EIGHTEENTH ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

(Including Report on Shannon Fisheries.)

DUBLIN
1944-45

EIGHTEENTH

ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

Year ended 31st March, 1945.

(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, 1945.

(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.

As required by the Electricity (Supply) Acts, the Board presents the Annual Report and Accounts for the year ended 31st March, 1945.

The limited quantity and poor quality of available coal, combined with the effects of an unusually dry spring and summer, confronted the Board with supply conditions of great difficulty during the first six months. In consequence, a relatively severe rationing of all classes of consumption was inevitable throughout the summer. Later in the year the situation eased through heavy rainfall, and water flow conditions were well above average. The output of electricity, as compared with the previous year, was reduced from 443 million units to 406 million units. The hydro-electric stations generated 282 million units. The plant on the River Liffey was placed in temporary commission and contributed 15 million units—about half of its estimated full annual production.

In view of the amount of the deficiency for the year ended 31st March, 1944, and the indication, from the Board's estimates that, with increasing expenditure on coal and maintenance, the deficiency in the present year would be substantially higher, it was decided to press again the application for sanction to an increase in prices. Sanction to an increase

in charges had not been received by the close of the year. The following are the summarised figures for income and expenditure for the year :—

	Year ended 31st March, 1945.	Year ended 31st March, 1944.
	£	£
Gross Revenue	2,477,901	2,433,803
Working expenditure (including depreciation)	1,850,459	1,705,076
Balance carried to Profit and Loss Account ...	627,442	728,727
Interest, repayment of advances and discharge of capital liabilities acquired with local authority undertakings	951,795	924,847
Deficit ...	324,353	196,120

The accumulated deficiency on the Electricity Net Revenue Account was £539,539 at the 31st March, 1945.

Electricity sales amounted to 319,010,297 units as compared with 346,938,333 units in the preceding year. The revenue from sales was £2,458,411 as compared with £2,426,082. Although sales had decreased the revenue was higher by reason of the alteration in prices at the close of the calendar year 1943.

The depreciation accrued during the year amounted to £315,000 and has been charged in the Revenue Account as in previous years. Including this sum, the total amount made available up to 31st March, 1945, towards replacement of wasting capital assets was £4,683,630.

Capital repayments to the Minister for Finance debited to the Profit and Loss Account amounted to £79,689, and the repayment of capital liabilities assumed from local authorities to £12,637 at the 31st March, 1945. The total of the capital redeemed by repayments to the Minister for Finance was £412,357, and of the liabilities assumed from Local Authorities £676,770 had been repaid.

The gross amount of capital invested in additional plant placed in commission during the year, including portion of the Liffey works, was £980,616 as compared with £470,888 in the preceding year. This expenditure includes the following :—

	£
Generation	809,251
Transmission	62,291
Distribution	94,943
Equipment, Transport, etc.	14,131
	£980,616

The aggregate capital expenditure at 31st March, 1945, was £18,108,332.

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 sixteen years 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
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

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 approximately amongst the various categories of supply :—

Class of Supply	Units Sold		Increase or Decrease	Percentage Increase or Decrease
	Year Ending 31st March, 1945	Year Ending 31st March, 1944		
Domestic	116,342,524	129,585,185	— 13,242,661	—10·2
General Lighting	22,023,397	23,841,809	— 1,818,412	— 7·6
General Heating, Cooking and Water Heating ...	36,338,346	39,233,000	— 2,894,654	— 7·4
Motive Power	128,075,459	135,628,493	— 7,553,034	— 5·6
Public Lighting	8,141,638	7,655,079	486,559	6·4
Traction	4,464,851	7,139,035	— 2,674,184	—37·5
Miscellaneous	3,624,082	3,855,732	— 231,650	— 6·0
Totals ...	319,010,297	346,938,333	— 27,928,036	— 8·0

RESTRICITONS ON ELECTRICITY SUPPLY.

The restrictions on electricity supply in force during the year are set out in Appendix II.

SALE OF APPLIANCES.

Consequent on the limitation in sales of appliances, there was a decrease in the turnover, which amounted to £24,778 as compared with £37,643 for the previous year. The rate of gross profit on sales was 23·6%. The Merchandise Trading Account showed a loss of £250, 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 £62,987 as compared with £74,561 for the previous year. The rate of gross profit was 28·4%. Having debited to the Installations Trading Account overhead expenses and interest on working capital, there was a net profit of £4,457.

ELECTRICITY (SUPPLY) (AMENDMENT) ACT, 1945.

On 31st March, 1945, the Electricity (Supply) (Amendment) Act, 1945, was enacted. This Act amends and extends the Electricity (Supply) Acts, 1927 to 1942. In particular it authorises and provides for the preparation and execution by the Board of schemes for the generation or electricity by hydraulic power derived from suitable rivers (in addition to the Shannon and the Liffey), the acquisition and management by the Board of fisheries and fishing rights in such rivers, and the provision of capital, including state subsidies, for the electrification of rural areas. It is also provided that the Minister may approve, by Order, hydro-electric schemes submitted by the Board.

RURAL ELECTRIFICATION.

The Report on Rural Electrification prepared by the Board at the request of the Government was published in August, 1944, as a White Paper. Financial provision was made to enable the Board to undertake the extension of electricity supply to rural areas up to a total expenditure of £5,000,000, of which half will be provided by way of State subsidy.

Progress was made in planning the organisation of supply and construction.

GENERATION.

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

	Outputs and Peak Loads		Stations	
Year ended on 31st March	Main System Stations	Generation in KWh.	Maximum daily output in KWh.	Maximum load in KW.
1945	Ardnacrusha ...	267,399,400		
	Liffey	15,003,200		
	Pigeon House ...	122,577,800		
	Cork	19,700		
		404,932,100	1,957,900	123,700
1944	Ardnacrusha ...	274,902,800		
	Liffey	2,271,100		
	Pigeon House ...	164,474,400		
	Cork	24,900		
	Letterkenny ...	4,200		
		441,677,400	1,884,000	119,200
Increase or decrease during year ended 31st March, 1945 ...		(—)36,745,300	(+)73,900	(+)4,500

The total output for all Stations showed a decrease of 8·3%. For the year, the average load was 46,225 KW., and the load factor, on the basis of units generated, was 37.4% compared with 42.2% 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 1,341,300 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 :—

(i) Duration of load curve—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 curves—main system ... ... Appendix VI.
(v) Capacity of the Board's generating stations ... ... Appendix VII.
(vi) Weekly summary of operating conditions ... ... Appendix VIII.
(vii) Graph showing annual output from 1st April, 1928, to 31st March, 1945 ... ... Appendix XIII.

GENERATING STATIONS.

(a) Peat Fuel :

Contracts were placed for the supply and erection of a 12,500 KW. turbo-alternator set and two boilers of 125,000 lbs. steam per hour for the Portarlington generating station.

An investigation into the possibility of providing additional steam stations using peat as fuel was carried out in conjunction with the Turf Development Board, Ltd., and a suitable location for a second station has been tentatively decided upon.

(b) Pigeon House :

To improve the boiler capacity in the Pigeon House station a contract was entered into for the installation of two boiler units (each 100,000 lbs. steam per hour).

(c) Liffey :

The first of the two main generating sets in the Pollaphouca station was placed in temporary commission in December, 1944. The erection of the second set proceeded as far as the deliveries of material allowed.

The Golden Falls station continued in temporary commission.

Both the Pollaphouca and Golden Falls stations are working with improvised switch and control gear pending delivery of the complete equipment.

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 192·4 cbm/sec., and was above the long term mean. Low flows began in February, and apart from a slight recovery in July continued until the end of August. The winter flows from the beginning of September until early in March (1945) were well above the average. The water used for power generation amounted to 73·4% of the total inflow, excluding river compensation water.

(The average inflow to the catchment at Killaloe for the ealendar year 1944 was 177·4 cbm/sec.)

The important hydrometric figures were as follows :—

Total average rainfall in Shannon catchment ...	44·6 inches.
Average inflow to Shannon catchment	192·4 cbm/sec.
Average water used at Ardnacrusha Power Station ...	134·5 cbm/sec.
Average water used per unit generated	15·8 cbm.
Maximum level reached in Lough Derg	33·64 mtrs. O.D.
Minimum level reached in Lough Derg	33·04 mtrs. O.D.
Average available head at Ardnacrusha Power Station ...	28·40 mtrs. O.D.
Maximum available head at Ardnacrusha Power Station	30·26 mtrs. O.D.
Minimum available head at Ardnacrusha Power Station	24·79 mtrs. O.D.

RIVER LIFFEY :

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

(i) Daily water level of Pollaphouca Reservoir.
(ii) Total discharge in river below Golden Falls.
(iii) Draw-off by Dublin Corporation Water Supply.

The draw-off of water from Pollaphouca Reservoir by the Dublin Corporation for the City water supply averaged 6·0 million gallons per day (0·32 cbm/sec.) over the year.

The total average inflow to Pollaphouca Reservoir was 8·75 cbm/sec.

(The total average inflow for the calendar year was 8·71 cbm/sec).

TRANSMISSION AND DISTRIBUTION SYSTEMS.

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

	Miles.
(1) Low tension overhead mains	33·1
(2) Low tension overhead mains (reconstructed or strengthened)	4.0
(3) Low tension underground mains	3.6
(4) 5kV. underground cables	1.07
(5) 10kV. underground cables	1·0
(6) 10kV overhead transmission lines	4.6
(7) 38 kV. overhead transmission lines	24.6

A 38kV. transformer station operated at 10 kV. was placed in commission at Ballymun, Dublin. The 38 kV. station at Dundalk was replaced by a larger station.

Sixty-eight 10 kV. transformer stations were placed in commission, and seven were retired from service.

In connection with the projected development on the River Erne, work was commenced on the extension of the 30kV. network to Bundoran and Ballyshannon.

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

WATER POWER RESPURCES AND HYDROMETRIC SURVEY.

Schemes for the hydro-electric development of the Lower River Erne and the Lower River Liffey were completed, and have been prepared for submission to the Minister in accordance with the Electricity (Supply) (Amendment) Act, 1945.

The Board continued the investigation of water power resources. The preliminary investigations for the Torc Waterfall, Co. Kerry, and the River Lee, Co. Cork, were completed during the year. Surveys were completed for the Cummeragh River, Co. Kerry, and the Clady River, Co. Donegal.

Work proceeded on the collection of hydrometric data (a) on the Shannon and Upper Liffey for river control purposes, and (b) on various rivers throughout the country. Sites have been selected and gauging stations have been erected, or are in course of erection, on six additional rivers, bringing the total number of rivers now under hydrometric survey to fifteen. These rivers are :—

Erne.
Lower Liffey.
Boyne.
Lee.
Barrow.
Cummeragh.
Clady.
Avonmore.
Caragh.
Lackagh.
Ballysodare.
Nore.
Slaney.
Two streams on Mangerton Mountain.

PERMITTED UNDERTAKINGS.

At the 31st March, 1945, there were 86 supply undertakers operating under permit from the Board. During the year one new permit was issued, and one undertaking ceased to supply. 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 868, and in the Manual Workers Superannuation Scheme—1,237. Ten members were in receipt of pensions from the Funds.

A total sum of £173,000 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, 1945, 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, 1945, was 2,444, including 98 with the Defence Forces and seconded to Government Departments.

The Board once more desires to take this opportunity of expressing its appreciation of the willing and competent manner in which the members of its staff have 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.
3rd July, 1945.

REPORT

ON THE

SHANNON FISHERIES.

60-62 UPPER MOUNT STREET,
DUBLIN.

TO THE MINISTER FOR INDUSTRY AND COMMERCE.

As required by the Shannon Fisheries Act, 1935, the Board presents the Annual Report and Accounts for the year ended the 31st March, 1945.

By reason of the poor run of salmon and eels, the proceeds from the sale of fish and the letting of fishing rights decreased to £15,741 as compared with £20,344 in the previous year. The deficiency on the Profit and Loss Account, having charged interest and sinking fund on the capital invested in the fisheries, was £5,440. The deficiency in the previous year was £2,392.

SALMON FISHERIES.

