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0	PF PF PF PF	R(t) E(T) R(t) R(t) R(T)	GW h 70,586·354 2,072·453 10,930·962 1·055 520·940 1,503·841 3,439·623 0·012	per cent 54·1 41·9 67·8 0·1 26·1 38·3 45·7	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18
Midlands Reg Total stations 2 Castle Doningt Cottam Drakelow	A Station B Station C Station A Station C Station C Station C Station C Station	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	MW Gen. 15,619-000 600-000 1,948-000 100-000 244-000 906-500 15-000 330-000 390-000 972-000	MW s.o. 14,776 564 1,840 100 228 448 860 15 306 366 930 920	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1	°C 566 566 566 538 593/566 441 482	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 414·0	PF PF PF PF PF, GF	R(t) E(T) R(t) R(T) R(T)	GW h  70,586-354  2,072-453 10,930-962 1.055 520-940 1,503-841 3,439-623 0-012 Cr. 0-575 993-847 3,945-325 5,285-937	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 — 31·0 48·4 65·6	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18 — 26·36 30·43 33·13
Midlands Reg Total stations 2 Castle Doningt Cottam Drakelow Hams Hall High Marnham Ironbridge	A Station B Station C Station A Station C Station B Station C Station C Station	S S S S S S S S S S S S S S G S S S S S	MW Gen. 15,619-000 600-000 1,948-000 100-000 244-000 480-000 906-500 15-000 330-000 1,000-000 972-000 35-000	MW s.o. 14,776 564 1,840 100 228 448 860 15 306 366 930 920 34	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0	°C 566 566 566 538 593/566 441 482 566	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 411·0 868·0	PF PF PF PF PF, GF	R(t) E(T) R(t) R(t) R(T) R(T) E(T)	GW h  70,586·354  2,072·453 10,930·962 1.055 520·940 1,503·841 3,439·623 0.012 Cr. 0.575 993·847 3,945·325	per cent  54·1  41·9  67·8  0·1  26·1  38·3  45·7  -  31·0  48·4	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18
Midlands Reg Total stations 2 Castle Doningt Cottam Drakelow Hams Hall High Marnham Ironbridge Leicester Meaford	A Station B Station C Station A Station C Station B Station C Station C Station	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	MW Gen. 15,619-000 600-000 1,948-000 100-000 244-000 480-000 906-500 15-000 330-000 1,000-000 972-000 350-000 102-000 240-000	MW s.o. 14,776 564 1,840 100 228 448 860 15 306 366 930 920 34 102 224	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6	°C 566 566 566 538 593/566 441 482 566 566 566	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 414·0 868·0 844·0	PF PF PF PF PF, GF PF	R(t) E(T) R(t) R(t) R(T) R(T) E(T) R(T)	GW h  70,586·354  2,072·453 10,930·962 1.055 520·940 1,503·841 3,439·623 0.012 Cr. 0.575 993·847 3,945·325 5,285·937 0.174 2.353 859·853	per cent  54·1  41·9  67·8  0·1  26·1  38·3  45·7  -  31·0  48·4  65·6  0·1  0·3  43·8	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18
Midlands Reg Total stations 2 Castle Doningto Cottam Drakelow Hams Hall High Marnham Ironbridge Leicester Meaford Nechells	A Station B Station C Station A Station C Station B Station C Station C Station	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	MW Gen. 15,619-000 600-000 1,948-000 100-000 244-000 906-500 15-000 330-000 1,000-000 972-000 35-000 120-000 240-000 224-000	MW s.o.  14,776  564 1,840 100 228 448 860 15 306 366 930 920 34 102 224 212	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6	°C 566 566 566 538 593/566 441 482 566 566 566 441	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 411·0 868·0 844·0	PF PF PF PF PF, GF PF	R(t) E(T) R(t) R(T) R(T) R(T) E(T) R(T)	GW h  70,586·354  2,072·453 10,930·962 1·055 520·940 1,503·841 3,439·623 0·012 Cr. 0·575 993·847 3,945·325 5,285·937 0·174 2·353	per cent  54·1  41·9  67·8  0·1  26·1  38·3  45·7  -  31·0  48·4  65·6  0·1  0·3	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18 — 26·36 30·43 33·13 20·23 10·50
Midlands Reg Total stations 2 Castle Doningte Cottam Drakelow Hams Hall High Marnham Ironbridge Leicester Meaford Nechells Nottingham Ocker Hill	A Station B Station C Station B Station C Station B Station C Station B Station C Station	\$ \$ G \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	MW Gen. 15,619-000 600-000 1,948-000 100-000 244-000 480-000 906-500 15-000 330-000 1,000-000 972-000 35-000 102-000 240-000 274-000 274-000 274-000 280-000	MW s.o.  14,776  564  1,840  100  228  448  860  15  306  366  930  920  34  102  224  212  148  280	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486 4x60	103-4 158-6 103-4 103-4 241-3/158-6 44-8 62-1 162-0 158-6	°C 566 566 538 593/566 441 482 566 566 441 482/454	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 414·0 868·0 844·0 260·0 348·0 236·0	PF PF PF PF, GF PF CG PF	R(t) E(T) R(t) R(T) R(T) R(T) R(T) R(T) R(T)	GW h 70,586·354  2,072·453 10,930·962 1·055 520·940 1,503·841 3,439·623 0·012 Cr. 0·575 993·847 3,945·325 5,285·937 0·174 2·353 859·853 52·869 55·732 5·606	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 - 31·0 48·4 65·6 0·1 0·3 43·8 2·8 4·2 0·2	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18 — 26·36 30·43 33·13 20·23 10·50 26·98 14·90 18·88 16·98
Midlands Reg Total stations 2 Castle Doningt Cottam Drakelow Hams Hall High Marnham Ironbridge Leicester Meaford Nechells Nottingham	A Station B Station C Station B Station C Station B Station C Station B Station C Station	8 8 9 8 8 9 9 9 8 8 8 9 9 8 8 8 9 9 8 8 8 9 9 8 8 8 9 9 8 8 8 9 9 8 8 8 9 9 8 8 8 9 9 8 8 9 9 8 9 8 9 9 8 9 8 9	MW Gen.  15,619·000  600·000 1,948·000 100·000 244·000 906·500 15·000 330·000 1,000·000 972·000 350·000 102·000 244·000 224·000 224·000 280·000 2,000·000	MW s.o.  14,776  564  1,840  100  228  448  860  15  306  366  930  920  34  102  224  212  148  280  1,932	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486 4x60	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6	°C 566 566 566 538 593/566 441 482 566 566 566 441	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 411·0 868·0 844·0	PF PF PF PF PF, GF PF PF	R(t) E(T) R(t) R(t) R(T) R(T) E(T) R(T)	GW h  70,586·354  2,072·453 10,930·962 1·055 520·940 1,503·841 3,439·623 0·012 Cr. 0·575 993·847 3,945·325 5,285·937 0·174 2·353 859·853 52·869 55·732 5·606 13,885·960	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 31·0 48·4 65·6 0·1 0·3 43·8 2·8 4·2	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18 — 26·36 30·43 33·13 20·23 10·50 26·98 14·90 18·88
Midlands Reg Total stations 2 Castle Doningt Cottam Drakelow Hams Hall High Marnham Ironbridge Leicester Meaford Nechells Nottingham Ocker Hill	A Station B Station C Station B Station C Station B Station C Station C Station B Station C Station A Station C Station C Station	\$ \$ G \$ \$ \$ \$ G \$ \$ \$ \$ \$ \$ G \$ \$ \$ \$ \$	MW Gen.  15,619-000  600-000 1,948-000 100-000 244-000 906-500 15-000 390-000 1,000-000 972-000 35-000 102-000 240-000 224-000 280-000 70-000 600-000	MW s.o.  14,776  564 1,840 100 228 448 860 15 306 366 930 920 34 102 224 212 148 280 1,932 68 560	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486 4x60 4x70 4x500 5x120	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6 103·4 44·8 62·1/41·4	°C 566 566 566 538 593/566 441 482 566 566 441 482/454 566 538	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 414·0 868·0 844·0 260·0 348·0 236·0 1,740·0	PF PF PF PF PF, GF PF PF PF	R(t) E(T) R(t) R(t) R(T) R(T) E(T) R(T) R(T) R(T)	GW h  70,586·354  2,072·453 10,930·962 1.055 520·940 1,503·841 3,439·623 0.012 Cr. 0.575 993·847 3,945·325 5,285·937 0.174 2.353 859·853 55-732 5.606 13,885·960 0.903 2,612·838	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 31·0 48·4 65·6 0·1 0·3 43·8 2·8 4·2 0·2 82·0 0·2 53·3	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18 — 630·43 33·13 20·23 10·50 26·98 14·90 18·88 16·98 35·09 21·00 29·56
Midlands Reg Total stations 2 Castle Doningto Cottam Drakelow Hams Hall High Marnham Ironbridge Leicester Meaford Nechells Nottingham Ocker Hill Ratcliffe-on-Sco	A Station B Station C Station A Station C Station C Station B Station B Station	8 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	MW Gen. 15,619-000 600-000 1,948-000 100-000 244-000 906-500 15-000 330-000 1,000-000 972-000 35-000 102-000 240-000 240-000 240-000 270-000 600-000 974-000	MW s.o.  14,776  564 1,840 100 228 448 860 15 306 366 930 920 34 102 224 212 148 280 1,932 68 560 920	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486 4x60	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6	°C 566 566 566 538 593/566 441 482 566 566 441 482/454 566	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 414·0 868·0 844·0 260·0 348·0 236·0 1,740·0	PF PF PF PF PF, GF PF CG PF	R(t) E(T) R(t) R(t) R(T) R(T) E(T) R(T) R(T) R(T)	GW h 70,586·354  2,072·453 10,930·962 1.055 520·940 1,503·841 3,439·623 0·012 Cr. 0·575 993·847 3,945·325 5,285·937 0·174 2·353 859·853 52·869 55·732 5·606 13,885·960 0·903 2,612·838 6,724·920	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 31·0 48·4 65·6 0·1 0·3 43·8 2·8 4·2 0·2 82·0 0·2	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18
Midlands Reg Total stations 2 Castle Doningto Cottam Drakelow Hams Hall High Marnham Ironbridge Leicester Meaford Nechells Nottingham Ocker Hill Ratcliffe-on-Sco	A Station B Station C Station B Station C Station B Station C Station C Station B Station C Station A Station C Station C Station	\$ \$ G \$ \$ \$ \$ G \$ \$ \$ \$ \$ \$ G \$ \$ \$ \$ \$	MW Gen.  15,619-000  600-000 1,948-000 100-000 244-000 480-000 390-000 1,000-000 972-000 350-000 102-000 224-000 174-500 2,000-000 70-000 600-000 974-000 50-000 30-000	MW s.o.  14,776  564  1,840  100  228  448  860  15  306  366  930  920  34  102  224  212  148  280  1,932  68  560  920  50  18	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486 4x60 4x70 4x500 5x120 2x487	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6 103·4 44·8 62·1/41·4 158·6 103·4 158·6	°C  566 566 566 538 593/566  441 482 566 566  566 441 482/454 566 538 566 468	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 414·0 868·0 844·0 260·0 348·0 236·0 1,740·0 540·0 856·0 92·0	PF PF PF PF PF, GF PF CG PF	R(t) E(T) R(t) R(T) R(T) R(T) E(T) R(T) R(T) R(T) R(T)	GW h  70,586·354  2,072·453 10,930·962 1.055 520·940 1,503·841 3,439·623 0.012 Cr. 0.575 993·847 3,945·325 5,285·937 0.174 2.353 859·853 52·869 55·732 5.606 13,885·960 0.903 2,612·838 6,724·920 0.334 79·283	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 - 31·0 48·4 65·6 0·1 0·3 43·8 2·8 4·2 0·2 82·0 0·2 53·3 83·4 0·1 50·3	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18
