THIRTEENTH ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

(Including Report on Shannon Fisheries.)

DUBLIN

1939-40

THIRTEENTH

ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

Year ended 31st March, 1940.

(Including Report on the Shannon Fisheries.)

(Presented to the Minister for Industry and Commerce in pursuance of Section 32 (1) and Section 7 (4) of the Electricity (Supply) Act, 1927, and Sections 17 and 18 of the Shannon Fisheries Act, 1935.)

ELECTRICITY SUPPLY BOARD.

Report and Accounts

YEAR ENDED 31st MARCH, 1940.

(Including Report on the Shannon Fisheries.)

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REPORT

OF THE

Electricity Supply Board.

60-62 UPPER MOUNT 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, 1940.

The balance carried down in the Profit and Loss Account amounts to £54,231 as compared with £226,810 in the previous year. In arriving at this figure provision has been made for interest on capital, depreciation, repayment of advances to the Minister for Finance, and repayment of capital in respect of local authority liabilities.

The following are the summarised figures of income and expenditure for the year ended 31st March, 1940, and 31st March, 1939, respectively :—

	Year ended 31st March, 1940.	Year ended 31st March, 1939.
	£	£
Gross Revenue	1,958,491	1,915,115
Working Expenditure (including depreciation)	1,152,044	1,029,149
Balance carried to Profit and Loss Account	806,447	885,966
Interest, repayment of advances, and discharge of Capital Liabilities acquired with Local Authority Undertakings	752,216	659,156
Balance ...	£54,231	£226,810

The year was marked by a very satisfactory increase of 31,787,119 units in the sales of electricity for domestic purposes, motive power, general heating, cooking and water-heating, and by a decrease in sales for general lighting, public lighting and traction of 8,494,169, resulting in a net increase in sales of 23,292,950 units. The revenue from sales increased by £45,747 as compared with an increase of £175,690 in the preceding year. The increase was affected by the loss in revenue (£70,000) through the reduction in the price for general lighting introduced at the close of the previous financial year.

Excluding the increased provision for depreciation, working expenditure showed a growth of £106,895. Of this amount £79,909 related to the cost of fuel. Consumption of coal in the year was exceptionally heavy owing to the prolonged dry weather in the catchment area of the Shannon, and the cost was influenced by the upward trend of prices.

Depreciation amounting to £246,000 has been charged in the Revenue Account, as in previous years, in respect of all renewable assets. The total sum available towards the replacement of wasting assets was £2,053,021 at the 31st March, 1940. All plant and equipment have been maintained in a proper state of repair.

The Profit and Loss Account has been debited with the instalment of advances repayable in the year to the Minister for Finance amounting to £57,105, and the repayment of capital liabilities assumed from Local Authorities amounting to £15,499. The total of the latter liabilities which had been repaid at the 31st March, 1940, was £583,249, leaving a balance of £172,772 which in the main matures for repayment over the next few years.

The net surplus of £54,193 remaining on the Net Revenue Account at the 31st March, 1940, has been transferred to Contingencies Reserve,

The gross amount of capital investment in additional plant placed in commission during the year was £1,099,362 as compared with £821,600 in the preceding year. The following is an analysis of this expenditure :—

	£
Generation	270,177
Transmission	508,436
Distribution	284,777
Equipment, Transport, etc.	35,972
	£1,099,362

The aggregate capital expenditure at 31st March, 1940, was £15,865,633.

SALE OF ELECTRICITY AND NUMBER OF CONSUMERS.

The number of units generated and sold, the average price per unit, the revenue and the number of consumers for each of the eleven years ending on 31st March, 1940, are shown in the following table :—

Year ended on 31st March	Units Generated	Units Sold	Revenue from Sales of Energy	Average Price in Pence per Unit		Total Consumers
				Generated	Sold	
			£			
1930 ..	60,947,775	43,177,228	478,006	1·88	2·66	48,606
1931 ..	119,842,716	85,500,494	735,302	1·47	2·06	69,045
1932 ..	151,843,717	110,677,196	938,933	1·48	2·04	78,511
1933 ..	166,076,275	120,098,523	1,044,475	1·51	2·09	83,052
1934 ..	185,383,327	138,503,130	1,149,681	1·49	1·99	91,267
1935 ..	206,105,570	156,964,146	1,258,388	1·47	1·92	103,037
1936 ..	244,098,692	187,015,590	1,429,888	1·41	1·84	116,704
1937 ..	284,117,500	218,758,085	1,584,433	1·34	1·74	130,483
1938 ..	314,477,200	244,460,235	1,724,873	1·31	1·69	145,230
1939 ...	377,637,400	295,258,706	1,900,563	1·21	1·54	160,382
1940 ...	406,998,700	318,551,656	1,946,310	1·15	1·47	172,545

Appendix I gives details of the number of consumers in each area this year as compared with the previous year, and certain other particulars relating to supply. The total number of new consumers connected was 12,163.

AREA DEVELOPMENT.

The electricity undertakings at Bandon and Skerries were acquired. The following areas were connected to the national transmission network :—

Ashford.	Bruree.	Newtownforbes.
Balgriffin.	Clogh.	Stepaside.
Balinagar.	Glanmire.	
Bluebell.	Haulbowline.	

ANALYSIS OF UNITS SOLD.

The following table gives an analysis of the units sold divided approximately amongst the various categories of supply, and indicates the progress made in these classes.

Class of Supply	Units Sold		Increase or Decrease	Percentage Increase or Decrease
	Year ending 31st March, 1940	Year Ending 31st March, 1939		
Domestic	97,395,688	84,375,923	13,019,765	15·5
General Lighting	29,073,279	29,568,470	(—) 495,191	(—) 1·7
General Heating, Cooking and Water Heating	31,434,050	27,471,752	3,962,298	14·4
Motive Power	129,099,806	115,302,040	13,797,766	11·9
Public Lighting	12,697,132	14,237,480	(—)1,540,348	(—)10·8
Traction	12,480,815	18,939,445	(—)6,458,630	(—)34·1
Miscellaneous	6,370,886	5,363,596	1,007,290	18·8
Totals ...	318,551,656	295,258,706	23,292,950	7·9

DOMESTIC DEVELOPMENT.

The rate of progress experienced in the sale of electricity for domestic purposes in previous years was maintained throughout the year. The following table indicates the measure of the increase in sales.

Year ended on 31st March	Units sold to domestic consumers	Increase in units sold over previous year
1934 ...	29,563,000	—
1935 ...	35,627,000	6,064,000
1936 ..	47,107,000	11,480,000
1937 ...	59,622,000	12,515,000
1938 ...	71,923,000	12,301,000
1939 ...	84,376,000	12,453,000
1940 ...	97,396,000	13,020,000

GENERAL LIGHTING.

The consumption of electricity for general lighting purposes showed a net decrease of 1·7% on that for the previous year. This net decrease in consumption resulted from the prolongation of " summer time " and to a lesser degree from restrictions in lighting under emergency regulations.

GENERAL HEATING, COOKING AND WATER HEATING.

Electricity sold for heating, cooking and water heating to consumers other than domestic consumers, such as public institutions, hotels, restaurants, schools, etc., is included under this heading. Consumption for general heating showed an increase of 12%, for general cooking 22%, and for water heating 18% on the consumption for the previous year. The following table shows the progress in units sold under these headings.

Year ended on 31st March	Units sold for General Heating Cooking and Water Heating	Increase in Units sold over previous year
1934 ...	12,814,000	—
1935 ...	15,587,000	2,773,000
1936 ...	19,535,000	3,948,000
1937 ...	21,472,000	1,937,000
1938 ...	23,923,000	2,451,000
1939 ...	27,472,000	3,549,000
1940 ...	31,434,000	3,962,000

INDUSTRIAL MOTIVE POWER.

The total recorded industrial motive power, representing motors of ½ H.P. and upwards, connected to the Board's system at the end of the financial year was 115,733 H.P., being an increase of 7,904 H.P. on the previous year.

Units sold for industrial motive power purposes showed an increase of approximately 14 million units on the previous year's sales of 115 million units. The following table sets out an analysis of units sold and shows the progress in industrial motive power.

ANALYSIS OF UNITS SOLD FOR INDUSTRIAL MOTIVE POWER.

Year ended on 31st March	In Dublin City	In Cork City	In rest of country	In whole country
1934	23,046,000	7,735,000	11,858,000	42,639,000
1935	26,040,000	9,064,000	14,887,000	49,991,000
1936	29,807,000	12,436,000	20,092,000	62,335,000
1937	31,911,000	14,842,000	25,878,000	72,631,000
1938	33,653,000	14,737,000	32,128,000	80,518,000
1939	35,486,000	14,741,000	65,075,000	115,302,000
1940	38,344,000	15,473,000	75,283,000	129,100,000

PUBLIC LIGHTING.

The total number of public lighting lamps supplied from the Board's system was 27,523, an increase of 1,470 lamps over the previous year. Prior to the outbreak of war, the Board had contracted for a sale of 15,899,110 units of electricity to public authorities for public lighting purposes, being an increase of some 12% on the sales for the previous year. Emergency reductions in public lighting resulted in actual sales being reduced to 12,697,132 units, representing a decrease of some 11% on the consumption for the previous year.

TRACTION.

With the continuation in the change-over in Dublin of the electric tramway system to oil-driven buses, the consumption of electricity for traction purposes showed a further decrease of 34% over the year.

SALES OF APPLIANCES.

The sale of appliances and apparatus for which credit has been taken amounted to £87,436 12s. 9d., which compares with a figure of £79,573 13s. 3d. for the previous year. The rate of gross profit on sales was 17·1%. Having been charged with overhead expenses and interest on working capital, the Merchandise Trading Account showed a net profit of £5,423 15s. 0d. The cost value of transactions for which credit has not yet been taken amounted in the present year to £38,181, as against a figure of £34,831 for the previous year.

CONSUMERS' INSTALLATION DEPARTMENT.

The credit taken for contracts completed and invoiced for work carried out by the Department amounted to £64,623 9s. 4d., as compared with a figure of £66,627 14s. 6d. for the previous year. The rate of gross profit was 20·6%. Having debited to the Installations Trading Account overhead expenses and interest on working capital, there was a net profit of £1,172 16s. 8d.

GENERATION.

The statistics of generation in both the main and local stations, and the load development on the main system, are shown in the following table, together with the corresponding values for the preceding year.

UNITS GENERATED.					Load Development (Main Stations)	
Year ended on 31st March	Main Stations		Local Stations	Total of all Stations	Maximum Daily Output in KWH.	Maximum Load in K.W.
1940	Ardnacrusha ...	210,248,900				
	Pigeon House ...	195,359,000				
	Cork ...	952,700				
	Total ...	406,560,600	438,100	406,998,700	1,738,000	118,700
1939	Ardnacrusha ...	286,483,600				
	Pigeon House ...	89,477,600				
	Cork ...	1,028,200				
	Total ...	376,989,400	648,000	377,637,400	1,725,000	118,500
	Increase during year ended 31st March, 1940 ...		—	29,361,300	13,000	200

The total number of units generated (406,998,700) represents an increase of 7·8% on the output of the previous year. The average yearly load was 46·3 M.W. The yearly load factor, on the basis of units generated, was 39·0% compared with 36·4% last year.

For the purpose of reference the following information is contained in the Appendices :—

(i) Duration of load curve for the main system ... ... Appendix III.
(ii) Distribution at high tension of units generated ... ... Appendix IV.
(iii) Monthly output of all stations ... ... Appendix V.
(iv) Typical daily load curve for each quarter ... ... Appendix VI.
(v) Capacity of the Board's main generating stations ... Appendix VII.
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EXTENSION OF PLANT AND NEW WORKS.

Shannon Works :

At the end of the year the work on the extension and conversion of the oil stores at Ardnacrusha power station to form a new workshop with a floor space of about 5,000 sq. ft. had been almost completed.

Work was commenced on the re-arrangement of the 10kV., 38kV., and 110kV. circuits. Plans were completed for an additional 38kV. circuit to Limerick, and an additional 110kV. circuit for the new 110kV. line to Carrick-on-Shannon.

Pigeon House Works :

In the course of the year the following works, involved in the extension of the Pigeon House station, were completed :—

(a) The erection and placing in commission of the 20/25 M.W. steam turbo-alternator set (No. 5).

(b) The erection and placing in commission of two steam boilers, each of 100,000 lbs. steam per hour capacity (Nos. 8 and 9).

(c) The installation of a new 25,000 kVA. 5/38 kV. transformer directly coupled to generating unit No. 5.

