THIRTY-FIRST

ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

IRELAND

FOR THE YEAR ENDED MARCH 31st

1958

INCLUDING REPORT ON FISHERIES

(Pr. 4594)

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ALEX. THOM & CO., LTD., DUBLIN.

ELECTRICITY SUPPLY BOARD

R. F. BROWNE, *Chairman*

J. P. DIGBY

T. MacMAHON, B.E., B.Sc.

HENRY KENNEDY, M.A., D.Sc.

J. A. RYAN

Secretary :

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Chief Engineer :

P. G. MURPHY, B.Sc., M.E., M.I.E.E., M.I.Mech.E.

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ELECTRICITY SUPPLY BOARD

REPORT AND ACCOUNTS

YEAR ENDED 31st MARCH, 1958

(Including Report on the Fisheries)

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REPORT

OF THE

ELECTRICITY SUPPLY BOARD

27 Lower Fitzwilliam Street,
Dublin.

TO THE MINISTER FOR INDUSTRY AND COMMERCE

In accordance with Section 7 (4) and Section 32 (1) of the Electricity (Supply) Act, 1927, the Board presents the Annual Report and Accounts for the year ended 31st March, 1958.

Although trading conditions were difficult during the year, expansion in the sales of electricity continued. The rate of increase which had dropped by the end of August to 4.1%, showed a recovery for the whole year to 7.7%. In the previous year the increase was 4.7%. This change would seem to reflect the improvement in the general economic situation in the second half of the year 1957-58, although the growth was owing mainly to consumption for domestic purposes.

The total number of units generated was 1,771 millions, as compared with 1,644 millions, an increase of 127 million units. The output of the hydro stations at 702 million units was slightly above average ; the output of the peat stations was 525 million units. Thus, the generation from native resources for the year was 69% of the total. The sources of supply were as follows :—

Hydro	40%
Peat (sod)	22%
Peat (milled)	7%
Oil and/or coal	31%

The sale of electricity, especially in the domestic field, was pursued with vigour. The number of consumers increased by 22,435 to give a total of 570,345. Of this increase 17,725 were from rural areas. The revenue from sales amounted to £12,903,000, an increase of £1,348,000 over the previous year. It may be stressed that the average price of electricity remains relatively low, and in recent years is considerably behind the level of commodity prices generally. As compared with a figure of 1.47d. in the year 1939, the average price per unit sold is still only 2.17d. A marked factor in keeping

the price low was the rapid growth of technical efficiency in the field of electricity production and supply and, in addition, there was the utilisation of capital investment in plant at prices more favourable than those now obtaining.

The installed generating plant is adequate to meet anticipated demands in the near future.

The summarised revenue and expenditure figures in respect of electricity supply are :—

	Year ended 31st March, 1958 £	Year ended 31st March, 1957 £
Gross revenue	12,947,602	11,601,754
Working expenditure on wages, fuel and other materials and overheads	6,841,176	6,211,874
	£6,106,426	£5,389,880
This surplus is subject to the following capital charges :—		
Interest	3,268,110	2,739,034
Provision for plant renewal	2,347,000	2,012,000
Capital redemption	685,899	636,955
Leaving Deficiency (—)/Surplus(+)	—194,583	+1,891

The deficiency of £194,583 is reduced to £180,017 when account is taken of the profit of £14,566 from the Merchandise and Installation Accounts. The balance forward from last year £124,851 together with an amount of £166,502, set aside in earlier years for a potential income tax liability, and not now necessary, will absorb this deficiency of £180,017 and leave sufficient to write off £72,439, flotation costs of the 6% Stock Issue, and to cover £16,551 in respect of fisheries losses. As a result, £22,346 will remain to the credit of the Net Revenue Account to be carried forward to next year. The Contingency and Fuel Equalisation Reserves are unchanged at £1,000,000 and £500,000, respectively.

The increase in total expenditure for the year was £1,542,300. This trend is inevitable when it is considered that £578,000 related to interest and capital repayments, and £335,000 to provisions for plant renewals. Fuel costs were higher by £365,000. The generation from fuel increased from approximately 954 million units to 1069 million units. In addition the price of fuel was considerably increased as a result of the Suez crisis. The import duty on oil continued at the same level as last year, and involved an expenditure of approximately £124,000.

The work under the Rural Electrification Scheme has progressed so rapidly that 75% has now been completed. The remaining 25% is taking the development into sparsely populated areas. Consequently further development, without a

subsidy, will be still more uneconomic than for the areas already complete. It is estimated that the annual loss per area will be about £3,000. The Rural Revenue Account shows a loss for the year of £552,197, which loss will continue to grow. The financial burden which has been thrust on the Board by the retrospective removal of the subsidy must be regarded as inequitable, and strong representations have been made for some relief. In most countries work of this nature has been rendered possible only with State aid. (Note : Since the end of the financial year it has been intimated to the Board that the subsidy will be restored in respect of areas yet to be developed).

CAPITAL

The value of plant brought into commission was £12,038,404 of which £3,384,347 related to Rural Electrification. The total investment in assets in productive use at the end of the year was :—

	£
Generation	43,609,009
Transmission	13,034,350
Distribution (incl. Rural £21,661,749)	34,395,097
Premises, equipment, transport, etc.	2,799,525
	£93,837,981

In addition, expenditure of £4,274,402 was incurred on new capital works still under construction at the end of the year. The total fixed capital investment, therefore, was over £98,000,000.

At the 31st March, 1958, the net balance available towards the replacement of wasting assets was £19,545,156. The policy of continuing to make replacement provisions beyond the normal term, as long as plant remains in commission, is being maintained.

BORROWING POWERS

The capital requirements for the year were provided from available depreciation funds augmented by advances from the Minister for Finance. An issue of £5,000,000 Electricity Supply Board 6% Stock was made in March, the proceeds of which will be used to finance the capital programme. This Stock was issued at par and was fully subscribed.

The Electricity (Supply) Acts authorise the Board to incur capital expenditure not exceeding £100,000,000 for its general purposes. At the 31st March, 1958, the Board had approved expenditure totalling £92,686,480 of which £72,176,232 represented electricity assets actually in commission at that date, the balance £20,510,248 representing either work in progress or work authorised.

The amount similarly authorised for Rural Electrification is £25,000,000. At the 31st March, 1958, the amount approved was £23,615,072 of which £21,661,749 represented assets in commission, and £1,953,323 work in progress or authorised.

SALE OF ELECTRICITY AND NUMBER OF CONSUMERS

The number of units generated and sold, the revenue, the average price per unit and the number of consumers for each of the last twenty-nine years are shown in the following table :—

Year ended 31st March	Units generated (and purchased) millions	Units sold millions	Revenue from sales of energy thousands	Average price in pence per unit sold	Total consumers
			£		
1930 ...	60·948	43·177	478	2·66	48,606
1931 ...	119·843	85·500	735	2·06	69,045
1932 ...	151·844	110·677	939	2·04	78,511
1933 ...	166·076	120·099	1,044	2·09	83,052
1934 ...	185·383	138·503	1,150	1·99	91,267
1935 ...	206·106	156·964	1,258	1·92	103,037
1936 ...	244·099	187·016	1,430	1·84	116,704
1937 ...	284·118	218·758	1,584	1·74	130,483
1938 ...	314·477	244·460	1,725	1·69	145,230
1939 ...	377·637	295·259	1,901	1·54	160,382
1940 ...	406·999	318·552	1,946	1·47	172,545
1941 ...	435·864	345·231	2,072	1·44	183,747
1942 ...	450·412	357·252	2,183	1·47	200,419
1943 ...	414·363	328·052	2,224	1·63	210,475
1944 ...	442·893	346·938	2,426	1·68	222,013
1945 ...	406·273	319·010	2,458	1·85	228,008
1946 ...	483·626	379·094	3,062	1·94	237,136
1947 ...	571·876	453·655	3,589	1·90	248,030
1948 ...	619·966	492·149	3,863	1·88	262,598
1949 ...	710·215	569·257	4,344	1·83	284,198
1950 ...	784·776	626·174	4,774	1·83	310,639
1951 ...	972·951	770·377	5,584	1·74	343,376
1952 ...	1,032·697	835·326	6,531	1·88	372,743
1953 ...	1,163·616	929·641	7,628	1·97	402,395
1954 ...	1,295·520	1,051·746	8,517	1·94	435,985
1955 ...	1,461·736	1,192·172	9,522	1·92	461,901
1956 ...	1,573·150	1,306·642	10,465	1·92	509,546
1957 ...	1,647·713	1,352·642	11,555	2·05	547,910
1958 ...	1,774·821	1,424·645	12,903	2·17	570,345

Appendix I gives details of the number of consumers and certain other particulars relating to supply.

ANALYSIS OF UNITS SOLD

The following table gives an analysis of the units sold in the main categories of supply :—

Class of Supply	Units Sold		Increase	Percentage increase
	Year ended 31st March, 1958 millions	Year ended 31st March, 1957 millions	millions	
Domestic ...	610·609	568·013	42·596	7·5
General Lighting	87·363	80·241	7·122	8·9
General Heating, Cooking and Water Heating, (excluding Night Storage Heating) ...	148·922	142·008	6·914	4·9
Night Storage Heating ...	91·902	85·435	6·467	7·5
Motive Power ...	442·357	432·512	9·845	2·3
Public Lighting	31·251	30·451	0·800	2·6
Traction ...	0·266	0·261	0·005	1·9
Miscellaneous ...	11·975	13·721	—1·746	—12·7
Totals ...	1,424·645	1,352·642	72·003	5·3

SALES OF APPLIANCES

The sales of appliances continued to be affected by the import levies and amounted to £603,831 as compared with £615,958 in the preceding year. The rate of gross profit was 19.1%. The Merchandise Trading Account, having been charged with overhead expenses and interest on working capital, showed a profit of £7,016.

CONSUMERS' INSTALLATIONS

The credit taken for contracts completed and invoiced for work carried out amounted to £367,042 as compared with £355,125 for the preceding year. The rate of gross profit was 18.6%. Having debited to the Installations Trading Account overhead expenses and interest on working capital, there was a net profit of £7,550.

GENERATION

The output statistics for the generating stations and the corresponding figures for the preceding year are shown in the following table :—

Station	Year ended 31st March, 1958			Year ended 31st March, 1957
	Generated million units	Station use million units	Sent out million units	Sent out million units
Ardnacrusha...	310·097	3·276	306·821	363·576
Cliff	79·257	0·820	78·437	79·828
Cathaleen's Fall	196·540	2·445	194·095	192·446
Carrigadrohid	15·072	0·150	14·922	—
Inniscarra ...	53·070	0·561	52·509	—
Pollaphuca ...	24·262	0·754	23·508	22·973
Golden Falls ...	9·212	0·123	9·089	8·603
Leixlip ...	14·796	0·185	14·611	14·177
Portarlington	138·310	8·358	129·952	116·496
Allenwood ...	230·753	14·739	216·014	178·746
Ferbane ...	133·872	10·829	123·043	2·068
Cahirciveen ...	3·370	0·314	3·056	—
Miltown-Malbay	12·911	1·260	11·651	0·566
Screeb ...	5·524	0·441	5·083	—
Gweedore ...	0·379	0·036	0·343	—
Pigeon House	3·246	2·557	0·689	28·539
North Wall ...	45·620	4·016	41·604	84·507
Ringsend ...	291·065	17·358	273·707	252·736
Marina (Cork)	203·906	10·472	193·434	232·171
Purchased ...	3·559	—	3·559	3·914
Totals ...	1,774·821	78·694	1,696·127	1,581·346
Maximum daily generation, million units			7·044	6·221
Maximum load generated in kW			412,000	378,000

The units generated and purchased showed an increase of 127.108 million units, or 7.7% higher than the preceding year. The annual load factor, on the basis of units generated, was 49.1% as compared with 49.6% in the previous year. The 3,559,000 units purchased include 1,422,000 units from the Electricity Board for Northern Ireland.

An analysis of the cost of generation appears in the Electricity Production Account. For reference purposes the following information is given in the Appendices :—

Generation load duration, and integrated load duration curves	Appendix III
Monthly outputs of the generating stations	Appendix V
Performance of generating plant	Appendix VI
Particulars of the generating plant.....	Appendix VII
Typical daily generation load curves	Appendix VIII
Weekly generation and peak loads	Appendix XIII
Annual generation from 1st April, 1930 to 31st March, 1958	Appendix XIV

GENERATING STATIONS

The installed capacity of the Board's generating stations at the 31st March, 1958 amounted to 649,500 kW, comprising 434,500 kW of steam plant and 215,000 kW of hydro plant. These figures include 95,000 kW of steam plant in Pigeon House, which is now operated only as a stand-by station.

New steam stations at Arigna (15,000 kW coal-fired), at Lanesborough (20,000 kW peat-fired), at Rhode (40,000 kW peat-fired) and at Bellacorick (40,000 kW peat-fired) are at present under design or construction and will increase the steam plant capacity to 549,500 kW. This, together with the 4,000 kW hydro plant under construction at Clady, will increase the total installed capacity to 768,500 kW.

Details of the stations under design or construction, together with stations commissioned during the year, are set out hereunder :—

HYDRO-ELECTRIC STATIONS :

River Lee (Co. Cork) : (Inniscarra : 1—15,000 kW and
1— 4,000 kW set.
Carrigadrohid : 1— 8,000 kW set).

The construction of the dams and power stations at Inniscarra and Carrigadrohid were completed and both reservoirs were filled.

At Inniscarra the 4,000 kW set was commissioned on the 24th May, 1957 and the 15,000 kW set on the 21st August, 1957. At Carrigadrohid the 8,000 kW set was put into operation on the 1st November, 1957. The plant installation in both stations is now complete.

River Clady (Co. Donegal) : (Clady : 1—4,000 kW set.)

The construction of the Cung Dam at Dunlewy Lough and the weir at Gweedore was almost completed. The water level at Gweedore weir had been partially raised. Work on the building of the banks and the lining of the head race canal was nearly finished. The erection of the superstructure of the power station was in progress. Erection of the mechanical and electrical plant was about to commence.

The station is expected to be in commission towards the end of 1958.

STEAM STATIONS :

Ferbane (Co. Offaly) : (3—20,000 kW Sets. Milled Peat.)

The civil engineering works for the three generating sets including the turbine house, boiler house and all auxiliary works were completed. The general clearing of the site was almost finished.

Following the commissioning of the first set on 1st March, 1957, the erection of the second and third sets with associated boilers, electrical equipment and fuel handling plant was completed. The second set was commissioned on 21st June, 1957, and the third on 19th November, 1957. The plant installation is complete.

Boiler units are passing through an experimental period, and trials and adjustments are proceeding.

Four Hand-won Peat-fired Stations

Miltown-Malbay (Co. Clare) Screeb (Co. Galway)
Cahirciveen (Co. Kerry) Gweedore (Co. Donegal)
(Each Station : 1—5,000 kW Set.)

Screeb station was brought into operation on 31st July, 1957, Cahirciveen on 22nd October, 1957 and Gweedore on 14th March, 1958. Miltown-Malbay had been commissioned on 1st March, 1957.

Arigna (Co. Roscommon) : (1—15,000 kW Set. Coal.)

All civil construction works were nearing completion.

Work on the erection of the mechanical and electrical plant was well advanced and it is expected that the station will be in operation in August, 1958.

Lanesborough (Co. Longford) : (1—20,000 kW Set. Sod Peat.)

The civil construction work was almost completed. The internal finish of the buildings and the general clearing of the site were in progress.

The erection of all the mechanical and electrical plant was nearly finished and it is hoped to have the Station in commission early in August, 1958.

Rhode (Co. Offaly) : (2—20,000 kW Sets. Milled Peat.)

Satisfactory progress was maintained on the civil construction works. The erection of the structural steelwork for the station buildings was nearing completion. Work was well advanced on the cladding of the engine room, office block, stores and control room buildings. The shell of the cooling tower which will be 260 feet high was completed to a height of 233 feet and the cooling water culverts were almost finished.

Construction of the structural steel work for the bunkers and boiler frames was in progress, and erection of the boiler was about to commence.

Almost all the outstanding mechanical and electrical plant had been ordered.

The station is expected to be in operation in 1960.

Bellacorick (Co. Mayo) : (2—20,000 kW Sets. Milled Peat.)

The site for the station has been acquired and the boilers and turbo sets have been ordered.

It is anticipated that the station will be ready for commission in 1962/63.

MAIN TRANSMISSION SYSTEM

Maintenance and Repair :

The adequate maintenance of the network of high voltage (38 kV and 110 kV) stations and lines, which comprises the transmission system, is becoming increasingly difficult as a large proportion of the network is thirty years in service. A special study was initiated of possible methods of improving the strength of the old steel pole lines to withstand the effects of severe storm, such as was experienced in the Dungarvan-Midleton area during last Christmas.

New Extensions :

Investment in extensions continued but at a rather smaller rate than in previous years. The most important are described below.

(a) 110 kV Overhead Lines :

The line from the River Lee generating stations to Kilbarry transformer station, Cork, was completed and put into service. The branch line from the main Ardnacrusha/Carrick-on-Shannon line to Lanesborough generating station was erected. The line to the Cahirciveen station was completed and changed over from 10 kV operation to 110 kV.

The line from Carrickmines transformer station to Arklow, in connection with the supply to the copper mines at Avoca, was completed and put in commission. Work on the short branch line to the new 110 kV transformer station at Limerick was commenced.

Survey of the 110 kV lines for the supply to the oil refinery at Whitegate, Co. Cork, was almost completed, and the construction of the first line was well advanced. The design of the short connection from the new Arigna generating station to the Erne/Carrick-on-Shannon line was completed.

(b) 110 kV Transformer Stations :

The Carrickmines station was placed permanently in commission with two 30 MVA transformers. A new station at Arklow was constructed with one 10 MVA transformer. This station is ready for commissioning when required.

Work was commenced on the new stations at Whitegate, Co. Cork and at Limerick.

(c) 38 kV Overhead Lines :

About 36 miles of 38 kV lines were erected and approximately $1\frac{1}{2}$ miles were retired from service.

(d) 38 kV Transformer Stations :

Ten stations were completed and put into commission :

Carrickmacross	Co. Monaghan
Clondalkin	Co. Dublin
Corbally	Limerick
Drumquin	Co. Clare
Leighlinbridge	Co. Carlow
Loughrea	Co. Galway
Malahide	Co. Dublin
Tulla	Co. Clare
Wexford (North)	Co. Wexford
Whitehall	Dublin

Six 38 kV Stations were retired from service, of which two, viz., Leighlinbridge and Tulla, were replaced by larger stations.

(e) Underground Cables :

A length of about two miles of 38 kV oil-filled cable was laid from the existing 38 kV transformer station at East Wall Road to the new 38 kV transformer station site at Gloucester Place, Dublin. To connect the new Whitehall 38 kV transformer station in to the existing network, about 0.1 miles of 38 kV oil-filled cable was laid and commissioned.

