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BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 12

Trade G

ELECTRICITY SUPPLY INDUSTRY

*Presented by the Board of Trade to Parliament
in pursuance of the Statistics of Trade Act, 1947
(10 & 11 Geo. 6, Ch. 39, Sec. 7).*

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THREE SHILLINGS NET

In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s 0d. NET

List of Tables

Table No.	Title	Page.
1	Summary: Larger establishments	12/G/2
2	Summary, 1948: Small firms in Great Britain	12/G/3
3	Estimated average employment, 1948: All firms in Great Britain	12/G/3
4	Analysis by size, 1948: Larger establishments in Great Britain	12/G/4
5	Analysis by standard region, 1948: Larger establishments in Great Britain	12/G/5
6	Analysis according to specialisation within the trade, 1948: Larger establishments in Great Britain	12/G/5
7	Total make of intermediate products: Larger establishments	*
8	Sales (or production) of the principal products of the trade, including sales (or production) of these products by establishments classified to other trades: Larger establishments	12/G/6
9	Sales (or production) of principal products of the trade by establishments classified to other trades: Larger establishments	12/G/6
10	Sales (or production) in the trade of other than principal products: Larger establishments	*
11	Analysis of sales, 1948: Larger establishments in Great Britain	12/G/9
12	Production, exports and imports of certain principal products: Larger establishments	*
13	Purchased materials and fuel: Larger establishments	12/G/11
14	Stocks of finished products and work in progress and stocks of materials and fuel, 1948: Larger establishments in Great Britain	*
15	Employment and remuneration: Larger establishments	12/G/13
16	Wages and salaries paid, 1948: Larger establishments in Great Britain	12/G/15
17	Payments for work done on materials given out, 1948: Larger establishments in Great Britain	*
18	Payments for certain services, 1948: Larger establishments in Great Britain	12/G/16
19	Plant, machinery and vehicles acquired and disposed of, 1948: Larger establishments in Great Britain	12/G/17
20	Capital expenditure on building work and changes in occupation of buildings and land, 1948: Larger establishments in Great Britain	12/G/17

Country Tables

Table No.	Title	Page
21	Summary: Larger establishments	12/G/18
22	Summary: Small firms	12/G/19
23 or 23(1)	Sales in the trade: Larger establishments	12/G/20
23(11)	Sales in the trade: Small firms	12/G/22
24 or 24(1)	Purchased materials and fuel: Larger establishments	12/G/23
24(11)	Purchased materials and fuel: Small firms	12/G/26
25 or 25(1)	Employment and remuneration: Larger establishments	12/G/27
25(11)	Employment: Small firms	12/G/29
26	Monthly index of employment of operatives: Larger establishments	12/G/30

* Not applicable to this trade

ELECTRICITY SUPPLY INDUSTRY

THIS REPORT on the Electricity Supply Industry relates to establishments engaged wholly or mainly in producing or distributing electricity.

This trade corresponds to minimum list heading 211 in the Standard Industrial Classification.

The electricity supply industry was nationalized on April 1, 1948. On that day the British Electricity Authority (the Central Authority) and fourteen Area Electricity Boards took over the ownership and operation of the industry throughout Great Britain except in the North of Scotland District and in the case of some small non-statutory electricity suppliers.

In the report which follows, separate particulars are given for the nationalized and non-nationalized sectors of the industry. The nationalized industry covers the British Electricity Authority, including the fourteen Area Boards, and the North of Scotland Hydro-electric Board; the Lochaber Power Company, although not a nationalized undertaking, is included with the North of Scotland Board in the following tables, under the term "North of Scotland". The non-nationalized sector of the industry comprises establishments of transport authorities (whether nationalized or not) producing electricity mainly for the use of the parent undertakings, and certain other undertakings which have not been nationalized. Establishments producing electricity for use at works or factories under the same control are excluded, being classified to the trades covering the major output of the parent works.

The term "larger undertakings" used in this report covers all establishments of the nationalized industry and the Lochaber Power Company, regardless of size, together with those non-nationalized undertakings which employed more than ten persons on average in 1948. The term "smaller undertakings" covers only non-nationalized undertakings which employed 10 persons or fewer on average in 1948.

The 1935 figures included in this report differ in several respects from those given in the Final Report on the 1935 Census of Production. Returns made by the Central Electricity Board in that year have been included, and the figures of electricity sold and electricity purchased have been amended so as to exclude, as far as possible, bulk inter-sales of electricity, thus eliminating duplication from the recorded output figures; the output figures have been further amended to include the value of capital work carried out by undertakings' own employees. Even so, the figures of gross and net output for the two years 1935 and 1948 are not exactly comparable, since the figures for the latter year include, whilst the figures for the earlier year exclude, meter rents, receipts for hire of appliances and net receipts from the sale of appliances. None of these figures was ascertained for 1935.

Establishments in this trade in Northern Ireland (which are excluded in 1948) accounted in 1935 for about 1 per cent. of the net output of the United Kingdom.