(d) The erection and placing in commission of the 1,600 B.H.P. auxiliary Diesel alternator set.

(e) The completion of two new 38 kV. circuits to control the two new 38 kV. underground cables to Milltown transformer station.

The following plant was in course of erection or on order :—

(a) An automatic fire protection installation for the protection of switchgear, transformers and cables was in course of erection.

(b) A chlorination plant to operate on condensers was ordered. Erection will take place in the coming year.

The capacity of the Pigeon House station is now :—

Steam boiler capacity :—

9 boiler units, each having a normal rated capacity of 100,000 lbs. of steam per hour.

4 boiler units, each having a normal rated output of 25,000 lbs. of steam per hour.

Generating capacity :—

Steam Turbo-Alternator Set				No. 1	Max. Continuous Rating		5	M.W.	Max. kVA.	6,250
,,	,,	,,	,,	2	,,	,,	10	,,	,,	12,500
,,	,,	,,	,,	3	,,	,,	20	,,	,,	25,000
,,	,,	,,	,,	4	,,	,,	20	,,	,,	23,000
,,	,,	,,	,,	5	,,	,,	20	,,	,,	25,000
,,	,,	,,	,,	6	,,	,,	20	,,	,,	25,000
Diesel Alternator Set			...		...	...	1.1	M.W.		

LIFFEY HYDRO-ELECTRIC DEVELOPMENT

The manufacture of the turbines, generators, surge tank, penstocks and cranes at the Works of the Contractors has been proceeding during the year, and the first deliveries of the mechanical plant took place early in March.

The plant programme provides for the commencement of erection in May, 1940, and completion in the summer of 1941.

The work on the erection of the Poulaphouca Dam and the intake to the tunnel was completed to the underside of the superstructure. The gate on the diversion culvert in the dam was closed, and the filling of the lower portion of the main reservoir commenced on 12th March. The water will have reached a height of 571 ft. O.D. early in April, at which level it will be maintained until the works in the reservoir area and the plugging of the diversion culvert are complete. The top water level for storage will be 615 ft. O.D.

The excavation and the construction of the foundations for the Poulaphouca power station and penstocks were completed and preparations were advanced to the stage of commencement of work on the superstructure of the station. The excavation of the tunnel, 400 yards in length, between the station and the reservoir, was completed during the year.

The excavation for the dam at Golden Falls was also completed and work on the construction of the dam is in progress.

The erection of the new bridges, both at Burgage and at Blessington, was finished. The third bridge at Humphreystown was in course of construction.

Arrangements have been concluded with the owners of all the lands which will be flooded by the new reservoir, and agreement on the compensation payable has already been reached in almost all cases. Work on the clearing of buildings, trees and fences is well advanced. Contracts have also been placed for the supply and erection of the permanent fencing around the reservoir site.

The number of men employed throughout the year has varied from 300 to 400.

UTILISATION OF PEAT FUEL.

The Board has had under consideration the construction of a peat-fired generating station, and the technical and economic aspects of the utilisation of this fuel have been investigated. The availability of adequate supplies of peat will be an important factor in the economic operation of the station. The Department of Industry and Commerce has assured the Board that the production of the Clonsast Bog will be increased to meet the large demands of a generating station, and on the basis of these assurances a suitable site has been selected, and steps are being taken to empower the Board to proceed with this project.

OTHER WATER POWER RESOURCES.

Subsequent to the completion of the hydrometric investigations for the River Liffey Development, work was commenced on an examination of the potentialities of various rivers in the country for hydro-electric development. Certain possible power sites have been selected and arrangements have been made for the keeping of flow records in collaboration, where mutually convenient, with the Drainage Department of the Office of Public Works. In this connection special automatic water level recorders have been installed on the Erne, the Boyne and the Lee. The number of such observation stations may be increased from time to time.

Flow observations on the River Erne have been made since early in 1938, and detailed surveys of both river banks and the river channel have been completed. The Erne investigation is still proceeding.

TRANSMISSION AND DISTRIBUTION SYSTEMS.

The following constructional work involving extensions and additions to the transmission and distribution lines was carried out :—

	Miles.
(1) Low tension overhead mains	85·2
(2) Low tension overhead mains (reconstructed or strengthened)	32·8
(3) Low tension underground mains	22·0
(4) 5 kV. underground cables	1·25
(5) 10 kV. underground cables	10·0
(6) 38 kV. underground cables	10·0
(7) 10 kV. overhead transmission lines	65·3
(8) 38 kV. overhead transmission lines	7·64
(9) 110 kV. overhead transmission lines	99·2

The erection of the new 110 kV. line from Ardnacrusha to Carrick-on-Shannon was completed and the line was placed in commission temporarily at 38 kV.

The programme for the building of the new 110/38 kV. stations at Waterford, Carrick-on-Shannon, and Drogheda, and an extension of the Kilbarry 110 kV. station was interfered with by the war. Temporary arrangements were effected, however, at Waterford and Kilbarry so that the new 110 kV. line Dublin—Waterford—Cork was commissioned at 110 kV., and a feed point to the 38 kV. transmission system was provided from it at Waterford to serve as a provisional station. Arrangements are being made to provide temporary 110 kV. stations at Carrick-on-Shannon and Drogheda during the coming year.

The extension of the Inchicore 110/38 kV. station was completed during the year.

The installation of automatic fire protection for the transformers and switchgear in the Fleet Street station was commenced.

The additional transformer stations which have been placed in commission and the increase in transformer capacity are shown in Appendix VIII. Although the figures in the Appendix show an increase of two in the number of 5 kV. stations in commission, actually three new stations were placed in commission and one obsolete station was withdrawn from service.

The four new 38 kV. stations commissioned were at Ballina, Enniskeane, Haulbowline and Navan.

The stations at Foxford and Dunmanway, which were previously equipped for 10 kV. working, were re-equipped for operation at 38 kV.

The 38/10 kV. stations at Swinford, Bandon and Ennis were extended.

38 kV. underground cables were laid in duplicate, together with the necessary pilot and telephone cables, between Pigeon House generating station and the Milltown 38/10 kV. transformer station. These cables were laid to connect into a new 38/10/5 kV. transformer station, the erection of which will commence on a site adjacent to the former Pembroke generating station during the coming year.

As a result of the increase in generating capacity, investigations into the capacity of the high tension switchgear throughout the system were continued, and a number of 38 kV. and 10 kV. circuit breakers were replaced by more modern circuit breakers of higher rupturing capacity. This work is proceeding, and a number of the new circuit breakers are being equipped with mechanical closing devices where they are operated at points on the net work at which the calculated short circuit current is high.

WATER STORAGE AND SHANNON RIVER CONTROL.

The following data in connection with the flow of the River Shannon is contained in Appendix X :—

(i) Daily water levels of, and average daily outflow from, Lough Allen, Lough Ree and Lough Derg respectively.
(ii) Average daily outflow from Parteen Weir.
(iii) Average daily consumption at the Power Station.
(iv) Average daily outflow at Killaloe.

The average inflow to the Shannon Catchment at Killaloe for the calendar year 1939 was 168·0 cbm/sec. or 86·4% of the mean of 194·4 cbm/sec. over a long period of years. The inflow was continuously below the mean flow during the seven months, April to October inclusive, and the average during this period was only about 36% of the mean flow for the same period. The average flow during each of the past eight years, with the exception of 1938, has been below the mean flow. The water used for power generation amounted to 68·7% of the total inflow for the calendar year 1939.

The important hydrometric figures for the year ended 31st March, 1940, are as follows :—

Total average rainfall in Shannon catchment	...	...	35·6 inches
Average inflow to Shannon catchment	...	...	156·1 cbm/sec.
Average water used at Ardnacrusha	...	...	108·7 cbm/sec.
Average water used per unit generated	...	...	16·4 cbm.
Maximum level reached in Lough Derg	...	...	33·6 mtrs. O.D.
Minimum level reached in Lough Derg	...	...	32·3 mtrs. O.D.
Average available head at Power Station	...	...	28·2 metres.
Maximum available head at Power Station	...	...	30·3 metres.
Minimum available head at Power Station	...	...	25·1 metres.

PERMITTED UNDERTAKINGS.

At the 31st March, 1940, there were 85 permitted undertakings holding permits from the Board as compared with a figure of 87 at the end of the previous year. During the year 2 permits lapsed as a result of the acquisition of the undertakings ; 3 permits were not renewed owing to cessation of supply, and 3 new permits were granted. Particulars of all permitted undertakings, except where the number of consumers supplied is 3 or under, are contained in Appendix XI.

STAFF.

The numerical strength of the Board's regular staff at the 31st March, 1940, was 2,328.

The Board again desires to express its appreciation of the capable and willing manner in which all members of the staff have carried out their duties.

(Signed) R. F. BROWNE, Chairman,
J. M. FAY,
LIAM FORDE,
HENRY KENNEDY,
LAURENCE J. KETTLE,
T. A. McLAUGHLIN.

PATRICK J. DEMPSEY, Secretary.
2nd July, 1940.

REPORT

ON THE

SHANNON FISHERIES.

60-62 UPPER MOUNT STREET,
DUBLIN.

TO THE MINISTER FOR INDUSTRY AND COMMERCE.

In accordance with the provisions of Sections 17 and 18 of the Shannon Fisheries Act, 1935, the Board presents the Annual Report and Accounts for the year ended the 31st March, 1940.

In the absence of revenue from salmon fishing, which has not yet commenced on a commercial basis, the Trading Account shows a debit balance of £2,780 9s. 6d. In arriving at this figure the special grant to the Limerick Board of Conservators, to which reference is made below, has been charged. Having debited interest on the capital invested in the fisheries, the deficiency for the year amounted to £8,086 13s. 2d.

The total income of £3,908 6s. 3d. includes £3,340 from the sale of eels, and £380 from lettings for rod fishings.

During the year under review the owners of nearly all the fisheries which vested in the Board under the Shannon Fisheries Act, 1938, had been compensated, the total number who received compensation being thirty-one. It is anticipated that during the coming year it will be possible to dispose of all outstanding claims.

SALMON FISHERIES.

The construction of the salmon-catching weir in the vicinity of Limerick had been almost completed at the end of the year. It is hoped to have it partially in operation for the months of May and June, 1940, and fully in commission for the 1941 salmon season.

A grant of £2,600 for the continued intensive protection of the fisheries on the Shannon and its tributaries was made to the Limerick Board of Conservators. This is £400 lower

than the grant last year partly because it has been possible, on the basis of the experience of the previous year, to reduce the number of fishery wardens in some areas, and partly because of an increase in the revenue of the Board of Conservators.

SALMON (ROD) FISHERIES.

Some lettings were made for the rod fisheries at Castleconnell and a fair number of fish was killed. The total revenue received from lettings was £380. As a result of the work carried out last year most of the salmon pools fished reasonably well, and it is anticipated that, with the increasing stock of fish in the River, fishing at Castleconnell will continue to improve.

EEL FISHERIES.

The eel fisheries at Athlone, Castleconnell and Killaloe were operated by the Board, and resulted in a catch of approximately 26 tons of eels. The take at the Killaloe and Athlone weirs increased substantially on that of last year, but owing to a dry winter, the catch at Castleconnell showed a decrease. A considerable stock of eel fry ascended the river during the summer months.

OYSTER FISHERIES.

An Order was made in June, 1939, under the provisions of the Oyster Cultivation (Ireland) Act, 1884, enabling the Board to revive and develop the cultivation of oysters on a commercial basis in the Shannon estuary. Some six hundred thousand seed oysters imported from Brittany have been planted in ten beds in the estuary. No attempt will be made to market the oysters until such time as the oyster-purification plant, which is in course of construction, has been put into operation.

(Signed) R. F. BROWNE, Chairman.
J. M. FAY,
LIAM FORDE,
HENRY KENNEDY,
LAURENCE J. KETTLE,
T. A. McLAUGHLIN.

PATRICK J. DEMPSEY, Secretary,

2nd July, 1940.

LIST OF APPENDICES.

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II.—Rates of Charge for general supply to cinemas and cinema theatres.

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VIII.—Transmission and distribution systems in commission.

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XI.—Particulars of authorised and permitted undertakings providing supply at 31st March, 1940.

XII.—Units generated from 1st April, 1928, to 31st March, 1940.