Midlands Reg Total stations 2 Castle Doningt Cottam  Drakelow  Hams Hall  High Marnham Ironbridge  Leicester Meaford Nechells Nottingham Ocker Hill Ratcliffe-on-So Rugeley	A Station B Station C Station C Station C Station B Station C Station	SSGSSSGGSSSGGSGSGGSGSGGS	MW Gen.  15,619-000  600-000 1,948-000 100-000 244-000 480-000 906-500 15-000 390-000 1,000-000 972-000 35-000 120-000 240-000 224-000 174-500 280-000 70-000 600-000 974-000 30-000 30-000	MW s.o.  14,776  564  1,840  100  228  448  860  15  306  366  930  920  34  102  224  212  148  280  1,932  68  560  920  50  18  336	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486 4x60 4x70 4x500 5x120 2x487	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6 103·4 44·8 62·1/41·4 158·6 103·4 158·6	°C  566 566 566 538 593/566 441 482 566 566 441 482/454 566 538 566 468 482	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 411·0 868·0 844·0 260·0 348·0 236·0 1,740·0 856·0 92·0 480·0	PF PF PF PF PF, GF PF CG PF PF CG SS	R(t) E(T) R(t) R(t) R(T) R(T) R(T) R(T) R(T) R(T) R(T)	GW h  70,586·354  2,072·453 10,930·962 1.055 520·940 1,503·841 3,439·623 0.012 Cr. 0.575 993·847 3,945·325 5,285·937 0.174 2.353 859·853 52·869 55·732 5.606 13,885·960 0.903 2,612·838 6,724·920 0.334 79·283 98·231	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 31·0 48·4 66·6 0·1 0·3 43·8 2·8 4·2 0·2 82·0 0·2 53·3 83·4 0·1 50·3 3·3	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18 — 30·43 33·13 20·23 10·50 26·98 14·90 18·88 16·98 35·09 21·00 29·56 35·47 16·69 63·05 17·86
Midlands Reg Total stations 2 Castle Doningte Cottam  Drakelow  Hams Hall  High Marnham Ironbridge  Leicester Meaford Nechells Nottingham Ocker Hill Ratcliffe-on-So Rugeley  Spondon Staythorpe	A Station B Station C Station B Station C Station C Station B Station C Station C Station C Station C Station C Station C Station B Station B Station	8 8 9 8 8 9 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 9 8 9 9 8 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 9 8 9 9 9 9 8 9	MW Gen.  15,619-000  600-000 1,948-000 100-000 244-000 480-000 390-000 1,000-000 972-000 350-000 102-000 224-000 174-500 2,000-000 70-000 600-000 974-000 50-000 30-000	MW s.o.  14,776  564  1,840  100  228  448  860  15  306  366  930  920  34  102  224  212  148  280  1,932  68  560  920  50  18	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486 4x60 4x70 4x500 5x120 2x487	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6 103·4 44·8 62·1/41·4 158·6 103·4 158·6	°C  566 566 566 538 593/566  441 482 566 566  566 441 482/454 566 538 566 468	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 414·0 868·0 844·0 236·0 1,740·0 540·0 856·0 92·0 480·0 324·0 131·0	PF PF PF PF PF PF CG PF PF CG SS PF PF	R(t) E(T) R(t) R(T) R(T) E(T) R(T) R(T) R(T) R(T) R(T)	GW h  70,586·354  2,072·453 10,930·962 1·055 520·940 1,503·841 3,439·623 0·012 Cr. 0·575 993·847 3,945·325 5,285·937 0·174 2·353 859·853 52·869 55·732 5·606 13,885·960 0·903 2,612·838 6,724·920 0·334 79·283 98·231 1,962·619 393·174	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 - 31·0 48·4 65·6 0·1 0·3 43·8 2·8 4·2 0·2 82·0 0·2 82·0 0·2 53·3 83·4 0·1 50·3 3·3 66·7 40·1	per cent  32·75  29·34  34·25  21·20  25·51  29·23  29·60  7·18
Midlands Reg Total stations 2 Castle Doningto Cottam  Drakelow  Hams Hall  High Marnham Ironbridge  Leicester Meaford Nechells Nottingham Ocker Hill Ratcliffe-on-So Rugeley  Spondon Staythorpe  Stourport Walsall	A Station B Station C Station C Station C Station B Station C Station C Station C Station B Station C Station B Station A Station B Station B Station B Station B Station B Station B Station	8 8 9 8 8 9 9 9 8 9 9 9 9 9 9 9 9 9 9 9	MW Gen.  15,619-000  600-000 1,948-000 100-000 244-000 480-000 906-500 15-000 330-000 1,000-000 972-000 350-000 240-000 224-000 224-000 224-000 270-000 600-000 972-000 360-000 360-000 120-000 204-000	MW s.o.  14,776  564  1,840  100  228  448  860  15  306  366  930  920  34  102  224  212  148  280  1,932  68  560  920  50  18  336  336  336  112  191	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486 4x60 4x70 4x500 5x120 2x487	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6 103·4 44·8 62·1/41·4 158·6 62·1 62·1 103·4 103·4 158·6	°C  566 566 566 538 593/566  441 482 566 566  566 441 482/454  566  538 566 468 482 538 566/510 454	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 414·0 868·0 844·0 260·0 348·0 236·0 1,740·0 540·0 856·0 92·0 480·0 324·0 131·0 300·0	PF PF PF PF, GF PF CG PF PF CG SS PF PF CG	R(t) E(T) R(t) R(T) R(T) R(T) E(T) R(T) R(T) R(T) R(T) R(T)	GW h  70,586·354  2,072·453 10,930·962 1.055 520·940 1,503·841 3,439·623 0.012 Cr. 0.575 993·847 3,945·325 5,285·937 0.174 2.353 859·853 52·869 55·732 5-606 13,885·960 0.903 2,612·838 6,724·920 0.334 79·283 98·231 1,962·619 393·174 27·172	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 - 31·0 48·4 65·6 0·1 0·3 43·8 2·8 4·2 0·2 82·0 0·2 53·3 83·4 0·1 50·3 3·3 66·7 40·1 1·6	per cent  32·75  29·34  34·25  21·20  25·51  29·23  29·60  7·18
Midlands Reg Total stations 2 Castle Doningt Cottam  Drakelow  Hams Hall  High Marnham Ironbridge  Leicester Meaford Nechells Nottingham Ocker Hill Ratcliffe-on-So Rugeley  Spondon Staythorpe Stourport	A Station B Station C Station C Station C Station B Station C Station C Station C Station B Station C Station B Station A Station B Station B Station B Station B Station B Station B Station	8 8 9 8 8 9 9 9 8 9 8 9 9 9 8 9 9 9 9 9	MW Gen.  15,619-000  600-000 1,948-000 100-000 244-000 330-000 330-000 350-000 102-000 244-000 224-000 224-000 224-000 274-000 280-000 70-000 974-000 974-000 30-000 30-000 30-000 30-000 30-000 360-000	MW s.o.  14,776  564  1,840  100  228  448  860  15  306  366  930  920  34  102  224  212  148  280  1,932  68  560  920  50  18  336  336  336  112	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486 4x60 4x70 4x500 5x120 2x487	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6 103·4 44·8 62·1/41·4 158·6 103·4 103·4 103·4 103·4 103·4	°C  566 566 566 538 593/566  441 482 566 566  566 441 482/454 566  468 482 538 566/510 454 566	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 414·0 888·0 844·0 236·0 1,740·0 540·0 856·0 92·0 480·0 324·0 131·0 300·0 1,740·0	PF PF PF PF PF PF PF PF CG PF CG PF	R(t) E(T) R(t) R(T) R(T) R(T) E(T) R(T) R(T) R(T) R(T) R(T)	GW h  70,586·354  2,072·453 10,930·962 1.055 520·940 1,503·841 3,439·623 0·012 Cr. 0·575 993·847 3,945·325 5,285·937 0·174 2·353 859·853 55·732 5·606 13,885·960 0·903 2,612·838 6,724·920 0·334 79·283 98·231 1,962·619 393·174 27·172 11,570·841 0·534	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 31·0 48·4 665·6 0·1 0·3 43·8 2·8 4·2 0·2 82·0 0·2 53·3 83·4 0·1 50·3 3·3 66·7 40·1 1·6 71·8 0·1	per cent 32·75 29·34 34·25 21·20 25·51 29·60 7·18 — 63·43 33·13 20·23 10·50 26·98 14·90 18·88 16·98 35·09 21·00 29·56 35·47 16·69 63·05 17·86 32·02 27·65 12·82 34·21 19·47
Midlands Reg Total stations 2 Castle Doningto Cottam  Drakelow  Hams Hall  High Marnham Ironbridge  Leicester Meaford Nechells Nottingham Ocker Hill Ratcliffe-on-So Rugeley  Spondon Staythorpe  Stourport Walsall	A Station B Station C Station B Station B Station B Station A Station B Station B Station A Station B Station B Station B Station	8 8 9 8 8 9 9 9 8 9 9 9 9 9 9 9 9 9 9 9	MW Gen.  15,619-000  600-000 1,948-000 100-000 244-000 330-000 330-000 330-000 1,000-000 972-000 240-000 224-000 224-000 224-000 250-000 30-000 30-000 30-000 30-000 30-000 30-000 30-000 30-000 30-000 30-000 360-000 120-000 204-000 1,924-000 1,924-000 1,924-000 1,924-000 1,924-000 1,924-000 1,924-000 1,924-000 1,924-000 1,924-000 1,924-000 1,924-000	MW s.o.  14,776  564  1,840  100  228  448  860  15  306  366  930  920  34  102  224  212  148  280  1,932  68  560  920  50  18  336  336  112  191  1,840	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486 4x60 4x70 4x500 5x120 2x487	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6 103·4 44·8 62·1/41·4 158·6 62·1 62·1 103·4 103·4 158·6	°C  566 566 566 538 593/566  441 482 566 566  566 441 482/454  566  538 566 468 482 538 566/510 454	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 414·0 868·0 844·0 260·0 348·0 236·0 1,740·0 540·0 856·0 92·0 480·0 324·0 131·0 300·0	PF PF PF PF, GF PF CG PF PF CG SS PF PF CG	R(t) E(T) R(t) R(T) R(T) R(T) E(T) R(T) R(T) R(T) R(T) R(T)	GW h  70,586·354  2,072·453 10,930·962 1.055 520·940 1,503·841 3,439·623 0.012 Cr. 0.575 993·847 3,945·325 5,285·937 0.174 2.353 859·853 52·869 55·732 5.606 13,885·960 0.903 2,612·838 6,724·920 0.334 79·283 98·231 1,962·619 393·174 27·172 11,570·841	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 31·0 48·4 65·6 0·1 0·3 43·8 2·8 4·2 0·2 82·0 0·2 53·3 83·4 0·1 50·3 3·3 66·7 40·1 1·6 71·8	per cent 32·75 29·34 34·25 21·20 25·51 29·23 29·60 7·18
Midlands Reg Total stations 2 Castle Doningto Cottam  Drakelow  Hams Hall  High Marnham Ironbridge  Leicester Meaford Nechells Nottingham Ocker Hill Ratcliffe-on-So Rugeley  Spondon Staythorpe  Stourport Walsall West Burton	A Station B Station C Station B Station B Station B Station A Station B Station	8 8 9 8 8 9 9 9 8 9 9 9 9 9 9 9 9 9 9 9	MW Gen.  15,619-000  600-000 1,948-000 100-000 244-000 380-000 15-000 390-000 1,000-000 35-000 174-500 280-000 270-000 600-000 974-000 360-000 360-000 120-000 1,924-000 1,924-000	MW s.o.  14,776  564  1,840  100  228  448  860  15  306  366  930  920  34  102  224  212  148  280  1,932  68  560  920  50  18  336  336  112  191  1,840  68  392	6x100 4x487 2x60, 2x62 4x120 1x255, 2x325 6x65 5x200 2x486 4x60 4x70 4x500 5x120 2x487 6x60 3x120 2x60 4x481 4x104	103·4 158·6 103·4 103·4 241·3/158·6 44·8 62·1 162·0 158·6 103·4 44·8 62·1/41·4 158·6 103·4 103·4/86·2 41·4 158·6	°C  566 566 566 538 593/566  441 482 566 566  566 441 482/454 566  538 566/510 454 566 566	kg/s 14,205·0 630·0 1,712·0 260·0 432·0 788·0 450·0 414·0 868·0 844·0 236·0 1,740·0 540·0 856·0 92·0 480·0 324·0 131·0 300·0 1,740·0 420·0	PF PF PF PF PF PF CG PF PF CG SS PF PF CG PF	R(t) E(T) R(t) R(T) R(T) E(T) R(T) R(T) R(T) R(T) R(T) R(T) R(T)	GW h  70,586·354  2,072·453 10,930·962 1·055 520·940 1,503·841 3,439·623 0·012 Cr. 0·575 993·847 3,945·325 5,285·937 0·174 2·353 859·853 52·869 55·732 5·606 13,885·960 0·903 2,612·838 6,724·920 0·334 79·283 98·231 1,962·619 393·174 27·172 11,570·841 0·534 1,507·176	per cent  54·1  41·9 67·8 0·1 26·1 38·3 45·7 - 31·0 48·4 65·6 0·1 0·3 43·8 2·8 4·2 0·2 82·0 0·2 82·0 0·2 53·3 83·4 0·1 50·3 3·3 66·7 40·1 1·6 71·8 0·1 43·9	per cent  32·75  29·34  34·25  21·20  25·51  29·23  29·60  7·18

