TWENTIETH ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

(Including Report on Shannon Fisheries.)

[P. No. 8299].

DUBLIN
1946-47

TWENTIETH
ANNUAL REPORT

OF THE

ELECTRICITY SUPPLY BOARD

Year ended 31st March, 1947.

(Including Report on the Shannon Fisheries.)

Staff Section
Secretariat

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

[P. No. 8299].

ELECTRICITY SUPPLY BOARD.

Report and Accounts

YEAR ENDED 31st MARCH, 1947.

(Including Report on the Shannon Fisheries.)

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[P. No. 8299].

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, 1947.

The surplus carried from the Profit and Loss Account to the Net Revenue Account was £248,940, as compared with £145,287 in the previous year.

The inflow to both the Shannon and Liffey rivers, by reason of the heavy rainfall, was considerably above the average and permitted an expansion of output to 572,000,000 units, which was the highest yet achieved. The Ardnacrusha hydro-station had a record production of 315,000,000 units, and from the Liffey hydro-station the output was 48,000,000 units. The peak load, which was 14 per cent. higher than in the preceding year, was successfully met by using all plant to its full capacity. The output of 205,000,000 units from the Dublin steam station was attained under considerable difficulties because of the inferior quality of the coal.

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

	Year ended 31st March, 1947.	Year ended 31st March, 1946.
	£	£
Gross Revenue	3,608,639	3,075,938
Working Expenditure (including depreciation)	2,352,783	1,947,696
Balance carried to Profit and Loss Account	1,255,856	1,128,242
Interest, repayment of advances and discharge of capital liabilities acquired with local authority undertakings	1,006,916	982,955
Surplus ...	248,940	145,287

Having credited the surplus for the year, the accumulated deficiency on the Net Revenue Account was reduced to £122,393.

Electricity sales amounted to 453,655,294 units as compared with 379,094,294 units in the preceding year. The revenue from sales increased by £527,031. On the other hand, there was a substantial growth in expenditure by reason of increases in fuel costs, in prices of materials, and in staff salaries and wages.

The depreciation which accrued during the year amounted to £335,000; this has been charged in the Revenue Account as in previous years. Including this sum, the total amount made available up to the 31st March, 1947, towards the replacement of wasting capital assets was £5,863,406.

Capital repayments to the Minister for Finance debited to the Profit and Loss Account amounted to £89,047, and the repayment of capital liabilities assumed from local authorities to £11,444. At the 31st March, 1947, the total of the capital redeemed by repayments to the Minister for Finance was £586,161, and of the liabilities assumed from local authorities £706,203 had been repaid.

Expenditure on new capital works in course of construction at the end of the year was £1,253,895. The capital invested in plant put into commission during the year was £485,489 as compared with £460,169 in the preceding year.

This expenditure comprises the following :—

	£
Generation	112,749
Transmission	115,678
Distribution	187,718
Equipment, Transport, etc.	69,344
	£485,489

The aggregate capital expenditure at 31st March, 1947, was £19,812,188.

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 eighteen years are shown in the following table :—

Year ended on 31st March	Units Generated (and purchased)	Units Sold	Revenue from Sales of Energy	Average Price in Pence per Unit		Total Consumers
				Generated	Sold	
			£			
1930 ..	60,947,775	43,177,228	478,006	1·88	2·66	48,606
1931 ..	119,842,716	85,500,494	735,302	1·47	2·06	69,045
1932 ..	151,843,717	110,677,196	938,933	1·48	2·04	78,511
1933 ..	166,076,275	120,098,523	1,044,475	1·51	2·09	83,052
1934 ..	185,383,327	138,503,130	1,149,681	1·49	1·99	91,267
1935 ..	206,105,570	156,964,146	1,258,388	1·47	1·92	103,037
1936 ..	244,098,692	187,015,590	1,429,888	1·41	1·84	116,704
1937 ..	284,117,500	218,758,085	1,584,433	1·34	1·74	130,483
1938 ..	314,477,200	244,460,235	1,724,873	1·31	1·69	145,230
1939 ...	377,637,400	295,258,706	1,900,563	1·21	1·54	160,382
1940 ...	406,998,700	318,551,656	1,946,310	1·15	1·47	172,545
1941 ...	435,864,400	345,230,808	2,071,888	1·14	1·44	183,747
1942 ...	450,411,800	357,252,304	2,182,970	1·16	1·47	200,419
1943 ...	414,363,000	328,052,276	2,223,708	1·29	1·63	210,475
1944 ...	442,892,900	346,938,333	2,426,082	1·31	1·68	222,013
1945 ...	406,273,400	319,010,297	2,458,411	1·45	1·85	228,008
1946 ...	483,625,900	379,094,294	3,061,518	1·52	1·94	237,136
1947 ...	571,876,300	453,655,294	3,588,550	1·51	1·90	248,030

Appendix I gives details of the number of consumers in each area this year as compared with the previous year, and certain other particulars relating to supply.

ANALYSIS OF UNITS SOLD.

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

Class of Supply	Units Sold		Increase	Percentage Increase
	Year ended 31st March, 1947	Year ended 31st March, 1946		
Domestic	168,695,170	140,764,758	27,930,412	19·8
General Lighting	35,848,402	28,352,957	7,495,445	26·4
General Heating, Cooking and Water Heating ...	49,823,347	39,638,742	10,184,605	25·7
Motive Power	173,014,316	150,047,101	22,967,215	15·3
Public Lighting	12,602,057	9,311,523	3,290,534	35·3
Traction	7,767,095	7,208,960	558,135	7·7
Miscellaneous	5,904,907	3,770,253	2,134,654	56·6
Totals ...	453,655,294	379,094,294	74,561,000	19·7

RESTRICTIONS ON ELECTRICITY SUPPLY.

The restrictions on electricity supply in force during the year are set out in Appendix II. These were less severe than in previous years because of the increased supply made available from the hydro-electric plants under the favourable water conditions which prevailed.

UNDERTAKINGS ACQUIRED.

To permit of the extension of supply by the Board from the national network to meet local requirements, the existing supply undertakings in Manorhamilton, Borris (Co. Carlow), Foynes, Ballybunion and Enniskerry were acquired.

SALES OF APPLIANCES.

Sales of appliances amounted to £99,791 as compared with £41,422 for the previous year. The rate of gross profit on sales was 23·1%. The Merchandise Trading Account showed a profit of £11,382, 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 £108,044 as compared with £72,043 for the previous year. The rate of gross profit was 24·4%. Having debited to the Installations Trading Account overhead expenses and interest on working capital, there was a net profit of £4,808.

RURAL ELECTRIFICATION.

During the year work was started on the Rural Electrification Scheme. The Head Office organisation was developed and staffed. Progress was made in determining the simplest possible design of rural supply network, procuring materials, fixing rates of charge, training staff, and organising area investigation and development.

It has been decided to carry out the scheme by developing unit areas of about twenty-five square miles. Of the areas investigated that which yields the highest revenue in relation to the capital cost of the supply network is to be supplied first in each county. Applications for supply were generally received from some form of local committee such as a parish council or guild. Experience has shown that the best results were obtained where the closest co-operation existed between such a local committee and the Board's staff.

At least one area in every county has been investigated, and by the end of the year organisation work was completed, or in progress, in fifty-one areas in all.

The following areas have been selected for supply :

Kilsallaghan	Co. Dublin.
Inniscarra	Co. Cork.
Patrickswell	Co. Limerick.
Tinryland	Co. Carlow.
Multyfarnham	Co. Westmeath.
Easkey	Co. Sligo.
Mooncoin	Co. Kilkenny

In Kilsallaghan area construction work was nearing completion. Work had been started, and had reached various stages in the other six areas mentioned. A local office was set up in each area from which the survey and planning, delivery of materials, and organisation of construction was controlled. Local householders who required information or advice about the scheme were also attended to at this office by the area engineer or one of his assistants. In some areas groups of prospective consumers have joined in obtaining group tenders from wiring contractors for the wiring of their dwelling houses and out-offices.

A demonstration unit visited several areas to show farmers the many uses of electricity for power and other purposes in the farmyard and in the rural dwelling. Great interest was shown in these displays.

Many essential materials were still extremely difficult to procure. Difficulties also arose from abnormally high price levels, and in the case of copper this has rendered necess-

ary the use of alternative metals as conductors. Sufficient quantities of wooden poles have been secured to enable a start to be made on a considerable scale, but lack of other items may necessitate a slowing-down of the work. Because of the necessity to store poles for one to two years before use, considerable storage space was required. A large area was secured in Cork for storing poles and other equipment for the scheme. Additional storage space has also been secured in Dublin.

In order to transport the very large quantities of poles involved, a number of heavy vehicles specially designed for pole transport has been obtained, and the vehicles have proved very satisfactory in service.

Rates of Charge for supply in rural areas under the scheme were investigated and determined (see Appendix III). The rate for dwellings and out-offices consists of a fixed charge and a relatively low rate per unit for electricity consumed. The fixed charge is related to the floor area of the dwelling house with a considerably reduced scale on the floor area of the out-offices. The rate has been found in practice generally acceptable, and on an average about 65% of the householders agreed to take supply in the areas investigated.

GENERATION.

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

Year ended on 31st March	Station	Generation in kWh.	Maximum daily output kWh.	Maximum load kW.
1947 ...	Ardnacrusha ...	315,678,500		
	Liffey	47,908,700		
	Pigeon House ...	204,939,700		
	Cork	1,849,300		
	Total ...	570,376,200	2,496,700	161,000
1946 ...	Ardnacrusha ...	292,862,000		
	Liffey	26,273,200		
	Pigeon House ...	162,787,000		
	Cork	293,500		
	Total ...	482,215,700	2,073,000	138,500
Increase during year ended 31st March, 1947		88,160,500	423,700	22,500

The total output for all stations showed an increase of 18·3% on the preceding year, and the average load for the year was 65,100 kW. The annual load factor on the basis of units generated was 40·4% compared with 39·7% last year.

A supply of 1,500,100 units was purchased in bulk at Lifford from the Electricity Board for Northern Ireland.

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

Generation load duration, and integrated load duration, curves	Appendix IV.
Distribution at high tension of units generated	Appendix V.
Outputs of all stations	Appendix VI.
Typical daily generation load curves	Appendix VII.
Capacity of the Board's generating stations	Appendix VIII.
Weekly Summary of operating conditions:	
(a) Shannon Catchment	Appendix IX.
(b) Liffey Catchment	Appendix XI.
Graph showing annual output from 1st April, 1928, to 31st March, 1947	Appendix XV.

GENERATING STATIONS.

Considerable delays and difficulties were experienced in obtaining building materials and equipment for the construction of the new generating stations at Portarlington, on the Lower River Erne and at Leixlip. The abnormally bad weather during the winter was unfavourable for building operations. Taking account of these circumstances, the progress achieved can be regarded as satisfactory.

(a) **Portarlington :**

Contracts were placed for the supply and erection of a third 12,500 kW. turbo-alternator set and additional switchgear and control gear. The erection of the boiler plant, which was ordered in 1944, is expected to commence during 1947.

The contract for the civil construction works was placed on the 3rd June, 1946, and work started on the site in the following month. The foundations for the boiler and the engine houses were sufficiently advanced to permit of the commencement of the erection of the steelwork early in the coming year. The foundations for the cooling water tower were completed.

(b) **Lower River Erne :**

Contracts were placed for the supply and erection of two 22,500 kW. turbo-alternator sets for the Cathaleen's Falls station, and for one 10,000 kW. turbo-alternator set for the Cliff station as well as for the transformers, switchgear and control gear for both these stations.

The civil construction works for the partial development scheme were in progress. At Cliff House, it is proposed to divert temporarily the entire flow of the river through a channel to be excavated on the north bank, and to construct portion of the dam and the Cliff power station inside cofferdams upstream and downstream of the site. The excavation of the diversion channel was well advanced, and work on the erection of the cofferdams was in progress. It is anticipated that the diversion will be completed early in the coming summer to allow work to proceed within the cofferdams.

At Cathaleen's Falls, it is likewise proposed to divert the flow of the river through a channel to be excavated on the north bank, and to construct portion of the dam and the power station itself within cofferdams upstream and downstream of the site. Before diversion of the river into the new channel, it will be necessary to complete the two blocks of the dam containing two temporary diversion culverts for the closure of the dam, and portion of the permanent spillway. Excavation for the diversion channel, the two blocks containing the diversion culverts, and the permanent spillway, was in progress and the erection of the cofferdams had been commenced. Satisfactory progress was maintained, and it is anticipated that the works will be sufficiently advanced to enable the river to be turned into the diversion channel, and the site to be drained, by about mid-summer, 1947.

The construction of the tail race at Ballyshannon entails deepening of the existing river bed for a width of 48 feet to a general depth of about 30 feet, increasing to about 40 feet at the outlet and below the existing river bed. The whole of the excavation is in rock, with the exception of a short stretch, mainly in gravel, above the Ballyshannon bridge. The excavation, where in rock, is to be carried out in the dry inside cofferdams. The gravel section is to be taken out under water using floating plant. The excavation at the outlet end within the first section of the tail race cofferdam was completed to the full depth. The excavation of the gravel section was commenced. Progress was maintained on the erection of the new bridge at Ballyshannon ; the arch was poured and the bridge will be ready for use during the coming summer.

Work was in progress on the embankments, road diversions and auxiliary works around the site of the Cathaleen's Falls storage basin.

(c) Liffey :

The erection of the second main generating set in Pollaphuca station was completed. The installation of the final switchgear and control gear for this station is expected to be completed during 1947.

(d) Leixlip :

The contract for the main civil construction works was placed at the end of the previous year, and work was commenced on site in May, 1946. The main cofferdam for the dam and the power station have been erected, the excavation within the cofferdam was well advanced, and the pouring of the concrete in the dam had commenced. Parts of the power plant have been delivered.

(e) Pigeon House :

The work on the installation of the two additional boiler units and the new ash disposal plant was well advanced.

(f) Allenwood (Co. Kildare) :

The site of the second generating station utilising peat fuel was chosen at Allenwood, Co. Kildare. A contract was placed for the supply and erection of four peat-fired boiler units of 150,000 lbs. of steam per hour each. Specifications were prepared and inquiries issued to plant manufacturers for the supply and erection of two turbo-alternator sets of 20,000 kW. each, and two transformers of 20,000 KVA. each.

(g) **Cork :**

It was decided to erect a steam generating station at Cork. This station will be equipped with one turbo-alternator set of 30,000 kW. capacity and the boiler plant will be designed to use oil or coal as an alternative. A site for the station was acquired.