TRANSMISSION AND DISTRIBUTION SYSTEMS

The following extensions and alterations to the high tension and low tension networks were carried out :—

1. Low tension overhead mains erected ..... 24·38 miles
2. Low tension overhead mains reconstructed or strengthened .... 19·40 ,,

3. Low tension underground mains—net increase	4·38	miles
4. 10 kV underground cables—net increase	10·61	,,
5. 10 kV overhead distribution lines (excluding rural lines)—net increase	43·62	,,
6. 38 kV overhead transmission lines—net increase	34·80	,,
7. 38 kV underground cables installed	1·80	,,
8. 110 kV overhead transmission lines erected	66·00	,,
9. Rural lines erected	3,332·00	,,

One hundred and six 10 kV and five 5 kV transformer stations were completed ; thirteen 10 kV transformer stations were retired from service. The operating voltage was increased from 5 kV to 10 kV in fourteen stations.

Appendix IX tabulates the data for the transmission and distribution systems at the end of the year. A map and a diagram showing the existing and projected transmission lines and stations will be found in Appendices XV and XVI respectively.

RURAL ELECTRIFICATION

The progress of the Rural Electrification Scheme is shown in the table below :—

Period	Poles Erected	Miles of Line Strung	Consumers Connected	Areas Completed
Year ended 31st March				
1947 ...	1,300	39	Nil	Nil
1948 ...	15,986	721	2,203	7
1949 ...	32,002	1,730	9,262	30
1950 ...	40,972	2,083	13,688	45
1951 ...	42,423	2,232	15,803	49
1952 ...	46,008	2,466	18,067	49
1953 ...	48,059	2,703	18,818	49
1954 ...	68,382	3,769	23,477	60
1955 ...	91,391	4,977	27,316	75
1956 ...	112,616	6,196	34,257	99
1957 ...	91,794	5,149	34,627	80
1958 ...	61,696	3,332	17,725	60
Totals ...	652,629	35,397	215,243	603

The target of 60 areas for the year was reached. 772 areas, or 96% of the total have been canvassed, 639, or 80% selected for development and 603, or 75% completed.

The 603 areas completed cover 16,799 square miles or an average of 27.9 square miles per area. A further 36 areas are under construction or selected for development, making a total of 639 areas or 17,964 square miles. The proportion of dwellings connected in the completed areas is approximately 75%.

The total value of materials used was approximately £1,490,000 of which 69%, or £1,028,000 was obtained from home manufacturers. Prices in general remained steady but there was a decrease of about 2% in the price of transformers. Most of the materials for construction work were transported by road, but six cargoes were shipped by coastal steamers to areas on the western and northern seaboard.

Capital expenditure during the year amounted to £2,474,212 and the total invested in the Scheme to 31st March, 1958 was £23,051,138.

The consumption of electricity by the rural community has continued to increase with the growth of consumers, being 273 million units as against 244 million units last year. The average consumption per consumer was 1,252 units as against 1,275 units last year. The limited use of electricity by new consumers tends to offset the greater consumption of those connected in earlier years.

Sales of current amounted to 272,882,137 units, or 11·8% more than last year. The revenue earned was £3,362,098 which represents a price per unit of 2·96d.

The year generally was marked by a curtailment in the sales of appliances and the total value of sales for the year was about 13% below that for 1956/57. The reduction is largely owing to the import levies, and to the fact that the grant for farm water supplies was not restored until August, 1957. From September onwards there was a marked improvement and there are indications that the farmer is becoming more aware of the advantages of electric motors and electrically driven appliances in his farmyard.

Demonstrations and displays of both farmyard and household equipment were continued through the year. A full scale exhibition farmyard was erected for the Spring Show in the Simmonscourt extension of the Royal Dublin Society grounds. The exhibition attracted considerable attention and favourable comment. An older type farm kitchen converted to suit modern living conditions, in collaboration with the Irish Countrywomen's Association, the Department of Agriculture and the Royal Institute of the Architects of Ireland, was a major attraction. At the close of the year a mobile unit modelled on the kitchen commenced a tour of the country. Experts in different subjects gave lectures and demonstrations.

Liaison and co-operation with the various County Engineers was well maintained, particularly in connection with group water supply schemes. At the close of the year arrangements had been made to instal twenty-nine such schemes in Co. Cork.

Co-operation continued between the Board and the Kildare County Committee of Agriculture in connection with pilot farms sponsored by the Committee. A considerable amount of electrical equipment is now in use on two farms and is attracting much interest.

WATER STORAGE AND RIVER CONTROL

The inflows at the hydro plants were generally about 90% of the long term mean flows. From May to mid-August the inflows were well below the normal but in the remaining months the distribution of the flows was favourable for power production. The utilisation of the available inflows at the power stations varied between 99·5% and 100% except in the case of the River Lee which was in commission for part of the year only.

The important hydrometric figures at the hydro-electric stations are given in Appendix VI.

The total average inflows were :—

	Financial year ended 31st March 1958	Calendar Year 1957
	Cbm/sec.	Cbm/sec.
River Shannon at Killaloe	163·2	189·6
,, Liffey at Pollaphuca	8·8	8·3
,, Liffey at Leixlip	15·0	15·1
,, Erne at Ballyshannon	91·4	94·8
,, Lee at Inniscarra	27·4	27·2

WATER POWER INVESTIGATIONS AND HYDROMETRIC SURVEY

In accordance with Section 28 of the Electricity (Supply) Act, 1927, the Board continued its investigations into water power resources.

The collection of data with a view to the investigation and possible later development of the further water power resources continued. The total number of undeveloped rivers under observation, excluding the Lee and the Clady, was seventeen, namely :—

Boyne
Lackagh
Eske Upper
Eske Lower } (Co. Donegal)
Owenea
Leanan
Ballisodare (Co. Sligo)
Owenglin (Connemara)

Barrow
Nore
Avonmore (Co. Wicklow)
Caragh
Flesk
Torc } (Co. Kerry)
Owgarriff
Cummeragh
Slaney

The collection of hydrometric data on the Rivers Shannon, Liffey, Erne, Lee and Clady was also continued.

PREMISES

Satisfactory progress was maintained in the provision of new and improved office, stores and showrooms accommodation.

At the outlying generating stations the provision of houses for the staffs and their families was continued. The houses at Ferbane were completed and construction work at Lanesborough and Arigna commenced. Work was about to commence at Inniscarra, Cahirciveen, Miltown Malbay, Screeb and Gweedore. Site investigation was in progress for houses at Rhode.

Five new service depots were completed and a further three were reconstructed. Structural improvements to twenty-one other such depots were being carried out or planned.

PERMITTED UNDERTAKINGS

During the year the Board acquired the following undertakings :—

Collooney, Co. Sligo,
Drumkeeran, Co. Leitrim,
Kenmare, Co. Kerry,
Malin, Co. Donegal.

Two new permits were issued during the year. At the 31st March, 1958, there were ten electricity undertakings operating under permit from the Board.

Particulars of the permitted undertakings, except where the number of consumers is three or under, are contained in Appendix X.

SUPERANNUATION SCHEMES

The number of contributing members in the General Employees' Superannuation Scheme at the end of the year was 1,840, and in the Manual Workers' Superannuation Scheme, 2,376.

The total amount invested by the Trustees of the Superannuation Funds in loans to the Board under Section 8 of the Electricity Supply Board (Superannuation) Act, 1942, at the end of the year was £4,275. The Trustees hold £2,029,880 of Electricity Supply Board 5% Stock 1966/75 and £400,000 of E.S.B. 6% Stock, 1968/78.

TRIBUNALS TO DETERMINE DISPUTES

The reports of the proceedings of the General Employees' and of the Manual Workers' Tribunals respectively, for the year ended 31st March, 1958, are reproduced in Appendices XI and XII.

STAFF

At the 31st March, 1958, the numerical strength of the Board's regular staff was 5,231. In addition there was a casual staff of 2,076.

The Board desires to record again its appreciation of the efficient manner in which the members of the staff performed their duties.

MEMBERSHIP OF THE BOARD

Dr. T. A. McLaughlin and Mr. J. M. Fay ceased to be members of the Board on the 31st October, 1957, having served for twenty-nine and twenty-eight years respectively. During their tenure of office they rendered valuable service.

(Signed) R. F. BROWNE, Chairman.
J. P. DIGBY.
HENRY KENNEDY.
T. MacMAHON.
J. A. RYAN.

(Signed) PATRICK J. DEMPSEY, Secretary.

17th June, 1958.

REPORT

ON THE

FISHERIES

27 Lower Fitzwilliam Street,
Dublin.

TO THE MINISTER FOR INDUSTRY AND COMMERCE

In accordance with the provisions of the Shannon Fisheries Act, 1935 and the Electricity (Supply) (Amendment) Act, 1945, the Board presents the Annual Report and Accounts for the year ended 31st March, 1958.

RIVER SHANNON FISHERIES

The sales, as shown in the Trading Account, of salmon and eels, the leasing of angling rights, and miscellaneous income amounted to £20,484 compared with £20,897 in the preceding year. Interest and sinking fund charges on the capital invested in the fisheries amounted to £5,585 compared with £5,107 last year. Fishery rates totalled £3,808 and depreciation £2,260. Having allowed for these expenses and having also charged for the operation, preservation and protection of the fisheries of the river, the Profit and Loss Account showed a deficit of £9,768 for the year compared with a deficiency of £8,913 last year.

SALMON FISHERIES

Commercial salmon fisheries were operated on the lower Shannon and at Thomond Weir, Limerick. Following the success of experiments in the previous year, salmon were killed electrically. The highest prices continued to be obtained in export markets for the Board's salmon. The following table shows the recorded run of fish through Thomond Weir during the period under review compared with previous years.

Year ended 31st March		Recorded run through Thomond Weir
1948	.....	8,809
1949	.....	10,261
1950	.....	12,551
1951	.....	14,403
1952	.....	14,653
1953	.....	10,289
1954	.....	17,408
1955	.....	13,629
1956	.....	9,433
1957	.....	12,542
1958	.....	13,032

The average weight of salmon captured at Thomond Weir was 9·0 against 8·9 lbs. in the preceding year. Grilse averaged 5·7 compared with 5·3 lbs. Four stake weirs were operated in the estuary of the Shannon and the average weight of salmon taken was 9·6 compared with 9·3 lbs. for the previous year, while the average weight of the grilse was 5.3 compared with 4·8 lbs.

The proceeds from sales of salmon were £13,840 as compared with £14,828 last year.

EEL FISHERIES

A survey of the eel stocks in the Shannon catchment was made. The river is under-stocked and experiments in re-stocking with young elvers were carried out.

The take from the eel weir at Killaloe was 23,568 against 15,778 lbs. for the previous season. The receipts from the sale of eels amounted to £3,875 compared with £2,986 in the previous year.

SALMON ROD FISHERIES

The revenue from the leasing of angling rights and the sale of angling permits amounted to £1,463 against £1,517 in the previous year.

FISHERIES DEVELOPMENT

The programme for the rehabilitation of the stocks of salmon in the Shannon continued to make progress. The new fish pass at Ardnacrusha was almost completed.

The construction of a salmon hatchery and ancillary works was completed during the year and the hatchery was in operation. The fry will be planted out in suitable feeder

streams in due course. As an essential part of the salmon development programme, a survey of the pike and perch stocks in Lough Derg was carried out. The survey disclosed that the lake is overstocked with these species to the detriment of the species themselves and of other fish stocks. A reduction in stocks of pike and perch is necessary in the interests of the fishery as a whole. Under the terms of a permit issued by the Minister for Lands, experimental netting of pike and perch took place in Lough Derg. To make the operation as economical as possible, the Board succeeded in obtaining an export market for the fish.

RIVER ERNE

The recorded run of salmon was 1,482 of which less than 20% was taken. The proceeds from the sales of salmon were £551.

RIVER LEE

The altered regime of the river following hydro-electric development was kept under observation.

(Signed) R. F. BROWNE, Chairman.
J. P. DIGBY.
HENRY KENNEDY.
T. MacMAHON.
J. A. RYAN.

(Signed) PATRICK J. DEMPSEY, Secretary.

17th June, 1958.

APPENDICES

LIST OF APPENDICES

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I—Number of consumers and other particulars relating to areas supplied by the Board

II—Rural Electrification

III—Generation load duration and integrated load duration curves

IV—Distribution at high tension of units generated

V—Monthly outputs of the generating stations

VI—Performance of generating plant

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IX—Transmission and distribution systems in commission

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XV—Map of transmission system

XVI—Diagram of transmission lines

Number of Consumers and other particulars relating to areas supplied by the Board

District	Approx. Population thousands	No. of Consumers at 31st March		Motive Power Units sold year ended 31st March	
		1958	1957	1958 thousands	1957 thousands
ATHLONE	**173·0**	**32,207**	**30,585**	**17,332**	**16,025**
Town	44·9	11,149	11,036	15,895	14,916
Rural	*128·1*	*21,058*	*19,549*	*1,437*	*1,109*
CORK No. 1	**112·0**	**27,910**	**27,408**	**37,493**	**33,517**
Town	112·0	27,910	27,408	37,493	33,517
Rural	—	—	—	—	—
CORK No. 2	**170·6**	**35,661**	**33,322**	**23,417**	**21,465**
Town	53·4	14,644	14,467	16,922	16,044
Rural	*117·2*	*21,017*	*18,855*	*6,495*	*5,421*
DUBLIN No. 1	**494·7**	**125,995**	**125,118**	**100,934**	**99,759**
Town	494·7	125,995	125,118	100,934	99,759
Rural	—	—	—	—	—
DUBLIN No. 2	**238·0**	**69,848**	**68,094**	**63,398**	**58,834**
Town	164·4	54,608	52,969	54,127	47,644
Rural	*73·6*	*15,240*	*15,125*	*9,271*	*11,190*
DUNDALK	**207·1**	**40,234**	**38,056**	**55,162**	**65,172**
Town	72·3	18,296	18,194	49,513	60,970
Rural	*134·8*	*21,938*	*19,862*	*5,649*	*4,202*
GALWAY	**183·2**	**32,922**	**31,630**	**7,967**	**6,861**
Town	44·6	10,186	10,044	6,817	5,805
Rural	*138·6*	*22,736*	*21,586*	*1,150*	*1,056*
LIMERICK	**260·0**	**54,335**	**52,316**	**44,742**	**44,321**
Town	95·6	23,654	23,582	38,433	38,291
Rural	*164·4*	*30,681*	*28,734*	*6,309*	*6,030*
PORTLAOISE	**176·9**	**37,412**	**35,182**	**40,785**	**38,917**
Town	65·6	17,221	16,983	34,526	33,847
Rural	*111·3*	*20,191*	*18,199*	*6,259*	*5,070*
SLIGO	**276·2**	**44,527**	**40,970**	**11,456**	**9,896**
Town	45·3	11,515	11,609	5,343	4,892
Rural	*230·9*	*33,012*	*29,361*	*6,113*	*5,004*
TRALEE	**125·0**	**25,419**	**23,515**	**7,152**	**6,670**
Town	29·2	7,485	7,536	4,597	4,928
Rural	*95·8*	*17,934*	*15,979*	*2,555*	*1,742*
WATERFORD	**223·7**	**43,875**	**41,714**	**33,041**	**31,617**
Town	95·2	23,789	23,628	21,980	21,234
Rural	*128·5*	*20,086*	*18,086*	*11,061*	*10,383*
Totals	**2,640·4**	**570,345**	**547,910**	**442,879**	**433,054**
Town	1,319·7	346,452	342,574	386,580	381,847
Rural	*1,320·7*	*223,893*	*205,336*	*56,299*	*51,207*

Areas and Towns Supplied	Approx. Population thousands	No. of Consumers at 31st March		Motive Power: Units sold year ended 31st March	
		1958	1957	1958 thousands	1957 thousands
ATHLONE DISTRICT					
ATHLONE AREA ...	**24·8**	**5,268**	**4,401**	**4,447**	**4,213**
Athlone	9·0	2,407	2,372	4,338	4,102
Moate	1·3	289	284	46	51
Rural Areas	*14·5*	*2,572*	*1,745*	*63*	*60*
BALLINASLOE AREA ...	**15·3**	**2,410**	**2,391**	**1,792**	**1,559**
Ballinasloe	5·6	809	785	1,236	1,047
Villages under 1,000 population	*·2*	*76*	*77*	*242*	*273*
Rural Areas	*9·5*	*1,525*	*1,529*	*314*	*239*
BIRR AREA	**24·1**	**4,567**	**4,405**	**1,112**	**900**
Birr and Crinkle	3·6	827	823	296	261
Villages under 1,000 population	*2·3*	*845*	*807*	*334*	*176*
Rural Areas	*18·2*	*2,895*	*2,775*	*482*	463
LONGFORD AREA ...	**34·2**	**5,956**	**5,391**	**970**	**847**
Granard	1·2	255	259	17	63
Longford	3·8	1,040	1,047	306	290
Villages under 1,000 population	*1·2*	*361*	*353*	*445*	*403*
Rural Areas	*28·0*	*4,300*	*3,732*	*202*	*91*
MULLINGAR AREA ...	**32·4**	**6,273**	**6,264**	**1,035**	**933**
Mullingar	5·6	1,409	1,398	895	829
Rural Areas	*26·8*	*4,864*	*4,866*	*140*	*104*
ROSCOMMON AREA ...	**20·6**	**3,941**	**3,922**	**1,679**	**1,664**
Roscommon	2·0	559	551	1,512	1,526
Rural Areas	*18·6*	*3,382*	*3,371*	*167*	*138*
TULLAMORE AREA ...	**21·6**	**3,792**	**3,811**	**6,297**	**5,909**
Clara	1·7	494	509	2,020	2,191
Tullamore	6·2	1,489	1,486	4,154	3,659
Villages under 1,000 population	*1·2*	*289*	*285*	*54*	*45*
Rural Areas	*12·5*	*1,520*	*1,531*	*69*	*14*
TOTALS ...	**173·0**	**32,207**	**30,585**	**17,332**	**16,025**
CORK No. 1 DISTRICT					
CORK CITY AREA ...	**112·0**	**27,910**	**27,408**	**37,493**	**33,517**
Cork City	112·0	27,910	27,408	37,493	33,517
TOTALS ...	**112·0**	**27,910**	**27,408**	**37,493**	**33,517**
CORK No. 2 DISTRICT					
BANDON AREA ...	**22·1**	**4,080**	**3,559**	**1,749**	**1,719**
Bandon	3·3	1,042	1,042	649	605
Kinsale	2·1	621	612	129	132
Villages under 1,000 population	*·3*	*22*	*23*	*50*	*44*
Rural Areas	*16·4*	*2,395*	*1,882*	*921*	*938*