			Declared	Declared	Details of generators 60 MW Gen.	Steam pressur		Steam capacity			Electricity supplied	Average load as per cent of average declared net	Thermal
Name of power :	station	Plant 2	gross capability 3	net capability 4	and over	turbine stop-va	alve	of boilers 8	Firing 9	Cooling 10	from station	capability 12	efficiency 13
2 12 12V 15 0	and the same		MW Gen.	MW s.o.	MW Gen.	bar	°C	kg/s			GW h	per cent	per cent
North Eastern I Total stations 21			11,881-000	11,261				10,853-2			53,460 · 568	54.0	32-61
Blyth A	A Station	s	480-000	448	4x120	103-4	538	432.0	PF	s	2,979 - 437	75-9	33 · 12
	B Station	S	1,180-000	1,100	2x260, 2x330	158 - 6	566	1,014-0	PF	S	4,185-110	43.4	30.53
Doncaster		S	130 · 000	122	0.000	41-4	454	184.0	TG PF	C E(T)	62·405 10.750·555	5·8 65·5	20·68 35·29
Drax		S	1,980·000 70·000	1,875 70	3x660	158-6	565	1,683.0	FF	E(I)	0.677	0.1	14.50
Dunston		G S	104.000	98		41-4	454	104-0	PF	ES	80 · 288	9-4	24.00
Eggborough		S	1,800.000	1,720	4x450	158-6	566	1,612.0	PF	R(T)	10,111-911	67 · 1	33-61
-99		G	70.000	68			7000	10000000	22		0.608	0-1	22.63
Elland		S	180 · 000	168	3x60	62 · 1	482	207·0 288·0	PF PF	R(t) R(t)	610 · 433 1,760 · 864	41·5 71·3	26·49 31·29
	B Station	S	2,000.000	282 1,932	3x100 4x500	103 · 4 158 · 6	524 566	1,740.0	PF	R(T)	13,110 684	77-5	35.03
,	C Station	S	70.000	68	42500	150 0	500	1,740 0	5.53		0.931	0.2	22.86
Hartlepool		G	70.000	68							0.778	0-1	16.02
Huddersfield		S	60.000	56	VENEZA VI	41-4	454	92.0	TG	R(t)	48 - 575	9.9	24.48
Keadby		S	360.000	336	6x60	62 · 1	482	414.0	PF	ES P(+)	503 · 425 Cr. 1 · 601	17.1	23.43
Mexborough		S	120·000 251·000	113 236	4x62·75	41·4 62·1	454 496	161·0 315·0	TG PF	R(t) S	341.701	16-5	23.03
North Tees Skelton Grange	A Station	S	180.000	168	3x60	62 · 1	496	207-0	PF	R(t)	313 - 253	21.3	24.37
	B Station	S	480-000	448	4x120	103 · 4	538	432.0	PF	R(T)	2,127-912	54.2	30-20
Stella North		s	240.000	224	4x60	62 · 1	482	257 · 2	PF	ES(T)	688-005	35 1	25.58
Stella South		S	315.000	300	5x63	62 · 1	482	345.0	PF	ES D(A)	976·913 98·106	37·2 8·7	26·74 18·57
Thornhill		S	135.000	129	2500	27·6 158·6	441 566	200·0 890·0	TG PF	R(t) E(T)	4,011.810	48-6	31 - 19
Thorpe Marsh		S	1,000·000 56·000	942 56	2x500	130.0	500	050-0			0.410	0.1	19-16
Wakefield		S	250.000	234	4x62·5	62 · 1	482	276-0	PF	R(t)	695 · 190	33.9	25.38
Pre-commissioni	ing operati	ion									2.877		
Stations decom	missioned										Cr. 0-689		
	missioned	2	3	•	5	6	7	8	9	10	Cr. 0-689	12	13
	missioned	2	3 MW Gen.		5 MW Gen.	<b>6</b>	7 °C	<b>8</b> kg/s	9	10	39907 (320)	12 per cent	13 per cent
Stations decoming  1  North Western Total stations 24	n Region	2	92		111-22-5	124 20	Crades.	CT And	9	10	11		Second to the second
1 North Western	n Region 4, sites 23		MW Gen. 6,826·597 358·325	MW s.o. 6,296	111-22-5	bar 41-4/103-4	°C 454/538	kg/s 4,757·0 360·0	PF	R(T)	11 GW h 23,814·317 1,084·487	per cent 41·9 36·8	per cent 29-51 30-27
North Western Total stations 24 Agecroft B & C Bold	n Region 4, sites 23 C Stations A Station	S, G S	MW Gen. 6,826·597 358·325 128·000	MW s.o. 6,296 336 120	MW Gen.	bar 41-4/103-4 41-4	°C 454/538 454	kg/s 4,757·0 360·0 152·0	PF PF	R(T) R(T)	11 GW h 23,814-317 1,084-487 74-363	per cent 41·9 36·8 7·1	per cent 29·51 30·27 21·20
North Western Total stations 24 Agecroft B & C Bold	n Region 4, sites 23 C Stations	S, G S	MW Gen. 6,826·597 358·325 128·000 180·000	MW s.o. 6,296 336 120 168	MW Gen.	41·4/103·4 41·4 62·1	°C 454/538 454 482	kg/s 4,757·0 360·0 152·0 207·0	PF PF	R(T) R(T) R(T)	11 GW h 23,814·317 1,084·487 74·363 534·108	per cent 41·9 36·8	per cent 29-51 30-27
North Western Total stations 24 Agecroft B & C Bold Bromborough	n Region 4, sites 23 C Stations A Station	s, G s s	MW Gen. 6,826-597 358-325 128-000 180-000 205-000	MW s.o. 6,296 336 120 168 197	MW Gen. 2x124 3x60	41·4/103·4 41·4 62·1 62·1	°C 454/538 454	kg/s 4,757·0 360·0 152·0	PF PF	R(T) R(T)	11 GW h 23,814-317 1,084-487 74-363	per cent 41·9 36·8 7·1	per cent 29·51 30·27 21·20 26·66 —
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington	n Region 4, sites 23 C Stations A Station	S, G S	MW Gen. 6,826·597 358·325 128·000 180·000	MW s.o. 6,296 336 120 168	MW Gen.	41·4/103·4 41·4 62·1 62·1 62·1 62·1	°C  454/538 454 482 482 482 482 482	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 315·0	PF PF OF PF	R(T) R(T) R(T) S C R(T)	11 GW h 23,814·317 1,084·487 74·363 534·108 Cr. 1·528 866·751 302·404	per cent 41·9 36·8 7·1 36·3 - 41·2 14·6	per cent 29-51 30-27 21-20 26-66 
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay	n Region 4, sites 23 C Stations A Station B Station	S, G S S SO S S	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 256·000 192·000	MW s.o. 6,296 336 120 168 197 240 236 180	MW Gen.  2x124  3x60  4x64	41·4/103·4 41·4 62·1 62·1 62·1	°C 454/538 454 482 482 482	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0	PF PF PF OF PF	R(T) R(T) R(T) S C	11 GW h 23,814·317 1,084·487 74·363 534·108 Cr. 1·528 866·751 302·404 299·391	per cent 41·9 36·8 7·1 36·3	per cent 29·51 30·27 21·20 26·66 —
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli	n Region 4, sites 23 C Stations A Station B Station	S,G S S S S S S S	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 256·000 192·000 6·500	MW s.o. 6,296 336 120 168 197 240 236 180 5	MW Gen.  2x124  3x60  4x64	41·4/103·4 41·4 62·1 62·1 62·1 62·1	°C  454/538 454 482 482 482 482 482	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 315·0	PF PF OF PF	R(T) R(T) R(T) S C R(T)	11 GW h 23,814-317 1,084-487 74-363 534-108 Cr. 1-528 866-751 302-404 299-391 10-285	per cent 41·9 36·8 7·1 36·3 41·2 14·6 19·0 23·5	per cent 29·51 30·27 21·20 26·66  26·63 22·83 23·82
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog	n Region 4, sites 23 C Stations A Station B Station	S, G S S S S S S S H H	MW Gen. 6,826·597 358·325 128·000 205·000 256·000 252·000 6·500 26·500	MW s.o. 6,296 336 120 168 197 240 236 180 5	2x124 3x60 4x64 4x63	41·4/103·4 41·4 62·1 62·1 62·1 62·1	°C  454/538 454 482 482 482 482 482	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 315·0	PF PF OF PF	R(T) R(T) R(T) S C R(T)	11 GW h 23,814·317 1,084·487 74·363 534·108 Cr. 1·528 866·751 302·404 299·391	per cent 41·9 36·8 7·1 36·3 - 41·2 14·6 19·0 23·5 27·8	per cent 29·51 30·27 21·20 26·66 22·83 22·83 23·82
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli	n Region 4, sites 23 C Stations A Station B Station	S,G S S S S S S S	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 256·000 192·000 6·500	MW s.o. 6,296 336 120 168 197 240 236 180 5	MW Gen.  2x124  3x60  4x64	41·4/103·4 41·4 62·1 62·1 62·1 62·1	°C  454/538 454 482 482 482 482 482	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 315·0	PF PF OF PF	R(T) R(T) R(T) S C R(T)	GW h 23,814-317 1,084-487 74-363 534-108 Cr. 1-528 866-751 302-404 299-391 10-285 65-675	per cent 41·9 36·8 7·1 36·3 - 41·2 14·6 19·0 23·5 27·8	per cent 29·51 30·27 21·20 26·66 26·63 22·83 23·82
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog	n Region 4, sites 23 C Stations A Station B Station	S, G S S S S S S S H H	MW Gen. 6,826·597 358·325 128·000 205·000 256·000 252·000 6·500 26·500	MW s.o. 6,296 336 120 168 197 240 236 180 5	2x124 3x60 4x64 4x63	41·4/103·4 41·4 62·1 62·1 62·1 62·1	°C  454/538 454 482 482 482 482 482	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 315·0	PF PF OF PF	R(T) R(T) R(T) S C R(T)	GW h  23,814·317  1,084·487 74·363 534·108 Cr. 1·528 866·751 302·404 229·391 10·285 65·675 36:770 - 525·090 12,317·212	per cent 41·9  36·8 7·1 36·3  41·2 14·6 19·0 23·5 27·8 10·7 74·8	per cent 29·51 30·27 21·20 26·66 - 26·63 22·83 23·82 - -
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog	n Region 4, sites 23 C Stations A Station B Station	S,G S S S S S S S H H PS,D	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 256·000 6·500 26·500 360·250 2,000·000 70·000	MW s.o. 6,296 336 120 168 197 240 236 180 5 27 360 1,880 68	2x124 3x60 4x64 4x63	41·4/103·4 41·4 62·1 62·1 62·1 41·4	°C  454/538 454 482 482 482 482 484 566	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 315·0 228·0	PF PF PF OF PF PF	R(T) R(T) R(T) S C R(T) ES(T)	GW h  23,814-317  1,084-487 74-363 534-108 Cr. 1-528 866-751 302-404 299-391 10-285 65-675 336-770 - 525-090 12,317-212 0-366	per cent 41·9 36·8 7·1 36·3 41·2 14·6 19·0 23·5 27·8 10·7 74·8 0·1	per cent 29·51 30·27 21·20 26·66 - 26·63 22·83 23·82 - - - 34·16 20·52
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood	n Region 4, sites 23 C Stations A Station B Station	S,G S S S S S S S S S S S S S S S S S S	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 256·000 6·500 26·500 360·250 2,000·000 70·000 96·000	MW s.o. 6,296 336 120 168 197 240 236 180 5 27 360 1,880 68 90	2x124 3x60 4x64 4x63	41·4/103·4 41·4 62·1 62·1 62·1 41·4	°C  454/538 454 482 482 482 482 482 454	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 228·0	PF PF PF OF PF PF	R(T) R(T) R(T) S C R(T) ES(T)	GW h  23,814·317  1,084·487  74·363 534·108 Cr. 1·528 866·751 302·404 299·391 10·285 65·675 336·770 - 525·090 12,317·212 0·366 20·152	per cent 41·9 36·8 7·1 36·3 - 41·2 14·6 19·0 23·5 27·8 10·7 74·8 0·1 2·6	per cent 29·51 30·27 21·20 26·66 26·63 22·83 23·82 34·16 20·52 20·45
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood Heysham	n Region 4, sites 23 C Stations A Station B Station	S,G S S S S S S S S S S S S S S S S S S	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 252·000 192·000 6·500 26·500 360·250 2,000·000 70·000 70·000	MW s.o. 6,296 336 120 168 197 240 236 180 5 27 360 1,880 68 90 68	2x124 3x60 4x64 4x63	41·4/103·4 41·4 62·1 62·1 62·1 62·1 41·4	°C  454/538 454 482 482 482 482 454  566 454	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 315·0 228·0  1,740·0 117·0	PF PF OF PF PF PF PF	R(T) R(T) R(T) S C R(T) ES(T)	11 GW h 23,814·317 1,084·487 74·363 534·108 Cr. 1·528 866·751 302·404 299·391 10·285 65·675 { 36·770 - 525·090 ◆ 12,317·212 0·366 20·152 1·815	per cent 41·9 36·8 7·1 36·3	per cent 29·51 30·27 21·20 26·66 26·63 22·83 23·82 34·16 20·52 20·45 21·99
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood Heysham Huncoat	n Region 4, sites 23 C Stations A Station B Station	S,G SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 252·000 192·000 6·500 26·500 360·250 2,000·000 70·000 96·000 160·000	MW s.o. 6,296 336 120 168 197 240 236 180 5 27 360 1,880 68 90 68 150	2x124 3x60 4x64 4x63 4x90 4x500	bar 41·4/103·4 41·4 62·1 62·1 62·1 41·4 158·6 41·4	°C  454/538 454 482 482 482 482 484 485	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 315·0 228·0	PF PF PF OF PF PF	R(T) R(T) R(T) S C R(T) ES(T)	GW h  23,814·317  1,084·487  74·363 534·108 Cr. 1·528 866·751 302·404 299·391 10·285 65·675 336·770 - 525·090 12,317·212 0·366 20·152	per cent 41·9  36·8 7·1 36·3 - 41·2 14·6 19·0 23·5 27·8 10·7  74·8 0·1 2·6 0·3 11·3	per cent 29·51 30·27 21·20 26·66 - 26·63 22·83 23·82 - - - 34·16 20·52 20·45 21·99 22·31