GAS, ELECTRICITY AND WATER
ELECTRICITY SUPPLY INDUSTRY

Summary

Larger undertakings

TABLE 1

	1948			1935	
	British Electricity Authority and North of Scotland	Other (a)	Total (b)	(b)	(c)
Gross output (production)	£'000 232,963	£'000 8,431	£'000 241,394	£'000 86,804	£'000 87,833
Cost of materials and fuel used (see Table 13) (d)	99,645	5,827	105,472	23,712	24,141
Net output	133,318	2,604	135,922	63,092	63,692
Wages and salaries of persons employed	£ 51,358	£ 1,455	£ 52,813	£ ..	£ ..
Average number of persons employed	No. 148,160	No. 3,811	No. 151,971(e)	No. 102,928	No. 104,758
Net output per person employed	£ 900	£ 683	£ 894	£ 613	£ 608
Number of generating stations	No. 330	No. 20(f)	No. 350	No. 617(f)	No. 624(f)

(a) For small undertakings' summary see Table 2.

(b) Great Britain only.

(c) United Kingdom.

(d) Purchased from outside sources.

(e) For the total number of persons employed in this trade see Table 3.

(f) Number of establishments.

The value of gross output is derived in the following way:-

	1948 (a)			1935 (a)
	British Electricity Authority and North of Scotland	Other	Total	
Electricity sold to consumers	£'000 190,561	£'000 7,812	£'000 198,373	£'000 72,095
By- and waste products sold	679	103	782	(b)
Rents received	3,839	2	3,841	
Net receipts from sale of appliances	1,356	-	1,356	
Work charged for	9,295	7	9,302	3,766
Work of new construction	27,234	507	27,741	11,972
Gross output (production)	232,963	8,431	241,394	87,833

(a) See Tables 8(11) and 8(111).

(b) Not ascertained.

Summary, 1948

Small undertakings in Great Britain

TABLE 2

Gross output (production)	£'000 33
Cost of materials and fuel used	16
Net output (a)	18
Average number of persons employed (b)	No. 39
Net output per person employed	£ 458
Number of undertakings	No. 12

(a) The value of net output here is the difference between the value of gross output (production) and the cost of materials and fuel used.

(b) Including working proprietors.

Estimated average employment, 1948

All undertakings in Great Britain

TABLE 3

As returned by undertakings	
Employing on average more than ten persons (a)	151,971
Employing on average ten persons or less (b)	39
Estimated average employment in undertakings not making satisfactory returns	-
Average employment in all undertakings	152,010

(a) See Tables 1 and 15.

(b) See Table 2.

Size of generating stations in 1948

Larger undertakings

TABLE 4

Size of generating station (average number of operatives employed (a))	Generating stations	Units sent out	Operatives employed (a)	Wages
Under 11	117	163	518	157
11 - 24	49	717	856	284
25 - 49	40	499	1,389	466
50 - 99	46	2,768	3,357	1,158
100 - 199	46	9,385	6,832	2,341
200 - 299	25	9,873	6,068	2,185
300 - 399	13	8,236	4,746	1,729
400 - 499	6	3,646	2,791	996
500 - 749	5	5,914	3,094	1,215
750 - 999	1	1,048	919	381
1000 and over	2	3,412	3,686	1,529
Total	350	45,662	34,256	12,441

(a) For undertakings other than those of the British Electricity Authority and North of Scotland the figures may include operatives engaged on work outside generating stations.

Analysis by standard region, 1948

Larger undertakings

TABLE 5

Region	Gross output	Net output		Persons employed	Remuneration		
		Value	Percentage of total		Wages	Salaries	Total
	£'000	£'000		No.	£'000	£'000	£'000
England							
Northern	11,770	7,073	5.2	6,692	1,479	919	2,398
East and West Ridings of Yorkshire	20,350	10,657	7.8	12,568	2,942	1,384	4,326
North Midland	16,553	10,701	7.9	9,142	2,009	1,010	3,020
Eastern	23,219	17,729	13.0	14,156	2,909	1,979	4,888
London and South Eastern	53,730	23,049	17.0	37,658	9,841	4,420	14,261
Southern	18,249	13,720	10.1	11,611	2,327	1,444	3,771
South Western	9,211	4,646	3.4	7,566	1,598	850	2,448
Midland	20,912	10,346	7.6	12,657	2,872	1,558	4,429
North Western	36,751	21,087	15.5	21,665	4,905	2,337	7,242
Total England	210,744	119,007	87.6	133,715	30,882	15,902	46,784
Wales	11,068	5,725	4.2	7,155	1,573	737	2,310
Scotland	19,582	11,190	8.2	11,101	2,567	1,152	3,719
Great Britain	241,394	135,922	100.0	151,971	35,022	17,791	52,813

TABLE 6 - Analysis according to specialisation within the trade, 1948

Larger undertakings in Great Britain

No specialisation within this trade was distinguished.

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

Summary of generation and distribution of electricity
All undertakings in Great Britain (a)

TABLE 8 (i)

	1948			1935
	British Electricity Authority and North of Scotland	Other	Total	
	Mill. kW.hrs.	Mill. kW.hrs.	Mill. kW.hrs.	Mill. kW.hrs.
Electricity generated	46,493	1,742	48,234	19,313
Purchased from outside sources				
By generating stations	292	368	778	205
By distribution system	119			
Total	46,904	2,109	49,013	19,518
Used on works, etc. at generating stations	2,625	103	2,728	1,094
Used in offices and showrooms	51(b)	1(b)	52(b)	
Conversion, transmission and distribution losses and units unaccounted for				
By generating stations	815	170	985	2,358
By distribution system	4,131	40	4,171	
Units sold				
Direct from generating stations to consumers	1,063	1,795	41,077	16,066
Through distribution system	38,219			
Total	46,904	2,109	49,013	19,518

(a) Including small undertakings of the non-nationalized industry.