The income realised from the sale of fish taken at the Thomond weir, and the four stake weirs operated in the Shannon estuary, amounted to £6,862 as compared with £10,537 in the preceding year. The price obtained for salmon was the same as in the previous year, except for February and March, when it was 2d. per lb. higher.

The fall in the run of salmon and grilse at the Thomond weir is reflected in the following statistical record :

	Year ended 31st March, 1945	Year ended 31st March, 1944.
April	1,067	1,453
May	1,236	986
June	7,315	10,436
July	1,324	4,441
—	—	—
January	—	133
February	13	291
March	366	604

(Abnormal flood conditions made it impracticable to maintain these records in January and during the greater part of February).

The run of salmon at the Thomond weir was 36% below that of the preceding year. The average weight of salmon fell from 13.6 lbs. to 12 lbs. At the stake weirs the average weight increased from 11.5 lbs. to 12 lbs.

The run of grilse decreased from 15,070 to 9,224, a drop of 39%. The average weight of grilse taken was 6 lbs. at the Thomond weir, and 6.4 lbs. in the stake weirs.

EEL FISHERIES.

The weights of eels taken at the weirs at Athlone, Castleconnell and Killaloe for the season and for the previous season were as follows :—

	Year ending 31st March, 1945.	Year ending 31st March, 1944.
Athlone	11,508 lbs.	8,721 lbs.
Castleconnell	4,546 „	1,512 „
Killaloe	15,514 „	22,507 „

The Ballymahon eel weir on the River Inny was not worked.

The proceeds from the sale of eels amounted to £8,319 as compared with £9,370 in the previous year. The price obtained was higher and offset, to some extent, the drop in the catch.

PROTECTION OF FISHERIES.

Every effort is being made to secure adequate protection for the fisheries and provision was made in the Electricity (Supply) (Amendment) Act, 1945, to confer fuller powers on the Board's waterkeepers.

The Board is concerned in particular that large quantities of immature eels are being caught on long lines for export, notwithstanding the bye-law prohibiting the taking of such eels.

SALMON ROD FISHERIES.

The revenue derived from the letting of rod fishing was £214 as compared with £201 in the previous year. Owing to the difficulties in travelling, the number of anglers was small.

OYSTER FISHERIES.

The oyster fisheries remained closed owing to the emergency conditions.

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

PATRICK J. DEMPSEY, Secretary.

3rd July, 1945.

LIST OF APPENDICES.

Appendix.

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

II.—Rationing.

III.—Duration of load, main system generation.

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

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

VI.—Typical daily 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 Pollaphouca for the year.

XI.—Transmission and distribution systems in commission.

XII.—Particulars of authorised and permitted undertakings providing supply at 31st March, 1945

XIII.—Units generated from 1st April, 1928, to 31st March, 1945.

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	
		1944	1945	1944	1945
Dublin–Rathmines–Pembroke	475,594	79,374	81,457	70,638*	71,155
Terenure-Kimmage ...		2,931	2,964		
Crumlin		7,971	8,299		
Rathfarnham		917	937		
Templeogue		181	184		
Firhouse		30	31		
Woodtown		1	1		
TOTALS ...	475,594	91,405	93,873	70,638	71,155

* Revised figure.

CORK No. 1 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Cork City	99,011	16,008	16,453	18,903	18,920
TOTALS ...	99,011	16,008	16,453	18,903	18,920

ATHLONE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Ahascragh	269	46	48	14	4
Ardagh (Co. Longford) ...	—	22	24	1	1
Athleague	208	34	33	15	15
Athlone	7,257	1,580	1,624	2,229	2,341
Ballinagar	—	4	4	Nil	Nil
Ballinasloe	5,834	576	585	445	445
Ballygar	335	83	84	32	32
Ballymahon	643	130	132	52	52
Banagher	720	111	113	109	109
Birr	—	3	3	54	54
Borrisokane	551	165	166	5	5
Clara	1,590	329	393	372	372
Cloghan	188	29	30	8	8
Daingean (or Philipstown)	518	68	68	14	14
Edgeworthstown (or Mostrim)	515	110	112	43	43
Eyrecourt	323	40	39	Nil	Nil
Ferbane	301	78	78	2	2
Granard	1,236	199	197	27	27
Kilbeggan	593	127	128	10	10
Kilcormac (or Frankford)	448	60	70	22	38
Longford	3,807	727	724	103	103
Lorrha	98	27	27	Nil	Nil
Moate	1,326	181	187	2	2
Mullingar	5,237	1001	1,023	556	556
Newtownforbes	369	41	42	45	45
Portumna	—	3	3	345	345
Roscommon	2,040	420	432	71	71
Tullamore	5,135	986	1,004	1,787	1,773
TOTALS ...	39,541	7,180	7,373	6,363	6,467

DUBLIN No. 2 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Baldoyle	765	204	206	26	26
Howth and Sutton ...	4,832	1,138	1,160	142	110
Raheny	—	262	267	10	10
Coolock	349	58	80	2	2
Artane	996	65	66	75	75
Santry	116	89	91	69	65
Finglas	1,383	320	325	209	209
Chapelizod	—	322	335	55	55
Knockmaroon	—	8	14	1	1
Lucan	867	342	362	268	268
Ballydowd	—	20	20	Nil	Nil
Palmerstown	208	33	33	56	56
Bluebell	399	74	80	92	92
The Ranch	—	139	145	98	98
Blackrock and Monkstown	54,129	3,338	3,419	855	853
Cabinteely		76	104	8	8
Carrickmines		81	84	6	6
Dalkey		836	911	69	70
Dundrum—Sandyford ...		2,040	2,090	236	261
Dun Laoghaire		3,734	3,826	900	878
Foxrock		363	390	38	38
Killiney—Ballybrack ...		425	436	98	98
Kill-o'-the-Grange ...		105	140	11	11
Stillorgan		223	232	154	154
Shankill—Loughlinstown ...	2,332	374	381	12	12
Bray	10,347	2,348	2,394	1,730	1,701
Greystones	1,535	568	573	310	310
Ashford	—	82	83	35	35
Balbriggan	2,434	402	414	174	174
Balgriffin	—	60	61	11	11
Ballymore Eustace ...	338	87	93	124	115
Balrothery	—	11	11	Nil	Nil
Blanchardstown	417	162	164	34	34
Blessington	289	109	107	59	71
Castleknock	1,789	149	152	49	84

DUBLIN No. 2 DISTRICT—*continued.*

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Celbridge	627	172	185	88	88
Clane	145	31	31	Nil	Nil
Clondalkin	967	242	258	3,958	3,973
Clonee	112	22	22	7	7
Clonsilla—Porterstown ...	819	108	116	32	32
Delgany—Killincarrig ...	1,060	215	218	8	8
Donabate	186	154	160	32	32
Dunboyne	290	58	61	44	44
Enniskerry	—	10	10	Nil	Nil
Glenealy	—	10	29	75	75
Kilcock	475	81	85	34	35
Kilcoole	303	106	108	Nil	Nil
Kill and Johnstown ...	95	50	50	Nil	Nil
Kilmacanogue	—	30	31	Nil	Nil
Kiltiernan—Scalp ...	713	108	113	9	9
Kingswood	—	19	18	Nil	Nil
Kinsaley	—	16	19	Nil	Nil
Leixlip	571	201	204	127	127
Lusk	305	89	91	4	4
Malahide	1,259	361	380	31	31
Maynooth	632	125	142	137	137
Naas	3,290	597	603	557	557
Newtownmountkennedy ...	208	158	157	11	11
Portmarnock	516	133	133	6	6
Poulaphouca	—	9	10	3	3
Rathcoole	223	71	72	3	4
Rathdrum	504	188	195	296	296
Rathnew	547	97	97	57	57
Rockbrook	—	23	24	Nil	Nil
Rush	1,651	363	374	40	40
Saggart	116	43	44	1,573	1,573
Sallins and Clongowes ...	276	41	41	339	339
Skerries	2,134	583	587	79	80
Stepaside	102	19	18	Nil	Nil
Swords	838	270	271	198	198
Tallaght	611	116	116	429	429
Turnapin	238	Nil	24	Nil	Nil
Wicklow	3,183	504	537	328	329
TOTALS ...	106,521	24,070	24,883	14,521	14,515

CORK No. 2 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Ballinacurra	403	83	82	172	187
Ballincollig	400	40	58	Nil	Nil
Ballineen	272	61	62	72	147
Bandon	3,500	791	798	514	514
Bantry	2,643	449	453	127	162
Bishopstown	97	55	59	97	97
Blarney	723	187	190	74	74
Buttevant	881	190	190	61	61
Carrigaline	315	93	91	15	15
Carrigtwohill	402	50	50	Nil	Nil
Castlelyons	113	25	25	110	110
Castlemartyr	346	61	62	8	8
Castletownroche	443	72	74	12	12
Castletownsend	147	Nil	22	Nil	Nil
Clonakilty	2,961	525	529	495	520
Cloyne	684	90	92	110	110
Cobh	6,272	931	955	1,145	1,145
Courtmacsherry	221	39	40	4	4
Crookstown	—	20	21	164	164
Crosshaven	724	154	154	60	60
Doneraile	740	159	164	31	31
Drimoleague	344	59	60	Nil	Nil
Drinagh	—	22	22	359	359
Drommahane	96	17	17	Nil	Nil
Dunmanway	1,561	261	268	158	158
Enniskeane	162	34	35	2	2
Fermoy	4,123	556	570	385	385
Glandore	124	16	17	Nil	Nil
Glanmire	213	77	78	Nil	Nil
Glanworth	261	49	49	Nil	Nil
Glounthaune	—	11	11	Nil	Nil
Haulbowline	—	16	19	2,493	2,493
Innishannon	182	29	30	Nil	Nil
Kildorrery	236	57	60	Nil	Nil
Killeagh	235	33	35	Nil	Nil
Kilnap	272	53	55	119	119
Kinsale	2,661	445	441	121	121
Leap	157	33	34	Nil	Nil
Lombardstown	—	8	8	Nil	Nil
Macroom	2,382	455	462	116	116
Mallow	4,948	978	999	226	295
Midleton	2,823	438	465	227	227
Mitchelstown	1,902	472	476	236	236
Mogeely	—	7	7	Nil	Nil
Mount Desart	—	1	1	Nil	Nil
Passage West	2,648	293	299	14	14
Monkstown		150	152	Nil	Nil
Rathcormac	187	27	30	Nil	Nil
Rochestown	—	1	1	6	6
Rostellan	112	Nil	40	Nil	Nil
Skibbereen	2,541	492	504	129	154
Timoleague	248	53	55	Nil	39
Upper Aghada	155	17	20	Nil	Nil
Whitegate	286	72	73	Nil	Nil
Youghal	5,131	630	659	202	202
TOTALS ...	56,277	9,937	10,223	8,064	8,347

DUNDALK DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
An Uaimh (Navan) ...	4,123	841	859	1063	1077
Ardee	2,383	268	276	287	287
Arvagh	525	90	91	11	11
Athboy	520	118	122	85	85
Bailieborough	854	184	189	263	263
Ballinagh	314	45	52	Nil	Nil
Ballybay	1,034	222	223	41	41
Ballyjamesduff	434	99	99	12	12
Belturbet	1,341	209	215	201	201
Bettystown—Laytown-Mornington-Donacarney	258	157	159	46	46
Blackrock (Louth) ...	695	147	154	24	24
Butler's Bridge	96	19	19	Nil	Nil
Carrickmacross	2,095	375	383	161	197
Castleblayney	1,725	335	350	303	371
Cavan	3,393	595	595	256	256
Ceanannus Mór (Kells) ...	2,304	399	397	232	232
Clones	2,400	495	497	104	104
Cootehill	1,593	263	270	157	157
Crossdoney	—	5	4	Nil	Nil
Drogheda	14,494	2,125	2,211	3,244	3,327
Drum	72	14	14	Nil	Nil
Drumcondrath	147	24	26	Nil	Nil
Dundalk	16,214	3,002	3,089	3,733	3,724
Killeshandra	473	94	97	391	391
Kilnaleck	247	15	39	Nil	Nil
Kingscourt	631	115	115	322	322
Monaghan	4,780	623	626	850	850
Newtown	—	1	1	10,588	10,678
Oldcastle	586	147	149	28	28
Shercock	228	58	60	17	73
Trim	1,455	223	228	53	53
Virginia	418	94	94	39	39
TOTALS ...	65,832	11,401	11,703	22,511	22,849