WATER STORAGE AND RIVER CONTROL.

RIVER SHANNON.

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 was 220·9 cbm/sec. which was 14% above the long term mean. The flows were below average in April, May and June, but during the remainder of the year were generally well above the average. The water used for power generation amounted to 76·6% of the total inflow, excluding river compensation water.

The important hydrometric figures were as follows :—

Total average rainfall in Shannon catchment	...	46·82 ins.
Average inflow to Shannon catchment	... ...	220·9 cbm/sec.
Average water used at Ardnacrusha power station	...	156·7 „
Average water used per unit generated	... ...	15·65 „
Average available head at Ardnacrusha Power Station		28·20 m.
Maximum available head at Ardnacrusha Power Station		30·20 m.
Minimum available head at Ardnacrusha Power Station		25·12 m.

(The average inflow to the catchment at Killaloe for the calendar year 1946 was 207·7 cbm/sec.).

RIVER LIFFEY :

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

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

The total average inflow to Pollaphuca reservoir was 13·17 cbm/sec. or 44·4% above the long term mean of 9·12 cbm/sec.

The draw-off by the Dublin Corporation for the city water supply averaged 7·6 million gallons per day (0.40 cbm/sec.) over the year.

The important hydrometric figures were as follows :—

Total average rainfall in Pollaphuca catchment ...	43·75	ins.
Average inflow to Pollaphuca catchment	13·17	cbm/sec.
Average water used at Pollaphuca station	10·04	„
Average water used by Dublin Corporation ...	0·40	„
Average water used per unit generated at Pollaphuca ...	8·85	cbm.
Average water used per unit generated at Golden Falls	26·46	„

(The total inflow for the calendar year 1946 was 11·92 cbm/sec.).

TRANSMISSION AND DISTRIBUTION SYSTEMS.

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

(1) Low tension overhead mains	55·8	miles.
(2) Low tension overhead mains (reconstructed or strengthened)	8·0	miles
(3) Low tension underground mains	7·2	miles.
(4) 10kV. underground cables	8·8	miles.
(5) 10kV. overhead transmission lines	78·6	miles.
(6) 38kV. underground cables	4·6	miles.
(7) 38kV. overhead transmission lines	10·0	miles.
(8) Rural lines (10kV. and L.T.)	39·3	miles.

A new 38kV. station was placed in commission at Collooney, Co. Sligo, and the 38kV. station at Milltown, Co. Dublin, was replaced by a more modern one.

One hundred and thirty-four 10kV. transformer stations were placed in commission, and fourteen 10kV. and one 5kV. stations were retired from service.

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

WATER POWER RESOURCES AND HYDROMETRIC SURVEY.

Work proceeded on the collection of hydrometric data—

(a) on the Shannon and Upper Liffey for river control purposes and
(b) on the River Erne and the Lower Liffey at Leixlip, where projects are now under construction.

The collection of data with a view to the investigation and possible later development of the further water-power resources of the country was continued. The total number of rivers under observation, including the Erne and Lower Liffey, is sixteen.

Two additional flow measuring stations were erected on the River Lee, namely at Carrigadrohid and at Dromcarra. A flow measuring station was erected on the River Flesk at Killarney. The calibration of the flow measuring weirs on the Torc and Owgarriff rivers was completed and the flows computed from the time of commencement of the records in 1942.

PERMITTED UNDERTAKINGS.

At the 31st March, 1947, there were seventy-nine supply undertakers operating under permits from the Board. During the year five permits lapsed as a result of the acquisition of the undertakings by the Board and one new permit was issued. Particulars of all permitted undertakings, except where the number of consumers is three or under, are contained in Appendix XIV.

SUPERANNUATION SCHEMES.

The number of contributing members in the General Employees Superannuation Scheme at the end of the year was 952, and in the Manual Workers Superannuation Scheme, 1,253. Twenty-one members were in receipt of pensions from the funds.

A total sum of £384,400 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, 1947, and for record purposes this report has been reproduced in Appendix XVI.

STAFF.

The strength of the Board's regular staff at the 31st March, 1947, was 2,641.

The Board has pleasure in expressing again its appreciation of the efficient manner in which the members of the Staff performed their duties.

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

PATRICK J. DEMPSEY, Secretary.
2nd July, 1947.

* Mr. Golden, although not a member of the Board during the period covered by this Report, was a member on the date of the signing of the Report.

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 31st March, 1947.

The proceeds from the sale of fish, including eels, and the letting of fishing rights, amounted to £9,280 as compared with £8,518 in the previous year. This resulted in a deficiency of £13,021 on the Profit and Loss Account after charging interest and sinking fund amounting to £10,440 on the capital invested in the fisheries and making an allowance of £1,004 for depreciation. The debit for fishery rates was £3,552. The deficiency in the previous year was £13,261.

SALMON FISHERIES.

The run of salmon continued to decrease, but there was a considerable increase in the number of grilse. During the year there was a heavy migration of smolts. Reports from the spawning beds have been favourable.

The bulk of the fish was again disposed of in the Dublin market, realising £4,682 as compared with £3,690 in the previous year. Prices were unchanged until early in June, but subsequently there was an increase of 8d. per lb. over the price obtaining in the corresponding period of the preceding year.

The following figures show the recorded run of salmon and grilse at Thomond weir. Owing to abnormal floods the record of numbers could not be made in January, or between the 13th and 31st March.

	Year ended 31st March, 1947.	Year ended 31st March, 1946.
April, ...	731	533
May, ...	763	775
June, ...	6,960	3,683
July, ...	1,760	977
January, ...	—	8
February, ...	61	13
March, ...	80	484
	10,355	6,473

The run of salmon at Thomond weir decreased by 15% over the previous year. The average weight of salmon was 12·6 lbs. as compared with 12·3 lbs. At the stake weirs the average weight was 10· 9lbs. as compared with 10·8 lbs.

The run of grilse increased by 89% from 4,677 to 8,837. The average weight was 5·5 lbs. at Thomond weir, and 6·2 lbs. at the stake weirs as compared with 5·7 lbs. and 5.3 lbs., respectively, in the preceding year.

EEL FISHERIES.

The weights of eels taken for the season showed a marked increase as follows :—

	Year ended 31st March, 1947.	Year ended 31st March, 1946.
Athlone	738 lbs.	2,688 lbs.
Castleconnell	6,800 ,,	359 ,,
Killaloe	21,507 ,,	10,405 ,,
	29,045 lbs.	13,452 lbs.

The decrease in the catch at the Athlone weir was primarily due to the limited number of nets fished and their very bad state of repair. As new nets were not procurable, operations at the weir were suspended at an early date. There was further evidence that the long-line fishing activities referred to in previous reports were continued during the year, with an adverse effect on the take of eels.

The proceeds from the sale of eels was £4,347 as compared with £4,369 in the preceding year, the price per lb. being controlled at 3s. as compared with 6s. 6d. per lb.

OYSTER FISHERIES.

The oyster fisheries were not operated during the year. Supplies of seed oysters could not be obtained at economic prices. Advice on the erection of spatting tanks for breeding purposes has been obtained from experts who were consulted on the matter. They have reported favourably on the proposal, and it is hoped to proceed with the scheme next year.

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

PATRICK J. DEMPSEY, Secretary.

2nd July, 1947.

* Mr. Golden, although not a member of the Board during the period covered by this Report, was a member on the date of the signing of the Report.

APPENDICES

LIST OF APPENDICES.

Appendix.

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XV.—Units generated from 1st April, 1928, to 31st March, 1947.

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

DUBLIN No. 1 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Dublin–Rathmines–Pembroke	475,594	84,310	87,865	71,903	73,713
Terenure-Kimmage ...		2,997	3,141		
Crumlin		8,520	8,725		
Rathfarnham		959	990		
Templeogue		183	198		
Firhouse		31	32		
Woodtown		1	1		
TOTALS ...	475,594	97,001	100,952	71,903	73,713

CORK No. 1 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Cork City	99,011	17,274	18,660	18,906	20,076
TOTALS ...	99,011	17,274	18,660	18,906	20,076

ATHLONE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Ahascragh	269	48	53	4	4
Ardagh (Co. Longford) ...	—	24	25	1	1
Athleague	208	37	36	15	15
Athlone	7,257	1,658	1,699	2,371	2,542
Ballinagar	—	4	4	Nil	Nil
Ballinasloe	5,834	593	620	447	447
Ballygar	335	87	92	32	32
Ballymahon	643	133	137	52	59
Banagher	720	114	146	109	109
Birr	—	3	3	54	54
Borrisokane	551	172	171	5	7
Clara	1,590	405	409	433	459
Cloghan	188	29	30	33	33
Daingean (or Philipstown)	518	69	72	14	14
Edgeworthstown (or Mostrim)	515	115	117	46	47
Eyrecourt	323	39	56	Nil	40
Ferbane	301	79	79	2	2
Granard	1,236	203	209	27	27
Kilbeggan	593	135	140	11	11
Kilcormac (or Frankford)	448	74	82	38	38
Longford	3,807	752	786	105	105
Lorrha	98	26	27	Nil	Nil
Moate	1,326	190	199	3	28
Mullingar	5,237	1,051	1,087	688	779
Newtownforbes	369	42	42	45	45
Portumna	—	3	4	345	345
Roscommon	2,040	441	442	81	71
Tullamore	5,135	1,034	1,067	1,794	1,809
TOTALS ...	39,541	7,560	7,834	6,755	7,123

DUBLIN No. 2 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Baldoyle	765	209	222	26	26
Howth and Sutton ...	4,832	1,161	1,187	105	105
Raheny	—	271	282	10	24
Coolock	349	86	97	2	1
Artane	996	69	68	75	75
Santry	116	108	112	90	92
Finglas	1,383	340	391	219	225
Chapelizod	—	342	351	80	81
Knockmaroon	—	14	14	1	1
Lucan	867	369	381	270	281
Ballydowd	—	20	20	Nil	Nil
Palmerstown	208	33	35	56	60
Bluebell	399	82	89	92	92
The Ranch	—	141	145	Nil	Nil
Cabinteely	54,129	137	142	10	10
Carrickmines		89	90	10	10
Dundrum—Sandyford ...		2,165	2,275	277	294
Dun Laoghaire Borough ...		8,934	9,272	1,913	1,926
Foxrock		414	429	38	38
Kill-o'-the-Grange ...		141	148	8	8
Stillorgan		233	253	154	154
Shankill—Loughlinstown ...	2,332	402	423	13	23
Bray	10,347	2,430	2,590	1,748	1,883
Greystones	1,535	583	611	311	311
Ashford	—	86	93	35	60
Balbriggan	2,434	438	459	175	180
Balgriffin	—	60	64	11	11
Ballymore Eustace ...	338	111	115	115	115
Balrothery	—	10	12	Nil	Nil
Blanchardstown	417	178	180	35	36
Blessington	289	116	121	71	71
Castleknock	1,789	171	176	102	101

DUBLIN No. 2 DISTRICT—*continued.*

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Celbridge	627	193	204	96	96
Clane	145	31	35	Nil	Nil
Clondalkin	967	303	309	3,997	4,115
Clonee	112	27	27	7	51
Clonsilla—Porterstown ...	819	119	124	32	32
Delgany—Killincarrig ...	1,060	220	227	9	9
Donabate	186	160	171	93	123
Dunboyne	290	63	63	44	44
Enniskerry	145	12	84	Nil	Nil
Glenealy	—	33	35	92	92
Kilcock	475	84	86	35	48
Kilcoole	303	110	114	Nil	Nil
Kill and Johnstown ...	95	56	67	2	110
Kilmacanogue	—	34	35	Nil	Nil
Kiltiernan—Scalp ...	713	128	133	10	10
Kingswood	—	17	17	Nil	Nil
Kinsaley	—	21	22	Nil	Nil
Leixlip	571	206	215	128	322
Lusk	305	113	114	4	4
Malahide	1,259	411	430	31	177
Maynooth	632	147	157	137	137
Naas	3,290	597	619	574	575
Newtownmountkennedy ...	208	158	162	11	11
Portmarnock	516	142	148	7	7
Poulaphouca	—	11	11	3	3
Rathcoole	223	74	75	4	7
Rathdrum	504	195	200	300	302
Rathnew	547	92	95	57	57
Rockbrook	—	23	23	Nil	Nil
Rush	1,651	388	406	48	53
Saggart	116	47	48	1,573	1,573
Sallins and Clongowes ...	276	45	59	339	339
Skerries	2,134	612	631	85	95
Stepaside	102	19	20	Nil	Nil
Swords	838	272	278	208	209
Tallaght	611	124	132	426	476
Turnapin	238	28	30	Nil	Nil
Wicklow	3,183	563	597	347	411
TOTALS ...	106,666	25,821	27,050	14,751	15,782

CORK No. 2 DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Ballinacurra	403	86	84	187	188
Ballincollig	400	59	63	Nil	Nil
Ballineen	272	63	64	147	147
Bandon	3,500	825	838	542	617
Bantry	2,643	460	461	157	117
Bishopstown	97	69	95	97	101
Blarney	723	192	192	74	311
Buttevant	881	194	202	64	64
Carrigaline	315	94	96	21	167
Carrigtwohill	402	52	48	30	59
Castlelyons	113	25	25	110	128
Castlemartyr	346	66	65	8	8
Castletownroche	443	77	76	12	32
Castletownsend	147	25	34	Nil	Nil
Clonakilty	2,961	534	550	520	658
Cloyne	684	93	96	110	110
Cobh	6,272	1,010	1,076	1,145	1,145
Courtmacsherry	221	41	42	4	4
Crookstown	—	21	22	164	164
Crosshaven	724	165	167	60	86
Doneraile	740	165	175	31	32
Drimoleague	344	61	64	Nil	59
Drinagh	—	23	23	429	429
Drommahane	96	21	21	Nil	Nil
Dunmanway	1,561	276	280	183	128
Enniskeane	162	34	34	2	2
Fermoy	4,123	614	678	390	439
Glandore	124	17	18	Nil	Nil
Glanmire	213	79	92	136	95
Glanworth	261	50	52	Nil	Nil
Glounthaune	—	14	16	Nil	Nil
Haulbowline	—	19	23	2,493	2,493
Innishannon	182	30	32	3	3
Kildorrery	236	68	67	13	26
Killeagh	235	40	52	38	38
Kilnap	272	58	60	119	119
Kinsale	2,661	452	460	133	175
Leap	157	34	35	Nil	Nil
Lombardstown	—	8	9	115	115
Macroom	2,382	464	471	129	162
Mallow	4,948	1,028	1,048	304	389
Midleton	2,823	504	540	259	314
Mitchelstown	1,902	484	494	236	236
Mogeely	—	7	8	Nil	Nil
Mount Desart	—	1	1	Nil	Nil
Passage West	2,648	306	336	15	16
Monkstown		159	163	Nil	Nil
Rathcormac	187	31	31	Nil	Nil
Rochestown	—	1	1	6	6
Rostellan	112	40	47	Nil	Nil
Skibbereen	2,541	521	544	179	417
Timoleague	248	57	59	49	50
Upper Aghada	155	20	23	Nil	14
Whitegate	286	75	75	Nil	Nil
Youghal	5,131	696	759	224	299
TOTALS ...	56,277	10,608	11,087	8,938	10,162