(b) So far as recorded separately.

Sales of electricity and other products, rents received and charges for work done

Larger undertakings

TABLE 8 (ii)

	1948 Sales (a)						1935 (b) Sales	
	British Electricity Authority and North of Scotland		Other (c)		Total			
	Value	Entries	Value	Entries	Value	Value		
	£'000	No.	£'000	No.	£'000	£'000		
Electricity sold	190,561(d)	23	7,812(e)	20	198,373	72,095(f)		
By- and waste products sold								
Scrap metal	310	127	13	..	323	(g)		
Steam and hot water	311	39	88	..	398			
Ashes and other output	59	106	2	8	60			
Total	679	..	103	..	782			
Rents received								
Meter rents	1,255	16	2	6	1,257	(g)		
Hire of appliances	2,584	15	-	..	2,584			
Total	3,839	..	2	..	3,841			
Net receipts from sale of appliances	1,356(h)	15	-	-	1,356	(g)		
Work charged for								
Fitting and repairing appliances	5,594	15	-	-	5,594	2,582		
Installation, repair and maintenance of public lamps	997	15	-	..	997	571		
Other work charged to consumers	2,705	103	6	..	2,711	613(1)		
Total work charged for	9,295	..	7	..	9,302	3,766(1)		
Total	205,730	245	7,924	20	213,653	75,861		

(a) Great Britain only.

(b) United Kingdom.

(c) For output of small undertakings see Table 23(11).

(d) To consumers and to undertakings other than units of the British Electricity Authority and North of Scotland. Inter-sales between units of the British Electricity Authority and North of Scotland are excluded.

(e) To consumers and other undertakings.

(f) To consumers. Sales by the Central Electricity Board to authorised undertakings and sales by such undertakings to the Central Electricity Board are excluded.

(g) Not recorded.

(h) Net receipts from sale of appliances are derived as follows:-

	£'000	£'000
Proceeds from re-sale of purchased appliances and sale of reconditioned appliances withdrawn from hire		8,390
Cost of purchased appliances sold, and value (before reconditioning) of appliances withdrawn from hire	6,946	
Payments to other firms for renovation of appliances	88	7,034
Net receipts from sale of appliances		1,356

(1) Including work done for other generating stations or Electricity Boards or for other undertakings. For 1948 the value of such work, not included in the above table, amounted to £492,000 for the British Electricity Authority and North of Scotland and £4,000 for other undertakings.

Work of new construction and repair and maintenance carried out by employees of Electricity Undertakings

Larger undertakings

TABLE 8 (iii)

	1948 (a)					1935 (b)	
	British Electricity Authority and North of Scotland		Other (c)		Total		
	Amount charged	Entries	Amount charged	Entries	Amount charged	Amount received	
On depots, workshops, offices and other buildings	£'000	No.	£'000	No.	£'000	£'000	
New construction	1,214	76	1	..	1,215	125	
Repair and maintenance	1,759	226	26	..	1,785	231	
On plant and machinery							
New construction	7,872	87	384	..	8,256	182	
Repair and maintenance	10,149	232	97	8	10,247	1,806	
On mains and services							
New construction	18,148	29	122	6	18,270	11,665	
Repair and maintenance	4,828	32	366	5	5,194	3,200	
Total work of new construction and repair and maintenance	43,971	..	996	..	44,967	17,209	
Less work of repair and maintenance	16,737	..	489	..	17,226	5,237	
Total new construction	27,234	..	507	..	27,741	11,972	

(a) Great Britain only.

(b) United Kingdom.

(c) For output of small undertakings see Table 23 (11).

TABLE 9 - Sales (or production) of principal products of the trade by Establishments classified to other trades: Larger establishments

Details of electricity generated mainly for their own use by establishments classified to other trades, including any electricity supplied to other establishments or sold to other consumers, will be shown in a later summary volume.

TABLE 10 - Sales (or production) in the trade of other than principal products: Larger establishments

This table is not applicable to the trade.

