SIXTEENTH ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

(Including Report on Shannon Fisheries.)

DUBLIN

1942-43

SIXTEENTH

ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

Year ended 31st March, 1943.

(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, 1943.

(Including Report on the Shannon Fisheries.)

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REPORT

OF THE

Electricity Supply Board.

60-62 UPPER MOUNT STREET,
DUBLIN.

TO THE MINISTER FOR INDUSTRY AND COMMERCE.

In accordance with Section 7 (4) and Section 32 (1) of the Electricity (Supply) Act, 1927, the Board presents the Annual Report and Accounts for the year ended 31st March, 1943.

The conditions under which supply was maintained continued, throughout the year, to be very difficult. The quality of coal, already somewhat low, deteriorated further, and quantities adequate to meet requirements could not be secured. A scheme for the rationing of electricity was put into force early in the year.

The following are the summarised figures of income and expenditure for the years ended 31st March, 1943, and 31st March, 1942, respectively :—

	Year ended 31st March, 1943.	Year ended 31st March, 1942.
	£	£
Gross Revenue	2,236,534	2,191,596
Working expenditure (including depreciation)	1,453,659	1,500,419
Balance carried to Profit and Loss Account ...	782,875	691,177
Interest, repayment of advances and discharge of capital liabilities acquired with local authority undertakings	841,838	821,480
Deficit ...	58,963	130,303

Working expenses together with full provision for interest on capital, depreciation, repayment of advances to the Minister for Finance, and repayment of capital in respect of local authority liabilities exceeded revenue by £49,171, having taken credit for profits from the sale of appliances and consumers installations. This compares with a deficit of £121,554 in the preceding year. In the exceptional circumstances obtaining the Contingencies Reserve has been availed of to reduce the debit balance to be carried forward to £13,416.

Sales of electricity declined by 29,000,000 units as compared with an increase of

12,000,000 units in the preceding year. Nevertheless, by reason of the emergency addition of 10% in price in November, 1941, the revenue from sales increased by £40,738.

Although the expenditure on coal was appreciably lower than in the previous year, through more favourable water conditions in the winter, this saving was largely offset by increased costs of generation and repairs and maintenance, the payment of the bonus under Emergency Powers Order, and special expenditure in the operation of the rationing scheme.

The Depreciation accrued during the year in respect of assets which are subject to wear and tear amounted to £295,000, and has been charged in the Revenue Account as in previous years. Including this amount, the total sum available at 31st March, 1943, towards the replacement of wasting capital assets was £3,644,758. All plant and equipment have been maintained in a proper state of repair.

The Profit and Loss Account has been debited with the instalments of advances repayable in the year to the Minister for Finance amounting to £69,710, and the repayment of capital liabilities assumed from local authorities amounting to £13,328. The total of the latter liabilities which has been repaid at the 31st March, 1943, was £613,850, leaving a balance of £142,171, which in the main matures for repayment over the next few years.

The gross amount of capital invested in additional plant placed in commission during the year was £329,389, as compared with £419,062 in the preceding year.

The following is an analysis of this expenditure :—

	£
Generation	19,236
Transmission	75,979
Distribution	212,947
Equipment, Transport, etc.	21,227
	£329,389

The aggregate capital expenditure at 31st March, 1943, was £17,565,982.

The Board has been enabled by recourse to the Contingencies Reserve, set aside in earlier years, to cover almost wholly the deficiencies of the past two years. This Reserve has been exhausted. By reason of the restrictions on supply, the revenue, at existing prices, cannot be increased. Estimated increases in expenditure in the coming year under the headings of capital charges, repairs and maintenance, emergency bonus and staff superannuation will consequently result in a much heavier deficiency than in the present year.

It should be noted that the tariffs for electricity have been increased only by 10% since the commencement of the emergency.

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 fourteen 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

Appendix I gives details of the number of consumers in each area this year as compared with the previous year, and certain other particulars relating to supply. The total number of new consumers connected was **10,056.**

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, 1943	Year Ending 31st March, 1942		
Domestic	131,571,660	143,453,807	—11,882,147	— 8·3
General Lighting	22,375,462	26,983,170	— 4,607,708	—17·1
General Heating, Cooking and Water Heating ...	38,088,858	38,530,663	— 441,805	— 1·1
Motive Power	117,956,279	128,125,232	—10,168,953	— 7·9
Public Lighting	6,801,811	8,373,688	— 1,571,877	—18·8
Traction	7,146,725	6,314,520	832,205	13·2
Miscellaneous	4,111,481	5,471,224	— 1,359,743	—24·9
Totals ...	328,052,276	357,252,304	—29,200,028	— 8·2

RESTRICTIONS ON ELECTRICITY SUPPLY.

Because of the restrictions in coal deliveries and the low grade quality of the coal available, the Board, in consultation with the Department of Supplies, found it necessary to introduce restrictions in electricity supply from the beginning of the summer. Connections of new consumers were discontinued and restrictions on the consumption of electricity by existing consumers introduced. The favourable water position on the Shannon permitted of the modification of these restrictions in September. New connections were resumed but confined to electricity supply for limited lighting purposes only. As a result of further consultations with the Department of Supplies an inter-departmental committee consisting of representatives of the Department of Supplies, Department of Industry and Commerce and the Department of Agriculture was set up to advise the Board on applications for electricity supply for industrial purposes. The granting of supply by the Board for these purposes was subject to the recommendations of this committee.

Details of the restrictions on consumption will be found in Appendix II.

TARIFFS.

The 10 per cent. emergency increase was continued in operation during the year. The low unit rate for " continuous lighting " was withdrawn as from 30th June. To discourage consumption of electricity generated from coal during the summer months all unit rates under ¾d. plus 10 per cent. in the schedules of charges for domestic supplies, water heating and cooking, were increased to ¾d. plus 10 per cent. for the accounting periods May to September.

SALE OF APPLIANCES.

As a result of the restrictions on sales of appliances, there was a decrease in the turnover, which amounted to £45,642 as compared with £80,555 for the previous year. The rate of gross profit on sales was 20·5%. Having been charged with overhead expenses and interest on working capital, the Merchandise Trading Account showed a net profit of £3,135. The cost value of transactions for which credit has not yet been taken, amounted in the present year to £10,754 as against £26,598 for the previous year.

CONSUMERS' INSTALLATION DEPARTMENT.

The credit taken for contracts completed and invoiced for work carried out by the Department amounted to £79,630 as compared with £81,674 for the previous year. The rate of gross profit was 27·8%. Having debited to the Installations Trading Account overhead expenses and interest on working capital, there was a net profit of £8,246.

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	GENERATION IN KWH.			Main System Stations.	
	Main System Stations	Local Stations	Total of all Stations	Maximum Daily Output in KWH.	Maximum Load in K.W.
1943	Ardnacrusha ... 293,704,400 Pigeon House ... 119,921,600 Cork ... 7,100				
	Total ... 413,633,100	101,300	413,734,400	1,719,200	112,000
1942	Ardnacrusha ... 240,335,700 Pigeon House ... 209,406,100 Cork ... 121,000				
	Total ... 449,862,800	549,000	450,411,800	1,806,200	119,500
	Decrease during year ended 31st March, 1943 ...	—	36,677,400	87,000	7,500

The total output for all stations represents a decrease of 8% on the output of the previous year. The average yearly load for the main system was 47,220 KW. The yearly load factor, on the basis of units generated, was 42·2% compared with 43·1% last year. The yearly load factor was again influenced by the continuation of " Summer Time " through the winter, and also by the rationing restrictions in force particularly during the months from May to September, 1942.

A small number of units (628,600) 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 main generating stations ... Appendix VII.
(vi) Weekly summary of operating conditions ... ... Appendix IX.
(vii) Graph showing annual output from 1st April, 1928, to 31st March, 1943 ... ... Appendix XII.

LIFFEY HYDRO-ELECTRIC DEVELOPMENT.

Certain portions of the mechanical and electrical equipment necessary for the operation of the Liffey Scheme have not yet been delivered.

The civil engineering construction works have been finished and the reservoirs at Poulaphouca and Golden Falls have been filled.

Plans for a hydro-electric development at Leixlip on the Lower Liffey are nearing completion.

WATER POWER RESOURCES.

Further progress was made in the collection of data towards the investigation and possible later development of water power resources. For the purpose of ascertainment of the flow conditions in a number of rivers over a sufficiently long period of years rainfall and river flow measurement instruments had been installed from time to time at suitable stations. In co-operation with the Meteorological Service of the Department of Industry and Commerce, and as part of the general programme of this service, additional stations have been erected at important points.

The greater part of the work necessary for the submission of possible schemes for the hydro-electric development of the River Erne has been completed.

The hydrometric surveys of various rivers in the country, including, in particular, the Rivers Boyne, Lee and Barrow, have been advanced further during the year.

The erection of flow measuring weirs was undertaken on three mountain streams in County Kerry, viz., the Torc, Owgariff, and Commeragh Rivers, to provide continuous records of the flow conditions. A number of mountain rainfall stations has also been erected in the area in collaboration with the Meteorological Service.

RURAL ELECTRIFICATION.

During the year a comprehensive report was submitted to the Government dealing with the technical, administrative and financial aspects of the problem of the extension of supply of electricity to the farming community.

TRANSMISSION AND DISTRIBUTION SYSTEMS.

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

	Miles.
(1) Low tension overhead mains	24·62
(2) Low tension overhead mains (reconstructed or strengthened) ...	10·30
(3) Low tension underground mains	4·70
(4) 5 kV. underground cables	2·08
(5) 10 kV. underground cables	1·3
(6) 10 kV. overhead transmission lines	58·49

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

Two new 38 kV transformer stations were placed in commission, one at the site of the Old Pembroke Generating Station in Dublin, and the other at Mount Merrion, Co. Dublin.

