NINETEENTH ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

(Including Report on Shannon Fisheries.)

DUBLIN
1945-46

NINETEENTH

ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

Year ended 31st March, 1946.

(Including Report on the Shannon Fisheries.)

ESB
MARKETING BUREAU
CLASSMARK
ACCESSION NUMBER 1HA1
LOCATION Room 421

ESB
MARKETING BUREAU
REFERENCE ONLY
DO NOT REMOVE

(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.)

NINETEENTH

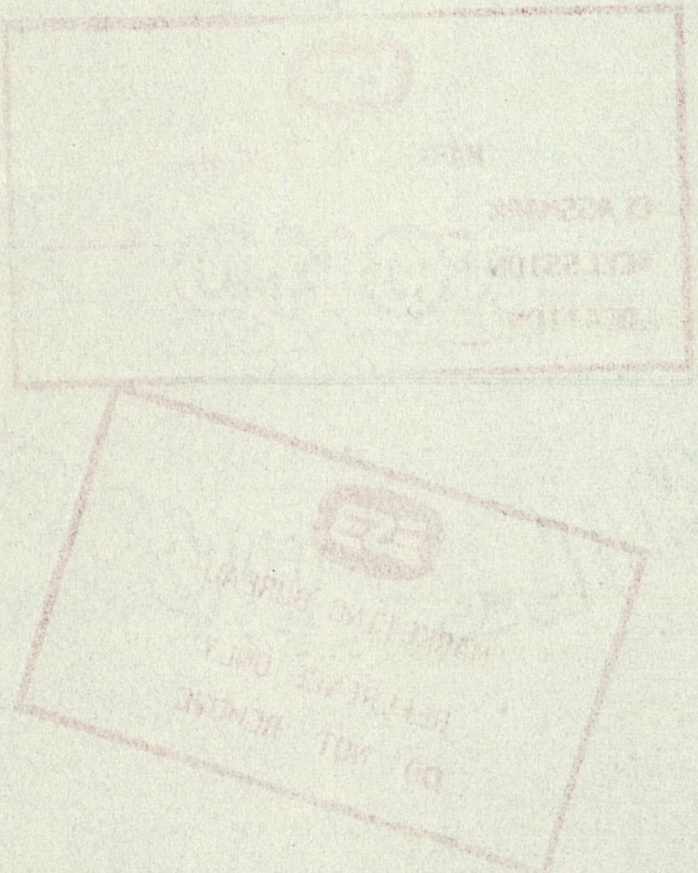
ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

Year ended 31st March 1946.

(Including Report on the Shannon Fisheries)



ELECTRICITY SUPPLY BOARD.

Report and Accounts

YEAR ENDED 31st MARCH, 1946.

(Including Report on the Shannon Fisheries.)

CONTENTS.

REPORT—	Page
Finance and Accounts	5
Sale of Electricity and Number of Consumers	7
Analysis of Units Sold	8
Restrictions on Electricity Supply	9
Tariffs	9
Undertakings Acquired	9
Sales of Appliances	9
Consumers' Installation Department	9
Rural Electrification	9
Generation	10
Generating Stations	11
Water Storage and River Control	12
Transmission and Distribution Systems	13
Water Power Resources and Hydrometric Survey	14
Permitted Undertakings	14
Superannuation Schemes	14
Tribunal to Determine Disputes	15
Staff	15
Shannon Fisheries	16
APPENDICES	20
ACCOUNTS	45

CONTENTS.

REPORT— Page

Finance and Accounts 5

Sale of Electricity and Number of Consumers 7

Analysis of Units Sold 8

Restrictions on Electricity Supply 9

Tariffs 9

Undertakings Acquired 9

Sales of Appliances 9

Consumers' Installation Department 9

Rural Electrification 9

Generation 10

Generating Stations 11

Water Storage and Flow Control 13

Transmission and Distribution Systems 13

Water Power Resources and Hydrometric Survey 14

Permitted Undertakings 14

Superannuation Schemes 14

Terminal to Determine Disputes 15

Staff 15

Annual Expenses 16

APPENDICES 20

ACCOUNTS 42

ELECTRICITY SUPPLY BOARD.

Report and Accounts

YEAR ENDED 31st MARCH 1948.

(Including Report on the Annual Expenses)

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, 1946.

The surplus carried down on the Profit and Loss Account is £145,287 compared with a deficiency of £324,353 in the previous year. The high output of 482 million units generated by the Board's stations during the year was rendered possible by the relatively favourable water conditions which prevailed. Of this total 319 million units were produced from the hydro-plants. The production of the balance of 163 million units from the steam plant was attained with considerable difficulty, particularly because of the very inferior quality of the coal. The consumption of coal per unit of electricity generated averaged 2·3 lbs. as compared with an average of 1·5 lbs. in the year 1939. This factor, taken in conjunction with the price of coal, rendered inevitable abnormally high costs for the output from the steam plant.

The following are the summarised figures of income and expenditure for the year :—

	Year ended 31st March, 1946.		Year ended 31st March, 1945.
	£		£
Gross Revenue	3,075,938		2,477,900
Working expenditure (including depreciation)	1,947,696		1,850,458
Balance carried to Profit and Loss Account	1,128,242		627,442
Interest, repayment of advances and discharge of capital liabilities acquired with local authority undertakings	982,955		951,795
Surplus	145,287	Deficit	324,353

Having credited the surplus for the year, the accumulated deficiency on the Net Revenue Account was reduced to £387,522.

Electricity Sales amounted to 379,094,294 units as compared with 319,010,297 units in the preceding year (during which severe rationing was in force and consumption was thereby reduced). The revenue from sales was £3,061,518 as compared with £2,458,411. The revenue was higher by reason of the increased sales and because of the introduction during the year of a further increase in rates of charge.

The depreciation accrued during the year amounted to £300,000 and has been charged in the Revenue Account as in previous years. Including this sum, the total amount made available up to 31st March, 1946, towards replacement of wasting capital assets was £5,239,001.

Capital repayments to the Minister for Finance debited to the Profit and Loss Account amounted to £84,757, and the repayment of capital liabilities assumed from local authorities to £13,049. At the 31st March, 1946, the total of the capital redeemed by repayments to the Minister for Finance was £497,113, and of the liabilities assumed from local authorities £701,962 had been repaid.

The gross amount of capital invested in additional plant placed in commission during the year was £460,169 as compared with £980,616 in the preceding year.

This expenditure comprises the following :—

	£
Generation	212,697
Transmission	94,380
Distribution	127,265
Equipment, Transport, etc.	25,827
	£460,169

The aggregate capital expenditure at 31st March, 1946, was £18,611,099.

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 seventeen years are shown in the following table :—

Year ended on 31st March	Units Generated (and purchased)	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
1941 ...	435,864,400	345,230,808	2,071,888	1·14	1·44	183,747
1942 ...	450,411,800	357,252,304	2,182,970	1·16	1·47	200,419
1943 ...	414,363,000	328,052,276	2,223,708	1·29	1·63	210,475
1944 ...	442,892,900	346,938,333	2,426,082	1·31	1·68	222,013
1945 ...	406,273,400	319,010,297	2,458,411	1·45	1·85	228,008
1946 ...	483,625,900	379,094,294	3,061,518	1·52	1·94	237,136

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.

ANALYSIS OF UNITS SOLD.

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

Class of Supply	Units Sold		Increase	Percentage Increase
	Year ended 31st March, 1946	Year ended 31st March, 1945		
Domestic	140,764,758	116,342,524	24,422,234	21·0
General Lighting	28,352,957	22,023,397	6,329,560	28·7
General Heating, Cooking and Water Heating ...	39,638,742	36,338,346	3,300,396	9·1
Motive Power	150,047,101	128,075,459	21,971,642	17·2
Public Lighting	9,311,523	8,141,638	1,169,885	14·4
Traction	7,208,960	4,464,851	2,744,109	61·5
Miscellaneous	3,770,253	3,624,082	146,171	4·0
Totals ...	379,094,294	319,010,297	60,083,997	18·8

In considering the figures of percentage increase it should be recalled that severe rationing was in force in the year ended 31st March, 1945, and the consumption for that year was in consequence artificially low. Domestic consumption, for instance, in the year under review is still below the previous highest figure of 143 millions reached in the year ended the 31st March, 1942. The following table shows the comparison with the previous highest consumption recorded under each category, and it will be noted that motive power consumption alone shows a major increase :—

Class of Supply	Units Sold		
	Year ended 31st March, 1946	Year ended 31st March, 1942	Year ended 31st March, 1941
Domestic	140,764,758	143,453,807	112,550,020
General Lighting	28,352,957	26,983,170	30,042,363
General Heating, Cooking and Water Heating	39,638,742	38,530,663	34,687,835
Motive Power	150,047,101	128,125,232	138,895,475
Public Lighting	9,311,523	8,373,688	15,043,968
Traction	7,208,960	6,314,520	7,141,525
Miscellaneous	3,770,253	5,471,224	6,869,622
Totals	379,094,294	357,252,304	345,230,808

RESTRICTIONS ON ELECTRICITY SUPPLY.

The modified restrictions on electricity supply in force at the 31st March, 1945, were continued, without alteration, during the year under review.

TARIFFS.

Following negotiations with the Department of Supplies, the Board was permitted to increase, as from the beginning of the June/July, 1945, accounting period, the tariffs which had been operative since 1943. Details are shown in Appendix II.

UNDERTAKINGS ACQUIRED.

In connection with the hydro-electric development of the River Erne, the electricity supply undertakings at Ballyshannon and Bundoran were acquired on the 1st January, 1946.

SALES OF APPLIANCES.

Sales of appliances amounted to £41,422 as compared with £24,778 for the previous year. The rate of gross profit on sales was 23·9%. The Merchandise Trading Account showed a profit of £2,486, having been charged with overhead expenses and interest on working capital.

CONSUMERS' INSTALLATION DEPARTMENT.

The credit taken for contracts completed and invoiced for work carried out by the Department amounted to £72,043 as compared with £62,988 for the previous year. The rate of gross profit was 26·6%. Having debited to the Installations Trading Account overhead expenses and interest on working capital, there was a net profit of £4,244.

RURAL ELECTRIFICATION.

During the year the outline of the organisation for carrying out the Rural Electrification scheme was drawn up and the nucleus of the staff appointed. Efforts made to obtain the materials required were generally successful except in the case of poles. Sufficient wooden poles were, however, procured to enable arrangements to be made to start the scheme on a small scale and the first area for development was selected—about twenty-five square miles in County Dublin to the north of Finglas.

GENERATION.

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

Year ended on 31st March	Station	Generation in kWh.	Maximum daily output kWh.	Maximum load kWh.
1946 ...	Ardnacrusha ...	292,862,000		
	Liffey	26,273,200		
	Pigeon House ...	162,787,000		
	Cork	293,500		
	Total ...	482,215,700	2,073,000	138,500
1945 ...	Ardnacrusha ...	267,399,400		
	Liffey	14,935,200		
	Pigeon House ...	122,577,800		
	Cork	19,700		
	Total ...	404,932,100	1,957,900	123,700
Increase during year ended 31st March, 1946		77,283,600	115,100	14,800

The total output for all stations showed an increase of 19·1%. For the year, the average load was 55,100 kW., and the load factor, on the basis of units generated, was 39·7% compared with 37·4% last year. The load factor was again influenced by the continuation of " Summer Time " through the winter, and also by the rationing restrictions, particularly during the summer months.

A supply of 1,410,000 units was purchased in bulk at Lifford from the Electricity Board for Northern Ireland.

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

Generation load duration, and integrated load duration, curves	Appendix III.
Distribution at high tension of units generated	Appendix IV.
Outputs of all stations	Appendix V.
Typical daily generation load curves	Appendix VI.
Capacity of the Board's generating stations	Appendix VII.
Weekly summary of operation conditions	Appendix VIII.
Graph showing annual output from 1st April, 1928, to 31st March, 1946	Appendix XIII.

GENERATING STATIONS.

(a) **Portarlington :**

Contracts were placed for the supply and erection of a second 12,500 kW.turbo-alternator set, and a third boiler unit of 125,000 lbs. steam per hour, (normal load).

Contracts were placed also for two 20,000 kVA 10/110kV, two 2,000 kVA 10 kV/380 volt transformers, and for the 10 kV and L.T. switchgear and control gear.

Tenders were invited for the civil construction works for this station.

(b) **Pigeon House :**

The installation of the two additional boiler units, each of 100,000 lbs. of steam per hour, (normal load), was in progress.

(c) **Liffey :**

The work on erection of the second main generating set in Pollaphuca station proceeded, and is scheduled for completion during 1946.

Both the Pollaphuca and Golden Falls stations continued in operation with improvised switch and control gear.

(d) **Leixlip :**

The project for the hydro-electric development of the lower River Liffey at Leixlip provides for the utilisation of a head of about 60 feet by the construction, some distance below the Salmon Leap Falls, of a dam and a power station with an installed plant capacity of about 4,000 kW. The Pollaphuca reservoir serves to regulate the seasonal run-off from the head waters of the River Liffey from whence most of the floods come, and the development at Leixlip is complementary to the existing scheme at Pollaphuca. The average annual useful output of energy from the Leixlip project is estimated at about 10 million units. The total output of the hydro-electric developments on the River Liffey will consequently reach about 40 million units per annum. The execution of the scheme was approved by the Minister for Industry and Commerce under Order dated 19th June, 1945, in accordance with the Electricity (Supply) (Amendment) Act, 1945.

Contracts were placed for the main construction works, including the dam, the power station and the tail race, and for the supply and erection of a 4,000 kW generating set together with transformers and switchgear. The work on site was about to be commenced at the end of the year.