Analysis of sales, 1948

Larger undertakings in Great Britain

(i) British Electricity Authority and North of Scotland

TABLE II

	Consumers	Units sold			Average value per unit sold
		Quantity	As percentage of total sales	Net selling value	
Domestic premises (excluding farms, etc.)	No.	Mill. kW.hrs.		£'000	d.
On two-part or all-in domestic tariffs	7,612,986	11,656	29.7	54,941	1.131
On other tariffs and flat rates	3,183,761	1,610	4.1	17,843	2.659
Farms (including farmhouses and farm buildings) and horticultural premises	89,474	310	0.8	1,827	1.413
Public lighting authorities	5,267	257	0.7	1,644	1.535
Traction undertakings					
Railways, including light railways	16	807	2.0	2,895	0.861
Tramways and trolley buses	83	591	1.5	2,537	1.031
Waterworks, gasworks, and drainage and sewage pumping stations	3,658	504	1.3	2,099	1.000
Shops, commercial premises, etc.					
Shops (including garages, and licensed premises other than hotels)	57,500	120	0.3	940	1.875
Offices (including banks and wholesale warehouses)	17,915	23	0.1	182	1.886
Public buildings, schools, places of entertainment, etc. (including hospitals, public baths and public washhouses)	16,830	103	0.3	686	1.591
Hotels	2,980	20	-	172	2.114
H.M. Services	521	37	0.1	186	1.199
Other premises	6,035	27	0.1	187	1.676
Unclassified	1,120,607	4,139	10.5	30,555	1.772
Factories, works, workshops and other industrial premises for manufacturing and processing					
Invoiced as low and medium pressure supplies (up to 650 volts)	159,955	6,525	16.6	30,391	1.118
Invoiced as H.T. supplies (above 650 volts)	8,147	12,552	32.0	43,476	0.831
Total sales to consumers	12,285,735	39,282	100.0	190,561	1.164

(ii) Other undertakings

TABLE 11 (contd.)

	Consumers	Units sold	
		Quantity	As percentage of total sales
	No.	Mill. kw. hrs.	
Bulk supplies to			
National Authorities	10	173	9.7
Other undertakings	7	12	0.7
Total bulk supplies	17	185	10.3
Supplies to consumers			
Domestic premises (excluding farms, etc.)			
On two-part or all-in domestic tariffs	2,869	4	0.2
On other tariffs and flat rates	2,069	2	0.1
Farms (including farm houses and farm buildings) and horticultural premises	17	-	-
Public lighting authorities	3	1	-
Traction undertakings			
Railways, including light railways	4	811	45.2
Tramways and trolley buses	4	445	24.8
Waterworks, gas works, and drainage and sewage pumping stations	23	2	0.1
Shops, commercial premises, etc.			
Shops (including garages, and licensed premises other than hotels)	146	1	-
Offices (including banks and wholesale warehouses)	1,032	3	0.2
Public buildings, schools, places of entertainment, etc. (including hospitals, public baths and public washhouses)	49	1	-
Hotels	3	-	-
H.M. Services	15,008	72	4.0
Other premises	387	2	0.1
Unclassified	754	61	3.4
Factories, works, workshops and other industrial premises for manufacturing and processing			
Invoiced as low and medium pressure supplies (up to 650 volts)	211	182	10.1
Invoiced as H.T. supplies (above 650 volts)	5	21	1.2
Total supplies to consumers	22,584	1,608	89.7
Total	22,601	1,793(a)	100.0

(a) The electricity sold by small undertakings included in Table 8(1) but excluded here, amounted to 2 million kw. hrs.

TABLE 12 - Production, exports and imports of certain principal products

This table is not applicable to the trade.

Materials and fuel purchased and used

Larger undertakings

TABLE 13

	1948 (a) (b)						1935 (c)	
	British Electricity Authority and North of Scotland		Other		Total		Quantity	Cost
	Quantity	Cost	Quantity	Cost	Quantity	Cost		
	Tons	£'000	Tons	£'000	Tons	£'000	Quantity	£'000
Materials								
Iron and steel pipes and conduit tubes	4,874	259	101	3	4,775	262		
Other iron and steel (excluding component parts)	5,966	216	52	1	6,018	217		
Cement	10,664	51	43	-	10,707	51		
	Thous.		Thous.		Thous.			
Bricks	10,424	150	92	3	10,516	153	..	14,427(d)
Timber (including plywood and veneers)	..	315	..	-	..	315		
Electric wires and cables	..	8,993	..	124	..	9,117		
Other building materials	..	276	..	-	..	277		
All other purchased materials	..	16,812	..	217	..	17,029		
Fuel other than gas and electricity	Th. tons		Th. tons		Th. tons		Th. tons	
Coal	27,842.7	70,056	1,246.3	3,591	29,088.9	73,647	12,542.2	8,963
Coke and coke breeze	443.8	755	15.3	23	459.0	778	188.7	79
Motor spirit (petrol) and deriv. fuel	Th. galls.		Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	4,511	411	6	-	4,517	412		
Used for other power purposes	2,146	93	..	6	2,146	93	..	(e)
Other oil fuel (including creosote/pitch mixtures)	9,050	363	8,054	279	17,104	643	6,031	112(f)
..			..	37	..	37		
All other purchased fuel other than gas and electricity	..	19	..	1	..	20		
Gas purchased	Th. therms		Th. therms		Th. therms			
From public supply	104	5	31	2	136	7	..	(e)
From other sources	..	4	-	-	..	4		
Gas obtained from other works under the same ownership	-	-	-	-	-	-		

TABLE 13 (contd.)