DUNDALK DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
An Uaimh (Navan) ...	4,123	899	912	1,147	1,200
Ardee	2,383	297	312	287	294
Arvagh	525	96	102	11	11
Athboy	520	124	129	85	85
Bailieborough	854	189	200	271	367
Ballinagh	314	54	59	Nil	Nil
Ballybay	1,034	224	236	44	94
Ballyjamesduff	434	103	107	12	14
Belturbet	1,341	207	225	221	259
Bettystown—Laytown-Mornington-Donacarney	258	182	179	46	46
Blackrock (Louth) ...	695	164	190	24	24
Butler's Bridge	96	21	22	Nil	10
Carrickmacross	2,095	401	410	204	220
Castleblayney	1,725	364	389	374	560
Cavan	3,393	601	626	249	269
Ceanannus Mór (Kells) ...	2,304	405	418	246	246
Clones	2,400	522	535	109	134
Cootehill	1,593	287	298	180	178
Crossdoney	—	4	5	Nil	12
Drogheda	14,494	2,325	2,509	3,408	3,424
Drum	72	14	14	Nil	Nil
Drumcondrath	147	26	28	Nil	Nil
Dundalk	16,214	3,245	3,391	3,825	3,902
Killeshandra	473	102	105	391	391
Kilnaleck	247	41	43	Nil	Nil
Kingscourt	631	123	134	472	507
Monaghan	4,780	640	674	963	976
Newtown	—	1	1	10,678	10,763
Oldcastle	586	149	150	28	29
Shercock	228	62	65	107	161
Trim	1,455	233	240	63	78
Virginia	418	96	96	39	39
TOTALS ...	65,832	12,201	12,804	23,484	24,293

LIMERICK DISTRICT.

Appendix I—continued

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Adare	497	106	127	171	179
Annacotty	—	26	33	90	90
Ardagh	119	30	34	91	121
Ardnacrusha and Clonlara	249	76	77	354	354
Askeaton	581	115	119	42	152
Ballagh	—	1	1	164	164
Ballingarry (Co. Limerick)	339	67	69	72	74
Ballylanders	193	45	48	15	15
Birdhill	—	11	11	15	15
Broadford (Ráth Luirc) ...	162	22	24	Nil	Nil
Bruff	349	88	89	16	16
Bruree	250	55	64	69	69
Bulgaden	—	2	2	Nil	Nil
Caherconlish	305	41	43	Nil	Nil
Cahir	1,638	362	371	268	266
Cappamore	558	72	74	168	168
Cappawhite	426	52	55	15	15
Cashel	3,028	416	427	169	171
Castleconnell	219	66	82	Nil	Nil
Castlemungret	—	1	1	2,670	2,670
Castletroy	—	32	36	203	203
Castlemahon	72	15	15	93	93
Clarecastle	549	98	103	Nil	Nil
Cloncagh	—	5	6	74	74
Croom	791	103	102	59	59
Doon	478	61	64	24	24
Dromina	109	15	15	20	20
Drumcollogher	457	109	111	22	22
Elton	—	10	12	100	100
Ennis	5,897	1,193	1,231	638	644
Ennistymon	1,264	269	282	175	177
Foynes	497	11	83	95	93
Galbally	195	32	32	20	20
Garryspillane	—	3	3	57	57
Hospital	609	115	120	38	38
Herbertstown	85	22	23	136	136
Kilfenora	165	40	42	Nil	Nil
Kilfinane	818	148	160	54	54
Kilkee	1,863	306	316	11	17
Kilkishen	108	20	24	Nil	Nil
Killaloe and Ballina (Tipp.)	1,066	234	239	134	193
Kilmallock	861	270	273	247	287
Kilrush	3,426	509	535	323	409
Knocklong	—	26	28	246	246

LIMERICK DISTRICT—*continued.*

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Lahinch	327	71	69	1	1
Lattin	—	1	1	93	123
Limerick City	43,663	8,953	9,202	8,066	8,100
Limerick Junction ...	206	46	48	38	38
Lisdoonvarna	193	122	128	249	256
Martinstown	—	1	1	Nil	Nil
Milford (Ráth Luirc) ...	161	36	35	222	222
Miltown-Malbay	809	168	175	6	7
Murroe	—	2	2	40	40
Nenagh	4,902	808	820	900	868
Newcastle West	2,943	446	450	214	217
New Inn	117	18	21	96	96
Newmarket-on-Fergus ...	368	85	92	18	55
Newport (Tipp.) ...	494	98	99	138	138
Newtown (Ráth Luirc) ...	106	18	18	87	87
O'Brien's Bridge—Montpelier	277	28	31	Nil	Nil
Oola	392	16	18	Nil	Nil
Rathkeale	1,565	262	275	135	175
Ráth Luirc (Charleville) ...	1,625	369	382	284	284
Rineanna and Ballygireen	—	23	35	277	388
Solohead	—	9	9	49	49
Spanish Point	—	3	4	Nil	Nil
Tipperary	5,384	761	803	626	645
Tulla	474	97	100	6	6
TOTALS ...	92,229	17,741	18,424	18,703	19,300

GALWAY DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Athenry	1,048	210	220	133	153
Ballyhaunis	1,160	251	260	36	64
Castlebar	4,826	754	767	717	717
Claremorris	1,132	352	356	493	501
Clarinbridge	123	20	20	Nil	Nil
Galway	18,294	3,283	3,334	1,745	1,765
Gort	1,034	215	221	159	160
Kinvara	420	40	44	Nil	Nil
Loughrea	2,891	327	342	167	167
Newport (Mayo) ...	353	95	101	37	32
Oranmore	184	29	31	9	9
Tuam	4,181	822	854	168	187
Westport	3,409	654	665	704	709
TOTALS ...	39,055	7,052	7,215	4,368	4,464

PORTLAOIGHISE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Abbeyleix	664	162	171	52	54
Athy	3,628	642	651	532	552
Ballinakill	338	60	61	32	32
Baltinglass	659	183	197	17	21
Ballybrophy	—	2	2	7	7
Ballymany—Loughbrown ...	—	53	53	32	32
Ballyragget	449	108	112	22	22
Ballyroan	127	23	24	Nil	Nil
Borris-in-Ossory	216	50	48	17	37
Borrisoleigh	544	103	107	34	50
Brannockstown	—	17	19	Nil	Nil
Brownstown	226	141	145	10	10
Callan	1,516	253	260	236	236
Carlow	7,649	1,235	1,269	714	825
Castlecomer	809	215	224	1,256	1,259
Castledermot	276	119	124	76	78
Castletown	251	24	25	Nil	Nil
Clogh	167	38	35	Nil	Nil
Clonbullogue	79	15	15	Nil	Nil
Curragh Camp	—	1	1	258	258
Donaghmore	87	11	10	Nil	Nil
Droichead Nua (Newbridge)	2,375	635	630	998	1,015
Dunlavin	332	86	84	3	19
Durrow	462	96	98	6	6
Edenderry	2,093	415	417	263	267
Freshford	456	105	114	161	211
Hacketstown	377	91	92	29	29
Johnstown (Co. Kilkenny)	307	55	60	3	3
Kilcullen	441	117	123	46	46
Kildare	1,758	454	479	141	147
Kilkenny	10,237	1,516	1,586	842	894
Kiltegan	101	25	24	Nil	Nil
Leighlinbridge	425	88	87	112	112
Loughmore	—	19	19	Nil	Nil
Milemill	—	18	18	Nil	Nil
Monasterevan	580	133	129	118	118
Mountmellick	2,314	405	404	140	158
Mountrath	1,116	210	217	36	36
Muine Bheag (Bagenalstown)	1,897	334	343	190	192
Palatine	101	18	18	Nil	Nil
Portarlington and Clonsast	1,851	463	472	1,025	1,015
Portlaoighise	3,396	778	797	795	823
Rathangan	431	72	78	76	76
Rathdowney	825	180	180	9	9
Rathvilly	253	39	37	Nil	1
Roscrea	3,060	608	623	628	761
Stradbally	762	129	128	35	35
Talbot's Inch	108	34	33	7	7
Templemore	1,981	325	340	142	142
The Swan	—	27	28	557	557
Thurles	5,648	967	1,006	409	438
Tullow	1,616	316	321	88	153
Urlingford	528	71	73	8	8
TOTALS ...	63,516	12,284	12,611	10,162	10,751

SLIGO DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Arigna	—	11	11	346	346
Ballaghaderreen	1,122	307	314	86	152
Ballina	5,728	1,291	1,326	616	718
Ballymote	738	188	209	134	137
Ballyshannon	2,223	637	664	286	1,357
Boyle	—	1	1	36	36
Bundoran	1,352	373	384	29	43
Carrick-on-Shannon	1,015	338	338	145	145
Castlerea	1,313	339	344	187	187
Charlestown and Bellahy ...	773	198	197	21	29
Collooney	310	Nil	2	Nil	400
Convoy	369	92	94	720	720
Crocketstown (Ballina Quay) ...	171	23	26	Nil	Nil
Crossmolina	660	143	148	44	44
Curry	—	17	18	Nil	Nil
Drumsna	122	11	11	Nil	Nil
Elphin	548	113	120	3	3
Foxford	805	163	164	258	264
Gurteen	—	42	45	9	10
Inniscrone	399	114	122	10	23
Jamestown	—	5	7	Nil	Nil
Kilkelly	160	56	60	Nil	Nil
Killala	449	66	68	Nil	1
Kiltimagh	1,090	230	238	64	66
Leitrim	107	23	26	Nil	Nil
Letterkenny	2,649	537	542	135	135
Lifford	478	148	148	59	59
Loughglynn	114	22	22	Nil	1
Manorhamilton	976	Nil	213	Nil	41
Mohill	714	192	194	43	44
Sligo	12,565	2,140	2,220	1,568	1,758
Strokestown	628	153	161	32	34
Swinford	1,203	300	305	164	166
Tubbercurry	823	175	190	78	85
TOTALS ...	39,604	8,448	8,932	5,073	7,004

TRALEE DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Abbeyfeale	1,122	239	243	55	60
Athea	259	56	58	Nil	Nil
Ballybunion	543	Nil	231	Nil	Nil
Ballylongford	514	73	78	89	89
Boherbue	242	56	55	99	134
Brosna	332	65	65	234	284
Castleisland	1,325	292	297	207	207
Castlemaine	104	24	25	157	157
Dromtariffe	—	2	2	48	48
Duagh	128	13	13	Nil	Nil
Edenburn	—	1	1	18	18
Glin	516	92	94	73	115
Kanturk	1,555	330	352	393	400
Killarney	5,609	865	930	299	300
Killorglin	775	233	238	145	145
Listowel	3,098	593	608	515	516
Millstreet	975	209	217	137	155
Miltown	311	65	66	16	16
Newmarket	838	185	185	198	198
Newtownsandes	230	43	43	44	44
Rathmore	184	33	34	139	139
Tarbert	315	52	55	32	32
Tralee	10,620	2,150	2,190	1,369	1,386
TOTALS	29,595	5,671	6,080	4,267	4,443

WATERFORD DISTRICT.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Arklow	4,680	1,010	1,042	646	697
Ballyhale	102	25	26	10	10
Ballypatrick	—	4	4	76	76
Borris (Carlow)	530	Nil	91	Nil	Nil
Campile	117	14	13	196	196
Cappagh	—	2	2	25	25
Cappoquin	1,038	189	196	59	77
Carnew	516	64	71	30	30
Carrick-on-Suir	4,840	782	796	675	687
Clonmel	9,391	1,257	1,425	754	903
Clonegal	136	27	27	Nil	Nil
Dungarvan	5,361	1,018	1,043	895	894
Dunmore East	308	92	100	5	7
Enniscorthy	5,873	939	973	747	785
Ferns	342	107	107	113	113
Fethard	1,112	228	230	61	63
Gorey	2,323	444	456	414	427
Graiguenamanagh and Tinnahinch	1,125	231	233	114	114
Inistioge	326	43	44	Nil	Nil
Killenaule	511	85	96	555	555
Lismore	1,194	227	238	128	125
New Ross	5,056	779	797	682	754
Newtownbarry and Carrickduff	766	200	207	52	52
Passage East	431	65	65	5	5
Piltown	287	57	62	238	238
Portlaw	847	173	183	813	811
Rosslare Harbour and Kilrane	629	107	119	239	239
Rosslare Strand	189	89	94	47	47
Shillelagh	147	30	29	Nil	Nil
Taghmon	345	53	60	9	9
Tallow	779	160	162	34	34
Thomastown	769	168	179	53	53
Tinahely	296	59	62	Nil	16
Tramore	2,047	702	723	63	63
Waterford	27,968	4,791	4,944	4,968	5,045
Wexford	12,247	1,254	1,482	1,263	1,381
TOTALS ...	92,628	15,475	16,381	13,969	14,531

SUMMARY.