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood Heysham Huncoat Ince	n Region 4, sites 23 C Stations A Station B Station	S,G SSSSSHHPS,D SGSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 252·000 192·000 6·500 26·500 360·250 2,000·000 70·000 70·000	MW s.o. 6,296 336 120 168 197 240 236 180 5 27 360 1,880 68 90 68	2x124 3x60 4x64 4x63	41·4/103·4 41·4 62·1 62·1 62·1 62·1 41·4	°C 454/538 454 482 482 482 454 5566 454 454	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 228·0 1,740·0 117·0 195·0	PF PF PF OF PF PF	R(T) R(T) R(T) S C R(T) ES(T)	GW h  23,814·317  1,084·487  74·363 534·108 Cr. 1·528 866·751 302·404 299·391 10·285 65·675 336·770 - 525·090 12,317·212 0·366 20·152 1·815 148·534 Cr. 2·636 0·934	per cent 41·9 36·8 7·1 36·3	per cent 29·51 30·27 21·20 26·66 - 26·63 22·83 23·82 - - - - 34·16 20·52 20·45 21·99 22·54
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood Heysham Huncoat Ince	n Region 4, sites 23 C Stations A Station B Station	S,G SSSSSHHPS,D SGSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 256·000 6·500 26·500 360·250 2,000·000 70·000 190·000 150·000 150·000 113·372	MW s.o. 6,296  336 120 168 197 240 236 180 5 27 360 1,880 68 90 68 150 240 50 110	2x124 3x60 4x64 4x63 4x90 4x500	bar 41·4/103·4 41·4 62·1 62·1 62·1 41·4 158·6 41·4	°C 454/538 454 482 482 482 454 5566 454 454	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 228·0 1,740·0 117·0 195·0	PF PF PF OF PF PF	R(T) R(T) R(T) S C R(T) ES(T)	GW h  23,814·317  1,084·487  74·363 534·108  Cr. 1·528 866·751 302·404 299·391 10·285 65·675 336·770 - 525·090  12,317·212 0·366 20·152 1·815 148·534  Cr. 2·636 0·934  Cr. 0·300	per cent 41·9  36·8 7·1 36·3  41·2 14·6 19·0 23·5 27·8 10·7 74·8 0·1 2·6 0·3 11·3  0·2	per cent 29·51 30·27 21·20 26·66 26·63 22·83 23·82 34·16 20·52 20·45 21·99 22·31 22·54
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood Heysham Huncoat Ince	n Region 4, sites 23 C Stations A Station B Station	S,G SSSSHHPS,D SGSGSOG,D	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 255·000 192·000 6·500 26·500 360·250 2,000·000 70·000 160·000 252·000 113·372 24·000	MW s.o. 6,296  336 120 168 197 240 236 180 5 27 360 1,880 68 90 68 150 240 50 1110 24	2x124 3x60 4x64 4x63 4x90 4x500	bar  41·4/103·4 41·4 62·1 62·1 62·1 41·4 158·6 41·4 41·4 62·1	°C  454/538 454 482 482 482 454 566 454 454 482	kg/s  4,757·0  360·0 152·0 207·0 304·0 315·0 228·0  1,740·0  117·0 195·0 276·0	PF PF OF PF PF PF	R(T) R(T) R(T) S C R(T) ES(T)	GW h  23,814·317  1,084·487 74·363 534·108  Cr. 1·528 866·751 302·404 229·391 10·285 65·675 336·770 -525·090 12,317·212 0·366 20·152 1·815 148·534 Cr. 2·636 0·934 Cr. 0·300 57·152	per cent 41·9  36·8 7·1 36·3  41·2 14·6 19·0 23·5 27·8 10·7  74·8 0·1 2·6 0·3 11·3  — 0·2 — 27·2	per cent 29·51 30·27 21·20 26·66
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood Heysham Huncoat Ince Lister Drive Maentwrog Padiham	n Region 4, sites 23 C Stations A Station B Station	S,G SSSSSHHPS,D SGSGG,D HS,SO,	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 256·000 6·500 26·500 360·250 2,000·000 70·000 96·000 252·000 113·372 24·000 G 240·325	MW s.o. 6,296 336 120 168 197 240 236 180 5 27 360 1,880 68 90 68 90 10 240 50 110 24 224	2x124 3x60 4x64 4x63 4x90 4x500	bar 41·4/103·4 41·4 62·1 62·1 62·1 41·4 158·6 41·4	°C 454/538 454 482 482 482 454 5566 454 454	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 228·0 1,740·0 117·0 195·0	PF PF PF OF PF PF	R(T) R(T) R(T) S C R(T) ES(T)	GW h  23,814·317  1,084·487 74·363 534·108  Cr. 1·528 866·751 302·404 2299·391 10·285 66·675 336·770 - 525·090 12,317·212 0·366 20·152 1·815 148·534  Cr. 2·636 0·934  Cr. 0·300 57·152 623·002	per cent 41·9  36·8 7·1 36·3 — 41·2 14·6 19·0 23·5 27·8 10·7  74·8 0·1 2·6 0·3 11·3 — 0·2 — 27·2 31·7	per cent 29·51 30·27 21·20 26·66 26·63 22·83 23·82 34·16 20·52 20·45 21·99 22·31 22·54
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood Heysham Huncoat Ince Lister Drive Maentwrog Padiham Rheidol	n Region 4, sites 23 C Stations A Station B Station	S,G SSSS SSSH H PS, D SGSSG, D S,SO,	MW Gen. 6,826·597 358·325 128·000 180·000 256·000 256·000 6·500 360·250 2,000·000 70·000 96·000 70·000 180·000 113·372 24·000 64·325 53·125	MW s.o. 6,296  336 120 168 197 240 236 180 5 27 360  1,880 68 90 68 150 240 50 110 24 224 53	2x124 3x60 4x64 4x63 4x90 4x500	158-6 41-4 103-4 103-4	°C  454/538 454 482 482 482 454 566 454 454 482	kg/s  4,757·0  360·0 152·0 207·0 304·0 315·0 228·0  1,740·0  117·0 195·0 276·0	PF PF OF PF PF PF	R(T) R(T) R(T) S C R(T) ES(T)	GW h  23,814·317  1,084·487 74·363 534·108  Cr. 1·528 866·751 302·404 229·391 10·285 65·675 336·770 -525·090 12,317·212 0·366 20·152 1·815 148·534 Cr. 2·636 0·934 Cr. 0·300 57·152	per cent 41·9  36·8 7·1 36·3  41·2 14·6 19·0 23·5 27·8 10·7  74·8 0·1 2·6 0·3 11·3  — 0·2 — 27·2	per cent 29·51 30·27 21·20 26·66
North Western Total stations 24 Agecroft B & C Bold  Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood Heysham Huncoat Ince Lister Drive Maentwrog Padiham Rheidol Roosecote	n Region 4, sites 23 C Stations A Station B Station	S,G SSSSSSHHPS,D SGSGG,D HS,SO,	MW Gen. 6,826·597 358·325 128·000 205·000 256·000 256·000 26·500 360·250 2,000·000 70·000 160·000 252·000 50·800 113·372 24·000 G 240·325 53·125 128·000	MW s.o. 6,296  336 120 168 197 240 236 180 5 27 360  1,880 68 90 68 150 240 50 110 24 224 53 120	2x124 3x60 4x64 4x63 4x90 4x500	bar  41·4/103·4 41·4 62·1 62·1 62·1 41·4 158·6 41·4 41·4 62·1	°C  454/538 454 482 482 482 484 454 454 454 454 458	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 315·0 228·0 1,740·0 195·0 276·0	PF PF PF PF OF PF PF PF PF PF PF	R(T) R(T) R(T) S C R(T) ES(T) E(T) S(T) C(T) R(T)	GW h  23,814·317  1,084·487 74·363 534·108  Cr. 1·528 866·751 302·404 299·391 10·285 65·675 336·770 - 525·090  12,317·212 0·366 20·152 1·815 148·534  Cr. 2·636 0·934  Cr. 0·300 57·152 623·002 109·446 87·536 1,148·253	per cent 41·9  36·8 7·1 36·3  41·2 14·6 19·0 23·5 27·8 10·7  74·8 0·1 2·6 0·3 11·3  - 0·2 - 27·2 31·7 23·6 8·3 33·6	per cent 29·51 30·27 21·20 26·66 26·63 22·83 23·82 34·16 20·52 20·45 21·99 22·31 22·54 31·88 21·96 23·54
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood Heysham Huncoat Ince Lister Drive Maentwrog Padiham Rheidol	n Region 4, sites 23 C Stations A Station B Station	S,G SSSS SSSH H PS, D SGSSG, D S,SO,	MW Gen. 6,826·597 358·325 128·000 180·000 256·000 256·000 6·500 360·250 2,000·000 70·000 96·000 70·000 180·000 113·372 24·000 64·325 53·125	MW s.o. 6,296  336 120 168 197 240 236 180 5 27 360 1,880 68 90 68 150 240 50 1110 24 224 53 120 390	2x124 3x60 4x64 4x63 4x90 4x500 4x63 2x120	bar  41·4/103·4 41·4 62·1 62·1 62·1 41·4  158·6 41·4 41·4 62·1  103·4 41·4 20·0/63·9 41·4	°C  454/538 454 482 482 482 454 566 454 454 482 538 454 363/379 454	kg/s 4,757·0 360·0 152·0 207·0 304·0 315·0 315·0 228·0 1,740·0 195·0 276·0	PF PF PF PF PF OF PF	R(T) R(T) R(T) S C R(T) ES(T) E(T) S(T) C(T) R(T)	GW h  23,814·317  1,084·487 74·363 534·108  Cr. 1·528 866·751 302·404 2299·391 10·285 65·675 { 336·770 - 525·090 ◆ 12,317·212 0·366 20·152 1·815 148·534  Cr. 2·636 0·934 Cr. 0·300 57·152 623·002 109·446 87·536 1,148·253 205·861	per cent 41·9  36·8 7·1 36·3 - 41·2 14·6 19·0 23·5 27·8 10·7  74·8 0·1 2·6 0·3 11·3 - 0·2 - 27·2 31·7 23·6 8·3 33·6 19·6	per cent 29·51 30·27 21·20 26·66 26·63 22·83 23·82 34·16 20·52 20·45 21·99 22·31 22·54 31·88 21·96 23·54 21·09
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood Heysham Huncoat Ince Lister Drive Maentwrog Padiham Rheidol Roosecote Trawsfynydd	n Region 4, sites 23 C Stations A Station B Station	S, G SSSSHH PS, D SGSGG, HS, SO, HS, N, D	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 255·000 192·000 6·500 26·500 70·000 70·000 160·000 50:800 113·372 24·000 63·125 128·000 474·800	MW s.o. 6,296  336 120 168 197 240 236 180 5 27 360 1,880 68 90 68 150 240 50 110 24 224 53 120 390 120	2x124 3x60 4x64 4x63 4x90 4x500 4x63	bar  41·4/103·4 41·4 62·1 62·1 62·1 41·4 158·6 41·4 41·4 62·1 103·4 41·4 20·0/63·9	°C  454/538 454 482 482 482 454 566 454 454 482 538 454 363/379	kg/s  4,757·0  360·0 152·0 207·0 304·0 315·0 228·0  1,740·0  117·0 195·0 276·0  216·0  152·0	PF PF PF PF OF PF PF PF PF PF PF	R(T) R(T) R(T) S C R(T) ES(T) E(T) S(T) C(T) R(T)	GW h  23,814·317  1,084·487 74·363 534·108  Cr. 1·528 866·751 302·404 299·391 10·285 65·675 336·770 - 525·090  12,317·212 0·366 20·152 1·815 148·534  Cr. 2·636 0·934  Cr. 0·300 57·152 623·002 109·446 87·536 1,148·253	per cent 41·9  36·8 7·1 36·3  41·2 14·6 19·0 23·5 27·8 10·7  74·8 0·1 2·6 0·3 11·3  - 0·2 - 27·2 31·7 23·6 8·3 33·6	per cent 29·51 30·27 21·20 26·66 26·63 22·83 23·82 34·16 20·52 20·45 21·99 22·31 22·54 31·88 21·96 23·54
North Western Total stations 24 Agecroft B & C Bold Bromborough Carrington Chadderton Connah's Quay Cwm Dyli Dolgarrog Ffestiniog Fiddler's Ferry Fleetwood Heysham Huncoat Ince Lister Drive Maentwrog Padiham Rheidol Roosecote Trawsfynydd Westwood	n Region 4, sites 23 C Stations A Station B Station	S,G SSSSSHHPS,D SGSGS,D SN,D SN,D SN,G	MW Gen. 6,826·597 358·325 128·000 180·000 205·000 252·000 192·000 6·500 26·500 360·250 2,000·000 70·000 160·000 252·000 113·372 24·000 G 240·325 53·125 128·000 474·800	MW s.o. 6,296  336 120 168 197 240 236 180 5 27 360 1,880 68 90 68 150 240 50 110 24 224 53 120 390 120	2x124 3x60 4x64 4x63 4x90 4x500 4x63 2x120	bar  41·4/103·4 41·4 62·1 62·1 62·1 41·4  158·6 41·4 41·4 62·1  103·4 41·4 20·0/63·9 41·4	°C  454/538 454 482 482 482 454 566 454 454 482 538 454 363/379 454	kg/s  4,757·0  360·0 152·0 207·0 304·0 315·0 228·0  1,740·0  117·0 195·0 276·0  216·0  152·0	PF PF PF PF OF PF PF PF PF PF PF	R(T) R(T) R(T) S C R(T) ES(T) E(T) S(T) C(T) R(T)	GW h  23,814·317  1,084·487 74·363 534·108  Cr. 1·528 866·751 302·404 2299·391 10·285 65·675 { 336·770 - 525·090 ◆ 12,317·212 0·366 20·152 1·815 148·534  Cr. 2·636 0·934 Cr. 0·300 57·152 623·002 109·446 87·536 1,148·253 205·861	per cent 41·9  36·8 7·1 36·3 - 41·2 14·6 19·0 23·5 27·8 10·7  74·8 0·1 2·6 0·3 11·3 - 0·2 - 27·2 31·7 23·6 8·3 33·6 19·6	per cent 29·51 30·27 21·20 26·66 26·63 22·83 23·82 34·16 20·52 20·45 21·99 22·31 22·54 31·88 21·96 23·54 21·09