Work was commenced on two new 38 kV stations at Ballymun, Co. Dublin, and Dundalk.

During the year 46 new 10 kV. transformer stations were placed in commission, and seven were retired from service.

WATER STORAGE AND SHANNON RIVER CONTROL.

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

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

The average inflow to the catchment at Killaloe for the year was 175·5 cbm/sec. The inflow and the rainfall for the year was slightly below the long term mean. The rainfall in July, August and September was above the average. There was a dry spell in November and another exceptionally prolonged dry spell in February and March. On the whole, however, the distribution of rainfall was not unfavourable from the point of view of power generation. The water used for power generation amounted to 84·8 per cent. of the total inflow for the year.

(The average inflow to the catchment at Killaloe for the calendar year 1942 was 169·0 cbm/sec.)

The important hydrometric figures for the year ended 31st March, 1943, are as follows :—

Total average rainfall in Shannon catchment ...	38·2	inches.
Average inflow to Shannon catchment	175·4	cbm/sec.
Average water used at Ardnacrusha Power Station ...	148·8	cbm/sec.
Average water used per unit generated	16·0	cbm.
Maximum level reached in Lough Derg	33·7	mtrs. O.D.
Minimum level reached in Lough Derg	32·9	mtrs. O.D.
Average available head at Ardnacrusha Power Station ...	28·3	metres.
Maximum available head at Ardnacrusha Power Station	30·3	metres.
Minimum available head at Ardnacrusha Power Station	25·0	metres.

PERMITTED UNDERTAKINGS.

At the 31st March, 1943, there were 83 permitted undertakings holding permits from the Board as compared with 84 at the end of the previous year. During the year one new permit was issued and two were not renewed owing to cessation of supply. Particulars of all permitted undertakings, except where the number of consumers is three or under, are contained in Appendix XI.

STAFF.

The numerical strength of the Board's regular staff at the 31st March, 1943, was 2,380, which includes employees absent with the Defence Forces and seconded to Government Departments.

The Superannuation Schemes covering the general employees and manual workers were completed by the Board in accordance with Section 4 of the Electricity Supply Board (Superannuation) Act, 1942, and were submitted for approval and confirmation under Section 5 of the Act.

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.

6th July, 1943.

REPORT

ON THE

SHANNON FISHERIES.

60-62 UPPER MOUNT STREET,
DUBLIN.

TO THE MINISTER FOR INDUSTRY AND COMMERCE.

In accordance with the provisions of Sections 17 and 18 of the Shannon Fisheries Act, 1935, the Board presents the Annual Report and Accounts for the year ended the 31st March, 1943.

The proceeds from the sale of fish, including eels, and from the letting of fishing rights, amounted to £30,153, as compared with £20,235 in the preceding year. The surplus on the Profit and Loss Account, having charged interest and sinking fund on the capital invested in the Fisheries, was £6,450. In the previous year the surplus was £2,504.

SALMON FISHERIES.

The measures which have been taken during the past few years are slowly proving effective in the improvement of the salmon fisheries. There was an increase in the run of spring salmon. The spawning season this year was good ; the number of salmon observed in the redds in Castleconnell was much higher than in any previous season since the hydro-electric development of the Shannon. The salmon were found to have spawned in parts of the river in which they had not spawned before. Big salmon were also observed in the Nenagh River, one of the tributaries entering Lough Derg. The favourable reports of the previous two years' spawning seasons were borne out by the unusual number of salmon fry ; the main river extending from World's End Dam to Corbally was thickly populated with fry.

During the year most of the initial difficulties in the operation of the Thomond weir were surmounted. In addition to the fishing at this weir, a number of stake weirs were in operation for the full season and proved very successful. The total revenue realised from sales of salmon amounted to £17,540 as compared with £13,278 in the preceding year.

The average weight of salmon taken at the Thomond Weir was 15·6 lbs., and at the stake weirs was 11·5 lbs. The average weight of the grilse was 5 lbs.

The statistical records of the run of fish at the Thomond Weir show the following figures :—

	Year ended 31st March, 1943.	Year ended 31st March, 1942.
April	1,472	1,101
May	2,059	3,896
June	12,840	15,065
July	1,138	1,417
...	...	...
February	113	94
March	1,059	735

The arrangements at the Thomond Weir provide for the minimum handling of the salmon. They are boxed immediately and placed in a cold room. Within twenty-four hours of capture the fish are in transit to the market, each box having been heavily iced before despatch so that the fish arrive in the best possible condition.

SALMON ROD FISHERIES.

Owing to the difficult conditions obtaining at present, the amenities of the rod fisheries have not been availed of fully. There is no doubt that the angling prospects have improved appreciably and, in anticipation of a future demand, close attention is being given to the development of the potentialities of these fisheries.

EEL FISHERIES.

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

	Year ended 31st March, 1943.	Year ended 31st March, 1942.
Athlone	3,187 lbs.	10,405 lbs.
Castleconnell	2,929 „	1,176 „
Killaloe	44,012 „	20,127 „
Inny (Ballymahon)	9,904 „	10,142 „

The revenue derived from eels shipped was £12,067 as compared with £6,287 for the preceding year. The eels realised the highest price secured in the London market during the past season. The price, which fluctuated between 4s. and 5s. per lb., was abnormally high.

The substantial increase in the catch at Killaloe was primarily owing to the excellent fishing conditions but was in part attributable to the operation of the eel traps used in slack water, and to the diversion of eels into the fishing cribs by the introduction of lights. The take in Castleconnell remained low because of unfavourable water conditions. The catch at the Athlone Weir was seriously affected by reason of long line fishing in the upper reaches of the Shannon, its lakes and tributaries. The Board is aware that about 20 tons of immature eels were exported. If allowed to mature these eels would treble in value, and consequently a serious loss is involved in exporting them before they are quite half grown. It is the Board's intention in the coming year to have this area patrolled intensively by keepers paid out of the funds of the Shannon Fisheries.

Plans are being prepared for the erection of a new type of weir in the River Inny. This weir will be automatic. The eels will be led directly into the tanks ; nets or other appliances will not be required. The erection of this weir is at present being discussed with the Fisheries Board, Department of Agriculture.

OYSTER FISHERIES.

This year it was decided to close down the oyster plant for the duration of the emergency as it was not found economic to operate it in view of the limited stock of oysters on the beds. The feasibility of undertaking the breeding of oysters in tanks is under investigation.

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

PATRICK J. DEMPSEY, Secretary.

6th July, 1943.

LIST OF APPENDICES.

Appendix.

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

II.—Restrictions in electricity supply

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.—Transmission and distribution systems in commission.

IX.—Weekly summary of operating conditions.

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

XI.—Particulars of authorised and permitted undertakings providing supply at 31st March, 1943.

XII.—Units generated from 1st April, 1928, to 31st March, 1943.

DUBLIN No. 1 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Dublin–Rathmines–Pembroke	475,594	74,360	77,239	32,039	32,929
Terenure-Kimmage ...		2,779	2,871		
Crumlin		7,171	7,659		
Rathfarnham		873	905		
Templeogue		169	177	8	9
Firhouse		31	31	Nil	Nil
Woodtown		1	1	284	284
TOTALS ...	475,594	85,384	88,883	32,331	33,222

CORK No. 1 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Cork City	99,011	14,210	14,978	18,265	18,889
TOTALS ...	99,011	14,210	14,978	18,265	18,889

ATHLONE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Ahascragh	269	45	45	14	14
Ardagh (Co. Longford) ...	—	12	11	1	1
Athleague	208	30	32	15	15
Athlone	7,257	1,480	1,516	1,781	2,229
Ballinagar	—	4	4	Nil	Nil
Ballinasloe	5,834	522	548	435	445
Ballygar	335	79	82	32	32
Ballymahon	643	96	99	52	52
Banagher	720	106	111	109	109
Birr	—	1	1	54	54
Borrisokane	551	153	157	5	5
Clara	1,590	300	315	372	372
Cloghan	188	23	26	8	8
Daingean (or Philipstown)	518	63	62	14	14
Edgeworthstown (or Mostrim)	515	97	105	28	43
Eyrecourt	323	30	32	Nil	Nil
Ferbane	301	78	76	2	2
Granard	1,236	159	169	27	27
Kilbeggan	593	106	113	10	10
Kilcormac (or Frankford)	448	47	52	15	15
Longford	3,807	572	625	88	103
Lorrha	98	27	27	Nil	Nil
Moate	1,326	163	176	2	2
Mullingar	5,237	850	902	514	555
Newtownforbes	369	40	41	45	45
Portumna	—	1	3	325	345
Roscommon	2,040	388	408	66	71
Tullamore	5,135	896	920	1,787	1,787
TOTALS ...	39,541	6,368	6,658	5,801	6,355