Area Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1946	1947	1946	1947
Athlone District ...	39,541	7,560	7,834	6,755	7,123
Cork No. 1 District ...	99,011	17,274	18,660	18,906	20,076
Cork No. 2 District ...	56,277	10,608	11,087	8,938	10,162
Dublin No. 1 District	475,594	97,001	100,952	71,903	73,713
Dublin No. 2 District	106,666	25,821	27,050	14,751	15,782
Dundalk District ...	65,832	12,201	12,804	23,484	24,293
Galway District ...	39,055	7,052	7,215	4,368	4,464
Limerick District ...	92,229	17,741	18,424	18,703	19,300
Portlaoighise District	63,516	12,284	12,611	10,162	10,751
Sligo District ...	39,604	8,448	8,932	5,073	7,004
Tralee District ...	29,595	5,671	6,080	4,267	4,443
Waterford District ...	92,628	15,475	16,381	13,969	14,531
TOTALS ...	1,199,548	237,136	248,030	201,279	211,642

RATIONING

The following is a summary of the restrictions in force during the year 1946/47. *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	Water Heating	Space Heating	Industrial Process Heating	Motive Power	Traction	Public Lighting	Sign and Outside Display Lighting	All Other Uses
15/5/46	1/4/46— 2/6/46	100%	50%	75%	Exempt	Exempt	Exempt	Exempt	75%	75%
1/6/46	3/6/46—14/8/46	90%	50%	Nil	Exempt	Exempt	Exempt	Exempt	75%	75%
14/8/46	15/8/46—14/2/47	100%	100%	100%	Exempt	Exempt	Exempt	Exempt	100%	100%
14/2/47	15/2/47— 4/3/47	100%	100%	100%	Exempt	Exempt	Exempt	Exempt	Nil	100%
5/3/47	5/3/47—13/3/47	75%	75%	75%	75%*	75%*	75%	75%	Nil	75%
14/3/47	14/3/47—31/3/47	75%	75%	75%	Exempt	Exempt	75%	75%	Nil	75%

* Based on the consumption recorded during the immediately preceding two months.

RATES OF CHARGES IN RURAL AREAS.

SECTION 1.—Dwelling Houses and Farm Premises.

General Supply.

Consumers pay a **Fixed Amount** depending on the Floor Areas of the dwelling and of the outoffices, and, in addition, a **Unit Charge** depending on the number of units used.

The **FIXED AMOUNT** is calculated in accordance with the following table :—

FLOOR AREA	Fixed Amount per two-monthly period. Dwelling £ s. d.	Outoffices* £ s. d.
Less than ... ... 400 sq. ft.	5 10	1 0
400 sq. ft. and over but less than 600 ,,	8 9	1 7
600 ,, ,, ,, 800 ,,	11 8	2 2
800 ,, ,, ,, 1,000 ,,	14 7	2 9
1,000 ,, ,, ,, 1,200 ,,	17 6	3 4
1,200 ,, ,, ,, 1,400 ,,	1 0 5	3 11
1,400 ,, ,, ,, 1,600 ,,	1 3 4	4 6
1,600 ,, ,, ,, 2,000 ,,	1 6 3	5 6
2,000 ,, ,, ,, 2,400 ,,	1 9 2	6 6
2,400 ,, ,, ,, 2,800 ,,	1 12 1	7 6
2,800 ,, ,, ,, 3,200 ,,	1 15 0	8 6
3,200 ,, ,, ,, 3,600 ,,	1 17 11	9 6
3,600 ,, ,, ,, 4,000 ,,	2 0 10	10 6
4,000 ,, ,, ,, 4,400 ,,	2 3 9	10 11
4,400 ,, ,, ,, 4,800 ,,	2 6 8	11 4
4,800 ,, ,, ,, 5,200 ,,	2 9 7	11 9
5,200 ,, ,, ,, 5,600 ,,	2 12 6	12 2
5,600 ,, ,, ,, 6,000 ,,	2 15 5	12 7
6,000 ,, ,, ,, 7,000 ,,	2 18 4	13 7
7,000 ,, ,, ,, 8,000 ,,	3 5 2	14 7
8,000 ,, ,, ,, 9,000 ,,	3 12 0	15 7
9,000 ,, ,, ,, 10,000 ,,	3 18 10	16 7
Over 10,000 sq. ft.	4 5 8	17 7
For each complete 1,000 sq. ft. in excess of 10,000 sq. ft.	plus 4 0	plus 1 0

The **UNIT CHARGES** payable in addition to the above fixed amounts are :—

For the first 80 units per two-monthly period ... ... **2½d.** per unit.
For the next 280 units per two-monthly period ... ... **1d.** ,,
For the excess over 360 units per two-monthly period ... **¾d.** ,,

* The minimum Fixed Amount for Outoffices when chargeable as individual premises is **5s. 6d.** per two-monthly period.

NOTES.

General Supply includes electricity used for all domestic purposes such as light, radio, iron, kettle, cooker, water-heater, etc., and all normal farmyard purposes. It does not include the use of an electric motor larger than Three Horse Power.

If any **Commercial Enterprise** is conducted in the consumer's Dwelling or Outoffices the Board reserves the right to meter any portion of the supply separately and to apply the charges set out in Section 3.

Floor Area is calculated on **outside** dimensions and number of floors. Small bay windows, small porches, etc., are not included. **Outoffice area** as specified by the Board must be included in calculating the Fixed Amount payable, whether wired for electricity or not. Outoffices which by reason of distance, or otherwise, require a **direct service connection** from the Board's mains are metered separately and charged for as individual premises on the " Outoffices " scale of charges, the minimum Fixed Amount in such cases being taken as **5s. 6d.** per two-monthly period.

Steward's Houses, Gate Lodges, etc., are metered separately and charged for as individual Dwelling Houses.

SECTION 2—Dwellings and Business Premises combined

General Supply.

The rates of charge are as for Dwelling Houses and Farm Premises with an **additional** Fixed Amount of **2s. 11d.** per two-monthly period irrespective of the floor area.

(This Section applies only where the residential and business portion of the premises are occupied by the same family. Where this is not the case the residential portion is charged for separately under Section 1 and the charges set out in Section 3 are applied to the business portion, which must be suitably wired for separate metering. Premises occupied by Limited Companies are chargeable under Section 3.

The Board reserves the right to meter any portion of the supply separately and to apply the charges set out in Section 3).

SECTION 3—All Other Premises

Lighting

For the first 1,000 units	per two-monthly period	8½d. per unit.
For the next 1,200	,, ,, ...	7d. ,,
,, 2,400	,, ,, ...	5½d. ,,
,, 32,400	,, ,, ...	3d. ,,
For excess over 37,000	,, ,, ...	1½d. ,,

Heating

For all units ... ... 1¾d per unit.

Motive Power (other than stand-by or auxiliary supplies).

For the first 1,666 units	per two-monthly period	3½d. per unit.
For the next 666	,, ,, ...	2d. ,,
For excess over 2,332	,, ,, ...	1½d. ,,

Lighting Allowance for Motive Power Users

In any two-monthly accounting period in which the motive power consumption exceeds 4,000 units, lighting consumption on the same account up to an amount of one-twentieth of the motive power consumption in that period is charged at **3½d.** per unit. Unused portions of the allowance cannot be transferred to other periods. Lighting consumption in excess of the allowance is chargeable at the lighting rates quoted above.

Cooking and Process Heating

For the first 1,000 units	per two-monthly period	1½d. per unit.
For the next 2,000	,, ,, ...	1d ,,
For excess over 3,000	,, ,, ...	¾d. ,,

Water Heating

For all units ... ... ¾d. per unit.

Water heaters must be of the **storage** type and **thermostatically controlled.** The **maximum loading** permitted is 500 watts for all sizes up to 6½ gallons, and thereafter at the rate of 1,000 watts per 13 gallons capacity.

Minimum Charge

5s. 0d. per two-monthly period (plus Meter Rental).

SECTION 4—Meter Rental

(Applicable to all Consumers).

No meter rental is charged on the **first** lighting meter or general meter. Rental is charged on all **other** meters as follows :—

Not over 10 amps size	1s. 0d.	per two-monthly period
Over 10 amps but not larger than 20 amps ...	1s. 8d.	
Over 20 amps but not larger than 100 amps ...	2s. 4d.	
Over 100 amps	5s. 0d.	

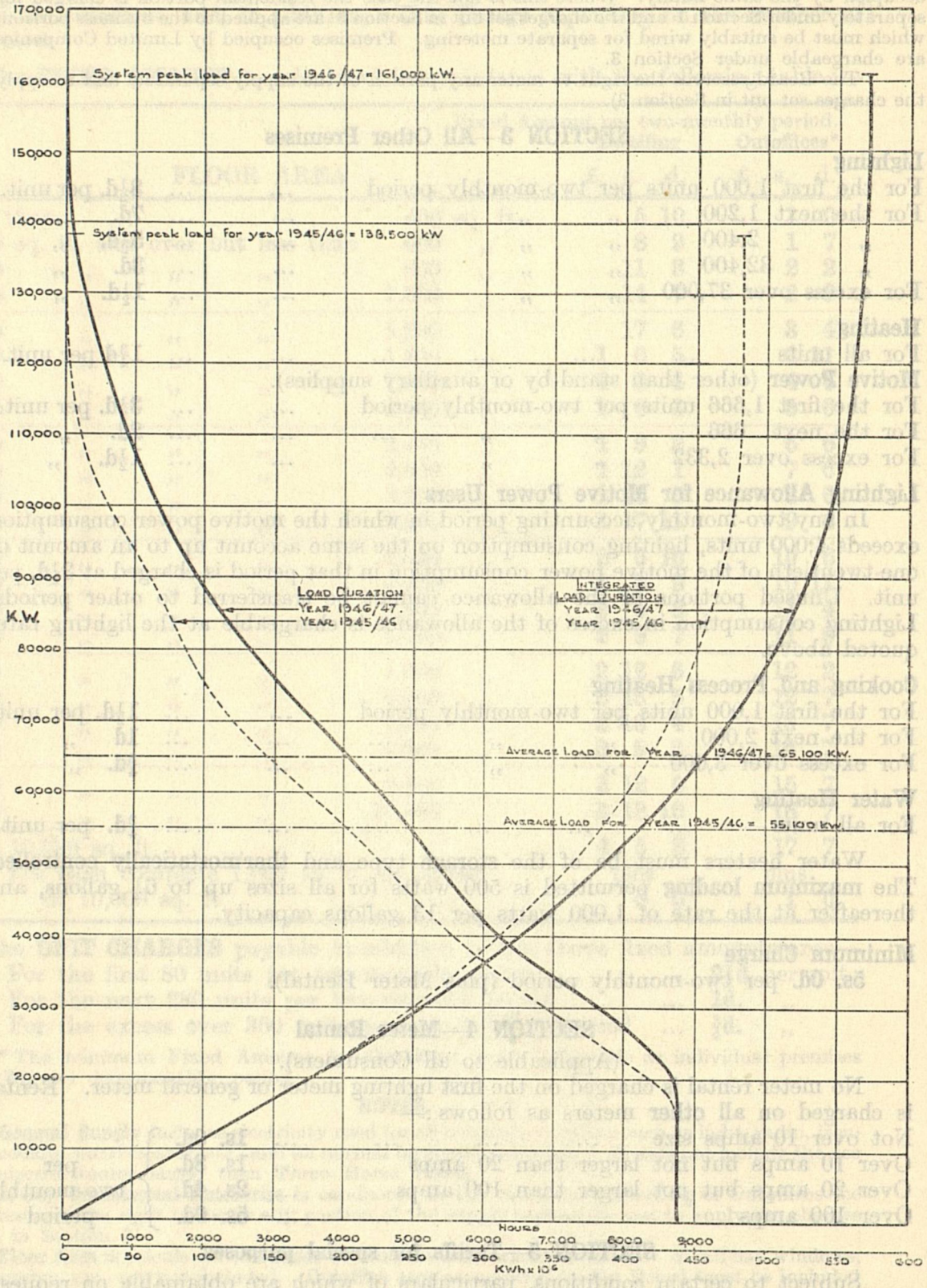
SECTION 5—Tariffs for special purposes

Subject to certain conditions, particulars of which are obtainable on request, special arrangements can be made for :— ...

Industrial Power Supplies (Maximum Demand Tariff).
Motive Power Supplies in Creameries.
Charging of Traction Batteries.
General Supply for Cinemas.
Seasonal and Temporary Supplies.

GENERATION LOAD DURATION, AND INTEGRATED LOAD DURATION, CURVES

YEAR 1946/47



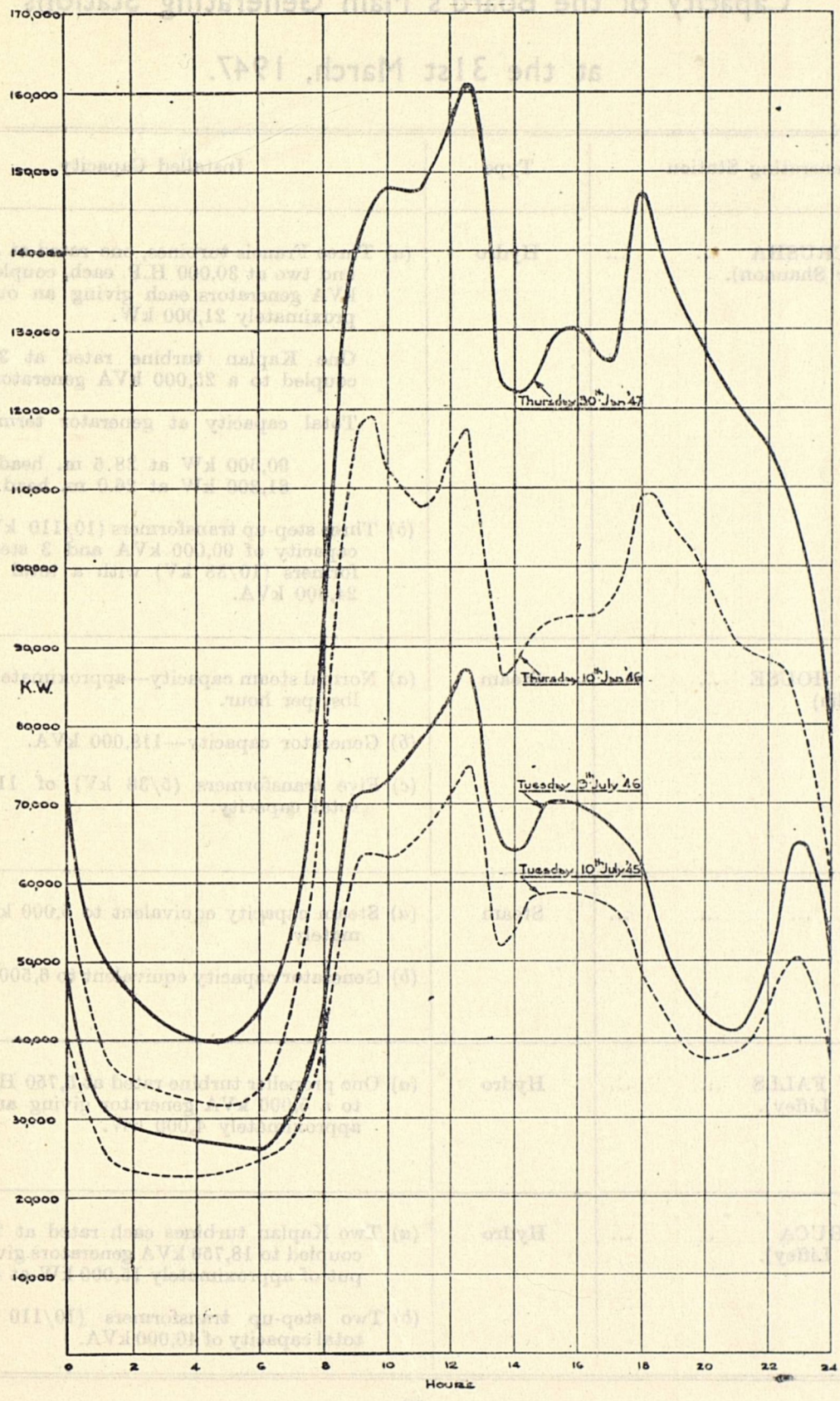
Distribution at High Tension of Units generated and purchased in bulk from the Electricity Board for Northern Ireland. Year ended 31st March, 1947.