	1948 (a) (b)						1935 (c)	
	British Electricity Authority and North of Scotland		Other		Total		Quantity	Cost
	Quantity	Cost	Quantity	Cost	Quantity	Cost		
	Mill. B. T. U. (kW. hrs.)	£'000	Mill. B. T. U. (kW. hrs.)	£'000	Mill. B. T. U. (kW. hrs.)	£'000	Mill. B. T. U. (kW. hrs.)	£'000
Electricity purchased	411	1,058(g)	367	1,538(h)	778	2,596	205	292(i)
Excess of electricity inter-purchases over bulk inter-sales	-	-	-	-	-	-	..	268(j)
Total		99,835		5,828		105,663		24,141
Less cost of materials supplied to contractors for capital work		190		1		191		-
Net total of materials, fuel and electricity purchased and used		99,645		5,827		105,472		24,141

- (a) For materials and fuel used by small firms see Table 24 (11).
 (b) Great Britain only.
 (c) United Kingdom.
 (d) Including fuel not specified separately.
 (e) Not recorded separately.
 (f) Described as "Heavy fuel oil".
 (g) From undertakings and sources other than units of the British Electricity Authority and North of Scotland Inter-purchases between units of the British Electricity Authority and North of Scotland are excluded.
 (h) From other undertakings and sources.
 (i) From sources other than authorised undertakings and the Central Electricity Board.
 (j) To avoid duplication, bulk inter-sales between the Central Electricity Board and authorised undertakings have been excluded (see Introduction). This figure represents the excess of recorded bulk inter-purchases over bulk inter-sales and arises partly from the fact that firms employing less than 10 persons are excluded from the Census and partly from the fact that the Central Electricity Board returned for a calendar year whereas Local Authorities returned for an April - March year (except in Scotland) and Companies for their individual financial years. Details of the recorded bulk inter-transactions are given below:-

Sales	Mill. kW. hrs.	£'000
Bulk supplies to the Central Electricity Board	14,617	20,682
Bulk supplies to other authorised undertakings	4,517	9,631
Sales by the Central Electricity Board	14,508	22,874
Total sales	33,642	53,187
Purchases	Mill. kW. hrs.	£'000
Purchases from the Central Electricity Board	14,705	23,523
Purchases from other authorised undertakings	4,258	8,955
Purchases by the Central Electricity Board	14,508	20,977
Total purchases	33,471	53,455
Excess of sales over purchases	171	-
Excess of purchases over sales	-	268

TABLE 14 - Stocks of finished products and work in progress and stocks of materials and fuel, 1948: Larger establishments in Great Britain

This table is not applicable to the trade.

Employment and remuneration

Larger undertakings

(i) Other than Government Departments (a)

TABLE 15

	Average number of operatives		Administrative, technical and clerical employees (b)		Total	
	1948 (c)	1935 (d)	1948 (c)	1935 (d)	1948 (c)	1935 (d)
Males						
Under 18	3,530	2,321	1,090	1,123	4,620	3,444
All ages	105,343	78,146	32,225	21,250	137,568	99,396
Females						
Under 18	31	17	1,739	445	1,770	462
All ages	2,094	661	11,677	4,253	13,771	4,914
Total						
Under 18	3,561	2,338	2,829	1,568	6,390	3,906
All ages	107,437	78,807	43,902(e)	25,503	151,339 (e) (f)	104,310
Total remuneration	£'000	..	£'000	..	£'000	..
	34,836	..	17,754	..	52,590	..

- (a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

	British Electricity Authority and North of Scotland		Other		Total	
	Males	Females	Males	Females	Males	Females
Canteen workers	86	825	-	141	86	966
Other workers	59	7	6,310	1,106	6,369	1,113

- (b) Number at September 25, 1948, and October 12, 1935.
 (c) Great Britain only.
 (d) United Kingdom.
 (e) No working proprietors were recorded for 1948.
 (f) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to:-

	£'000
British Electricity Authority and North of Scotland	1,304
Other undertakings	28
Total	1,332

(ii) Government Departments

TABLE 15 (contd.)

	Average number of operatives		Administrative, technical and clerical employees (a)		Total	
	1948 (b)	1935 (c)	1948 (b)	1935 (c)	1948 (b)	1935 (c)
Males						
Under 18	10	5	1	-	11	5
All ages	558	409	69	39	627	448
Females						
Under 18	-	-	-	-	-	-
All ages	-	-	5	-	5	-
Total						
Under 18	10	5	1	-	11	5
All ages	558	409	74	39	632(d)	448
	£'000		£'000		£'000	
Total remuneration	186	..	36	..	223	..

(a) Number at September 25, 1948, and October 12, 1935.

(b) Great Britain only.

(c) United Kingdom.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £6,000.

Wages and salaries paid, 1948 (a)

Larger undertakings in Great Britain

TABLE 16

	Amount paid by all undertakings	Undertakings making returns for the calendar year							
		Amount paid	Percentage of annual remuneration paid in						
			First quarter	Second quarter	Third quarter	Fourth quarter	Year		
Wages and salaries of	£'000	£'000							
Operatives									
British Electricity Authority and North of Scotland	33,753	33,753	23.8	24.7	25.5	26.1	100.0		
Other	1,269	1,269	25.4	24.7	25.2	24.7	100.0		
Administrative, technical and clerical employees									
British Electricity Authority and North of Scotland	17,605	17,605	23.2	24.3	25.6	26.9	100.0		
Other	185	185	24.1	24.7	25.4	25.7	100.0		
Total									
British Electricity Authority and North of Scotland	51,358	51,358	23.6	24.5	25.5	26.3	100.0		
Other	1,455	1,455	25.2	24.7	25.2	24.8	100.0		
Total	52,813	52,813	23.6	24.5	25.5	26.3	100.0		

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948

Larger establishments in Great Britain

This table is not applicable to the trade.