DUBLIN No. 2 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Baldoyle	765	166	188	12	12
Howth and Sutton ...	4,832	1,100	1,148	80	143
Raheny	—	246	260	10	10
Coolock	349	54	56	2	2
Artane	996	62	63	Nil	Nil
Santry	116	80	87	24	46
Finglas	1,383	292	306	114	114
Chapelizod	—	279	306	74	86
Knockmaroon	—	8	8	Nil	Nil
Lucan	867	324	336	72	323
Ballydowd	—	20	20	Nil	Nil
Palmerstown	208	33	33	56	56
Bluebell	399	55	57	Nil	10
The Ranch	—	114	130	15	176
Blackrock and Monkstown	54,129	2,864	3,196	510	505
Cabinteely		70	73	23	23
Carrickmines		81	81	6	6
Dalkey		720	779	115	115
Dundrum—Sandyford ...		1,827	1,906	58	38
Dun Laoghaire		3,164	3,470	591	677
Foxrock		331	329	37	34
Killiney—Ballybrack ...		362	394	73	73
Kill-o'-the-Grange ...		92	94	43	43
Stillorgan		197	218	147	166
Shankill—Loughlinstown ...	2,332	336	352	12	12
Bray	10,347	2,031	2,189	1,337	1,352
Greystones	1,535	552	556	12	10
Ashford	—	48	48	30	30
Balbriggan	2,434	355	375	184	194
Balgriffin	—	55	55	20	20
Ballymore Eustace ...	338	79	85	825	33
Balrothery	—	11	11	Nil	Nil
Blanchardstown	417	129	143	32	32
Blessington	289	99	102	21	50
Castleknock	1,789	143	142	35	35

DUBLIN No. 2 DISTRICT—*continued.*

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Celbridge	627	153	163	125	125
Clane	145	30	31	Nil	Nil
Clondalkin	967	202	210	2,051	2,041
Clonee	112	18	18	4	11
Clonsilla—Porterstown ...	819	100	102	30	30
Delgany—Killincarrig ...	1,060	183	204	8	8
Donabate	186	146	150	5	15
Dunboyne	290	52	55	22	25
Enniskerry	—	7	10	Nil	Nil
Glenealy	—	1	2	45	45
Kilcock	475	71	74	34	34
Kill and Johnstown ...	95	45	43	Nil	Nil
Kilmacanogue	—	27	28	Nil	Nil
Kiltiernan—Scalp ...	713	115	111	Nil	5
Leixlip	571	141	165	80	89
Lusk	305	71	76	4	4
Malahide	1,259	340	352	7	7
Maynooth	632	113	116	96	100
Naas	3,290	560	576	363	363
Newtownmountkennedy ...	208	147	148	34	44
Portmarnock	516	125	127	10	10
Poulaphouca	—	3	6	1,007	810
Rathcoole	223	69	71	6	6
Rathdrum	504	164	188	9	52
Rathnew	547	91	92	9	9
Rush	1,651	320	333	30	30
Saggart	116	39	42	913	913
Sallins and Clongowes ...	276	37	38	309	309
Skerries	2,134	536	537	80	64
Stepaside	102	19	18	Nil	Nil
Swords	838	238	248	203	203
Tallaght	406	86	89	147	147
Wicklow	3,183	483	495	346	356
TOTALS ...	105,775	21,111	22,514	10,547	10,281

CORK No. 2 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Ballinacurra	403	76	80	172	172
Ballincollig	260	29	35	Nil	Nil
Ballineen	272	55	56	10	10
Bandon	3,500	583	673	514	514
Bantry	2,643	401	416	112	127
Bishopstown	97	40	46	97	97
Blarney	723	168	170	74	74
Buttevant	881	174	179	61	61
Carrigaline	315	79	84	15	15
Carrigtwohill	402	42	44	Nil	Nil
Castlelyons	113	21	24	110	110
Castlemartyr	346	56	57	5	5
Castletownroche	443	67	69	12	12
Clonakilty	2,961	477	493	495	495
Cloyne	684	75	89	48	110
Cobh	6,272	806	878	155	1,145
Courtmacsherry	221	38	37	4	4
Crookstown	—	19	20	116	164
Crosshaven	724	138	146	60	60
Doneraile	740	135	138	31	31
Drimoleague	344	Nil	57	Nil	Nil
Drinagh	—	19	20	359	359
Drommahane	96	17	17	Nil	Nil
Dunmanway	1,561	243	251	146	158
Enniskeane	162	30	31	2	2
Fermoy	4,123	528	532	381	385
Glandore	124	14	15	Nil	Nil
Glanmire	213	74	76	Nil	Nil
Glanworth	261	50	49	Nil	Nil
Haulbowline	—	9	11	2,493	2,493
Innishannon	182	24	26	Nil	Nil
Kildorrery	236	58	56	Nil	Nil
Killeagh	235	28	31	Nil	Nil
Kilnap	272	45	48	119	119
Kinsale	2,661	407	417	121	121
Leap	157	32	33	Nil	Nil
Macroom	2,382	426	443	41	116
Mallow	4,948	829	912	216	216
Midleton	2,711	377	394	222	227
Mitchelstown	1,902	445	452	236	236
Mogeely	—	7	7	Nil	Nil
Mount Desart	—	1	1	Nil	Nil
Passage West	2,648	214	245	14	14
Monkstown		148	148	Nil	Nil
Rochestown	—	1	1	6	6
Skibbereen	2,541	473	484	129	129
Timoleague	248	47	47	Nil	Nil
Upper Aghada	155	16	16	Nil	Nil
Whitegate	286	67	67	Nil	Nil
Youghal	5,131	473	536	184	202
TOTALS ...	55,579	8,581	9,157	6,760	7,989

DUNDALK DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
An Uaimh (Navan) ...	4,123	784	818	659	935
Ardee	2,383	229	243	169	286
Arvagh	525	79	80	11	11
Athboy	520	110	115	60	85
Bailieborough	854	179	181	143	263
Ballybay	1,034	213	209	30	41
Ballyjamesduff	434	89	98	23	12
Belturbet	1,341	174	203	121	201
Bettystown—Laytown ...	143	95	104	46	44
Blackrock (Louth) ...	695	125	135	26	22
Butler's Bridge	96	19	20	Nil	Nil
Carrickmacross	2,095	352	375	166	163
Castleblayney	1,725	284	309	90	256
Cavan	3,393	513	553	228	263
Ceanannus Mór (Kells) ...	2,304	373	389	275	232
Clones	2,235	435	469	51	113
Cootehill	1,593	235	239	189	157
Dowdstown	—	2	2	54	40
Drogheda	14,494	1,849	1,981	2,270	3,068
Dundalk	16,214	2,680	2,879	3,298	3,710
Kilcairne	—	1	1	96	88
Killeshandra	473	82	89	229	391
Kingscourt	631	73	110	295	295
Monaghan	4,780	448	630	424	850
Mornington-Donacarney ...	115	31	36	Nil	2
Newtown	—	1	1	10,451	10,588
Oldcastle	586	135	139	26	28
Randalstown	—	1	1	Nil	Nil
Roughgrange	—	2	2	120	124
Shercock	228	54	55	15	17
Trim	1,455	219	224	52	53
Virginia	418	87	88	12	12
TOTALS ...	64,887	9,953	10,778	19,629	22,350

GALWAY DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Athenry	1,048	204	205	78	78
Ballyhaunis	1,160	241	243	50	50
Castlebar	4,826	702	713	394	394
Claremorris	1,132	331	337	244	244
Galway	18,294	2,916	3,033	1,708	1,700
Gort	1,034	196	203	108	119
Kinvara	420	39	38	Nil	Nil
Loughrea	2,891	294	302	135	135
Newport (Mayo) ...	353	83	85	17	17
Oranmore	184	24	23	Nil	Nil
Tuam	4,181	760	781	148	148
Westport	3,409	583	610	412	412
TOTALS ...	38,932	6,373	6,573	3,294	3,297

LIMERICK DISTRICT.

Appendix I—continued.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Adare	497	98	100	100	171
Annacotty	—	24	24	90	90
Ardagh	119	22	23	91	91
Ardnacrusha and Clonlara	249	75	75	338	338
Askeaton	581	96	98	42	42
Ballingarry (Co. Limerick)	339	53	61	72	72
Ballylanders	193	37	38	Nil	15
Birdhill	—	12	13	15	15
Bruff	349	75	73	13	13
Bruree	250	43	45	69	69
Bulgaden	—	2	2	Nil	Nil
Cahir	1,638	322	329	228	248
Cappamore	558	66	68	168	168
Cappawhite	426	45	46	3	3
Cashel	3,028	360	385	166	166
Castleconnell	219	69	71	Nil	Nil
Castlemungret	—	1	1	2,670	2,670
Castletroy	—	26	29	16	203
Castlemahon	72	14	15	93	93
Clarecastle	549	88	94	Nil	Nil
Cloncagh	—	4	4	74	74
Croom	791	94	98	16	56
Doon	478	54	60	24	24
Elton	—	9	10	100	100
Ennis	5,897	1,066	1,102	497	501
Ennistymon	1,264	238	250	159	156
Galbally	195	30	31	20	20
Garryspillane	—	3	3	57	57
Hospital	609	98	107	36	38
Herbertstown	85	13	19	136	136
Kilfinane	818	137	137	54	54
Kilkee	1,863	278	280	8	8
Kilkishen	108	18	18	Nil	Nil
Killaloe and Ballina (Tipp.)	1,066	202	218	98	98
Kilmallock	861	239	243	250	250
Kilrush	3,426	432	443	258	288
Knocklong	—	24	25	246	246
Lahinch	327	65	67	1	1
Lattin	—	1	1	93	93
Limerick City	43,663	7,643	8,081	7,884	8,004
Limerick Junction ...	206	40	40	35	35
Lisdoonvarna	193	106	110	21	21
Martinstown	—	1	1	Nil	Nil
Miltown-Malbay	809	161	163	6	6
Murroe	—	2	2	40	40
Nenagh	4,902	724	735	817	895
Newcastle West	2,943	372	408	214	214
New Inn	117	13	16	96	96
Newmarket-on-Fergus ...	368	83	85	18	18
Newport (Tipp.) ...	494	88	88	138	138
Newtown (Ráth Luirc) ...	106	Nil	1	Nil	87
Rathkeale	1,565	215	232	123	135
Ráth Luirc (Charleville) ...	1,625	314	326	280	279
Rineanna and Ballygireen	—	13	14	276	276
Solohead	—	9	9	49	49
Spanish Point	—	3	3	Nil	Nil
Tipperary	5,384	597	626	400	588
Tulla	474	92	95	6	6
TOTALS ...	89,704	15,009	15,741	16,704	17,554