District, etc.		High Tension Units	Percentage of Total
Dublin City 5 kV. Supply	121,875,000		
Dublin City 10 kV. Supply	42,867,000		
TOTAL SUPPLY TO DUBLIN CITY		164,742,000	28·8
Córas Iompair Éireann (Dublin Tramways)		7,767,100	1·4
Cork City D.C. Supply	11,053,000		
Cork City A.C. Supply	24,997,000		
TOTAL SUPPLY TO CORK CITY		36,050,000	6·3
Athlone District		17,229,300	3·0
Cork No. 2 District		18,626,000	3·2
Dublin No. 2 District		60,893,000	10·6
Dundalk District		47,914,000	8·4
Galway District		10,719,600	1·9
Limerick District		42,826,200	7·5
Portlaoighise District		26,367,600	4·6
Sligo District		13,542,200	2·4
Tralee District		8,567,400	1·5
Waterford District		28,176,300	4·9
Station Auxiliaries		23,300,000	4·1
High Tension Losses		65,155,600	11·4
Total generation of all stations	570,376,200		
Bulk supply purchased from E.B.N.I.	1,500,100		
Total generation of all stations plus bulk supply purchased from E.B.N.I.		571,876,300	100·0

Outputs (kWh) of the Board's Generating Stations and bulk supply (kWh) purchased from the Electricity Board for Northern Ireland.—Year ended 31st March, 1947.

Month (Calendar)	Ardnacrusha	Pollaphuca	Golden Falls	Pigeon House Dublin	Cork	Total of all Generating Stations	Bulk supply purchased from E.B.N.I.	Total generation and bulk supply purchased from E.B.N.I.
April ...	11,876,600	1,800,600	591,000	27,226,500	50,000	41,544,700	105,200	41,649,900
May ...	7,339,800	4,043,700	1,473,000	28,001,900	252,800	41,111,200	112,700	41,223,900
June ...	6,594,800	1,291,900	460,800	26,111,000	298,600	34,757,100	103,300	34,860,400
July ...	13,255,400	468,700	144,700	21,517,200	484,400	35,870,400	115,600	35,986,000
August ...	16,547,600	680,800	218,800	18,570,900	23,900	36,042,000	91,500	36,133,500
September ...	34,848,700	2,649,300	859,400	2,489,200	—	40,846,600	108,300	40,954,900
October ...	35,430,700	3,954,500	1,319,100	9,729,300	72,100	50,505,700	133,700	50,639,400
November ...	31,805,300	3,997,500	1,364,600	17,111,900	219,200	54,498,500	143,200	54,641,700
December ...	44,786,000	3,554,000	1,228,100	12,191,600	231,300	61,991,000	147,400	62,138,400
January ...	46,409,600	4,847,500	1,600,500	13,113,800	198,000	66,169,400	173,000	66,342,400
February ...	29,507,700	5,431,000	1,763,200	21,049,800	19,000	57,770,700	134,800	57,905,500
March ...	37,276,300	3,009,000	1,157,000	7,826,600	—	49,268,900	131,400	49,400,300
TOTALS ...	315,678,500	35,728,500	12,180,200	204,939,700	1,849,300	570,376,200	1,500,100	571,876,300

TYPICAL DAILY GENERATION LOAD CURVES, YEAR 1946/47.

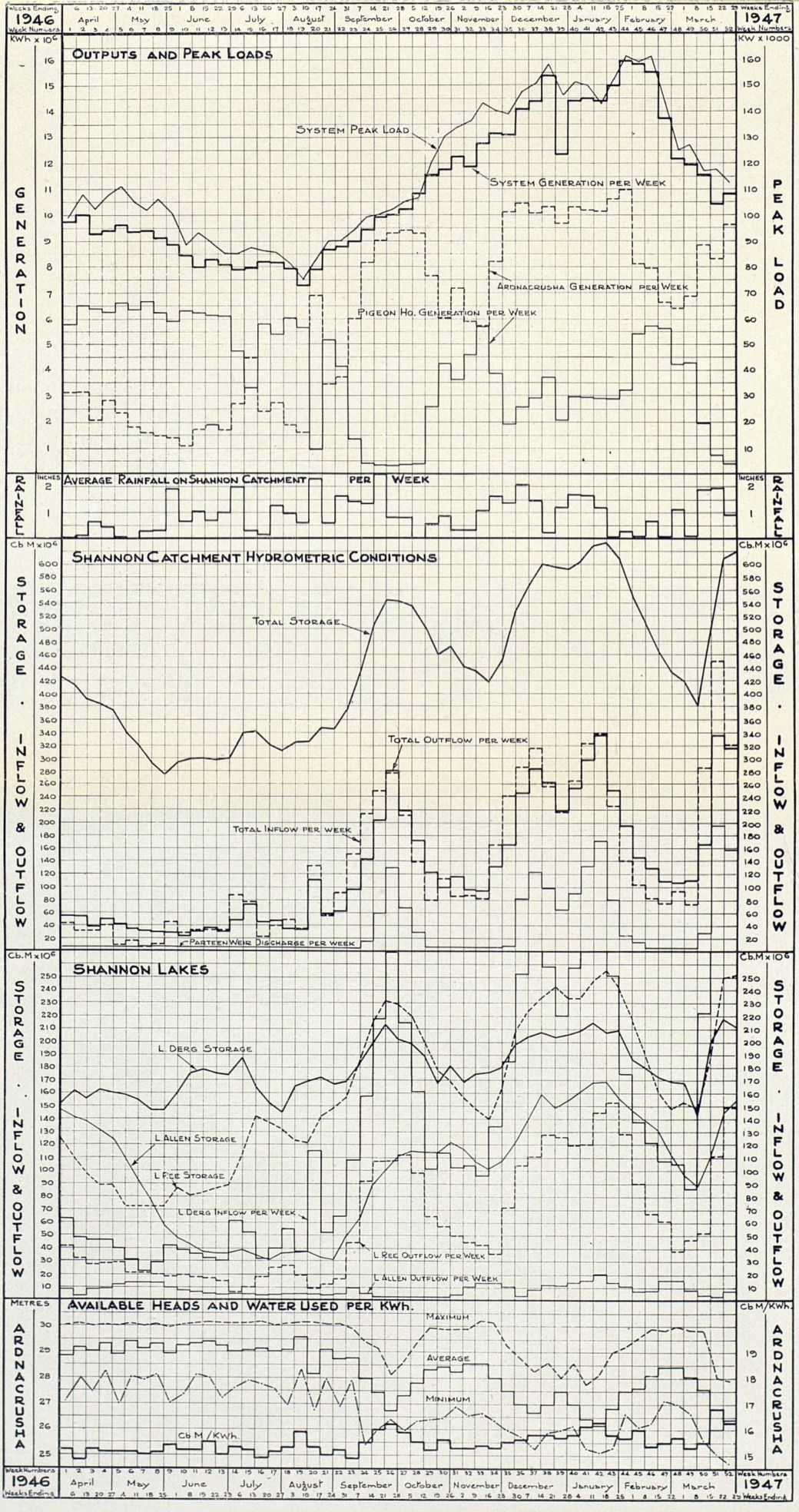


Capacity of the Board's Main Generating Stations at the 31st March, 1947.

Generating Station	Type	Installed Capacity
ARDNACRUSHA ... ... (River Shannon).	Hydro	(*a*) Three Francis turbines, one rated at 34,000 H.P. and two at 30,000 H.P. each, coupled to 30,000 kVA generators each giving an output of approximately 21,000 kW. One Kaplan turbine rated at 30,000 H.P coupled to a 25,000 kVA generator. Total capacity at generator terminals :— 90,600 kW at 28.5 m. head. 81,300 kW at 26.0 m. head. (*b*) Three 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*) Five transformers (5/38 kV) of 110,000 kVA total capacity.
CORK	Steam	(*a*) Steam capacity equivalent to 5,000 kW approximately. (*b*) Generator capacity equivalent to 6,500 kW (D.C.).
GOLDEN FALLS ... ... (River Liffey).	Hydro	(*a*) One propeller turbine rated at 5,750 H.P. coupled to a 5,000 kVA generator giving an output of approximately 4,000 kW.
POLLAPHUCA .. ... (River Liffey).	Hydro	(*a*) Two Kaplan turbines each rated at 21,000 H.P. coupled to 18,750 kVA generators 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.

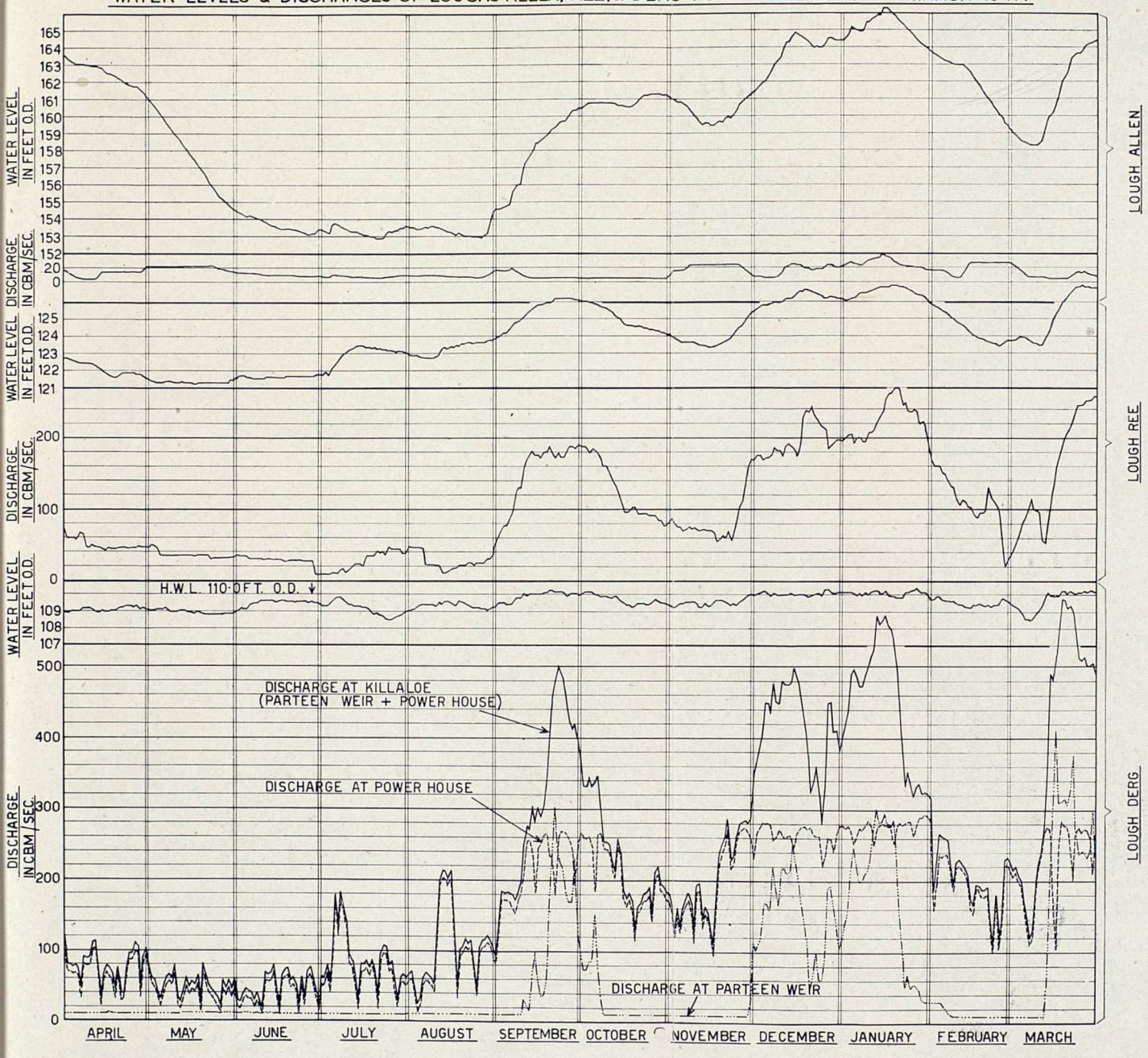
SHANNON CATCHMENT

Weekly Summary of Operating Conditions, Year ended 31st March, 1947.