<sup>◆</sup> This figure is the GW h imported from the system at Ffestiniog for pumping purposes.

## 5 Steam-driven generating sets: number, age and declared gross capability at 31 March 1981 (including generating sets in nuclear stations)

Year of commissioning	Age at 31 March 1981	Unde 30 M		30 MV and u 60 MV	nder	60 MV and ur 100 M	der	100 M and 0 500 M	ınder	500 M and o	10.7	Total	
	Years	No.	MW Gen	No.	MW Gen	No.	MW Gen	No.	MW Gen	No.	Mw Gen	No.	Mw Gen
1976-81	Under 5	-	-	77.0	_	-	-	-	-	6	3,033	6	3.033.000
1971-75	5 and under 10	100	_	-	_	-	-	6	1,655	20	10,189	26	11,844 - 000
1966-70	10 and under 15	-	-	1	40.00	+++	-	9	2,482	27	13,144	37	15,666 - 000
1961-65	15 and under 20	3	60-741	10	327-26	10	773-0	49	7,424	2	1,000	74	9,585.001
1956-60	20 and under 25	3	30-000	20	640 - 50	69	4,224.5	33	3,924	-	-	125	8,819-000
Since 1956	Sets under 25 years	6	90.741	31	1,007-76	79	4,997-5	97	15,485	55	27,366	268	48,947 · 001
Before 1956	Sets 25 years and over	3	8.700	105	4,262-50	54	3,343-0	1	100	722	_	163	7,714 · 200
Total		9	99 - 441	136	5,270-26	133	8,340-5	98	15,585	55	27,366	431	56,661 - 201

## 6 Boilers: number, age and declared gross capability at 31 March 1981 (excluding boilers in nuclear stations)

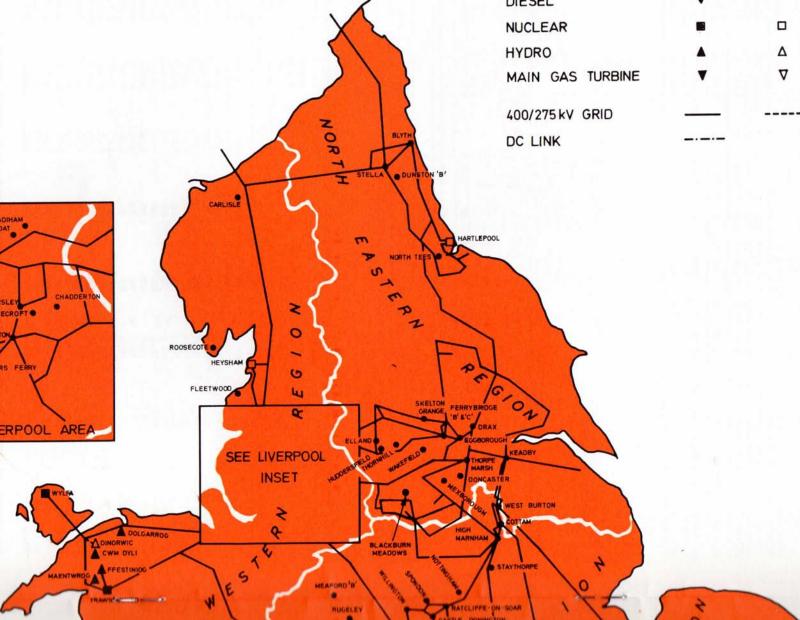
Year of commissioning	Age at 31 March 1981	Und 25 k		25 kg and u 50 kg	inder	50 kg and u 75 kg	inder	75 kg and t 100 k	inder	100 k and t 375 k	under	375 k and c	-	Total	ı
	Years	No.	kg/s	No.	kg/s	No.	kg/s	No.	kg/s	No.	kg/s	No.	kg/s	No.	kg/s
1976-81	Under 5	-	-	-	-	-	_	-	-	-	_	4	1,618-0	4	1,618-0
1971-75	5 and under 10	-	3 <del>44</del>	-	_	-	-	-		2	563.0	20	8,857.0	22	9,420.0
1966-70	10 and under 15	2	5.0	_	-	-	-	-	-	5	1,315.0	27	11,623.0	34	12,943.0
1961-65	15 and under 20	-	_	_	-	_	_	5	471-5	36	5,328.0	2	890.0	43	6,689-5
1956-60	20 and under 25	19	308.0	41	1,544.0	52	3,581-6	5	478-0	28	3,198.0	37		145	9,109-6
Since 1956	Boilers under 25 years	21	313-0	41	1,544-0	52	3,581-6	10	949-5	71	10,404 · 0	53	22,988 · 0	248	39,780 · 1
Before 1956	Boilers 25 years and over	29	667-0	204	7,551-0	37	2,337-6	-	-	-	i Test	-	-	270	10,555-6
Total		50	980-0	245	9,095.0	89	5,919-2	10	949-5	71	10,404-0	53	22,988.0	518	50,335 · 7

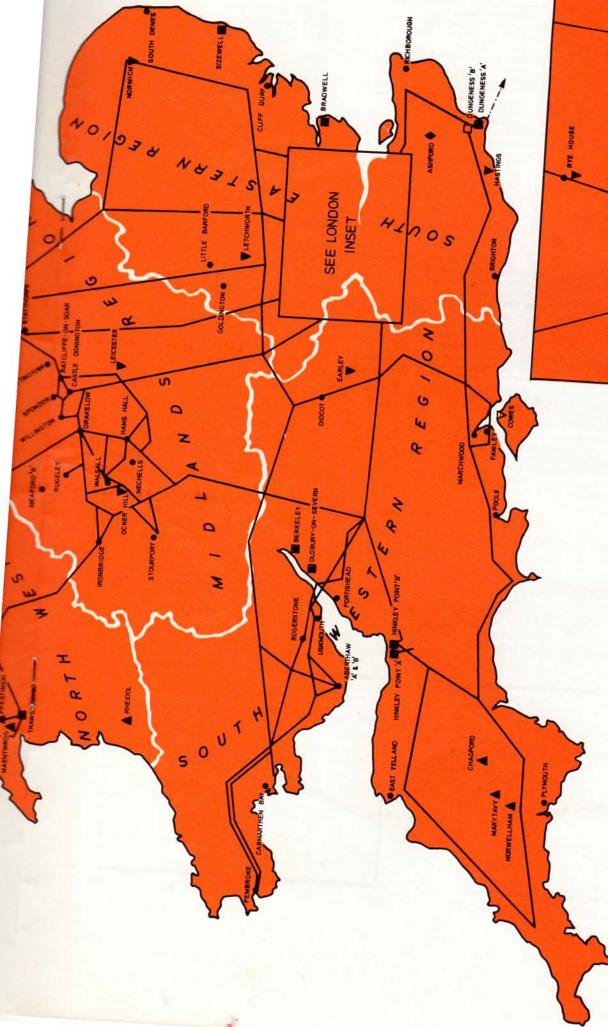
#### 7 Coal, gas and oil-fired steam power stations: 20 with highest thermal efficiency 1980-81