PORTLAOIGHISE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Abbeyleix	664	155	155	36	36
Athy	3,628	563	593	502	502
Ballinakill	338	54	55	Nil	2
Baltinglass	659	163	178	12	18
Ballybrophy	—	1	2	7	7
Ballymany—Loughbrown ...	—	42	49	29	32
Ballyragget	449	74	80	20	22
Ballyroan	127	14	19	Nil	Nil
Borris-in-Ossory	216	37	36	1	1
Borrisoleigh	544	81	85	34	34
Brownstown	226	63	102	5	5
Callan	1,516	209	243	244	236
Carlow	7,649	898	959	644	637
Castlecomer	809	183	190	1,216	1,216
Castledermot	276	100	108	78	78
Clogh	167	7	37	Nil	Nil
Curragh Camp	—	1	1	258	258
Droichead Nua (Newbridge)	2,375	489	514	923	958
Dunlavin	332	79	75	3	9
Durrow	462	80	81	6	6
Edenderry	2,093	371	384	241	259
Freshford	456	83	87	105	105
Hacketstown	377	99	91	3	3
Johnstown (Co. Kilkenny)	307	51	52	2	2
Kilcullen	441	110	111	11	11
Kildare	1,758	366	420	146	145
Kilkenny	10,237	1,220	1,351	682	758
Kiltegan	101	19	22	Nil	Nil
Leighlinbridge	425	71	79	109	109
Monasterevan	580	96	99	110	110
Mountmellick	2,314	318	332	97	111
Mountrath	1,116	162	174	15	15
Muine Bheag (Bagenalstown)	1,897	275	290	160	163
Portarlington and Clonsast	1,851	404	432	971	1,021
Portlaoighise	3,396	641	690	781	779
Rathangan	431	48	53	44	44
Rathdowney	825	149	157	9	9
Roscrea	3,060	519	533	608	605
Stradbally	762	117	120	23	23
Talbot's Inch	108	29	29	7	7
Templemore	1,981	269	277	126	126
The Swan	—	9	26	462	514
Thurles	5,648	827	872	266	328
Tullow	1,616	287	297	55	58
Urlingford	528	60	61	7	7
TOTALS ...	62,745	9,893	10,601	9,058	9,369

SLIGO DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Arigna	—	7	8	259	259
Ballaghaderreen	1,122	284	292	74	69
Ballina	5,728	1,111	1,175	416	416
Ballymote	738	161	160	109	109
Boyle	—	1	1	36	36
Carrick-on-Shannon ...	1,015	306	311	85	77
Castlerea	1,313	309	313	123	123
Charlestown and Bellahy ...	773	187	193	16	21
Convoy	369	Nil	1	Nil	717
Crocketstown (Ballina Quay)	171	21	21	Nil	Nil
Crossmolina	660	121	131	44	44
Curry	—	16	16	Nil	Nil
Elphin	548	104	108	2	2
Foxford	805	155	154	244	244
Gurteen	—	38	36	8	8
Inniscrone	399	99	101	Nil	Nil
Kilkelly	160	Nil	50	Nil	Nil
Killala	449	67	67	Nil	Nil
Kiltimagh	1,090	205	207	39	47
Letterkenny	2,649	420	441	80	69
Lifford	478	Nil	7	Nil	57
Mohill	714	157	154	9	19
Sligo	12,565	1,798	1,879	633	1,149
Strokestown	628	146	148	26	26
Swinford	1,203	285	283	82	83
Tubbercurry	823	167	162	40	38
TOTALS ...	34,400	6,165	6,419	2,325	3,613

TRALEE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Abbeyfeale	1,122	201	209	55	55
Ballylongford	514	64	66	89	89
Boherbue	242	50	50	99	99
Castleisland	1,325	252	277	206	206
Castlemaine	104	21	22	157	157
Dromtariffe	—	2	2	48	48
Edenburn	—	1	1	18	18
Glin	516	75	74	73	73
Kanturk	1,555	280	287	393	393
Killarney	5,609	721	761	227	280
Killorglin	775	205	212	80	80
Listowel	3,098	520	552	519	514
Millstreet	975	192	193	120	130
Miltown	311	63	62	16	16
Newmarket	838	156	159	83	198
Newtownsandes	230	36	35	9	44
Rathmore	184	23	26	124	124
Tarbert	315	46	46	32	32
Tralee	10,620	2,001	2,053	1,286	1,367
TOTALS ...	28,333	4,909	5,087	3,634	3,923

WATERFORD DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Arklow	4,680	831	852	409	621
Ballyhale	102	24	24	Nil	10
Ballypatrick	—	2	4	33	76
Cappagh	—	1	1	12	25
Cappoquin	1,038	168	168	35	59
Carnew	516	60	60	Nil	10
Carrick-on-Suir	4,840	642	698	290	652
Clonmel	9,391	893	946	465	768
Dungarvan	5,361	840	897	622	880
Dunmore East	308	79	83	16	5
Enniscorthy	5,873	746	784	506	726
Ferns	342	71	79	21	113
Fethard	1,112	197	203	67	389
Gorey	2,323	348	378	68	413
Graiguenamanagh and Tinnahinch	1,125	127	173	84	109
Lismore	1,194	204	210	45	93
New Ross	5,056	705	736	497	798
Newtownbarry and Carrickduff	766	170	172	39	45
Passage East	431	55	56	Nil	5
Piltown	287	53	56	139	238
Portlaw	847	151	156	469	813
Rosslare Harbour and Kilrane	629	114	102	239	239
Rosslare Strand	189	58	62	37	47
Taghmon	345	34	49	Nil	Nil
Tallow	779	125	131	31	34
Thomastown	769	125	145	34	42
Tramore	2,047	616	632	72	50
Waterford	27,968	4,214	4,356	3,145	4,926
Wexford	12,247	810	873	1,152	1,240
TOTALS ...	90,565	12,463	13,086	8,527	13,426

SUMMARY.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1942	1943	1942	1943
Athlone District ...	39,541	6,368	6,658	5,801	6,355
Cork No. 1 District ...	99,011	14,210	14,978	18,265	18,889
Cork No. 2 District ...	55,579	8,581	9,157	6,760	7,989
Dublin No. 1 District	475,594	85,384	88,883	32,331	33,222
Dublin No. 2 District	105,775	21,111	22,514	10,547	10,281
Dundalk District ...	64,887	9,953	10,778	19,629	22,350
Galway District ...	38,932	6,373	6,573	3,294	3,297
Limerick District ...	89,704	15,009	15,741	16,704	17,554
Portlaoighise District	62,745	9,893	10,601	9,058	9,369
Sligo District ...	34,400	6,165	6,419	2,325	3,613
Tralee District ...	28,333	4,909	5,087	3,634	3,923
Waterford District ...	90,565	12,463	13,086	8,527	13,426
TOTALS ...	1,185,066	200,419	210,475	136,875	150,268

Reprint of Advertisement from the Daily Papers, 18th May, 1942

ELECTRICITY SUPPLY BOARD.

Notice to Electricity Consumers

RESTRICTIONS IN ELECTRICITY SUPPLY

In accordance with the General Conditions relating to electricity supply by the Board, the Board hereby gives notice that as and from Tuesday, 19th May, 1942, until further notice, the following restrictions in electricity supply shall have effect :

RESTRICTION No. 1 The use of electricity for space heating by consumers is prohibited. **Note : This prohibition covers the use of electric fires, heaters, radiators, tubular heaters and all forms of space heating, direct or indirect by electricity.**

RESTRICTION No. 2 The use of electricity for the heating of water in storage cylinders for hot water supply is not to exceed 50% of the consumption for this purpose by the consumer in the corresponding period of last year.

RESTRICTION No. 3 The use of electricity for cooking purposes is not to exceed the consumption for this purpose by the consumer in the corresponding period of last year.

RESTRICTION No. 4 The use of electricity for all purposes, other than motive power and other than the purposes already covered by Restrictions 1, 2 and 3, is not to exceed 75% of the consumption for these purposes by the consumer in the corresponding period of last year.

RESTRICTION No. 5 The use of electricity for motive power purposes is not to exceed 90% of the consumption for this purpose by the consumer in the corresponding period of last year.

PENALTY FOR FAILURE TO COMPLY WITH RESTRICTIONS

Note : The consumption in the corresponding period of last year is to be interpreted as the average daily consumption calculated from the electricity bill furnished covering that period.

The attention of consumers is drawn to the following clause in the General Conditions relating to electricity supply by the Board :—

CLAUSE 15A During such period or periods as in the opinion of the Board the National interests may so require, the Board shall have power to restrict or ration the quantity of electricity supplied to the consumer for consumption either generally or for a particular purpose. Such restrictions may be notified from time to time by the Board to the consumer by announcement in the Press or by notice in writing to the consumer, and shall become effective on such date as shall be fixed by the Board. Should the consumer in the opinion of the Board fail to comply satisfactorily with any such restriction, he shall be deemed to have committed a breach of his contract with the Board, and the Board shall be entitled forthwith to discontinue supply to the consumer and may disconnect supply without prior notice to the consumer.

By Order of the Board dated this 12th day of May, 1942.

(Signed) PATRICK J. DEMPSEY, Secretary.

60/62 UPPER MOUNT STREET, DUBLIN.

APPENDIX II.