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Adare	497	103	106	171	171
Annacotty	—	25	24	90	90
Ardagh	119	26	28	91	91
Ardnacrusha and Clonlara	249	80	78	354	354
Askeaton	581	107	112	42	42
Ballagh	—	1	1	164	164
Ballingarry (Co. Limerick)	339	65	67	72	72
Ballylanders	193	41	43	15	15
Birdhill	—	13	12	15	15
Broadford (Ráth Luirc) ...	162	21	21	Nil	Nil
Bruff	349	77	77	13	13
Bruree	250	49	47	69	69
Bulgaden	—	2	2	Nil	Nil
Caherconlish	305	31	41	Nil	Nil
Cahir	1,638	348	350	253	253
Cappamore	558	70	73	168	168
Cappawhite	426	50	50	3	3
Cashel	3,028	401	407	166	166
Castleconnell	219	71	72	Nil	Nil
Castlemungret	—	1	1	2,670	2,670
Castletroy	—	29	30	203	203
Castlemahon	72	15	16	93	93
Clarecastle	549	98	100	Nil	Nil
Cloncagh	—	4	4	74	74
Croom	791	102	104	59	59
Doon	478	61	61	24	24
Dromina	109	14	14	20	20
Drumcollogher	457	99	103	20	20
Elton	—	10	10	100	100
Ennis	5,897	1,166	1,185	652	645
Ennistymon	1,264	261	264	156	156
Foynes	—	1	8	Nil	7
Galbally	195	33	32	20	20
Garryspillane	—	3	3	57	57
Hospital	609	110	112	38	38
Herbertstown	85	22	22	136	136
Kilfinane	818	147	147	54	54
Kilkee	1,863	298	308	8	8
Kilkishen	108	18	18	Nil	Nil
Killaloe and Ballina (Tipp.)	1,066	230	232	98	98
Kilmallock	861	253	258	250	250
Kilrush	3,426	494	506	290	290
Knocklong	—	25	26	246	246

LIMERICK DISTRICT—*continued.*

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Lahinch	327	69	69	1	1
Lattin	—	1	1	93	93
Limerick City	43,663	8,544	8,701	7,962	7,961
Limerick Junction ...	206	41	42	35	35
Lisdoonvarna	193	117	117	176	176
Martinstown	—	1	1	Nil	Nil
Milford (Ráth Luirc) ...	161	33	36	222	222
Miltown-Malbay	809	163	164	6	6
Murroe	—	2	2	40	40
Nenagh	4,902	772	783	845	845
Newcastle West	2,943	429	435	214	214
New Inn	117	16	17	96	96
Newmarket-on-Fergus ...	368	86	87	18	18
Newport (Tipp.) ...	494	92	96	138	138
Newtown (Ráth Luirc) ...	106	18	18	87	87
O'Brien's Bridge—Montpelier	277	Nil	24	Nil	Nil
Rathkeale	1,565	256	262	135	135
Ráth Luirc (Charleville) ...	1,625	347	358	279	284
Rineanna and Ballygireen	—	16	17	276	276
Solohead	—	9	9	49	49
Spanish Point	—	4	4	Nil	Nil
Tipperary	5,384	696	716	587	597
Tulla	474	96	96	6	6
TOTALS ...	91,175	16,883	17,230	18,219	18,233

GALWAY DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Athenry	1,048	212	212	78	113
Ballyhaunis	1,160	244	250	49	36
Castlebar	4,826	736	741	391	714
Claremorris	1,132	346	348	244	493
Clarinbridge	123	19	18	Nil	Nil
Galway	18,294	3,203	3,230	1,698	1,696
Gort	1,034	208	212	119	159
Kinvara	420	39	40	Nil	Nil
Loughrea	2,891	311	314	132	157
Newport (Mayo) ...	353	89	93	17	27
Oranmore	184	25	28	Nil	1
Tuam	4,181	808	809	148	148
Westport	3,409	639	651	412	685
TOTALS ...	39,055	6,879	6,946	3,288	4,229

PORTLAOIGHISE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Abbeyleix	664	158	160	36	36
Athy	3,628	655	641	492	492
Ballinakill	338	57	57	2	2
Baltinglass	659	189	188	18	18
Ballybrophy	—	2	2	7	7
Ballymany—Loughbrown ...	—	50	51	32	32
Ballyragget	449	108	106	22	22
Ballyroan	127	19	20	Nil	Nil
Borris-in-Ossory	216	40	41	1	1
Borrisoleigh	544	105	105	34	34
Brannockstown	—	17	17	Nil	Nil
Brownstown	226	154	150	5	10
Callan	1,516	253	254	236	236
Carlow	7,649	1061	1,081	637	639
Castlecomer	809	213	217	1,216	1,256
Castledermot	276	114	119	78	78
Castletown	251	Nil	20	Nil	Nil
Clogh	167	38	37	Nil	Nil
Clonbullogue	79	12	13	Nil	Nil
Curragh Camp	—	1	1	258	258
Donaghmore	87	11	11	Nil	Nil
Droichead Nua (Newbridge)	2,375	606	628	956	955
Dunlavin	332	81	83	9	9
Durrow	462	84	85	6	6
Edenderry	2,093	390	394	259	254
Freshford	456	96	103	105	105
Hacketstown	377	99	95	3	3
Johnstown (Co. Kilkenny)	307	53	53	2	2
Kilcullen	441	114	115	11	11
Kildare	1,758	457	469	145	140
Kilkenny	10,237	1,466	1,483	819	817
Kiltegan	101	24	24	Nil	Nil
Leighlinbridge	425	83	79	109	109
Loughmore	—	14	15	Nil	Nil
Milemill	—	23	22	Nil	Nil
Monasterevan	580	129	130	110	110
Mountmellick	2,314	361	365	111	111
Mountrath	1,116	178	192	15	15
Muine Bheag (Bagenalstown)	1,897	317	322	164	164
Palatine	101	19	19	Nil	Nil
Portarlington and Clonsast	1,851	447	458	1,021	1,016
Portlaoighise	3,396	761	763	779	780
Rathangan	431	68	67	44	44
Rathdowney	825	159	162	9	9
Rathvilly	253	43	41	Nil	Nil
Roscrea	3,060	580	586	604	604
Stradbally	762	125	126	23	23
Talbot's Inch	108	34	33	7	7
Templemore	1,981	310	315	126	126
The Swan	—	26	26	514	557
Thurles	5,648	913	941	390	390
Tullow	1,616	312	317	58	59
Urlingford	528	67	67	7	7
TOTALS ...	63,516	11,696	11,869	9,480	9,554

SLIGO DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Arigna	—	9	8	316	326
Ballaghaderreen	1,122	298	301	88	86
Ballina	5,728	1,266	1,274	557	560
Ballymote	738	164	175	134	134
Boyle	—	1	1	36	36
Carrick-on-Shannon ...	1,015	326	328	87	87
Castlerea	1,313	322	332	168	168
Charlestown and Bellahy ...	773	195	198	20	20
Convoy	369	85	90	719	719
Crocketstown (Ballina Quay)	171	21	23	Nil	Nil
Crossmolina	660	133	135	42	42
Curry	—	16	16	Nil	Nil
Drumsna	122	Nil	9	Nil	Nil
Elphin	548	110	116	3	3
Foxford	805	157	159	253	253
Gurteen	—	36	37	8	8
Inniscrone	399	106	109	Nil	Nil
Jamestown	—	Nil	5	Nil	Nil
Kilkelly	160	50	54	Nil	Nil
Killala	449	63	65	Nil	Nil
Kiltimagh	1,090	220	220	60	60
Leitrim	107	18	23	Nil	Nil
Letterkenny	2,649	494	512	117	127
Lifford	478	132	140	57	57
Loughglynn	114	14	18	Nil	Nil
Mohill	714	178	182	30	30
Sligo	12,565	1,992	2,084	1,425	1,415
Strokestown	628	148	150	32	32
Swinford	1,203	300	301	104	104
Tubbercurry	823	174	175	52	55
TOTALS ...	34,743	7,028	7,240	4,308	4,322

TRALEE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Abbeyfeale	1,122	225	234	55	55
Athea	259	52	56	Nil	Nil
Ballylongford	514	70	72	89	89
Boherbue	242	51	56	99	99
Brosna	332	58	66	182	234
Castleisland	1,325	281	283	206	206
Castlemaine	104	24	24	157	157
Dromtariffe	—	2	2	48	48
Duagh	128	12	13	Nil	Nil
Edenburn	—	1	1	18	18
Glin	516	82	90	73	73
Kanturk	1,555	300	309	393	393
Killarney	5,609	804	837	280	284
Killorglin	775	229	231	80	80
Listowel	3,098	573	593	514	515
Millstreet	975	195	203	130	130
Miltown	311	66	65	16	16
Newmarket	838	171	178	198	198
Newtownsandes	230	36	42	44	44
Rathmore	184	29	29	124	124
Tarbert	315	49	52	32	32
Tralee	10,620	2,108	2,117	1,369	1,344
TOTALS ...	29,052	5,418	5,553	4,107	4,139

WATERFORD DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Arklow	4,680	886	980	621	621
Ballyhale	102	24	24	10	10
Ballypatrick	—	4	4	76	76
Campile	117	12	13	60	60
Cappagh	—	1	1	25	25
Cappoquin	1,038	175	178	59	59
Carnew	516	60	62	10	10
Carrick-on-Suir	4,840	736	743	651	661
Clonmel	9,391	1,010	1,047	744	744
Clonegal	136	Nil	21	Nil	Nil
Dungarvan	5,361	986	1,002	887	895
Dunmore East	308	86	92	5	5
Enniscorthy	5,873	882	912	719	719
Ferns	342	79	79	113	113
Fethard	1,112	215	219	67	67
Gorey	2,323	405	415	413	413
Graiguenamanagh and Tinnahinch	1,125	179	179	109	114
Inistioge	326	44	43	Nil	Nil
Killenaule	511	77	81	322	322
Lismore	1,194	221	227	93	93
New Ross	5,056	754	760	723	690
Newtownbarry and Carrickduff	766	176	186	45	45
Passage East	431	62	64	5	5
Piltown	287	55	58	238	238
Portlaw	847	171	172	813	813
Rosslare Harbour and Kilrane	629	100	101	239	239
Rosslare Strand	189	69	80	47	47
Shillelagh	147	Nil	25	Nil	Nil
Taghmon	345	52	53	Nil	Nil
Tallow	779	138	141	34	34
Thomastown	769	165	167	42	42
Tinahely	296	Nil	55	Nil	Nil
Tramore	2,047	664	674	50	47
Waterford	27,968	4,562	4,653	4,962	4,983
Wexford	12,247	1,058	1,151	1,233	1,246
TOTALS ...	92,098	14,108	14,662	13,415	13,436

SUMMARY.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1944	1945	1944	1945
Athlone District ...	39,541	7,180	7,373	6,363	6,467
Cork No. 1 District ...	99,011	16,008	16,453	18,903	18,920
Cork No. 2 District ...	56,277	9,937	10,223	8,064	8,347
Dublin No. 1 District	475,594	91,405	93,873	70,638*	71,155
Dublin No. 2 District	106,521	24,070	24,883	14,521	14,515
Dundalk District ...	65,832	11,401	11,703	22,511	22,849
Galway District ...	39,055	6,879	6,946	3,288	4,229
Limerick District ...	91,175	16,883	17,230	18,219	18,233
Portlaoighise District	63,516	11,696	11,869	9,480	9,554
Sligo District ...	34,743	7,028	7,240	4,308	4,322
Tralee District ...	29,052	5,418	5,553	4,107	4,139
Waterford District ...	92,098	14,108	14,662	13,415	13,436
TOTALS ...	1,192,415	222,013	228,008	193,817	196,166

* Revised figure.

RATIONING.