Power stations (or sections)	Region	Steam pressure at turbine stop-valve	Steam temperature at turbine stop-valve and re-heat	Declared net capability at 31 March 1981	Electricity ▼ supplied from station 1980-81	Average load as percentage of average declared net capability	Average calorific value of all fuel burnt	Average thermal efficiency	Generating plant brought into operation
		bar	°C	MW s.o.	GWh	per cent	kJ/kg	per cent	
Rugeley B	M	158 • 6	566	920	6,725	83 · 4	23,232	35-47	1972
Drax	NE	158 • 6	565	1,875	10,751	65.5	23,766	35-29	1974-76
Ratcliffe-on-Soar	M	158-6	566	1,932	13,886	82.0	23,372	35-09	1968-70
Ferrybridge C	NE	158-6	565	1,932	13,111	77.5	23,825	35-03	1966-68
Cottam	M	158-6	566	1.840	10,931	67.8	24,336	34-25	1969-70
Fawley O	SW	158 • 6	566	1,932	5,272	31 · 1	42,591	34-24	1969-71
West Burton	M	158 - 6	566	1,840	11,571	71.8	24,429	34-21	1967-68
Fiddler's Ferry	NW	158-6	566	1,880	12,317	74.8	25,471	34 · 16	1971-73
Pembroke O	SW	158 • 6	538	1,900	4,468	26.8	43,032	34.07	1970-73
Eggborough	NE	158 · 6	566	1,720	10,112	67 · 1	23,606	33-61	1968-69
Ironbridge B	M	158 · 6	566	920	5,286	65.6	24,387	33 · 13	1970
Blyth A	NE	103 · 4	538	448	2,979	75.9	24,117	33 · 12	1958-60
Aberthaw B	SW	158 - 6	566	1,310	5,620	52.3	26,652	32.72	1971-79
Kingsnorth �	SE	158 · 6	538	1,920	8,741	52.0	28,665	32.53	1970-73
Staythorpe B	M	103 · 4	538	336	1,963	66.7	23,941	32.02	1960-61
Padiham B ◆	NW	103-4	538	224	623	31.7	26,737	31-88	1962
Willington B	M	162.0	566	376	2,053	62.3	24,274	31.74	1962-63
West Thurrock ◆	SE	162 • 0 / 158 • 6	566	1,240	4,264	39.3	25,306	31.31	1963-65
Ferrybridge B	NE	158 · 6	566	282	1,761	71.3	23,205	31-29	1957-59
Thorpe Marsh	NE	158-6	566	942	4,012	48-6	24,292	31 · 19	1963-65
Total or average for above 20 Total or average for correspond		ons 1979-80		25,769 27,160	136,444 142,194	60·6 59·6	25,266 25,159	33·90 33·74	
•		0.10 10.10 00		V220 W (8250)	INCOME TO SERVICE AND ADDRESS OF THE PERSON	1562-0-170.	PRODUCTION OF THE PRODUCTION O	122 (22)	
Total or average for all steam		00		48,743	188,724	43.9	25,145	32 · 18	
Total or average for all steam	stations 1979	J-8U		49,207	196,007	45.3	25,451	31.68	

#### Note

- Average load is the number of GW h supplied during the year divided by the number of hours in the year (8,760): the average declared net capability is the daily average for the whole year.
- ▼ Excluding electricity supplied from station on pre-commissioning operation
- O Oil burning
- Dual-fired station
- Mixed-fired station





### 9 Fossil-fired power stations: operating results, costs of generation, employees, 1976-77 to 1980-81

1976-77	1977-78	1978-79	1979-80			1979-80	1980-81
				Operating results			
70,330	70,004	75,240	80,367	Coal and all other solid fuel	k tonne		79,460
97.33	97 · 19	98-42	98.35	Percentage of coal pulverized	per cent		99.56
8,074	9,075	9,736	6,839	Oil	k tonne		4,523
14,049	16,336	17,524	12,310	Oil (coal equivalent)	k tonne*		8,141
974	952	242	382	Gas	k tonne		_
2,045	2,095	533	841	Gas (coal equivalent)	k tonne*		
79,378	80,031	85,218	87,588	Total fuel ▲	k tonne		83,983
86,424	88,435	93,297	93,518	Total fuel ▲ (coal equivalent)	k tonne*		87,601
26-239	26 · 404	26 · 195	25.470	Average calorific value of all fuel	GJ/tonne		25 - 151
54,126	52,521	52,139	52,186	Average declared net capability	MW s.o.		51,930
182,646	184,775	197,312	196,233	Total electricity supplied	GW h		188,768
31.57	31 · 48	31.82	31-67	Average thermal efficiency	per cent		32 · 17
				'Generation employees' at conventional steam pow	er stations		
5,374	5,129	5,185	5,160	Non-industrial staff ◆			5,029
13,602	12,953	12,733	12,520	Industrial staff on operation •			11,589
12,026	11,626	11,780	11,946	Industrial staff on repair and maintenance ◆			11,613
31,002	29,708	29,698	29,626	Total staff ◆			28,231
0.57	0.57	0.57	0.57	No. 'generation employees' per MW s.o.			0.54
5.9	6.2	6.6	6.6	GW h per 'generation employee' O			6.7
						Curre	nt cost
-	Historic acc	ounting basis	<b>→</b>	Works cost per kW h of electricity supplied		← accoun	ting basis →
0.9048	1.0680	1.1182	1.3634	Fuel including transport	p/kWh	1.4004	1 - 6498
0.0369	0.0405	0.0488	0.0619	Fuel handling, etc. Ø	p/kWh	0.0347	0.0424
0.9417	1 · 1085	1.1670	1.4253	Inclusive fuel cost	p/kWh	1 - 4351	1-6922
0.0491	0.0515	0.0568	0.0666	Operation (excluding fuel and handling)	p/kW h	0-0681	0.0828
0.0973	0.1091	0.1213	0.1432	Repairs and maintenance (excluding fuel and handling)	p/kWh	0-1717	0.2056
1.0881	1-2691	1.3451	1.6351	Total works cost	p/kWh	1.6749	1.9806
				Cost per gigajoule consumed			
79.345	93 · 386	98 · 844	119-928	All fuel (excluding handling, etc.)	p/GJ	123 · 184	147 - 445
82.578	96.930	103 - 161	125 - 375	All fuel (including handling, etc.)	p/GJ	126 - 236	151 - 234

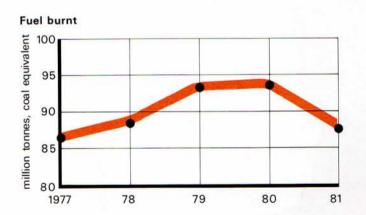
#### Note

One tonne of fuel oil is equivalent to 1.74 tonnes of coal for 1976-77 and to 1.80 tonnes of coal for 1977-78 to 1980-81 One tonne of gas is equivalent to 2·10 tonnes of coal for 1976-77 and to 2·20 tonnes of coal for 1977-78 to 1980-81

▲ Excluding fuel consumed for the production of steam for sale, which totalled some 230 k tonnes (241 ktce) in 1980-81

- 3,600 as a percentage of heat consumed per kWh supplied, including pre-commissioned output. There are 3,600 kJ in a kW h of electricity
- The operation of, and repairs and maintenance to, fuel handling, pulverizing, ash disposal and flue gas treatment plant
- The figures given are averages of end-of-month figures and exclude supervising staff, administrative and clerical employees, canteen employees and other small groups

O Excluding electricity supplied from stations on pre-commissioned operation



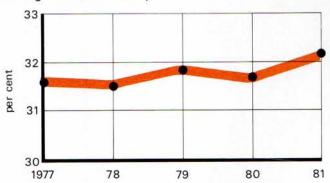
# of employees per MW 0.5 no. 81

79

80

No. of 'generation employees' per megawatt of output capacity

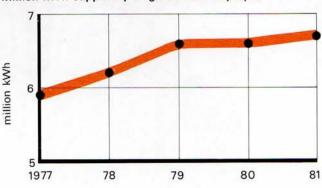




Million kWh supplied per 'generation employee'

78

1977



## 10 Nuclear power stations: operating results, costs of generation, employees 1976-77 to 1980-81

1976-77	1977-78	1978-79	1979-80			1979-80	1980-81
				Operating results			
1,090 - 59	1,016.78	822.87	784 - 70	Net uranium burn-up for generation	tonne		663 - 57
10,723	11,667	10,650	10,897	(coal equivalent)	k tonne		9,772
5,420	3,610	2,794	4,032	Oil burnt in IC engines	tonne		3,043
9	7	5	7	(coal equivalent)	k tonne*		5,045
10,732	11,674	10,655	10,904	Total fuel (coal equivalent)	k tonne*		9,777
3,666	3,855	4,030	4,236	Average declared net capability	MW s.o.		4,437
25,920	27,096	24,750	25,339	Total electricity supplied	GW h		22,717
25.52	26-03	26 · 44	26.78	Average thermal efficiency†	per cent		27.38
				'Generation employees'			
1,020	1,137	1,160	1,165	Non-industrial staff			1,187
1,616	1,747	1,746	1,765	Industrial staff on operation •			1,746
1,203	1,357	1,414	1,438	Industrial staff on repair and maintenance ◆			1,454
3,839	4,241	4,320	4,368	Total staff ◆			4,387
1.05	1-10	1.07	1.03	No. 'generation employees' per MW s.o.			0.99
6-44	5-99	5.73	5.80	GW h per 'generation employee' O			5.18
						Curre	nt cost
-		ounting basis	-	Works cost per kW h of electricity supplied Ø			ting basis →
0.4114	0.3986	0.5339	0.7227	Fuel including transport (uranium/oil)	p/kWh	0.8099	1.0462
0.0098	0.0117	0.0143	0.0167	Fuel handling	p/kWh	0.0167	0.0250
0.4212	0.4103	0.5482	0.7394	Inclusive fuel cost	p/kWh	0.8266	1.0712
0.0616	0.0717	0.0961	0.1131	Operation (excluding fuel and handling)	p/kW h	0.1131	0.1603
0.0570	0.0658	0.1013	0.1352	Repairs and maintenance (excluding fuel and handling)	p/kW h	0 · 1352	0.2182
0.5398	0.5478	0.7456	0.9877	Works costs relating to operation in the year	p/kW h	1.0749	1 · 4497
0.0836	0.0954	0-1580	0-1999	Accounting provisions relating to earlier years	p/kW h	0.2363	0.2646
0-6234	0.6432	0.9036	1 - 1876	Total works cost	p/kW h	1.3112	1.7143
				Cost per gigajoule consumed			
29 - 169	28.817	36.009	53 - 761	All fuel (excluding handling, etc.)	p/GJ	60-247	79-579
29.864	29 - 663	36.974	55.003	All fuel (including handling, etc.)	p/GJ	61 · 490	81 - 480

#### Note

- O Excluding electricity supplied from stations on pre-commissioned operation.

  1976-77—One tonne of fuel oil is equivalent to 1-74 tonnes of coal
  1977-78 to 1990-81—One tonne of fuel oil is equivalent to 1-90 tonnes of co
- 1977-78 to 1980-81—One tonne of fuel oil is equivalent to 1 · 80 tonnes of coal † 3,600 as a percentage of heat consumed per kW h supplied, including precommissioned output. There are 3,600 kJ in a kW h of electricity
- The figures given are averages of end-of-month figures and exclude supervising staff, administrative and clerical employees, canteen employees and other small groups
- Works costs include the accounting costs at all nuclear stations in operation in each year. Inclusive fuel costs incorporate the same cost elements as included under that heading in 'Costs of producing electricity from coal-fired and oil-fired power stations' described in the CEGB Annual Report (appendix 4, para 3f). The two sets of figures are closely related but not strictly comparable due mainly to the effect of excluding the older magnox stations (Berkeley and Bradwell) from the latter presentation and the CCA accounting adjustments in 1979-80 and 1980-81. Accounting provisions relating to earlier years represent mainly the impact of inflation on provisions for reprocessing costs set aside in earlier years. Also included is an accounting adjustment to ensure provision in full for the eventual reprocessing of residual fuel over the lives of the plant remaining when financial provision commenced in March 1976.