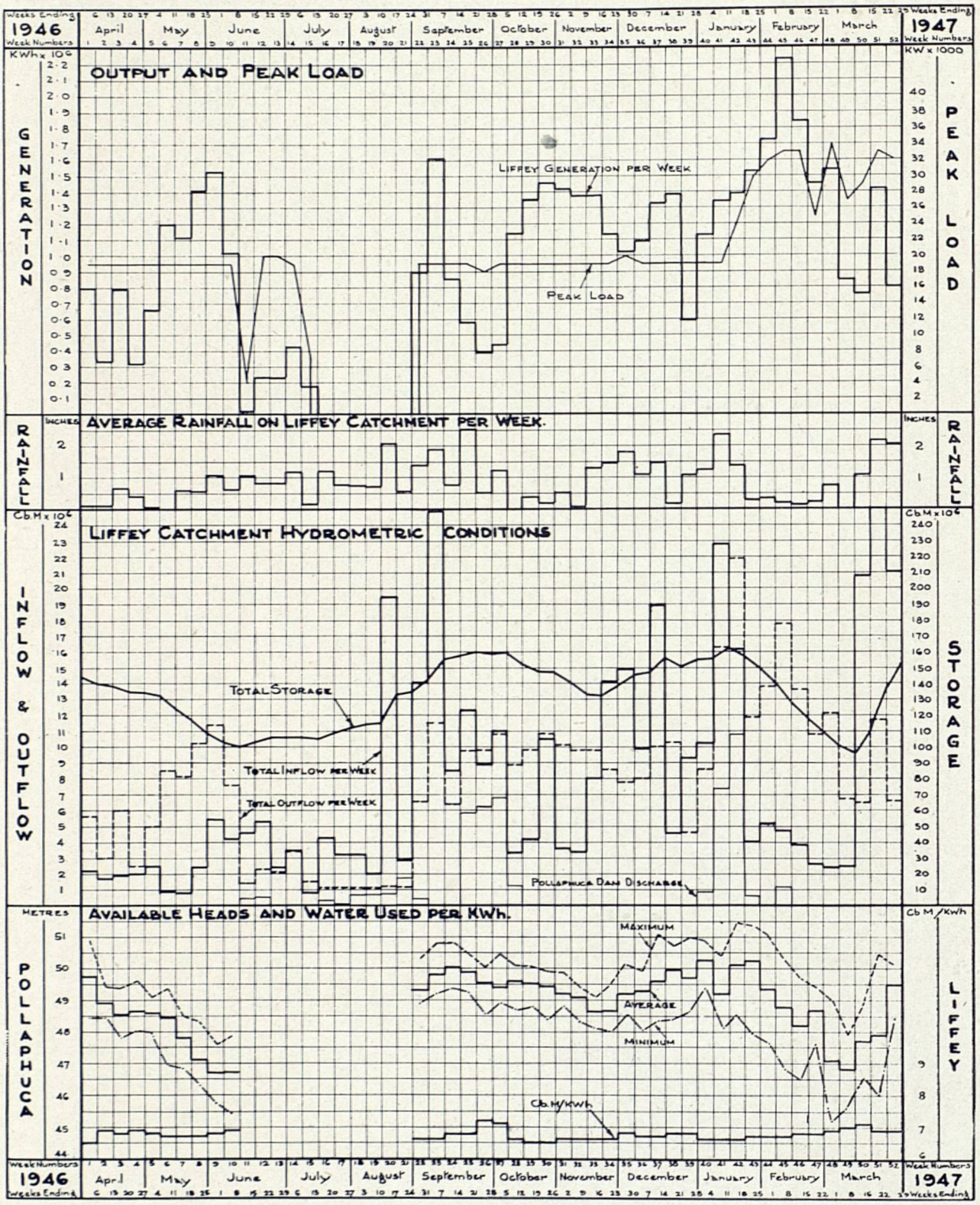
To face page 40 (a).

WATER LEVELS & DISCHARGES OF LOUGHS ALLEN, REE, & DERG FOR YEAR ENDING 31ST MARCH 1947.

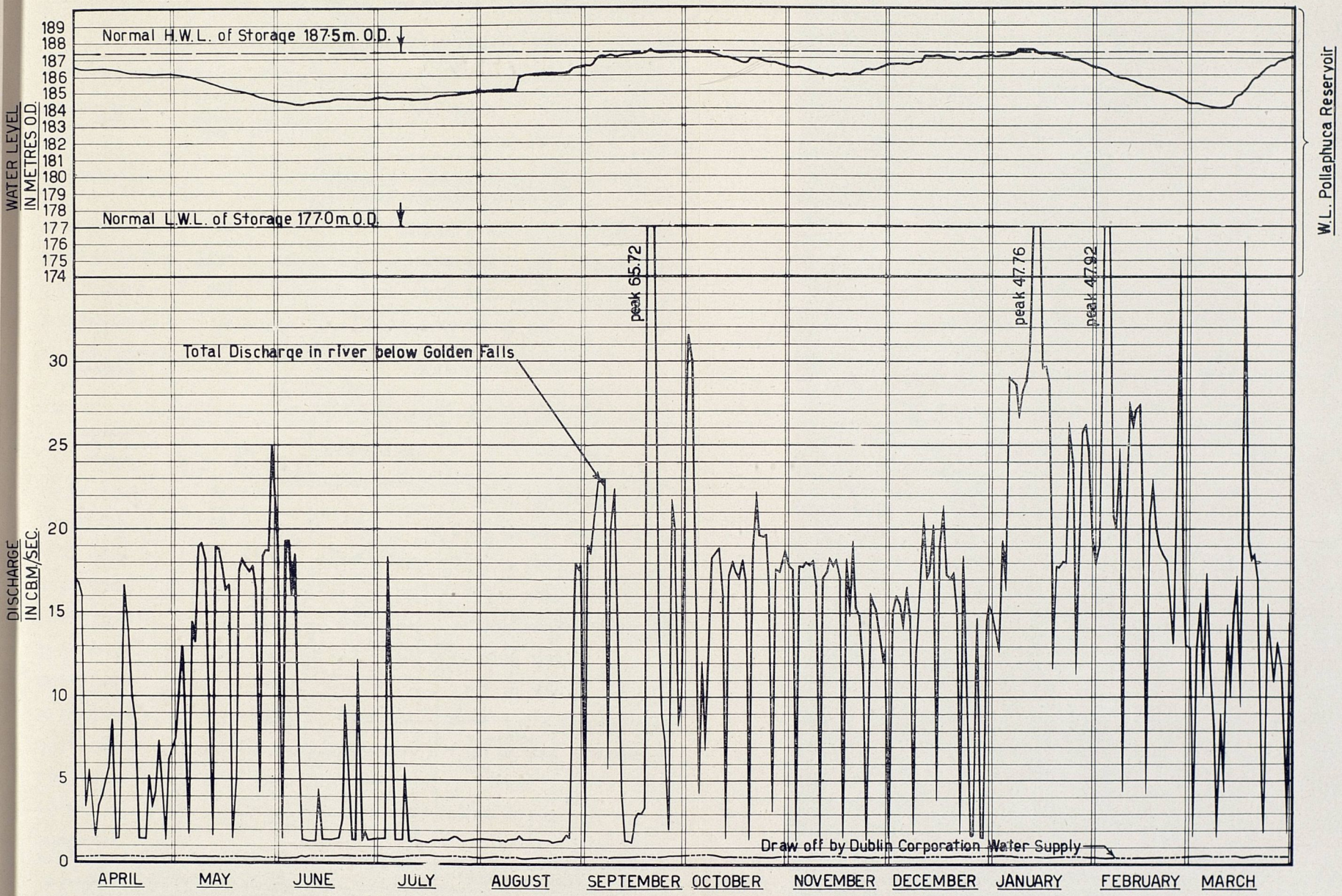


LIFFEY CATCHMENT

Weekly Summary of Operating Conditions, Year ended 31st March, 1947.



WATER LEVELS & DISCHARGES OF POLLAPHUCA RESERVOIR FOR YEAR ENDING 31ST MARCH 1947.



Transmission and Distribution Systems in Commission and under Construction at the 31st March, 1947.

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 k VA.	—
38 kV. Stations ...	98	1	260,490 kVA.	2,960 kVA.
10 kV. Substations	1,639	120	191,280 kVA.	11,295 kVA.
5 kV. Substations	108	—1	86,298 kVA.	140 kVA.
D.C. Substations	6	—	9,260 kW.	—
Frequency Changing Substations ...	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 ...	1,907·0 Kms.	16·1 Kms.	3 ×50 sq. mm.
38 kV. Lines ...	328·2 Kms.	—	3 ×35 sq. mm.
10 kV. Lines ...	3,626·2 Kms.	126·4 Kms.	3 ×10 sq. mm. to 3 ×70 sq. mm.
38 kV. Cables ...	68·5 Kms.	7·4 Kms.	3 ×185 sq. mm.
38 kV. Cables ...	27·7 Kms.	—	3 ×150 sq. mm.
38 kV. Cables ...	1·5 Kms.	—7·4 Kms.	3 ×95 sq. mm. (including 1 Km. submarine).
10 kV. Cables ...	300 Kms.	14·2 Kms.	3 ×10 sq. mm. to 3 ×185 sq. mm.
5 kV. Cables ...	267·7 Kms.	—	Ditto.
3·3 kV. Cables ...	3·7 Kms.	—	3 ×185 sq. mm.
Rural Lines : 10 kV. and L.T.	63·3 Kms.	63·3 Kms.	25 sq. mm. and 35 sq. mm. single and three phase.

Particulars of Permitted Electricity Undertakings at 31st March, 1947.

NOTE.—In 8 cases where the number of consumers is 3 or under, Permits have also been issued. These undertakings are not shown in the following Schedule.

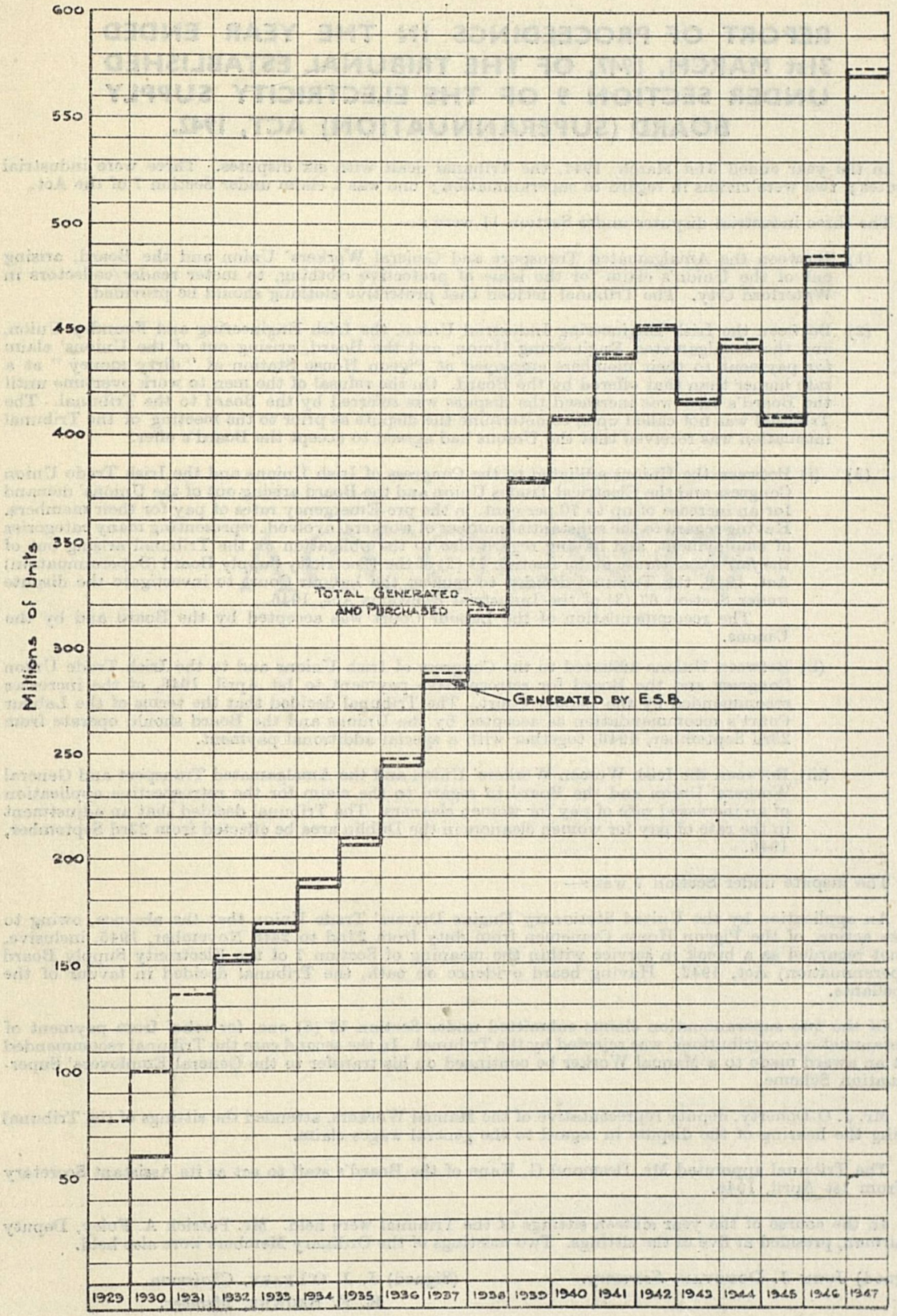
(1) Town	(2) Population	(3) Name of Undertaker	(4) No. of Consumers	(5) Normal Tariffs per Unit for			(6) Units Sold, Year ended 31st March, 1947
				Lighting	Heating and Cooking	Power	
Ardara	442	The Ardara Woollen & Industrial Co., Ltd ...	134	1/–	3d.	3d.	23,110
Ardfinnan	325	Mulcahy, Redmond & Co., Ltd.	13	1/6	—	—	2,184
Aughrim	—	W. J. Byrne	8	—	—	—	800 estd.
Balla	282	John McEllin	58	1/3	1/3	7½d.	7,330
Ballinlough	248	Ballinlough Electricity Supply Co. ...	54	1/6	1/–	1/–	2,250
Ballinamore	814	F. J. McAvinia	129	1/2	—	—	10,000 estd.
Ballinrobe	1,351	The Ballinrobe Electric & Woollen Co., Ltd.	278	1/–	1/–	—	37,169
Ballybofey and Stranorlar	1,198	Ballybofey & Stranorlar Electric Supply Co.	184	1/–	—	6d.	29,714
Ballyconnell	276	William Stewart	92	1/–	—	—	10,000 estd.
Ballysodare	205	W. G. & T. Pollexfen	47	7½d.	3d.	3d.	17,272
Belmont	—	Robert Perry & Co. (1927), Ltd. ...	23	6d.	—	4d.	3,982
Belmullet	684	M. McEntyre	107	1/–	—	6d.	14,530
Birr	3,297	The Birr E. L. & Power Co., Ltd. ...	596	9d.	2d., 3d.	3d., 4d.	172,208
Blacklion	110	Capt. W. J. Nixon	29	1/3 & 1/6	—	—	3,600
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, 1947
				Lighting	Heating and Cooking	Power	
Boyle	—	John Stewart	494	Miscellaneous 3d. to ½d. per unit			244,926
Buncrana	2,295	The Buncrana Electric Supply Co. ...	434	3d. to 7d.	1d. to 2d.	3d. to 4d.	
Cahirciveen	1,680	The Cahirciveen E. L. & Power Co., Ltd.	315	6d. to 8d.	1½d. to 6d.	1½d. to 3½d.	219,340
Carlingford	488	The Carlingford Electricity Co., Ltd. ...	104	10d.	6d.	6d.	41,122
Carndonagh	660	James Kelly	205	1/-	—	—	15,000 estd.
Carrigart	115	Dermot Walsh	19	1/-	5d.	5d.	38,580 estd.
Castlebellingham ...	243	Smallwares, Ltd.	14	1/-	—	—	1,650
Castlepollard	460	The Castlepollard Town Improvements Association	94	4d. & 6d.	—	3d.	13,640
Clifden	1,019	Clifden E. L. & Power Station	140	1/-	—	—	19,734
Clogheen	479	John Browne	91	1/-	6d.	—	15,000 estd. approx.
Clonmany	123	Patrick Gallen	52	1/2	6d. Miscellaneous	6d.	16,328
Clonmellon	273	Clonmellon Hydro Electric Co., Ltd. ...	61	1/-	—	6d.	2,700 estd.
Cloughjordan	416	Martin Gleeson	96	1/- to 9/- per week according to number of lights	—	3d.	15,000 estd.
Collooney	310	W. A. G. Middleton	122	11d.	—	—	15,800
Dingle	1,800	The Dingle E. L. & Power Co.	199	7½d.	1½d.	2d.	45,961
Donegal	1,315	J. McGowan & Sons	256	8d. & 10d.	5d.	5d. & 4d.	30,877
Drumkeeran	232	The Drumkeeran Electricity Supply Co., Ltd.	51	1/-	6d.	5d.	65,758
Drumshambo	553	C. S. Laird, Ltd.	104	1/3	4d.	Miscellaneous 4d.	5,024
Dromahair	279	Paul Jeiter	46	8d.	2d.	2d.	34,900
Dungloe	593	The Templecrone Co-op. Agrl. Society, Ltd.	151	8d. & 9d.	3d. & 1½d.	—	6,821
Dunmore Co. Galway ...	482	Dunmore Electric Light Co., Ltd. ...	95	8d.	—	—	9,480
Emyvale	237	C. McCluskey	47	1/5	—	9d.	12,414
Falcarragh	—	Leo McGinley	59	8d.	—	—	7,124
Frenchpark	196	Frenchpark Electric Lighting Co., Ltd. ...	37	1/2	—	—	5,641
Frosses, Co. Donegal ...	—	Michael Campbell	17	1/6 & 1/3	—	8d.	3,092 estd.
Glaslough	—	David Patton	8	1/-	—	—	997
Glendalough	182	Messrs. Wynne	12	1/-	—	—	1,192
Glenmore, Co. Kilkenny	—	Glenmore Co-Operative Creamery, Ltd. ...	27		Included in rent.	—	10,000 estd.
Glenties	360	Glenties Electricity Supply Co., Ltd. ...	102	1/-	—	—	3,205
Gortahork	—	Michael McFadden	6	1/1	4d.	—	13,706
Kenmare	921	Kenmare Electric Supply Co.	301	1/-	—	—	460
				6d. to 10d.	3d.	3d.	67,900