Reprint of Advertisement from the Daily Papers, September 12th, 1942

ELECTRICITY SUPPLY BOARD.

Notice To Electricity Consumers

RESTRICTION IN ELECTRICITY SUPPLY

In accordance with the General Conditions relating to electricity supply by the Board, the Board hereby gives notice that as and from Friday, 11th September, 1942, the restrictions imposed on consumers by order of the Board dated 12th day of May, 1942 (amended 16th June, 1942) are hereby revoked. In lieu thereof the following restriction has been imposed, commencing Friday, 11th September, 1942 :—

Until further order the total consumption for all purposes of any consumer shall not exceed in any day the average daily total consumption for all purposes of such consumer upon the same premises in the corresponding accounting period of such consumer in the previous year.

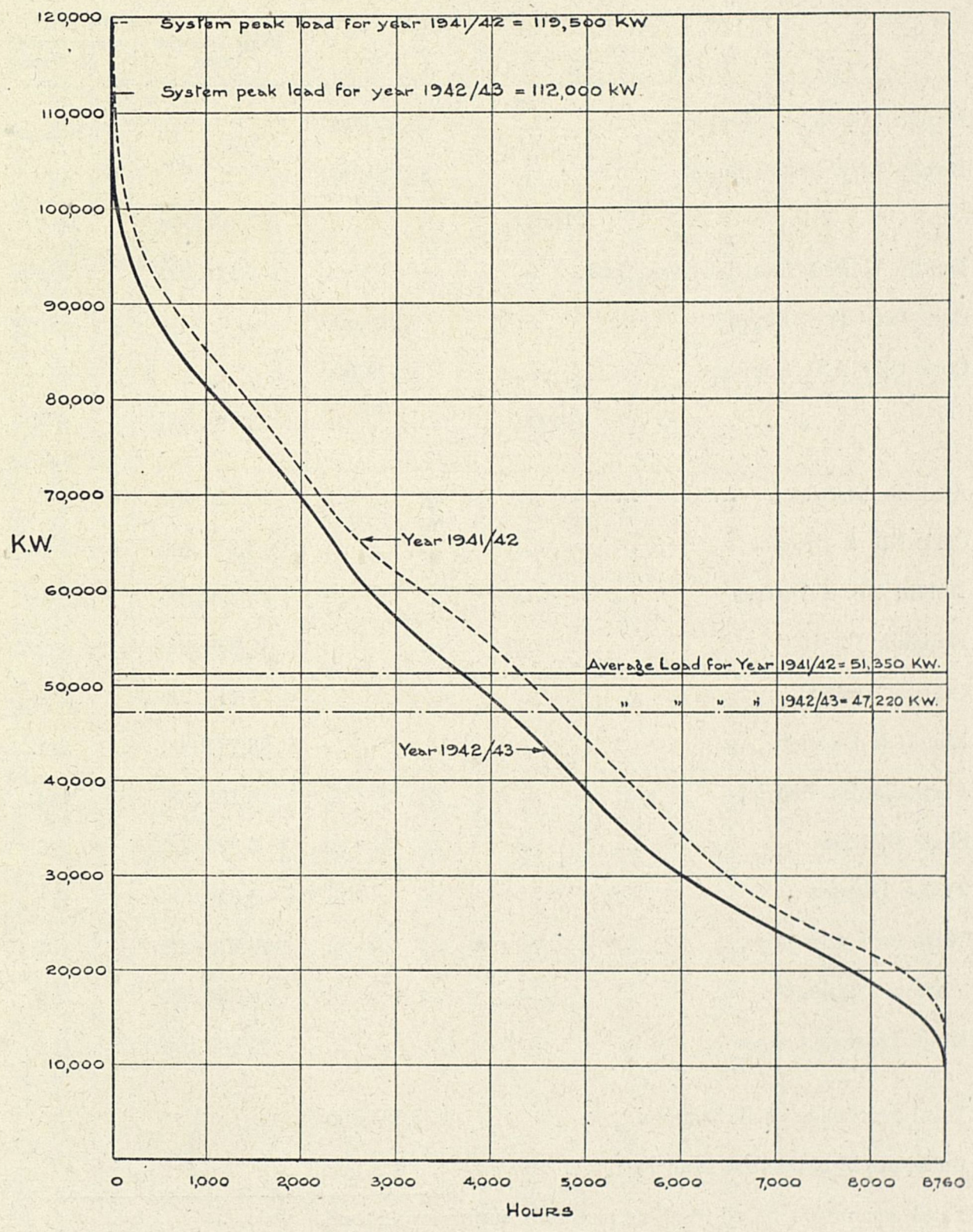
By Order of the Board dated this 11th day of September, 1942.

(Signed) PATRICK J. DEMPSEY,
Secretary.

60/62 UPPER MOUNT STREET, DUBLIN.

DURATION OF LOAD—MAIN SYSTEM GENERATION

YEAR ENDING 31ST MARCH, 1943. APPENDIX III.



Distribution at High Tension of Units generated and purchased in bulk from the Electricity Board for Northern Ireland.
Year ending 31st March, 1943.

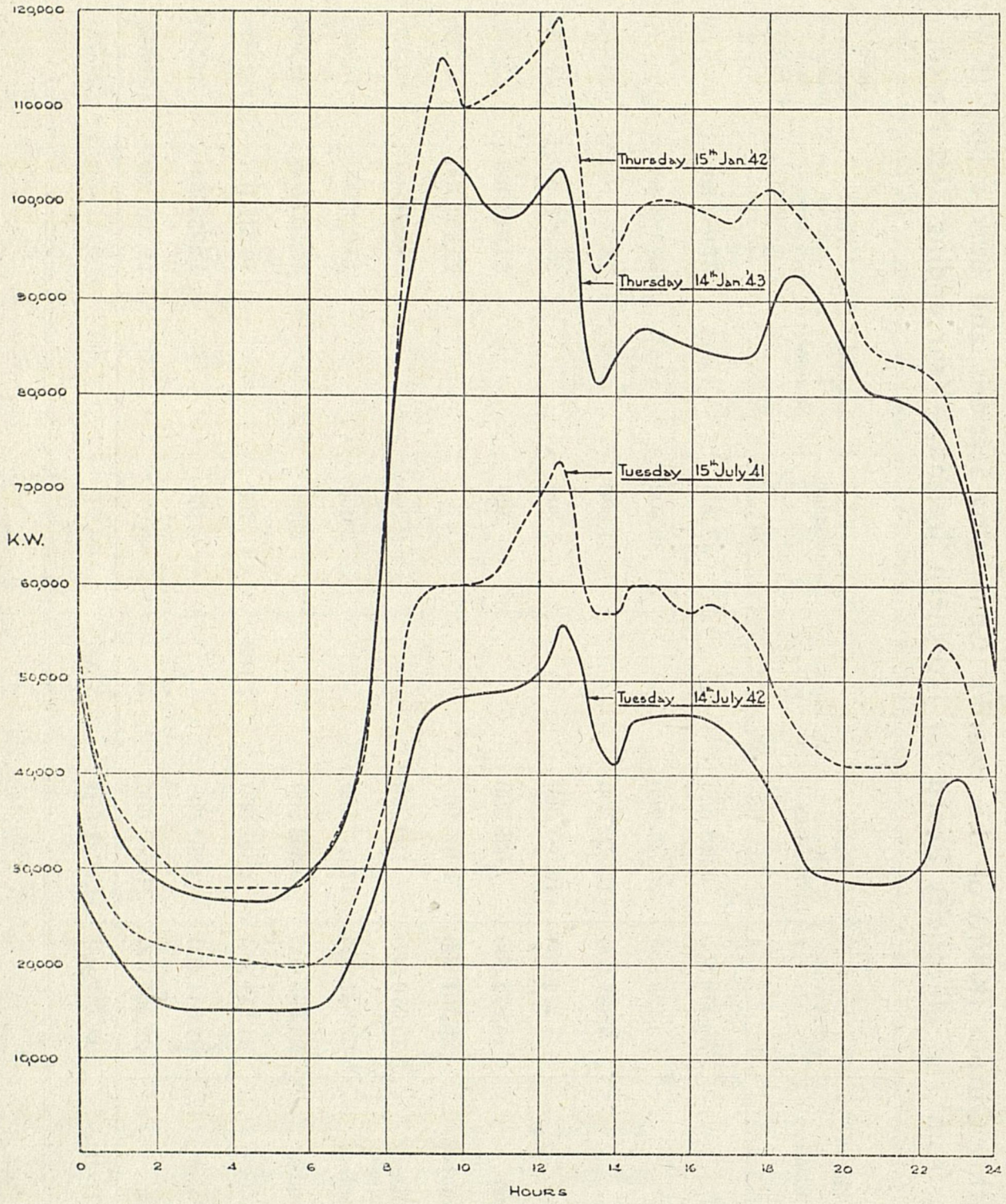
District			High Tension Units	Percentage of Total
Dublin City 5 kV. Supply	94,453,000			
Dublin City 10 kV. Supply	32,951,000			
TOTAL			127,404,000	30·7
Dublin United Transport Co., Ltd.			7,146,700	1·7
Cork City D.C. Supply	9,319,000			
Cork City A.C. Supply	4,579,000			
TOTAL			23,898,000	5·8
Athlone District			11,116,800	2·7
Cork No. 2 District			13,210,500	3·2
Dublin No. 2 District			45,399,700	11·0
Dundalk District			33,649,300	8·1
Galway District			8,414,600	2·0
Limerick District			29,281,000	7·1
Portlaoighise District			18,158,000	4·4
Sligo District			6,987,000	1·7
Tralee District			6,040,200	1·5
Waterford District			19,679,100	4·7
Station Auxiliaries.			14,591,000	3·5
High Tension Losses			49,387,100	11·9
Total generation of all Stations		413,734,400		
Bulk supply purchased from E.B.N.I.		628,600		
Total generation of all Stations plus bulk supply purchased from E.B.N.I.			414,363,000	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, 1943.