Areas and Towns Supplied	Approx. Population thousands	No. of Consumers at 31st March		Motive Power Units sold year ended 31st March	
		1958	1957	1958 thousands	1957 thousands
CORK No. 2 DISTRICT—*continued*					
BANTRY AREA ...	**10·4**	**1,931**	**1,841**	**152**	**152**
Bantry ...	2·3	598	590	111	106
Villages under 1,000 population	*·1*	*157*	*157*	*5*	*5*
Rural Areas	*8·0*	*1,176*	*1,094*	*36*	*41*
CARRIGALINE AREA ...	**14·0**	**2,538**	**2,654**	**858**	**546**
Monkstown ...	2·7	209	209	2	2
Passage West ...		432	431	38	60
Villages under 1,000 population	*1·3*	*392*	*392*	*506*	*441*
Rural Areas	*10·0*	*1,505*	*1,622*	*312*	*43*
CLONAKILTY AREA ...	**10·5**	**1,930**	**1,912**	**908**	**880**
Clonakilty ...	2·7	630	628	348	344
Rural Areas	*7·8*	*1,300*	*1,284*	*560*	*536*
COBH AREA ...	**7·4**	**1,904**	**1,874**	**3,537**	**3,936**
Cobh ...	5·7	1,569	1,556	3,516	3,903
Rural Areas	*1·7*	*335*	*318*	*21*	*33*
DUNMANWAY AREA ...	**9·7**	**2,197**	**2,096**	**909**	**816**
Dunmanway ...	1·4	414	408	99	97
Skibbereen ...	2·3	665	654	168	161
Villages under 1,000 population	*1·4*	*478*	*475*	*574*	*499*
Rural Areas	*4·6*	*640*	*559*	*68*	*59*
FERMOY AREA ...	**20·4**	**4,450**	**3,927**	**1,755**	**1,511**
Fermoy ...	4·0	1,066	1,055	209	211
Mitchelstown ...	2·1	662	658	1,139	937
Villages under 1,000 population	*1·0*	*164*	*163*	*63*	*54*
Rural Areas	*13·3*	*2,558*	*2,051*	*344*	*309*
KILBARRY AREA ...	**23·8**	**4,569**	**4,463**	**2,209**	**1,969**
Villages under 1,000 population	*1·5*	*477*	*456*	*869*	*673*
Rural Areas	*22·3*	*4,092*	*4,007*	*1,340*	*1,296*
MACROOM AREA ...	**6·8**	**2,463**	**2,004**	**441**	**273**
Macroom...	2·3	625	592	174	135
Rural Areas	*4·5*	*1,838*	*1,412*	*267*	*138*
MALLOW AREA ...	**21·6**	**4,513**	**4,489**	**4,943**	**4,066**
Mallow ...	5·6	1,366	1,362	3,138	2,653
Villages under 1,000 population	*1·6*	*493*	*492*	*150*	*155*
Rural Areas	*14·4*	*2,654*	*2,635*	*1,655*	*1,258*
MIDLETON AREA ...	**16·9**	**3,573**	**3,025**	**3,056**	**2,800**
Midleton ...	2·8	792	767	1,677	1,717
Villages under 1,000 population	*2·1*	*602*	*600*	*431*	*325*
Rural Areas	*12·0*	*2,179*	*1,658*	*948*	*758*
YOUGHAL AREA ...	**7·0**	**1,513**	**1,478**	**2,900**	**2,797**
Youghal ...	4·8	1,168	1,145	2,877	2,785
Rural Areas	*2·2*	*345*	*333*	*23*	*12*
TOTALS ...	**170·6**	**35,661**	**33,322**	**23,417**	**21,465**
DUBLIN No. 1 DISTRICT					
DUBLIN CITY AREA ...	**494·7**	**125,995**	**125,118**	**100,934**	**99,759**
Dublin City ...	494·7	125,995	125,118	100,934	99,759
TOTALS ...	**494·7**	**125,995**	**125,118**	**100,934**	**99,759**

Areas and Towns Supplied	Approx. Population thousands	No. of Consumers at 31st March		Motive Power Units sold year ended 31st March	
		1958	1957	1958 thousands	1957 thousands
DUBLIN No. 2 DISTRICT					
BALLYMUN AREA ...	**20·3**	**10,142**	**9,188**	**13,600**	**12,198**
Artane					
Ballymun					
Blanchardstown					
Castleknock	16·3	9,337	8,391	13,290	11,860
Coolock					
Finglas					
Santry					
Rural Areas	*4·0*	*805*	*797*	*310*	*338*
BRAY AREA	**16·3**	**4,884**	**4,803**	**1,462**	**1,380**
Bray	15·0	4,286	4,204	1,395	1,291
Shankill–Loughlinstown ...					
Rural Areas	*1·3*	*598*	*599*	*67*	*89*
CHAPELIZOD AREA ...	**27·3**	**7,728**	**7,729**	**28,248**	**23,265**
Chapelizod					
The Ranch	21·5	5,865	5,869	494	636
Palmerstown					
Clondalkin	2·3	1,060	1,054	26,961	21,948
Bluebell					
Rural Areas	*3·5*	*803*	*806*	*793*	*681*
DUN LAOGHAIRE AREA	**75·9**	**23,461**	**23,096**	**4,067**	**3,833**
Dundrum–Milltown ...					
Dún Laoghaire Borough ...	74·0	22,776	22,404	3,629	3,147
Stillorgan–Ballybrack ...					
Kilternan–Scalp					
Rural Areas	*1·9*	*685*	*692*	*438*	*686*
GRANGE AREA ...	**2·6**	**2,448**	**2,343**	**363**	**348**
Raheny	2·3	2,184	2,080	343	336
Baldoyle					
Rural Areas	*·3*	*264*	*263*	*20*	*12*
GREYSTONES AREA ...	**8·1**	**2,041**	**2,014**	**167**	**194**
Greystones	2·2	763	750	43	46
Delgany–Killincarrig ...	1·6	440	436	10	8
Newtownmountkennedy ...					
Rural Areas	*4·3*	*838*	*828*	*114*	*140*
HOWTH AREA	**5·8**	**1,326**	**1,314**	**319**	**813**
Howth–Sutton	5·8	1,326	1,314	319	813
LEIXLIP AREA	**11·7**	**3,677**	**3,556**	**7,805**	**7,611**
Lucan	1·3	545	443	5,318	5,324
Celbridge	1·5	421	423	211	170
Leixlip					
Maynooth	·8	253	246	110	106
Rural Areas	*8·1*	*2,458*	*2,444*	*2,166*	*2,011*
NAAS AREA	**15·4**	**2,942**	**2,902**	**2,174**	**1,990**
Naas	3·7	900	904	523	497
Rural Areas	*11·7*	*2,042*	*1,998*	*1,651*	*1,493*

Areas and Towns Supplied	Approx. Population thousands	No. of Consumers at 31st March		Motive Power: Units sold year ended 31st March	
		1958	1957	1958 thousands	1957 thousands
DUBLIN No. 2 DISTRICT—*continued*					
SKERRIES AREA ...	**13·5**	**2,605**	**2,599**	**702**	**678**
Balbriggan	2·9	716	711	375	347
Skerries	2·5	761	752	104	82
Rural Areas	*8·1*	*1,128*	*1,136*	*223*	*249*
SWORDS AREA	**13·4**	**3,676**	**3,675**	**1,481**	**1,391**
Malahide	3·1	883	885	131	121
Portmarnock					
Rush	1·9	584	596	102	88
Swords	1·1	423	423	168	188
Rural Areas	*7·3*	*1,786*	*1,771*	*1,080*	*994*
KILCOCK AREA (RURAL)	**14·7**	**2,226**	**2,179**	**548**	**485**
Kilcock Rural	*14·7*	*2,226*	*2,179*	*548*	*485*
WICKLOW AREA ...	**13·0**	**2,692**	**2,696**	**2,462**	**4,648**
Rathdrum	1·3	227	226	45	95
Wicklow	3·3	858	858	556	541
Rural Areas	*8·4*	*1,607*	*1,612*	*1,861*	*4,012*
TOTALS ...	**238·0**	**69,848**	**68,094**	**63,398**	**58,834**
DUNDALK DISTRICT					
ARDEE AND CARRICK-MACROSS AREAS ...	**23·8**	**4,963**	**4,385**	**6,455**	**6,356**
Ardee	2·5	580	579	2,018	2,045
Carrickmacross	2·1	606	606	250	266
Villages under 1,000 population	*1·5*	*593*	*571*	*2,489*	*2,966*
Rural Areas	*8·1*	*1,487*	*2,629*	*1,476*	*1,079*
	9·6	*1,697*		*222*	
MONAGHAN AREA ...	**24·4**	**4,406**	**4,038**	**2,017**	**1,974**
Ballybay	1·0	323	321	244	244
Castleblayney	2·2	516	511	493	584
Monaghan	4·7	1,025	995	613	581
Rural Areas	*16·5*	*2,542*	*2,211*	*667*	*565*
CAVAN AREA	**24·3**	**4,294**	**3,743**	**1,879**	**1,876**
Belturbet	1·2	310	306	201	211
Cavan	3·6	889	900	721	725
Villages under 1,000 population	*2·8*	*650*	*634*	*623*	*641*
Rural Areas	*16·7*	*2,445*	*1,903*	*334*	*299*
COOTEHILL AREA ...	**16·6**	**2,807**	**2,822**	**417**	**457**
Clones	2·5	691	689	96	87
Cootehill	1·5	397	398	248	357
Villages under 1,000 population	*·1*	*17*	*18*	*1*	Nil.
Rural Areas	*12·5*	*1,702*	*1,717*	*72*	*13*
DROGHEDA AREA ...	**35·9**	**7,048**	**6,877**	**38,885**	**49,417**
Drogheda	16·8	3,972	3,953	36,658	47,720
Villages under 1,000 population	*·6*	*207*	*207*	*40*	*35*
Rural Areas	*18·5*	*2,869*	*2,717*	*2,187*	*1,662*

Areas and Towns Supplied	Approx. Population thousands	No. of Consumers at 31st March		Motive Power Units sold year ended 31st March	
		1958	1957	1958 thousands	1957 thousands
DUNDALK DISTRICT—*continued*					
DUNDALK AREA ...	**40·2**	**8,925**	**8,859**	**3,878**	**3,602**
Dundalk	19·7	4,751	4,733	3,596	3,347
Villages under 1,000 population	*·8*	*235*	*233*	*21*	*26*
Rural Areas	*19·7*	*3,939*	*3,893*	*261*	*229*
NAVAN AREA	**20·3**	**4,164**	**4,132**	**1,230**	**1,180**
An Uaimh (Navan) ...	4·3	1,140	1,148	822	796
Trim	1·3	380	378	139	120
Rural Areas	*14·7*	*2,644*	*2,606*	*269*	*264*
KELLS AREA	**21·6**	**3,627**	**3,200**	**401**	**310**
Ceannanus Mor (Kells) ...	2·1	605	604	109	99
Villages under 1,000 population	*1·0*	*409*	*410*	*131*	*120*
Rural Areas	*18·5*	*2,613*	*2,186*	*161*	*91*
TOTALS ...	**207·1**	**40,234**	**38,056**	**55,162**	**65,172**
GALWAY DISTRICT					
ATHENRY AREA : ...	**10·7**	**3,056**	**2,302**	**956**	**701**
Athenry	1·2	299	293	234	212
Loughrea	2·8	528	533	641	487
Rural Areas	*6·7*	*2,229*	*1,476*	*81*	*2*
CLAREMORRIS AREA ...	**31·4**	**5,726**	**5,438**	**718**	**720**
Ballinrobe	1·2	342	347	75	80
Ballyhaunis	1·1	358	362	117	94
Claremorris	1·1	420	419	253	258
Rural Areas	*28·0*	*4,606*	*4,310*	*273*	*288*
GALWAY AREA ...	**48·6**	**8,581**	**8,011**	**3,411**	**2,954**
Galway	21·3	4,704	4,576	2,872	2,461
Villages under 1,000 population	*·2*	*61*	*67*	*8*	*5*
Rural Areas	*27·1*	*3,816*	*3,368*	*531*	*488*
GORT AREA :	**20·3**	**2,923**	**3,646**	**127**	**191**
Gort	1·0	313	306	77	68
Villages under 1,000 population	*·1*	*34*	*39*	*9*	*9*
Rural Areas	*19·2*	*2,576*	*3,301*	*41*	*114*
TUAM AREA	**34·8**	**6,386**	**6,431**	**210**	**177**
Tuam	5·0	1,128	1,129	167	140
Villages under 1,000 population	*·5*	*146*	*142*	*5*	*5*
Rural Areas	*29·3*	*5,112*	*5,160*	*38*	*32*
WESTPORT AREA ...	**37·4**	**6,250**	**5,802**	**2,545**	**2,118**
Castlebar	5·3	967	950	1,622	1,284
Westport	3·1	770	768	728	695
Villages under 1,000 population	*·7*	*116*	*113*	*9*	*7*
Rural Areas	*28·3*	*4,397*	*3,971*	*186*	*132*
TOTALS ...	**183·2**	**32,922**	**31,630**	**7,967**	**6,861**

Areas and Towns Supplied	Approx. Population thousands	No. of Consumers at 31st March		Motive Power: Units sold year ended 31st March	
		1958	1957	1958 thousands	1957 thousands
LIMERICK DISTRICT					
CAHIR AREA	**20·7**	**3,727**	**3,280**	**655**	**795**
Cahir	1·6	514	508	208	183
Cashel	2·8	592	585	72	70
Rural Areas	*16·3*	*2,621*	*2,187*	*375*	*542*
ENNIS & SCARIFF AREAS	**22·1**	**4,604**	**4,222**	**2,754**	**2,450**
Ennis	6·1	1,799	1,775	788	575
Villages under 1,000 population	*1·3*	*326*	*320*	*955*	*913*
Rural Areas	*7·1*	*1,218*	*2,127*	*744*	*962*
	7·6	*1,261*		*267*	
ENNISTYMON AREA ...	**8·1**	**1,931**	**1,920**	**211**	**180**
Ennistymon	1·1	336	333	149	116
Villages under 1,000 population	*1·5*	*521*	*525*	*46*	*49*
Rural Areas	*5·5*	*1,074*	*1,062*	*16*	*15*
KILMALLOCK AREA ...	**21·7**	**4,111**	**4,070**	**854**	**725**
Kilmallock	1·1	340	337	173	158
Villages under 1,000 population	*2·2*	*487*	*474*	*94*	*91*
Rural Areas	*18·4*	*3,284*	*3,259*	*587*	*476*
KILRUSH AREA ...	**14·9**	**3,173**	**2,670**	**946**	**936**
Kilkee	1·7	421	428	48	55
Kilrush	3·2	736	728	862	861
Rural Areas	*10·0*	*2,016*	*1,514*	*36*	*20*
LIMERICK AREA ...	**77·9**	**17,425**	**17,270**	**30,068**	**30,775**
Killaloe–Ballina	1·0	310	308	75	69
Limerick	50·8	12,000	12,018	28,994	29,470
Villages under 1,000 population	*1·1*	*197*	*198*	*77*	*66*
Rural Areas	*25·0*	*4,918*	*4,746*	*922*	*1,170*
NENAGH AREA ...	**17·1**	**3,786**	**3,601**	**3,919**	**3,860**
Nenagh	4·4	1,180	1,189	3,846	3,835
Villages under 1,000 population	*·8*	*80*	*78*	*6*	*5*
Rural Areas	*11·9*	*2,526*	*2,334*	*67*	*20*
RATHKEALE & NEWCASTLE W. AREAS	**31·5**	**6,709**	**6,022**	**2,596**	**2,079**
Newcastle West	2·6	632	635	147	137
Rathkeale	1·5	338	334	75	70
Villages under 1,000 population	*2·8*	*759*	*753*	*761*	*587*
Rural Areas	*13·8*	*2,718*	*4,300*	*1,336*	*1,285*
	10·8	*2,262*		*277*	
RATHLUIRC AREA ...	**11·4**	**2,651**	**3,095**	**1,037**	**1,100**
Rathluirc (Charleville) ...	1·9	585	583	251	245
Rural Areas	*9·5*	*2,066*	*2,512*	*786*	*855*
TIPPERARY AREA ...	**34·6**	**6,218**	**6,166**	**1,702**	**1,421**
Tipperary	5·1	1,257	1,236	724	675
Villages under 1,000 population	*1·0*	*244*	*237*	*82*	*61*
Rural Areas	*28·5*	*4,717*	*4,693*	*896*	*685*
TOTALS ...	**260·0**	**54,335**	**52,316**	**44,742**	**44,321**

Areas and Towns Supplied	Approx. Population thousands	No. of Consumers at 31st March		Motive Power Units sold year ended 31st March	
		1958	1957	1958 thousands	1957 thousands
PORTLAOISE DISTRICT					
ATHY AREA	**14·2**	**2,384**	**2,385**	**8,999**	**7,788**
Athy	3·8	909	912	8,693	7,523
Rural Areas	*10·4*	*1,475*	*1,473*	*306*	*265*
CARLOW AREA ...	**19·9**	**4,291**	**4,112**	**1,939**	**1,667**
Carlow	7·7	1,843	1,707	1,216	1,141
Muine Bheag	1·9	491	491	219	196
Rural Areas	*10·3*	*1,957*	*1,914*	*504*	*330*
DROICHEAD NUA AREA	**11·9**	**2,859**	**2,815**	**3,199**	**3,090**
Droichead Nua	3·0	985	989	3,150	3,039
Villages under 1,000 population	*1·1*	*280*	*335*	*25*	*30*
Rural Areas	*7·8*	*1,594*	*1,491*	*24*	*21*
EDENDERRY AREA ...	**5·6**	**1,998**	**1,872**	**731**	**651**
Edenderry	2·6	549	543	719	642
Rural Areas	*3·0*	*1,449*	*1,329*	*12*	*9*
KILDARE AREA ...	**11·4**	**1,761**	**1,765**	**8,387**	**9,684**
Kildare	2·3	618	609	7,206	8,219
Villages under 1,000 population	*·4*	*137*	*134*	*67*	*75*
Rural Areas	*8·7*	*1,006*	*1,022*	*1,114*	*1,390*
KILKENNY AREA ...	**33·7**	**7,144**	**7,068**	**6,356**	**5,995**
Callan	1·5	356	352	181	179
Kilkenny	10·8	2,819	2,794	983	938
Castlecomer	1·1	308	301	2,771	2,902
Villages under 1,000 population	*1·6*	*465*	*454*	*237*	*213*
Rural Areas	*18·7*	*3,196*	*3,167*	*2,184*	*1,763*
PORTARLINGTON AREA	**13·6**	**2,551**	**2,351**	**3,600**	**3,484**
Mountmellick	2·5	580	567	233	222
Portarlington	2·2	688	654	3,234	3,119
Villages under 1,000 population	*·4*	*170*	*168*	*92*	*131*
Rural Areas	*8·5*	*1,113*	*962*	*41*	*12*
PORTLAOISE AREA ...	**19·1**	**4,203**	**3,605**	**2,118**	**2,232**
Mountrath–Castletown ...	1·2	271	280	52	88
Portlaoise	3·8	1,084	1,077	1,661	1,826
Villages under 1,000 population	*2·1*	*638*	*640*	*312*	*284*
Rural Areas	*12·0*	*2,210*	*1,608*	*93*	*34*
ROSCREA AREA ...	**11·9**	**2,576**	**2,432**	**2,231**	**1,815**
Roscrea	3·0	854	832	1,703	1,437
Villages under 1,000 population	*·9*	*320*	*331*	*58*	*40*
Rural Areas	*8·0*	*1,402*	*1,269*	*470*	*338*
THURLES AREA ...	**22·7**	**5,120**	**4,641**	**2,816**	**2,158**
Templemore	2·0	462	467	472	396
Thurles	6·3	1,432	1,389	954	939
Villages under 1,000 population	*·5*	*147*	*146*	*71*	*63*
Rural Areas	*13·9*	*3,079*	*2,639*	*1,319*	*760*
TULLOW AREA ...	**12·9**	**2,525**	**2,136**	**409**	**353**
Tullow	1·7	426	420	115	105
Villages under 1,000 population	*1·2*	*389*	*391*	*102*	*100*
Rural Areas	*10·0*	*1,710*	*1,325*	*192*	*148*
TOTALS ...	**176·9**	**37,412**	**35,182**	**40,785**	**38,917**