The following is a summary of the restrictions in force during the year 1944/45. *The percentages indicate the maximum usage permitted to each consumer in relation to the basic consumption recorded on his electricity ration card.*

Date of Advertisement	Period of Restrictions	Cooking 1941 Basic	Water Heating 1941 Basic	Space Heating 1941 Basic	Industrial Process Heating* 1943 Basic	Motive Power* 1943 Basic	Traction 1943 Basic	Public Lighting 1941 Basic	All Other Uses† 1941 Basic
29/3/44	1/4/44—30/4/44	85%	50%	50%	50%‡	90%‡	66⅔%‡	Exempt	50%
22/4/44	1/5/44—8/6/44	85%	50%	Nil	85%	85%	66⅔%	Exempt	50%
8/6/44	9/6/44—30/6/44	50%	Nil	Nil	75%	75%	Nil	20%	20%
1/7/44	1/7/44—16/7/44	50%	Nil	Nil	85%	85%	Nil	20%	20%
14/7/44	17/7/44—6/9/44	75%	Nil	Nil	100%	100%	Nil	40%	40%
7/9/44	7/9/44—24/9/44	90%	50%	90%	100%	100%	Nil	90%	90%
23/9/44	25/9/44—25/3/45	100%	100%	100%	Exempt	Exempt	Exempt	100%	100%
16/3/45	26/3/45 onwards	100%	50%	75%	Exempt	Exempt	Exempt	Exempt	75%

‡ *1941 Basic*

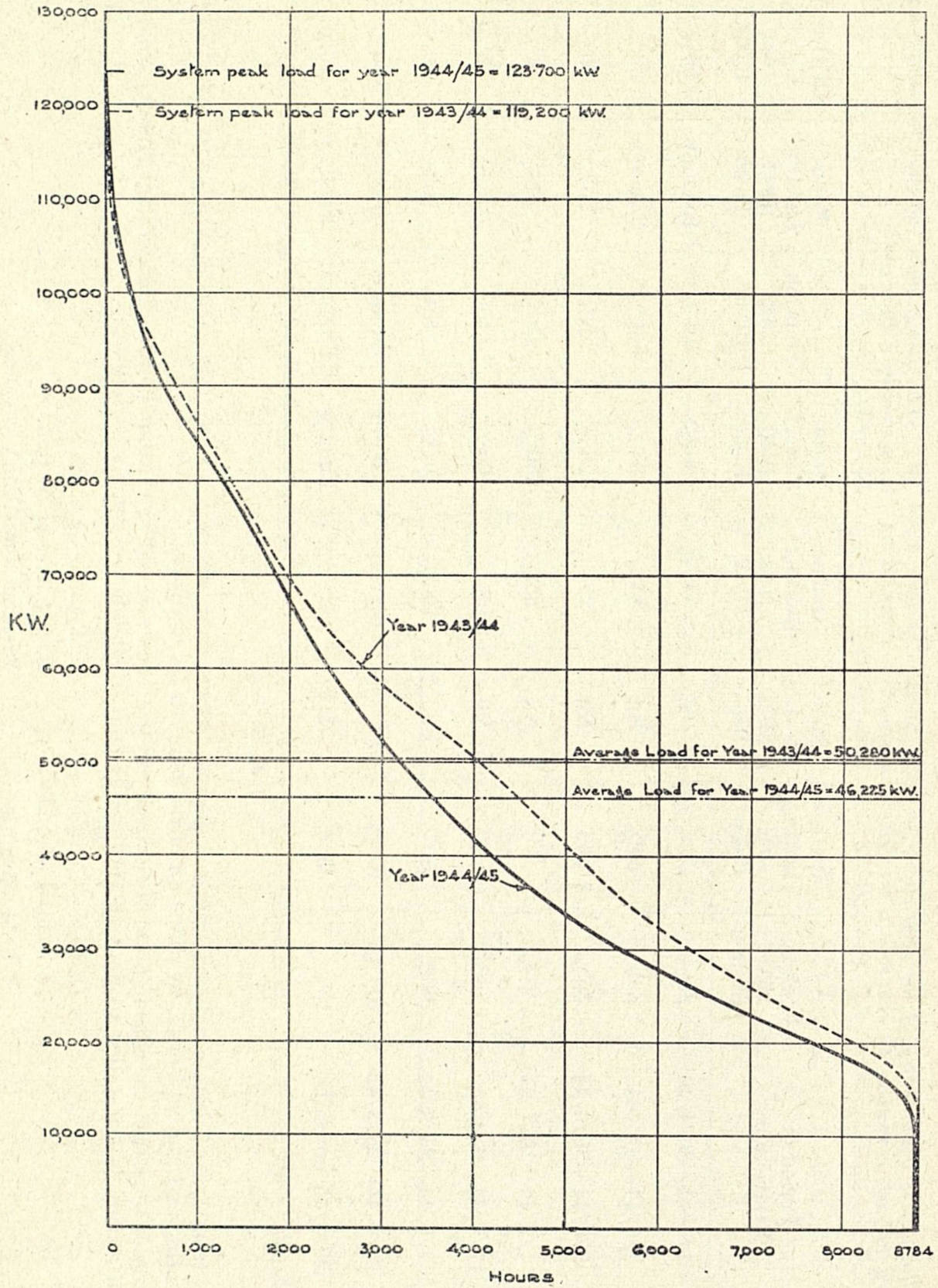
* As from 1/5/44 certain industries were exempted, in part or in whole, from the restrictions applicable to Industrial Process Heating and Motive Power, by direction of the Minister for Supplies.

†In order to restrict the consumption of electricity in households served by Current Limiters (*i.e.* without meters) group time-switch control was installed to limit the normal 24-hour availability of supply as follows :—

13/6/44—15/6/44	...	9.30 p.m.—5 a.m.
16/6/44— 6/9/44	...	9.30 p.m.—11.30 p.m.
7/9/44 onwards	...	24-hour availability restored.

DURATION OF LOAD—MAIN SYSTEM GENERATION, YEAR ENDED 31ST MARCH, 1945.

APPENDIX III.



Distribution at High Tension of Units generated and purchased in bulk from the Electricity Board for Northern Ireland. Year ending 31st March, 1945.

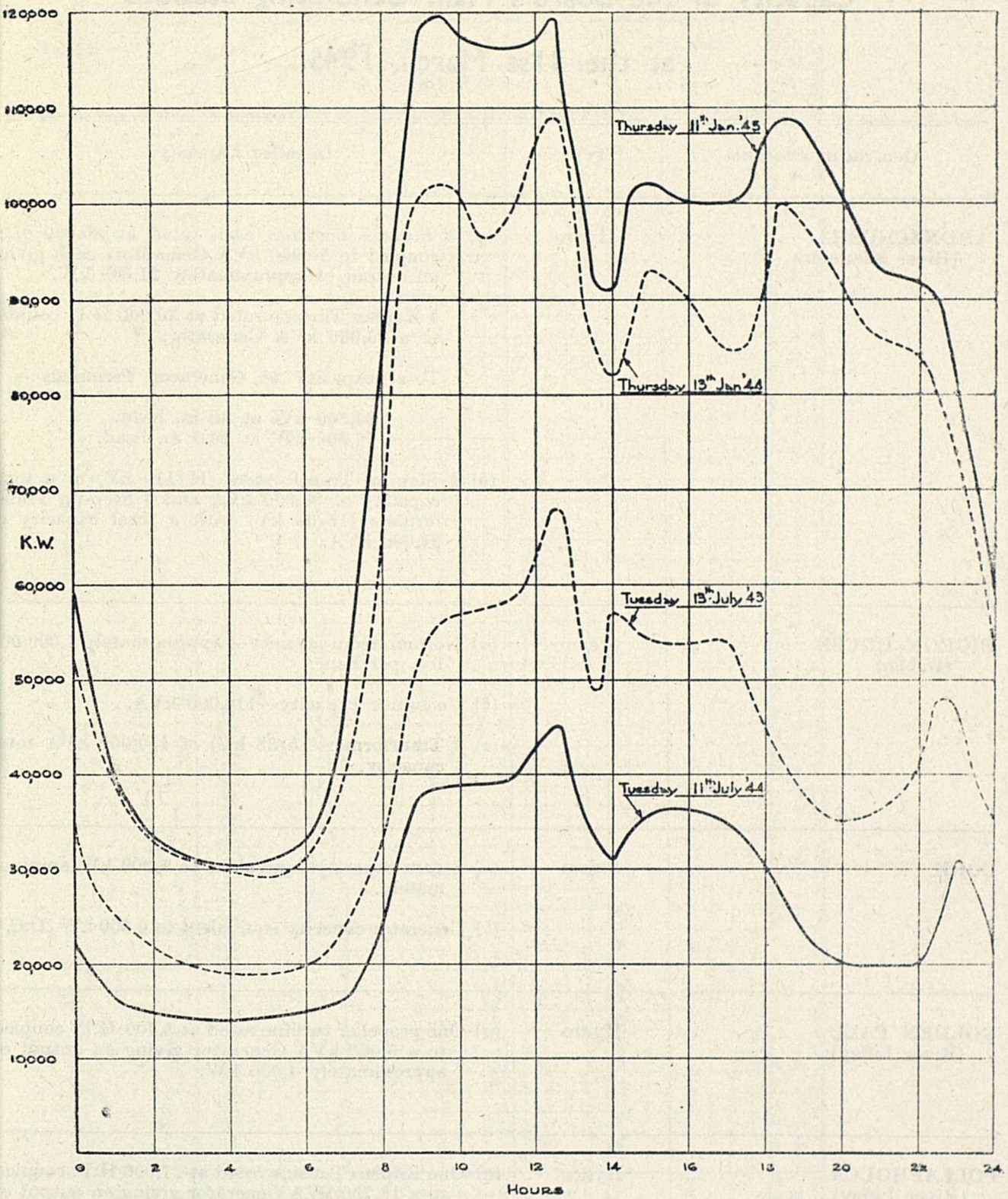
District		High Tension Units	Percentage of Total
Dublin City 5 kV. Supply	92,243,000		
Dublin City 10 kV. Supply	29,092,000		
TOTAL SUPPLY TO DUBLIN CITY		121,335,000	29·9
Córas Iompair Éireann (Dublin Tramways)		4,465,000	1·1
Cork City D.C. Supply	8,419,000		
Cork City A.C. Supply	18,453,000		
TOTAL SUPPLY TO CORK CITY		26,872,000	6·6
Athlone District		12,025,700	3·0
Cork No. 2 District		12,780,300	3·1
Dublin No. 2 District		41,390,400	10·2
Dundalk District		29,983,800	7·4
Galway District		7,887,600	1·9
Limerick District		30,124,200	7·4
Portlaoighise District		18,615,000	4·6
Sligo District		7,450,300	1·8
Tralee District		5,937,900	1·5
Waterford District		19,518,400	4·8
Station Auxiliaries		17,188,000	4·2
High Tension Losses		50,699,800	12·5
Total generation of all Stations	404,932,100		
Bulk supply purchased from E.B.N.I.	1,341,300		
Total generation of all Stations plus bulk supply purchased from E.B.N.I.		406,273,400	100·0

Monthly Output (KWh) of the Board's Generating Stations and bulk supply (KWh) purchased from the Electricity Board for Northern Ireland.—Year ending 31st March, 1945.