(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, 1947
				Lighting	Heating and Cooking	Power	
Killybegs	631	Irish Sea Fisheries Association Ltd. ...	128	1/–	6d.	6d.	14,600
Kilmacthomas ...	357	Patrick Kiersey	51	1/–	—	1/–	10,000 estd.
Kinnegad	270	Thomas Dunne	11	1/–	1/–	—	18,570
Letterfrack	—	The Superior, Industrial School	14	8d.	—	—	2,009
Malin, Co. Donegal ...	112	Matthew O'Doherty	48	1/3	—	1/3	2,600 estd.
Milford, Co. Donegal ...	377	McMahon Bros.	42	1/–	—	—	4,200
Milford, Co. Donegal ...		William Russell	30	1/3	—	—	4,258
Miltownpass	80 estd.	Miltownpass Elec. Light & Power Co., Ltd. ...	18	1/– per week per lamp	—	—	1,700 estd.
Mountbellew	284	Mountbellew Co-op. Agrl. Dairy Society, Ltd.	47	1/–	—	—	5,000 estd.
Moville	937	The Moville Electric Supply Co.	270	9d. & 10d.	—	4d. & 3d.	65,550
Pettigo	251	Shaw Bros.	74	10d.	—	—	5,758
Portumna	894	The Portumna E. L. & Power Co., Ltd. ...	190	1/– & 1/2	—	9d.	30,647
Ramelton	924	Robert J. Campbell	103	1/–	4d.	6d. & 8d.	17,193
Raphoe	754	Raphoe Electric Lighting Co., Ltd. ...	84	1/–	—	8d.	12,336
Rathfarnham	657	The Rathfarnham Mfg. Co., Ltd. ...	30	3·6d.	3·6d.	3·3d.	23,515
Riverstown, Co. Sligo ...	225	Flanagan Thomas	7	1/6, 2/6	—	—	613
Roundwood	—	Joseph Keenan	46	1/1, 11d., 9d.	1/1, 11d., 9d.	1/1, 11d., 9d.	2,800 estd.
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)	2,320 estd.
St. Johnston, Co. Donegal	270	Edward J. White	53	1/–	—	—	9,500
Sixmilebridge	323	James O'Flynn & Sons, Ltd.	39	10d., 8d., 6d. & 3d.	—	—	7,000 estd.
Waterville	164	Electricity Supply Co., Ltd. Waterville, Co. Kerry	73	1/–	7d.	—	10,198
Windgap	72	Windgap Co-op. Dairy Society, Ltd. ...	8	Fixed yearly rental of £6	—	—	1,400
Woodford	184	Mrs. John Roche	21	10d.	6d.	—	4,020 estd.
Various Districts ...	—	Great Northern Railway Co. (Ireland) ...	75	1·3d. to 10d.	1·3d. to 1·75d.	·84d. to 3½d.	42,753

Total No. of undertakings 70 ; Total Population 34,802 ; Total No. of Consumers 7,045 ; Units sold 1,642,451 approximately.

UNITS GENERATED FROM APRIL 1ST, 1928 TO MARCH 31ST, 1947.



ELECTRICITY (SUPPLY) ACTS.

REPORT OF PROCEEDINGS IN THE YEAR ENDED 31st MARCH, 1947, OF THE TRIBUNAL ESTABLISHED UNDER SECTION 9 OF THE ELECTRICITY SUPPLY BOARD (SUPERANNUATION) ACT, 1942.

In the year ended 31st March, 1947, the Tribunal dealt with six disputes. Three were industrial disputes; two were claims in regard to superannuation; one was a claim under Section 7 of the Act.

The three industrial disputes under Section 11 were :—

(1) Between the Amalgamated Transport and General Workers' Union and the Board, arising out of the Union's claim for the issue of protective clothing, to meter reader/collectors in Waterford City. The Tribunal decided that protective clothing should be provided.

(2) Between the Irish Engineering Industrial Union, the Irish Engineering and Foundry Union, and the Amalgamated Engineering Union, and the Board, arising out of the Unions' claim for payment to their members employed at Pigeon House Station of "dirty money" at a rate higher than that offered by the Board. On the refusal of the men to work overtime until the Board's offer was increased the dispute was referred by the Board to the Tribunal. The Tribunal was not called upon to determine the dispute as prior to the meeting of the Tribunal intimation was received that the Unions had agreed to accept the Board's offer.

(3) (i) Between the Unions affiliated to the Congress of Irish Unions and the Irish Trade Union Congress and the Electrical Trades Union and the Board arising out of the Unions' demand for an increase of up to 70 per cent. in the pre-Emergency rates of pay for their members. Having regard to the substantial number of workers involved, representing many categories of employment, and having regard also to the obligation on the Tribunal arising out of the *fair wages clause* under Section 11 (2) of the Electricity Supply Board (Superannuation) Act, 1942, the Tribunal decided to request the Labour Court to investigate the dispute under Section 67 (3) of the Industrial Relations Act, 1946.

The recommendation of the Labour Court was accepted by the Board and by the Unions.

(ii) Between Unions affiliated to the Congress of Irish Unions and to the Irish Trade Union Congress and the Board for retrospective payment to 1st April, 1946, of the increases recommended by the Labour Court. The Tribunal decided that the terms of the Labour Court's recommendation as accepted by the Unions and the Board should operate from 23rd September, 1946, together with a special additional payment.

(iii) Between the Irish Women Workers' Union and the Amalgamated Transport and General Workers' Union and the Board in regard to the claim for the retrospective application of an increased rate of pay for women cleaners. The Tribunal decided that an adjustment in the rate of pay for women cleaners in the Dublin area be effected from 23rd September, 1946.

The dispute under Section 7 was :—

An application by the United Stationary Engine Drivers' Trade Union that the absence, owing to strike action, of the Pigeon House Cranemen from duty from 22nd to 24th November, 1945, inclusive, be not regarded as a break in service within the meaning of Section 7 of the Electricity Supply Board (Superannuation) Act, 1942. Having heard evidence on oath, the Tribunal decided in favour of the Appellants.

Of the two superannuation claims submitted under Section 13 (6) one, for relief from payment of superannuation contributions, was rejected by the Tribunal. In the second case the Tribunal recommended that an award made to a Manual Worker be continued on his transfer to the General Employees' Superannuation Scheme.

Mr. J. O'Doherty, deputy representative of the Manual Workers, attended the sittings of the Tribunal during the hearing of the dispute in regard to the general wages claim.

The Tribunal appointed Mr. Desmond G. Kane of the Board's staff to act as its Assistant Secretary as from 1st April, 1946.

In the course of the year sixteen sittings of the Tribunal were held. Mr. Patrick A. Foley, Deputy Chairman, presided at five of the sittings. Two meetings of the Ordinary Members were also held.

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

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

Date : 16*th May*, 1947.

ACCOUNTS

No. 1. **INSTALLATIONS TRADING ACCOUNT FOR**

Dr.

	£	s.	d.	£	s.	d.	Year 1945/46 £
To Cost value of work for which credit had not been taken at 31st March, 1946				24,304	13	5	11,380
,, Cost of installation work carried out during the year ...				103,720	10	1	65,793
,, Gross profit, carried down				26,346	3	7	19,174
				£154,371	7	1	£96,347
To Salaries, wages and state insurance ...	14,942	6	3				
,, Travelling expenses	443	0	10				
,, Rents and rates	189	15	3				
,, Sundry expenses	867	14	8				
,, General overhead expenses and interest, as apportioned...	5,095	3	7				
				21,538	0	7	14,930
,, Balance, carried to Net Revenue Account				4,808	3	0	4,244
				£26,346	3	7	£19,174

No. 2. **MERCHANDISE TRADING ACCOUNT FOR**

Dr.

	£	s.	d.	£	s.	d.	Year 1945/46 £
To Cost value of transactions for which credit had not been taken at 31st March, 1946				8,381	8	11	3,141
,, Cost of goods issued as sales				80,566	10	2	33,630
,, Sundry costs in connection with sales				4,745	12	7	3,127
,, Gross profit, carried down				23,038	7	5	9,905
				£116,731	19	1	£49,803
To Salaries, wages, commission and state insurance	5,598	14	1				
,, Travelling expenses	160	10	11				
,, Rents and rates	414	1	9				
,, Sundry expenses	428	1	9				
,, General overhead expenses and interest, as apportioned	5,055	4	9				
				11,656	13	3	7,420
,, Balance, carried to Net Revenue Account				11,381	14	2	2,485
				£23,038	7	5	£9,905

THE YEAR ENDED 31st MARCH, 1947.

Cr.

				Year 1945/46
	£	s.	d.	£
By Credit taken for contracts completed and charged ...	108,043	11	9	72,042
„ Cost value of work for which credit has not yet been taken	46,327	15	4	24,305
	£154,371	7	1	£96,347
By Gross profit, brought down	26,346	3	7	19,174
	£26,346	3	7	£19,174

THE YEAR ENDED 31st MARCH, 1947.

Cr.

				Year 1945/46
	£	s.	d.	£
By Credit taken for sales	99,791	7	8	41,422
„ Cost value of transactions for which credit has not yet been taken	16,940	11	5	8,381
	£116,731	19	1	£49,803
By Gross profit, brought down	23,038	7	5	9,905
	£23,038	7	5	£9,905

No. 3. ELECTRICITY REVENUE ACCOUNT FOR
Dr.

	£ s. d.	£ s. d.	Year 1945/46 £
To GENERATION :			
Operating expenses	137,454 1 5		
Fuel	679,744 18 8		
Maintenance and repair	126,096 10 8		
Transfer to depreciation reserve ...	95,000 0 0		
Supervision and local administration	48,821 2 6		
		1,087,116 13 3	882,496
„ ELECTRICITY PURCHASED IN BULK ...		6,617 6 11	6,297
„ TRANSMISSION :			
Operating expenses	19,541 3 4		
Maintenance and repair	55,769 17 0		
Transfer to depreciation reserve ...	100,000 0 0		
Supervision and local administration	33,013 7 8		
		208,324 8 0	172,768
„ DISTRIBUTION :			
Operating expenses	247,111 17 2		
Maintenance and repair	113,572 11 6		
Transfer to depreciation reserve ...	136,000 0 0		
Supervision and local administration	275,421 10 1		
		772,105 18 9	663,394
„ GENERAL ADMINISTRATION :			
Board, Secretariat and Consultants ...	45,816 8 1		
Engineering	76,503 11 6		
Accounting	67,739 16 9		
Audit fee	1,500 0 0		
Sales promotion and publicity ...	31,894 14 2		
General expenses	57,760 7 0		
Transfer to depreciation reserve—general assets	4,000 0 0		
	285,214 17 6		
Less : apportionment charged to other accounts and to capital works ...	14,464 0 0		
		270,750 17 6	211,834
„ Provision for bad debts		1,000 0 0	1,000
„ Depreciation of stocks of material ...		6,867 16 4	9,906
„ Balance, carried to Profit and Loss Account		1,255,855 13 11	1,128,243
		£3,608,638 14 8	£3,075,938

THE YEAR ENDED 31st MARCH, 1947.

Cr.

		£ s. d.	£ s. d.	Year 1945/46 £
By Charges for electricity, etc.:				
General consumers	...	3,423,369 8 1		
Public lighting ...	...	... 113,637 9 6		
Meter and other rents	...	... 51,542 14 6		
			3,588,549 12 1	3,061,518
„ Miscellaneous revenue ...	...	... ...	20,089 2 7	14,420
			£3,608,638 14 8	£3,075,938

No. 4.
Dr.