DUBLIN No. 1 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Dublin City	475,594	50,415	52,841	25,907	26,881
Rathmines		7,561	8,038		
Terenure and Kimmage ...		2,268	2,673		
Crumlin		4,790	5,846		
Rathfarnham		699	776		
Pembroke		8,660	9,095	2,628	2,883
Templeogue		146	159	Nil	Nil
Firhouse		27	28	Nil	Nil
Woodtown		1	1	284	284
TOTALS ...	475,594	74,567	79,457	28,819	30,048

CORK No. 1 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Cork City	99,011	10,856	11,870	16,911	17,312
TOTALS ...	99,011	10,856	11,870	16,911	17,312

ATHLONE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Ahascragh	269	42	42	6	14
Athleague	208	12	15	Nil	Nil
Athlone	7,257	1,037	1,056	1,662	1,697
Ballinagar	—	Nil	3	Nil	Nil
Ballinasloe	5,834	279	309	244	373
Ballygar	335	58	59	Nil	4
Ballymahon	643	83	84	22	23
Banagher	720	84	86	45	69
Birr	—	1	1	54	54
Borrisokane	551	103	104	5	5
Clara	1,590	241	244	352	352
Cloghan	188	22	21	Nil	8
Daingean (or Philipstown)	518	39	43	14	14
Edgeworthstown ...	515	71	69	28	28
Eyrecourt	323	27	29	Nil	Nil
Ferbane	301	68	71	2	2
Granard	1,236	114	127	8	17
Kilbeggan	593	72	78	10	10
Kilcormac (or Frankford)	448	44	44	Nil	Nil
Longford	3,807	455	489	76	81
Lorrha	98	12	15	Nil	Nil
Moate	1,326	109	110	2	2
Mullingar	5,237	611	673	444	450
Newtownforbes	369	Nil	32	Nil	35
Portumna	—	1	1	325	325
Roscommon	2,040	261	284	59	60
Tullamore	5,135	625	738	468	1,714
TOTALS ...	39,541	4,471	4,827	3,826	5,337

DUBLIN No. 2 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Baldoyle	765	128	147	12	12
Howth and Sutton ...	4,832	986	1,020	116	116
Raheny	—	154	189	6	10
Coolock	349	47	48	2	2
Artane	996	40	49	Nil	Nil
Santry	116	59	72	19	24
Finglas	1,383	158	223	44	104
Chapelizod	—	245	260	60	65
Knockmaroon	—	8	9	Nil	Nil
Lucan	867	226	253	45	47
Ballydowd	—	20	20	Nil	Nil
Palmerstown	208	31	31	56	56
Bluebell	399	Nil	35	Nil	Nil
The Ranch	—	85	97	15	15
Blackrock and Monkstown	54,129	2,314	2,471	263	308
Cabinteely		63	62	18	18
Carrickmines		78	78	1	1
Dalkey		606	664	89	91
Dundrum		1,380	1,547	59	61
Dun Laoghaire		2,782	2,984	515	559
Foxrock		286	305	36	37
Killiney—Ballybrack ...		283	313	33	33
Kill-o'-the-Grange ...		65	82	55	43
Stillorgan		201	212	148	157
Shankill—Loughlinstown ...	2,332	264	287	1	1
Bray	10,347	1,730	1,824	1,175	1,183
Greystones	1,535	471	506	11	12
Ashford	—	Nil	31	Nil	Nil
Balbriggan	2,434	260	273	163	163
Balgriffin	—	Nil	12	Nil	Nil
Ballymore Eustace ...	338	64	68	23	910
Blanchardstown	417	76	88	9	27
Blessington	289	73	75	8	19
Castleknock	1,789	106	117	43	46
Celbridge	627	96	97	76	81

DUBLIN No. 2 DISTRICT—*continued.*

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Clane	145	25	26	Nil	Nil
Clondalkin	967	151	154	1,522	1,522
Clonee	112	15	15	4	4
Clonsilla—Porterstown ...	819	70	77	Nil	2
Delgany—Killincarrig ...	1,060	92	132	Nil	8
Donabate	186	53	63	Nil	Nil
Dunboyne	290	26	26	15	15
Kilcock	475	59	60	23	23
Kill and Johnstown ...	95	27	28	Nil	Nil
Kilmacanogue	—	24	24	Nil	Nil
Leixlip	571	103	104	80	80
Lusk	305	50	51	4	4
Malahide	1,259	238	264	6	6
Maynooth	632	79	91	72	86
Naas	3,290	353	386	131	133
Newtownmountkennedy ...	208	24	43	30	30
Portmarnock	516	88	98	10	10
Poulaphouca	—	1	2	995	995
Rathcoole	223	48	52	6	6
Rathdrum	504	131	136	244	244
Rathnew	547	52	72	7	7
Rush	1,651	225	230	16	16
Saggart	116	17	29	913	913
Sallins and Clongowes ...	276	29	29	179	199
Skerries	2,134	2	337	64	62
Stepaside	102	Nil	14	Nil	Nil
Swords	838	165	169	121	171
Tallaght	406	75	80	138	143
Wicklow	3,183	350	360	117	126
TOTALS ...	105,062	15,957	17,701	7,798	9,006

CORK No. 2 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Ballinacurra	403	58	59	172	172
Ballineen	272	48	48	10	10
Bandon	3,500	7	504	261	427
Bantry	2,643	354	353	100	100
Bishopstown	97	5	27	82	82
Blarney	723	102	107	74	74
Buttevant	881	139	145	53	61
Carrigaline	315	58	61	15	15
Castlemartyr	346	42	42	5	5
Castletownroche	443	34	38	12	12
Clonakilty	2,961	355	372	487	487
Cloyne	684	69	71	45	48
Cobh	6,272	622	661	70	70
Courtmacsherry	221	31	28	Nil	Nil
Crosshaven	724	118	121	60	60
Doneraile	740	101	104	14	31
Drinagh	—	13	13	359	359
Drommahane	96	13	13	Nil	Nil
Dunmanway	1,561	202	209	146	146
Enniskeane	162	26	26	2	2
Fermoy	4,123	337	372	240	481
Glandore	124	7	8	Nil	Nil
Glanmire	213	Nil	28	Nil	Nil
Glanworth	261	34	37	Nil	Nil
Haulbowline	—	Nil	8	—	500
Innishannon	182	8	11	Nil	Nil
Kilnap	272	7	14	119	119
Kinsale	2,661	274	285	108	111
Leap	157	15	18	Nil	Nil
Macroom	2,382	297	351	41	41
Mallow	4,948	549	589	188	188
Midleton	2,711	245	286	202	202
Mitchelstown	1,902	364	372	199	199
Mount Desart	—	1	1	Nil	Nil
Passage West	2,648	112	119	14	14
Monkstown		75	86	Nil	Nil
Rochestown	—	1	1	6	6
Skibbereen	2,541	313	368	103	103
Timoleague	248	21	24	Nil	Nil
Upper Aghada	155	15	15	Nil	Nil
Whitegate	286	42	44	Nil	Nil
Youghal	5,131	286	331	184	184
TOTALS ...	53,989	5,400	6,370	3,371	4,309

DUNDALK DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
An Uaimh (Navan) ...	4,123	556	602	318	318
Ardee	2,383	202	219	156	157
Arvagh	525	61	68	11	11
Athboy	520	102	108	21	22
Bailieborough	854	133	137	108	108
Ballybay	1,034	170	178	14	15
Ballyjamesduff	434	82	84	8	8
Belturbet	1,341	132	137	106	106
Bettystown—Laytown ...	143	41	50	44	44
Blackrock (Louth) ...	695	84	89	26	26
Carrickmacross	2,095	273	298	116	161
Castleblayney	1,725	232	252	74	86
Cavan	3,393	379	395	205	216
Ceanannus Mór (Kells) ...	2,304	300	302	181	207
Clones	2,235	308	315	51	52
Cootehill	1,593	170	180	97	108
Dowdstown	—	2	2	40	40
Drogheda	14,494	1,302	1,455	2,058	2,168
Dundalk	16,214	2,168	2,307	2,792	2,799
Kilcairne	—	1	1	48	48
Killeshandra	473	71	71	204	204
Kingscourt	631	66	69	Nil	Nil
Monaghan	4,780	293	338	401	407
Mornington	115	8	11	Nil	Nil
Newtown	—	1	1	5,431	5,711
Oldcastle	586	123	123	12	12
Randalstown	—	2	1	28	Nil
Roughgrange	—	1	1	120	120
Shercock	228	33	38	12	15
Trim	1,455	150	157	33	33
Virginia	418	59	66	2	2
TOTALS ...	64,791	7,505	8,055	12,717	13,204

GALWAY DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Athenry	1,048	172	172	52	58
Ballyhaunis	1,160	219	216	37	35
Castlebar	4,826	540	576	373	387
Claremorris	1,132	305	313	226	239
Galway	18,294	2,431	2,521	1,184	1,386
Gort	1,034	154	160	87	103
Loughrea	2,891	268	271	122	126
Newport (Mayo) ...	353	54	59	10	10
Tuam	4,181	542	538	140	141
Westport	3,409	464	490	336	351
TOTALS ...	38,328	5,149	5,316	2,567	2,836

LIMERICK DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Adare	497	82	85	93	100
Annacotty	—	11	18	90	90
Ardagh	119	14	14	91	91
Ardnacrusha and Clonlara	249	67	63	338	338
Askeaton	581	83	88	42	42
Ballingarry (Co. Limerick)	339	27	32	20	72
Ballylanders	193	22	29	Nil	Nil
Birdhill	—	7	11	15	15
Bruff	349	66	67	13	13
Bruree	250	Nil	39	Nil	69
Cahir	1,638	228	244	200	201
Cappamore	558	56	54	108	108
Cappawhite	426	47	46	3	3
Cashel	3,028	269	294	122	158
Castleconnell	219	39	37	Nil	Nil
Castlemungret	—	1	1	2,670	2,670
Castletroy	—	19	22	16	16
Castlemahon	72	13	12	91	91
Clarecastle	549	49	52	Nil	Nil
Cloncagh	—	1	1	18	74
Croom	791	71	73	10	12
Doon	478	51	51	9	9
Ennis	5,897	791	841	411	413
Ennistymon	1,264	165	171	145	149
Galbally	195	22	24	15	15
Hospital	609	79	78	36	36
Herbertstown	85	3	3	136	136
Kilfinane	818	109	112	56	26
Kilkee	1,863	208	224	8	8
Kilkishen	108	14	14	Nil	Nil
Killaloe and Ballina (Tipp.)	1,066	148	162	88	88
Kilmallock	861	154	161	198	229
Kilrush	3,426	333	339	21	43
Knocklong	—	17	18	297	303
Lahinch	327	51	50	Nil	Nil
Limerick City	43,663	6,461	6,828	5,836	5,952
Limerick Junction ...	206	39	42	64	84
Lisdoonvarna	193	72	80	21	21
Miltown-Malbay	809	105	118	6	6
Nenagh	4,902	554	574	797	799
Newcastle West	2,943	284	308	126	128
New Inn	117	9	8	96	96
Newmarket-on-Fergus ...	368	53	54	17	17
Newport (Tipp.) ...	494	67	70	122	122
Rathkeale	1,565	172	182	97	98
Rathluirc (Charleville) ...	1,625	274	283	256	260
Rineanna and Ballygireen	—	7	7	107	107
Tipperary	5,384	465	495	281	284
Tulla	474	77	79	6	6
TOTALS ...	89,598	11,956	12,658	13,192	13,598

PORTLAOIGHISE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Abbeyleix	664	131	131	36	36
Athy	3,628	380	399	385	487
Ballinakill	338	23	27	Nil	Nil
Baltinglass	659	97	99	4	4
Ballybrophy	—	1	1	7	7
Ballymany—Loughbrown ...	—	31	31	14	27
Ballyragget	449	50	51	20	20
Ballyroan	127	6	6	Nil	Nil
Borris-in-Ossory	216	30	30	Nil	Nil
Borrisoleigh	544	69	72	34	34
Brownstown	118	28	32	5	5
Callan	1,516	155	165	64	99
Carlow	7,649	652	675	566	576
Castlecomer	809	125	126	1,166	1,191
Castledermot	276	70	69	77	77
Clogh	167	Nil	7	—	Nil
Curragh Camp	—	1	1	258	258
Droichead Nua (Newbridge)	2,375	285	387	383	420
Durrow	462	72	73	6	6
Edenderry	2,093	213	247	223	227
Freshford	456	70	76	48	50
Johnstown (Co. Kilkenny)	307	40	42	Nil	Nil
Kilcullen	441	51	52	8	11
Kildare	1,758	171	265	144	161
Kilkenny	10,237	973	1,018	361	583
Leighlinbridge	425	42	45	107	107
Monasterevan	580	82	81	101	102
Mountmellick	2,314	207	215	55	56
Mountrath	1,116	129	137	15	15
Muine Bheag (Bagenalstown)	1,897	160	181	138	145
Portarlington and Clonsast	1,851	237	291	966	972
Portlaoighise	3,396	535	542	656	702
Rathangan	431	38	40	22	22
Rathdowney	825	112	117	9	9
Roscrea	3,060	407	425	481	497
Stradbally	762	101	103	20	20
Talbot's Inch	108	28	28	13	13
Templemore	1,981	181	187	101	101
The Swan	—	3	4	151	442
Thurles	5,648	658	681	243	243
Tullow	1,616	162	166	67	87
Urlingford	528	36	38	6	7
TOTALS ...	61,827	6,842	7,363	6,960	7,819