Month (Calendar)	Ardnacrusha	Pollaphouca	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 ...	8,864,400	—	444,800	17,980,600	—	27,289,800	90,800	27,380,600
May ...	5,288,300	—	155,500	19,937,700	—	25,381,500	104,100	25,485,600
June ...	4,926,200	—	159,500	13,991,100	10,400	19,087,200	97,300	19,184,500
July ...	6,554,400	—	173,200	12,004,800	9,300	18,741,700	97,600	18,839,300
August ...	5,867,800	—	165,900	15,293,300	—	21,327,000	66,800	21,393,800
September ...	24,003,700	—	1,119,600	1,600,700	—	26,724,000	105,700	26,829,700
October ...	29,428,600	—	1,043,100	6,753,400	—	37,225,100	121,900	37,347,000
November ...	39,550,000	—	1,347,100	4,069,500	—	44,966,600	128,500	45,095,100
December ...	40,034,800	808,500	1,449,700	6,338,400	—	48,631,400	129,800	48,761,200
January ...	40,348,800	—	1,391,700	11,890,700	—	53,631,200	150,400	53,781,600
February ...	36,639,900	1,613,300	659,800	2,944,400	—	41,857,400	128,100	41,985,500
March ...	25,892,500	3,202,900	1,200,600	9,773,200	—	40,069,200	120,300	40,189,500
TOTALS ...	267,399,400	5,624,700	9,310,500	122,577,800	19,700	404,932,100	1,341,300	406,273,400

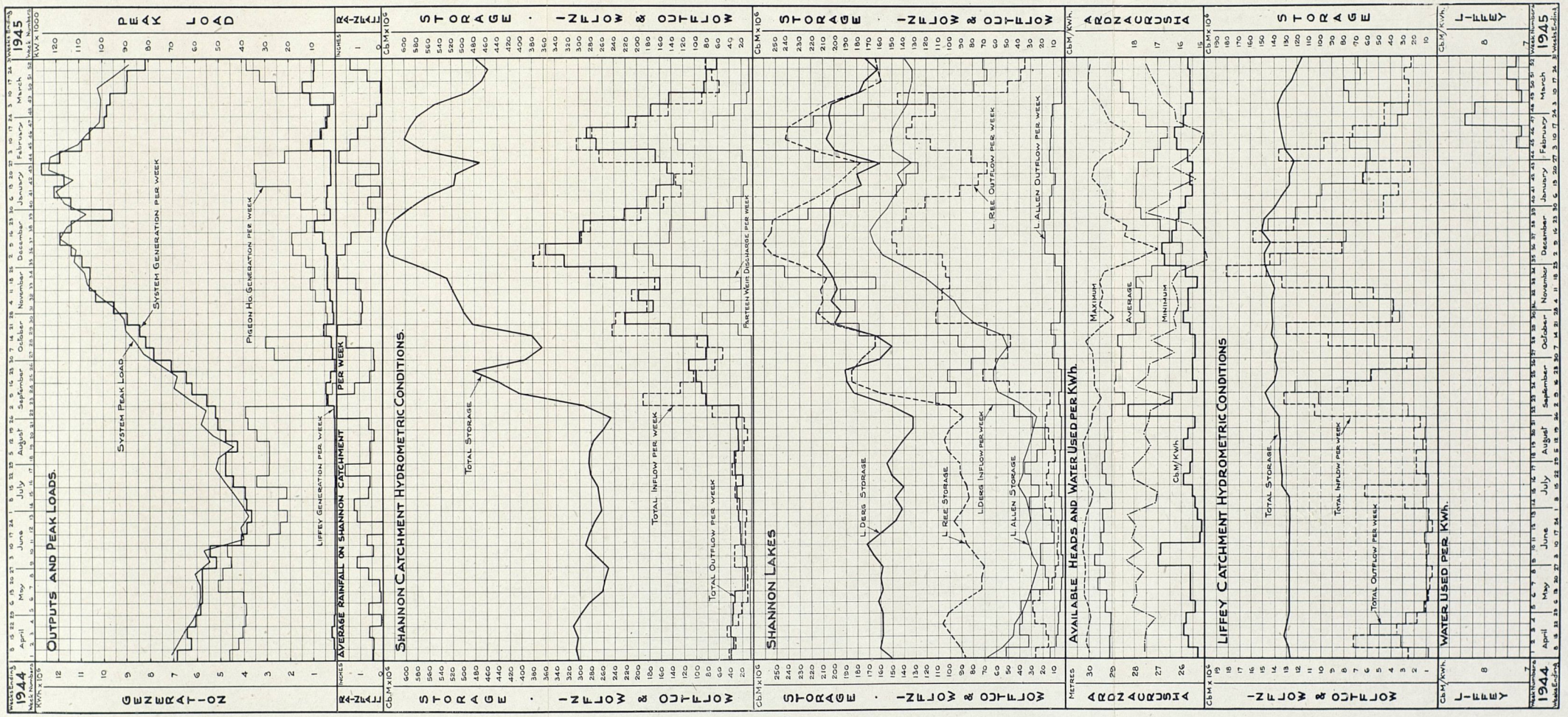
TYPICAL DAILY LOAD CURVES.

APPENDIX VI.

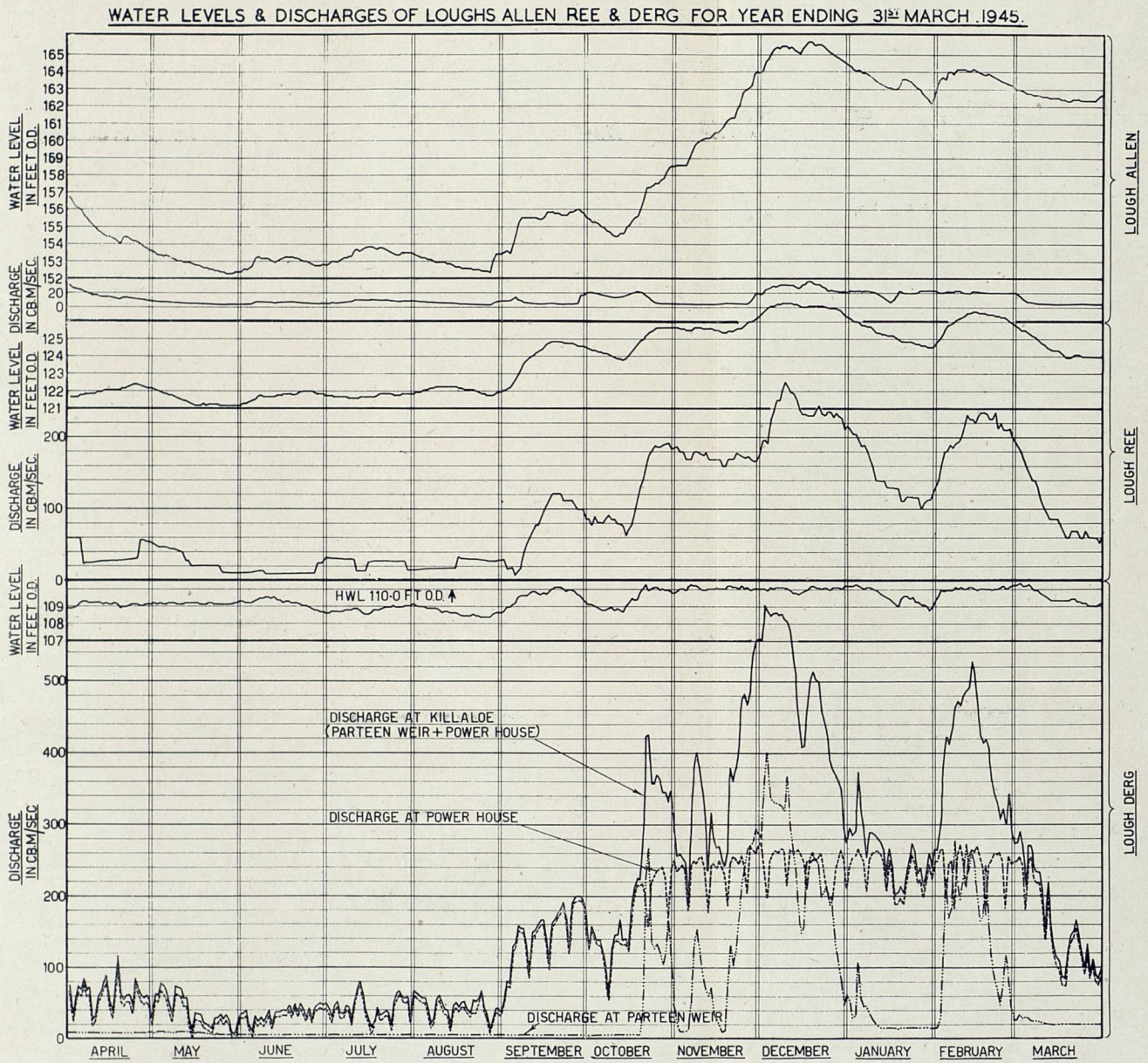


Capacity of the Board's Main Generating Stations at the 31st March, 1945.

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 FALL ... ... (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.
POLLAPHOUCA ... ... (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.

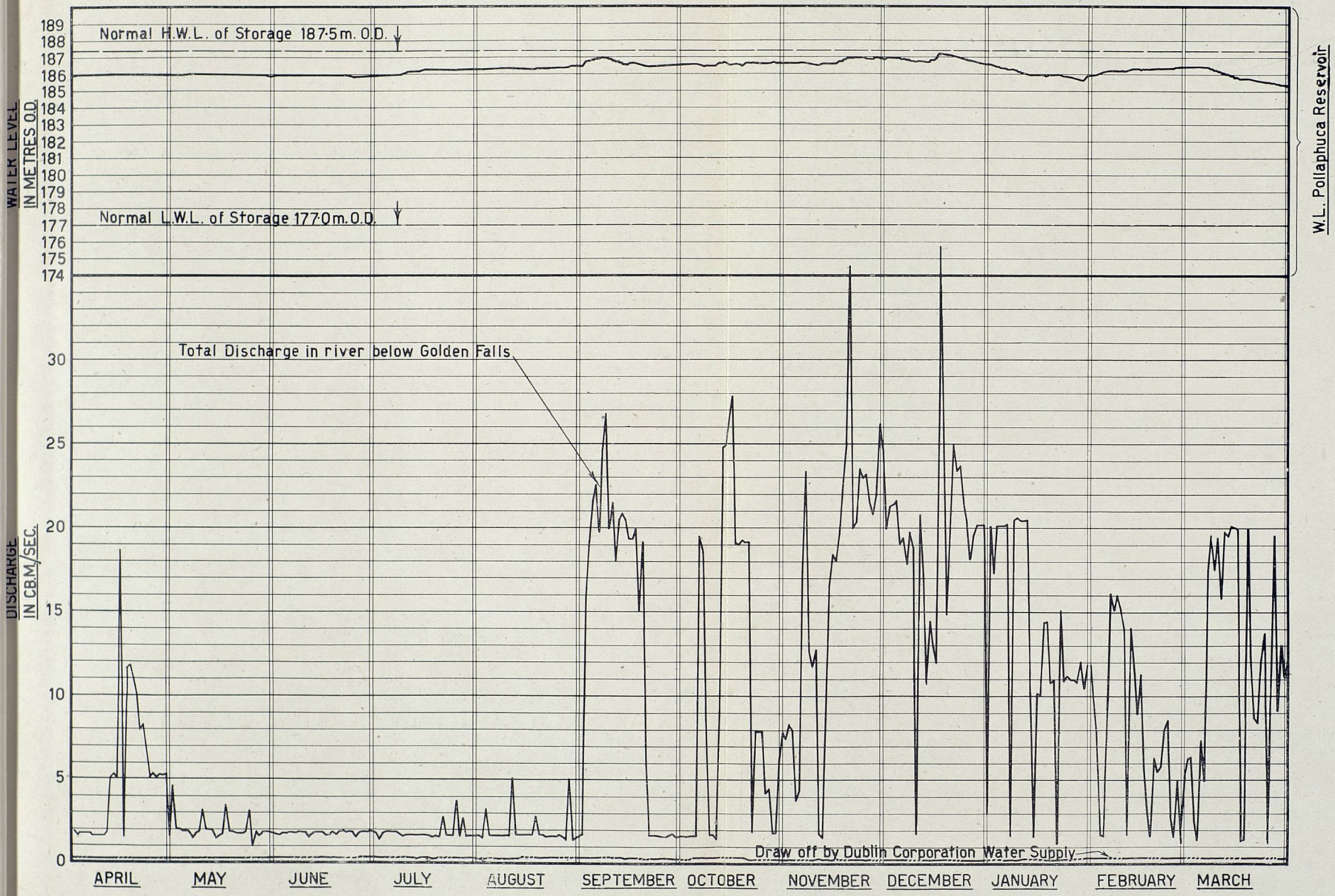


To face page 34 (a).



To face page 34 (*b*).