#### 11 Fuels consumed

i dels consumed		
	1980-81	1979-80
	Million tonne	s, coal equivalent
Coal	79.68	80-61
Oil fuels ●	8-17	12.34
Gas ▲	_	0.84
Nuclear	9-77	10-90
Total	97-62	104-69

One unit mass of oil is equal to 1.80 units of coal in heat value

▲ One unit mass of gas is equal to 2·20 units of coal in heat value

#### 12 Sources of coal delivered to CEGB

	1980-81	1979-80
ICB Region	Million to	onnes
Scotland		_
North Eastern	10	11
orkshire .	24	24
lorth Midlands	22	21
South Midlands	6	7
Vestern	10	10
outh Wales	3	4
CB source unknown	-	1
otal NCB	75	78
NCB licensed and other UK coals	2	2
oreign coals	4	2
otal	81	82

15	L
	c
	u

Station	Туре	No. of units and design net capability MW s.o.	Year of start on site to probable completion of commissioning
Coal and oil-fired plant			
Drax completion	Coal	3 x 660*	1978-86
Grain	Oil	3 x 660* Ø	1971-83
Ince B	Oil	2 x 500*	1972-82
Littlebrook D	Oil	3 x 660*	1974-83
Nuclear plant			
Dungeness B	AGR	2 x 600	1966-82
Hartlepool	AGR	2 x 660*	1968-83
Heysham I	AGR	2 x 660*	1970-83
Heysham II	AGR	2 x 660	1981-88
Hydro plant			
Dinorwic	Pumped-	6 x 250	1974-83
	storage	(generating mode)	
Main gas-turbine plant			
Bull's Bridge	GT	4 x 70	1976-81
Cowes	GT	2 x 70	1978-82
Total		14,020	

AGR = advanced gas-cooled reactor

#### New power station plant commissioned 1980-81

			Commissioned	Gross capab	ility	Net	Type of
Station	Region	Unit	rating	Turbine	Boiler	capability	fuel
Abethaw B	sw	No. (8) (9)	Addition (c) Addition (c)	MW Gen. 13 132	kg/s - 110	MW s.o. 20 130	Coal Coal
Didcot	sw	(2)	Addition (c)	_	_	5	Coal
Hinkley Point B	sw	(7) Reactor 3	Addition (c)	22	-	20	Nuclear
		(8) Reactor 4	Addition (c)	22	_	20	Nuclear
Littlebrook D	SE	AGT 1	First (a)	35	_	35	Gas oil
		AGT 2	First (a)	35		35	Gas oil
Taylor's Lane	SE	GT 2	First (a)	70	_	70	Gas oil
	27867	GT (3)	Addition (c)	5	_	5	Gas oil
Total		3 (a)		334	110	340	

Plant commissioned in year ended 31 March MW s.o. 3,533 ▼ 1972 5,520 1974 1975 1,735 1976 1977 1,118 1978 57 1979 914 1980 1,209 1981 340

▼ Not included is 2 MW s.o. due to adjustments.

#### Note

- (a) First commissioning at full rating
- (c) Addition to interim rating
- ( ) = units shown in brackets are not included in total as they were accounted for in previous years

AGT = auxiliary gas turbine

The design net capability shown includes auxiliary gas-turbines with the main generating units

Unit 2 is completed and unit 5 has not been released for construction

#### 15 Location of Offices, Regional and Divisional Headquarters, Grid Control Centres and Laboratories



#### Transmission lines, transformers and substations in service at 31 March 1981

On the basis of highest operational voltage

	Main trans	smission line	s								
Region	400 kV		275 kV	275 kV		132 kV		66 kV or lower voltage		Total lines	
	Route km	Circuit km	Route km	Circuit km	Route km	Circuit km	Route km	Circuit km	Route km	Circuit km	
South Eastern	1,024 - 003	1,955-477	460 - 081	800 · 105	249 · 556	425 · 098	43 - 369	69 · 574	1,777 · 009	3,250 · 254	4,523
South Western	1,674-161	3,342 - 725	369-987	633 - 444	62 · 838	89-633	11-539	27 · 049	2,118-525	4,092 · 851	5,982
Midlands	1,045 - 558	1,792-549	313-957	815-925	30-422	38 · 259			1,389 · 937	2,646 · 733	4,005
North Eastern	569-720	949 - 444	732 - 737	1,556 - 008	20.089	34-216	_	_	1,322 · 546	2,539 · 668	4,060
North Western	796-672	1,384.937	263 · 066	616-689	46 · 329	84.306	19-827	19-997	1,125-939	2,105.929	3,438
Total	5,110-114	9,425 · 132	2,139-828	4,422 · 171	409 - 234	671-512	74 · 780	116-620	7,733-956	14,635 - 435	22,008
Overhead lines	5,057 · 015	9,347 · 906	1,764 · 045	3,895-692	225-614	435-215	36-834	38 · 266	7,083-508	13,717 - 079	
Underground cables	53.099	77 · 226	375 ⋅ 783 ◆	526 - 479 ◆	183 · 620 <b>O</b>	236 · 297 0	37-946	78 · 354	650 - 448	918-356	

17 Lengths of transmission lines in operation at 31 March 1980 and 1981

	Overhead lin	es	Underground cables				
	31 March 1981	31 March 1980	31 March 1981	31 March 1980			
	Route km	Route km	Circuit km	Circuit km			
400 kV	5,057	5,048	77-2	65-4			
275 kV	1,764	1,769	526-4	520-4			
132 kV	226	270	236.3	220.4			
66 kV or under	37	37	78.3	78-3			
Total	7,084	7,124	918-2	884-5			
1980-81 variation	0.56 per cen	t decrease	3·81 per cent increase				

O Includes 24.597 route and circuit km of cross-channel submarine cable (to mid-channel) and 7.115 route and circuit km of land cable, direct current 100 kV each pole to earth, 200 kV between poles.

<sup>◆</sup> Includes 80·913 route and circuit km of cable between Kingsnorth—Beddington—Willesden, direct current 266 kV each pole to earth, 532 kV between poles.

Capacity of	main transformers N	MVA				La Cart	
400 kV	275 kV	132 kV	Total	Number of 400 I Transformers	Number of 400 kV and 275 kV Transformers Substations		
	1111		- N			Region	
29,204	17,710	2,237	49,151	161	49	South Eastern	
19,050	7,235	240	26,525	105	41	South Western	
12,130	10,380	615	23,125	80	30	Midlands	
9,510	15,135		24,645	122	51	North Eastern	
16,330	12,800	990	30,120	102	33	North Western	
86,224	63,260	4,082	153,566	570	204	Total	

### 18 Transmission work completed 1980-81

Region		Voltage kV	Overhead km	d lines	Underground cables km		Transf	ormers	0.0	Switchge	ear
			Route	Circuit	Route	Circuit	No.	Capacity of each MVA	No.	Type ◆	R ca N
South Eastern	Barking LV Connections	132		<u></u>	_	0.96	-			_	
South Eastern	Fishergate	132/22	) <u> </u>	_	22	_	1	60	-	_	-
	1 isrier gate	33	_	_		_			1	OCB <sub>0</sub>	1
	Grain	400	=	-	=	-	-1	2,000 MVAr (SR)		- There	
		400		_	_		-	-	1	ACB	3
	Kemsley - Beddington	400/275	-	_	11-68	11.68	-	-	1	ACB <sub>0</sub>	15
	Kemsley - Beddington	275	0.28	0.28	-	-	-	-	2 - 2	_	-
	Littlebrook D O		_	_	-	-	4	750	-	_	-
	Entire Dioon D	400	_	_	0.90	0.90	-	-	6	GCB <sub>0</sub>	35
		275	2.26	3.08	- 00	_	_	-	-	_	-
		400/132	_		22	_	1	240	$\rightarrow$	_	-
		132	_	22	0.49	0.49	20	(2)	1	GCBo	5,
		400	8-15	8 · 15	_ 10	_	_	_	2	GCBo	3
	Rayleigh - Tilbury - Kingsnorth	400	0.46	0.46	-	-	-	_	_	_	-
	148	075						_	1	ACB	1
South Western	Whitson	275	-	777	77	A=-	1	750	_	ACB	_
		400/275		_ 07	140	() <del>-</del> , 2		750		-	
	Tee into Whitson	400	0.07	0.07	100	-	-	_	1	VCB	3
	East Yelland	132	_	-	-	_		-	L	VCB	3,
Midlands	Ironbridge	400	_	-	-	-	1	240	1	ACB	3
	10.7M3079.50	132	0.24	0.24	_	-	-	-	1	GCB	4
	Hams Hall C	132	2	_	_	-2	-	-	1	ACB <sub>0</sub>	3
	Grendon	132	240	120	_	-	-	-	7	OCB <sub>0</sub>	5
	Patent Shaft Steelworks (D)	275	0.34	0.34	_	_	2	100	-	-	-
	Lincoln-Wold Newton (D)	132	3-887	7-774	-	_	_	-	-	-	-
North Eastern	Blyth	275	-	_	_	-	2	240	_	_	2.7
	Hawthorn Pit	275	-	-	0.27	0.27	-	_	1	ACB	1
	Lackenby (D)	275/66	-	-		-	1	120	_	-	17-
	Norton	275	-	-	0.21	0.21	-	-	1	SF6	1
	Hawthorn Pit-Norton	275	-	27.53	-	-			750	- T	-
	Saltholme •	275/132	0.50	0.50	_	_	2	240	1	SF6	1
		132	<del></del> >	-	0.40	0.80	-	<del>-</del>	-	-	
	Wilton	275/66		-	1-00	1.00	1	180	=		65
	Wincobank •	275/33	-	-	0.20	0-40	2	100	1	SF6	1
	West Bolden	275/66	-	-	_	-	1	120	-	-	) -
North Western	Capenhurst A-Ince A	132	0.80	0.80	_	27	1-3	-	-	-	-
	Ince B	400	-	-	-	_	-	-	1	ACB <sub>0</sub>	1
	Fiddler's Ferry	275	_	-	-	_	. = .	_	1	SF6	1
	Pentir	400	-	-	-	7	-	-	1	GCBo	3
		400	-	-	-	772	1	200 MVAr (QB)	-	_	
	Pentir - Dinorwic	400		_	10.75	10.75	_		_	_	
		700	-		10 /3	10 70					

Note
O New substation commissioned

(D) Disconnected Transformer type equipment:

SR = Series reactor

◆ Type of switchgear

OCBo = Oil circuit breaker, outdoor

ACBo = Air circuit breaker, outdoor

GCBo = Gas circuit breaker, outdoor

SE6 = Sulphur hexafluoride circuit breaker

VCB = Vacuum circuit breaker

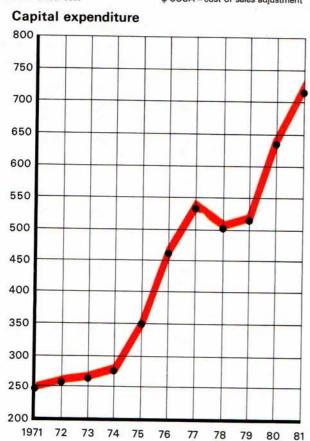
## 19 Financial statistics 1957-58, 1967-68 and 1977-78 to 1980-81