Areas and Towns Supplied	Approx. Population thousands	No. of Consumers at 31st March		Motive Power: Units sold year ended 31st March	
		1958	1957	1958 thousands	1957 thousands
SLIGO DISTRICT					
BALLAGHADEREEN AREA	**16·9**	**3,120**	**2,826**	**332**	**304**
Ballaghadereen	1·4	360	353	125	97
Castlerea	1·2	473	470	163	171
Villages under 1,000 population	*·3*	*33*	*33*	*1*	*5*
Rural Areas	*14·0*	*2,254*	*1,970*	*43*	*31*
BALLINA AREA ...	**38·2**	**6,515**	**5,629**	**572**	**547**
Ballina–Crocketstown ...	6·3	1,574	1,595	276	286
Villages under 1,000 population	*1·5*	*342*	*340*	*38*	*31*
Rural Areas	*30·4*	*4,599*	*3,694*	*258*	*230*
BALLYSHANNON AREA	**8·6**	**1,721**	**1,728**	**145**	**146**
Ballyshannon	2·8	693	705	49	56
Bundoran	1·7	400	405	78	74
Rural Areas	*4·1*	*628*	*618*	*18*	*16*
BUNCRANA AREA ...	**19·6**	**3,316**	**2,766**	**246**	**167**
Buncrana	3·0	693	683	216	143
Rural Areas	*16·6*	*2,623*	*2,083*	*30*	*24*
CARRICK-ON-SHANNON AREA	**33·3**	**5,201**	**4,585**	**1,337**	**1,183**
Carrick-on-Shannon ...	1·5	404	401	597	782
Villages under 1,000 population	*2·4*	*744*	*834*	*201*	*194*
Rural Areas	*29·4*	*4,053*	*3,350*	*539*	*207*
DUNGLOE (now FALCARRAGH) AREA (RURAL)	**15·7**	**3,226**	**3,021**	**51**	**38**
Rural Areas	*15·7*	*3,226*	*3,021*	*51*	*38*
KILLYBEGS AREA (RURAL)	**17·6**	**2,905**	**2,677**	**441**	**400**
Donegal	1·1	2,905	2,677	441	400
Rural Areas	*16·5*				
LETTERKENNY AREA ...	**57·3**	**6,785**	**6,407**	**3,028**	**2,492**
Letterkenny	3·0	855	852	339	308
Villages under 1,000 population	*1·1*	*367*	*366*	*961*	*1,044*
Rural Areas	*53·2*	*5,563*	*5,189*	*1,728*	*1,140*
SLIGO AREA	**36·4**	**7,050**	**6,827**	**4,696**	**3,966**
Sligo	13·5	3,012	2,989	1,740	1,103
Villages under 1,000 population	*·9*	*297*	*304*	*47*	*34*
Rural Areas	*22·0*	*3,741*	*3,534*	*2,909*	*2,829*
SWINFORD AREA ...	**32·6**	**4,688**	**4,504**	**608**	**653**
Kiltimagh	1·0	261	261	209	225
Swinford	1·2	316	323	14	15
Villages under 1,000 population	*2·5*	*691*	*695*	*289*	*324*
Rural Areas	*27·9*	*3,420*	*3,225*	*96*	*89*
TOTALS ...	**276·2**	**44,527**	**40,970**	**11,456**	**9,896**
TRALEE DISTRICT					
CAHIRCIVEEN AREA (RURAL)	**5·4**	**883**	**798**	**27**	**13**
Cahirciveen	1·7	883	798	27	13
Rural Areas	*3·7*				

Areas and Towns Supplied	Approx. Population thousands	No. of Consumers at 31st March		Motive Power Units sold year ended 31st March	
		1958	1957	1958 thousands	1957 thousands
TRALEE DISTRICT—*continued*					
KANTURK AREA ...	**19·1**	**4,281**	**4,120**	**1,439**	**1,028**
Kanturk	1·6	488	484	449	385
Villages under 1,000 population	*1·9*	*561*	*552*	*187*	*156*
Rural Areas	*15·6*	*3,232*	*3,084*	*803*	*487*
KILLARNEY AREA ...	**28·1**	**5,136**	**3,823**	**1,692**	**1,801**
Killarney	6·3	1,264	1,257	288	282
Villages under 1,000 population	*1·2*	*391*	*417*	*1,008*	*1,317*
Rural Areas	*20·6*	*3,481*	*2,149*	*396*	*202*
LISTOWEL AREA ...	**24·3**	**5,050**	**4,785**	**969**	**896**
Abbeyfeale	1·2	344	332	73	65
Listowel	3·1	694	687	355	362
Villages under 1,000 population	*1·4*	*488*	*551*	*178*	*198*
Rural Areas	*18·6*	*3,524*	*3,215*	*363*	*271*
TRALEE AREA	**48·1**	**10,069**	**9,989**	**3,025**	**2,932**
Castleisland	1·5	418	417	464	494
Tralee	11·0	2,837	2,839	1,595	1,669
Dingle	1·5	6,814	6,733	966	769
Rural Areas	*34·1*				
TOTALS ...	**125·0**	**25,419**	**23,515**	**7,152**	**6,670**
WATERFORD DISTRICT					
ARKLOW & GOREY AREAS	**24·7**	**4,863**	**3,779**	**3,205**	**3,382**
Arklow	5·2	1,367	1,360	2,094	2,460
Gorey	2·9	695	680	863	775
Villages under 1,000 population	*·5*	*116*	Nil.	*23*	Nil.
Rural Areas	*8·1*	*1,334*	1,739	75	147
	8·0	*1,351*		150	
CARRICK-ON-SUIR AREA	**17·7**	**3,244**	**3,136**	**3,178**	**2,513**
Carrick-on-Suir	4·8	1,030	1,024	1,155	908
Villages under 1,000 population	*·9*	*254*	*251*	*1,082*	*779*
Rural Areas	*12·0*	*1,960*	*1,861*	*941*	*826*
CLONMEL AREA ...	**25·1**	**4,968**	**4,953**	**2,428**	**3,182**
Clonmel	10·5	2,432	2,415	1,658	1,491
Fethard	1·0	291	286	40	34
Villages under 1,000 population	*·5*	*134*	*135*	*44*	*52*
Rural Areas	*13·1*	*2,111*	*2,117*	*686*	*1,605*
DUNGARVAN AREA ...	**22·0**	**4,135**	**4,051**	**3,068**	**2,919**
Dungarvan	5·4	1,327	1,301	1,292	1,340
Lismore	1·1	312	317	17	15
Villages under 1,000 population	*1·5*	*477*	*465*	*436*	*285*
Rural Areas	*14·0*	*2,019*	*1,968*	*1,323*	*1,279*
ENNISCORTHY AREA ...	**27·9**	**5,328**	**5,662**	**1,964**	**2,107**
Enniscorthy	5·9	1,459	1,461	1,576	1,579
Villages under 1,000 population	*1·6*	*431*	*628*	*84*	*142*
Rural Areas	*20·4*	*3,438*	*3,573*	*304*	*386*

Areas and Towns Supplied	Approx. Population thousands	No. of Consumers at 31st March		Motive Power: Units sold year ended 31st March	
		1958	1957	1958 thousands	1957 thousands
WATERFORD DISTRICT—*continued*					
NEW ROSS AREA ...	**29·1**	**5,223**	**4,755**	**1,734**	**1,614**
Graiguenamanagh–Tinnahinch	1·4	327	322	272	330
New Ross	4·9	1,141	1,142	1,120	1,016
Villages under 1,000 population	*1·6*	*483*	*465*	*46*	*41*
Rural Areas	*21·2*	*3,272*	*2,826*	*296*	*227*
TRAMORE AREA ...	**8·2**	**1,991**	**1,709**	**462**	**444**
Tramore	2·8	831	835	91	79
Villages under 1,000 population	*·7*	*293*	*288*	*78*	*33*
Rural Areas	*4·7*	*867*	*586*	*293*	*332*
WATERFORD AREA ...	**38·8**	**8,679**	**8,296**	**14,456**	**13,164**
Waterford	28·7	7,096	7,012	8,389	8,447
Rural Areas	*10·1*	*1,583*	*1,284*	*6,067*	*4,717*
WEXFORD AREA ...	**30·2**	**5,444**	**5,373**	**2,546**	**2,292**
Wexford	12·0	2,932	2,885	1,549	1,363
Villages under 1,000 population	*1·3*	*361*	*356*	*71*	*65*
Rural Areas	*16·9*	*2,151*	*2,132*	*926*	*864*
TOTALS ...	**223·7**	**43,875**	**41,714**	**33,041**	**31,617**

RURAL ELECTRIFICATION

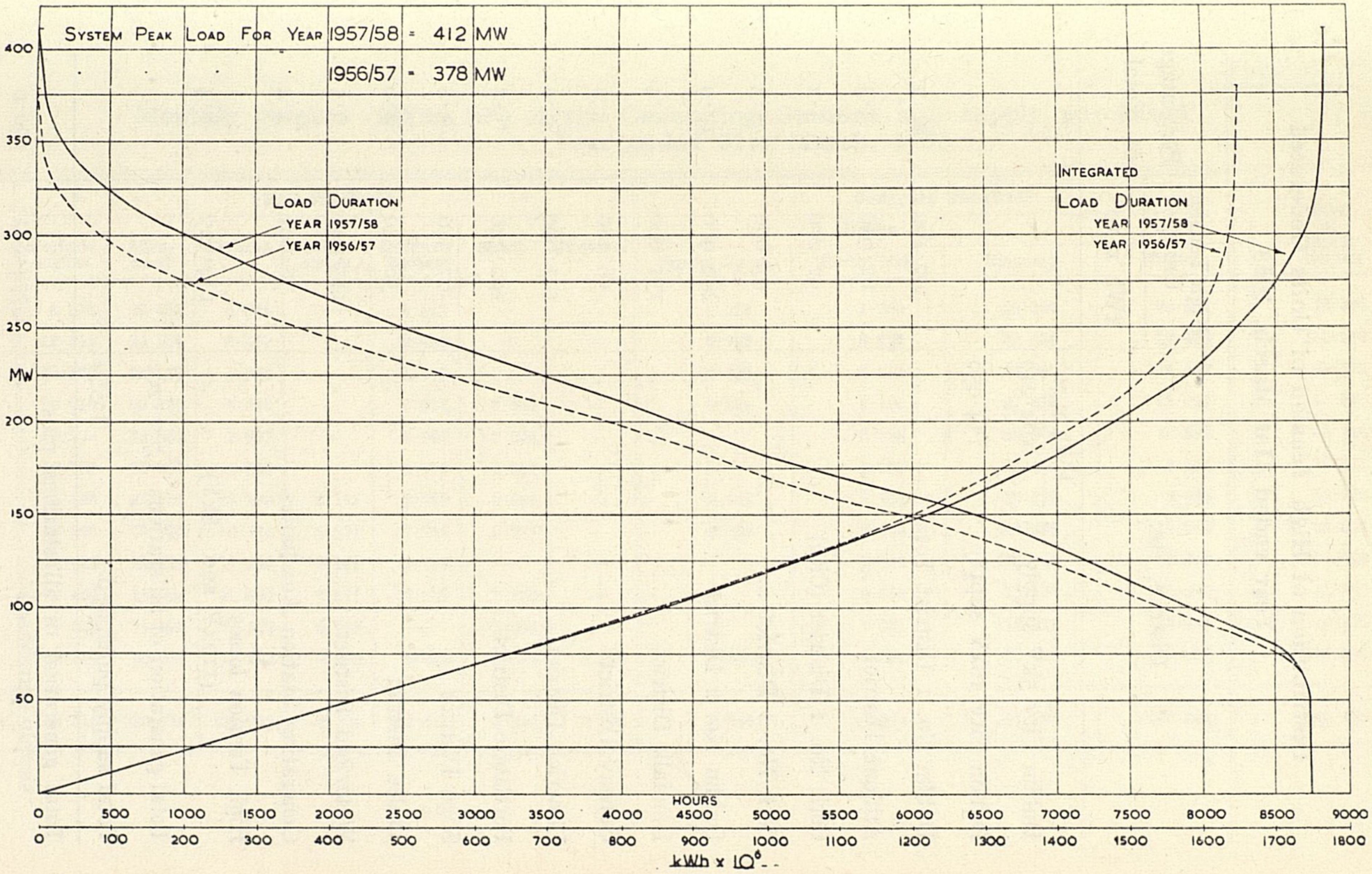
Areas Completed during Year ended 31st March, 1958

Area	County
Glynn	Carlow
Knockananna	Carlow/Wicklow
Mountnugent	Cavan
Stradone	Cavan
Lislin	Cavan/Meath
Cooraclare	Clare
Doonbeg	Clare
Kilbane	Clare
Belgooly	Cork
Bere Island	Cork
Clondrohid	Cork
Dungourney	Cork
Kildorrery	Cork
Lisgoold	Cork
Lismire	Cork
Newcestown	Cork
Barnesmore	Donegal
Culdaff	Donegal
Glenfin	Donegal
Malin	Donegal
New Mills	Donegal
Carraroe	Galway
Letterfrack	Galway
Barraduff	Kerry
Keel	Kerry
Kenmare	Kerry
Moyvane	Kerry
Bishopswood	Kildare/Offaly
The Rower	Kilkenny
Clonreher	Laois
Timahoe	Laois
Dangan	Leitrim/Roscommon
Drumkeeran	Leitrim/Roscommon/Sligo
Anglesboro	Limerick
Askeaton	Limerick
Dring	Longford
Kilcommock	Longford
Moydow	Longford
Glencastle	Mayo
Gweesalia	Mayo
Keelogues	Mayo
Kilmeena	Mayo
Toomore	Mayo
Leenane	Mayo/Galway
Annaroe	Monaghan
Broomfield	Monaghan
Tarmon	Roscommon
Castleconnor	Sligo/Mayo
Burncourt	Tipperary
Cashel	Tipperary
Derryvale	Tipperary
Gaultier	Waterford
Ballymore	Westmeath/Longford
Tang	Westmeath/Longford
Moydrum	Westmeath/Offaly
Foulksmills	Wexford
Kilcotty	Wexford
Killann	Wexford
Monamolin	Wexford
Donard	Wicklow

Areas under Construction or Selected for Development at the 31st March, 1958

Area	County
Ballyhaise	Cavan
Rassan	Cavan
Barefield	Clare
Kilmaley	Clare
Ogonnelloe	Clare
Kealkil	Cork
Kilnamartyra	Cork
Brosna	Cork/Kerry
Araglin	Cork/Waterford/Tipperary
Derrydruel	Donegal
Drung	Donegal
Moville	Donegal
Pettigo	Donegal
Ballyconneely	Galway
Glenbeigh	Kerry
Galmoy	Kilkenny
Coone	Kilkenny/Laois/Carlow
Tournafulla	Limerick
Fallmore	Mayo
Kilvine	Mayo
Moyrahan	Mayo
Pontoon	Mayo
Clonmellon	Meath/Westmeath
Oram	Monaghan
Rockcorry	Monaghan
Lullymore	Offaly/Kildare
Mount Delvin	Roscommon/Galway
Achonry	Sligo
Kesh	Sligo/Roscommon
Ballincor	Tipperary
Coologe	Tipperary
Derrycastle	Tipperary
Puckane	Tipperary
Upperchurch	Tipperary
Clashmore	Waterford
Moyvore	Westmeath

GENERATION LOAD DURATION & INTEGRATED LOAD DURATION CURVES — YEAR ENDED 31st MARCH 1958



Distribution at High Tension of Units Generated
Year ended 31st March, 1958

District, etc.	kWh x 10^6	High Tension Units kWh x 10^6	Percentage of Total
Dublin City 5kV supply	262·210		
Dublin City 10kV supply	134·950		
Dublin No. 1 District Total		397·160	22·4
Athlone District		62·650	3·5
Cork No. 1 District (City)		92·270	5·2
Cork No. 2 District		93·090	5·3
Dublin No. 2 District		246·980	13·9
Dundalk District		131·660	7·4
Galway District		56·780	3·2
Limerick District		141·660	8·0
Portlaoise District		102·340	5·8
Sligo District		67·340	3·8
Tralee District		38·730	2·2
Waterford District		115·940	6·5
Generating Station Auxiliaries		78·694	4·4
High Tension losses (110kV and 38kV)		149·527	8·4
Total generation of all stations	1,771·262		
Total supply purchased	3·559		
Total generation of all stations plus supply purchased		1,774·821	100·0

Monthly outputs (kWh x 10^6) of the Generating Stations and supply purchased
Year ended 31st March, 1958

Month (Calendar)	PEAT STATIONS							COAL/OIL STATIONS				Total of Steam Stations
								Dublin			Cork	
	Portarlington	Allenwood	Ferbane	Cahirciveen	Miltown-Malbay	Screeb	Gweedore	Pigeon House	North Wall	Ringsend	Marina	
April	5·573	20·451	5·371	—	0·583	—	—	0·519	1·780	29·169	20·361	83·807
May	12·554	20·534	9·407	—	0·865	—	—	0·762	8·924	30·634	27·433	111·113
June	13·570	20·163	5·244	—	1·472	—	—	0·683	8·557	24·742	24·447	98·878
July	16·018	23·993	5·486	—	0·814	0·030	—	0·844	9·106	27·312	23·207	106·810
August	13·993	20·967	2·037	—	0·994	0·396	—	—	3·288	24·684	20·387	86·746
September	12·862	11·997	14·358	—	1·772	0·807	—	—	2·155	26·364	8·356	78·671
October	5·350	21·721	23·100	0·111	2·380	0·951	—	0·048	2·614	19·792	8·628	84·695
November	12·298	19·833	10·036	0·351	1·759	0·857	—	0·109	2·045	23·320	14·245	84·853
December	14·613	21·710	19·493	0·800	1·105	—	—	—	2·520	26·740	19·467	106·448
January	10·454	16·562	10·892	0·871	0·697	0·380	—	—	0·579	18·775	11·992	71·202
February	7·675	11·935	11.179	0·558	—	1·054	—	—	1·021	12·416	3·467	49·305
March	13·350	20·887	17·269	0·679	0·470	1·049	0·379	0·281	3·031	27·117	21·916	106·428
TOTALS	138·310	230·753	133·872	3·370	12·911	5·524	0·379	3·246	45·620	291·065	203·906	1,068·956

Monthly outputs (kWh x 10^6) of the Generating Stations and supply purchased Year ended 31st March, 1958—*continued*

Month (Calendar)	HYDRO STATIONS									Total Generation of all Stations	Total Supply Purchased	Total Generation and Supply Purchased
	River Shannon	River Erne		River Lee		River Liffey			Total of Hydro Stations			
	Ardnacrusha	Cliff	Cathaleen's Fall	Carrigadrohid	Inniscarra	Pollaphuca	Golden Falls	Leixlip				
April	29·503	5·897	13·808	—	—	0·797	0·350	0·834	51·189	134·996	0·320	135·316
May	10·509	1·639	3·367	—	0·423	0·513	0·228	0·443	17·122	128·235	0·183	128·418
June	5·258	0·629	1·241	—	1·947	0·388	0·175	0·198	9·836	108·714	0·139	108·853
July	6·066	0·920	2·109	—	0·459	0·425	0·133	0·196	10·308	117·118	0·219	117·337
August	6·165	4·564	10·778	—	1·311	1·670	0·591	0·705	25·784	112·530	0·217	112·747
September	14·409	8·443	20·522	—	3·824	1·934	0·731	0·817	50·680	129·351	0·287	129·638
October	26·424	8·353	21·497	—	4·586	3·923	1·390	1·801	67·974	152·669	0·360	153·029
November	39·918	8·607	22·279	1·859	5·137	3·724	1·378	2·049	84·951	169·804	0·401	170·205
December	32·831	8·263	22·279	1·924	4·986	3·008	1·115	1·878	76·284	182·732	0·405	183·137
January	53·824	12·608	31·677	4·254	10·834	3·211	1·278	2·258	119·944	191·146	0·374	191·520
February	52·600	12·338	29·920	3·641	10·895	2·847	1·142	2·241	115·624	164·929	0·317	165·246
March	32·590	6·996	17·063	3·394	8·668	1·822	0·701	1·376	72·610	179·038	0·337	179·375
TOTALS		79·257	196·540	15·072	53·070	24·262	9·212	14·796				
	310·097	275·797		68·142		48·270			702·306	1,771·262	3·559	1,774·821

Performance of Generating Plant Year ended 31st March, 1958

(*a*) HYDRO-ELECTRIC STATIONS

Station	River	Total average inflow cbm/sec.	Water utilisation* %	Average water used at station cbm/sec.	Average water used per unit generated cbm	Rainfall at power station inches	Average available head metres	Installed capacity kW	Units sent out kWh x 10^6	Plant load factor %	Cost of Generation per unit sent out Pence
ARDNACRUSHA ...	Shannon	163·2	99·4†	152·8	15·54	36·79‡	28·46	85,000	306·821	41·6	0·306
CLIFF ...	Erne	91·4	100	90·2	35·88	42·87‡	12·04	20,000	78·437	45·2	0·397
CATHALEEN'S FALL	Erne	91·4	100	92·3	14·80	42·87‡	29·68	45,000	194·095	49·9	
CARRIGADROHID	Lee	21·7	64·5§	13·7	28·70	41·50	15·27	8,000	14·922	52·0	—
INNISCARRA ...	Lee	27·4	82·0§	23·2	13·75	46·20	31·89	19,000	52·509	37·5	
POLLAPHUCA ...	Liffey	8·75	100	7·74	10·05	37·36	48·75	30,000	23·508	9·2	0·742
GOLDEN FALLS ...	Liffey	8·75	100	7·65	26·20	37·36	16·59	4,000	9·089	26·3	
LEIXLIP ...	Liffey	14·95	99·0	12·23	26·10	30·00	17·42	4,000	14·611	42·2	

* The percentage utilisation of the total discharge for power production is exclusive of river compensation water and, in the case of the River Liffey, the draw-off for the Dublin City water supply from the Pollaphuca reservoir averaged 17·0 million gallons per day (0·895 cbm/sec.).