(e) **Lower River Erne :**

The proposals for the hydro-electric development of the lower River Erne visualise the development of the available fall in two steps in the existing river bed. The first or upper step involves the construction of a dam and power station at Cliff House, about four miles upstream from Ballyshannon. The dam and power station forming the second or lower step will be located at Cathaleen's Falls, about three-quarters of a mile above Ballyshannon. A tail race channel will be excavated in the existing river bed from the lower power station to the tidal estuary below Assaroe Falls. The raising of the existing river level by the dam at Cathaleen's Falls will result in the formation of a storage basin which will serve to regulate the daily water supply to the lower station.

The Cliff power station will have an installed capacity of about 10,000 kW at an average working head of about 27 feet under the partial development, increasing to about 20,000 kW, at an average working head of about 37 feet under the full development. Cathaleen's Falls power station will have an installed capacity of about 40,000 kW, with room for extension to 60,000 kW under the full development, at an average working head of about 97 feet.

The average useful output of energy at the appropriate stage in the system load development is estimated at not less than 160 million units per annum under partial, and 200 million units per annum under full, development.

The execution of the partial development scheme, which is designed to be suitable for extension to the full development, was approved by the Minister for Industry and Commerce under Order dated 27th April, 1945.

The erection of the cofferdam for the first section of the tail race at Ballyshannon was commenced by direct labour in May, 1945, and completed during the year. A contract was placed in June, 1945, for the construction of the new road bridge to span the tail race at Ballyshannon. By the end of the year the bridge cofferdam was nearing completion, a temporary bridge had been erected and the old bridge was in course of demolition. A contract for the excavation of the tail race was placed in October, 1945, and work on the site was about to start at the end of the year.

A contract was placed in January, 1946, for the remaining main constructional works including the dam and power station at Cathaleen's Falls, the dam and power station at Cliff and the necessary road diversions around the site of the Cathaleen's Falls storage basin. By the end of the year preparations on the site had been well advanced and the works were about to be commenced.

WATER STORAGE AND RIVER CONTROL.

RIVER SHANNON :

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

(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 catchment at Killaloe was 170·2 cbm/sec. and was somewhat below the long-term mean. The flows were below average during April, May and November, 1945, and March, 1946. On the whole the distribution of the flow was favourable for power generation. The water used for power generation amounted to 90·5% of the total inflow, excluding river compensation water.

The important hydrometric figures were as follows :—

Total average rainfall in Shannon catchment	...	40·4 inches.
Average inflow to Shannon catchment ...	...	170·2 cbm/sec.
Average water used at Ardnacrusha Power Station	...	144·9 cbm/sec.
Average water used per unit generated ...	...	15·6 cbm.
Average available head at Ardnacrusha Power Station		28·38 m. O.D.
Maximum available head at Ardnacrusha Power Station		30·46 m. O.D.
Minimum available head at Ardnacrusha Power Station		24·43 m. O.D.

(The average inflow to the catchment at Killaloe for the calendar year 1945 was 158·9 cbm/sec.)

RIVER LIFFEY :

The following data in connection with the flow of the Upper Liffey is contained in Appendix X :—

(i) Daily water level of Pollaphuca Reservoir.
(ii) Average daily discharge in river below Golden Falls.
(iii) Draw-off by Dublin Corporation water supply.

The total average inflow to Pollaphuca Reservoir was 7·82 cbm/sec. or 86% of the long term mean of 9·12 cbm/sec.

The draw-off by the Dublin Corporation for the City water supply averaged six million gallons per day (0.33 cbm/sec.) over the year.

The important hydrometric figures were as follows :—

Total average rainfall in Pollaphuca catchment	...	47·8 inches.
Average inflow to Pollaphuca catchment ...	...	7·82 cbm/sec.
Average water used at Pollaphuca station ...	...	6·1 cbm/sec.
Average water used by Dublin Corporation	...	·33 cbm/sec.
Average water used per unit generated (overall)	...	7·6 cbm.

(The total inflow for the calendar year 1945 was 6.29 cbm/sec.)

TRANSMISSION AND DISTRIBUTION SYSTEMS.

The following extensions and additions to the transmission and distribution lines were carried out :—

(1) Low tension overhead mains ...	...	...	...	32·8 miles.
(2) Low tension overhead mains (reconstructed or strengthened) ...	...	...	...	5·6 miles.
(3) Low tension underground mains			...	5·1 miles
(4) 10kV underground cables ...	...	...	...	8·7 miles.
(5) 10kV overhead transmission lines		...	...	51·6 miles.
(6) 38 kV overhead transmission lines		...	...	11·9 miles

Three 38kV transformer stations were placed in commission : at Gracedieu Road, Waterford City, at Shannon Airport, Co. Clare, and at Ballyshannon, Co. Donegal.

One hundred and seventeen 10 kV transformer stations were placed in commission, and twenty-two were retired from service.

The 38kV network was extended to Ballyshannon and to Shannon Airport.

The additional transformer stations which have been placed in commission, and increase in transformer capacity, are shown in Appendix XI.

WATER POWER RESOURCES AND HYDROMETRIC SURVEY.

Work proceeded on the collection of hydrometric data—

(a) on the Shannon and Upper Liffey for river control purposes and

(b) on the River Erne and the Lower Liffey at Leixlip, where projects are now under construction.

Progress was maintained in the collection of data towards the investigation and possible later development of the further water-power resources of the country. Excluding the Erne and the Lower Liffey, fourteen selected rivers have been brought under observation to date.

A complete range of flow measurements has now been completed and the flows computed from time of commencement of the records at five stations, namely, those in the Erne, Lower Liffey, Boyne, Lee and Clady. Progress has been maintained on the taking of flow measurements at the remaining rivers under observation. Sites were selected for two new flow measuring stations on the River Lee and one on the River Flesk.

PERMITTED UNDERTAKINGS.

At the 31st March, 1946, there were eighty-three supply undertakers operating under permits from the Board. During the year three permits lapsed as a result of the acquisition of the undertakings by the Board ; four permits were not renewed owing to the cessation of supply and three new permits were issued. Particulars of all permitted undertakings, except where the number of consumers is three or under, are contained in Appendix XII.

SUPERANNUATION SCHEMES.

At the end of the year the number of contributing members in the General Employees Superannuation Scheme was 885, and in the Manual Workers Superannuation Scheme, 1,230. Seventeen members were in receipt of pensions from the funds and the personal representatives of three deceased members were in receipt of the balances of the pensions payable for the guaranteed period of five years from the date of the members' retirement.

A total sum of £276,500 has been invested by the Trustees of the Superannuation Funds in loans to the Board under section 8 of the Electricity Supply Board (Superannuation) Act, 1942.

TRIBUNAL TO DETERMINE DISPUTES.

The Tribunal has sent to the Board a Report of Proceedings in the year ended 31st March, 1946, and for record purposes this report has been reproduced in Appendix XIV.

STAFF.

The strength of the Board's regular staff at the 31st March, 1946, was 2,469, including 39 with the Defence Forces and seconded to Government Departments.

The Board again desires to express its appreciation of the capable and willing manner in which the members of its staff performed 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, 1946.

REPORT

ON THE

SHANNON FISHERIES.

60-62 UPPER MOUNT STREET,
DUBLIN.

TO THE MINISTER FOR INDUSTRY AND COMMERCE.

In accordance with Sections 17 and 18 of the Shannon Fisheries Act, 1935, the Board presents the Annual Report and Accounts for the year ended 31st March, 1946.

The proceeds from the sale of fish, including eels, and the letting of fishing rights amounted to £8,518 as compared with £15,741 in the previous year. This resulted in a deficiency of £13,261 on the Profit and Loss Account after charging interest and sinking fund on the capital invested in the fisheries and making an allowance for depreciation. The deficiency in the previous year was £5,440.

SALMON FISHERIES.

There was a marked decline in the run of salmon and grilse. This trend has been experienced during the past three seasons. In many of the rivers in this country, and also in rivers in England and Scotland, somewhat similar conditions have obtained. On the other hand, the smolt migration during the year was the greatest since the construction of the hydro-electric scheme and may justify the expectation that the stock will increase in the near future.

The statistical records of the run of salmon and grilse at the Thomond weir show the following figures :—

	Year ended 31st March, 1946.	Year ended 31st March, 1945.
April	533	1,067
May	775	1,236
June	3,683	7,315
July	977	1,324
—	—	—
January	8	—
February	13	13
March	484	366

The run of salmon at the Thomond weir was 14% below that of the previous year. The average weight of salmon was 12·3 lbs. as compared with 12 lbs. in the previous year. At the stake weirs the average weight fell from 12 lbs. to 10·8 lbs.

The run of grilse decreased from 9,224 to 4,677, a drop of 49%. The average weight of grilse was 5·7 lbs. at the Thomond weir and 5·3 lbs. in the stake weirs.

EEL FISHERIES.

The weights of eels taken at the Athlone, Castleconnell, and Killaloe weirs for the season were the lowest yet recorded.

The following figures show the comparative weights of eels taken during the present and previous seasons :—

	Year ended 31st March, 1946.	Year ended 31st March, 1945.
Athlone	2,688 lbs.	11,508 lbs.
Castleconnell	359 „	4,546 „
Killaloe	10,405 „	15,514 „

The proceeds from the sale of eels amounted to £4,369 as compared with £8,319 in the previous year. The price obtained averaged 6s. 6d. per lb. as compared with 5s. 3d. per lb. in the previous season.

The Board has in previous reports made reference to the large quantities of immature eels exported from the upper reaches of the Shannon. Intensive long-line fishing was encouraged by the very high price which eels were realising during the war years, and the decrease in the catch at the Board's weirs is mainly attributable to this destructive type of fishing.

SALMON ROD FISHERIES.

The revenue derived from the letting of rod fishing was £217 as compared with £214 in the previous year. The number of visiting anglers remained small owing to the continuance of travel restrictions.

PIKE FISHING.

With a view to reducing the stock of pike in the Shannon, the Board encouraged their destruction by opening a purchasing depot at Killaloe. Under this scheme 524 fish weighing 2,603 lbs. were caught and realised £146 on sale. Over the past few seasons the Board has accounted for the destruction of about five tons of pike.

OYSTER FISHERIES.

The oyster fisheries remained closed owing to the emergency conditions. As seed oysters were not procurable from Brittany the question of erecting spatting tanks for breeding purposes is being investigated.

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

PATRICK J. DEMPSEY, Secretary.

2nd July, 1946.

APPENDICES

LIST OF APPENDICES.

Appendix.

I.—Number of Consumers and other particulars relating to all Areas supplied by the Board.

II.—Increases in tariffs for electricity.

III.—Generation load duration, and integrated load duration, curves.

IV.—Distribution at high tension of units generated during the year.

V.—Outputs of the Board's generating stations during the year.

VI.—Typical daily generation load curves.

VII.—Capacity of the Board's main generating stations.

VIII.—Weekly summary of operating conditions.

IX.—Water levels and discharges of Loughs Allen, Ree and Derg, for the year.

X.—Water levels and discharges of Pollaphuca for the year.

XI.—Transmission and distribution systems in commission.

XII.—Particulars of permitted undertakings providing supply at 31st March, 1946.

XIII.—Units generated from 1st April, 1928, to 31st March, 1946.

XIV.—Report of the Tribunal set up under the Electricity Supply Board (Superannuation) Act, 1942.

DUBLIN No. 1 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Dublin–Rathmines–Pembroke	475,594	84,310	81,457	71,903	71,155
Terenure-Kimmage ...		2,997	2,964		
Crumlin		8,520	8,299		
Rathfarnham		959	937		
Templeogue		183	184		
Firhouse		31	31		
Woodtown		1	1		
TOTALS ...	475,594	97,001	93,873	71,903	71,155

CORK No. 1 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Cork City	99,011	17,274	16,453	18,906	18,920
TOTALS ...	99,011	17,274	16,453	18,906	18,920

ATHLONE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Ahascragh	269	48	48	4	4
Ardagh (Co. Longford) ...	—	24	24	1	1
Athleague	208	37	33	15	15
Athlone	7,257	1,658	1,624	2,371	2,341
Ballinagar	—	4	4	Nil	Nil
Ballinasloe	5,834	593	585	447	445
Ballygar	335	87	84	32	32
Ballymahon	643	133	132	52	52
Banagher	720	114	113	109	109
Birr	—	3	3	54	54
Borrisokane	551	172	166	5	5
Clara	1,590	405	393	433	372
Cloghan	188	29	30	33	8
Daingean (or Philipstown)	518	69	68	14	14
Edgeworthstown (or Mostrim)	515	115	112	46	43
Eyrecourt	323	39	39	Nil	Nil
Ferbane	301	79	78	2	2
Granard	1,236	203	197	27	27
Kilbeggan	593	135	128	11	10
Kilcormac (or Frankford)	448	74	70	38	38
Longford	3,807	752	724	105	103
Lorrha	98	26	27	Nil	Nil
Moate	1,326	190	187	3	2
Mullingar	5,237	1,051	1,023	688	556
Newtownforbes	369	42	42	45	45
Portumna	—	3	3	345	345
Roscommon	2,040	441	432	81	71
Tullamore	5,135	1,034	1,004	1,794	1,773
TOTALS ...	39,541	7,560	7,373	6,755	6,467