WATER LEVELS & DISCHARGES OF POLLAPHUCA RESERVOIR FOR YEAR ENDING 31ST MARCH 1945.



To face page 34 (c).

Transmission and Distribution Systems in Commission and under Construction at the 31st March, 1945.

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 ...	94	1	250,630 kVA.	5,480 kVA
10 kV Substations	1,424	61	173,667 kVA.	3,960 kVA
5 kV Substations	109	2	86,158 kVA.	1,010 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 ...	1,871·8 Kms.	39·3 Kms.	3×50 sq. mm.
38 kV Lines ...	328·2 Kms.	—	3×35 sq. mm.
10 kV Lines ...	3,417·2 Kms.	7·4 Kms.	3×10 sq. mm. to 3×70 sq. mm.
38 kV Cables ...	59·7 Kms.	—	3×185 sq. mm.
38 kV Cables ...	28·6 Kms.	—	3×150 sq. mm.
38 kV Cables ...	9·4 Kms.	—	3 × 95 sq. mm., including 1 Km. of Submarine Cable.
10 kV Cables ...	271·9 Kms.	1·5 Kms.	3 × 10 sq. mm. to 3 × 185 sq. mm.
5 kV Cables ...	267·7 Kms.	1·7 Kms.	Ditto.
3·3 kV Cables ...	3·7 Kms.	—	3×185 sq. mm.

Particulars of Electricity Undertakings which at 31st March, 1945, had not been acquired by the Electricity Supply Board.

NOTE.—In 10 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 1945
				Lighting	Heating and Cooking	Power	
Ardara	442	The Ardara Woollen & Industrial Co., Ltd ...	120	1/-	3d.	3d.	16,892 estd.
Ardfinnan	325	Mulcahy, Redmond & Co., Ltd.	13	1/6	—	—	1,556 estd.
Balla	282	John McEllin	52	1/6	—	9d.	5,063
Ballinlough	248	Ballinlough Electricity Supply Co. ...	50	1/6	—	—	1,440
Ballinamore	814	F. J. McAvinia	129	1/2	—	—	20,600 estd.
Ballinrobe	1,351	The Ballinrobe Electric & Woollen Co., Ltd.	266	1/6	1/6	1/3	40,471 approx
Ballybofey and Stranorlar	1,198	Ballybofey & Stranorlar Electric Supply Co.	172	1/-	6d.	6d.	23,360
Ballybunion	543	The Ballybunion Electricity Supply Co., Ltd.	225	1/1	7d.	7d.	19,756
Ballyconnell	276	William Stewart	92	1/-	—	—	10,000 estd.
Ballyshannon	2,223	John Myles & Co.	723	6d. & 8d.	1d. & 2d.	1d. & 2d.	311,176 estd.
Ballysodare	205	W. G. & T. Pollexfen	52	7½d.	3d.	3d.	15,229 estd.
Belmont	—	Robert Perry & Co. (1927), Ltd. ...	23	6d.	6d.	4d.	3,748 estd.
Belmullet	684	M. McEntyre	106	1/-	—	6d.	10,298
Birr	3,297	The Birr E. L. & Power Co., Ltd. ...	515	9d.	2d., 3d.	3d.	140,260
Blacklion	110	Capt. W. J. Nixon	25	1/3 & 1/6	—	—	2,743
Boyle	2,093	George Stewart	65	7d.	1½d.	2½d.	29,190

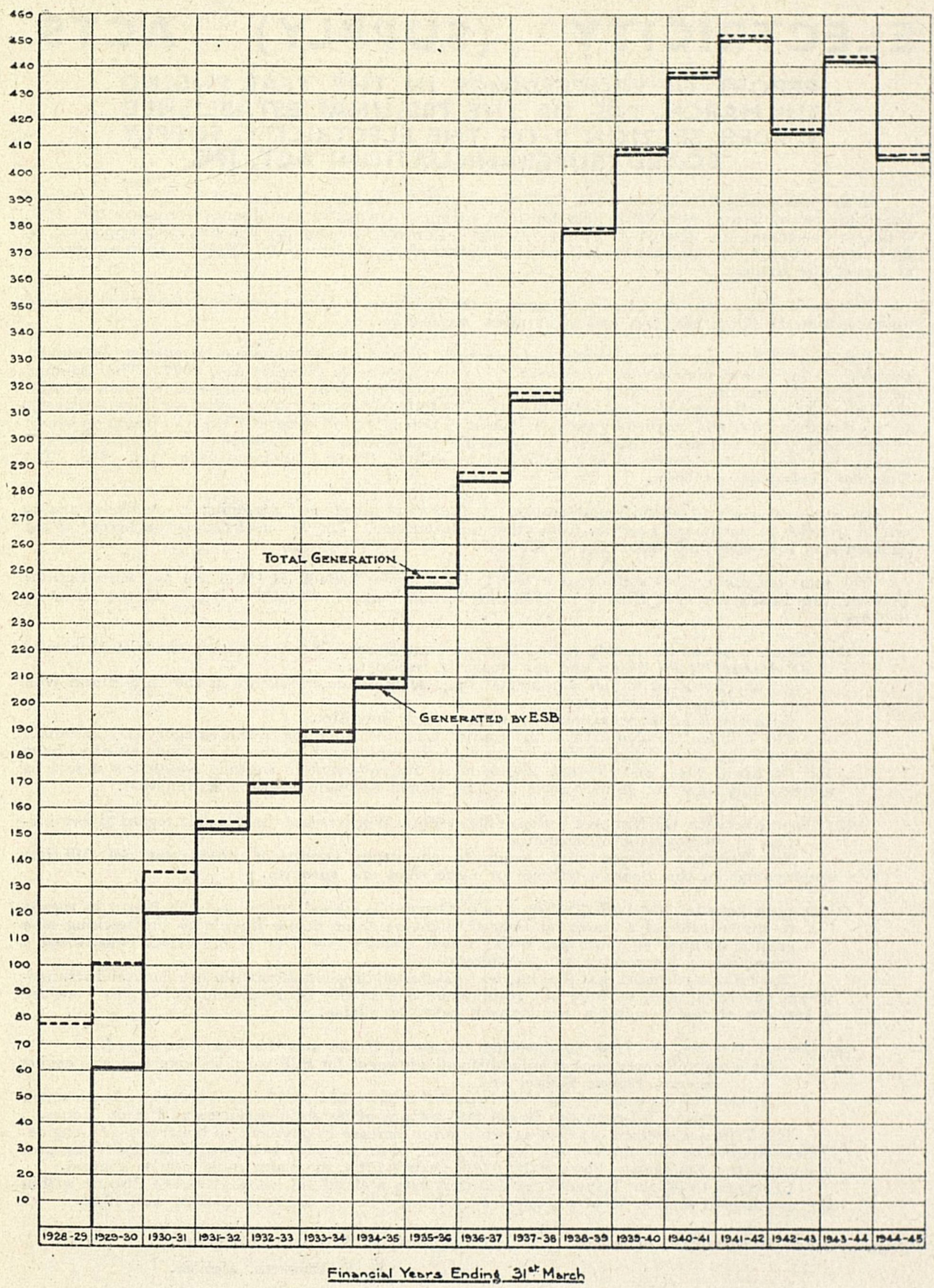
(1) Town	(2) Population	(3) Name of Undertaker	(4) No. of Consumers	(5) Normal Tariffs per Unit for			(6) Units Sold, Year ended 31st March, 1944
				Lighting	Heating and Cooking	Power	
Boyle	—	John Stewart	475	Miscellaneous 3d. to ½d. per unit			198,634
Borris, Co. Carlow ...	530	Borris Electricity Co., Ltd.	97	3d. to 7d.	1d. to 2d.	3d. to 4d.	11,768
				6d. to 1/–	4d.	4d. & 6d.	
Buncrana	2,295	The Buncrana Electric Supply Co. ...	432	6d. to 8d.	1½d. to 6d.	3½d. to 1½d.	219,250 estd
Bundoran	1,352	John Myles & Co.	570	6d.	1d. to 2d.	1½d. to 2d.	293,528 estd
Castlebellingham ...	243	Smallwares, Ltd.	13	4d.	—	2½d. + 20%	16,088 estd
Cahirciveen	1,680	The Cahirciveen E. L. & Power Co., Ltd.	315	10d.	6d.	6d.	41,122
Carlingford	488	The Carlingford Electricity Co., Ltd. ...	102	1/–	—	—	11,000 estd
Carndonagh	660	James Kelly	150	1/–	4d.	5d.	27,950
Carrigart	115	Miss M. Maguire	16	1/– & 1/3	—	—	882
Castlepollard	460	The Castlepollard Town Improvements Association	90	1/–	—	—	14,410
Clifden	1,019	Clifden E. L. & Power Station	135	1/–	6d.	—	15,000 estd approx.
Clogheen	479	John Browne	87	1/2	6d. Miscellaneous	6d.	15,494
Clonmany	123	Patrick Gallen	42	1/–	—	—	1,650
Clonmellon	273	Clonmellon Hydro Electric Co., Ltd. ...	50	2/- to 9/6 per week according to number of lights	—	3d.	1,500 approx
Collooney	310	W. A. G. Middleton	119	7½d.	1½d.	2d.	36,532 estd
Cloughjordan	416	Martin Gleeson	93	1/1	6d. Miscellaneous	—	16,100
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.	46,129
Drumkeeran	232	The Drumkeeran Electricity Supply Co., Ltd.	54	1/3	4d.	Miscellaneous 4d.	5,060 estd
Drumshambo	553	C. S. Laird, Ltd.	94	8d.	2d.	2d.	27,680
Dromahair	279	Paul Jeiter	42	9d.	3d. & 1½d.	—	11,030 estd
Dungloe	593	The Templecrone Co-op. Agrl. Society, Ltd.	144	8d.	2d.	—	16,010 estd
Dunmore Co. Galway ...	482	Dunmore Electric Light Co., Ltd. ...	95	1/5	—	9d	7,966
Emyvale	237	C. McCluskey	48	8d.	—	4d.	6,455
Enniskerry	145	The Enniskerry E. S. Co-op. Society ...	52	1/–	4d.	4d.	5,485
Falcarragh	—	Leo McGinley	50	1/2	—	—	3,674
Foynes	497	Foynes Saw Mills, Ltd.	67	9d., 10d. & 1/–	—	6d.	29,452
Frenchpark	196	Frenchpark Electric Lighting Co., Ltd. ...	36	1/6	—	8d.	2,700 estd
Frosses, Co. Donegal ...	—	Michael Campbell	15	1/–	—	—	1,293
Glendalough	182	Messrs. Wynne	10		Included in rent.	—	9,000 estd
Glenmore, Co. Kilkenny	—	Glenmore Co-Operative Creamery, Ltd. ...	26	1/3	—	—	1,737
Glenties	360	Glenties Electricity Supply Co., Ltd. ...	97	1/1	4d.	4d.	10,777
Gortahork	—	Michael McFadden	5	1/–	—	—	515
Kenmare	921	Kenmare Electric Supply Co.	243	6d. to 10d.	3d.	3d.	40,680