† The percentage utilisation at Ardnacrusha is influenced by the method of combined running of Ardnacrusha Station and Cathaleen's Fall and Cliff Stations during periods of surplus water.

§ In commission for part of year only.

‡ Average of catchment area.

Performance of Generating Plant Year ended 31st March, 1958—*continued*

(*b*) STEAM STATIONS

Station	Location	Installed Capacity kW	Units Sent Out kWh x 10^6	Plant Load Factor %	Fuel Type	Total Fuel Used Tons	Total Fuel Cost £	Fuel Cost per Unit Sent Out pence	Total Cost per Unit Sent Out pence
PORTARLINGTON ...	Co. Laoise ...	25,000	129·952	63·2	Sod Peat	(*a*) 157,700	399,272	0·737	1·113
ALLENWOOD ...	Co. Kildare ...	40,000	216·014	65·9	Sod Peat	(*a*) 262,500	736,718	0·818	1·140
FERBANE ...	Co. Offaly ...	60,000	123·043	35·7	Milled Peat Oil	(*b*) 235,000 1,300	293,788	0·573	1·243
CAHIRCIVEEN ...	Co. Kerry ...	5,000	20·133	17·4	Sod Peat	32,130	77,851	0·928	2.010
MILTOWN-MALBAY	Co. Clare ...	5,000		29·5	Sod Peat				
SCREEB ...	Co. Galway ...	5,000		18·8	Sod Peat				
GWEEDORE (*d*) ...	Co. Donegal ...	5,000		—	Sod Peat				
NORTH WALL ...	Dublin ...	44,500	41·604	16·3	Oil	15,900	135,772	0·783	2·167
RINGSEND ...	Dublin ...	90,000	273·707	36·9	Coal Oil	38,700 68,100	774,180	0·679	1·221
MARINA ...	Cork ...	60,000	193·434	38·8	Coal Oil	33,200 44,900	610,488	0·757	1·237
PIGEON HOUSE (*c*)	Dublin ...	95,000	0·689	—	Coal Oil	2,100 800	21,885	—	—

(*a*) Portarlington and Allenwood peat figures are for equivalent standard fuel of 30 per cent. moisture content.

(*b*) Ferbane peat figures are for equivalent standard fuel of 55 per cent. moisture content.

(*c*) Pigeon House used only for stand-by.

(*d*) Gweedore was commissioned for part of the last month of the year only.

Particulars of Generating Plant

(*a*) HYDRO-ELECTRIC STATIONS

Station	River	Catchment area km²	Average annual flow m³/sec	Average head m	Generating Sets No.	Generating Sets Capacity each kW	Type of turbine	Total capacity kW	Average annual output kWh x 10⁶	Remarks
ARDNACRUSHA ...	Shannon	10,400	194.4	28.3	3 1	20,000 25,000	Francis Kaplan	85,000	310	In commission.
POLLAPHUCA ...	Liffey	312	9.5	46.9	2	15,000	Kaplan	30,000	22	In commission.
GOLDEN FALLS ...	,,	312	9.5	17.4	1	4,000	Propellor	4,000	9	In commission.
LEIXLIP ...	,,	854	14.7	17.5	1	4,000	Kaplan	4,000	10	In commission.
CLIFF ...	Erne	3,950	102.1	10.0	2	10,000	Kaplan	20,000	85	In commission.
CATHALEEN'S FALL	,,	3,950	102.1	28.5	2	22,500	Kaplan	45,000	185	In commission.
CARRIGADROHID ...	Lee	610	18.2	13.55	1	8,000	Kaplan	8,000	17	In commission
INNISCARRA ...	,,	790	27.5	29.4	1 1	15,000 4,000	Kaplan Kaplan	19,000	51	In commission
CLADY ...	Clady	80	3.9	57.85	1	4,000	Francis	4,000	13	Under construction.

Particulars of Generating Plant *continued*

(*b*) STEAM STATIONS

Station	Generating Sets					Boilers			Fuel	Remarks
	No.	kW	Psi	°F.	Type of cooling	No.	klb/hr	Type of firing		
PIGEON HOUSE (Dublin)	1 1 4	5,000 10,000 20,000	250	750	Estuarine	11	100	Mech. stoker ...	Coal/Oil	In commission.
TOTAL ...		95,000					1,100			
NORTH WALL (Dublin)	1 2	12,500 16,000	400	800	Estuarine	4 2	40 165	Oil-fired ...	Oil ...	In commission.
TOTAL ...		44,500					490			
PORTARLINGTON (Co. Laoise) ...	2	12,500	400	800	Tower ...	3	150	Mech. stoker ...	Sod peat	In commission.
TOTAL ...		25,000					450			
ALLENWOOD (Co. Kildare)	2	20,000	400	800	Tower ...	4	150	Mech. stoker ...	Sod peat	In commission.
TOTAL ...		40,000					600			
MARINA (Cork)	2	30,000	600	850	Tidal river	3	200	P.F. and oil-fired	Coal or oil	In commission.
TOTAL ...		60,000					600			
RINGSEND (Dublin)	3	30,000	600	850	Estuarine	4	200	P.F. and oil-fired	Coal or oil	In commission.
TOTAL ...		90,000					800			
FERBANE (Co. Offaly)	3	20,000	400	800	Towers ...	3	220	P.F. ...	Milled peat	In commission
TOTAL ...		60,000					660			

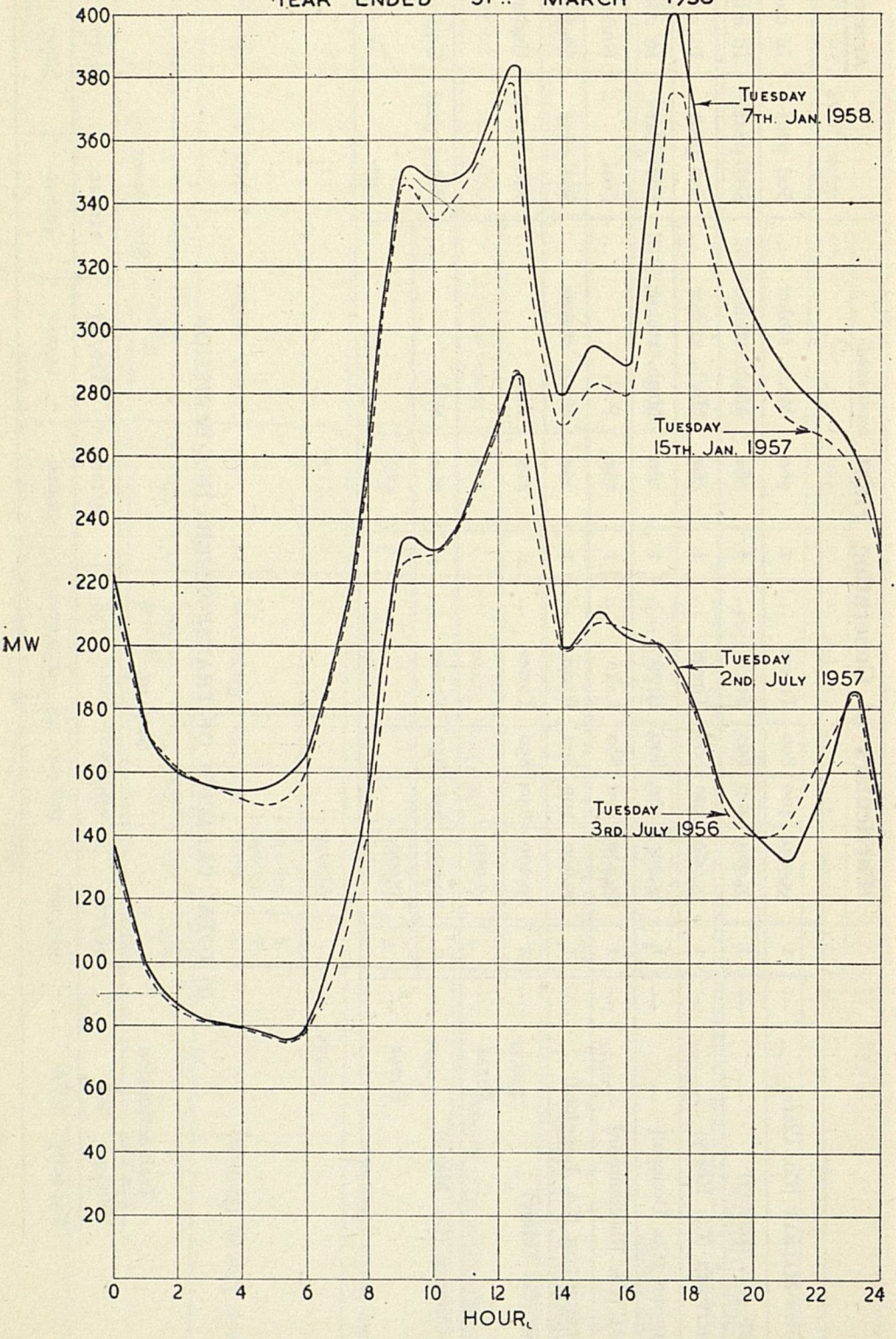
MILTOWN-MALBAY (Co. Clare) ...	1	5,000	400	800	Tower ...	1	60	Mech. stoker ...	Sod peat	In commission.
SCREEB (Co. Galway)	1	5,000	400	800	Sea ...	1	60	Mech. stoker ...	Sod peat	In commission
CAHIRCIVEEN (Co. Kerry)	1	5,000	400	800	Tower ...	1	60	Mech. stoker ...	Sod peat	In commission
GWEEDORE (Co. Donegal)	1	5,000	400	800	River ...	1	60	Mech. stoker ...	Sod peat	In commission
ARIGNA (Co. Roscommon)	1	15,000	400	800	Lake ...	1	165	P.F. ...	Coal ...	Under construction.
LANESBOROUGH (Co. Longford) ...	1	20,000	400	800	River ...	1	220	Mech. stoker ...	Sod peat	Under construction.
RHODE (Co. Offaly)	2	20,000	650	850	Tower ...	2	210	P.F. ...	Milled peat	Under construction.
TOTAL ...		40,000					420			
BELLACORICK (Co. Mayo)	2	20,000	650	850	Tower ...	2	210	P.F. ...	Milled peat	Under construction
TOTAL ...		40,000					420			

(*c*) TOTAL CAPACITY OF TRANSFORMERS IN COMMISSION

Transformation	Step up				Step down		
Voltage kV ...	10/110	10/38	5/38	38/110	110/38	110/10	38/10
Capacity kVA ...	525,000	190,400	110,000	90,000	15,000	40,000	3,000

TYPICAL DAILY GENERATION LOAD CURVES

YEAR ENDED 31st MARCH 1958



Transmission and Distribution Systems in Commission at 31st March, 1958

Transformer Stations	Number in commission	Increase for year	Total capacity in kVA	Increase in capacity for year in kVA
110kV Stations ...	16	1	580,000 at 110/38kV 64,200 at 38/10kV	40,000 at 110/38kV 5,000 at 38/10kV
38kV Stations ...	170	4	684,960	35,630
10kV Substations	3,831	106	504,924	18,637
5 kV Substations	178	—9	124,218	—8,380
10kV Rural Substations ...	44,083	5,060	249,907	32,061

Transmission and distribution systems	Length km.	Increase (+) or decrease(—) for year km.	Description
110 kV Lines ...	192·6	—	6 x 95 sq. mm. double circuit copper.
110 kV Lines ...	750·5	—	3 x 95 sq. mm. single circuit copper.
110 kV Lines ...	4·1	—	6 x 300 sq. mm. double circuit s.c.a.
110 kV Lines ...	48·3	—	3 x 425 sq. mm. single circuit s.c.a.
110 kV Lines ...	430·2	+15·6	3 x 300 sq. mm. single circuit s.c.a.
110 kV Lines ...	666·2	+90·8	3 x 200 sq. mm. single circuit s.c.a.
110 kV Cables ...	9·8	—	3 single core 325 sq. mm. oil-filled.
38 kV Lines ...	15·6	—	3 x 300 sq. mm. s.c.a.
38 kV Lines ...	2·4	—	3 x 200 sq. mm. s.c.a.
38 kV Lines ...	539·3	+57·2	3 x 100 sq. mm. s.c.a.
38 kV Lines ...	2,455·7	—1·1	3 x 50 sq. mm. copper.
38 kV Lines ...	326·4	+0·1	3 x 35 sq. mm. copper.
38 kV Cables ...	40·5	+2·8	3 x 260 sq. mm. oil-filled.
38 kV Cables ...	4·0	—	3 x 130 sq. mm. oil-filled.
38 kV Cables ...	2·2	+0·1	3 single core 260 sq. mm. oil-filled.
38 kV Cables ...	69·1	—	3 x 185 sq. mm. solid.
38 kV Cables ...	27·7	—	3 x 150 sq. mm. solid.
38 kV Cables ...	1·5	—	3 x 95 sq. mm. solid including 1 km. submarine.
10 kV Lines ...	5,379·32	+70·14	Single phase and three phase.
10 kV Cables ...	698·29	+17·01	3 x 10 to 3 x 185 sq. mm.
5 kV Cables ...	240·4	—	3 x 10 to 3 x 185 sq. mm.
3·3 kV Cables ...	3·7	—	3 x 185 sq. mm.
10 kV and L.T. Rural Lines ...	56,942	+5,361	Single and three phase.

Permitted Electricity Undertakings at 31st March 1958

Type of generator used is shown hereunder in column 4 as follows :—
Hydro = H ; Oil = O ; Hydro and Oil = H & O

(1) Town	(2) Population (1951)	(3) Name of undertaker	(4) Type of generator	(5) No. of consumers	(6) Normal Tariffs per Unit for			(7) Units sold, year ended 31st March, 1958
					Lighting	Heating and cooking	Power	
Ballisodare, Co. Sligo ...	153	W. & G. T. Pollexfen, Ltd. ...	H	65	7½d.	3d.	3d.	81,877
Boyle, Co. Roscommon	1,934	John Stewart	H & O	569	Miscellaneous 0·6d. to 3½d. per unit			586,289
					5d. to 8d.	2d. to 2½d.	3½d.	
Dromahair, Co. Leitrim	262	Paul Jeiter	H	60	9d.	3d.	3d.	23,514
Glendalough, Co. Wicklow	—	Messrs. Wynne	H	17	Included in rent		—	127,842
Moville, Co. Donegal ...	969	The Moville Electric Supply Co. ...	H & O	315	9d. to 10d.	—	3d. to 4d.	146,350
Pettigo, Co. Donegal ...	243	Shaw Bros.	O	97	1/-	—	—	11,580
Rockcorry, Co. Monaghan	—	Edward Campbell	O	11	1/-	—	—	1,200 est.
Various Districts ...	—	Great Northern Railway Board ...	O	50	2d. to 8d.	1·6d. and 2·2d.	1·6d. to 3·7d.	363,101

Total number of undertakings, 10 ; total population, 3,561 ; total number of consumers, 1,184 ; units sold approximately, 1,341,753.

NOTE.—Permits have also been issued in two cases where the number of consumers is three or under : these undertakings are not shown above.

APPENDIX XI

GENERAL EMPLOYEES' TRIBUNAL

REPORT OF PROCEEDINGS IN THE YEAR ENDED 31st MARCH, 1958

In the year ended 31st March, 1958, the Tribunal dealt with eight disputes under Section 5 of the Electricity (Supply) (Amendment) Act, 1949. The disputes were as follows :—

(1) A claim that duties warranted higher grading and that a bonus be paid for extra work done during the absence of a higher graded official. The Tribunal rejected the claim for higher grading but awarded a bonus in respect of extra duties performed.

(2) A claim that the hours of attendance on Saturdays at Central Stores should be the same as those applicable at Head Office and Dublin No. 2 District Office. The Tribunal decided that there was no objection to the same hours of attendance provided the extra half-hour involved was worked during the week.

(3) A claim for an allowance similar to that granted to another officer on shift work. The claim was rejected.

(4) A claim that duties warranted a higher grading. The Tribunal rejected the claim for higher grading but decided that the special allowance being paid to the official be increased.

(5) A claim for a 5-day week for the clerical staff in the Generating Stations in the Dublin Region. The Tribunal allowed the claim.

(6) A claim for an increase in the minimum leave allowance for officer personnel. The Tribunal increased the leave allowance for staff with a specified number of years' service.

(7) A claim that an officer should not have been dismissed. The Tribunal rejected the claim.

(8) Claim for higher grading by certain district engineering staff. The Tribunal decided that the evidence was inadequate to justify the change in grading.