Month (Calendar)	Ardnacrusha	Pigeon House DUBLIN	Cork	Letterkenny	Acquired Stations	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 ...	30,479,500	6,561,500	—	42,000	1,500	37,084 500	—	37,084,500
May ...	9,425,800	20,723,200	—	39,800	—	30,188 800	—	30,188,800
June ...	8,337,200	14,822,300	—	11,600	—	23,171,100	23,100	23,194,200
July ...	7,274,900	16,087,300	—	300	—	23,362,500	24,200	23,386,700
August ...	15,873,500	7,038,500	—	500	—	22,912,500	25,700	22,938,200
September ...	26,301,800	1,105,900	—	—	—	27,407,700	40,200	27,447,900
October ...	35,770,500	130,200	—	200	—	35,900,900	63,400	35,964,300
November ...	23,887,400	17,037,500	—	2,000	—	40,926,900	78,800	41,005,700
December ...	34,599,400	9,503,800	—	2,300	—	44,105,500	83,200	44,188,700
January ...	41,911,300	4,428,000	7,100	700	—	46,347,100	112,800	46,459,900
February ...	37,544,400	3,391,800	—	400	—	40,936,600	72,700	41,009,300
March ...	22,298,700	19,091,600	—	—	—	41,390,300	104,500	41,494,800
TOTALS ...	293,704,400	119,921,600	7,100	99,800	1,500	413,734,400	628,600	414,363,000

TYPICAL DAILY LOAD CURVES

APPENDIX VI.



Capacity of the Board's Main Generating Stations at the 31st March, 1943.

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

Transmission and Distribution Systems in Commission and under Construction at the 31st March, 1943.

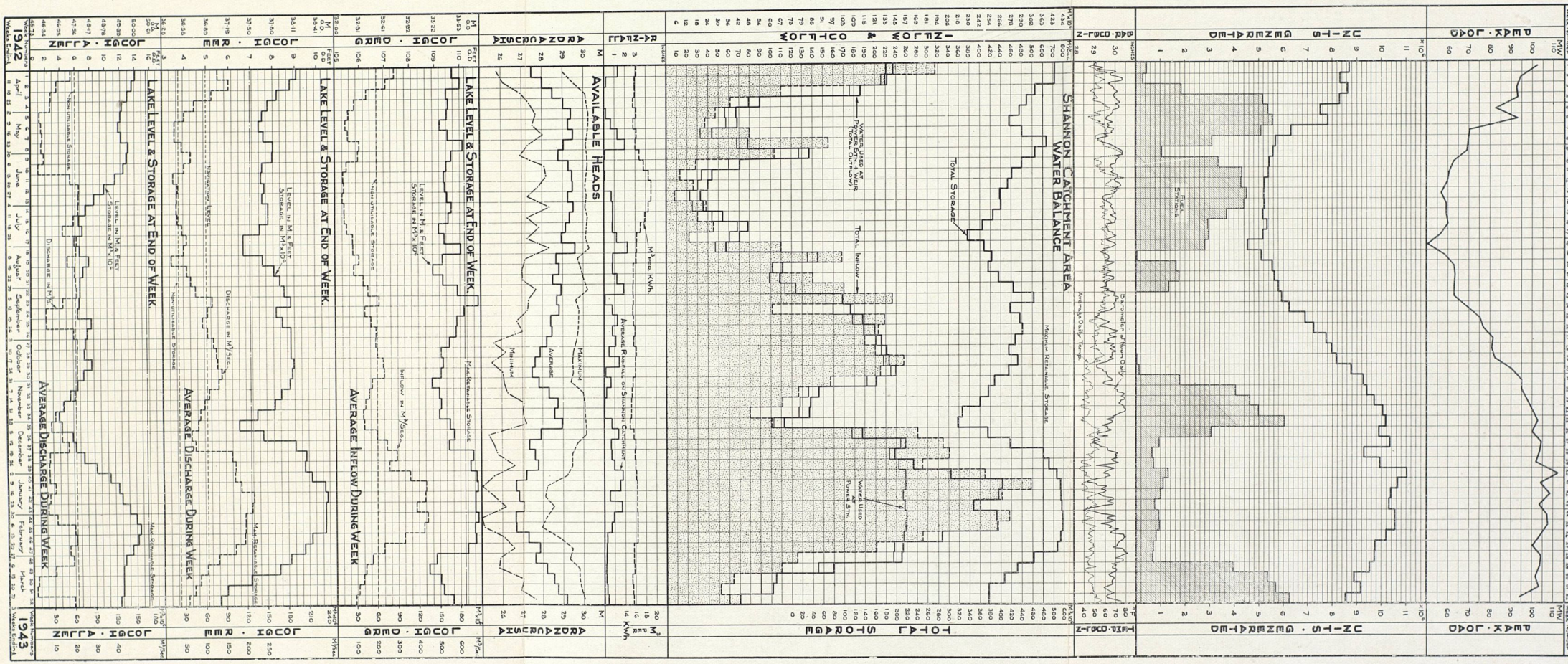
Transformer Station	Number in Commission	Increase for Year	Total Capacity	Increase in Capacity for Year
110 kV Stations ...	6	—	110/38 kV. Stations=162,000 kVA 110/10 kV. Stations= 22,500 kVA	15,000 kVA —
38 kV Stations ...	92	2	243,350 kVA.	28,300 kVA
10 kV Substations	1,271	39	168,892 kVA.	6,007 kVA
5 kV Substations	107	—1	84,948 kVA.	1,620 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 ...	1,832·5 Kms.	—	3×50 sq. mm.
38 kV Lines ...	328·2 Kms.	—	3×35 sq. mm.
10 kV Lines ...	3,296·4 Kms.	94·2 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 ...	266·06 Kms.	2·08 Kms.	3 × 10 sq. mm. to 3 × 185 sq. mm.
5 kV Cables ...	264·14 Kms.	3·36 Kms.	Ditto.
3·3 kV Cables ...	3·7 Kms.	—	3×185 sq. mm.

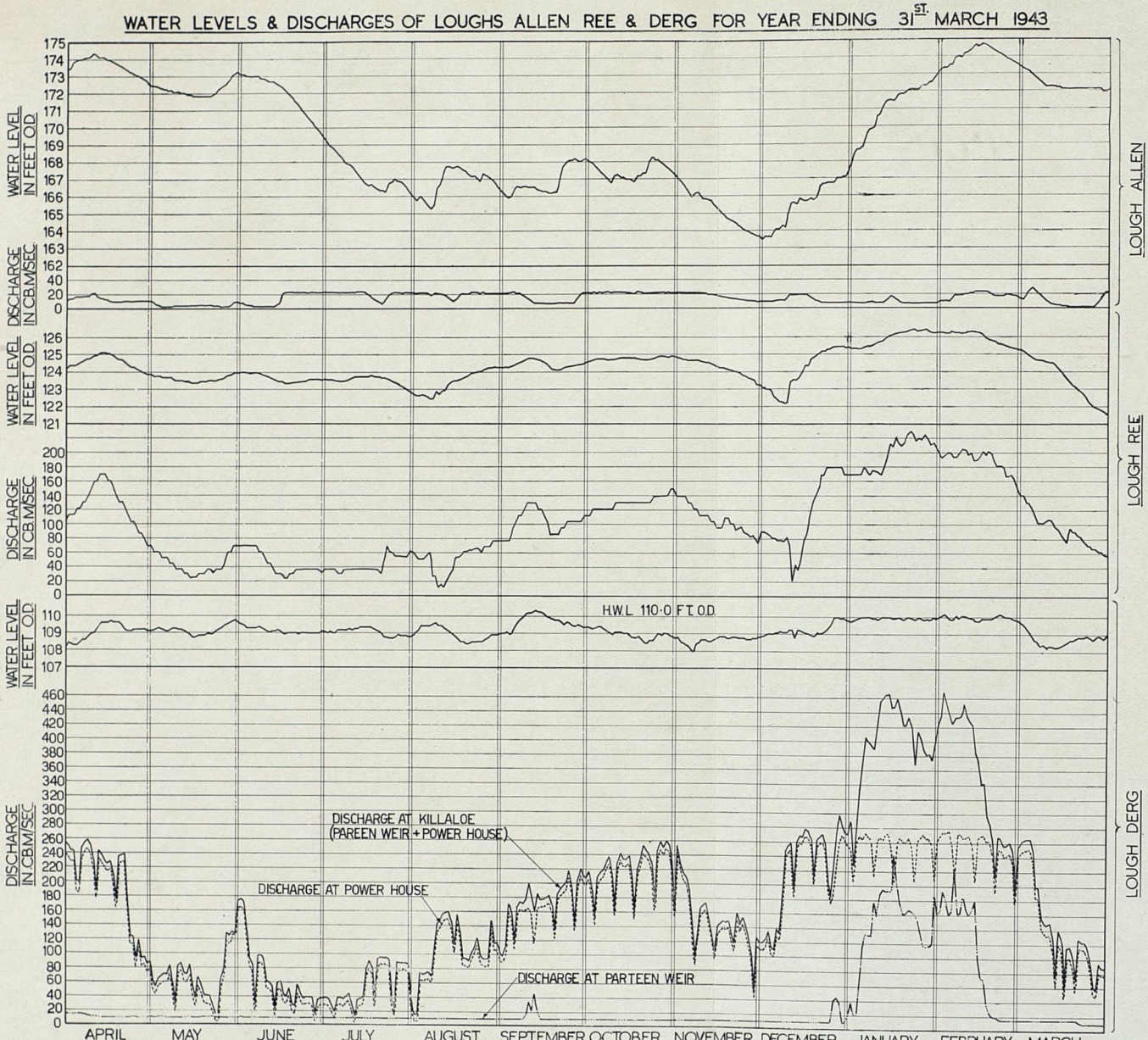
MAIN SHANNON SYSTEM.