SLIGO DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Ballaghaderreen	1,122	227	237	45	60
Ballina	5,728	816	886	310	325
Ballymote	738	151	149	39	48
Boyle	—	1	1	36	36
Carrick-on-Shannon ...	1,015	220	248	62	62
Castlerea	1,313	216	227	42	88
Charlestown and Bellahy ...	773	118	121	11	11
Crockestown (Ballina Quay)	171	11	11	Nil	Nil
Crossmolina	660	91	97	41	44
Curry	—	13	14	Nil	Nil
Elphin	548	72	78	2	2
Foxford	805	102	109	241	241
Gurteen	—	28	28	Nil	Nil
Inniscrone	399	71	78	Nil	Nil
Kiltimagh	1,090	158	161	19	21
Letterkenny	2,649	305	322	75	71
Mohill	714	118	120	8	8
Sligo	12,565	1,351	1,443	496	554
Strokestown	628	124	128	13	13
Swinford	1,203	216	220	62	62
Tubbercurry	823	121	134	24	28
TOTALS ...	32,944	4,530	4,812	1,526	1,674

TRALEE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Abbeyfeale	1,122	173	174	47	48
Ballylongford	514	46	51	Nil	89
Boherbue	242	40	44	22	30
Castleisland	1,325	201	215	165	165
Castlemaine	104	16	17	128	128
Dromtariffe	—	2	2	44	44
Edenburn	—	1	1	18	18
Glin	516	34	38	68	68
Kanturk	1,555	246	259	185	204
Killarney	5,609	591	624	180	185
Killorglin	775	155	163	43	73
Listowel	3,098	431	448	423	461
Millstreet	975	175	179	58	70
Miltown	311	54	60	9	16
Newmarket	838	144	143	6	35
Newtownsandes	230	28	30	Nil	Nil
Tarbert	315	21	23	Nil	Nil
Tralee	10,620	1,446	1,635	1,219	1,217
TOTALS ...	28,149	3,804	4,106	2,615	2;851

WATERFORD DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Arklow	4,680	610	676	318	323
Ballyhale	102	15	17	Nil	Nil
Ballypatrick	—	1	1	33	33
Cappoquin	1,038	133	135	26	26
Carnew	516	47	53	Nil	Nil
Carrick-on-Suir	4,840	477	531	248	254
Clonmel	9,391	671	702	397	421
Dungarvan	5,361	599	627	489	521
Dunmore East	308	60	65	16	16
Enniscorthy	5,873	511	607	447	447
Ferns	342	42	58	21	21
Fethard	1,112	145	153	46	67
Gorey	2,323	262	285	38	46
Graiguenamanagh and Tinnahinch	1,125	67	96	47	50
Lismore	1,194	115	115	8	23
New Ross	5,056	507	532	418	422
Newtownbarry and Carrickduff	766	109	134	40	39
Passage East	431	36	39	Nil	Nil
Piltown	287	42	43	138	139
Portlaw	847	52	56	468	469
Rosslare Harbour and Kilrane	629	78	98	239	239
Rosslare Strand	189	55	47	49	49
Tallow	779	117	111	10	10
Thomastown	769	81	80	4	6
Tramore	2,047	405	448	64	72
Waterford	27,968	3,447	3,596	2,941	2,999
Wexford	12,247	661	705	1,022	1,047
TOTALS ...	90,220	9,345	10,010	7,527	7,739

SUMMARY.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1939	1940	1939	1940
Athlone District ...	39,541	4,471	4,827	3,826	5,337
Cork No. 1 District ...	99,011	10,856	11,870	16,911	17,312
Cork No. 2 District ...	53,989	5,400	6,370	3,371	4,309
Dublin No. 1 District	475,594	74,567	79,457	28,819	30,048
Dublin No. 2 District	105,062	15,957	17,701	7,798	9,006
Dundalk District ...	64,791	7,505	8,055	12,717	13,204
Galway District ...	38,328	5,149	5,316	2,567	2,836
Limerick District ...	89,598	11,956	12,658	13,192	13,598
Portlaoighise District	61,827	6,842	7,363	6,960	7,819
Sligo District ...	32,944	4,530	4,812	1,526	1,674
Tralee District ...	28,149	3,804	4,106	2,615	2,851
Waterford District ...	90,220	9,345	10,010	7,527	7,739
TOTALS ...	1,179,054	160,382	172,545	107,829	115,733

Rates of Charge for General Supply to Cinemas and Cinema-Theatres.

(EFFECTIVE FOR APRIL-MAY, 1939, MAY-JUNE, 1939, AND SUBSEQUENT BI-MENSAL PERIODS.)

Applicable to the aggregate consumption of electricity for motive power and all lighting (including arcs) in the case of consumers classified as "Cinemas" and supplied from the National Transmission Network. Where a restaurant or refreshment business is situated inside the cinema or cinema theatre building and is carried on clearly as a convenience for the patrons of the cinema or cinema theatre and not as a primary interest, the consumption of electricity by the restaurant or refreshment rooms may be regarded as part of the consumption of the cinema or cinema theatre proper for the purpose of the application of these rates of charge. The decision on this matter in individual cases rests with the Board.

(1) FLAT RATE.

In Dublin City Area :—

For the first 1,000 units per two-monthly period	2½d. per unit.
For the excess over 1,000 ,, ,, ,, ,, ...	2d. ,, ,,

In Dublin Environs Area, Cork City Area, and Limerick City Area :—

For the first 1,000 units per two-monthly period	2¾d. ,, ,,
For the excess over 1,000 ,, ,, ,, ,, ...	2d. ,, ,,

In all other areas supplied from the National Transmission Network :—

For the first 2,000 units per two-monthly period	3d. ,, ,,
For the excess over 2,000 ,, ,, ,, ,, ...	2d. ,, ,,

Meter Rentals in all above Areas :—

Up to and including 20 amperes rated capacity	1s. 8d.	Per Two-Monthly Period.
Over 20 up to and including 100 amperes rated capacity ...	2s. 4d.	
Over 100 amperes rated capacity	5s. 0d.	

OR, ALTERNATIVELY :—

(2) MAXIMUM DEMAND RATE.

In all areas supplied from the National Transmission Network :—

For a Maximum Demand between	10 kW. and 50 kW.	a Fixed Annual Charge of £75	Plus an Annual Charge per kW. of Maximum Demand of 170/–
	50 kW. and 100 kW.	,, ,, ,, ,, ,, £100	160/–
	100 kW. and 250 kW.	,, ,, ,, ,, ,, £150	150/–

AND IN ADDITION

For the first 200,000 units per annum	0·66d. per unit.
For the next 500,000 units per annum	0·55d. ,, ,,

The Maximum Demand shall be read bi-mensally by the Board, and, at the end of each completed period of twelve months, an adjusted Account shall be furnished by the Board to the consumer in respect of the said period of twelve months, such adjusted Account to be prepared in accordance with this Schedule, and an adjusted settlement shall forthwith be made between the Board and the consumer on the basis of such adjusted Account for the said period of twelve months.

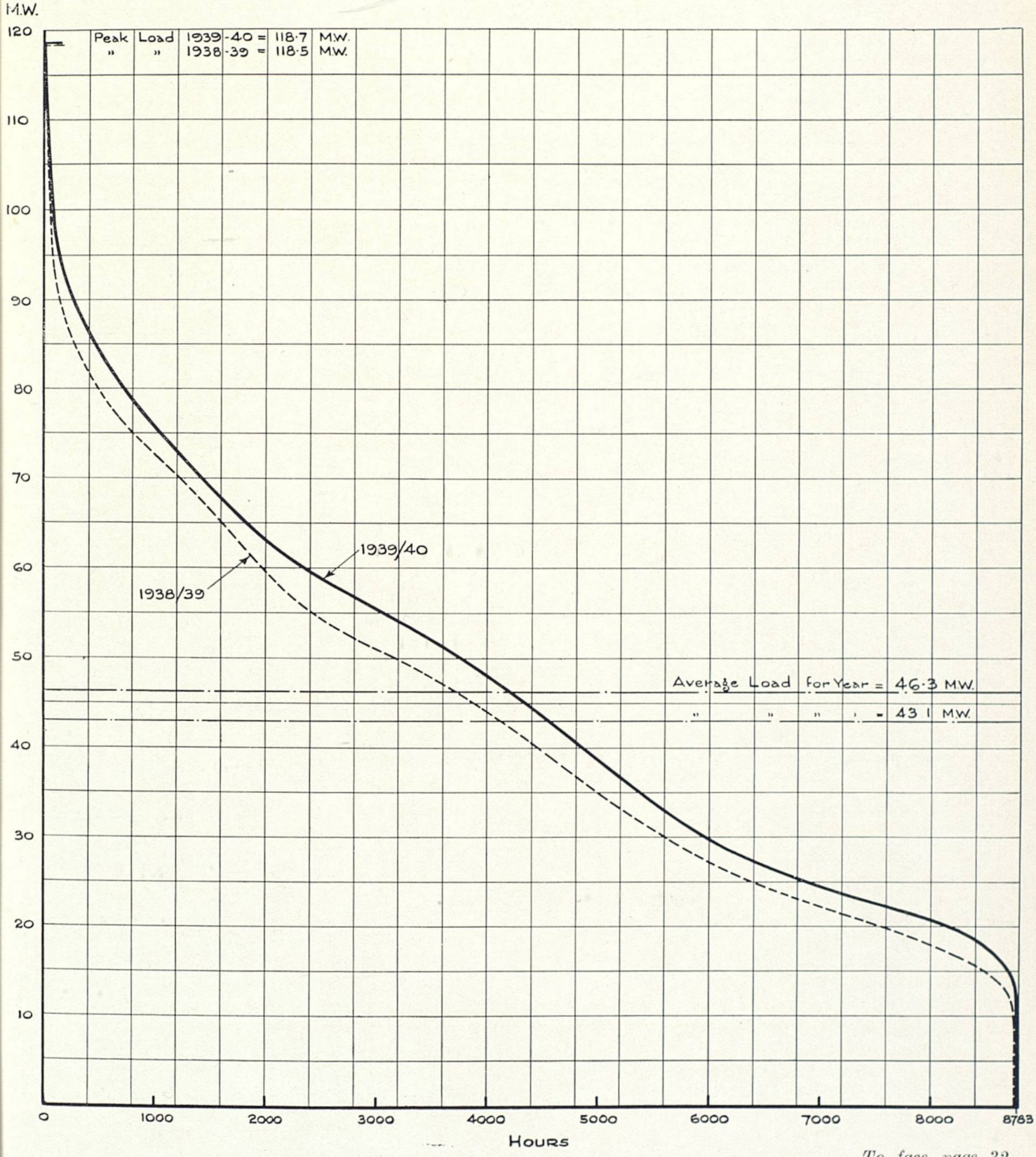
The maximum supply demanded for the purposes of the rates of charge shall be the average of the six bi-mensal readings, provided that no reading is less than 70% of the highest reading recorded within the twelve months. All bi-mensal readings less than 70% of the highest recorded shall, for the purpose of average, be taken as being 70% of the highest recorded within the twelve months.

Bi-mensal Accounts shall be furnished by the Board to the consumer in writing and such Accounts will be assessed in accordance with this Schedule and based on—(*a*) the Maximum Demand recorded in that period of two months, and (*b*) the number of kilowatt hours consumed in that period of two months.

DURATION OF LOAD—MAIN SYSTEM GENERATION.

YEAR ENDING 31ST MARCH, 1940.

APPENDIX III.



To face page 32.