DUBLIN No. 2 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Baldoyle	765	209	206	26	26
Howth and Sutton ...	4,832	1,161	1,160	105	110
Raheny	—	271	267	10	10
Coolock	349	86	80	2	2
Artane	996	69	66	75	75
Santry	116	108	91	90	65
Finglas	1,383	340	325	219	209
Chapelizod	—	342	335	80	55
Knockmaroon	—	14	14	1	1
Lucan	867	369	362	270	268
Ballydowd	—	20	20	Nil	Nil
Palmerstown	208	33	33	56	56
Bluebell	399	82	80	92	92
The Ranch	—	141	145	Nil	98
Blackrock and Monkstown	54,129	3,537	3,419	858	853
Cabinteely		137	104	10	8
Carrickmines		89	84	10	6
Dalkey		949	911	70	70
Dundrum—Sandyford ...		2,165	2,090	277	261
Dun Laoghaire		4,003	3,826	884	878
Foxrock		414	390	38	38
Killiney—Ballybrack ...		445	436	101	98
Kill-o'-the-Grange ...		141	140	8	11
Stillorgan		233	232	154	154
Shankill—Loughlinstown ...	2,332	402	381	13	12
Bray	10,347	2,430	2,394	1,748	1,701
Greystones	1,535	583	573	311	310
Ashford	—	86	83	35	35
Balbriggan	2,434	438	414	175	174
Balgriffin	—	60	61	11	11
Ballymore Eustace ...	338	111	93	115	115
Balrothery	—	10	11	Nil	Nil
Blanchardstown	417	178	164	35	34
Blessington	289	116	107	71	71
Castleknock	1,789	171	152	102	84

DUBLIN No. 2 DISTRICT—*continued.*

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Celbridge	627	193	185	96	88
Clane	145	31	31	Nil	Nil
Clondalkin	967	303	258	3,997	3,973
Clonee	112	27	22	7	7
Clonsilla—Porterstown ...	819	119	116	32	32
Delgany—Killincarrig ...	1,060	220	218	9	8
Donabate	186	160	160	93	32
Dunboyne	290	63	61	44	44
Enniskerry	—	12	10	Nil	Nil
Glenealy	—	33	29	92	75
Kilcock	475	84	85	35	35
Kilcoole	303	110	108	Nil	Nil
Kill and Johnstown ...	95	56	50	2	Nil
Kilmacanogue	—	34	31	Nil	Nil
Kiltiernan—Scalp ...	713	128	113	10	9
Kingswood	—	17	18	Nil	Nil
Kinsaley	—	21	19	Nil	Nil
Leixlip	571	206	204	128	127
Lusk	305	113	91	4	4
Malahide	1,259	411	380	31	31
Maynooth	632	147	142	137	137
Naas	3,290	597	603	574	557
Newtownmountkennedy ...	208	158	157	11	11
Portmarnock	516	142	133	7	6
Poulaphouca	—	11	10	3	3
Rathcoole	223	74	72	4	4
Rathdrum	504	195	195	300	296
Rathnew	547	92	97	57	57
Rockbrook	—	23	24	Nil	Nil
Rush	1,651	388	374	48	40
Saggart	116	47	44	1,573	1,573
Sallins and Clongowes ...	276	45	41	339	339
Skerries	2,134	612	587	85	80
Stepaside	102	19	18	Nil	Nil
Swords	838	272	271	208	198
Tallaght	611	124	116	426	429
Turnapin	238	28	24	Nil	Nil
Wicklow	3,183	563	537	347	329
TOTALS ...	106,521	25,821	24,883	14,751	14,515

CORK No. 2 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Ballinacurra	403	86	82	187	187
Ballincollig	400	59	58	Nil	Nil
Ballineen	272	63	62	147	147
Bandon	3,500	825	798	542	514
Bantry	2,643	460	453	157	162
Bishopstown	97	69	59	97	97
Blarney	723	192	190	74	74
Buttevant	881	194	190	64	61
Carrigaline	315	94	91	21	15
Carrigtwohill	402	52	50	30	Nil
Castlelyons	113	25	25	110	110
Castlemartyr	346	66	62	8	8
Castletownroche	443	77	74	12	12
Castletownsend	147	25	22	Nil	Nil
Clonakilty	2,961	534	529	520	520
Cloyne	684	93	92	110	110
Cobh	6,272	1,010	955	1,145	1,145
Courtmacsherry	221	41	40	4	4
Crookstown	—	21	21	164	164
Crosshaven	724	165	154	60	60
Doneraile	740	165	164	31	31
Drimoleague	344	61	60	Nil	Nil
Drinagh	—	23	22	429	359
Drommahane	96	21	17	Nil	Nil
Dunmanway	1,561	276	268	183	158
Enniskeane	162	34	35	2	2
Fermoy	4,123	614	570	390	385
Glandore	124	17	17	Nil	Nil
Glanmire	213	79	78	136	Nil
Glanworth	261	50	49	Nil	Nil
Glounthaune	—	14	11	Nil	Nil
Haulbowline	—	19	19	2,493	2,493
Innishannon	182	30	30	3	Nil
Kildorrery	236	68	60	13	Nil
Killeagh	235	40	35	38	Nil
Kilnap	272	58	55	119	119
Kinsale	2,661	452	441	133	121
Leap	157	34	34	Nil	Nil
Lombardstown	—	8	8	115	Nil
Macroom	2,382	464	462	129	116
Mallow	4,948	1,028	999	304	295
Midleton	2,823	504	465	259	227
Mitchelstown	1,902	484	476	236	236
Mogeely	—	7	7	Nil	Nil
Mount Desart	—	1	1	Nil	Nil
Passage West	2,648	306	299	15	14
Monkstown		159	152	Nil	Nil
Rathcormac	187	31	30	Nil	Nil
Rochestown	—	1	1	6	6
Rostellan	112	40	40	Nil	Nil
Skibbereen	2,541	521	504	179	154
Timoleague	248	57	55	49	39
Upper Aghada	155	20	20	Nil	Nil
Whitegate	286	75	73	Nil	Nil
Youghal	5,131	696	659	224	202
TOTALS ...	56,277	10,608	10,223	8,938	8,347

DUNDALK DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
An Uaimh (Navan) ...	4,123	899	859	1,147	1077
Ardee	2,383	297	276	287	287
Arvagh	525	96	91	11	11
Athboy	520	124	122	85	85
Bailieborough	854	189	189	271	263
Ballinagh	314	54	52	Nil	Nil
Ballybay	1,034	224	223	44	41
Ballyjamesduff	434	103	99	12	12
Belturbet	1,341	207	215	221	201
Bettystown—Laytown-Mornington-Donacarney	258	182	159	46	46
Blackrock (Louth) ...	695	164	154	24	24
Butler's Bridge	96	21	19	Nil	Nil
Carrickmacross	2,095	401	383	204	197
Castleblayney	1,725	364	350	374	371
Cavan	3,393	601	595	249	256
Ceanannus Mór (Kells) ...	2,304	405	397	246	232
Clones	2,400	522	497	109	104
Cootehill	1,593	287	270	180	157
Crossdoney	—	4	4	Nil	Nil
Drogheda	14,494	2,325	2,211	3,408	3,327
Drum	72	14	14	Nil	Nil
Drumcondrath	147	26	26	Nil	Nil
Dundalk	16,214	3,245	3,089	3,825	3,724
Killeshandra	473	102	97	391	391
Kilnaleck	247	41	39	Nil	Nil
Kingscourt	631	123	115	472	322
Monaghan	4,780	640	626	963	850
Newtown	—	1	1	10,678	10,678
Oldcastle	586	149	149	28	28
Shercock	228	62	60	107	73
Trim	1,455	233	228	63	53
Virginia	418	96	94	39	39
TOTALS ...	65,832	12,201	11,703	23,484	22,849

LIMERICK DISTRICT.

Appendix I—continued.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Adare	497	106	106	171	171
Annacotty	—	26	24	90	90
Ardagh	119	30	28	91	91
Ardnacrusha and Clonlara	249	76	78	354	354
Askeaton	581	115	112	42	42
Ballagh	—	1	1	164	164
Ballingarry (Co. Limerick)	339	67	67	72	72
Ballylanders	193	45	43	15	15
Birdhill	—	11	12	15	15
Broadford (Ráth Luirc) ...	162	22	21	Nil	Nil
Bruff	349	88	77	16	13
Bruree	250	55	47	69	69
Bulgaden	—	2	2	Nil	Nil
Caherconlish	305	41	41	Nil	Nil
Cahir	1,638	362	350	268	253
Cappamore	558	72	73	168	168
Cappawhite	426	52	50	15	3
Cashel	3,028	416	407	169	166
Castleconnell	219	66	72	Nil	Nil
Castlemungret	—	1	1	2,670	2,670
Castletroy	—	32	30	203	203
Castlemahon	72	15	16	93	93
Clarecastle	549	98	100	Nil	Nil
Cloncagh	—	5	4	74	74
Croom	791	103	104	59	59
Doon	478	61	61	24	24
Dromina	109	15	14	20	20
Drumcollogher	457	109	103	22	20
Elton	—	10	10	100	100
Ennis	5,897	1,193	1,185	638	645
Ennistymon	1,264	269	264	175	156
Foynes	—	11	8	95	7
Galbally	195	32	32	20	20
Garryspillane	—	3	3	57	57
Hospital	609	115	112	38	38
Herbertstown	85	22	22	136	136
Kilfenora	165	40	Nil	Nil	Nil
Kilfinane	818	148	147	54	54
Kilkee	1,863	306	303	11	8
Kilkishen	108	20	18	Nil	Nil
Killaloe and Ballina (Tipp.)	1,066	234	232	134	98
Kilmallock	861	270	258	247	250
Kilrush	3,426	509	506	323	290
Knocklong	—	26	26	246	246

LIMERICK DISTRICT—*continued.*

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Lahinch	327	71	69	1	1
Lattin	—	1	1	93	93
Limerick City	43,663	8,953	8,701	8,066	7,961
Limerick Junction ...	206	46	42	38	35
Lisdoonvarna	193	122	117	249	176
Martinstown	—	1	1	Nil	Nil
Milford (Ráth Luirc) ...	161	36	36	222	222
Miltown-Malbay	809	168	164	6	6
Murroe	—	2	2	40	40
Nenagh	4,902	808	783	900	845
Newcastle West	2,943	446	435	214	214
New Inn	117	18	17	96	96
Newmarket-on-Fergus ...	368	85	87	18	18
Newport (Tipp.) ...	494	98	96	138	138
Newtown (Ráth Luirc) ...	106	18	18	87	87
O'Brien's Bridge—Montpelier	277	28	24	Nil	Nil
Oola	392	16	Nil	Nil	Nil
Rathkeale	1,565	262	262	135	135
Ráth Luirc (Charleville) ...	1,625	369	358	284	284
Rineanna and Ballygireen	—	23	17	277	276
Solohead	—	9	9	49	49
Spanish Point	—	3	4	Nil	Nil
Tipperary	5,384	761	716	626	597
Tulla	474	97	96	6	6
TOTALS ...	91,732	17,741	17,230	18,703	18,233

GALWAY DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Athenry	1,048	210	212	133	113
Ballyhaunis	1,160	251	250	36	36
Castlebar	4,826	754	741	717	714
Claremorris	1,132	352	348	493	493
Clarinbridge	123	20	18	Nil	Nil
Galway	18,294	3,283	3,230	1,745	1,696
Gort	1,034	215	212	159	159
Kinvara	420	40	40	Nil	Nil
Loughrea	2,891	327	314	167	157
Newport (Mayo) ...	353	95	93	37	27
Oranmore	184	29	28	9	1
Tuam	4,181	822	809	168	148
Westport	3,409	654	651	704	685
TOTALS ...	39,055	7,052	6,946	4,368	4,229

PORTLAOIGHISE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Abbeyleix	664	162	160	52	36
Athy	3,628	642	641	532	492
Ballinakill	338	60	57	32	2
Baltinglass	659	183	188	17	18
Ballybrophy	—	2	2	7	7
Ballymany—Loughbrown ...	—	53	51	32	32
Ballyragget	449	108	106	22	22
Ballyroan	127	23	20	Nil	Nil
Borris-in-Ossory	216	50	41	17	1
Borrisoleigh	544	103	105	34	34
Brannockstown	—	17	17	Nil	Nil
Brownstown	226	141	150	10	10
Callan	1,516	253	254	236	236
Carlow	7,649	1,235	1,081	714	639
Castlecomer	809	215	217	1,256	1,256
Castledermot	276	119	119	76	78
Castletown	251	24	20	Nil	Nil
Clogh	167	38	37	Nil	Nil
Clonbullogue	79	15	13	Nil	Nil
Curragh Camp	—	1	1	258	258
Donaghmore	87	11	11	Nil	Nil
Droichead Nua (Newbridge)	2,375	635	628	998	955
Dunlavin	332	86	83	3	9
Durrow	462	96	85	6	6
Edenderry	2,093	415	394	263	254
Freshford	456	105	103	161	105
Hacketstown	377	91	95	29	3
Johnstown (Co. Kilkenny)	307	55	53	3	2
Kilcullen	441	117	115	46	11
Kildare	1,758	454	469	141	140
Kilkenny	10,237	1,516	1,483	842	817
Kiltegan	101	25	24	Nil	Nil
Leighlinbridge	425	88	79	112	109
Loughmore	—	19	15	Nil	Nil
Milemill	—	18	22	Nil	Nil
Monasterevan	580	133	130	118	110
Mountmellick	2,314	405	365	140	111
Mountrath	1,116	210	192	36	15
Muine Bheag (Bagenalstown)	1,897	334	322	190	164
Palatine	101	18	19	Nil	Nil
Portarlington and Clonsast	1,851	463	458	1,025	1,016
Portlaoighise	3,396	778	763	795	780
Rathangan	431	72	67	76	44
Rathdowney	825	180	162	9	9
Rathvilly	253	39	41	Nil	Nil
Roscrea	3,060	608	586	628	604
Stradbally	762	129	126	35	23
Talbot's Inch	108	34	33	7	7
Templemore	1,981	325	315	142	126
The Swan	—	27	26	557	557
Thurles	5,648	967	941	409	390
Tullow	1,616	316	317	88	59
Urlingford	528	71	67	8	7
TOTALS ...	63,516	12,284	11,869	10,162	9,554