Payments for certain services, 1948

Larger undertakings

TABLE 18

	Amount paid		
	British Electricity Authority and North of Scotland	Other	Total
	£'000	£'000	£'000
Repair and maintenance			
Of buildings	467	85	552
Of plant, machinery and vehicles	2,305	104	2,409
Hire of plant, machinery and vehicles	518	3	520
Advertising and market research			
Advertising in newspapers, magazines and periodicals	36	-	36
Other advertising services (poster display, despatch of circulars, etc.) and market research	15	-	15
Unclassified	166	-	166
Annual payment to Electrical Development Associations	137	-	137
Payments made for research work			
To research associations	90	-	90
To universities, institutions, academic bodies and similar agencies	8	-	8
To other commercial concerns	5	-	5
Postage, telephone, telegrams and cables	711	1	712
Commercial insurance premiums	571	5	576
Amount payable in the year in respect of wayleaves, easements, etc.	256	2	258
Payments in lieu of rates (excluding water rates)	12,306	145	12,451

Plant, machinery, vehicles and appliances for hire, acquired and disposed of, 1948

Larger undertakings

TABLE 19

	Acquisitions				Disposals	
	New		Second-hand		British Electricity Authority and North of Scotland	Other
	British Electricity Authority and North of Scotland	Other	British Electricity Authority and North of Scotland	Other		
	£'000	£'000	£'000	£'000	£'000	£'000
Plant and machinery (a)	66,865	703	21	25	564	2
Appliances for hire	1,387 (b)	-	-	-	67 (c)	-
Vehicles	968	-	177	-	53	-
Total	69,220	703	198	25	683	2

(a) Including meters, mains and services and main transmission lines, and railway sidings owned by electricity undertakings.

(b) Issued during the year.

(c) Proceeds from the disposal of appliances formerly on hire which were sold or scrapped during the year.

Capital expenditure on building work and changes in occupation of buildings and land, 1948

Larger undertakings

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		24,119
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	696	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	3,583	
(111) Leasehold buildings and land newly occupied in the year	457	
Total of heading 2		4,737
Total of headings 1 and 2		28,856
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	11	
(11) Estimated value of other properties relinquished	46	
Total of heading 3		57
4. Headings 1 and 2 less heading 3		28,799

(a) Excluding site value which, where appropriate, is included in heading 2(1).

(b) The figures do not reflect changes in ownership of previously occupied land and buildings.

(c) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.

(d) Including property destroyed or abandoned.

ELECTRICITY SUPPLY INDUSTRY

1948

Summary

Larger undertakings

TABLE 21

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (production)	210,744	11,068	19,582	241,394
Cost of materials and fuel used	91,737	5,343	8,393	105,472
Net output	119,007	5,725	11,190	135,922
Wages and salaries of persons employed	46,784	2,310	3,719	52,813
Average number of persons employed	No. 133,715	No. 7,155	No. 11,101	No. 151,971
Net output per person employed	£ 890	£ 800	£ 1,008	£ 894
Number of generating stations	No. 261	No. 35	No. 54	No. 350

The value of gross output is derived in the following way:-

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Electricity sold to customers	172,531	9,068	16,774	198,373
By- and waste products sold	592	107	83	782
Rents received	3,596	171	74	3,841
Net receipts from sale of appliances	1,187	31	138	1,356
Work charged for	8,689	306	306	9,302
Work of new construction	24,150	1,384	2,207	27,741
Gross output (production)	210,744	11,068	19,582	241,394

Summary

Small undertakings

TABLE 22

	England	Wales	Great Britain (a)
	£'000	£'000	£'000
Gross output (production)	14	20	33
Cost of materials and fuel used	8	9	16
Net output (b)	6	12	18
Average number of persons employed (c)	No. 17	No. 22	No. 39
Net output per person employed	£ 329	£ 557	£ 458
Number of undertakings	No. 7	No. 5	No. 12

(a) There were no small undertakings in Scotland in the register for this trade.

(b) The value of net output here is the difference between the value of gross output (production) and the cost of materials and fuel used.

(c) Including working proprietors.

Sales, etc. in the trade

Larger undertakings

TABLE 23 (i)

	England and Wales		Scotland		Great Britain	
	British Electricity Authority and North of Scotland	Other(a)	British Electricity Authority and North of Scotland	Other(a)	British Electricity Authority and North of Scotland	Other(a)
	£'000	£'000	£'000	£'000	£'000	£'000
Electricity sold	174,263	7,336	16,298	476	190,561	7,812
By- and waste products sold						
Scrap metal	288	2	22	11	310	13
Steam and hot water	265	88	46	-	311	88
Ashes and other output	55	2	4	-	59	2
Total	608	92	72	11	679	103
Rents received						
Meter rents	1,233	2	22	-	1,255	2
Hire of appliances	2,532	-	52	-	2,584	-
Total	3,765	2	74	-	3,839	2
Net receipts from sale of appliances	1,218	-	138	-	1,356	-
Work charged for						
Fitting and repairing appliances	5,485	-	109	-	5,594	-
Installation, repair and maintenance of public lamps	946	-	51	-	997	-
Other work charged to consumers	2,559	6	146	-	2,705	6
Total work charged for	8,989	7	306	-	9,295	7
Other work done						
On depots, work-shops, offices and other buildings						
New construction	1,098	1	116	-	1,214	1
Repair and maintenance	1,636	25	123	1	1,759	26

TABLE 23 (i) (contd.)