Three claims were referred back for further investigation with a view to agreement being reached between the parties. One dispute was withdrawn by the claimants.

Five disputes were under consideration at the close of the year.

(Signed) J. J. O'LEARY, *Chairman.*

R. F. BROWNE, *Member.*

M. R. BLAIR, *Member.*

(Signed) J. A. QUINN, *Secretary.*
Date : 20th May, 1958.

APPENDIX XII

MANUAL WORKERS' TRIBUNAL

REPORT OF PROCEEDINGS IN THE YEAR ENDED 31st MARCH 1958

In the year ended the 31st March, 1958, the Tribunal dealt with nine industrial disputes, which were as follows :—

(1) A claim by the Irish Engineering and Foundry Union, the Amalgamated Transport & General Workers' Union and the Irish Engineering Industrial & Electrical Trades Union concerning the reduction in the rate of pay to ashmen when not on shift work at Pigeon House Generating Station. Following the preliminary hearing of evidence the claim was referred back to the Board to consider the absorption of the men, or some of the men, on full shift work.

(2) A claim by the Electrical Trades Union (Ireland) and the Amalgamated Transport & General Workers' Union arising from the transfer of Dun Laoghaire Area Headquarters from Dun Laoghaire to Stillorgan. The Tribunal adjourned consideration.

(3) A claim by the National Engineering Union, the Amalgamated Transport & General Workers' Union and the Workers' Union of Ireland in regard to the rates of pay of laggers employed in the Board's Generating Stations. The Tribunal granted an increase in the rate of pay.

(4) A claim by the National Engineering Union, the Irish Transport & General Workers' Union, the Amalgamated Transport & General Workers' Union and the Workers' Union of Ireland in regard to the differentials existing between the rates of pay of unskilled and semi-skilled workers at Portarlington, Allenwood and Cork Generating Stations, and the Dublin Generating Stations respectively. The Tribunal rejected the claim but decided that the unskilled rate in the Marina Generating Station, Cork, should be increased.

(5) A claim by the Electrical Trades Union (Ireland) in regard to the rate of pay and annual leave allowance of Installation Inspectors, Dublin No. 1 District. An increase in the rate of pay was allowed.

(6) A claim by the National Engineering Union concerning the rate of pay of welders employed at Pigeon House, Ringsend and North Wall Generating Stations. The Tribunal decided, in the absence of evidence of accepted standards of proficiency, that the claim be rejected.

(7) A claim by the Provisional United Trade Union Organisation in regard to the rates of pay of semi-skilled and unskilled workers in the Board's service. An increase in the rate of pay was allowed.

(8) A claim by the National Engineering Union in regard to the rates of pay of semi-skilled and unskilled workers in the Board's service. An increase in the rate of pay was allowed.

(9) A claim by the Workers' Union of Ireland concerning two redundant shipwrights in Central Stores. The Tribunal was of the view that the men should accept the Board's offer of alternative employment at the special rate but, failing this, the Union should discuss further with the Board the question of compensation.

Following the amendment of the Manual Workers' Superannuation Scheme, the Tribunal considered and revised the Tribunal Pension Awards payable to certain manual workers.

At the close of the period under review three claims were sub judice and notice had been received of two further disputes.

(Signed) J. J. O'LEARY, *Chairman.*

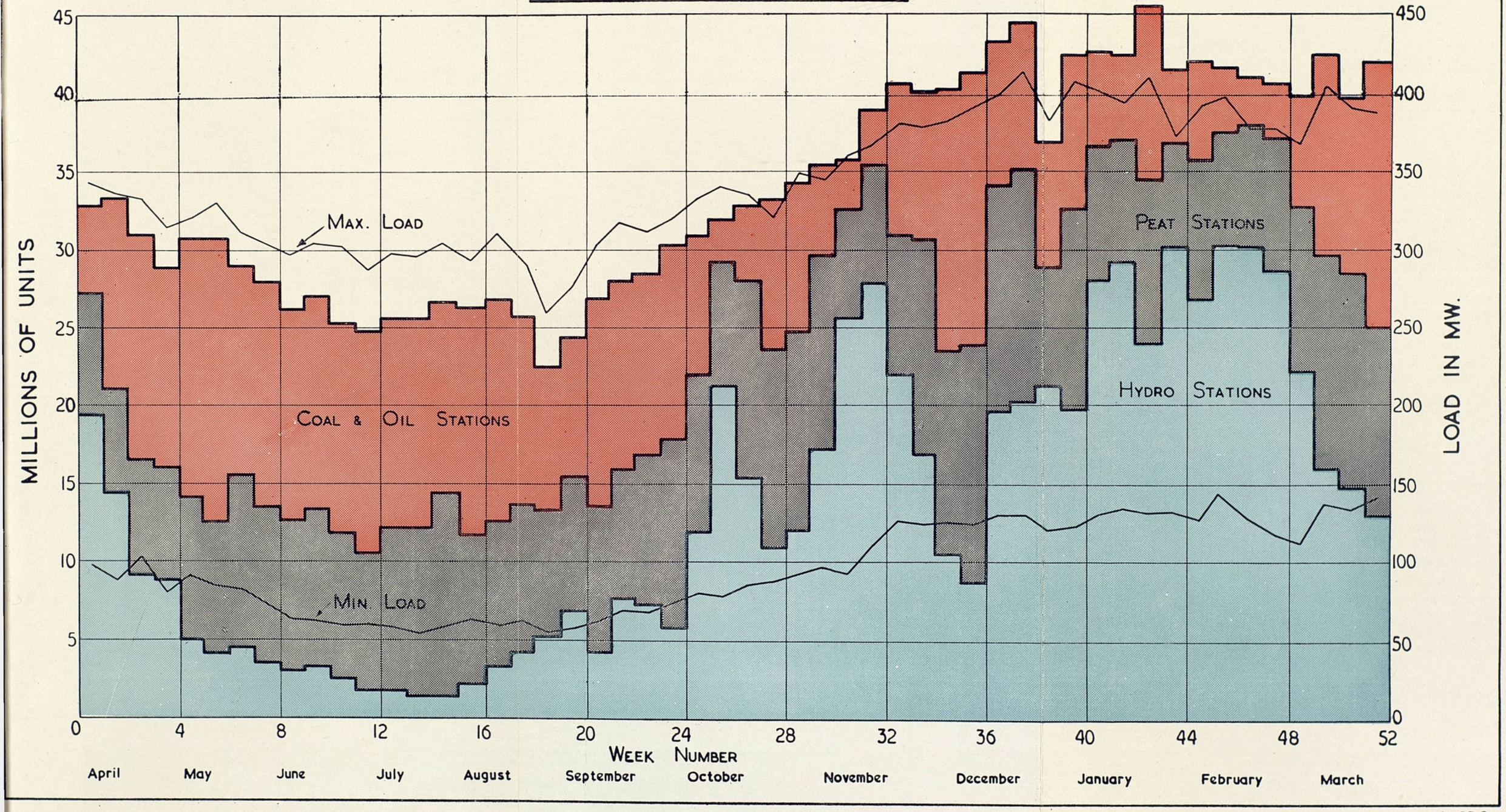
R. F. BROWNE, *Member.*

GILBERT LYNCH, *Member.*

(Signed) C. DOWLING, *Secretary.*
Date : 13*th May,* 1958.

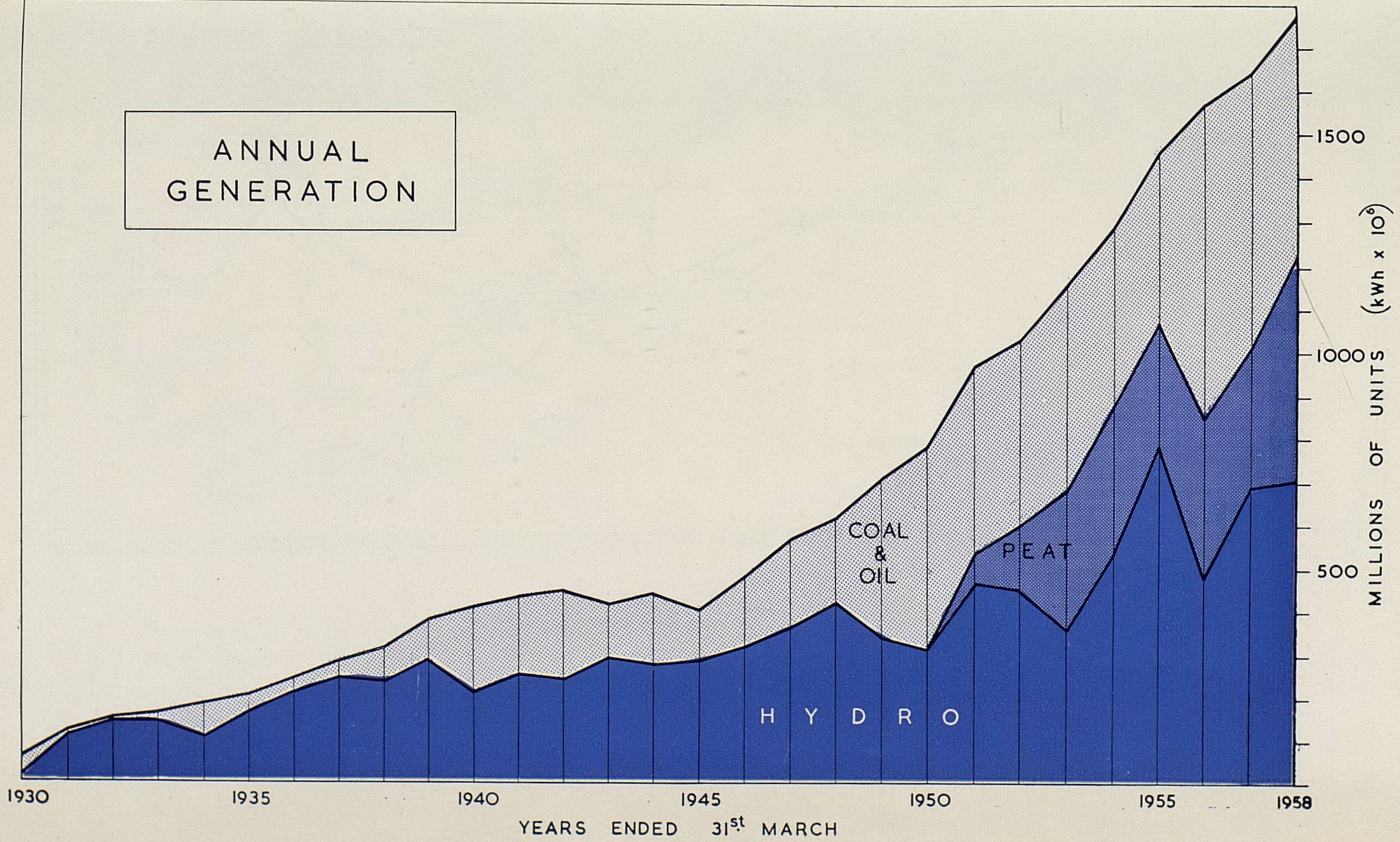
WEEKLY GENERATION & MAX/MIN. LOADS

YEAR ENDED 31ST MARCH 1958



0.36396

ANNUAL GENERATION

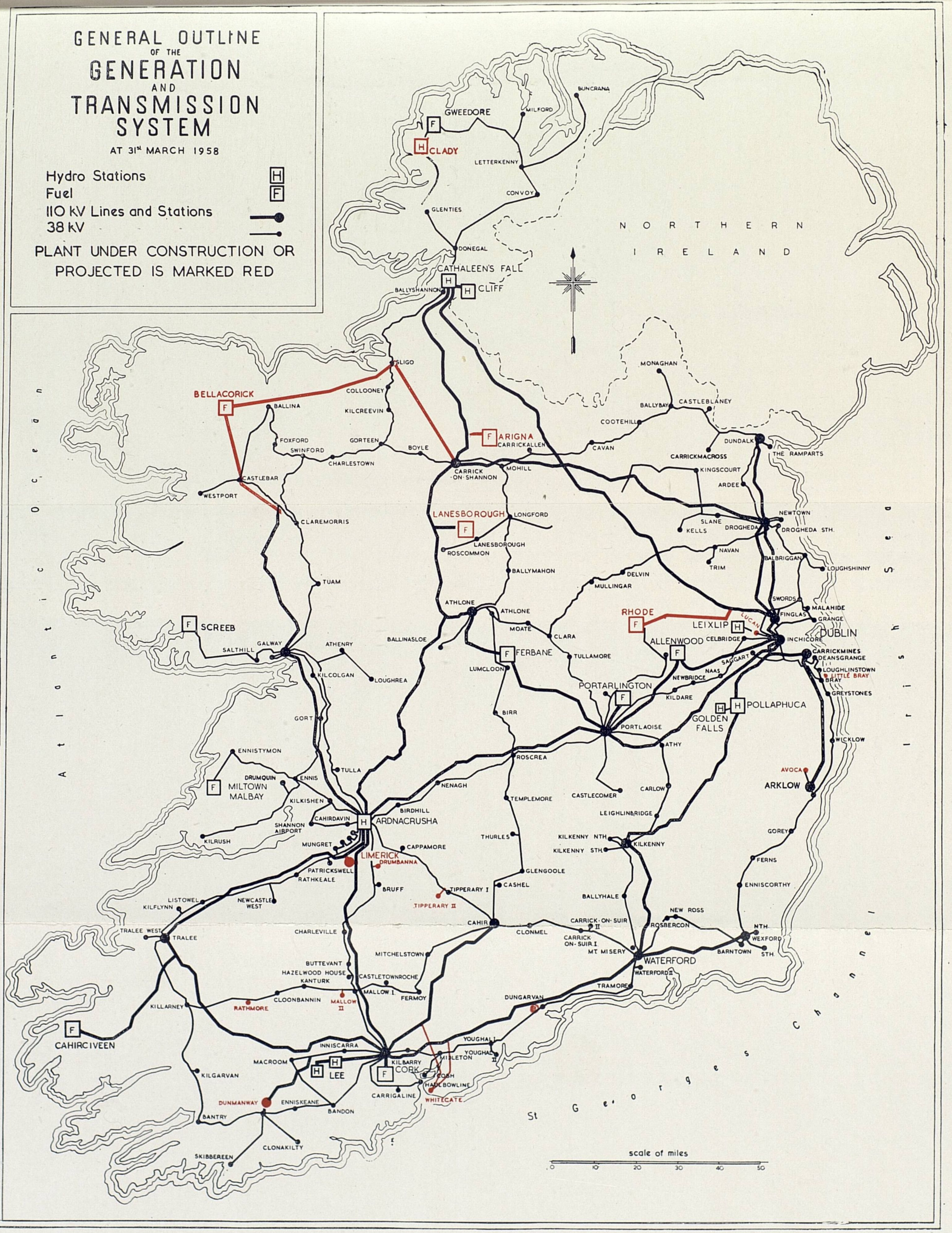


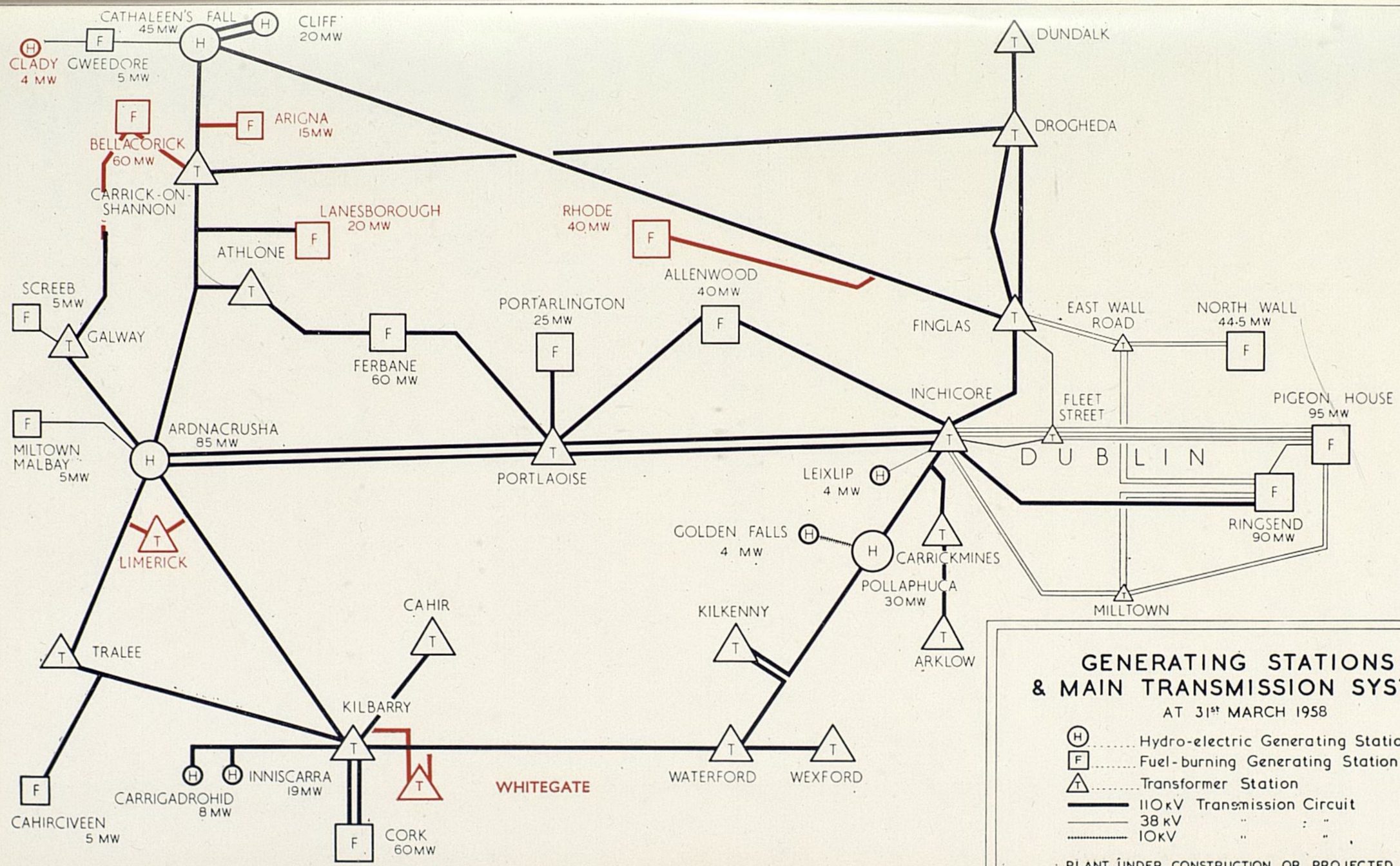
GENERAL OUTLINE OF THE GENERATION AND TRANSMISSION SYSTEM

AT 31ST MARCH 1958

Hydro Stations [H]
Fuel [F]
110 kV Lines and Stations
38 kV

PLANT UNDER CONSTRUCTION OR PROJECTED IS MARKED RED





GENERATING STATIONS & MAIN TRANSMISSION SYSTEM

AT 31st MARCH 1958

(H) ..... Hydro-electric Generating Station

[F] ..... Fuel-burning Generating Station

△T ..... Transformer Station

110 kV Transmission Circuit

38 kV " "

10 kV " "

PLANT UNDER CONSTRUCTION OR PROJECTED IS MARKED RED

APPENDIX XVI

ACCOUNTS

	1 Fuel £	2 Operating Expenses £	3 Maintenance and Repair £	4 Supervision and Local Administration £
GENERATION				
Coal/Oil				
North Wall	135,772	30,587	20,107	24,278
Marina	610,488	39,274	32,399	31,038
Ringsend	774,180	70,397	57,197	26,550
Sod Peat (Machine)				
Portarlington ...	399,272	35,971	35,332	12,337
Allenwood	736,718	41,278	31,204	21,023
Milled Peat				
Ferbane	293,788	35,057	6,641	18,816
Sod Peat (Hand-won)				
Four 5 MW stations ...	77,851	21,008	5,849	—
Stand-by				
Pigeon House ...	21,885	44,167	47,504	29,785
Total—Fuel Stations ...	3,049,954	317,739	236,233	163,827
Hydro				
Shannon	—	32,219	35,379	39,935
Erne	—	21,239	19,840	25,727
Liffey	—	11,590	13,078	12,408
Lee	—	11,026	4,667	3,262
Total—Hydro Stations ...	—	76,074	72,964	81,332
Total—All Stations ...	3,049,954	393,813	309,197	245,159
TRANSMISSION	—	49,339	164,530	67,688
ELECTRICITY purchased in bulk and other expenditure attributable to generation	—	—	—	—
	3,049,954	443,152	473,727	312,847

* Station recently commissioned and undergoing test.