WEEKLY SUMMARY OF OPERATING CONDITIONS.

YEAR ENDING 31ST MARCH, 1943.



To face page 36(a)



To face page 36(b)

ACCOUNTS

No. 1. INSTALLATIONS TRADING ACCOUNT FOR

Dr.

	£	s.	d.	£	s.	d.	Year 1941/42
To Cost value of work for which credit had not been taken at 31st March, 1942				23,065	4	2	23,242
,, Cost of installation work carried out during the year ...				57,073	0	3	62,059
,, Gross profit, carried down				22,169	16	0	19,438
				£102,308	0	5	£104,739
To Salaries, wages and state insurance ...	8,115	12	11				
,, Travelling expenses	633	8	10				
,, Rents and rates	144	10	7				
,, Sundry expenses	517	5	9				
,, General overhead expenses and interest, as apportioned	4,513	0	0				
				13,923	18	1	15,019
,, Balance, carried to **Net Revenue Account**				8,245	17	11	4,419
				£22,169	16	0	£19,438

No. 2. MERCHANDISE TRADING ACCOUNT FOR

Dr.

	£	s.	d.	£	s.	d.	Year 1941/42
To Cost value of transactions for which credit had not been taken at 31st March, 1942				26,598	14	0	43,255
,, Cost of goods issued as sales				18,964	1	7	43,850
,, Sundry costs in connection with sales				1,458	4	10	5,413
,, Gross profit, carried down				9,375	8	2	14,635
				£56,396	8	7	£107,153
To Salaries, wages, commission and state insurance	2,704	8	6				
,, Travelling expenses	55	15	11				
,, Rents and rates	359	6	8				
,, Sundry expenses	329	1	3				
,, General overhead expenses and interest, as apportioned	2,811	17	0				
				6,260	9	4	9,137
,, Balance, carried to **Net Revenue Account**				3,135	5	3	5,919
				£9,395	14	7	£15,056

THE YEAR ENDED 31st MARCH, 1943.

Cr.

	£	s.	d.	Year 1941/42 £
By Credit taken for contracts completed and charged ...	79,629	12	4	81,674
„ Cost value of work for which credit has not yet been taken	22,678	8	1	23,065
	£102,308	0	5	104,739
By Gross profit, brought down	22,169	16	0	19,438
	£22,169	16	0	£19,438

THE YEAR ENDED 31st MARCH, 1943.

Cr.

	£	s.	d.	Year 1941/42 £
By Credit taken for sales	45,642	6	1	80,555
„ Cost value of transactions for which credit has not yet been taken	10,754	2	6	26,598
	£56,396	8	7	£107,153
By Gross profit, brought down	9,375	8	2	14,635
„ Hireage receipts on hire-purchase appliances	20	6	5	421
	£9,395	14	7	£15,056

No. 3.
Dr.

ELECTRICITY REVENUE ACCOUNT FOR

	£ s. d.	£ s. d.	Year 1941/42. £
To GENERATION :			
Operating expenses	74,330 7 6		
Fuel	316,156 16 4		
Electricity purchased in bulk ...	2,192 8 11		
Maintenance and repair	64,655 0 5		
Transfer to depreciation reserve ...	73,000 0 0		
Supervision and local administration	26,638 15 1		
		556,973 8 3	630,006
,, TRANSMISSION :			
Operating expenses	15,607 15 0		
Maintenance and repair	30,630 9 9		
Transfer to depreciation reserve ...	77,000 0 0		
Supervision and local administration	17,031 17 3		
		140,270 2 0	135,483
,, DISTRIBUTION :			
Operating expenses	166,358 6 6		
Maintenance and repair	81,214 9 0		
Transfer to depreciation reserve ...	137,000 0 0		
Supervision and local administration	184,390 11 5		
		568,963 6 11	555,189
,, GENERAL ADMINISTRATION :			
Board, Secretariat and Consultants ...	27,227 7 11		
Engineering	36,410 12 2		
Accounting	44,380 3 10		
Audit fee	1,000 0 0		
Sales promotion and publicity ...	22,631 10 8		
General expenses	48,922 13 4		
Transfer to depreciation reserve— general assets	8,000 0 0		
	188,572 7 11		
Less : apportionment charged to other accounts and to capital works ...	7,376 0 0		
		181,196 7 11	170,215
,, Provision for bad debts		5,500 0 0	7,000
,, Depreciation of stocks of material		755 12 6	2,526
,, Balance, carried to Profit and Loss Account ...		782,875 7 7	691,177
		£2,236,534 5 2	£2,191,596

THE YEAR ENDED 31st MARCH, 1943.

Cr.

	£	s.	d.	£	s.	d.	Year 1941/42. £
By Charges for electricity, etc. :							
General consumers ...	2,112,201	0	9				
Public lighting	60,123	2	2				
Meter and other rents ...	51,383	13	8				
				2,223,707	16	7	2,182,970
,, Miscellaneous revenue	...		...	12,826	8	7	8,626
				£2,236,534	5	2	£2,191,596

No. 4.
Dr.

ELECTRICITY PROFIT AND LOSS ACCOUNT

	£ s. d.	£ s. d.	Year 1941/42 £
To Interest payable to the Minister for Finance	660,220 13 5		
,, Interest on loans and loan-stocks of acquired undertakings	13,270 13 2		
,, Other interest	143,085 9 2		
	816,576 15 9		
Less : apportionment charged to other accounts and to capital works ...	55,757 0 0		
		760,819 15 9	743,812
,, Loan-stock management charges		159 14 9	170
,, Gross contributions to loan-stock sinking funds of acquired undertakings		16,013 12 7	14,744
,, Reserves, being the amount of capital repaid or provided for repayment in respect of advances from the Minister for Finance	69,710 6 0		
acquired undertakings	1,511 17 9		
		71,222 3 9	69,448
,, Premium at which loan-stock was redeemed		303 3 6	1,273
		£848,518 10 4	829,447
To Balance, brought down		58,963 8 5	130,303
,, 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
		£60,552 8 11	131,892

No. 4A.
Dr.

ELECTRICITY NET REVENUE ACCOUNT

	£ s. d.	Year 1941/42 £
To Balance transferred from Profit and Loss Account ...	60,552 8 11	131,892
	£60,552 8 11	131,892
To Balance, brought down	49,171 5 9	121,554
,, Amount provided as a contribution towards expenditure on the design and supervision of new capital works ...	16,660 3 1	13,912
	£65,831 8 10	135,466
To Balance, brought down	£13,415 17 2	

FOR THE YEAR ENDED 31st MARCH, 1943.

Cr.

	£	s.	d.	Year 1941/42 £
By Balance transferred from Revenue Account	782,875	7	7	691,177
„ Loan-stock sinking funds' investment income	4,659	8	3	4,189
„ Discount at which loan-stock was redeemed	1	1	9	29
„ Interest receivable	2,019	4	4	3,749
„ Balance, carried down	58,963	8	5	130,303
	£848,518	10	4	829,447
„ Balance, carried to Net Revenue Account	60,552	8	11	131,892
	£60,552	8	11	131,892

FOR THE YEAR ENDED 31st MARCH, 1943.

Cr.

	£	s.	d.	£	s.	d.	Year 1941/42 £
By Installations trading profit	8,245	17	11				
„ Merchandise trading profit	3,135	5	3				
				11,381	3	2	10,338
„ Balance, carried down	...		...	49,171	5	9	121,554
				£60,552	8	11	131,892
By Contingencies Reserve				52,415	11	8	135,466
„ Balance, carried down				13,415	17	2	—
				£65,831	8	10	135,466

No. 5. ELECTRICITY CAPITAL ACCOUNT FOR

Dr.

	Total to 31st March, 1942 less— amounts written off	Expenditure during year to 31st March, 1943 less— amounts written off	Total to 31st March, 1943 less— amounts written off
	£ s. d.	£ s. d.	£ s. d.
To GENERATION : physical assets ...	6,309,505 7 8	12,585 19 4	6,322,091 7 0
,, TRANSMISSION : physical assets ...	3,465,833 8 3	56,769 9 5	3,522,602 17 8
,, DISTRIBUTION : (*a*) physical assets ...	4,042,215 10 3	163,480 13 3	4,205,696 3 6
(*b*) other capital expenditure	571,557 1 6	11,659 16 9	583,216 18 3
,, GENERAL : (*a*) physical assets ...	321,671 9 5	20,850 1 5	342,521 10 10
(*b*) other capital expenditure	329,787 4 5	(—) 894 14 10	328,892 9 7
	£15,040,570 1 6	£264,451 5 4	15,305,021 6 10
,, NON-CLASSIFIED EXPENDITURE : New works in progress			1,404,974 12 0
		TOTAL ...	16,709,995 18 10
			£16,709,995 18 10

Cr.

	Total Receipts to 31st March, 1942 less— redemptions	Redemptions during year to 31st March, 1943	Total Receipts to 31st March, 1943 less— redemptions
	£ s. d.	£ s. d.	£ s. d.
By Local Authority Undertakings :			
Loans and loan-stocks	146,287 13 1	4,379 0 3	141,908 12 10
Liability under section 39 (7) of the Electricity (Supply) Act, 1927 :	832 16 0	570 5 3	262 10 9
„ 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 ...	13,237,543 5 6	69,710 6 0	13,167,832 19 6
Total ...	£13,384,663 14 7	£74,659 11 6	13,310,004 3 1
By Balance			3,399,991 15 9
			£16,709,995 18 10

No. 6.
Dr.