Distribution at High Tension of Units Generated

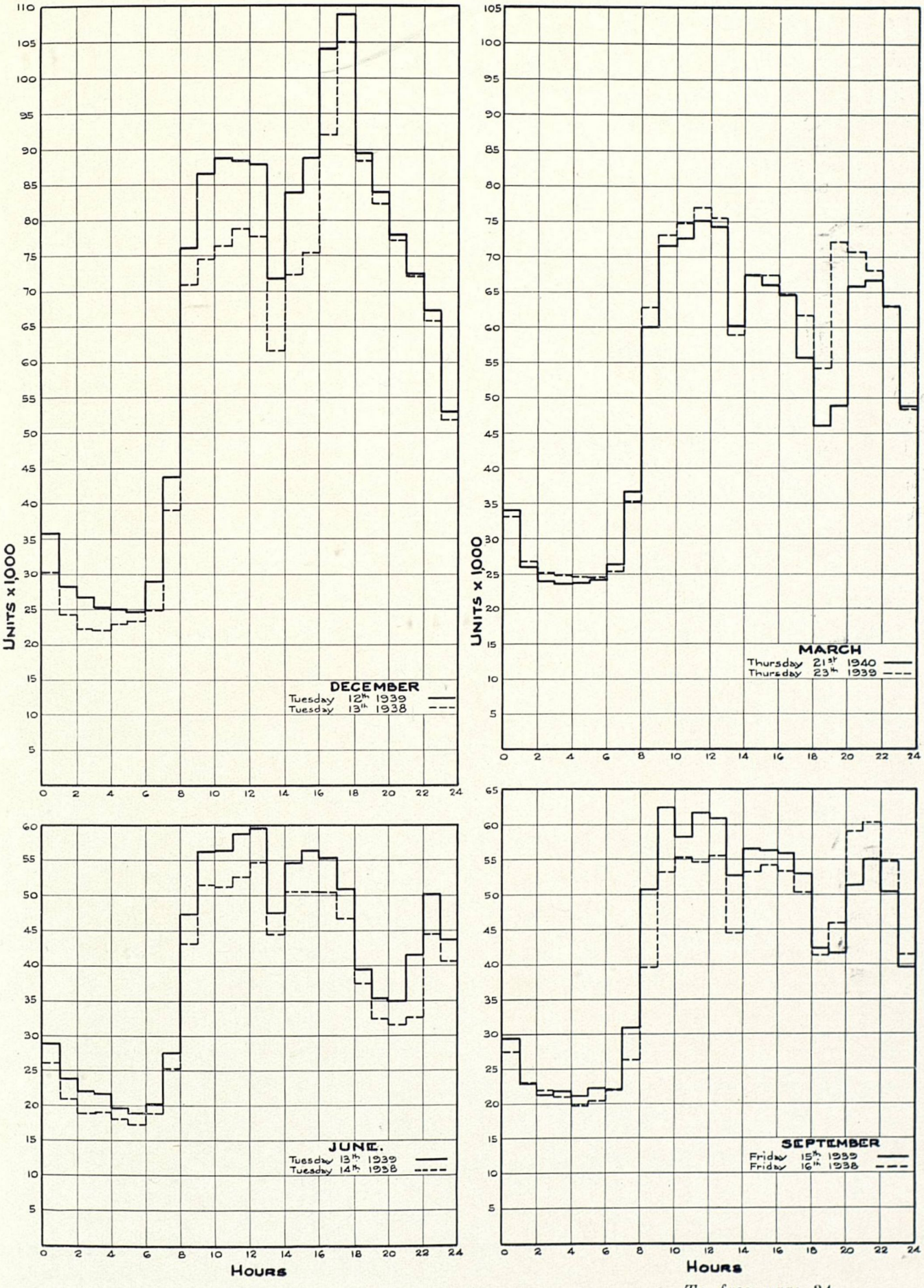
Year ending 31st March, 1940.

District		High Tension Units	Percentage of Total
Dublin City 5 kV. Supply	103,507,900		
Dublin City 10 kV. Supply	27,625,700		
DUBLIN CITY TOTAL		131,133,600	32·2
Dublin United Tramways Co. (1896), Ltd.		12,480,800	3·1
Cork City D.C. Supply	11,101,600		
Cork City A.C. Supply	15,672,700		
CORK CITY TOTAL		26,774,300	6·6
Athlone District		11,946,300	2·9
Cork No. 2 District		8,999,800	2·2
Dublin No. 2 District		41,888,800	10·3
Dundalk District		33,566,400	8·2
Galway District		8,389,500	2·1
Limerick District		28,053,400	6·9
Portlaoighise District		17,013,900	4·2
Sligo District		5,668,500	1·4
Tralee District		5,547,400	1·4
Waterford District		15,969,000	3·9
Station Auxiliaries		20,910,800	5·1
High Tension Losses		38,656,200	9·5
TOTAL GENERATION—ALL STATIONS ...		406,998,700	100·0

Monthly Output (kWH) of the Board's Generating Stations—Year ending 31st March, 1940.

Month (Calendar)	Ardnacrusha	Pigeon House (Dublin)	Cork	Letterkenny	Acquired Stations closed down	Total of all Stations
April	19,921,100	10,279,900	8,700	30,100	4,500	30,244,300
May	11,241,400	17,447,100	—	27,400	3,000	28,718,900
June	2,851,200	23,774,300	—	24,000	2,500	26,652,000
July	3,357,700	23,764,100	80,400	25,600	2,000	27,229,800
August	2,411,800	24,682,100	12,700	24,800	2,000	27,133,400
September ...	3,757,800	25,354,100	43,000	27,300	2,000	29,184,200
October ...	4,413,500	30,004,000	330,200	33,700	2,500	34,783,900
November ...	28,502,900	9,053,700	69,600	38,600	3,500	37,668,300
December ...	38,969,200	4,238,600	—	46,200	3,500	43,257,500
January ...	26,419,900	20,571,900	276,500	49,100	3,500	47,320,900
February ...	34,797,100	4,820,500	131,600	40,400	3,000	39,792,600
March	33,605,300	1,368,700	—	36,400	2,500	35,012,900
TOTALS ...	210,248,900	195,359,000	952,700	403,600	34,500	406,998,700

TYPICAL DAILY LOAD CURVES.



To face page 34.

Capacity of the Board's Main Generating Stations at the 31st March, 1940.

Generating Stations	Type	Installed Capacity
ARDNACRUSHA ...	Hydro	(*a*) 3 Francis Turbines, each rated at 30,000 H.P. coupled to 30,000 kVA generators, each giving an output of approximately 21,000 kW. 1 Kaplan Turbine rated at 30,000 H.P. coupled to a 25,000 kVA generator. Total capacity at Generator Terminals :— 93,500 kW. at 30 m. head. 77,500 kW. at 25·5 m. head. (*b*) 3 Step-up Transformers (10/110 kV) of a total capacity of 90,000 kVA and 3 Step-up Transformers (10/38 kV) with a total capacity of 24,000 kVA.
PIGEON HOUSE ...	Steam	(*a*) Normal steam capacity—Approximately 1,000,000 lbs. per hour. (*b*) Generator capacity—118,000 kVA. (*c*) 5 Transformers (5/38 kV) of 110,000 kVA total capacity.
CORK	Steam	(*a*) Steam capacity equivalent to 5,000 kW. approximately. (*b*) Generator capacity equivalent to 6,500 kW. (D.C.).

Transmission and Distribution Systems in Commission and under Construction at the 31st March, 1940.

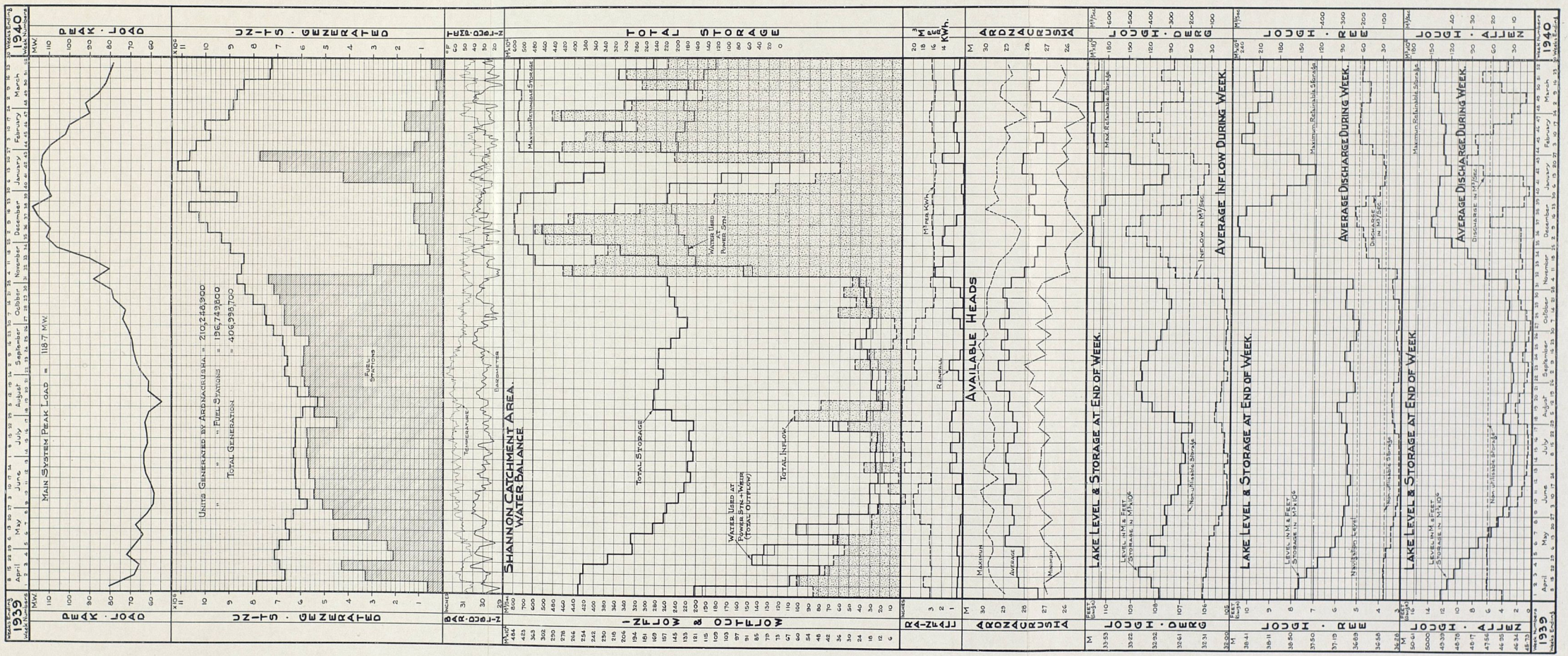
Transformer Stations	Number in Commission	Increase for year	Total Capacity	Increase in capacity for year
110 kV Stations ...	4	1	110/38 kV. Stations=132,000 kVA 110/10 kV. Stations= 22,500 kVA	30,000 kVA —
38 kV Stations ...	90	4	204,490 kVA.	6,080 kVA
10 kV Sub-stations	1,072	94	145,495 kVA.	15,725 kVA
5 kV Sub-stations	104	2	75,398 kVA.	3,010 kVA
D.C. Sub-stations	6	Decrease of 1	9,260 kW.	—
Frequency-Changing Sub-station ...	1	—	6,320 kVA.	—

Transmission and Distribution Systems	Length	Increase for Year	Description
110 kV Lines ...	186·2 Kms.	1·8 Kms.	6×95 sq. mm. Double Circuit.
110 kV Lines ...	593·4 Kms.	157·8 Kms.	3×95 sq. mm. Single Circuit.
38 kV Lines ...	1,825·0 Kms.	12·2 Kms.	3×50 sq. mm.
38 kV Lines ...	325·0 Kms.	—	3×35 sq. mm.
10 kV Lines ...	2,907·4 Kms.	104·5 Kms.	10, 16, 35 and 50 sq. mm.
38 kV Cables ...	59·7 Kms.	15·9 Kms.	3×185 sq. m.m.
38 kV Cables ...	28·6 Kms.	—	3×150 sq. mm.
38 kV Cables ...	9·2 Kms.	—	3× 95 sq. mm., including 1 Km. of Submarine Cable.
10 kV Cables ...	252·2 Kms.	16·0 Kms.	3 × 10 sq. mm. to 3 × 185 sq. mm.
5 kV Cables ...	257·6 Kms.	2·0 Kms.	Ditto.
3·3 kV Cables ...	3·7 Kms.	1·1 Kms.	3×185 sq. mm.