(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, 1945
				Lighting	Heating and Cooking	Power	
Killybegs	631	Rev. Bro. Superior, St. Columba's E. L. Station	115	1/-	—	—	11,751
Kilmacthomas ...	357	Patrick Kiersey	44	1/-	—	1/-	7,575 approx.
Kinnegad	270	Thomas Dunne	5	11d.	—	—	1,500 estd
Letterfrack	—	The Superior, Industrial School	13	8d.	—	—	2,127
Malin, Co. Donegal ...	112	Matthew O'Doherty	34	1/3	—	—	1,540 estd.
Manorhamilton ...	976	Manorhamilton & District E. L. Co., Ltd. ...	234	8d. & 11d.	4d.	4d.	32,329
Milford, Co. Donegal ...	377	McMahon Bros.	42	1/-	—	—	4,200
Milford, Co. Donegal ...		William Russell	32	1/-	—	—	2,780
Miltownpass	80 estd	Miltownpass Elec. Light & Power Co., Ltd. ...	17	1/- per week per lamp	—	—	1,700 estd
Mountbellew	284	Mountbellew Co-op. Agrl. Dairy Society, Ltd.	46	1/-	—	—	4,500 estd
Moville	937	The Moville Electric Supply Co.	212	9d. & 10d.	—	4d. & 3d.	19,500
Pettigo	251	Shaw Bros.	73	10d.	—	—	5,981
Portumna	894	The Portumna E. L. & Power Co., Ltd. ...	184	1/- & 1/2	—	9d.	26,014 estd
Ramelton	924	Robert J. Campbell	97	1/-	4d.	9d. & 10d.	15,056
Raphoe	754	Raphoe Electric Lighting Co., Ltd. ...	78	1/-	—	8d.	13,000 estd
Rathfarnham	657	The Rathfarnham Mfg. Co., Ltd. ...	38	3·6d.	3·6d.	3.3d.	21,638
Riverstown, Co. Sligo ...	225	Flanagan Bros.	6	1/6, 2/6	—	—	568
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)	3,299
St. Johnston, Co. Donegal	270	Edward J. White	52	1/-	—	—	9,500
Shillelagh	147	The Earl of Fitzwilliam	4	6d.	—	—	1,837
Sixmilebridge	323	James O'Flynn & Sons, Ltd.	40	10d., 8d., 6d.	—	4d.	7,250
Tuamgraney	101	E. McLysaght, Raheen, Tuamgraney ...	4	1/-	—	—	945
Waterville	164	Electricity Supply Co., Ltd. Waterville, Co. Kerry	67	1/- 15s. per month	1/- and flat rate of	— 6d. per unit	7,219
Windgap	72	Windgap Co-op. Dairy Society, Ltd. ...	9	Fixed yearly rent including Wiring, etc.	—	—	1,500
Woodford	184	Mrs. John Roche	18	10d.	3d.	—	2,562 estd
Various Districts ...	—	Great Northern Railway Co. (Ireland) ...	76	1·1d. to 10d.	1.1d. to 1·5d.	·84d. to 1·50d.	33,397

Total No. of undertakings 76; Total Population 41,316; Total No. of Consumers 8,494; Units sold 2,068,478 approximately.

UNITS GENERATED FROM APRIL 1ST, 1928 TO MARCH 31ST, 1945.

APPENDIX XIII.



ELECTRICITY (SUPPLY) ACTS.

REPORT OF PROCEEDINGS IN THE YEAR ENDING 31st MARCH, 1945, OF THE TRIBUNAL ESTABLISHED UNDER SECTION 9 OF THE ELECTRICITY SUPPLY BOARD (SUPERANNUATION) ACT, 1942

In the year ending 31st March, 1945, the Tribunal established under Section 9 of the Electricity Supply Board (Superannuation) Act, 1942, held fourteen sittings. Owing to the absence abroad of Mr. J. J. O'Leary, Chairman, Mr. Patrick A. Foley, " Oreen ", Raheny, Co. Dublin, who had been appointed on 1st October, 1943, by the Minister for Industry and Commerce to act during Mr. O'Leary's absence, presided at ten of the sittings.

Twenty-four disputes were adjudicated upon by the Tribunal. Of these disputes sixteen were advanced under section 13 (6) of the Act, and eight under section 11.

Fifteen 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 two claims, and rejected thirteen. In six cases of rejection of claim the Tribunal made recommendations to the Board. The sixteenth claim was for loss of earnings on transfer to the Board and was put forward by the Amalgamated Transport and General Workers' Union on behalf of an employee who had already had allowed by the Tribunal a claim to be deemed an " excluded person " within the meaning of Section 13 of the Electricity Supply Board (Superannuation) Act, 1942. The Tribunal disallowed the claim.

Of the eight cases advanced under Section 11, four were for alleged worsening of conditions arising out of transfer to the Board's service from other undertakings. The Tribunal decided in favour of the claimants in two cases and rejected two cases.

The remaining four cases submitted to the Tribunal under Section 11 (1) of the Act were disputes between the Board and five Unions representing certain manual workers in regard to the following matters :—

(1) Dispute between the Amalgamated Transport and General Workers' Union, the Irish Municipal Employees' Trade Union and the Board in regard to :
(*a*) an alteration in the incremental wage scale of meter readers in the Dublin and Dún Laoghaire area, and
(*b*) a claim for improvement in their working conditions.
The Tribunal decided (*a*) that the grading principles applying to this category should remain unaltered but decided that certain adjustments in applying them should be made effective from the 1st April, 1944, and (*b*) that the claim for improvement in working conditions should be allowed only in so far as protective clothing should be made available as required.

(2) Dispute between the National Union of Sheet Metal Workers and the Board in regard to termination of employment of tinsmiths.
The Tribunal decided that, owing to emergency conditions, there was not full-time employment in the Board's service for more than one tinsmith.

(3) Dispute between the Irish Transport and General Workers' Union and the Board in regard to the transfer of a stores labourer to night-watching duties (involving the working of a greater number of hours per week) which transfer, the Union contended, constituted a worsening in his conditions of employment.
The Tribunal decided that the transfer was effected in accordance with the recognised arrangements governing such matters but recommended that the Board should favourably consider a transfer to more suitable employment when available.

(4) Dispute between the Irish Engineering Industrial Union and the Board in regard to
(*a*) a claim for payment of an additional allowance for shift work to boilermen and engine drivers, Pigeon House, and
(*b*) the making available to the General Secretary of that Union of correspondence which passed between the Board and certain of its shift engineers in Pigeon House.
The Tribunal decided (*a*) that as a claim for increase in payment to boilermen and engine-drivers above the rate payable at the 8th April, 1942, for such work was contrary to the provisions of the Emergency Powers (No. 260) Order, 1943, the claim could not be allowed.
In regard to (*b*) the Tribunal decided that such a claim did not constitute a dispute within the meaning of section 11 of the Electricity Supply Board (Superannuation) Act, 1942.

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

(Signed) P. A. FOLEY, *Chairman.*
R. F. BROWNE, *Member.*
CATHAL O'SHANNON, *Member.*

Date : 12th April, 1945.

ACCOUNTS

No. 1. INSTALLATIONS TRADING ACCOUNT FOR

Dr.

	£	s.	d.	£	s.	d.	Year 1943/44
To Cost value of work for which credit had not been taken at 31st March, 1944				14,131	8	8	22,678
,, Cost of installation work carried out during the year ...				42,343	3	6	45,372
,, Gross profit, carried down				17,893	1	0	20,642
				£74,367	13	2	£88,692
To Salaries, wages and state insurance ...	8,729	11	0				
,, Travelling expenses	467	18	7				
,, Rents and rates	128	11	8				
,, Sundry expenses	570	1	7				
,, General overhead expenses and interest, as apportioned...	3,540	0	0				
				13,436	2	10	14,366
,, Balance, carried to **Net Revenue Account**				4,456	18	2	6,276
				£17,893	1	0	£20,642

No. 2. MERCHANDISE TRADING ACCOUNT FOR

Dr.

	£	s.	d.	£	s.	d.	Year 1943/44
To Cost value of transactions for which credit had not been taken at 31st March, 1944				4,984	9	9	10,754
,, Cost of goods issued as sales				15,797	11	3	22,172
,, Sundry costs in connection with sales				1,276	1	10	1,376
,, Gross profit, carried down				5,860	15	9	8,326
				£27,918	18	7	£42,628
To Salaries, wages, commission and state insurance	2,937	17	4				
,, Travelling expenses	45	11	10				
,, Rents and rates	396	15	4				
,, Sundry expenses	333	6	9				
,, General overhead expenses and interest, as apportioned	2,414	2	11				
				6,127	14	2	6,922
,, Balance, carried to **Net Revenue Account**				—			1,410
				£6,127	14	2	£8,332

THE YEAR ENDED 31st MARCH, 1945.

Cr.

	£	s.	d.	Year 1943/44 £
By Credit taken for contracts completed and charged ...	62,987	7	11	74,561
,, Cost value of work for which credit has not yet been taken	11,380	5	3	14,131
	£74,367	13	2	£88,692
By Gross profit, brought down	17,893	1	0	20,642
	£17,893	1	0	£20,642

THE YEAR ENDED 31st MARCH, 1945.

Cr.

	£	s.	d.	Year 1943/44 £
By Credit taken for sales	24,777	19	2	37,643
,, Cost value of transactions for which credit has not yet been taken	3,140	19	5	4,985
	£27,918	18	7	£42,628
By Gross profit, brought down	5,860	15	9	8,326
,, Hireage receipts on hire-purchase appliances	17	8	0	6
,, Balance, carried to Net Revenue Account	249	10	5	—
	£6,127	14	2	£8,332

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

Dr.

	£ s. d.	£ s. d.	Year 1943/44 £
To GENERATION :			
Operating expenses ...	... 109,222 17 9		
Fuel	... 463,629 7 8		
Maintenance and repair ...	... 104,622 16 9		
Transfer to depreciation reserve	... 77,000 0 0		
Supervision and local administration	37,466 11 10		
Electricity purchased in bulk	... 5,642 4 2		
		797,583 18 2	714,173
,, TRANSMISSION :			
Operating expenses ...	... 16,845 19 9		
Maintenance and repair ...	... 35,681 8 0		
Transfer to depreciation reserve	... 81,000 0 0		
Supervision and local administration	21,171 17 8		
		154,699 5 5	150,799
,, DISTRIBUTION :			
Operating expenses ...	... 197,432 13 6		
Maintenance and repair ...	... 108,621 6 7		
Transfer to depreciation reserve	... 149,000 0 0		
Supervision and local administration	232,385 0 1		
		687,439 0 2	635,817
,, GENERAL ADMINISTRATION :			
Board, Secretariat and Consultants	... 32,642 17 2		
Engineering	... 48,528 8 3		
Accounting	... 51,658 12 11		
Audit fee	... 1,000 0 0		
Sales promotion and publicity	... 24,121 14 7		
General expenses ...	... 45,423 3 8		
Transfer to depreciation reserve— general assets	... 8,000 0 0		
	211,374 16 7		
Less : apportionment charged to other accounts and to capital works	... 4,989 0 0		
		206,385 16 7	202,078
,, Provision for bad debts	...	3,000 0 0	2,000
,, Depreciation of stocks of material	... ...	1,350 11 1	210
,, Balance, carried to Profit and Loss Account	...	627,442 0 10	728,727
		£2,477,900 12 3	£2,433,804

THE YEAR ENDED 31st MARCH, 1945.

Cr.

	£ s. d.	£ s. d.	Year 1943/44 £
By Charges for electricity, etc.:			
General consumers ...	2,330,583 19 4		
Public lighting	... 77,662 15 9		
Meter and other rents ...	... 50,164 8 1		
		2,458,411 3 2	2,426,082
„ Miscellaneous revenue	... ...	19,489 9 1	7,722
		£2,477,900 12 3	£2,433,804

No. 4.
Dr.

ELECTRICITY PROFIT AND LOSS ACCOUNT

	£ s. d.	£ s. d.	Year 1943/44 £
To Interest payable to the Minister for Finance	653,619 17 1		
„ Interest on loans and loan-stocks of acquired undertakings	12,740 3 8		
„ Other interest	204,466 11 6		
	870,826 12 3		
Less : apportionment charged to other accounts and to capital works ...	12,400 0 0		
		858,426 12 3	835,547
„ Loan-stock management charges		98 3 10	141
„ Gross contributions to loan-stock sinking funds of acquired undertakings		16,420 19 1	13,769
„ Reserves, being the amount of capital repaid or provided for repayment in respect of advances from the Minister for Finance	79,689 10 2		
acquired undertakings	675 3 0		
		80,364 13 2	76,689
„ Premium at which loan-stock was redeemed		1,212 7 9	3,262
		£956,522 16 1	£929,408
To Balance, brought down		322,763 14 5	194,531
„ 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
		£324,352 14 11	£196,120

No. 4A.
Dr.

ELECTRICITY NET REVENUE ACCOUNT

	£ s. d.	Year 1943/44 £
To Balance transferred from Profit and Loss Account ...	324,352 14 11	196,120
	£324,352 14 11	£196,120
To Balance, brought down	320,145 7 2	188,434
„ Amount charged in respect of expenditure on the design and supervision of new capital works	—	17,544
„ Balance, brought forward from last year's account ...	219,393 19 5	13,416
	£539,539 6 7	£219,394
To Balance, brought down	£539,539 6 7	

FOR THE YEAR ENDED 31st MARCH, 1945.