SLIGO DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Arigna	—	11	8	346	326
Ballaghaderreen	1,122	307	301	86	86
Ballina	5,728	1,291	1,274	616	560
Ballymote	738	188	175	134	134
Ballyshannon	2,223	637	Nil	286	Nil
Boyle	—	1	1	36	36
Bundoran	1,352	373	Nil	29	Nil
Carrick-on-Shannon ...	1,015	338	328	145	87
Castlerea	1,313	339	332	187	168
Charlestown and Bellahy ...	773	198	198	21	20
Convoy	369	92	90	720	719
Crocketstown (Ballina Quay)	171	23	23	Nil	Nil
Crossmolina	660	143	135	44	42
Curry	—	17	16	Nil	Nil
Drumsna	122	11	9	Nil	Nil
Elphin	548	113	116	3	3
Foxford	805	163	159	258	253
Gurteen	—	42	37	9	8
Inniscrone	399	114	109	10	Nil
Jamestown	—	5	5	Nil	Nil
Kilkelly	160	56	54	Nil	Nil
Killala	449	66	65	Nil	Nil
Kiltimagh	1,090	230	220	64	60
Leitrim	107	23	23	Nil	Nil
Letterkenny	2,649	537	512	135	127
Lifford	478	148	140	59	57
Loughglynn	114	22	18	Nil	Nil
Mohill	714	192	182	43	30
Sligo	12,565	2,140	2,084	1,568	1,415
Strokestown	628	153	150	32	32
Swinford	1,203	300	301	164	104
Tubbercurry	823	175	175	78	55
TOTALS ...	38,318	8,448	7,240	5,073	4,322

TRALEE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Abbeyfeale	1,122	239	234	55	55
Athea	259	56	56	Nil	Nil
Ballylongford	514	73	72	89	89
Boherbue	242	56	56	99	99
Brosna	332	65	66	234	234
Castleisland	1,325	292	283	207	206
Castlemaine	104	24	24	157	157
Dromtariffe	—	2	2	48	48
Duagh	128	13	13	Nil	Nil
Edenburn	—	1	1	18	18
Glin	516	92	90	73	73
Kanturk	1,555	330	309	393	393
Killarney	5,609	865	837	299	284
Killorglin	775	233	231	145	80
Listowel	3,098	593	593	515	515
Millstreet	975	209	203	137	130
Miltown	311	65	65	16	16
Newmarket	838	185	178	198	198
Newtownsandes	230	43	42	44	44
Rathmore	184	33	29	139	124
Tarbert	315	52	52	32	32
Tralee	10,620	2,150	2,117	1,369	1,344
TOTALS ...	29,052	5,671	5,553	4,267	4,139

WATERFORD DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Arklow	4,680	1,010	980	646	621
Ballyhale	102	25	24	10	10
Ballypatrick	—	4	4	76	76
Campile	117	14	13	196	60
Cappagh	—	2	1	25	25
Cappoquin	1,038	189	178	59	59
Carnew	516	64	62	30	10
Carrick-on-Suir	4,840	782	743	675	661
Clonmel	9,391	1,257	1,047	754	744
Clonegal	136	27	21	Nil	Nil
Dungarvan	5,361	1,018	1,002	895	895
Dunmore East	308	92	92	5	5
Enniscorthy	5,873	939	912	747	719
Ferns	342	107	79	113	113
Fethard	1,112	228	219	61	67
Gorey	2,323	444	415	414	413
Graiguenamanagh and Tinnahinch	1,125	231	179	114	114
Inistioge	326	43	43	Nil	Nil
Killenaule	511	85	81	555	322
Lismore	1,194	227	227	128	93
New Ross	5,056	779	760	682	690
Newtownbarry and Carrickduff	766	200	186	52	45
Passage East	431	65	64	5	5
Piltown	287	57	58	238	238
Portlaw	847	173	172	813	813
Rosslare Harbour and Kilrane	629	107	101	239	239
Rosslare Strand	189	89	80	47	47
Shillelagh	147	30	25	Nil	Nil
Taghmon	345	53	53	9	Nil
Tallow	779	160	141	34	34
Thomastown	769	168	167	53	42
Tinahely	296	59	55	Nil	Nil
Tramore	2,047	702	674	63	47
Waterford	27,968	4,791	4,653	4,968	4,983
Wexford	12,247	1,254	1,151	1,263	1,246
TOTALS ...	92,098	15,475	14,662	13,969	13,436

SUMMARY.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1945	1946	1945
Athlone District ...	39,541	7,560	7,373	6,755	6,467
Cork No. 1 District ...	99,011	17,274	16,453	18,906	18,920
Cork No. 2 District ...	56,277	10,608	10,223	8,938	8,347
Dublin No. 1 District	475,594	97,001	93,873	71,903	71,155
Dublin No. 2 District	106,521	25,821	24,883	14,751	14,515
Dundalk District ...	65,832	12,201	11,703	23,484	22,849
Galway District ...	39,055	7,052	6,946	4,368	4,229
Limerick District ...	91,732	17,741	17,230	18,703	18,233
Portlaoighise District	63,516	12,284	11,869	10,162	9,554
Sligo District ...	38,318	8,448	7,240	5,073	4,322
Tralee District ...	29,052	5,671	5,553	4,267	4,139
Waterford District ...	92,098	15,475	14,662	13,969	13,436
TOTALS ...	1,196,547	237,136	228,008	201,279	196,166

Reprint of Advertisement from the Daily Newspapers, 4th May, 1945.

NOTICE

Charges for Electricity Supply

THIRD EMERGENCY INCREASE

The Electricity Supply Board announces that the following alterations in charges will become effective in all areas beginning with the June/July, 1945, accounting period :—

For Supplies chargeable under a two-part tariff based on Valuation or Floor Area :

40% increase on UNIT charges, in substitution for the 20% increase already in force. (The existing 20% increase will remain in force on the **FIXED** charges.)

For Public Lighting Supplies :

30% increase, in substitution for the 10% increase already in force.

For Slot Meter, Current Limiter, Coin Limiter and Unmetered Supplies :

20% increase, in substitution for the 10% increase already in force.

For all other Supplies :

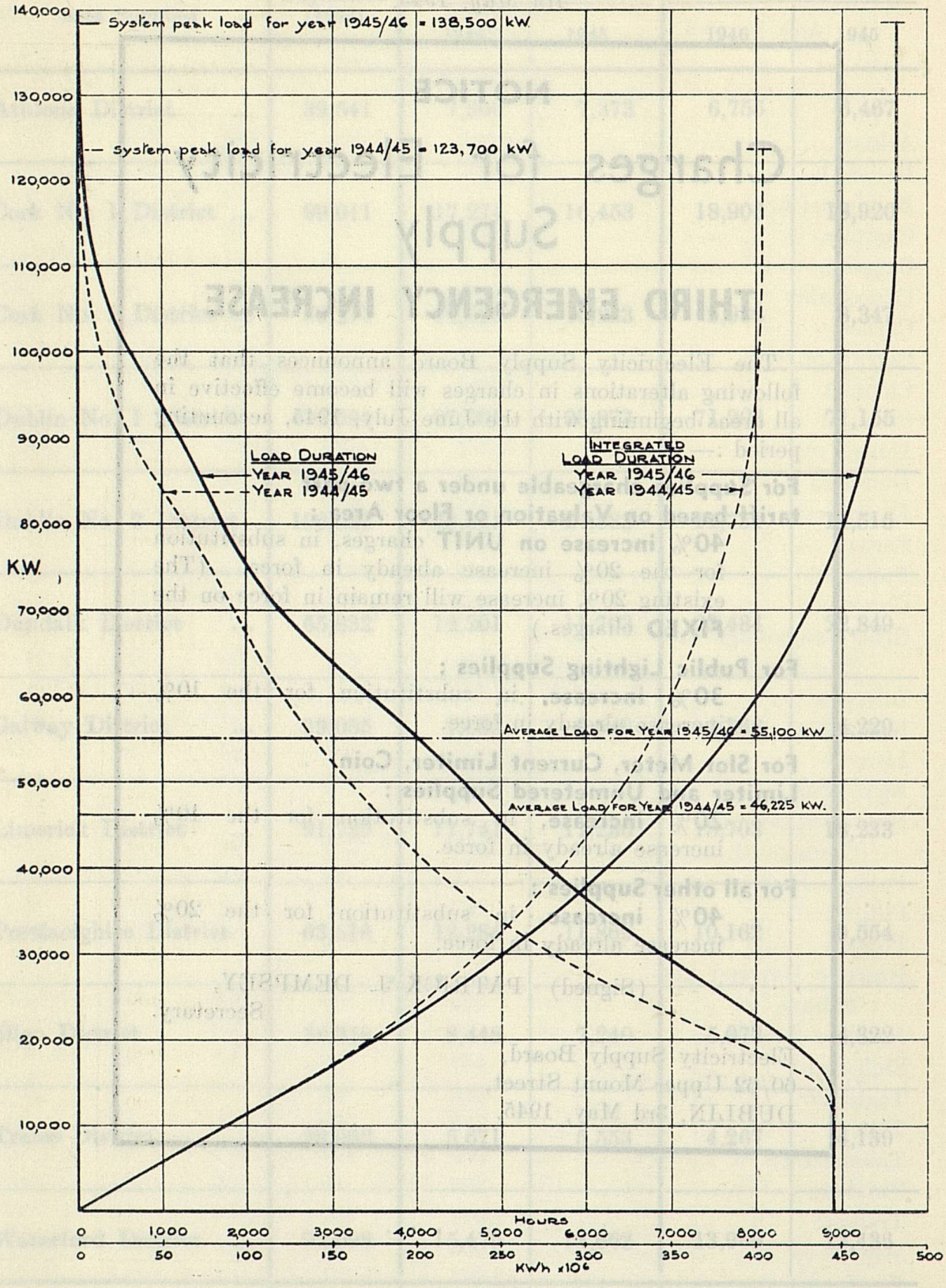
40% increase, in substitution for the 20% increase already in force.

(Signed) PATRICK J. DEMPSEY,
Secretary.

Electricity Supply Board,
60/62 Upper Mount Street,
DUBLIN, 3rd May, 1945.

GENERATION LOAD DURATION AND INTEGRATED LOAD DURATION CURVES

YEAR 1945/46



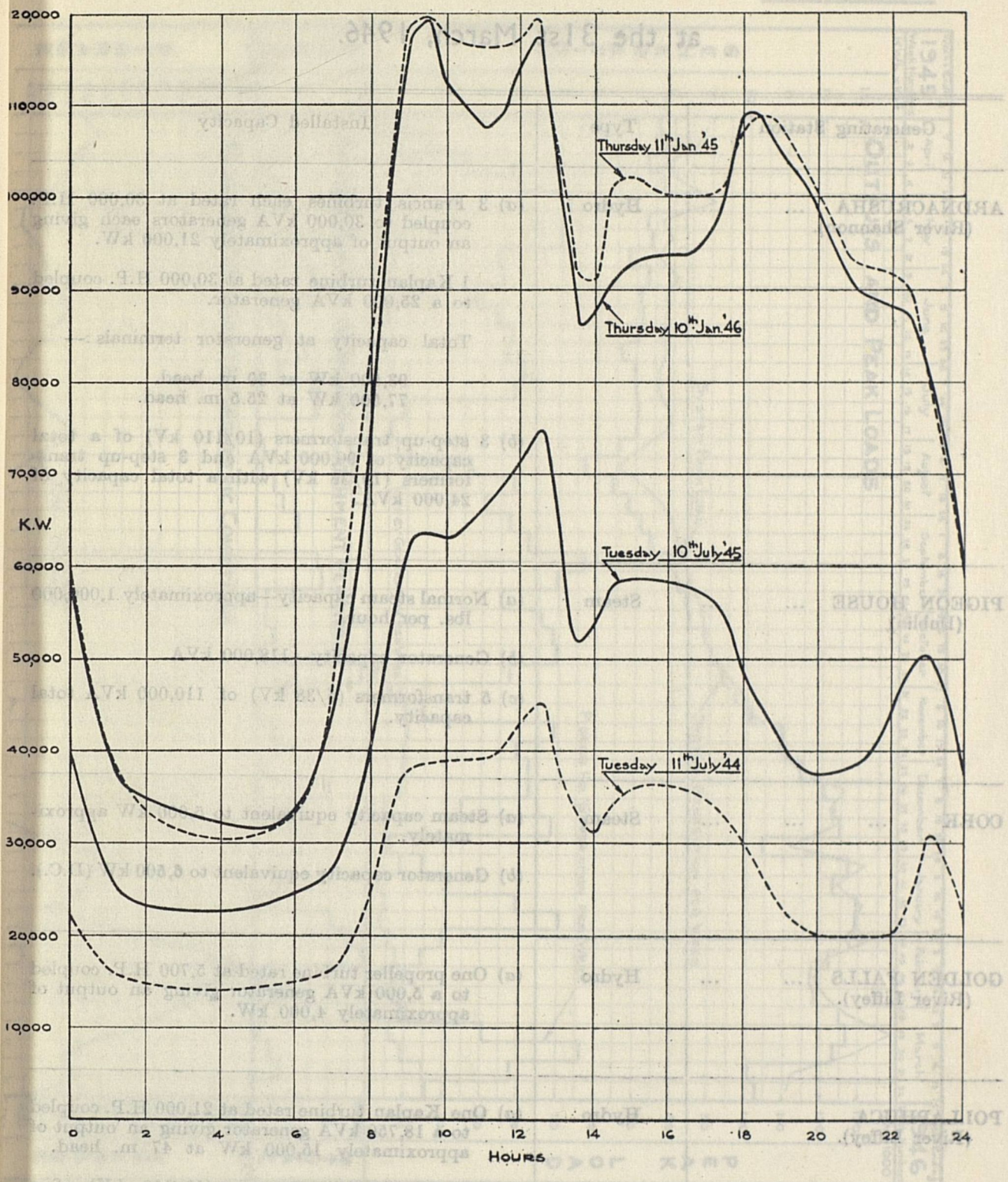
Distribution at High Tension of Units generated and purchased in bulk from the Electricity Board for Northern Ireland.
Year ended 31st March, 1946.