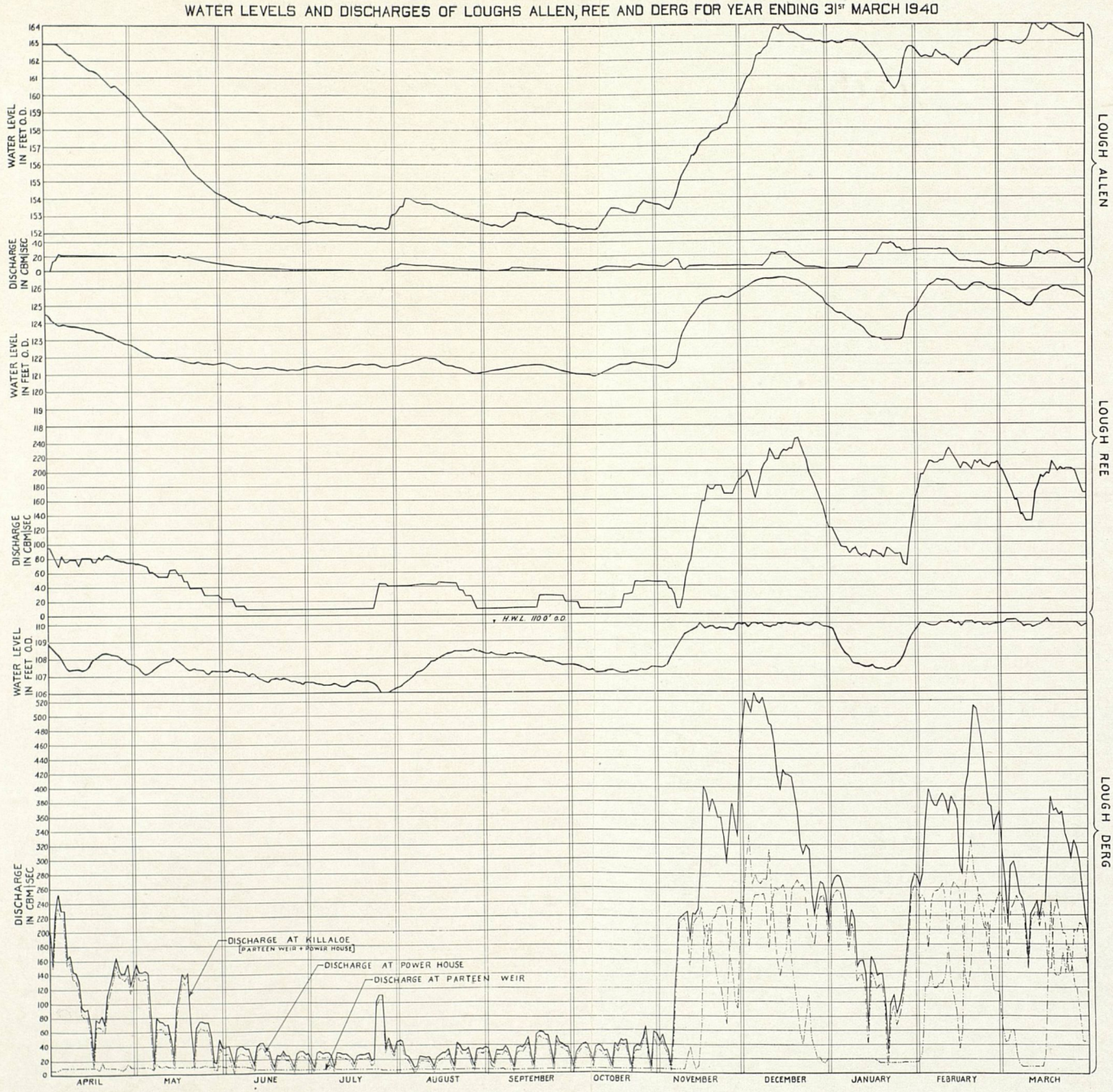
MAIN SHANNON SYSTEM.

WEEKLY SUMMARY OF OPERATING CONDITIONS.

YEAR ENDING 31ST MARCH, 1940.



To face page 36 (a).



To face page 36 (*b*).

Particulars of Electricity Undertakings which at 31st March, 1940, had not been acquired by the Electricity Supply Board.

NOTE.—In 9 cases where the number of consumers is 3 or under, Permits have also been issued. These undertakings are not shown in the following Schedule.

(1) Town	(2) Population	(3) Name of Undertaker	(4) No. of Consumers	(5) Normal Tariffs per Unit for			(6) Units Sold, Year ended 31st March 1940
				Lighting	Heating and Cooking	Power	
Ardara	442	The Ardara Woollen & Industrial Co., Ltd ...	86	10d.	3d.	—	8,604 estd
Ardfinnan	325	Mulcahy, Redmond & Co., Ltd.	9	1/6	—	—	1,548
Balla	282	John McEllin	50	1/-	—	6d.	6,817 estd
Ballinlough	248	Ballinlough Electricity Supply Co. ...	42	1/-	5d.	—	3,027
Ballinamore	814	F. J. McAvinia	119	1/-	6d.	—	20,800 estd
Ballindine	209	E. W. Griffith	25	8d. & 10d.	—	—	1,910
Ballinrobe	1,351	The Ballinrobe Electric & Woollen Co., Ltd.	207	10d.	3d.	—	62,091
Ballybofey and Stranorlar	1,198	Ballybofey & Stranorlar Electric Supply Co.	136	1/-	6d.	6d.	17,118
Ballybunion	543	The Ballybunion Electricity Supply Co., Ltd.	198	1/-	6d.	6d.	23,996
Ballyconnell	276	William Stewart	69	10d.	—	—	6,620
Ballyshannon	2,223	John Myles & Co.	715	6d. & 8d.	1d. & 2d.	1d. & 2d.	193,302
Ballysodare	205	W. G. & T. Pollexfen	37	6d./7d.	2½d.	2½d.	12,896
Belmullet	684	M. McEntyre	1	10d.	—	5d.	9,367
Belmont, Offaly ...	—	Robert Perry & Co. (1927), Ltd. ...	9	6d.	—	4d.	2,642
Birr	3,297	The Birr E. L. & Power Co., Ltd. ...	437	8d.	2d. to 4d.	2d. to 3d.	120,000
Blacklion	110	Capt. W. J. Nixon	25	1/-	—	—	1,889
Boyle	2,093	George Stewart	82	7d.	1d. to 3d.	2d.	28,272

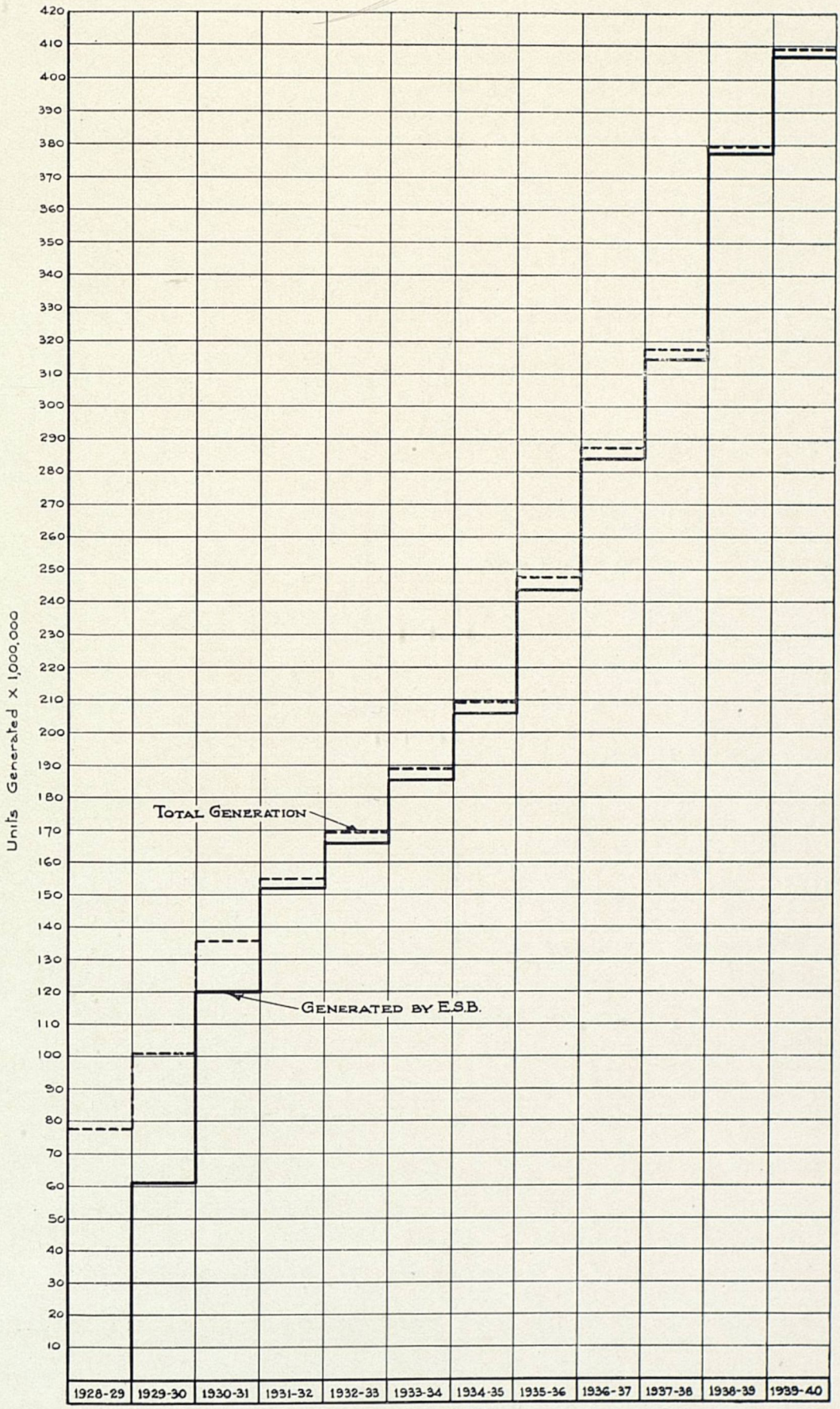
(1) Town	(2) Population	(3) Name of Undertaker	(4) No. of Consumers	(5) Normal Tariffs per Unit for			(6) Units Sold, Year ended 31st March, 1940
				Lighting	Heating and Cooking	Power	
Boyle	—	John Stewart	347	New Housing Scheme Charges: 40 watts. 6d. per week; 65 ,, 9d. ,, ; 100 ,, 1/- ,,	4d. to 7d. Fixed charge plus 1d.	1d. to 4d. ½d. water heating	2d. to 3d.	127,916
Borris, Co. Carlow ...	530	Borris Electricity Co., Ltd.	53	6d. & 1/-	—	4d. & 6d.	9,771 estd.
Buncrana	2,295	The Buncrana Electric Supply Co. ...	342	4d. to 7d.	2½d.	2½d. to 1½d.	282,949
Bundoran	1,352	John Myles & Co.	565	6d.	1d.—2d.	1½d. to 2d.	133,705
Castlebellingham ...	243	Smallwares, Ltd.	10	4d.	1¼d.	1¼d.	14,000 estd.
Cahirciveen	1,680	The Cahirciveen E. L. & Power Co., Ltd.	242	10d.	6½d.	6½d.	34,325
Campile	117	John Kenny	4	1/6	—	—	380
Carlingford	488	The Carlingford Electricity Co., Ltd. ...	60	10d. to 3d.	10d. to 3d.	5d.	9,715
Carndonagh	660	James Kelly	130	10d.	4d.	3d.	19,390
Carrigallen	245	John McLoughlin	4	1/4	—	—	900
Carrigart	115	Miss M. Maguire	11	1/-	—	—	408
Castlepollard	460	The Irish Electrical Construction Co. ...	86	11d.	5d.	3d.	17,280
Clifden	1,019	Clifden E. L. & Power Station	135	10d.	3d.	—	17,000 estd.
Clogheen	479	John Browne	83	11d.	6d. Miscellaneous	—	10,541
Clonmany	123	Patrick Gallen	25	10d.	—	5d.	1,200
Collooney	310	W. A. G. Middleton	72	7½d.	1½d.	Nil	23,778 estd.
Cloughjordan	416	Martin Gleeson	85	11d.	Nil	Nil	14,200
Dingle	1,800	The Dingle E. L. & Power Co.	192	8d. & 10d.	5d.	5d. & 4d.	31,924
Donegal	1,315	J. McGowan & Sons	204	10d.	3d.	3d.	38,185
Drumkeeran	232	The Drumkeeran Electricity Supply Co., Ltd.	51	1/-	—	4d.	4,224 estd.
Drumshambo	553	C. S. Laird, Ltd.	89	8d.	2d.	2d.	19,925
Dromahair	279	Paul Jeiter	32	9d.	3d. & 1½d.	—	12,600 estd.
Dungloe	593	The Templecrone Co-op. Agrl. Society, Ltd.	129	8d.	—	—	5,557
Dunmore Co. Galway ...	482	Dunmore Electric Light Co., Ltd. ...	92	1/-	5d.	—	11,322
Emyvale	237	C. McCluskey	38	8d. & 4d.	—	—	3,288
Enniskerry	145	The Enniskerry E. S. Co-op. Society ...	46	1/-	4d.	4d.	6,217
Foynes	497	Foynes Saw Mills, Ltd.	53	8d.	—	4d.	16,374
Frenchpark	196	Frenchpark Electric Lighting Co., Ltd. ...	35	1/-	5d.	5d.	4,313
Glendalough	—	Messrs. Wynne	10		Included in rent.	—	5,000 estd.
Glenties	360	Glenties Electricity Supply Co., Ltd. ...	79	1/-	3d.	—	8,988
Kenmare	921	Kenmare Electric Supply Co.	180	6d. to 10d.	3d.	3d.	33,000 estd.
Kilkelly	160	Michael Snee	52	8d.	—	—	9,061 estd.