THE YEAR ENDED 31st MARCH, 1958.

5 WORKS COST (1–4) £	Per Unit Sent Out (Pence) 1957/58	Per Unit Sent Out (Pence) 1956/57	6 Depreciation and Renewals £	7 Interest £	8 Capital Repayments £	TOTAL 1957/58 £	TOTAL 1957/58 Per Unit Sent Out (Pence	TOTAL 1956/57 £	TOTAL 1956/57 Per Unit Sent Out (Pence)
210,744	1·218	·944	71,000	74,730	18,303	374,777	2·167	496,492	1·412
713,199	·892	·737	113,000	130,933	31,872	989,004	1·237	986,520	1·020
928,324	·820	·685	177,000	223,505	54,381	1,383,210	1·221	1,167,973	1·109
1,852,267	*·880*	*·745*				*2,746,991*	*1·305*	*2,650,985*	*1·118*
482,912	·896	·986	50,000	53,908	13,215	600,035	1·113	594,604	1·227
830,223	·925	·983	82,000	88,451	21,678	1,022,352	1·140	921,142	1·239
1,313,135	*·914*	*·984*				*1,622,387*	*1·130*	*1,515,746*	*1·234*
354,302	·696	*	115,000	149,087	14,188	632,577	1·243	9,331	*
104,708	1·255	—	27,000	32,905	3,132	167,745	2·010	5,855	—
143,341	—	—	73,000	78,704	18,551	313,596	—	494,848	—
3,767,753	·911	·890	708,000	832,223	175,320	5,483,296	1,325	4,676,765	1·254
107,533	·084	·071	49,000	188,291	46,158	390,982	·306	390,062	·259
66,806	·059	·059	92,000	235,648	57,702	452,156	·397	444,458	·393
37,076	·188	·200	26,000	66,742	16,343	146,161	·742	146,537	·771
18,955	*	—	30,000	103,828	9,880	162,663	*	—	—
230,370	·080	·075	197,000	594,509	130,083	1,151,962	·398	981,057	·347
3,998,123	·569	·539	905,000	1,426,732	305,403	6,635,258	·944	5,657,822	·863
—	—	—	377,000	466,710	108,554	1,233,821	—	1,147,144	—
—	—	—	—	—	—	15,110	—	12,467	—
—	—	—	1,282,000	1,893,442	413,957				
				Total Production Cost ...		7,884,189		6,817,433	
			Transferred to Revenue Accounts :						
			Non-rural	6,247,573				5,433,999	
			Rural	1,636,616				1,383,434	
						7,884,189		6,817,433	

No. 2. **ELECTRICITY (NON-RURAL) REVENUE ACCOUNT**

Dr.

	£	£	1956/57 £
To Electricity Production Account		6,247,573	5,433,999
,, Distribution Charges :			
Operation and maintenance	723,722		
Reserve for depreciation and renewals	428,000		
Interest	482,971		
Capital repayments	114,310		
Supervision and local administration	530,209		
		2,279,212	2,190,714
,, General Administration :			
Salaries and Wages	532,216		
Travelling expenses	24,651		
Stationery	14,724		
Telephones and postage	14,101		
Lighting and heating	14,074		
Rents and rates	10,452		
Insurance	35,394		
Professional fees	18,120		
Publicity	65,116		
Maintenance of office buildings and equipment	30,148		
Staff training	29,105		
Pensions	59,938		
Capital charges—general assets	186,390		
Provision for bad debts	23,695		
Sundry expenses	7,417		
	1,065,541		
Less apportionments charged to :			
Rural Revenue Account	260,908		
Capital Works and other accounts	39,289		
		765,344	710,113
,, Balance carried to Profit and Loss Account		248,705	367,863
		£9,540,834	£8,702,689

FOR THE YEAR ENDED 31st MARCH, 1958.

Cr.

		1956/57
	£	£
By Electricity Charges	9,431,248	8,587,370
„ Meter and other Charges	109,586	115,319
	£9,540,834	£8,702,689

No. 3.

ELECTRICITY (RURAL) REVENUE ACCOUNT

Dr.

	£	£	1956/57 £
To Electricity Production Account		1,636,616	1,383,434
,, Distribution Charges :			
Operation and maintenance	211,375		
Reserve for depreciation and renewals	587,000		
Interest	845,189		
Capital repayments	131,989		
Supervision and local administration	241,218		
		2,016,771	1,723,271
,, General Administration		260,908	237,340
		£3,914,295	£3,344,045

No. 4.

Dr.

ELECTRICITY PROFIT AND LOSS ACCOUNT

	£	£	1956/57 £
To Interest payable to the Minister for Finance	2,814,911		
,, Interest on E.S.B. Stocks	489,756		
,, Stock Management and transfer charges	13,364		
,, Other Interest	430,538		
		3,748,569	3,458,332
,, Reserves :			
Capital advances from the Minister for Finance repaid	524,876		
Sinking fund provisions applied in redemption of E.S.B. Stock	161,023		
		685,899	636,955
		£4,434,468	£4,095,287
,, Balance transferred from Rural Revenue Account		552,197	491,645
,, Balance, carried to Net Revenue Account		—	1,891
		£552,197	£493,536

FOR THE YEAR ENDED 31st MARCH, 1958.

Cr.

		1956/57
	£	£
By Electricity Charges	3,341,145	2,835,056
„ Meter and Other Charges	20,953	17,344
„ Balance, carried to Profit and Loss Account	552,197	491,645
	£3,914,295	£3,344,045

FOR THE YEAR ENDED 31st MARCH, 1958. *Cr.*

			1956/57
	£	£	£
By Production Account :			
Interest	1,893,442		
Capital repayments	 413,957		
		2,307,399	1,932,007
„ Non-rural Revenue Account :			
Interest	 482,971		
Capital repayments	 114,310		
		597,281	569,181
„ Rural Revenue Account :			
Interest	 845,189		
Capital repayments	 131,989		
		977,178	821,220
„ Administration :			
Interest	 110,747		
Capital repayments	 25,643		
		136,390	132,589
„ Installations Account :			
Interest	....	7,800	9,400
„ Merchandise Sales Account :			
Interest	....	5,200	5,300
„ Capital Works :			
Interest	....	403,220	625,590
		£4,434,468	£4,095,287
By Balance transferred from Non-rural Revenue Account		248,705	367,863
„ Miscellaneous revenue		44,670	46,665
„ Interest receivable		64,239	79,008
„ Balance, carried to Net Revenue Account		194,583	—
		£552,197	£493,536

No. 5. **INSTALLATIONS TRADING ACCOUNT FOR**
Dr.

			1956/57
	£	£	£
To Cost value of work for which credit had not been taken at 31st March, 1957		74,421	58,704
„ Cost of installation work carried out during the year		314,962	306,434
„ Gross profit, carried down		68,361	64,408
		£457,744	£429,546
To Salaries, wages and State insurance	£ 33,576		
„ Travelling expenses	3,927		
„ Rents and rates	406		
„ Sundry expenses	4,493		
„ General overhead expenses and interest, as apportioned	18,409		
		60,811	53,190
„ Balance, carried to Net Revenue Account		7,550	11,218
		£68,361	£64,408

No. 6.
Dr. **MERCHANDISE TRADING ACCOUNT FOR**

			1956/57
	£	£	£
To Cost of goods sold		438,291	465,693
„ Direct costs in connection with sales ...		50,093	41,353
„ Gross profit, carried down		115,447	108,912
		£603,831	£615,958
To Salaries, wages, commission and State insurance	£ 45,938		
„ Travelling expenses	3,487		
„ General publicity	36,885		
„ Rents and rates	1,705		
„ Sundry expenses	8,822		
„ General overhead expenses and interest, as apportioned	22,780		
		119,617	113,294
		£119,617	£113,294
To Loss, brought down		4,170	4,382
„ Net profit on hire purchase sales not realised at 31st March, 1958		45,143	56,329
„ Balance, carried to Net Revenue Account		7,016	37,075
		£56,329	£97,786

THE YEAR ENDED 31st MARCH, 1958.

Cr.

		1956/57
	£	£
By Credit taken for contracts completed and charged	367,042	355,125
„ Cost value of work for which credit has not yet been taken	90,702	74,421
	£457,744	£429,546
By Gross profit, brought down	68,361	64,408
	£68,361	£64,408

THE YEAR ENDED 31st MARCH, 1958.

Cr.

		1956/57
	£	£
By Sales	603,831	615,958
	£603,831	£615,958
By Gross profit, brought down	115,447	108,912
„ Loss, carried down	4,170	4,382
	£119,617	£113,294
By Net profit on hire purchase sales not realised at 31st March, 1957	56,329	97,786
	£56,329	£97,786

No. 7.
Dr.

ELECTRICITY NET REVENUE ACCOUNT

	£
To Balance transferred from Profit and Loss Account	194,583
	194,583
To Balance, brought down	180,017
,, E.S.B. 6% Stock flotation expenses	72,439
,, Fisheries reserve, additional amount reserved in respect of fisheries commercial, protection and development activities	16,551
,, Transfer to reserve for renewals, of credits (per contra), as additional provision for the renewal of plant	154,235
,, Balance, carried forward	22,346
	£445,588

FOR THE YEAR ENDED 31st MARCH, 1958.

Cr.

	£	£
By Installations trading profit	7,550	
,, Merchandise trading profit	7,016	
		14,566
,, Balance, carried down		180,017
		194,583
By Balance, brought forward from last year's account		124,851
,, Transfer from Income Tax reserve		166,502
,, Credits arising consequent on the retirement of assets and the sale of scrapped material		154,235
		£445,588

No. 8. **ELECTRICITY CAPITAL ACCOUNT FOR**

Dr.

	Total at 31st March, 1957 less retirements	Expenditure less retirements during year	Total at 31st March, 1958 less retirements
	£	£	£
To Generation	36,877,859	6,731,150	43,609,009
,, Transmission	12,237,808	796,542	13,034,350
,, Distribution	30,534,865	3,860,232	34,395,097
,, General	2,563,705	235,820	2,799,525
	£82,214,237	£11,623,744	93,837,981
,, Capital Works in Progress, including payments on account to contractors and others			4,274,402
Total of Fixed Assets, carried to Balance Sheet			£98,112,383

THE YEAR ENDED 31st MARCH, 1958.

Cr.

	Total at 31st March, 1958
	£
By Repayable Receipts as per Statement No. 14	78,216,230
,, Non-Repayable Receipts :	
Contributions from Minister for Finance under Electricity (Supply) Acts towards capital cost of supplying rural areas	1,974,400
Contributions from consumers and others for capital works	1,168,332
,, Capital Reserves :	
Repaid capital, less intangible assets written off	3,428,585
Capital Assets Adjustment Reserve, representing surplus arising from revaluation	270,297
Provision for depreciation, renewal and retirement of physical assets, together with proceeds of sale of assets, less physical assets retired	19,545,156
Total Capital Reserves (including non-repayable receipts)	26,386,770
Total of Capital Receipts and Reserves, carried to Balance Sheet	£104,603,000

No. 9. **ELECTRICITY BALANCE SHEET**

LIABILITIES AND RESERVES	£	£	31/3/57
Repayable Receipts, as per Capital Account		78,216,230	71,360,506
Capital Reserves, as per Capital Account		26,386,770	23,137,685
		104,603,000	94,498,191
Loans under the Electricity Supply Board (Superannuation) Act, 1942		4,275	273,600
The Munster and Leinster Bank Ltd. Overdraft		—	1,196,653
Sundry Creditors		2,630,210	2,894,296
Reserves :	£		
Contingencies reserve	1,000,000		
Fuel equalisation reserve	500,000		
Fisheries reserve	56,551		
Other reserves and provisions	30,000		
		1,586,551	1,737,718
Surplus, as per Net Revenue Account		22,346	124,851
		£108,846,382	£100,725,309

AS AT 31st MARCH, 1958.

ASSETS	£	31/3/57 £
FIXED ASSETS, as per CAPITAL ACCOUNT	98,112,383	92,286,072
ELECTRICITY SUPPLY BOARD STOCKS (nominal £135,027) at cost, held by The Munster and Leinster Bank Nominees Limited as depositaries of the Board	132,955	33,669
STOCKS ON HAND AND IN TRANSIT	3,440,701	4,337,694
COST VALUE OF SALES AND INSTALLATIONS WORK FOR WHICH CREDIT HAS NOT BEEN TAKEN	740,202	695,613
SUNDRY DEBTORS, after providing for bad and doubtful debts and including advances for goods not yet delivered	3,242,526	3,334,893
SHANNON FISHERIES, temporary advances	49,720	30,403
TEMPORARY CASH INVESTMENT	3,000,000	—
CASH IN HAND AND WITH BANKS	127,895	6,965
	£108,846,382	£100,725,309

No. 10.
Dr.

SHANNON FISHERIES TRADING ACCOUNT

		1956/57
	£	£
To Operation, maintenance and repair	16,233	14,673
,, Cost of fish purchased	—	743
,, Fishery rates	3,808	4,381
,, General management and overhead expenses	2,366	2,896
,, Transfer to depreciation and renewals reserve	2,260	2,010
	£24,667	£24,703

No. 11.
Dr.

SHANNON FISHERIES PROFIT AND LOSS

			1956/57
		£	£
To Balance, brought from Trading Account		4,183	3,806
,, Interest :—	£		
Payable to the Minister for Finance	2,956		
Apportioned in respect of temporary advances from electricity funds	1,368		
Other interest	480		
		4,804	4,364
,, Reserve, being amount of capital repaid in respect of advances from Minister for Finance		781	743
		£9,768	£8,913
To Balance, brought down		9,768	8,913
,, Balance, brought forward from last year's account		46,783	37,870
		£56,551	£46,783

FOR THE YEAR ENDED 31st MARCH, 1958.

Cr.

		1956/57
	£	£
By Sales of fish, letting of fishing rights and miscellaneous income	20,484	20,897
,, Balance, carried to Profit and Loss Account	4,183	3,806
	£24,667	£24,703

ACCOUNT FOR THE YEAR ENDED 31st MARCH, 1958. *Cr.*

		1956/57
	£	£
By Balance, carried down	9,768	8,913
	£9,768	£8,913
,, Balance, carried forward	56,551	46,783
	£56,551	£46,783

No. 12. **SHANNON FISHERIES CAPITAL ACCOUNT**

Dr.

	Total at 31st March, 1957 less retirements	Expenditure less retirements during year	Total at 31st March, 1958 less retirements
	£	£	£
To Works to preserve fisheries	32,004	—	32,004
,, Other capital expenditure	36,417	585	37,002
	£68,421	£585	69,006
,, Capital works in progress			12,803
Total of fixed assets, carried to Balance Sheet			£81,809

No. 13. **SHANNON FISHERIES BALANCE SHEET**

LIABILITIES AND RESERVES		31/3/57
	£	£
Repayable receipts, as per Capital Account	60,179	60,960
Capital reserves, as per Capital Account	29,500	25,979
	89,679	86,939
Electricity funds, temporary advances	49,720	30,403
Sundry creditors	450	335
	£139,849	£117,677

FOR THE YEAR ENDED 31st MARCH, 1958.

Cr.

		Total at 31st March, 1958
	£	£
By Repayable receipts (*see* Account No. 14)		60,179
,, Capital reserves:		
Repaid capital, *less* intangible assets written off	7,148	
Provisions for depreciation, renewal and retirement of physical assets, together with proceeds of sale of assets, *less* physical assets retired	22,352	
Total capital reserves		29,500
Total of repayable receipts and capital reserves, carried to Balance Sheet		£89,679

AS AT 31st MARCH, 1958.

ASSETS		31/3/57
	£	£
Fixed assets, as per Capital Account	81,809	69,145
Stock of material	1,247	1,451
Sundry debtors	242	298
Deficiency, as per Profit and Loss Account	56,551	46,783
	£139,849	£117,677

Electricity Capital Receipts

Loans and loan-stocks, local authority undertakings ... ...

Minister for Finance:

Advances under the Electricity (Supply) Acts and the Shannon Fisheries Act, 1935 ... ...

Electricity Supply Board Stocks:

5% redeemable 1966-1975 ... ...

6% redeemable 1968-1978 ... ...

Shannon Fisheries Capital Receipts

Minister for Finance:

Advances under the Shannon Fisheries Act, 1935 ... ...

*£5,000,000 stock issued. Further calls are due on 16th April and 7th May, 1958.

AND REDEMPTION THEREOF TO THE 31st MARCH, 1958.

Total Receipts to 31st March, 1958	Redeemed			Balance Outstanding at 31st March, 1958
	Total to 31st March, 1957	Redeemed during year	Total to 31st March, 1958	
£	£	£	£	£
756,021	756,021	—	756,021	—
68,382,236	3,367,230	524,876	3,892,106	64,490,130
10,000,000	154,500	169,400	323,900	9,676,100
4,050,000*	—	—	—	4,050,000
83,188,257	4,277,751	694,276	4,972,027	78,216,230
68,000	7,040	781	7,821	60,179
83,256,257	4,284,791	695,057	4,979,848	78,276,409

LIABILITIES AND RESERVES	£	£	31/3/57 £
REPAYABLE RECEIPTS :			
per ELECTRICITY CAPITAL ACCOUNT	78,216,230		
per SHANNON FISHERIES CAPITAL ACCOUNT	60,179	78,276,409	71,421,466
CAPITAL RESERVES :			
per ELECTRICITY CAPITAL ACCOUNT	26,386,770		
per SHANNON FISHERIES CAPITAL ACCOUNT	29,500	26,416,270	23,163,664
		104,692,679	94,585,130
LOANS under the Electricity Supply Board (Superannuation) Act, 1942		4,275	273,600
THE MUNSTER AND LEINSTER BANK LTD., OVERDRAFT		—	1,196,653
SUNDRY CREDITORS		2,630,660	2,894,631
RESERVES :	£		
Contingencies reserve	1,000,000		
Fuel equalisation reserve	 500,000		
Fisheries reserve	 56,551		
Other reserves and provisions	 30,000	1,586,551	1,737,718
SURPLUS :			
per ELECTRICITY NET REVENUE ACCOUNT		22,346	124,851
		£108,936,511	£100,812,583

NOTE :

At 31st March, 1958, there were outstanding contractual commitments in respect of capital and other expenditure, estimated to amount to £4,000,000.