District, etc.		High Tension Units	Percentage of Total
Dublin City 5 kV. Supply	105,191,000		
Dublin City 10 kV. Supply	35,267,000		
TOTAL SUPPLY TO DUBLIN CITY		140,458,000	29·1
Córas Iompair Éireann (Dublin Tramways)		7,209,000	1·5
Cork City D.C. Supply	9,890,000		
Cork City A.C. Supply	22,162,000		
TOTAL SUPPLY TO CORK CITY		32,052,000	6·6
Athlone District		14,858,700	3·1
Cork No. 2 District		15,621,100	3·2
Dublin No. 2 District		49,644,700	10·3
Dundalk District		37,326,500	7·7
Galway District		9,655,900	2·0
Limerick District		36,507,600	7·6
Portlaoighise District		22,560,600	4·7
Sligo District		9,390,400	1·9
Tralee District		7,336,000	1·5
Waterford District		23,797,900	4·9
Station Auxiliaries		19,962,000	4·1
High Tension Losses		57,245,500	11·8
Total generation of all stations	482,215,700		
Bulk supply purchased from E.B.N.I.	1,410,000		
Total generation of all stations plus bulk supply purchased from E.B.N.I.		483,625,900	100·0

Outputs (kWh) of the Board's Generating Stations and bulk supply (kWh) purchased from the Electricity Board for Northern Ireland.—Year ended 31st March, 1946.

Month (Calendar)	Ardnacrusha	Pollaphuca	Golden Falls	Pigeon House Dublin	Cork	Total of all Generating Stations	Bulk Supply purchased from E.B.N.I.	Total generation and bulk supply purchased from E.B.N.I.
April ...	19,436,900	2,946,700	1,102,600	8,995,800	—	32,482,000	112,300	32,594,300
May ...	10,219,800	1,958,300	740,400	19,907,900	—	32,826,400	109,600	32,936,000
June ...	13,830,400	1,225,900	520,300	14,599,800	—	30,176,400	100,200	30,276,600
July ...	21,127,100	—	—	9,536,500	6,200	30,669,800	102,500	30,772,300
August ...	15,637,400	—	—	13,203,000	39,000	28,879,400	88,200	28,967,600
September ...	14,534,300	16,800	59,200	19,194,300	30,700	33,835,300	88,300	33,923,600
October ...	21,708,700	248,200	118,900	18,067,500	34,000	40,177,300	130,300	40,307,600
November ...	27,961,600	3,132,500	1,165,600	13,835,700	58,800	46,154,200	135,200	46,289,400
December ...	36,295,600	1,854,600	654,500	13,222,800	26,900	52,054,400	138,700	52,193,100
January ...	40,858,400	1,616,300	561,300	13,673,100	32,200	56,741,300	150,600	56,891,900
February ...	40,759,300	2,590,900	899,900	3,913,300	12,200	48,175,600	134,700	48,310,300
March ...	30,492,500	3,611,700	1,248,600	14,637,300	53,500	50,043,600	119,600	50,163,200
TOTALS ...	292,862,000	19,201,900	7,071,300	162,787,000	293,500	482,215,700	1,410,200	483,625,900

TYPICAL DAILY GENERATION LOAD CURVES, YEAR 1945/46.

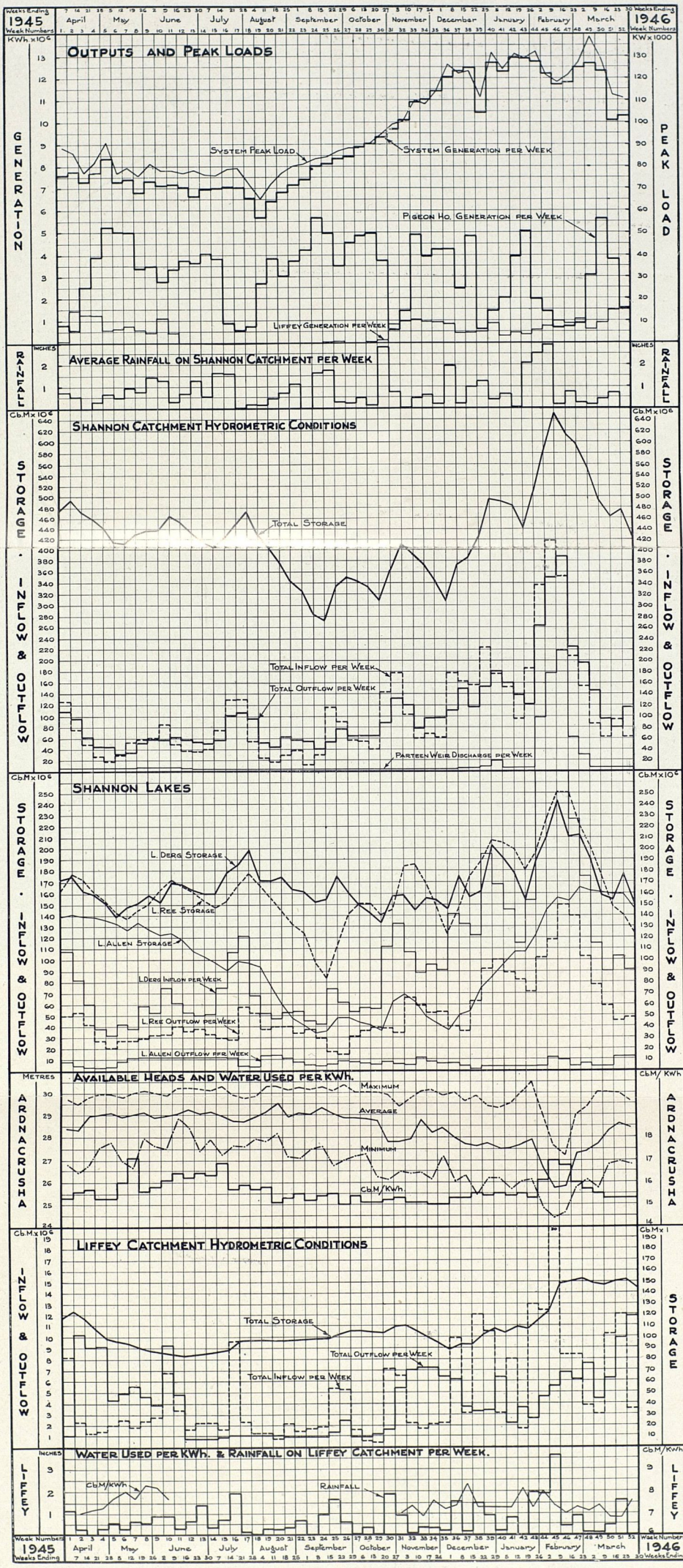


Capacity of the Board's Main Generating Stations at the 31st March, 1946.

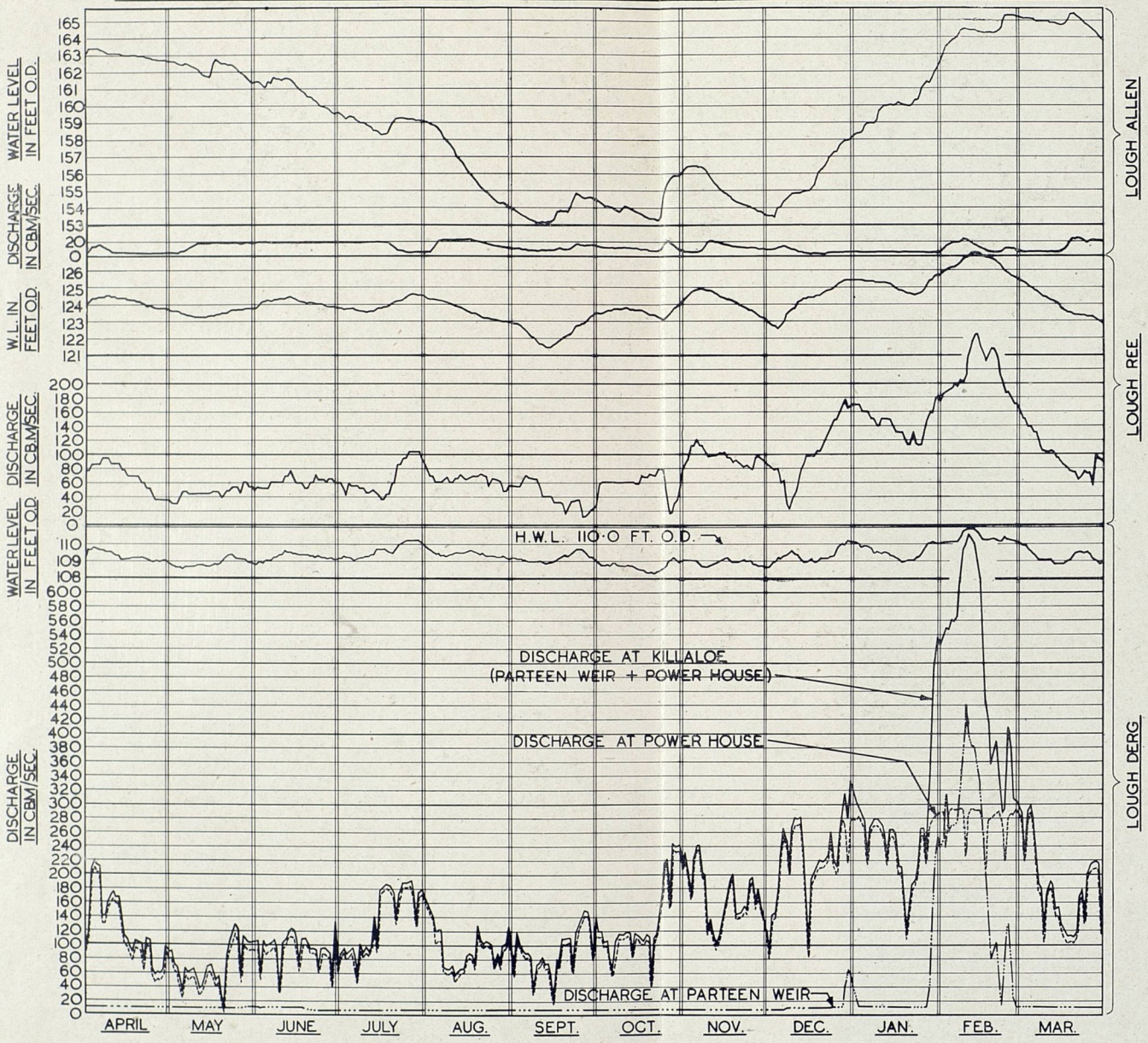
Generating Station	Type	Installed Capacity
ARDNACRUSHA ... ... (River Shannon).	Hydro	(*a*) 3 Francis turbines each rated at 30,000 H.P. coupled to 30,000 kVA generators each giving an output of approximately 21,000 kW. 1 Kaplan turbine rated at 30,000 H.P. coupled to a 25,000 kVA generator. Total capacity 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 ... ... (Dublin)	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.).
GOLDEN FALLS ... ... (River Liffey).	Hydro	(*a*) One propeller turbine rated at 5,700 H.P. coupled to a 5,000 kVA generator giving an output of approximately 4,000 kW.
POLLAPHUCA ... ... (River Liffey).	Hydro	(*a*) One Kaplan turbine rated at 21,000 H.P. coupled to a 18,750 kVA generator giving an output of approximately 15,000 kW at 47 m. head. (*b*) Two step-up transformers (10/110 kV) of a total capacity of 40,000 kVA.

WEEKLY SUMMARY OF OPERATING CONDITIONS, YEAR ENDED 31ST MARCH, 1946.