(1) Town	(2) Population	(3) Name of Undertaker	(4) No. of Consumers	(5) Normal Tariffs per Unit for			(6) Units Sold, Year ended 31st March, 1940
				Lighting	Heating and Cooking	Power	
						(miscellaneous)	
Killybegs	631	Rev. Bro. Superior, St. Columba's E. L. Station	87	1/-	—	6d.	8,661
Kilmacthomas ...	357	Patrick Kiersey	39	10d.	—	3d.	5,610
Kinnegad	270	Thomas Dunne	5	11d.	—	—	1,500 estd.
Letterfrack	—	The Superior, Industrial School	9	8d.	—	—	1,472
Malin, Co. Donegal ...	112	Donal McGilligan	21	10d.	—	—	1,440
Manorhamilton ...	976	Manorhamilton & District E. L. Co., Ltd. ...	163	6½d. & 9½d.	2d.	2d.	37,526
Milford, Co. Donegal ...	377	McMahon Bros.	41	1/-	—	—	3,600
Milford, Co. Donegal ...		William Russell	31	1/-	—	—	1,500
Mountbellew	284	Mountbellew Co-op. Agrl. Dairy Society, Ltd.	41	1/-	—	—	5,300 estd.
Moville	937	The Moville Electric Supply Co.	189	8d. & 9d.	—	4d. & 3d	23,150
Pettigo	251	Shaw Bros.	47	8d.	—	4d.	4,563
Portumna	894	The Portumna E. L. & Power Co., Ltd. ...	160	10d. & 1/-	—	7d.	22,690
Ramelton	924	Robert J. Campbell	85	7½d. to 9d.	—	4½d.	11,747
Raphoe	754	Raphoe Electric Lighting Co., Ltd. ...	69	10d.	—	6d.	11,000 estd.
Rathfarnham	657	The Rathfarnham Mfg. Co., Ltd. ...	30	3d. and 2·7d.	3d.	3d. and 2·7d.	28,909
Riverstown, Co. Sligo ...	225	Flanagan Bros.	5	1/2	—	—	250
St. Ann's Hill, Blarney	—	St. Ann's Hill Hydropathic Co., Ltd ...	10	6d. per (Supply to B	unit minimum ungalows in Hy	charge dro Grounds)	2,600
St. Johnston, Co. Donegal	270	Edward J. White	38	10d.	—	—	2,200
Shillelagh	147	The Earl of Fitzwilliam	6	6d. and	450 units for	£11	1,608
Sixmilebridge	323	James O'Flynn & Sons, Ltd.	24	5d.	—	1½d.	59,200
Tuamgraney	101	E. McLysaght, Raheen, Tuamgraney ...	4	1/-	—	—	1,366
Waterville	164	Electricity Supply Co., Ltd. Waterville, Co. Kerry	28	1/-	6d.	6d.	3,147
Windgap	72	Windgap Co-op. Dairy Society, Ltd. ...	9	Fixed yearly rent including Wiring, etc.	—	—	1,400
Woodford	184	Mrs. John Roche	30	10d.	4d.	—	17,600 estd.
Various Districts ...	—	Great Northern Railway Co. (Ireland) ...	78	1d. to 1/-	1d. & 1·125d.	1·125d.	25,090

Total No. of undertakings 74; Total Population 41,512; Total No. of Consumers 7,102; Units sold 1,731,464 approximately.

UNITS GENERATED FROM APRIL 1ST, 1928, TO 31ST MARCH, 1940.

APPENDIX XII.



FINANCIAL YEARS ENDING 31ST MARCH.

To follow page 39.

ACCOUNTS

No. 1. INSTALLATIONS TRADING ACCOUNT FOR

Dr.

					Year 1938/39
			£	s. d.	£
To Cost value of work for which credit had not been taken at 31st March, 1939			20,080	10 0	23,468
,, Cost of installation work carried out during the year ...			53,922	15 0	49,599
,, Gross profit, carried down			13,298	6 0	13,641
			£87,301	11 0	£86,708
	£	s. d.			
To Salaries, wages and state insurance ...	6,573	7 2			
,, Travelling expenses	1,115	9 4			
,, Rents and rates	157	5 8			
,, Sundry expenses	480	11 9			
,, General overhead expenses and interest, as apportioned	3,798	15 5			
			12,125	9 4	11,758
,, Balance, carried to Net Revenue Account			1,172	16 8	1,883
			£13,298	6 0	£13,641

No. 2. MERCHANDISE TRADING ACCOUNT FOR

Dr.

					Year 1938/39.
			£	s. d.	£
To Cost value of transactions for which credit had not been taken at 31st March, 1939			34,831	6 5	32,465
,, Cost of goods issued as sales			68,773	16 8	61,676
,, Sundry costs in connection with sales			7,055	1 7	5,979
,, Gross profit, carried down			14,957	5 7	14,285
			£125,617	10 3	£114,405
	£	s. d.			
To Salaries, wages, commission and state insurance	4,216	13 10			
,, Travelling expenses	444	6 5			
,, Rents and rates	371	18 0			
,, Sundry expenses	639	8 8			
,, General overhead expenses and interest, as apportioned	4,972	9 1			
			10,644	16 0	9,653
,, Balance, carried to Net Revenue Account			5,423	15 0	5,653
			£16,068	11 0	£15,306

THE YEAR ENDED 31st MARCH, 1940.

Cr.

	£ s. d.	Year 1938/39 £
By Credit taken for contracts completed and charged ...	64,623 9 4	66,628
„ Cost value of work for which credit has not yet been taken	22,678 1 8	20,080
	£87,301 11 0	£86,708
By Gross Profit, brought down	13,298 6 0	13,641
	£13,298 6 0	£13,641

THE YEAR ENDED 31st MARCH, 1940.

Cr.

	£ s. d.	Year 1938/39. £
By Credit taken for sales	87,436 12 9	79,574
„ Cost value of transactions for which credit has not yet been taken	38,180 17 6	34,831
	£125,617 10 3	£114,405
By Gross profit, brought down	14,957 5 7	14,285
„ Hireage receipts on hire-purchase appliances	1,111 5 5	1,021
	£16,068 11 0	£15,306

No. 3.
Dr.

ELECTRICITY REVENUE ACCOUNT FOR

	£ s. d.	£ s. d.	Year 1938/39 £
To GENERATION :			
Operating expenses	45,252 18 11		
Fuel	175,424 8 2		
Maintenance and repair	41,055 18 6		
Transfer to depreciation reserve ...	64,000 0 0		
Supervision and local administration	20,958 2 5		
		346,691 8 0	261,000
,, TRANSMISSION :			
Operating expenses	13,225 1 1		
Maintenance and repair	25,480 18 10		
Transfer to depreciation reserve ...	59,000 0 0		
Supervision and local administration	19,136 10 5		
		116,842 10 4	102,560
,, DISTRIBUTION :			
Operating expenses	138,659 17 0		
Maintenance and repair	81,540 2 3		
Transfer to depreciation reserve ...	116,000 0 0		
Supervision and local administration	182,276 10 6		
		518,476 9 9	497,533
,, GENERAL ADMINISTRATION :			
Board, Secretariat and Consultants ...	25,792 15 0		
Engineering	34,714 8 11		
Accounting	35,987 7 10		
Audit fee	1,000 0 0		
Sales promotion and publicity ...	38,503 14 0		
General expenses	30,900 11 8		
Transfer to depreciation reserve— general assets	7,000 0 0		
	173,898 17 5		
Less : apportionment charged to other accounts and to capital works ...	11,675 0 0		
		162,223 17 5	159,524
,, Provision for bad debts		4,900 0 0	3,700
,, Depreciation of stocks of material		2,909 9 11	4,832
,, Balance, carried to Profit and Loss Account ...		806,447 9 10	885,966
		£1,958,491 5 3	£1,915,115

THE YEAR ENDED 31st MARCH, 1940.

Cr.

	£ s. d.	£ s. d.	Year 1938/39 £
By Charges for electricity, etc.:			
General consumers ...	1,809,503 1 9		
Public lighting	... 85,849 13 10		
Meter and other rents ...	... 50,956 16 11		
		1,946,309 12 6	1,900,563
,, Miscellaneous revenue	... ...	12,181 12 9	14,552
		£1,958,491 5 3	£1,915,115

No. 4.
Dr.

ELECTRICITY PROFIT AND LOSS ACCOUNT

	£ s. d.	£ s. d.	Year 1938/39. £
To Interest payable to the Minister for Finance	623,787 15 9		
,, Interest on loans and loan-stocks of acquired undertakings	14,043 7 10		
,, Other interest	90,787 13 9		
	728,618 17 4		
Less : apportionment charged to other accounts and to capital works ...	45,301 0 0		
		683,317 17 4	627,353
,, Loan-stock management charges		180 11 10	214
,, Gross contributions to loan-stock sinking funds of acquired undertakings		13,863 6 10	14,753
,, Reserves, being the amount of capital repaid or provided for repayment in respect of advances from the Minister for Finance	57,105 0 0		
acquired undertakings	6,005 6 1		
		63,110 6 1	23,968
,, Premium at which loan-stock was redeemed		367 18 1	678
,, Balance, carried down		54,231 5 10	226,810
		£815,071 6 0	£893,776
To Annuity in respect of moiety of advance by the Minister for Finance under the provisions of the Cork Tramways (Employees' Compensation) Act, 1933		1,589 0 6	1,589
,, Amount transferred to reserve for depreciation of physical capital assets		—	100,000
,, Amount contributed from Revenue towards expenditure on the design of new capital works		5,046 1 2	—
,, Balance, carried to Net Revenue Account		47,596 4 2	125,221
		54,231 5 10	£226,810

No. 4A.
Dr.

ELECTRICITY NET REVENUE ACCOUNT

	£ s. d.	Year 1938/39. £
To Contingencies Reserve	54,192 15 10	132,757
	£54,192 15 10	£132,757

FOR THE YEAR ENDED 31st MARCH, 1940.

Cr.

	£ s. d.	Year 1938/39. £
By Balance transferred from Revenue Account	806,447 9 10	885,966
„ Loan-stock sinking funds' investment income	4,305 15 8	4,289
„ Discount at which loan-stock was redeemed	612 13 7	86
„ Interest receivable	3,705 6 11	3,435
	£815,071 6 0	£893,776
By Balance, brought down	54,231 5 10	226,810
	£54,231 5 10	£226,810

FOR THE YEAR ENDED 31st MARCH, 1940.

Cr.

	£ s. d.	£ s. d.	Year 1938/39. £
By Balance transferred from Profit and Loss Account		47,596 4 2	125,221
„ Installations trading profit	1,172 16 8		
„ Merchandise trading profit	5,423 15 0		
		6,596 11 8	7,536
		£54,192 15 10	£132,757

No. 5. ELECTRICITY CAPITAL ACCOUNT FOR

Dr.