R. F. BROWNE, *Chairman.*

PATRICK J. DEMPSEY, *Secretary.*

AS AT 31st MARCH, 1958.

ASSETS	£	£	31/3/57 £
FIXED ASSETS :			
per ELECTRICITY CAPITAL ACCOUNT	98,112,383		
per SHANNON FISHERIES CAPITAL ACCOUNT	81,809		
		98,194,192	92,355,217
ELECTRICITY SUPPLY BOARD STOCKS (Nominal £135,027), at cost, held by The Munster and Leinster Bank Nominees Ltd., as depositaries of the Board		132,955	33,669
STOCKS IN HAND AND IN TRANSIT		3,441,948	4,339,145
COST VALUE OF SALES AND INSTALLATIONS WORK FOR WHICH CREDIT HAS NOT BEEN TAKEN		740,202	695,613
SUNDRY DEBTORS, after providing for bad and doubtful debts and including advances for goods not yet delivered.		3,242,768	3,335,191
TEMPORARY CASH INVESTMENT		3,000,000	—
CASH IN HAND AND WITH BANKS		127,895	6,965
DEFICIENCY :			
per SHANNON FISHERIES PROFIT AND LOSS ACCOUNT		56,551	46,783
		£108,936,511	£100,812,583

JOSEPH FOGARTY, *Chief Accountant.*

AUDITORS' REPORT

As Auditors appointed by the Minister for Industry and Commerce, with the consent of the Minister for Finance, we have examined the foregoing Accounts and Balance Sheet. We certify, subject to the note thereon and the undermentioned qualifications, that the Balance Sheet as at the 31st March, 1958, exhibits a true and correct view of the state of the Board's affairs according to the best of our information and the explanations given to us, and as shown by the books of the Board

In the Electricity Production Account the proportion of the cost of Generation, Transmission and purchase of Electricity allocated to non-Rural and Rural Areas is in accordance with estimates made by the Board's officials, and approved by the Board.

Overhead expenses and other items are charged in the foregoing Accounts in accordance with the estimated allocations made by the Board's officials and approved by the Board :

(*a*) The Electricity (non-Rural) Revenue Account has been relieved of a proportion of supervision and administration expenses which has been charged to the Electricity (Rural) Revenue Account, the Installations Trading Account, the Merchandise Trading Account, the Shannon Fisheries Trading Account and to Capital Expenditure on new works.

(*b*) The Interest chargeable to the Electricity Profit and Loss Account has been apportioned and transferred to Electricity Production Account, Electricity (non-Rural) Revenue Account, Electricity (Rural) Revenue Account, Installations Trading Account, Merchandise Trading Account, and to Capital Expenditure on new works. The amount of Capital repaid in respect of advances from the Minister for Finance and others chargeable to Electricity Profit and Loss Account has been apportioned and transferred to Electricity Production Account, Electricity (non-Rural) Revenue Account and Electricity (Rural) Revenue Account.

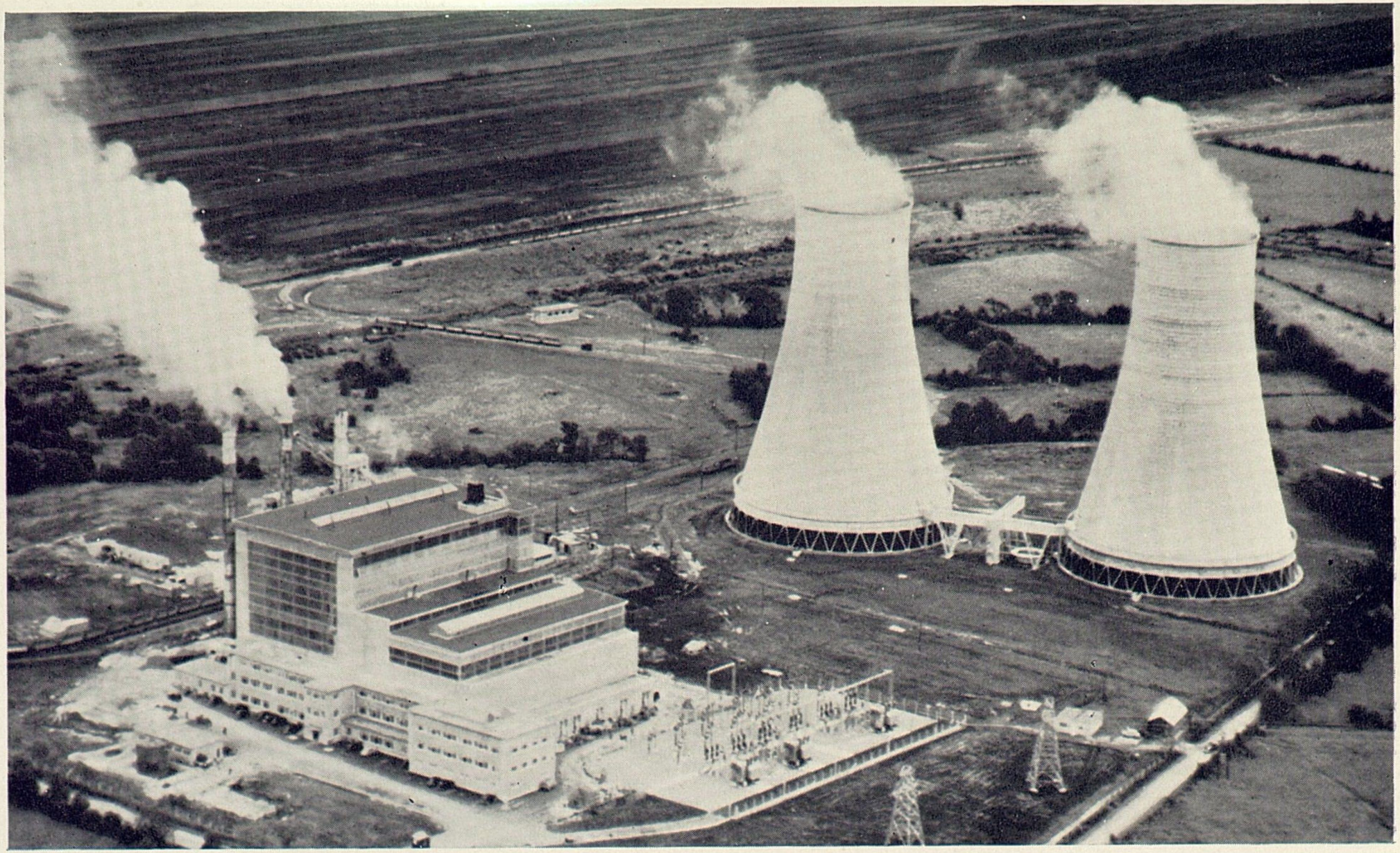
(*c*) Credit has been given to Merchandise Trading Account for a sum representing a proportion of the expenses regarded as relating to the sale of Electricity, and this has been charged to Electricity (non-Rural) Revenue Account and Electricity (Rural) Revenue Account.

Depreciation has been charged in the foregoing Accounts on the physical assets on the same basis as heretofore, and additions have been made to the reserve to provide a fund for the increase in costs of renewals of physical assets, the original cost of which has been fully covered by the amounts already set aside to Depreciation Reserve.

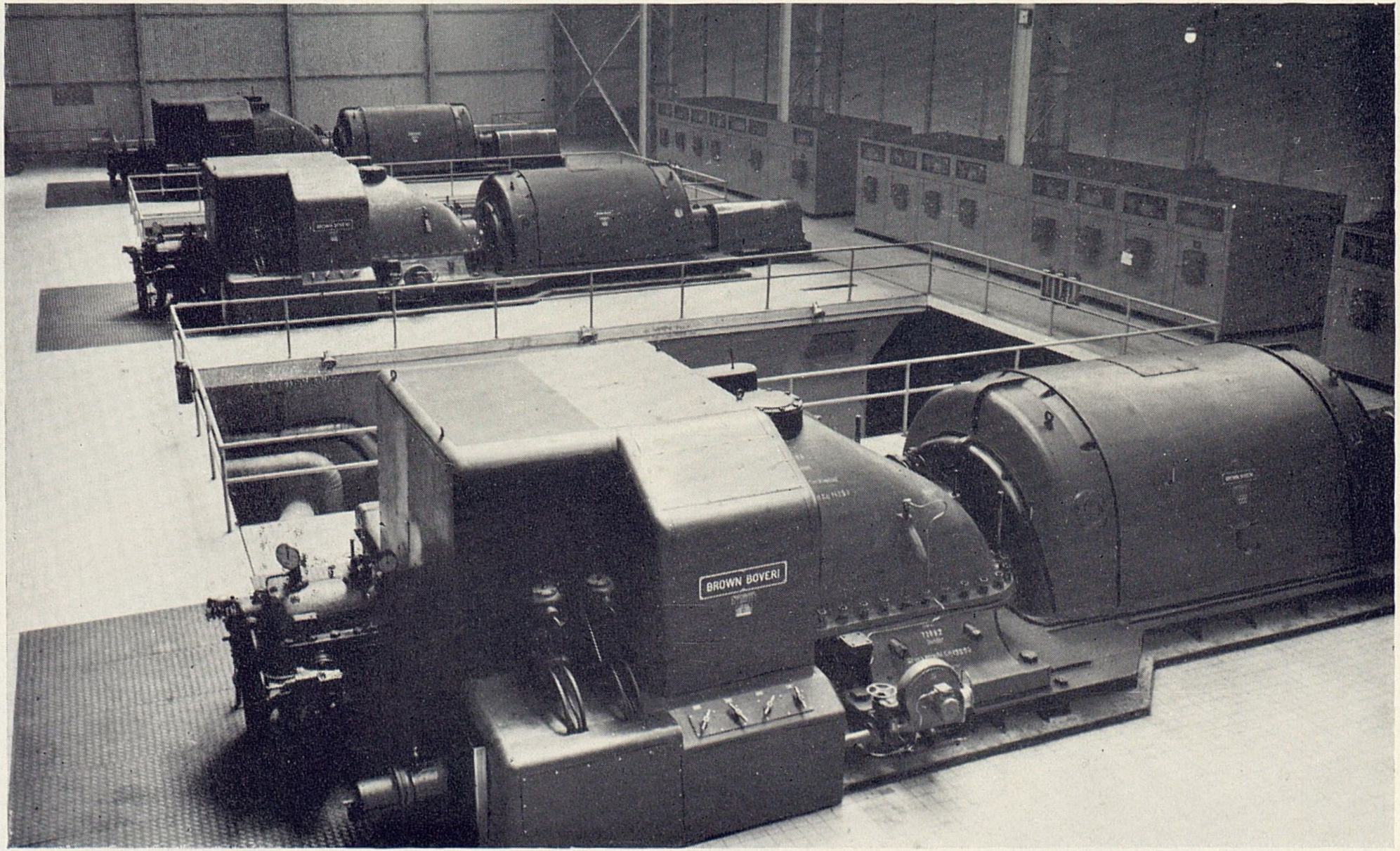
The value of certain intangible assets as classified by the Board's officials has been written off out of the amounts at credit of Capital Reserves with the approval of the Board.

KENNEDY, CROWLEY & CO.,
Auditors.

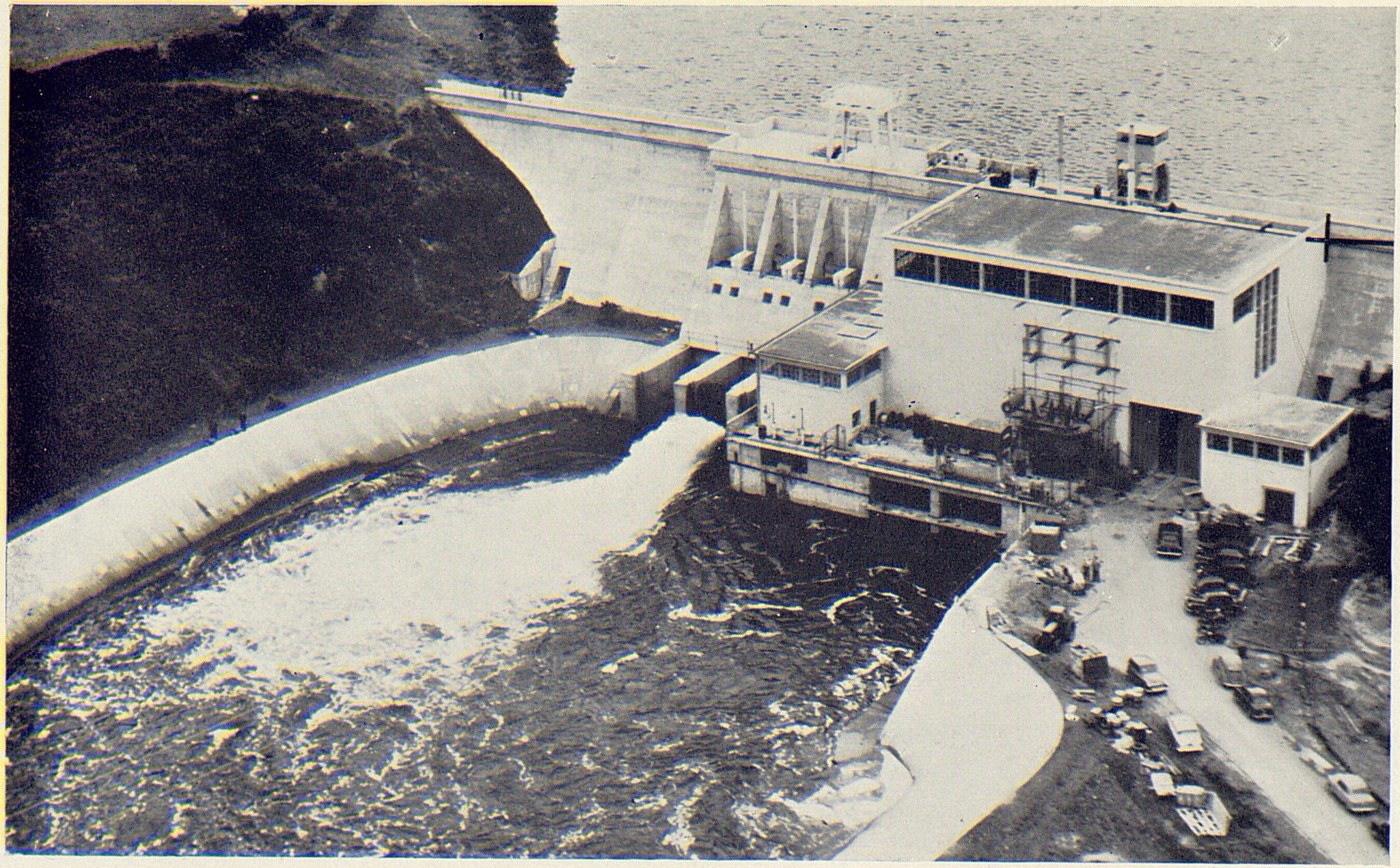
4 AND 5 WESTMORELAND STREET,
DUBLIN, 28th June, 1958.



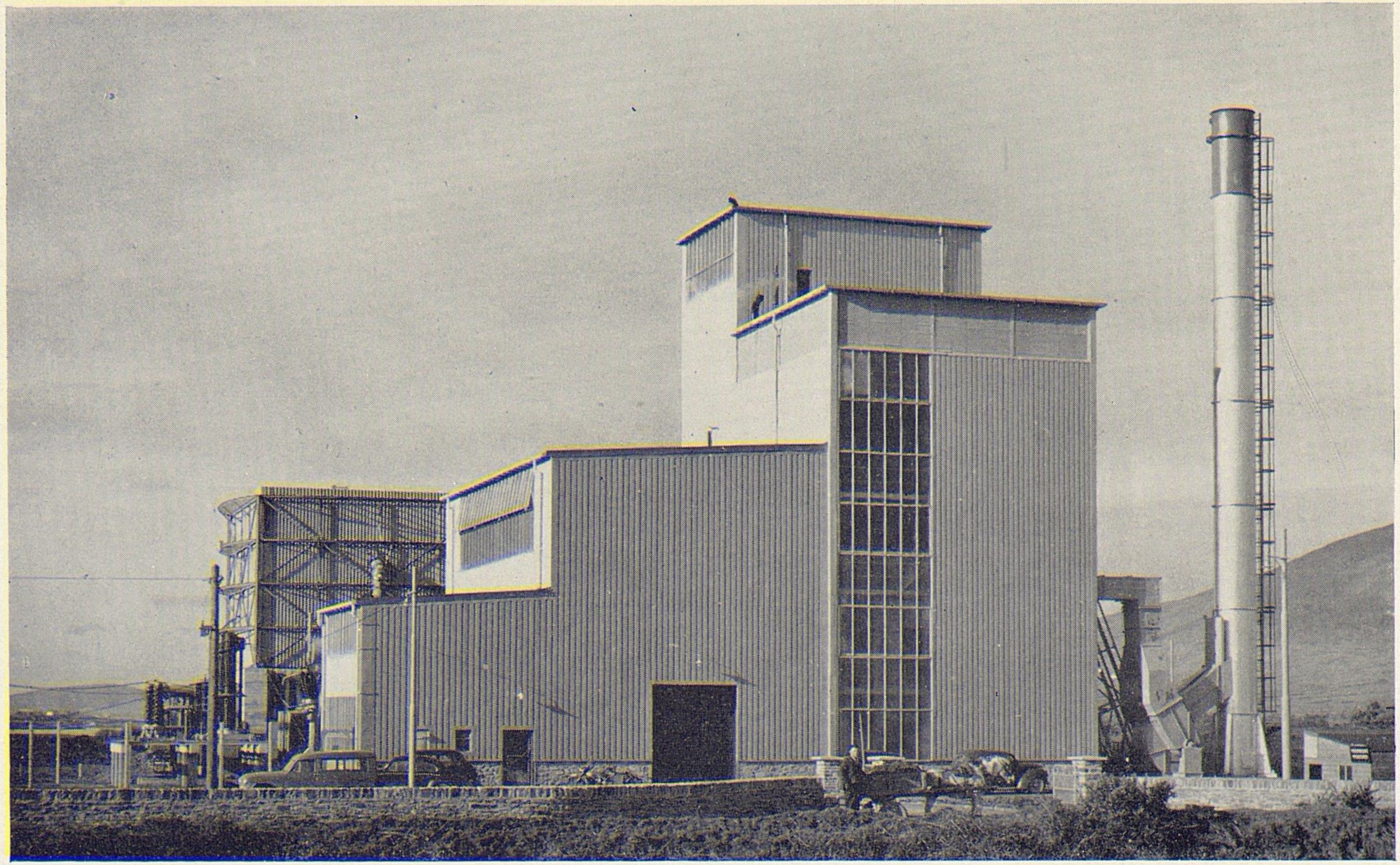
MILLED PEAT STATION AT FERBANE



TURBINE HALL OF FERBANE POWER STATION



DAM AND POWER STATION AT CARRIGADROHID ON RIVER LEE



HAND-WON PEAT STATION AT CAHIRCIVEEN