	England and Wales		Scotland		Great Britain	
	British Electricity Authority and North of Scotland	Other(a)	British Electricity Authority and North of Scotland	Other(a)	British Electricity Authority and North of Scotland	Other(a)
	£'000	£'000	£'000	£'000	£'000	£'000
Other work done (contd.)						
On plant and machinery						
New construction	7,462	382	410	2	7,872	384
Repair and maintenance	9,556	75	594	22	10,149	97
On mains and services						
New construction	16,509	82	1,639	40	18,148	122
Repair and maintenance	4,390	36	438	330	4,828	366
Total other work done	40,651	601	3,320	395	43,971	990
Less work of repair and maintenance	15,582	136	1,154	353	16,736	489
Total new construction	25,068	466	2,166	41	27,234	507
Total	213,909	7,903	19,054	528	232,963	8,431

(a) For output of small undertakings see Table 23 (11).

Sales, etc. in the trade

Small undertakings

TABLE 23 (11)

	England and Wales (a)	
	Quantity	Value
	Th.kW.hrs.	£'000
Electricity sold	1,801	26
Steam and hot water sold	..	4
Meter rents received	..	1
Net receipts from sales of appliances	..	-
Work charged for		3
Other work done (new construction and repair and maintenance)		5
Total		37
Less work of repair and maintenance		4
Total value of production		33

(a) There were no small undertakings in Scotland in the register for this trade.

Materials and fuel purchased and used

Larger undertakings

(1) British Electricity Authority and North of Scotland

TABLE 24 (1)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Tons	£'000	Tons	£'000	Tons	£'000
Materials						
Iron and steel pipes and conduit tubes	4,551	253	123	6	4,674	259
Other iron and steel (excluding component parts)	5,521	181	445	35	5,966	216
Cement	8,416	41	2,248	10	10,664	51
Bricks	9,198	140	1,226	9	10,424	150
Timber (including plywood and veneers)	..	299	..	16	..	315
Electric wires and cables	..	8,157	..	835	..	8,992
Other building materials	..	258	..	18	..	276
All other purchased materials	..	15,734	..	1,078	..	16,812
Fuel other than gas and electricity	Th.tons		Th.tons		Th.tons	
Coal	25,579.0	64,393	2,263.7	5,663	27,842.7	70,056
Coke and coke breeze	380.3	657	63.5	98	443.8	755
Motor spirit (petrol) and derv. fuel	Th.galls.		Th.galls.		Th.galls.	
Used for road vehicles	4,229	382	282	29	4,511	411
Used for other power purposes	2,138	92	8	1	2,146	93
Other oil fuel (including creosote/pitch mixtures)	5,681	228	3,368	135	9,050	363
All other purchased fuel other than gas and electricity	..	17	..	2	..	19
Gas purchased	Th.therms		Th.therms		Th.therms	
From public supply	103	5	1	-	104	5
From other sources	..	4	-	-	..	4

TABLE 24 (i) (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
		£'000		£'000		£'000
Gas obtained from other works under the same ownership	-	-	-	-	-	-
Electricity purchased	Mill.B.T.U. (kW.hrs.) 401	1,024	Mill.B.T.U. (kW.hrs.) 10	33	Mill.B.T.U. (kW.hrs.) 411	1,058
Total		91,866		7,969		99,835
Less cost of materials supplied to contractors for capital work		190		-		190
Net total of materials, fuel and electricity purchased and used		91,677		7,968		99,645

(2) Other undertakings (a)

TABLE 24 (i) (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Tons	£'000	Tons	£'000	Tons	£'000
Materials						
Iron and steel pipes and conduit tubes	73	2	28	1	101	3
Other iron and steel (excluding component parts)	40	1	12	-	52	1
Cement	21	-	22	-	43	-
Bricks	Thous. 82	3	Thous. 10	-	Thous. 92	3
Timber (including plywood and veneers)	-	-	-	-	-	-
Electric wires and cables	..	88	..	36	..	124
Other building materials	..	-	-	-	..	-
All other purchased materials	..	209	..	8	..	217
Fuel other than gas and electricity	Th.tons		Th.tons		Th.tons	
Coal	1,131.9	3,288	114.4	303	1,246.3	3,591
Coke and coke breeze	13.1	20	2.2	3	15.3	23
Motor spirit (petrol) and derv. fuel	Th.galls.		Th.galls.		Th.galls.	
Used for road vehicles	3	-	2	-	6	-
Used for other power purposes	..	6	-	-	..	6
Other oil fuel (including creosote/pitch mixtures)	8,054 ..	279 57	- ..	- ..	8,054 ..	279 57
All other purchased fuel other than gas and electricity	..	1	..	-	..	1

TABLE 24 (i) (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Gas purchased	Th.therms	£'000	Th.therms	£'000	Th.therms	£'000
From public supply	31	2	1	-	31	2
From other sources	-	-	-	-	-	-
Gas obtained from other works under the same ownership	-	-	-	-	-	-
Electricity purchased	Mill.B.T.U. (kW.hrs.)		Mill.B.T.U. (kW.hrs.)		Mill.B.T.U. (kW.hrs.)	
	347	1,467	20	72	367	1,538
Total		5,404		424		5,828
Less cost of materials supplied to contractors for capital work		1		-		1
Net total of materials, fuel and electricity purchased and used		5,403		424		5,827

(a) For materials purchased by small undertakings see Table 24 (ii).