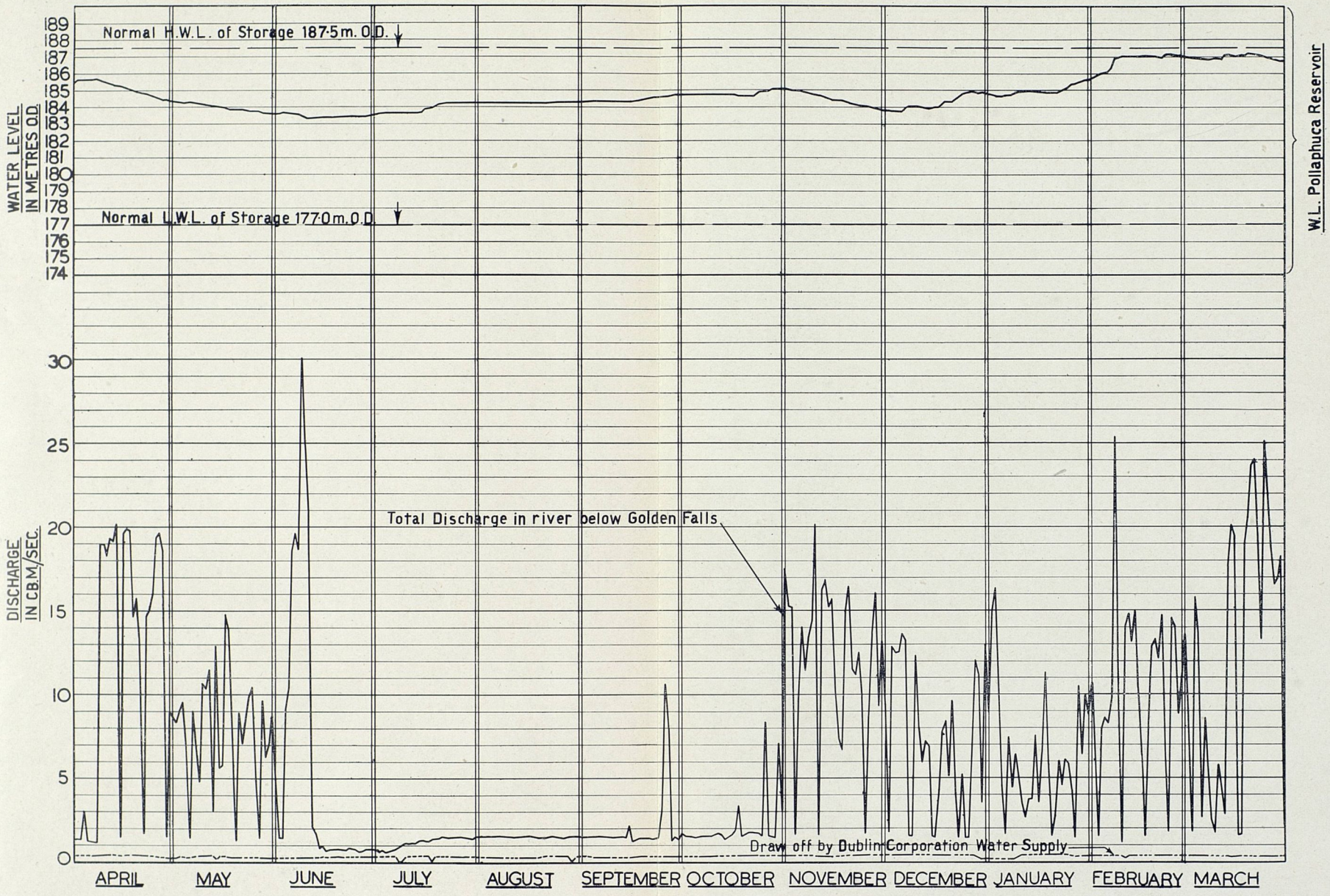
To face page 38 (a).



WATER LEVELS & DISCHARGES OF LOUGHS ALLEN, REE, & DERG FOR YEAR ENDING 31ST MARCH 1946



WATER LEVELS & DISCHARGES OF POLLAPHUCA RESERVOIR FOR YEAR ENDING 31ST MARCH 1946.



Transmission and Distribution Systems in Commission and under Construction at the 31st March, 1946.

Transformer Station	Number in Commission	Increase for Year	Total Capacity	Increase in Capacity for Year
110 kV Stations ...	6	—	110/38 kV. Stations=162,000 kVA 110/10 kV. Stations= 22,500 kVA	— —
38 kV Stations ...	97	3	257,530 kVA.	6,900 kVA
10 kV Substations	1,519	95	179,985 kVA.	6,318 kVA
5 kV Substations	109	—	86,158 kVA.	—
D.C. Substations	6	—	9,260 kW.	—
Frequency Changing Substation ...	1	—	6,320 kVA.	—

Transmission and Distribution Systems	Length	Increase for Year	Description
110 kV Lines ...	186·2 Kms.	—	6×95 sq. mm. Double Circuit.
110 kV Lines ...	593·4 Kms.	—	3×95 sq. mm. Single Circuit.
38 kV Lines ...	1,890·9 Kms.	19·1 Kms.	3×50 sq. mm.
38 kV Lines ...	328·2 Kms.	—	3×35 sq. mm.
10 kV Lines ...	3,499·8 Kms.	82·6 Kms.	3×10 sq. mm. to 3×70 sq. mm.
38 kV Cables ...	61·1 Kms.	1·4 Kms.	3×185 sq. mm.
38 kV Cables ...	27·7 Kms.	—0·9 Kms.	3×150 sq. mm.
38 kV Cables ...	8·9 Kms.	—0·5 Kms.	3 × 95 sq. mm., including 1 Km. of Submarine Cable.
10 kV Cables ...	285·8 Kms.	13·9 Kms.	3 × 10 sq. mm. to 3 × 185 sq. mm.
5 kV Cables ...	267·7 Kms.	—	Ditto.
3·3 kV Cables ...	3·7 Kms.	—	3×185 sq. mm.

Particulars of Permitted Electricity Undertakings at 31st March, 1946.

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, 1946
				Lighting	Heating and Cooking	Power	
Ardara	442	The Ardara Woollen & Industrial Co., Ltd ...	120	1/-	3d.	3d.	20,629 estd.
Ardfinnan	325	Mulcahy, Redmond & Co., Ltd.	14	1/6	—	—	2,054
Aughrim	—	W. J. Byrne	8	—	—	—	800 estd.
Balla	282	John McEllin	52	1/6	—	9d.	5,063
Ballinlough	248	Ballinlough Electricity Supply Co. ...	48	1/6	1/- Miscellaneous	—	2,100
Ballinamore	814	F. J. McAvinia	125	1/2	1/- Miscellaneous	—	21,698 estd.
Ballinrobe	1,351	The Ballinrobe Electric & Woollen Co., Ltd.	265	1/- & 1/3	1/- & 1/3	—	40,618 approx
Ballybofey and Stranorlar	1,198	Ballybofey & Stranorlar Electric Supply Co.	185	1/-	6d.	6d.	28,484 estd.
Ballybunion	543	The Ballybunion Electricity Supply Co., Ltd.	238	1/1	—	7d.	22,956 estd.
Ballyconnell	276	William Stewart	92	1/-	—	—	10,000 estd.
Ballysodare	205	W. G. & T. Pollexfen	53	7½d.	3d.	3d.	15,956
Belmont	—	Robert Perry & Co. (1927), Ltd. ...	23	6d.	6d.	4d.	3,781 estd.
Belmullet	684	M. McEntyre	106	1/3	—	8d.	12,327
Birr	3,297	The Birr E. L. & Power Co., Ltd. ...	538	9d.	2d., 4d.	3d., 4d.	149,470
Blacklion	110	Capt. W. J. Nixon	27	1/3 & 1/6	—	—	3,131
Boyle	2,093	George Stewart	65	7d.	1½d.	2½d.	29,190

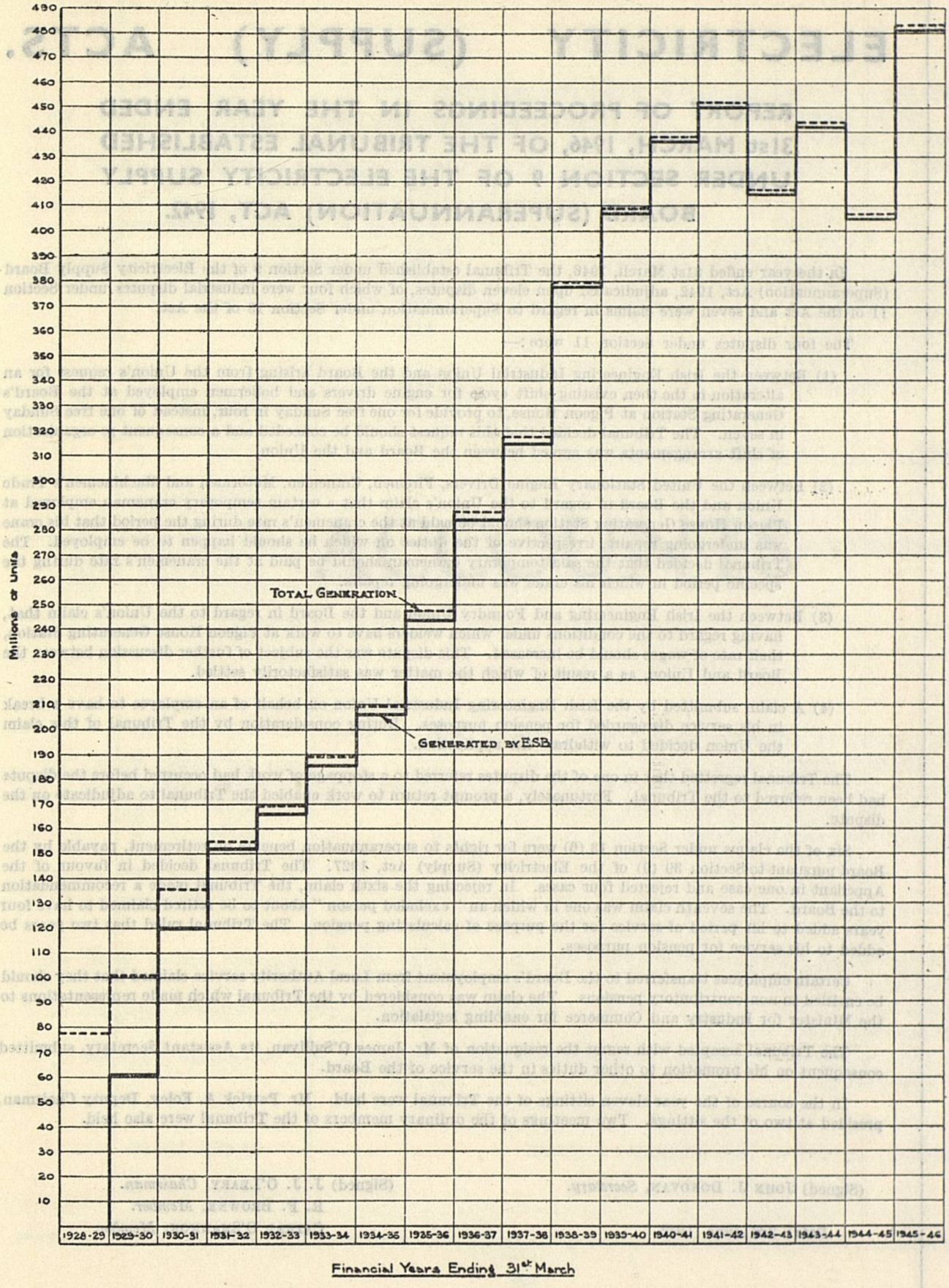
(1) Town	(2) Population	(3) Name of Undertaker	(4) No. of Consumers	(5) Normal Tariffs per Unit for			(6) Units Sold, Year ended 31st March, 1946
				Lighting	Heating and Cooking	Power	
Boyle	—	John Stewart	479	Miscellaneous 3d. to ½d. per unit			229,579
Borris, Co. Carlow ...	530	Borris Electricity Co., Ltd.	97	3d. to 7d.	1½d. to 2d.	3d. to 4d.	11,768
Buncrana	2,295	The Buncrana Electric Supply Co. ...	425	6d. to 1/-	4d.	4d. & 6d.	249,142
Cahirciveen	1,680	The Cahirciveen E. L. & Power Co., Ltd.	315	6d. to 8d.	1½d. to 6d.	3½d. to 1½d.	41,122
Carlingford	488	The Carlingford Electricity Co., Ltd. ...	106	10d.	6d.	6d.	11,000 estd.
Carndonagh	660	James Kelly	190	1/- & 6d.	—	—	23,500
Carrigart	115	Miss M. Maguire	16	1/-	6d.	6d.	1,215
Castlebellingham ...	243	Smallwares, Ltd.	13	1/3	—	—	11,617
Castlepollard	460	The Castlepollard Town Improvements Association	97	4d. & 6d.	—	2½d. + 20%	14,422
Clifden	1,019	Clifden E. L. & Power Station	140	1/-	—	—	15,000 estd. approx.
Clogheen	479	John Browne	87	1/-	6d.	—	15,937
Clonmany	123	Patrick Gallen	47	1/2	6d. Miscellaneous	6d.	2,000
Clonmellon	273	Clonmellon Hydro Electric Co., Ltd. ...	57	1/- to 9/- per week according to number of lights	—	3d.	15,055 estd.
Cloughjordan	416	Martin Gleeson	85	1/1	—	—	15,700
Collooney	310	W. A. G. Middleton	120	7½d.	1½d.	2d.	34,252 estd.
Dingle	1,800	The Dingle E. L. & Power Co.	199	8d. & 10d.	5d.	5d. & 4d.	30,877
Donegal	1,315	J. McGowan & Sons	256	1/-	6d.	5d.	52,493
Drumkeeran	232	The Drumkeeran Electricity Supply Co., Ltd.	49	1/3	—	Miscellaneous 4d.	5,448 estd.
Drumshambo	553	C. S. Laird, Ltd.	102	8d.	2d.	2d.	26,400 estd.
Dromahair	279	Paul Jeiter	42	9d.	3d. & 1½d.	—	11,030 estd.
Dungloe	593	The Templecrone Co-op. Agrl. Society, Ltd.	144	8d.	—	—	7,732
Dunmore Co. Galway ...	482	Dunmore Electric Light Co., Ltd. ...	95	1/5	—	9d.	6,900
Emyvale	237	C. McCluskey	46	8d.	—	—	6,749
Enniskerry	145	The Enniskerry E. S. Co-op. Society ...	52	1/-	4d.	4d.	5,784
Falcarragh	—	Leo McGinley	50	1/2	—	—	4,292
Foynes	497	Foynes Saw Mills, Ltd.	66	6d., 10d. & 1/-	—	6d.	26,239
Frenchpark	196	Frenchpark Electric Lighting Co., Ltd. ...	37	1/6	—	8d.	2,700 estd.
Frosses, Co. Donegal ...	—	Michael Campbell	17	1/-	—	—	952
Glaslough	—	David Patton	8	1/-	—	—	702
Glendalough	182	Messrs. Wynne	10		Included in rent.	—	9,000 estd.
Glenmore, Co. Kilkenny	—	Glenmore Co-Operative Creamery, Ltd. ...	26	1/- & 1/3	—	1/- Miscellaneous	2,643
Glenties	360	Glenties Electricity Supply Co., Ltd. ...	100	1/1	—	4d.	10,951
Gortahork	—	Michael McFadden	6	1/-	—	—	440
Kenmare	921	Kenmare Electric Supply Co.	251	6d. to 10d.	3d.	3d.	47,700

Appendix XII—continued.