Cr.

	£ s. d.	Year 1943/44 £
By Balance transferred from Revenue Account	627,442 0 10	728,727
,, Loan-stock sinking funds' investment income	5,770 0 11	5,184
,, Interest receivable, ...	546 19 11	966
,, Balance, carried down	322,763 14 5	194,531
	£956,522 16 1	£929,408
,, Balance, carried to Net Revenue Account	324,352 14 11	196,120
	£324,352 14 11	£196,120

FOR THE YEAR ENDED 31st MARCH, 1945.

Cr.

	£ s. d.	£ s. d.	Year 1943/44 £
By Installations trading profit	4,456 18 2		
Less : Merchandise trading loss ...	249 10 5		
		4,207 7 9	7,686
,, Balance, carried down		320,145 7 2	188,434
		£324,352 14 11	£196,120
,, Balance, carried down		539,539 6 7	219,394
		£539,539 6 7	£219,394

No. 5. ELECTRICITY CAPITAL ACCOUNT FOR

Dr.

	Total to 31st March, 1944 less— amounts written off	Expenditure during year to 31st March, 1945 less— amounts written off	Total to 31st March, 1945 less— amounts written off
	£ s. d.	£ s. d.	£ s. d.
To GENERATION: physical assets ...	6,551,363 11 9	825,035 5 3	7,376,398 17 0
„ TRANSMISSION: physical assets ...	3,575,227 5 2	54,933 11 0	3,630,160 16 2
„ DISTRIBUTION: (*a*) physical assets ...	4,314,343 8 10	81,975 16 0	4,396,319 4 10
(*b*) other capital expenditure	583,148 2 6	—	583,148 2 6
„ GENERAL: (*a*) physical assets ...	376,533 2 10	1,786 2 3	378,319 5 1
(*b*) other capital expenditure	322,187 19 6	(—)12,788 2 8	309,399 16 10
	£15,722,803 10 7	£950,942 11 10	16,673,746 2 5
„ NON-CLASSIFIED EXPENDITURE: New works in progress			495,696 13 10
		TOTAL ...	17,169,442 16 3
			£17,169,442 16 3

THE YEAR ENDED 31st MARCH, 1945.

Cr.

	Total Receipts to 31st March, 1944 less— redemptions	Redemptions during year to 31st March, 1945 less— receipts	Total Receipts to 31st March, 1945 less— redemptions
	£ s. d.	£ s. d.	£ s. d.
By Local Authority Undertakings :			
Loans and loan-stocks	95,417 0 10	16,165 14 2	79,251 6 8
Liability under section 39 (7) of the Electricity (Supply) Act, 1927	131 5 7	131 5 7	—
,, 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 ...	13,109,192 8 5	76,913 7 0	13,032,279 1 5
Total ...	£13,204,740 14 10	£93,210 6 9	13,111,530 8 1
By Balance			4,057,912 8 2
			£17,169,442 16 3

No. 6.
Dr.

ELECTRICITY BALANCE SHEET

LIABILITIES.	£	s.	d.	£	s.	d.	31/3/1944 £
To Receipts, as per Capital Account				13,111,530	8	1	13,204,741
„ Sundry Creditors				342,399	11	2	363,031
„ Loans under the Electricity Supply Board (Superannuation) Act, 1942 from the Trustees of							
General Employees Superannuation Fund	90,700	0	0				
Manual Workers Superannuation Fund	82,300	0	0				
				173,000	0	0	70,700
„ Amount reserved in respect of sinking funds for loan-stocks of acquired undertakings				19,345	14	6	18,278
„ 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				5,301,460	16	2	4,694,881
„ 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	23,224	11	11				
				101,122	6	3	99,528
				£19,319,156	1	6	£18,721,456

AS AT 31st MARCH, 1945.

Cr.

ASSETS.	£	s.	d.	31/3/1944 £
By CAPITAL ASSETS, as per CAPITAL ACCOUNT	17,169,442	16	3	16,976,098
„ STOCKS ON HAND AND IN TRANSIT	743,965	11	10	764,765
„ COST VALUE OF INSTALLATIONS WORK AND SALES FOR WHICH CREDIT HAS NOT BEEN TAKEN	20,137	12	10	22,979
„ SUNDRY DEBTORS, after providing for bad and doubtful debts	527,717	11	5	474,816
„ SHANNON FISHERIES, temporary advances	5,446	11	8	188
„ CASH IN HAND AND WITH BANKS	293,560	16	5	244,938
„ SINKING FUNDS (held by local authorities) for loan-stocks :	£	s.	d.	
Investments (at cost) ...	8,990	2	10	
Cash not invested ...	10,355	11	8	
	19,345	14	6	18,278
„ DEFICIENCY, as per NET REVENUE ACCOUNT ...	539,539	6	7	219,394
	£19,319,156	1	6	£18,721,456

No. 7. SHANNON FISHERIES TRADING ACCOUNT

Dr.

	£ s. d.	Year 1943/44 £
To Operation, maintenance and repair	7,030 0 10	8,347
,, Cost of fish purchased	207 7 8	437
,, Fishery rates	2,682 15 7	2,835
,, General management and overhead expenses	1,508 14 1	1,650
,, Balance, carried to Profit and Loss Account ...	4,312 8 3	7,075
	£15,741 6 5	£20,344

No. 8. SHANNON FISHERIES PROFIT AND LOSS ACCOUNT

Dr.

	£ s. d.	£ s. d.	Year 1943/44 £
To Interest payable to the Minister for Finance	8,812 18 11		
,, Other interest ...	32 7 2		
	8,845 6 1		
Less: apportionment charged to other accounts and to capital works	100 0 0		
		8,745 6 1	8,509
,, Reserve, being amount of capital repaid in respect of advances from Minister for Finance		1,006 15 0	958
		£9,752 1 1	£9,467
To Balance, brought down		5,439 12 10	2,392
To Balance brought forward from last year's account ...		31,376 14 4	28,985
		£36,816 7 2	£31,377
To Balance, brought down		£36,816 7 2	

FOR THE YEAR ENDED 31st MARCH, 1945.

Cr.

	£ s. d.	Year 1943/44 £
By Sales of fish, letting of fishing rights and miscellaneous receipts	15,741 6 5	20,344
	£15,741 6 5	£20,344

FOR THE YEAR ENDED 31st MARCH, 1945.

Cr.

	£ s. d.	Year 1943/44 £
By Balance, brought from Trading Account	4,312 8 3	7,075
„ Balance, carried down	5,439 12 10	2,392
	£9,752 1 1	£9,467
By Balance, carried down	36,816 7 2	31,377
	£36,816 7 2	£31,377

No. 9.
Dr.

SHANNON FISHERIES CAPITAL ACCOUNT

	Total to 31st March, 1944	Expenditure during year to 31st March, 1945	Total to 31st March, 1945
	£ s. d.	£ s. d.	£ s. d.
To Fishery rights and fisheries ...	92,551 6 7	232 11 6	92,783 18 1
„ Works to preserve fisheries ...	33,337 13 2	—	33,337 13 2
„ Other capital expenditure ...	18,521 15 5	2,527 19 7	21,049 15 0
	£144,410 15 2	£2,760 11 1	147,171 6 3
„ Non-classified expenditure : New works in progress ...			87 10 0
			147,258 16 3
„ Balance			28,493 13 2
			£175,752 9 5

No. 10.
Dr.

SHANNON FISHERIES BALANCE SHEET

LIABILITIES.		31/3/1944
	£ s. d.	£
To Receipts, as per Capital Acccount	175,752 9 5	176,759
„ Electricity Funds, temporary advances	5,446 11 8	188
„ Amount reserved in respect of capital loans repaid ...	4,247 10 7	3,241
	£185,446 11 8	£180,188

FOR THE YEAR ENDED 31st MARCH, 1945.

Cr.

	Total Receipts to 31st March, 1944 less redemptions	Redemptions during year to 31st March, 1945	Total Receipts to 31st March, 1945 less redemptions
	£ s. d.	£ s. d.	£ s. d.
By Minister for Finance :			
Advances under the Shannon Fisheries Act, 1935	176,759 4 5	1,006 15 0	175,752 9 5
			£175,752 9 5

AS AT 31st MARCH, 1945.

Cr.

ASSETS.			31/3/1944
	£ s. d.		£
By Capital assets, as per Capital Account	147,258 16 3		147,666
„ Stock of material	1,098 14 0		1,108
„ Sundry debtors	138 10 2		—
„ Cash in hand and with Bank	134 4 1		37
„ Deficiency, as per Profit and Loss Account	36,816 7 2		31,377
	£185,446 11 8		£180,188

			Total Receipts to 31st March, 1945
			£ 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—	£	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, 1945.

Redeemed			Balance of Capital Receipts Outstanding at 31st March, 1945
Total to 31st March, 1944	During year to 31st March, 1945	Total to 31st March, 1945	
£ s. d.	£ s. d.	£ s. d.	£ s. d.
645,538 6 7	16,165 14 2	661,704 0 9	79,251 6 8
14,934 11 3	131 5 7	15,065 16 10	—
332,667 6 8	79,689 10 2	412,356 16 10	13,032,279 1 5
£993,140 4 6	£95,986 9 11	£1,089,126 14 5	£13,111,530 8 1
3,240 15 7	1,006 15 0	4,247 10 7	175,752 9 5
£996,381 0 1	£96,993 4 11	£1,093,374 5 0	£13,287,282 17 6

No. 12.
Dr.

GENERAL BALANCE SHEET

LIABILITIES.	£	s.	d.	£	s.	d.	31/3/1944 £
To Receipts:							
per Electricity Capital Account	13,111,530	8	1				
per Shannon Fisheries Capital Account	175,752	9	5				
				13,287,282	17	6	13,381,500
„ Sundry Creditors				342,399	11	2	363,031
„ Loans under the Electricity Supply Board (Superannuation) Act, 1942 from the Trustees of							
	£	s.	d.				
General Employees Superannuation Fund	90,700	0	0				
Manual Workers Superannuation Fund	82,300	0	0				
				173,000	0	0	70,700
„ Amount reserved in respect of sinking funds for loan-stocks of acquired undertakings				19,345	14	6	18,278
„ 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				5,305,708	6	9	4,698,122
„ Capital Assets Adjustment Reserve representing surplus arising from re-valuation ...				270,297	5	4	270,297
„ Reserves:	£	s.	d.				
Amount provided by acquired undertakings...	77,897	14	4				
Other reserves and provisions	23,224	11	11				
				101,122	6	3	99,528
				£19,499,156	1	6	£18,901,456

R. F. BROWNE, *Chairman.*

PATRICK J. DEMPSEY, *Secretary.*

AS AT 31st MARCH, 1945.

Cr.

ASSETS.	£ s. d.	£ s. d.	31/3/1944 £
By Capital Assets:			
per Electricity Capital Account	... 17,169,442 16 3		
per Shannon Fisheries Capital Account	147,258 16 3		
		17,316,701 12 6	17,123,764
„ Stocks on Hand and in Transit		745,064 5 10	765,874
„ Cost Value of Installations Work and Sales for which Credit has not been taken ...		20,137 12 10	22,979
„ Sundry Debtors, after providing for bad and doubtful debts		527,856 1 7	474,816
„ Cash in Hand and with Banks		293,695 0 6	244,974
„ Sinking Funds (held by local authorities) for loan-stocks:	£ s. d.		
Investments (at cost) ...	8,990 2 10		
Cash not invested ...	10,355 11 8		
		19,345 14 6	18,278
„ Deficiency:	£ s. d.		
per Electricity Net Revenue Account	539,539 6 7		
per Shannon Fisheries Profit and Loss Account ...	36,816 7 2		
		576,355 13 9	250,771
		£19,499,156 1 6	£18,901,456

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, 1945, 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 Accounts have 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, *2nd July*, 1945.

Alex. Thom & Co., Ltd