ELECTRICITY BALANCE SHEET

LIABILITIES.			31/3/42
	£ s. d.	£	£
To Receipts, as per Capital Account		13,310,004 3 1	13,384,664
„ Sundry Creditors		366,654 7 4	405,344
„ Shannon Fisheries		4,180 13 1	1,898
„ Working Capital Loan of an acquired undertaking...		2,400 0 0	4,800
„ Amount reserved in respect of sinking funds for loan-stocks of acquired undertakings		50,292 14 11	37,716
„ 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		4,093,877 11 10	3,588,769
„ Capital Assets Adjustment Reserve representing surplus arising from re-valuation ...		270,175 4 4	270,175
	£ s. d.		
„ Reserves : Amount provided by acquired undertakings	77,897 14 4		
Other reserves and provisions	18,350 4 5		
		96,247 18 9	145,516
		£18,193,832 13 4	£17,838,882

AS AT 31st MARCH, 1943.

Cr.

ASSETS.	£ s. d.	31/3/42 £
By Capital Assets, as per Capital Account	16,709,995 18 10	16,292,290
„ Stocks on Hand and in Transit	795,254 1 1	758,511
„ Cost Value of Installations Work and Sales for which Credit has not been taken	46,876 5 6	65,192
„ Sundry Debtors, after providing for bad and doubtful debts	423,380 7 6	454,516
„ Cash in Hand and with Banks	154,617 8 4	230,657
„ Sinking Funds (held by local authorities) for loan-stocks :		
Investments (at cost) ... £40,483 6 5		
Cash not invested ... 9,809 8 6		
	50,292 14 11	37,716
„ Deficiency, as per Net Revenue Account ...	13,415 17 2	—
	£18,193,832 13 4	£17,838,882

No. 7. SHANNON FISHERIES TRADING ACCOUNT

Dr.

	£ s. d.	Year 1941/42 £
To Operation, maintenance and repair	8,909 4 3	8,789
,, Cost of fish purchased	1,027 11 6	128
,, Fishery rates	1,431 15 4	340
,, General management and overhead expenses	1,656 12 9	1,458
,, Balance, carried to Profit and Loss Account ...	17,127 6 10	9,520
	£30,152 10 8	£20,235

No. 8. SHANNON FISHERIES PROFIT AND LOSS ACCOUNT

Dr.

	£ s. d.	£ s. d.	Year 1941/42 £
To Interest payable to the Minister for Finance	8,910 11 10		
,, Other Interest	39 13 4		
	£8,950 5 2		
Less: apportionment charged to other accounts and to capital works	555 0 0		
		8,395 5 2	7,016
,, Reserve, being amount of capital repaid in respect of advances from Minister for Finance		2,282 10 9	—
,, Balance, carried down		6,449 10 11	2,504
		£17,127 6 10	£9,520
To Balance brought forward from last year's account ...		35,434 1 4	37,938
		£35,434 1 4	£37,938
To Balance, brought down		£28,984 10 5	

FOR THE YEAR ENDED 31st MARCH, 1943.

Cr.

	£ s. d.	Year 1941/42 £
By Sales of fish, letting of fishing rights and miscellaneous receipts	30,152 10 8	20,235
	£30,152 10 8	£20,235

FOR THE YEAR ENDED 31st MARCH, 1943.

Cr.

	£ s. d.	Year 1941/42 £
By Balance, brought from Trading Account	17,127 6 10	9,520
	£17,127 6 10	£9,520
By Balance, brought down	6,449 10 11	2,504
By Balance, carried down	28,984 10 5	35,434
	£35,434 1 4	£37,938

No. 9.
Dr.

SHANNON FISHERIES CAPITAL ACCOUNT

	Total to 31st March, 1942	Expenditure during year to 31st March, 1943	Total to 31st March, 1943
	£ s. d.	£ s. d.	£ s. d.
To Fishery rights and fisheries ...	91,164 3 6	526 10 11	91,690 14 5
„ Works to preserve fisheries ...	31,386 5 3	1,951 7 11	33,337 13 2
„ Other capital expenditure ...	11,655 15 1	—	11,655 15 1
	£134,206 3 10	£2,477 18 10	136,684 2 8
„ Non-classified expenditure : New works in progress ...			8,091 9 11
			144,775 12 7
„ Balance			32,941 16 8
			£177,717 9 3

No. 10.
Dr.

SHANNON FISHERIES BALANCE SHEET

LIABILITIES		31/3/42
	£ s. d.	£
To Receipts, as per Capital Acccount	177,717 9 3	180,000
„ Sundry creditors	—	246
„ Amount reserved in respect of capital loans repaid ...	2,282 10 9	—
	£180,000 0 0	180,246

OR THE YEAR ENDED 31st MARCH, 1943.

Cr.

	Total Receipts to 31st March, 1942	Redemptions during year to 31st March, 1943	Total Receipts to 31st March, 1943 less redemptions
	£ s. d.	£ s. d.	£ s. d.
By Minister for Finance :			
Advances under the Shannon Fisheries Act, 1935	180,000 0 0	2,282 10 9	177,717 9 3
			£177,717 9 3

AS AT 31st MARCH, 1943.

Cr.

				31/3/42
ASSETS.				
			£ s. d.	£
By Capital assets, as per Capital Account			144,775 12 7	140,810
„ Stock of material			1,006 10 7	909
„ Sundry debtors			909 4 2	1,128
		£ s. d.		
„ Cash : in hand and with Bank ...		143 9 2		
in Electricity Funds ...		4,180 13 1		
			4,324 2 3	1,965
„ Deficiency, as per Profit and Loss Account			28,984 10 5	35,434
			£180,000 0 0	180,246

				Total Receipts to 31st March, 1943
				£ 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	6,010,080	15	5	13,424,650 13 9
				£14,180,671 18 0
UNDER SHANNON FISHERIES ACTS.				
Minister for Finance :				
Advances—				
under the Shannon Fisheries Act, 1935				180,000 0 0
				£14,360,671 18 0

REDEMPTION THEREOF TO THE 31st MARCH, 1943.

Redeemed			Balance of Capital Receipts Outstanding at 31st March, 1943
Total to 31st March, 1942	During year to 31st March, 1943	Total to 31st March, 1943	
£ s. d.	£ s. d.	£ s. d.	£ s. d.
594,667 14 4	4,379 0 3	599,046 14 7	141,908 12 10
14,233 0 10	570 5 3	14,803 6 1	262 10 9
187,107 8 3	69,710 6 0	256,817 14 3	13,167,832 19 6
£796,008 3 5	£74,659 11 6	£870,667 14 11	£13,310,004 3 1
—	2,282 10 9	2,282 10 9	177,717 9 3
£796,008 3 5	£76,942 2 3	£872,950 5 8	£13,487,721 12 4

No. 12.
Dr.

GENERAL BALANCE SHEET

LIABILITIES.	£	s.	d.	£	s.	d.	31/3/1942 £
To Receipts:							
per Electricity Capital Account	13,310,004	3	1				
per Shannon Fisheries Capital Account	177,717	9	3				
				13,487,721	12	4	13,564,664
„ Sundry Creditors				366,654	7	4	405,590
„ Working Capital Loan of an acquired undertaking				2,400	0	0	4,800
„ Amount reserved in respect of sinking funds for loan-stocks of acquired undertakings				50,292	14	11	37,716
„ 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				4,096,160	2	7	3,588,769
„ Capital Assets Adjustment Reserve representing surplus arising from re-valuation ...				270,175	4	4	270,175
„ Reserves: Amount provided by acquired undertakings...	77,897	14	4				
Other reserves and provisions	18,350	4	5				
				96,247	18	9	145,516
				£18,369,652	0	3	£18,017,230

R. F. BROWNE, *Chairman.*

PATRICK J. DEMPSEY, *Secretary.*

AS AT 31st MARCH, 1943.

Cr.

ASSETS.	£ s. d.	£ s. d.	31/3/1942
			£
By Capital Assets:			
per Electricity Capital Account	16,709,995 18 10		
per Shannon Fisheries Capital Account	144,775 12 7		
		16,854,771 11 5	16,433,100
„ Stocks on Hand or in Transit		796,260 11 8	759,419
„ Cost Value of Installations Work and Sales for which Credit has not been taken ...		46,876 5 6	65,192
„ Sundry Debtors, after providing for bad and doubtful debts		424,289 11 8	455,644
„ Cash in Hand and with Banks		154,760 17 6	230,725
„ Sinking Funds (held by local authorities) for loan-stocks	£ s. d.		
Investments (at cost) ...	40,483 6 5		
Cash not invested ...	9,809 8 6		
		50,292 14 11	37,716
„ Deficiency:	£ s. d.		
per Electricity Net Revenue Account	13,415 17 2		
per Shannon Fisheries Profit and Loss Account ...	28,984 10 5		
		42,400 7 7	35,434
		£18,369,652 0 3	£18,017,230

F. WECKLER, *Chief Accountant.*

AUDITORS' REPORT.

As Auditors appointed by the Minister for Industry and Commerce, with the consent of the Minister for Finance, we have examined the foregoing Accounts and Balance Sheet. We certify, subject to the undermentioned qualifications, that the Balance Sheet as at the 31st March, 1943, 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, 1*st July*, 1943.

Alex. Thom & Co., Ltd