	Total to 31st March, 1939 less— amounts written off	Expenditure during year to 31st March, 1940 less— amounts written off	Total to 31st March, 1940 less— amounts written off
	£ s. d.	£ s. d.	£ s. d.
To GENERATION : physical assets ...	5,847,351 15 8	340,102 18 2	6,187,454 13 10
„ TRANSMISSION : physical assets ...	2,712,221 18 5	487,791 0 5	3,200,012 18 10
„ DISTRIBUTION : (*a*) physical assets ...	3,491,136 15 9	208,479 16 11	3,699,616 12 8
(*b*) other capital expenditure	506,335 13 7	48,091 15 4	554,427 8 11
„ GENERAL : (*a*) physical assets ...	249,076 15 3	27,653 12 6	276,730 7 9
(*b*) other capital expenditure	336,507 16 8	(—) 3,631 4 0	332,876 12 8
	£13,142,630 15 4	£1,108,487 19 4	14,251,118 14 8
„ NON-CLASSIFIED EXPENDITURE : New works in progress			956,776 18 11
		TOTAL ...	15,207,895 13 7
			£15,207,895 13 7

THE YEAR ENDED 31st MARCH, 1940.

Cr.

	Total Receipts to 31st March, 1939 less— redemptions	Receipts during year to 31st March, 1940 less— redemptions	Total Receipts to 31st March, 1940 less— redemptions
	£ s. d.	£ s. d.	£ s. d.
By Local Authority Undertakings :			
Loans and loan-stocks	194,315 7 1	(—) 23,516 11 9	170,798 15 4
Liability under section 39 (7) of the Electricity (Supply) Act, 1927 :	2,729 9 7	(—) 756 3 1	1,973 6 6
„ Minister for Finance :			
Advances under the Electricity (Supply) Acts, the Liffey Reservoir Act and in respect of advances to the Shannon Power Development Fund as determined under section 15 of the Electricity (Supply) Act, 1927 ...	12,138,141 4 0	659,404 9 9	12,797,545 13 9
Total ...	£12,335,186 0 8	£635,131 14 11	12,970,317 15 7
By Balance			2,237,577 18 0
			£15,207,895 13 7

No. 6.
Dr.

ELECTRICITY BALANCE SHEET

LIABILITIES.	£ s. d.	£ s. d.	31/3/1939. £
To Receipts, as per Capital Account		12,970,317 15 7	12,335,186
„ Sundry Creditors		444,523 17 8	380,161
„ Working Capital Loan of an acquired undertaking...		9,600 0 0	12,000
„ Amount reserved in respect of sinking funds for loan-stocks of acquired undertakings		28,208 5 9	32,599
„ Amounts reserved in respect of capital loans repaid, capital receipts non-repayable and sale of assets, together with additional amounts reserved for depreciation and retirement of assets, less assets retired		2,587,468 10 8	2,195,622
„ Capital Assets Adjustment Reserve representing surplus arising from re-valuation ...		269,525 4 4	187,338
„ Reserves : Amount provided by acquired undertakings	77,897 14 4		
Other reserves and provisions	204,096 19 10		
		281,994 14 2	226,566
		£16,591,638 8 2	£15,369,472

AS AT 31st MARCH, 1940.

Cr.

ASSETS.	£ s. d.	31/3/1939. £
By CAPITAL ASSETS, as per CAPITAL ACCOUNT	15,207,895 13 7	14,062,735
,, STOCKS ON HAND OR IN TRANSIT	671,910 2 0	645,513
,, COST VALUE OF INSTALLATIONS WORK AND SALES FOR WHICH CREDIT HAS NOT BEEN TAKEN	80,663 19 4	72,851
,, SUNDRY DEBTORS, after providing for bad and doubtful debts	454,407 4 6	400,037
,, SHANNON FISHERIES, temporary advances	47,059 18 11	57,878
,, CASH IN HAND OR WITH BANKS	101,493 4 1	97,859
,, SINKING FUNDS (held by local authorities) for loan-stocks :		
Investments (at cost) ... £19,878 18 10		
Cash not invested ... 8,329 6 11		
	28,208 5 9	32,599
	£16,591,638 8 2	£15,369,472

No. 7.
Dr.

SHANNON FISHERIES TRADING ACCOUNT

	£ s. d.	Year 1938/39 £
To Operation, maintenance and repair of fisheries... ...	5,408 12 2	6,636
,, Fishery rates	370 2 4	366
,, General management and overhead expenses	910 1 3	865
	£6,688 15 9	£7,867

No. 8.
Dr.

SHANNON FISHERIES PROFIT AND LOSS ACCOUNT

	£	s.	d.	£ s. d.	Year 1938/39. £
To Balance brought from Trading Account				2,780 9 6	4,817
,, Interest:					
Payable to the Minister for Finance	4,506	3	8		
Apportioned in respect of temporary advances from Electricity Funds	800	0	0		
				5,306 3 8	3,750
				£8,086 13 2	£8,567
To Balance, brought down				8,086 13 2	8,567
,, Balance brought forward from last year's account ...				19,099 1 1	10,532
				£27,185 14 3	£19,099
To Balance, brought down				£27,185 14 3	

FOR THE YEAR ENDED 31st MARCH, 1940.

Cr.

	£ s. d.	Year 1938/39 £
By Sales of fish and letting of fishing rights	3,908 6 3	3,050
,, Balance, carried to Profit and Loss Account	2,780 9 6	4,817
	£6,688 15 9	£7,867

FOR THE YEAR ENDED 31st MARCH, 1940.

Cr.

	£ s. d.	Year 1938/39. £
By Balance, carried down	8,086 13 2	8,567
	£8,086 13 2	£8,567
By Balance, carried down	27,185 14 3	19,099
	£27,185 14 3	£19,099

No. 9.
Dr.

SHANNON FISHERIES CAPITAL ACCOUNT

	Total to 31st March, 1939	Expenditure during year to 31st March, 1940	Total to 31st March, 1940
	£ s. d.	£ s. d.	£ s. d.
To Fishery rights and fisheries ...	83,326 17 10	4,377 4 4	87,704 2 2
,, Works to preserve fisheries ...	—	884 16 9	884 16 9
,, Other capital expenditure ...	39 4 5	—	39 4 5
	£83,366 2 3	£5,262 1 1	88,628 3 4
,, Non-classified expenditure : New works in progress ...			30,784 4 4
			£119,412 7 8

No. 10.
Dr.

SHANNON FISHERIES BALANCE SHEET

LIABILITIES		31/3/1939
	£ s. d.	£
To Receipts, as per Capital Acccount	100,000 0 0	60,000
,, Electricity Funds, temporary advances	47,059 18 11	57,878
,, Temporary bank overdraft	—	16
	£147,059 18 11	£117,894

FOR THE YEAR ENDED 31st MARCH, 1940.

Cr.

	Total Receipts to 31st March, 1939	Receipts during year to 31st March, 1940	Total Receipts to 31st March, 1940
	£ s. d.	£ s. d.	£ s. d.
By Minister for Finance :			
Advances under the Shannon Fisheries Act, 1935	60,000 0 0	40,000 0 0	100,000 0 0
„ Balance			19,412 7 8
			£119,412 7 8

AS AT 31st MARCH, 1940.

Cr.

ASSETS.			31/3/1939
	£ s. d.		£
By Capital assets, as per Capital Account	119,412 7 8		98,392
„ Stock of material	382 6 11		397
„ Cash in hand and with Bank	79 10 1		6
„ Deficiency, as per Profit and Loss Account	27,185 14 3		19,099
	£147,059 18 11		£117,894

			Total Receipts to 31st March, 1940
			£ s. d.
UNDER ELECTRICITY ACTS.			
Local Authority Undertakings :			
Loans and loan-stocks			740,955 7 5
Liability under Section 39 (7) of the Electricity (Supply) Act, 1927			15,065 16 10
Minister for Finance :			
Advances—			
Under the Electricity (Supply) Act, 1927—			
Section 12 (2)	£156,000 0 0		
Section 12 (3)	1,903,688 6 1		
Under the Electricity (Supply) (Amendment) Act, 1931, as extended by the Electricity (Supply) (Amendment) Acts, 1932 and 1934 and the Liffey Reservoir Act, 1936	4,784,881 12 3		
To the Shannon Power Development Fund applicable, as determined under section 15 of the Electricity (Supply) Act, 1927, to the Shannon Works handed over	6,010,080 15 5		12,854,650 13 9
			£13,610,671 18 0
UNDER SHANNON FISHERIES ACTS.			
Minister for Finance :			
Advances—			
Under the Shannon Fisheries Act, 1935			100,000 0 0
			£13,710,671 18 0

REDEMPTION THEREOF TO THE 31st MARCH, 1940.

Redeemed			Balance of Capital Receipts Outstanding at 31st March, 1940
Total to 31st March, 1939	During year to 31st March, 1940	Total to 31st March, 1940	
£ s. d.	£ s. d.	£ s. d.	£ s. d.
546,640 0 4	23,516 11 9	570,156 12 1	170,798 15 4
12,336 7 3	756 3 1	13,092 10 4	1,973 6 6
—	57,105 0 0	57,105 0 0	12,797,545 13 9
£558,976 7 7	£81,377 14 10	£640,354 2 5	£12,970,317 15 7
—	—	—	100,000 0 0
£558,976 7 7	£81,377 14 10	£640,354 2 5	£13,070,317 15 7

No. 12.
Dr.

GENERAL BALANCE SHEET

LIABILITIES.	£	s.	d.	£	s.	d.	31/3/1939 £
To Receipts:							
per Electricity Capital Account	12,970,317	15	7				
per Shannon Fisheries Capital Account	100,000	0	0				
				13,070,317	15	7	12,395,186
„ Sundry Creditors				444,523	17	8	380,161
„ Working Capital Loan of an acquired undertaking				9,600	0	0	12,000
„ Amount reserved in respect of sinking funds for loan-stocks of acquired undertakings				28,208	5	9	32,599
„ Amounts reserved in respect of capital loans repaid, capital receipts non-repayable and sale of assets, together with additional amounts reserved for depreciation and retirement of assets, less assets retired				2,587,468	10	8	2,195,622
„ Capital Assets Adjustment Reserve representing surplus arising from re-valuation ...				269,525	4	4	187,338
„ Reserves: Amount provided by acquired undertakings...	77,897	14	4				
Other reserves and provisions	204,096	19	10				
				281,994	14	2	226,566
				£16,691,638	8	2	£15,429,472

R. F. BROWNE, *Chairman.*

PATRICK J. DEMPSEY, *Secretary.*

AS AT 31st MARCH, 1940.

Cr.

ASSETS.	£ s. d.	£ s. d.	31/3/1939 £
By Capital Assets:			
per Electricity Capital Account	15,207,895 13 7		
per Shannon Fisheries Capital Account	119,412 7 8		
		15,327,308 1 3	14,161,127
„ Stocks on Hand or in Transit		672,292 8 11	645,910
„ Cost Value of Installations Work and Sales for which Credit has not been taken ...		80,663 19 4	72,851
„ Sundry Debtors, after providing for bad and doubtful debts		454,407 4 6	400,037
„ Cash in Hand or with Banks		101,572 14 2	97,849
„ Sinking Funds (held by local authorities) for loan-stocks	£ s. d.		
Investments (at cost) ...	19,878 18 10		
Cash not invested ...	8,329 6 11		
		28,208 5 9	32,599
„ Deficiency, as per Shannon Fisheries Profit and Loss Account		27,185 14 3	19,099
		£16,691,638 8 2	£15,429,472

F. WECKLER, *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 undermentioned qualifications, that the Balance Sheet as at the 31st March, 1940, 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.

Depreciation has been charged in the Revenue Account in respect of the year ended 31st March, 1940, on the Capital Assets referred to as physical assets in the Capital Account, including those acquired from Local Authorities, on the basis of a re-classification and re-valuation made by the Board's Officials and at rates approved by the Board governed by the life of the Assets as estimated by the Board's Officials. Depreciation of the physical assets acquired from Local Authorities has been treated, up to the 31st March, 1937, as having been provided for in the amounts charged in respect of the replacement of loans and loan-stocks of the undertakings acquired.

Overhead expenses 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 Revenue Account has been relieved of a proportion of supervision and administration expenses which has been charged to the Installations Trading Account, the Merchandise Trading Account, the Shannon Fisheries Trading Account, and to capital expenditure on new works.

(*b*) The Profit and Loss Account has been relieved of a proportion of the interest chargeable which has been transferred to the Installations Trading Account, the Merchandise Trading Account, the Shannon Fisheries Profit and Loss Account, and to capital expenditure on new works.

(*c*) Credit has been given to the Merchandise Trading Account for a sum representing a proportion of the expenses regarded as relating to the sales of electricity, and this amount has been charged to Revenue Account.

(Signed) KENNEDY, CROWLEY & CO.,
Auditors.

4 AND 5 WESTMORELAND STREET,
DUBLIN, 8th *July*, 1940.

Alex. Thom & Co., Ltd