(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, 1946
				Lighting	Heating and Cooking	Power	
Killybegs	631	Rev. Bro. Superior, St. Columba's E. L. Station	115	1/-	—	—	11,751
Kilmacthomas ...	357	Patrick Kiersey	45	1/-	—	1/-	7,960
Kinnegad	270	Thomas Dunne	7	1/-	—	—	1,500 estd.
Letterfrack	—	The Superior, Industrial School	13	8d.	—	—	2,093
Malin, Co. Donegal ...	112	Matthew O'Doherty	53	1/3	1/3	1/3	1,611
Manorhamilton ...	976	Manorhamilton & District E. L. Co., Ltd. ...	234	8d. & 11d.	4d.	4d.	32,329 estd.
Milford, Co. Donegal ...	377	McMahon Bros.	42	1/-	—	—	4,200
Milford, Co. Donegal ...		William Russell	32	1/-	—	—	3,000
Miltownpass	80 estd.	Miltownpass Elec. Light & Power Co., Ltd. ...	18	1/- per week per lamp	—	—	1,700 estd.
Mountbellew	284	Mountbellew Co-op. Agrl. Dairy Society, Ltd.	46	1/-	—	—	5,000 estd.
Moville	937	The Moville Electric Supply Co.	268	9d. & 10d.	—	4d. & 3d.	47,800
Pettigo	251	Shaw Bros.	76	10d.	—	—	4,920
Portumna	894	The Portumna E. L. & Power Co., Ltd. ...	184	1/- & 1/2	—	9d.	27,943
Ramelton	924	Robert J. Campbell	98	1/-	4d.	9d. & 10d.	15,052
Raphoe	754	Raphoe Electric Lighting Co., Ltd. ...	79	1/-	—	9d.	10,786
Rathfarnham	657	The Rathfarnham Mfg. Co., Ltd. ...	30	3·6d.	3·6d.	3·3d.	21,368 estd.
Riverstown, Co. Sligo ...	225	Flanagan Bros.	6	1/6, 2/6	—	—	563
St. Ann's Hill, Blarney	—	St. Ann's Hill Hydropathic Co., Ltd. ...	7	6d. per (Supply to B	unit minimum ungalows in Hy	charge dro Grounds)	3,303
St. Johnston, Co. Donegal	270	Edward J. White	53	1/-	—	—	9,500
Sixmilebridge	323	James O'Flynn & Sons, Ltd.	39	10d., 8d., 6d. & 3d.	—	—	7,000 estd.
Waterville	164	Electricity Supply Co., Ltd. Waterville, Co. Kerry	68	1/- 15s. per month	1/- and flat rate of	— 6d. per unit	8,358
Windgap	72	Windgap Co-op. Dairy Society, Ltd. ...	9	Fixed yearly rental of £6	—	—	1,400
Woodford	184	Mrs. John Roche	25	10d.	6d.	—	4,020 estd.
Various Districts ...	—	Great Northern Railway Co. (Ireland) ...	76	1·3d. to 1/-	1·3d. to 1·75d.	·84d. to 5d.	37,222

Total No. of undertakings 74; Total Population 37,493; Total No. of Consumers 7,411; Units sold 1,598,077 approximately.

UNITS GENERATED FROM APRIL 1ST, 1923 TO MARCH 31ST, 1946.



ELECTRICITY (SUPPLY) ACTS.

REPORT OF PROCEEDINGS IN THE YEAR ENDED 31st MARCH, 1946, OF THE TRIBUNAL ESTABLISHED UNDER SECTION 9 OF THE ELECTRICITY SUPPLY BOARD (SUPERANNUATION) ACT, 1942.

In the year ended 31st March, 1946, the Tribunal established under Section 9 of the Electricity Supply Board (Superannuation) Act, 1942, adjudicated upon eleven disputes, of which four were industrial disputes under Section 11 of the Act and seven were claims in regard to Superannuation under Section 13 of the Act.

The four disputes under Section 11 were:—

(1) Between the Irish Engineering Industrial Union and the Board arising from the Union's request for an alteration in the then existing shift cycle for engine drivers and boilermen employed at the Board's Generating Station at Pigeon House, to provide for one free Sunday in four, instead of one free Sunday in seven. The Tribunal decided that this request should be conceded and a consequent re-organization of shift arrangements was agreed between the Board and the Union.

(2) Between the United Stationary Engine Drivers, Firemen, Cranemen, Motormen and Machinemen's Trade Union and the Board in regard to the Union's claim that a certain temporary craneman employed at Pigeon House Generating Station should be paid at the cranemen's rate during the period that his crane was undergoing repairs, irrespective of the duties on which he should happen to be employed. The Tribunal decided that the said temporary craneman should be paid at the cranemen's rate during the specific period in which his crane was undergoing repairs.

(3) Between the Irish Engineering and Foundry Union and the Board in regard to the Union's claim that, having regard to the conditions under which welders have to work at Pigeon House Generating Station, their rate of wages should be increased. This dispute was the subject of further discussion between the Board and Union, as a result of which the matter was satisfactorily settled.

(4) A claim submitted by the Irish Engineering Industrial Union on behalf of an employee to have a break in his service disregarded for pension purposes. During consideration by the Tribunal of this claim the Union decided to withdraw the application.

The Tribunal regretted that in one of the disputes referred to a stoppage of work had occurred before the dispute had been referred to the Tribunal. Fortunately, a prompt return to work enabled the Tribunal to adjudicate on the dispute.

Six of the claims under Section 13 (6) were for rights to superannuation benefits on retirement, payable by the Board pursuant to Section 39 (9) of the Electricity (Supply) Act, 1927. The Tribunal decided in favour of the Appellant in one case and rejected four cases. In rejecting the sixth claim, the Tribunal made a recommendation to the Board. The seventh claim was one in which an " excluded person " about to be retired claimed to have four years added to his period of service for the purpose of calculating pension. The Tribunal ruled that two years be added to his service for pension purposes.

Certain employees transferred to the Board's employment from Local Authority service claimed that they should be entitled to non-contributory pensions. The claim was considered by the Tribunal which made representations to the Minister for Industry and Commerce for enabling legislation.

The Tribunal accepted with regret the resignation of Mr. James O'Sullivan, its Assistant Secretary, submitted consequent on his promotion to other duties in the service of the Board.

In the course of the year eleven sittings of the Tribunal were held. Mr. Patrick A. Foley, Deputy Chairman, presided at two of the sittings. Two meetings of the ordinary members of the Tribunal were also held.

(Signed) JOHN J. DONOVAN, *Secretary.*

Date: *3rd June*, 1946.

(Signed) J. J. O'LEARY, *Chairman.*
R. F. BROWNE, *Member.*
CATHAL O'SHANNON, *Member.*

ACCOUNTS

No. 1. INSTALLATIONS TRADING ACCOUNT FOR

Dr.

					Year 1944/45
			£	s. d.	£
To Cost value of work for which credit had not been taken at 31st March, 1945			11,380	5 3	14,132
,, Cost of installation work carried out during the year ...			65,793	0 6	42,343
,, Gross profit, carried down			19,173	19 10	17,893
			£96,347	5 7	£74,368
	£	s. d.			
To Salaries, wages and state insurance ...	9,790	5 2			
,, Travelling expenses	503	3 3			
,, Rents and rates	138	2 10			
,, Sundry expenses	575	0 7			
,, General overhead expenses and interest, as apportioned...	3,923	2 6			
			14,929	14 4	13,436
,, Balance, carried to Net Revenue Account			4,244	5 6	4,457
			£19,173	19 10	£17,893

No. 2. MERCHANDISE TRADING ACCOUNT FOR

Dr.

				Year 1944/45
		£	s. d.	£
To Cost value of transactions for which credit had not been taken at 31st March, 1945		3,140	19 5	4,984
,, Cost of goods issued as sales		33,630	10 2	15,798
,, Sundry costs in connection with sales		3,126	18 5	1,276
,, Gross profit, carried down		9,905	7 2	5,861
		£49,803	15 2	£27,919
	£ s. d.			
To Salaries, wages, commission and state insurance	3,461 12 8			
,, Travelling expenses	59 6 7			
,, Rents and rates	394 4 1			
,, Sundry expenses	471 11 11			
,, General overhead expenses and interest, as apportioned	3,033 1 1			
		7,419	16 4	6,128
,, Balance, carried to Net Revenue Account		2,485	10 10	—
		£9,905	7 2	£6,128

THE YEAR ENDED 31st MARCH, 1946.

Cr.

	£ s. d.	Year 1944/45 £
By Credit taken for contracts completed and charged ...	72,042 12 2	62,988
„ Cost value of work for which credit has not yet been taken	24,304 13 5	11,380
	£96,347 5 7	£74,368
By Gross profit, brought down	19,173 19 10	17,893
	£19,173 19 10	£17,893

THE YEAR ENDED 31st MARCH, 1946.

Cr.

	£ s. d.	Year 1944/45 £
By Credit taken for sales	41,422 6 3	24,778
„ Cost value of transactions for which credit has not yet been taken	8,381 8 11	3,141
	£49,803 15 2	£27,919
By Gross profit, brought down	9,905 7 2	5,861
„ Hireage receipts on hire-purchase appliances	—	17
„ Balance, carried to Net Revenue Account	—	250
	£9,905 7 2	£6,128

No. 3. **ELECTRICITY REVENUE ACCOUNT FOR**

Dr.

	£ s. d.	£ s. d.	Year 1944/45 £
To GENERATION:			
Operating expenses ...	... 102,322 16 6		
Fuel	... 527,476 5 1		
Maintenance and repair ...	... 133,980 2 6		
Transfer to depreciation reserve ...	81,000 0 0		
Supervision and local administration	37,716 11 9		
		882,495 15 10	791,942
„ ELECTRICITY PURCHASED IN BULK ...		6,297 6 11	5,642
„ TRANSMISSION:			
Operating expenses	16,722 5 3		
Maintenance and repair	44,881 18 7		
Transfer to depreciation reserve ...	87,000 0 0		
Supervision and local administration	24,163 17 3		
		172,768 1 1	154,699
„ DISTRIBUTION:			
Operating expenses	208,801 8 0		
Maintenance and repair	107,551 1 3		
Transfer to depreciation reserve ...	129,000 0 0		
Supervision and local administration	218,041 15 11		
		663,394 5 2	687,439
„ GENERAL ADMINISTRATION:			
Board, Secretariat and Consultants ...	34,035 1 10		
Engineering	53,041 7 7		
Accounting	50,992 2 10		
Audit fee	1,000 0 0		
Sales promotion and publicity ...	27,097 19 2		
General expenses	51,095 16 7		
Transfer to depreciation reserve—general assets	3,000 0 0		
	220,262 8 0		
Less: apportionment charged to other accounts and to capital works ...	8,428 0 0		
		211,834 8 0	206,386
„ Provision for bad debts		1,000 0 0	3,000
„ Depreciation of stocks of material		9,905 6 4	1,350
„ Balance, carried to Profit and Loss Account ...		1,128,242 10 8	627,442
		£3,075,937 14 0	£2,477,900

THE YEAR ENDED 31st MARCH, 1946.

Cr.

		£ s. d.	£ s. d.	Year 1944/45 £
By Charges for electricity, etc.:				
General consumers ...	...	2,914,119 3 8		
Public lighting ...	...	... 97,365 1 7		
Meter and other rents	...	... 50,034 2 5		
			3,061,518 7 8	2,458,411
„ Miscellaneous revenue ...	...	... ...	14,419 6 4	19,489
			£3,075,937 14 0	£2,477,900

No. 4.
Dr.

ELECTRICITY PROFIT AND LOSS ACCOUNT

	£ s. d.	£ s. d.	Year 1944/45 £
To Interest payable to the Minister for Finance	649,508 2 3		
„ Interest on loans and loan-stocks of acquired undertakings	12,542 13 3		
„ Other interest	235,229 3 3		
	897,279 18 9		
Less: apportionment charged to other accounts and to capital works ...	12,050 0 0		
		885,229 18 9	858,427
„ Loan-stock management charges		76 0 4	98
„ Gross contributions to loan-stock sinking funds of acquired undertakings		16,219 11 7	16,421
„ Reserves, being the amount of capital repaid or provided for repayment in respect of advances from the Minister for Finance	84,756 12 11		
acquired undertakings	477 4 1		
		85,233 17 0	80,365
„ Premium at which loan-stock was redeemed		2,482 9 11	1,212
„ Balance carried down		146,876 7 5	—
		£1,136,118 5 0	£956,523
To Balance, brought down		—	322,764
„ 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
„ Balance, carried to Net Revenue Account		145,287 6 11	—
		£146,876 7 5	£324,353

No. 4A.
Dr.