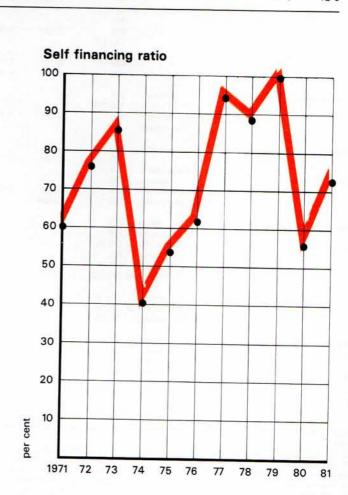
		19	1957-58	1967-68	1977-78	1978-79	1979-80	1979-80	1980-81
1	Basis of accounting		нс	нс	нс	нс	нс		726273
2	(a) Property, plant and equipment	£m	974-0	2,957 · 2	4,053-1	4,236-5	4,751.0	CCA 18,644 · 4	CCA 20,837·7
	Less depreciation, etc. (b) Initial fuel, nuclear stations	£m	959 · 9	3,035-3	3,885 · 4	4,081 · 2	4,353 · 4	18,010-2	20,011-0
	Less amounts written off (c) Interest in subsidiary companies	£m	-	57-3	126-2	121-9	124-3	482 · 4	589-3
	Less amounts written off	£m	0.5	0.4					
	(d) Trade investments	£m	2000	17.00	0.5	0.7	1.0	_	
	(e) Balance of consideration				0.5	0-7	1.0	1.0	2.9
	Less amounts written off	£m	24.5	4.5					
	(f) Net current assets	£m	- 10.9	- 140-3	41.0	32.7	070.0	_	
3	Financed from	Sevicial.	100	140 3	41.0	32.7	272-3	150 · 8	234.5
	(a) Borrowing	£m	924.0	2,727.6	2 470 7	0 470 0			
	(b) Reserves	£m	50.0	229.6	3,476.7	3,479-6	3,920 - 2	3,920 - 2	4,163-8
4	Average capital employed (i.e. net assets)	£m	902.7		576-4	756-9	830.8	14,724 - 2	16,673-9
5	Sales of electricity (to Area Boards and direct consumers)	mn.kW h		2,821.0	3,954 - 1	4,144-8	4,493.8	13,429 - 7	15,812.9
6	Average revenue from sales of electricity	min.kvv n	79,285	159,035	209,828	219,647	218,662	218,662	209,240
	(to Area Boards and direct consumers)	- (1344)	0.000	50 Sean					100
7	Income	p/kW h	0.4264	0.5354	1-6848	1.8368	2 · 1387	2 · 1387	2-6416
8	Expenditure	£m	340.3	858 - 1	3,546.4	4,047.3	4,692.7	4,692.7	5,547.3
9	Profit after interest and MWCA+	£m	327-2	848.9	3,527 - 7	3,981-5	4,739.9	4,980 - 2	5.828-6
10	Interest included in (8)	£m	13.1	9.3	18-7	65.8	-47.2	- 287 - 5	- 281 · 3
11	MWCA+ included in (8)	£m	35.2	141-9	297 - 1	297 · 1	346-5	362-2	449.0
12	Net and included in (8)	£m	_	-	-	-		-5.0	22.4
	Net earnings (9 + 10 + 11)	£m	48.3	151-2	315.8	362.9	299.3	69.7	
13	Depreciation	£m	38 · 1	160 - 2	386.0	406.6	429-3	593 · 8	190 - 1
14	Increase in provisions	£m	-	2.6	78-2	133.7	151.3		708-4
15	Gross earnings (12+13+14)	£m	86.4	314.0	780 - 0	903-2	879-9	81.2	74-1
16	Profit after interest and MWCA+ (9)/Average capital employed (4)	per cent	1.4	0.3	A-050055	(2000 C)		744-7	972-6
17	Interest (10)/Average capital employed (4)	per cent	3.9	5.0	0.5	1.6	-1.1	-2.1	-1.8
18	Net earnings (12)/Average capital employed (4)	per cent	7.00		7.5	7.2	7-7	2.7	2.8
19	Income (7)/Average capital employed (4)		5.3	5.4	8-0	8.8	6.7	0.5	1.2
20	Net earnings (12)/Income (7)	per cent	37.7	30-4	89-7	97.6	104-4	34.9	35 - 1
21	Capital Expenditure	per cent	14.2	17-6	8-9	9.0	6.4	1.5	3.4
22	Changes in trade investments and subsidiary companies	£m	157-9	432.7	501.2	515-2	602 · 4	634 · 6	713.0
23	Working capital changes	£m	-	-	0.1	0.2	0.3	0.2	1.9
	Capital requirements (21 + 22 + 23)	£m	- 16-2	2.7	102-5	125-4	390.9	300.3	171.3
25	Financed from borrowing, etc.	£m	141.7	435 · 4	603.8	640.8	993-6	935 1	886-2
	Passists from borrowing, etc.	£m	84.6	263 - 1	70.5	2.9	440.5	440.5	243.6
	Receipts from lessors	£m	-	_	43.5	24.3	11.4	11.3	41.4
	Transfers between Boards, etc.	£m	5.9	0.2	6.9	7.5	8.3	DATE OF THE PARTY.	-11.00.000
	COSA‡	£m	_	_	_	, ,	0.3	8-2	6.9
29	Financed from regular internal sources (9 + 11 + 13 + 14 + 26 + 27 + 28)	£m	57.1	470.0				92.6	70.7
30	Self-financing ratio		57-1	172.3	533-3	637.9	553 · 1	494.6	642.6
		per cent	40.3	39.6	88.3	99.5	55.7	52.9	72.5

CCA = current cost accounting HC = historical cost

+ MWCA = monetary working capital adjustment

<sup>#</sup> COSA = cost of sales adjustment





#### 20 Partial indicators of performance 1958-59 and 1962-63 to 1980-81

_			1958-59	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71
	Comparisons of CEGB costs and fossil fuel price											
1		pence	0-4153	0.4293	0-4416	0.4584	0.4740	0.5210	0.5304	0.5357	0.5311	0.5964
2	Fossil fuel price	p/GJ	16-144	16-656	16.751	16-871	16-937	18-539	18-994	19-155	19-648	23 - 212
3	Retail Price Index (RPI)		100-0	109-9	111-5	116-0	121-6	126 - 1	129.0	136 - 2	143.2	153-5
4	Total costs per kW h/RPI (average)		100-0	94-1	95.3	95 · 1	93.9	99.5	99.0	94.7	89-3	93.6
5	Fuel price per p/GJ/RPI (average)		100-0	93.9	93.0	90-1	86-3	91.0	91.2	87-1	85.0	93.7
	Manpower productivity											
6	Employees per megawatt of declared net capability (DNC	)	2.27	1.94	1.95	2.00	2.08	2.09	1.91	1.71	1.56	1.43
7	[[[[[[] [[] [[] [[] [[] [[] [[] [[] [] [	mn.kW h		2.078	2.040	2.056	1.935	1.905	2.036	2.269	2.479	2.649
8*	Employees per megawatt of DNC (1958-59 = 100)		100-0	85 40	86.02	87.91	91.79	91.83	83-91	75.36	68 - 53	62.81
9*			100-0	128-03	125-69	126 - 68	119-22	117-38	125-45	139 - 80	152.74	163-22
	Plant availability											
10*	Mean availability of coal- and oil-fired 500-660 MW single- shaft generating units at times of daily peak for working days for winter period (Dec. Jan. Feb.)	per cent	_	_	_	_	_	_	_	56∙3	53-9	62.8
	System thermal efficiency of fossil-fired plant											
11*	Coal-, gas- and oil-fired steam stations, diesel and	per cent	26-10	27-44	27.67	27.49	27-28	27.52	27.97	28.24	28.26	28.36

<sup>\*</sup> These data are shown graphically in the CEGB's Annual Report and Accounts for 1980-81, Figures 1-4

Source of information for Retail Price Index (in row 6) and average earnings of employees in UK (in row 9): "Monthly Digest of Statistics" (Central Statistical Office)

			1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81
	Comparisons of CEGB costs											
	and fossil fuel price			74074044			177.00000000000	24 242 MBW	DOMESTIC BOX			
1	Total costs per kW h sold	pence	0.6416	0.6479	0.7560	1.0339	1 · 2888	1 - 4474	1-6812	1.8127	2 · 1677	2.7856
2	Fossil fuel price	p/GJ	25-847	26-311	30.738	52.892	68-110	79-345	93 · 386	98 · 638	119-936	147 - 488
3	Retail Price Index (RPI)		167 - 7	179-6	198 · 4	234.0	291-6	336.0	383 - 1	414-8	480.5	558.8
4	Total costs per kW h/RPI (average)		92-1	86.9	91.8	106-4	106 - 4	103-7	105.7	105-2	108-6	120.0
5	Fuel price per p/GJ/RPI (average)		95.5	90.7	96.0	140-0	144.7	146-3	151-0	147-3	154-6	163 - 5
	Manpower productivity											
6	Employees per megawatt of declared net capability (DN	C)	1-20	1.13	1.11	1.13	1.08	1.08	1.08	1 · 10	1.08	1.05
7	Electricity supplied from power stations per employee	mn.kW h		3.207	3-142	3 · 191	3.237	3.434	3.492	3.599	3.591	3.542
8*	Employees per megawatt of DNC (1958-59 = 100)		53.03	49.77	48.76	49.73	47.44	47.44	47.46	48.43	47.58	46.39
9*	Electricity supplied per employee (1958-59 = 100)		179 - 48	197-60	193 - 59	196-61	199 - 45	211-58	215-61	221.75	221 · 26	218 · 24
	Plant availability											
10	Mean availability of coal- and oil-fired 500-660 MW single	0-										
,,,	shaft generating units at times of daily peak for	C-										
	working days for winter period (Dec. Jan. Feb.)	per cent	62.5	69-4	69 · 1	75.2	70.8	74.2	75.3	84.6	83.9	87-8
	System thermal efficiency of fossil-fired plant											
11*	Coal-, gas- and oil-fired steam stations, diesel and											
	gas-turbine plant†	per cent	28.95	29.73	29.78	30.56	31-24	31.57	31.48	31-82	31.67	32 - 17

These data are shown graphically in the CEGB's Annual Report and Accounts for 1980-81, Figures 1-4

Source of information for Retail Price Index (in row 6) and average earnings of employees in UK (in row 9): "Monthly Digest of Statistics" (Central Statistical Office)

<sup>†</sup> Including pre-commissioned output

<sup>†</sup> Including pre-commissioned output

#### **Central Electricity Generating Board** at 31 March 1981

Chairman Deputy Chairman

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J. W. Baker MA

G. A. W. Blackman CBE CEng FIMechE FinstE CBIM

D. R. Lomer CEng FIEE CBIM

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E. Sharp CBE BSc(Econ) CBIM

G. T. Shepherd CBE BSc(Eng) CEng FIMechE FIEE

#### Regions

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South Eastern Region Bankside House, Sumner Street, London SE1 9JU

G. N. Stone BSc(Eng)

Director-General

South Western Region Bedminster Down, Bridgwater Road, Bristol BS13 8AN D. A. Pask VRD ACGI BSc(Eng) CEng FICE FIMechE FIEE FinstE MIEEE

Director-General

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North Eastern Region Beckwith Knowle, Otley Road, Harrogate HG3 1PS

Director-General

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North Western Region Europa House, Bird Hall Lane, Cheadle Heath, Stockport SK3 0XA

Director-General

J. R. Craig BSc(Eng) ARTC CEng FIEE

#### Divisions

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Director-General

I. M. H. Preston BSc PhD MinstP CEng FIEE

Transmission and Technical Services Division

Burymead House, Portsmouth Road, Guildford, Surrey GU2 5BN

Director-General

P. R. Howard BSc(Eng) PhD CEng FIEE

Research Division

Courtenay House, 18 Warwick Lane, London EC4P 4EB

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D. J. Littler BSc PhD ARCS CEng FIEE FinstP

#### Headquarters

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J. Smith LLB FCA

R. R. Matthews MA CEng FIMechE FIEE FIChemE

T. Broom OBE MA PhD CEng FIM

D. G. Jefferies CEng FIEE F. C. W. Colmer MA CEng FIEE FinstP FinstE

J. Anderson

#### Central Electricity Generating Board Organization at 31 March 1981 The Generating Board The Executive (Chairman & Full-Time Members) Director of Planning Secretary F. C. W. Colmer J. Anderson Services to Board and Executive Director of Information Overseas Adviser P. E. Taylor J. M. Woolf Director of Director of Director of Finance Director of Health and Safety Director of Operations Computing Personnel Management Headquarters F. Ledger D. G. Jefferies R. R. Matthews T. Broom Staff Computing Planning & eadquarters Computin National Grid System Development Manager J. J. Williamson Centre Manager Control Internal Audit A. E. Woollaston E. Chefneux R. J. Taylor Generation Transmission South Eastern South Western North Eastern North Western Midlands Region Dev. & Const'n. & Technical Services Research Division Region Region Region Region Division Division Line Management Director - General I. M. H. Preston G. N. Stone J. Porteous D. A. Pask R. J. Weeks J. R. Craig P. R. Howard D. J. Littler

Director CERL

P. F. Chester

Director BNL

B: Edmondsor

Director MEL

E. W. Carpenter

Headquarters Staff Departments provide a service to the Board and the Executive, and, in addition, supply specialist services and guidance to the whole of the Boards organization.

The Director of Operations has in addition an executive responsibility for National Grid Control.

Published by CENTRAL ELECTRICITY GENERATING BOARD

To be obtained from

Press and Publicity Office Sudbury House 15 Newgate Street London EC1A 7AU

and from the CEGB offices at
Bankside House Sumner Street London SE1 9JU
Bedminster Down Bridgwater Road Bristol BS13 BAN
Haslucks Green Road Shirley Solihull West Midlands B90 4PD
Beckwith Knowle Otley Road Harrogate HG3 1PS
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Burymead House Portsmouth Road Guildford Surrey GU2 5BN
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Printed by The Thetford Press Ltd Thetford and London

G999 July 1981

ISB No. 0 902543 63 6