Materials and fuel purchased and used

Small undertakings

TABLE 24 (ii)

	England and Wales (a)	
	Quantity	Cost
Materials	..	£'000 4
Fuel and electricity	Th.tons	
Coal	2.9	7
All other purchased fuel (including gas)	..	2
Electricity	Th.B.T.U. (kW.hrs.) 581	3
Total		16

(a) There were no small undertakings in Scotland in the register for this trade.

Employment and remuneration

Larger undertakings

(i) British Electricity Authority and North of Scotland

TABLE 25 (i)

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	3,383	1,063	4,446	139	26	165	3,522	1,089	4,611
All ages	94,612	30,115	124,727	7,834	1,853	9,687	102,446	31,968	134,414
Females									
Under 18	28	1,595	1,623	2	144	146	30	1,739	1,769
All ages	1,925	10,761	12,686	162	898	1,060	2,087	11,659	13,746
Total									
Under 18	3,411	2,658	6,069	141	170	311	3,552	2,828	6,380
All ages	96,537	40,876	137,413 (b)	7,996	2,751	10,747 (b)	104,533	43,627	148,160 (b)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	31,266	16,487	47,753	2,486	1,118	3,604	33,753	17,605	51,358

(a) Number at September 25, 1948.

(b) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £1,304,000; £1,208,000 for England and Wales, and £97,000 for Scotland.

(2) Other undertakings (a)

TABLE 25 (contd.)

	England Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (b)	Total	Average number of operatives	Administrative, technical and clerical employees (b)	Total	Average number of operatives	Administrative, technical and clerical employees (b)	Total
Males									
Under 18	18	2	20	-	-	-	18	2	20
All ages	3,193	237	3,430	262	89	351	3,465	326	3,781
Females									
Under 18	-	-	-	1	-	1	1	-	1
All ages	4	23	27	3	-	3	7	23	30
Total									
Under 18	18	2	20	1	-	1	19	2	21
All ages	3,197	260 (c)	3,457 (c) (d)	265	89 (c)	354 (c) (d)	3,462	349 (c)	3,811 (c) (d)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	1,188	152	1,340	81	33	114	1,269	185	1,455

(a) For employment in small undertakings see Table 25 (11)

(b) Number at September 25, 1948.

(c) No working proprietors were recorded.

(d) The employers' share of contributors to all National Insurance Schemes payable during the year in respect of these workers amounted to £34,000; £31,000 for England and Wales, and £3,000 for Scotland.

(3) All larger undertakings

TABLE 25(i) (contd.)

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	3,401	1,065	4,466	139	26	165	3,540	1,091	4,631
All ages	97,805	30,352	128,157	8,096	1,942	10,038	105,901	32,284	138,185
Females									
Under 18	28	1,595	1,623	3	144	147	31	1,739	1,770
All ages	1,929	10,784	12,713	165	898	1,063	2,094	11,682	13,776
Total									
Under 18	3,429	2,660	6,089	142	170	312	3,571	2,830	6,401
All ages	99,734	41,136 (b)	140,870 (b) (c)	8,261	2,840 (b)	11,101 (b) (c)	107,995	43,976 (b)	151,971 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	32,455	16,639	49,094	2,567	1,152	3,719	35,022	17,791	52,813

(a) Number at September 25, 1948.

(b) No working proprietors were recorded.

(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £1,338,000; £1,239,000 for England and Wales, and £100,000 for Scotland.

Employment and remuneration
Small undertakings

TABLE 25 (ii)

	England and Wales (a)		
	Average number of operatives	Administrative, technical and clerical employees (b)	Total
Males			
Under 18	-	-	-
All ages	36	1	37
Females			
Under 18	-	-	-
All ages	-	-	-
Total			
Under 18	-	-	-
All ages	36	1 (c)	37 (c) (d)
Total remuneration	£'000	£'000	£'000
	9	1	10

(a) There were no small undertakings in Scotland in the register for this trade.

(b) Number at September 25, 1948.

(c) There were, in addition, 2 male working proprietors.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £264.

12/3/30

GAS, ELECTRICITY AND WATER COUNTRY TABLES

Monthly index of employment of operatives
(average employment in 1948 = 100)

Larger undertakings

TABLE 26

Month	Monthly index (a)			Month	Monthly index (a)		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
January	97.0	96.4	97.0	August	101.4	100.9	101.3
February	97.5	96.6	97.4	September	101.5	101.8	101.5
March	97.9	97.9	97.9	October	101.1	103.4	101.2
April	98.7	97.1	98.5	November	102.7	104.0	102.8
May	99.3	98.5	99.2	December	102.8	103.8	102.9
June	99.6	99.3	99.6	Percentage employment in this trade covered by the index	100.0	100.0	100.0
July	100.6	100.3	100.6				

(a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger undertakings that made returns for the calendar year 1948.

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