ELECTRICITY PROFIT AND LOSS ACCOUNT

	£ s. d.	£ s. d.	Year 1945/46 £
To Interest payable to the Minister for Finance	647,449 12 9		
,, Interest on loans and loan-stocks of acquired undertakings	11,821 16 1		
,, Other interest	268,114 14 11		
	927,386 3 9		
Less : apportionment charged to other accounts and to capital works ...	17,750 0 0		
		909,636 3 9	885,230
,, Loan-stock management charges		51 4 3	76
,, Gross contributions to loan-stock sinking funds of acquired undertakings		17,558 12 8	16,220
,, Reserves, being the amount of capital repaid or provided for repayment in respect of advances from the Minister for Finance	89,047 8 11		
acquired undertakings	477 4 1		
		89,524 13 0	85,234
,, Premium at which loan-stock was redeemed		351 11 10	2,482
,, Balance carried down		250,528 14 3	146,876
		£1,267,650 19 9	£1136118
To Annuity in respect of moiety of advance by the Minister for Finance under the provisions of the Cork Tramways (Employees' Compensation) Act, 1933		1,589 0 6	1,589
,, Balance, carried to Net Revenue Account		248,939 13 9	145,287
		£250,528 14 3	£146,876

No. 4A.
Dr.

ELECTRICITY NET REVENUE ACCOUNT

	£ s. d.	Year 1945/46 £
To Balance, carried down	265,129 10 11	152,017
	£265,129 10 11	£152,017
To Balance, brought forward from last year's account ...	387,522 3 4	539,539
	£387,522 3 4	£539,539
To Balance, brought down	£122,392 12 5	

FOR THE YEAR ENDED 31st MARCH, 1947

Cr.

		Year 1945/46
	£ s. d.	£
By Balance transferred from Revenue Account	1,255,855 13 11	1,128,243
„ Loan-stock sinking funds' investment income	6,994 6 7	6,206
„ Interest receivable	4,800 19 3	1,669
	£1,267,650 19 9	£1136118
„ Balance, brought down	250,528 14 3	146,876
	£250,528 14 3	£146,876

FOR THE YEAR ENDED 31st MARCH, 1947.

Cr.

			Year 1945/46
	£ s. d.	£ s. d.	£
By Balance transferred from Profit and Loss Account		248,939 13 9	145,287
„ Installations trading profit	4,808 3 0		
„ Merchandise trading profit	11,381 14 2		
		16,189 17 2	6,730
		£265,129 10 11	£152,017
By Balance brought down		265,129 10 11	152,017
„ Balance, carried down		122,392 12 5	387,522
		£387,522 3 4	£539,539

No. 5. **ELECTRICITY CAPITAL ACCOUNT FOR**

Dr.

	Total to 31st March, 1946 less— amounts written off	Expenditure during year to 31st March, 1947 less— amounts written off	Total to 31st March, 1947 less— amounts written off
	£ s. d.	£ s. d.	£ s. d.
To GENERATION : physical assets ...	7,564,074 17 4	112,383 13 6	7,676,458 10 10
„ TRANSMISSION : physical assets ...	3,738,390 7 4	101,603 11 6	3,839,993 18 10
„ DISTRIBUTION : (*a*) physical assets ...	4,464,692 17 1	139,041 14 2	4,603,734 11 3
(*b*) other capital expenditure	591,313 2 6	(—) 7,361 6 5	583,951 16 1
„ GENERAL : (*a*) physical assets ...	382,218 5 5	51,294 17 3	433,513 2 8
(*b*) other capital expenditure	308,195 0 0	(—) 253 10 6	307,941 9 6
	£17,048,884 9 8	£396,708 19 6	17,445,593 9 2
„ NON-CLASSIFIED EXPENDITURE : New works in progress			1,253,894 18 0
		TOTAL ...	18,699,488 7 2
			£18,699,488 7 2

Cr.

	Total Receipts to 31st March, 1946 less— redemptions	Receipts during year to 31st March, 1947 less— redemptions	Total Receipts to 31st March, 1947 less— redemptions
	£ s. d.	£ s. d.	£ s. d.
By Local Authority Undertakings :			
Loans and loan-stocks	54,059 8 4	(—) 4,241 12 3	49,817 16 1
„ Minister for Finance :			
Advances under the Electricity (Supply) Acts and the Liffey Reservoir Act, and in respect of advances to the Shannon Power Development Fund as determined under section 15 of the Electricity (Supply) Act, 1927 ...	12,947,522 8 6	285,952 11 1	13,233,474 19 7
Total ...	£13,001,581 16 10	£281,710 18 10	13,283,292 15 8
By Balance			5,416,195 11 6
			£18,699,488 7 2

No. 6.
Dr.

ELECTRICITY BALANCE SHEET

LIABILITIES.	£ s. d.	£ s. d.	31/3/1946 £
To Receipts, as per Capital Account		13,283,292 15 8	13,001,582
„ Sundry Creditors		590,694 8 7	504,060
„ Loans under the Electricity Supply Board (Superannuation) Act, 1942 from the Trustees of			
General Employees Superannuation Fund	204,100 0 0		
Manual Workers Superannuation Fund	180,300 0 0		
		384,400 0 0	276,500
„ Non-Repayable moiety of advance for the electrification of rural areas made by the Minister for Finance under section 41 of the Electricity (Supply) (Amendment) Act, 1945		25,000 0 0	—
„ Amount reserved in respect of sinking funds for loan-stocks of acquired undertakings		24,644 16 4	10,851
„ 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		6,618,278 12 7	5,914,095
„ 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	29,085 5 4		
		106,982 19 8	105,504
		£21,303,590 18 2	£20,082,889

AS AT 31st MARCH, 1947.

Cr.

ASSETS.			31/3/1946
	£ s. d.	£ s. d.	£
By Capital Assets, as per Capital Account		18,699,488 7 2	17,587,180
„ Stocks on Hand and in Transit		1,018,280 10 10	878,620
„ Cost Value of Installations Work and Sales for which Credit has not been taken		74,692 18 8	41,029
„ Sundry Debtors, after providing for bad and doubtful debts		978,903 14 6	674,323
„ Shannon Fisheries, temporary advances		29,964 16 8	18,079
„ Cash in Hand and with Banks		355,223 1 7	485,285
„ Sinking Funds (held by local authorities) for loan-stocks :			
Investments (at cost) ...	10,850 11 10		
Cash not invested ...	13,794 4 6		
		24,644 16 4	10,851
„ Deficiency, as per Net Revenue Account ...		122,392 12 5	387,522
		£21,303,590 18 2	£20,082,889

No. 7.
Dr.

SHANNON FISHERIES TRADING ACCOUNT

	£ s. d.	Year 1945/46 £
To Operation, maintenance and repair	5,733 3 0	5,769
„ Cost of fish purchased	88 9 10	140
„ Fishery rates	3,551 17 6	3,452
„ General management and overhead expenses	1,483 8 6	1,540
„ Transfer to depreciation reserve	1,004 0 0	776
	£11,860 18 10	£11,677

No. 8.
Dr.

SHANNON FISHERIES PROFIT AND LOSS ACCOUNT

	£ s. d.	£ s. d.	Year 1945/46 £
To Balance, brought from Trading Account		2,580 10 10	3,159
„ Interest:			
Payable to the Minister for Finance ...	8,700 12 8		
Apportioned in respect of temporary advances from Electricity Funds ...	500 0 0		
Other interest	39 0 0		
		9,239 12 8	8,959
„ Reserve, being amount of capital repaid in respect of advances from Minister for Finance		1,200 17 9	1,143
		£13,021 1 3	£13,261
To Balance, brought down		13,021 1 3	13,261
To Balance, brought forward from last year's account ...		50,077 10 6	36,816
		£63,098 11 9	£50,077
To Balance, brought down		£63,098 11 9	

FOR THE YEAR ENDED 31st MARCH, 1947.

Cr.

	£ s. d.	Year 1945/46 £
By Sales of fish, letting of fishing rights and miscellaneous receipts	9,280 8 0	8,518
,, Balance, carried to Profit and Loss Account	2,580 10 10	3,159
	£11,860 18 10	£11,677

FOR THE YEAR ENDED 31st MARCH, 1947.

Cr.

	£ s. d.	Year 1945/46 £
By Balance, carried down	13,021 1 3	13,261
	£13,021 1 3	£13,261
By Balance, carried down	63,098 11 9	50,077
	£63,098 11 9	£50,077

No. 9.
Dr.

SHANNON FISHERIES CAPITAL ACCOUNT

	Total to 31st March, 1946	Expenditure during year to 31st March, 1947	Total to 31st March, 1947
	£ s. d.	£ s. d.	£ s. d.
To Fishery rights and fisheries ...	93,352 2 2	—	93,352 2 2
„ Works to preserve fisheries ...	33,337 13 2	—	33,337 13 2
„ Other capital expenditure ...	21,090 14 0	—	21,090 14 0
	£147,780 9 4	—	147,780 9 4
„ Non-classified expenditure : New works in progress ...			7 18 1
			147,788 7 5
„ Balance			25,620 3 10
			£173,408 11 3

No. 10.
Dr.

SHANNON FISHERIES BALANCE SHEET

LIABILITIES.		31/3/1946
	£ s. d.	£
To Receipts, as per Capital Acccount	173,408 11 3	174,609
„ Electricity Funds, temporary advances	29,964 16 8	18,079
„ Amount reserved in respect of capital loans repaid and for depreciation and retirement of assets	8,410 8 9	6,166
	£211,783 16 8	£198,854

FOR THE YEAR ENDED 31st MARCH, 1947.

Cr.

	Total Receipts to 31st March, 1946 less redemptions	Redemptions during year to 31st March, 1947	Total Receipts to 31st March, 1947 less redemptions
	£ s. d.	£ s. d.	£ s. d.
By Minister for Finance :			
Advances under the Shannon Fisheries Act, 1935	174,609 9 0	1,200 17 9	173,408 11 3
			£173,408 11 3

AS AT 31st MARCH, 1947.

Cr.

ASSETS.		31/3/1946
	£ s. d.	£
By Capital assets, as per Capital Account	147,788 7 5	147,780
„ Stock of material	682 11 3	928
„ Sundry debtors	157 13 11	66
„ Cash in hand and with Bank	56 12 4	3
„ Deficiency, as per Profit and Loss Account	63,098 11 9	50,077
	£211,783 16 8	£198,854

			Total Receipts to 31st March, 1947
UNDER ELECTRICITY ACTS.			
Local Authority Undertakings :			£ s. d.
Loans and loan-stocks			740,955 7 5
Liability under section 39 (7) of the Electricity (Supply) Act, 1927			15,065 16 10
Minister for Finance :			
Advances—			
under the Electricity (Supply) Act, 1927—	£ s. d.		
section 12 (2)	156,000 0 0		
section 12 (3)	1,903,688 6 1		
under the Electricity (Supply) (Amendment) Acts, 1931 to 1945, and the Liffey Reservoir Act, 1936 ...	5,729,881 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		13,819,635 18 3
			£14,575,657 2 6
UNDER SHANNON FISHERIES ACTS.			
Minister for Finance :			
Advances—			
under the Shannon Fisheries Act, 1935			180,000 0 0
			£14,755,657 2 6

REDEMPTION THEREOF TO THE 31st MARCH, 1947.

Redeemed			Balance of Capital Receipts Outstanding at 31st March, 1947
Total to 31st March, 1946	During year to 31st March, 1947	Total to 31st March, 1947	
£ s. d.	£ s. d.	£ s. d.	£ s. d.
686,895 19 1	4,241 12 3	691,137 11 4	49,817 16 1
15,065 16 10	—	15,065 16 10	—
497,113 9 9	89,047 8 11	586,160 18 8	13,233,474 19 7
£1,199,075 5 8	£93,289 1 2	£1,292,364 6 10	£13,283,292 15 8
5,390 11 0	1,200 17 9	6,591 8 9	173,408 11 3
£1,204,465 16 8	£94,489 18 11	£1,298,955 15 7	£13,456,701 6 11

No. 12. **GENERAL BALANCE SHEET**

Dr.

LIABILITIES.	£ s. d.	£ s. d.	31/3/1946 £
To Receipts:			
per Electricity Capital Account	13,283,292 15 8		
per Shannon Fisheries Capital Account	173,408 11 3		
		13,456,701 6 11	13,176,191
„ Sundry Creditors		590,694 8 7	504,060
„ Loans under the Electricity Supply Board (Superannuation) Act, 1942 from the Trustees of			
General Employees Superannuation Fund	£ s. d. 204,100 0 0		
Manual Workers Superannuation Fund	180,300 0 0		
		384,400 0 0	276,500
„ Non-Repayable moiety of advance for the electrification of rural areas made by the Minister for Finance under section 41 of the Electricity (Supply) (Amendment) Act, 1945		25,000 0 0	—-
, Amount reserved in respect of sinking funds for loan-stocks of acquired undertakings		24,644 16 4	10,851
„ 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		6,626,689 1 4	5,920,262
„ Capital Assets Adjustment Reserve representing surplus arising from re-valuation ...		270,297 5 4	270,297
„ Reserves: Amount provided by acquired undertakings...	£ s. d. 77,897 14 4		
Other reserves and provisions	29,085 5 4		
		106,982 19 8	105,504
		£21,485,409 18 2	£20,263,665

R. F. BROWNE, *Chairman.*

PATRICK J. DEMPSEY, *Secretary.*

AS AT 31st MARCH, 1947.

Cr.

ASSETS.	£ s. d.	£ s. d.	31/3/1946
By Capital Assets:			£
per Electricity Capital Account	... 18,699,488 7 2		
per Shannon Fisheries Capital Account	147,788 7 5		
		18,847,276 14 7	17,734,960
„ Stocks on Hand and in Transit		1,018,963 2 1	879,548
„ Cost Value of Installations Work and Sales for which Credit has not been taken ...		74,692 18 8	41,029
„ Sundry Debtors, after providing for bad and doubtful debts		979,061 8 5	674,389
„ Cash in Hand and with Banks		355,279 13 11	485,288
„ Sinking Funds (held by local authorities) for loan-stocks:	£ s. d.		
Investments (at cost) ...	10,850 11 10		
Cash not invested ...	13,794 4 6		
		24,644 16 4	10,851
„ Deficiency:	£ s. d.		
per Electricity Net Revenue Account	122,392 12 5		
per Shannon Fisheries Profit and Loss Account ...	63,098 11 9		
		185,491 4 2	437,600
		£21,485,409 18 2	£20,263,665

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, 1947, exhibits a true and correct view of the state of the Board's affairs according to the best of our information and the explanations given to us, and as shown by the books of the Board.

Overhead expenses are charged in the foregoing accounts in accordance with the estimated allocations made by the Board's Officials and approved by the Board :

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

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

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

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

KENNEDY, CROWLEY & CO.,
Auditors.

4 and 5 WESTMORELAND STREET,
DUBLIN, 1*st July*, 1947.

Alex. Thom & Co., Ltd