ELECTRICITY NET REVENUE ACCOUNT

	£ s. d.	Year 1944/45 £
To Balance transferred from Profit and Loss Account ...	—	324,353
„ Balance, carried down	152,017 3 3	—
	£152,017 3 3	£324,353
To Balance, brought down	—	320,145
„ Balance, brought forward from last year's account ...	539,539 6 7	219,394
	£539,539 6 7	£539,539
To Balance, brought down	£387,522 3 4	

FOR THE YEAR ENDED 31st MARCH, 1946.

Cr.

	£ s. d.	Year 1944/45 £
By Balance transferred from Revenue Account	1,128,242 10 8	627,442
„ Loan-stock sinking funds' investment income	6,206 7 7	5,770
„ Interest receivable	1,669 6 9	547
„ Balance, carried down	—	322,764
	£1,136,118 5 0	£956,523
„ Balance, brought down	146,876 7 5	—
„ Balance, carried to Net Revenue Account	—	324,353
	£146,876 7 5	£324,353

FOR THE YEAR ENDED 31st MARCH, 1946.

Cr.

	£ s. d.	£ s. d.	Year 1944/45 £
By Balance transferred from Profit and Loss Account		145,287 6 11	—
„ Installations trading profit	4,244 5 6		
„ Merchandise trading profit	2,485 10 10		
		6,729 16 4	4,208
„ Balance, carried down		—	320,145
		£152,017 3 3	£324,353
By Balance brought down		152,017 3 3	—
„ Balance, carried down		387,522 3 4	539,539
		£539,539 6 7	£539,539

No. 5. ELECTRICITY CAPITAL ACCOUNT FOR

Dr.

	Total to 31st March, 1945 less— amounts written off	Expenditure during year to 31st March, 1946 less— amounts written off	Total to 31st March, 1946 less— amounts written off
	£ s. d.	£ s. d.	£ s. d.
To GENERATION :			
physical assets ...	7,376,398 17 0	187,676 0 4	7,564,074 17 4
„ TRANSMISSION :			
physical assets ...	3,630,160 16 2	108,229 11 2	3,738,390 7 4
„ DISTRIBUTION :			
(*a*) physical assets ...	4,396,319 4 10	68,373 12 3	4,464,692 17 1
(*b*) other capital expenditure	583,148 2 6	8,165 0 0	591,313 2 6
„ GENERAL :			
(*a*) physical assets ...	378,319 5 1	3,899 0 4	382,218 5 5
(*b*) other capital expenditure	309,399 16 10	(—) 1,204 16 10	308,195 0 0
	£16,673,746 2 5	£375,138 7 3	17,048,884 9 8
„ NON-CLASSIFIED EXPENDITURE :			
New works in progress			538,295 2 6
		TOTAL ...	17,587,179 12 2
			£17,587,179 12 2

THE YEAR ENDED 31st MARCH, 1946.

Cr.

	Total Receipts to 31st March, 1945 less— redemptions	Redemptions during year to 31st March, 1946 less— receipts	Total Receipts to 31st March, 1946 less— redemptions
	£ s. d.	£ s. d.	£ s. d.
By Local Authority Undertakings :			
Loans and loan-stocks	79,251 6 8	25,191 18 4	54,059 8 4
„ 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 ...	13,032,279 1 5	84,756 12 11	12,947,522 8 6
Total ...	£13,111,530 8 1	£109,948 11 3	£13,001,581 16 10
By Balance			4,585,597 15 4
			£17,587,179 12 2

No. 6. ELECTRICITY BALANCE SHEET

Dr.

LIABILITIES.	£	s.	d.	£	s.	d.	31/3/1945 £
To Receipts, as per Capital Account				13,001,581	16	10	13,111,530
„ Sundry Creditors				504,059	15	2	342,400
„ Loans under the Electricity Supply Board (Superannuation) Act, 1942 from the Trustees of							
General Employees Superannuation Fund	145,400	0	0				
Manual Workers Superannuation Fund	131,100	0	0				
				276,500	0	0	173,000
„ Amount reserved in respect of sinking funds for loan-stocks of acquired undertakings				10,850	11	10	19,346
„ 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				5,914,095	9	7	5,301,461
„ Capital Assets Adjustment Reserve representing surplus arising from re-valuation ...				270,297	5	4	270,297
	£	s.	d.				
„ Reserves: Amount provided by acquired undertakings	77,897	14	4				
Other reserves and provisions	27,606	15	5				
				105,504	9	9	101,122
				£20,082,889	8	6	£19,319,156

AS AT 31st MARCH, 1946.

Cr.

ASSETS.	£ s. d.		31/3/1945 £
By CAPITAL ASSETS, as per CAPITAL ACCOUNT		17,587,179 12 2	17,169,443
„ STOCKS ON HAND AND IN TRANSIT		878,620 4 1	743,966
„ COST VALUE OF INSTALLATIONS WORK AND SALES FOR WHICH CREDIT HAS NOT BEEN TAKEN		41,029 13 0	20,138
„ SUNDRY DEBTORS, after providing for bad and doubtful debts		674,323 0 1	527,717
„ SHANNON FISHERIES, temporary advances		18,078 17 8	5,446
„ CASH IN HAND AND WITH BANKS		485,285 6 4	293,561
„ SINKING FUNDS (held by local authorities) for loan-stocks :	£ s. d.		
Investments (at cost) ...	8,990 2 10		
Cash not invested ...	1,860 9 0		
		10,850 11 10	19,346
„ DEFICIENCY, as per NET REVENUE ACCOUNT ...		387,522 3 4	539,539
		£20,082,889 8 6	£19,319,156

No. 7. SHANNON FISHERIES TRADING ACCOUNT

Dr.

	£ s. d.	Year 1944/45 £
To Operation, maintenance and repair	5,769 3 9	7,030
„ Cost of fish purchased	140 7 6	207
„ Fishery rates	3,451 9 8	2,683
„ General management and overhead expenses	1,540 3 0	1,509
„ Transfer to depreciation reserve	776 0 0	—
„ Balance, carried to Profit and Loss Account ...	—	4,312
	£11,677 3 11	£15,741

No. 8. SHANNON FISHERIES PROFIT AND LOSS ACCOUNT

Dr.

	£ s. d.	£ s. d.	Year 1944/45 £
To Balance, brought from Trading Account		3,158 18 4	
„ Interest:			
Payable to the Minister for Finance ...	8,759 4 7		—
Apportioned in respect of temporary advances from Electricity Funds ...	200 0 0		
		8,959 4 7	8,745
„ Reserve, being amount of capital repaid in respect of advances from Minister for Finance		1,143 0 5	1,007
		£13,261 3 4	£9,752
To Balance, brought down		13,261 3 4	5,440
To Balance, brought forward from last year's account ...		36,816 7 2	31,376
		£50,077 10 6	£36,816
To Balance, brought down		£50,077 10 6	

FOR THE YEAR ENDED 31st MARCH, 1946.

Cr.

	£ s. d.	Year 1944/45 £
By Sales of fish, letting of fishing rights and miscellaneous receipts	8,518 5 7	15,741
„ Balance, carried to Profit and Loss Account	3,158 18 4	—
	£11,677 3 11	£15,741

FOR THE YEAR ENDED 31st MARCH, 1946.

Cr.

	£ s. d.	Year 1944/45 £
By Balance, brought from Trading Account	—	4,312
„ Balance, carried down	13,261 3 4	5,440
	£13,261 3 4	£9,752
By Balance, carried down	50,077 10 6	36,816
	£50,077 10 6	£36,816

No. 9.

SHANNON FISHERIES CAPITAL ACCOUNT

Dr.

	Total to 31st March, 1945	Expenditure during year to 31st March, 1946	Total to 31st March, 1946
	£ s. d.	£ s. d.	£ s. d.
To Fishery rights and fisheries ...	92,783 18 1	568 4 1	93,352 2 2
„ Works to preserve fisheries ...	33,337 13 2	—	33,337 13 2
„ Other capital expenditure ...	21,049 15 0	40 19 0	21,090 14 0
	£147,171 6 3	£609 3 1	£147,780 9 4
„ Balance			26,828 19 8
			£174,609 9 0

No. 10.

SHANNON FISHERIES BALANCE SHEET

Dr.

LIABILITIES.		31/3/1945
	£ s. d.	£
To Receipts, as per Capital Acccount	174,609 9 0	175,752
„ Electricity Funds, temporary advances	18,078 17 8	5,447
„ Amount reserved in respect of capital loans repaid and for depreciation and retirement of assets	6,166 11 0	4,248
	£198,854 17 8	£185,447

FOR THE YEAR ENDED 31st MARCH, 1946.

Cr.

	Total Receipts to 31st March, 1945 less redemptions	Redemptions during year to 31st March, 1946	Total Receipts to 31st March, 1946 less redemptions
	£ s. d.	£ s. d.	£ s. d.
By Minister for Finance :			
Advances under the Shannon Fisheries Act, 1935	175,752 9 5	1,143 0 5	174,609 9 0
			£174,609 9 0

AS AT 31st MARCH, 1946.

Cr.

			31/3/1945
ASSETS.			
	£ s. d.		£
By Capital assets, as per Capital Account	147,780 9 4		147,259
,, Stock of material	928 4 8		1,099
,, Sundry debtors	66 1 3		139
,, Cash in hand and with Bank	2 11 11		134
,, Deficiency, as per Profit and Loss Account	50,077 10 6		36,816
	£198,854 17 8		£185,447

			Total Receipts to 31st March, 1946
UNDER ELECTRICITY ACTS.			
Local Authority Undertakings :			£ s. d.
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—			
	£	s. d.	
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, 1934 and 1941 and by the Liffey Reservoir Act, 1936 ...	5,354,881	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	6,030,065	19 11	13,444,635 18 3
			£14,200,657 2 6
UNDER SHANNON FISHERIES ACTS.			
Minister for Finance :			
Advances—			
under the Shannon Fisheries Act, 1935			180,000 0 0
			£14,380,657 2 6

REDEMPTION THEREOF TO THE 31st MARCH, 1946.

Redeemed			Balance of Capital Receipts Outstanding at 31st March, 1946
Total to 31st March, 1945	During year to 31st March, 1946	Total to 31st March, 1946	
£ s. d.	£ s. d.	£ s. d.	£ s. d.
661,704 0 9	25,191 18 4	686,895 19 1	54,059 8 4
15,065 16 10	—	15,065 16 10	—
412,356 16 10	84,756 12 11	497,113 9 9	12,947,522 8 6
£1,089,126 14 5	£109,948 11 3	£1,199,075 5 8	£13,001,581 16 10
4,247 10 7	1,143 0 5	5,390 11 0	174,609 9 0
£1,093,374 5 0	£111,091 11 8	£1,204,465 16 8	£13,176,191 5 10

No. 12.
Dr.

GENERAL BALANCE SHEET

LIABILITIES.	£ s. d.	£ s. d.	31/3/1945 £
To Receipts :			
per Electricity Capital Account	13,001,581 16 10		
per Shannon Fisheries Capital Account	174,609 9 0		
		13,176,191 5 10	13,287,283
„ Sundry Creditors		504,059 15 2	342,400
„ Loans under the Electricity Supply Board (Superannuation) Act, 1942 from the Trustees of			
General Employees Superannuation Fund	£ s. d. 145,400 0 0		
Manual Workers Superannuation Fund	131,100 0 0		
		276,500 0 0	173,000
„ Amount reserved in respect of sinking funds for loan-stocks of acquired undertakings		10,850 11 10	19,346
„ 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		5,920,262 0 7	5,305,708
„ Capital Assets Adjustment Reserve representing surplus arising from re-valuation ...		270,297 5 4	270,297
„ Reserves : Amount provided by	£ s. d.		
acquired undertakings...	77,897 14 4		
Other reserves and provisions	27,606 15 5		
		105,504 9 9	101,122
		£20,263,665 8 6	£19,499,156

R. F. BROWNE, *Chairman.*

PATRICK J. DEMPSEY, *Secretary.*

AS AT 31st MARCH, 1946.

Cr.

ASSETS.	£ s. d.	£ s. d.	31/3/1945 £
By Capital Assets:			
per Electricity Capital Account	17,587,179 12 2		
per Shannon Fisheries Capital Account	147,780 9 4		
		17,734,960 1 6	17,316,701
„ Stocks on Hand and in Transit		879,548 8 9	745,064
„ Cost Value of Installations Work and Sales for which Credit has not been taken ...		41,029 13 0	20,138
„ Sundry Debtors, after providing for bad and doubtful debts		674,389 1 4	527,856
„ Cash in Hand and with Banks		485,287 18 3	293,695
„ Sinking Funds (held by local authorities) for loan-stocks:	£ s. d.		
Investments (at cost) ...	8,990 2 10		
Cash not invested ...	1,860 9 0		
		10,850 11 10	19,346
„ Deficiency:	£ s. d.		
per Electricity Net Revenue Account	387,522 3 4		
per Shannon Fisheries Profit and Loss Account ...	50,077 10 6		
		437,599 13 10	576,356
		£20,263,665 8 6	£19,499,156

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 undermentioned qualifications, that the Balance Sheet as at the 31st March, 1946, 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.

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, 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 sale of electricity, and this amount has been charged to Revenue Account.

Depreciation has been charged in the Revenue Account, on the Capital Assets referred to as physical assets in the Capital Account, on the same basis as heretofore.

KENNEDY, CROWLEY & CO.,
Auditors.

4 and 5 WESTMORELAND STREET,
DUBLIN, 1*st July*, 1946.

Alex. Thom & Co., Ltd