1936.

VICTORIA.

STATE ELECTRICITY COMMISSION OF VICTORIA.

SEVENTEENTH ANNUAL REPORT

COVERING THE

FINANCIAL YEAR ENDED 30TH JUNE, 1936,

TOGETHER WITH

APPENDICES.

PRESENTED TO PARLIAMENT PURSUANT TO SECTION 35 (*b*) OF STATE ELECTRICITY COMMISSION ACT No. 3776.

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SEVENTEENTH ANNUAL REPORT.

The Honorable F. E. Old, M.L.A.,
Minister in Charge of Electrical Undertakings,
Melbourne.

SIR—

In conformity with the provisions of Section 35 (*b*) of the State Electricity Commission Act (No. 3776), we have the honour to present the Seventeenth Annual Report of the Commission, covering the financial year ended the 30th June, 1936, with Balance-sheet and Profit and Loss Account for the period.

PART I.—ADMINISTRATION.

MAJOR EXTENSION—MAIN SYSTEM.

Although at the date of the Commission's Sixteenth Annual Report it was expected that, in pursuing the extension of the Yallourn Power Station to its completion, the use of extra high pressure steam plant would prove economical, tenders for the additional plant received during the financial year disclosed an upward price movement in respect of this class of plant so considerable as to deprive the proposals of the necessary economic advantage. At the date mentioned, six of the ten boilers authorized by Parliament in 1928, as part of the extension of the Yallourn Power Station, remained to be installed. It was decided, as a result of the unfavorable nature of the tenders received, to complete the boiler plant in accordance with the earlier plans, and to operate it at the existing designed pressure. Almost all of the plant required for the completion of the extended boiler house has been ordered, and the erection of the boilers is proceeding.

With regard to turbine plant, the plan approved in 1928 made provision for three 25,000 kw. turbo-alternators in the extended Yallourn Power Station. As announced in the Commission's Sixteenth Annual Report, an additional (fourth) 25,000 kw. turbo-alternator is to be installed.

Contracts were let during the year for the third and fourth turbo-alternator sets, the former of which will be in service towards the end of 1937, and the latter before the winter loading of 1939. This increase of plant is essential to meet the estimated demand on the Commission's main system up to the winter of 1940.

To secure the transmission facilities necessary for dealing with the increased output from the Yallourn Power Station, it has been necessary to prepare for the erection of another circuit on the Yallourn to Richmond 132 kv. transmission line, work upon which will begin early in 1937. A contract for the steel reinforced aluminium conductor for this circuit has been placed.

Expenditure during the year on the Yallourn Power Station extensions, as approved in 1928, amounted to £75,832, bringing the total expenditure to date on the extensions up to £1,390,239.

The heavy and sustained growth of loading on the Commission's main system has made it necessary to give close attention to the question of provision for a major installation of plant for future needs, and a number of alternative proposals has been closely examined, including that of a hydro-electric scheme in the mountain country close to Mount Bogong, on the Kiewa River. The latter proposal has been under investigation for a considerable number of years, and is now being completed. It contains certain special features designed to meet conditions in country subject to heavy snowfall, such as long tunnels in rock for the conveyance of water to the pipeheads of the various power stations, and the construction of power stations underground. These features, from an engineering point of view, are entirely new to Australian practice, although not uncommon in other parts of the world.

In this connexion the Commission has arranged for an inspection and report by two eminent engineers, representing the firm of Vattenbyggnadsbryan (VBB), reporting in conjunction with Messrs. Rendel, Palmer, and Tritton of Westminster, London, who possess

expert knowledge and experience in this special class of work. They are due to arrive in Melbourne in October, and will make themselves familiar with the conditions of the Kiewa catchment during November and December.

In connexion with the question of providing for future requirements, attention has been directed to ensuring still greater reliability in coal-winning operations, and to this end tenders have been called for an additional coal dredger. Final decision in this matter will depend greatly on the nature of the offers received, both as to type of plant and purchase price, and, if conditions are unfavorable, it may prove necessary to defer the purchase until they improve.

Similarly, attention is being directed to plant for overburden removal and disposal. For more than eight years this operation has depended on a single unit of plant, of the dredger type, for the excavation work. The large increase in coal output in recent years has overtaken the capacity of this machine, and measures to supplement or replace it will have to be taken in the near future. The time is imminent when the method of disposal by stacking at ground level can be superseded by returning the spoil to the open cut, which is rapidly reaching the stage when this can be done.

HEAD OFFICE BUILDING.

Extra accommodation is urgently required for the proper performance of its work, which is being carried on under congested and unfavorable conditions, and the Commission, therefore, decided to add two stories to its Head Office building, 22–32 William-street. With the additions, the height of the building will reach the limit allowed by the Melbourne City Council's regulations. As provision was made in the original design for the extra floors, the alterations to the existing structure involved are comparatively small, and are not interfering to any appreciable extent with the occupation of the premises or the orderly conduct of business. The new work is of reinforced concrete, in keeping with the original construction.

DEMAND FOR ELECTRICAL ENERGY WITHIN RANGE OF THE STATE POWER SYSTEM AS AT PRESENT DEVELOPED.

The increase in the metropolitan loading, noted in last year's report, has been well sustained during the year. A typical winter daily load curve is shown in Graph No. 1.

Graph No. 2 illustrates the maximum load on each station of the Commission's system during the last nine years. As the only addition to generating plant for several years has been at Yallourn, this station alone shows a progressively increasing load. There the maximum demand was 99,000 kilowatts, or 14,000 kilowatts above that for the previous year. The total system demand, excluding that at Ballarat, Bendigo, and Geelong, was 147,900 kilowatts, or 15,900 kilowatts above the previous year's figure, an increase of 12 per cent.

Graph No. 3 shows the growth in the demand for electricity in Victoria since 1918–19, and the manner in which this growth has been met, particularly by the State Power System, which now supplies the great bulk of the requirements.

Graph No. 4 shows the coincident maximum demand on the Commission's main system, the kilowatt-hours generated, and the resulting load factor.

Appendices Nos. 2 and 3 give details of the length of overhead lines erected and cables laid, and the number of sub-stations erected to date in the Commission's system.

Appendix No. 4 shows the contributions from all supply sources to the total energy used in the metropolitan area.

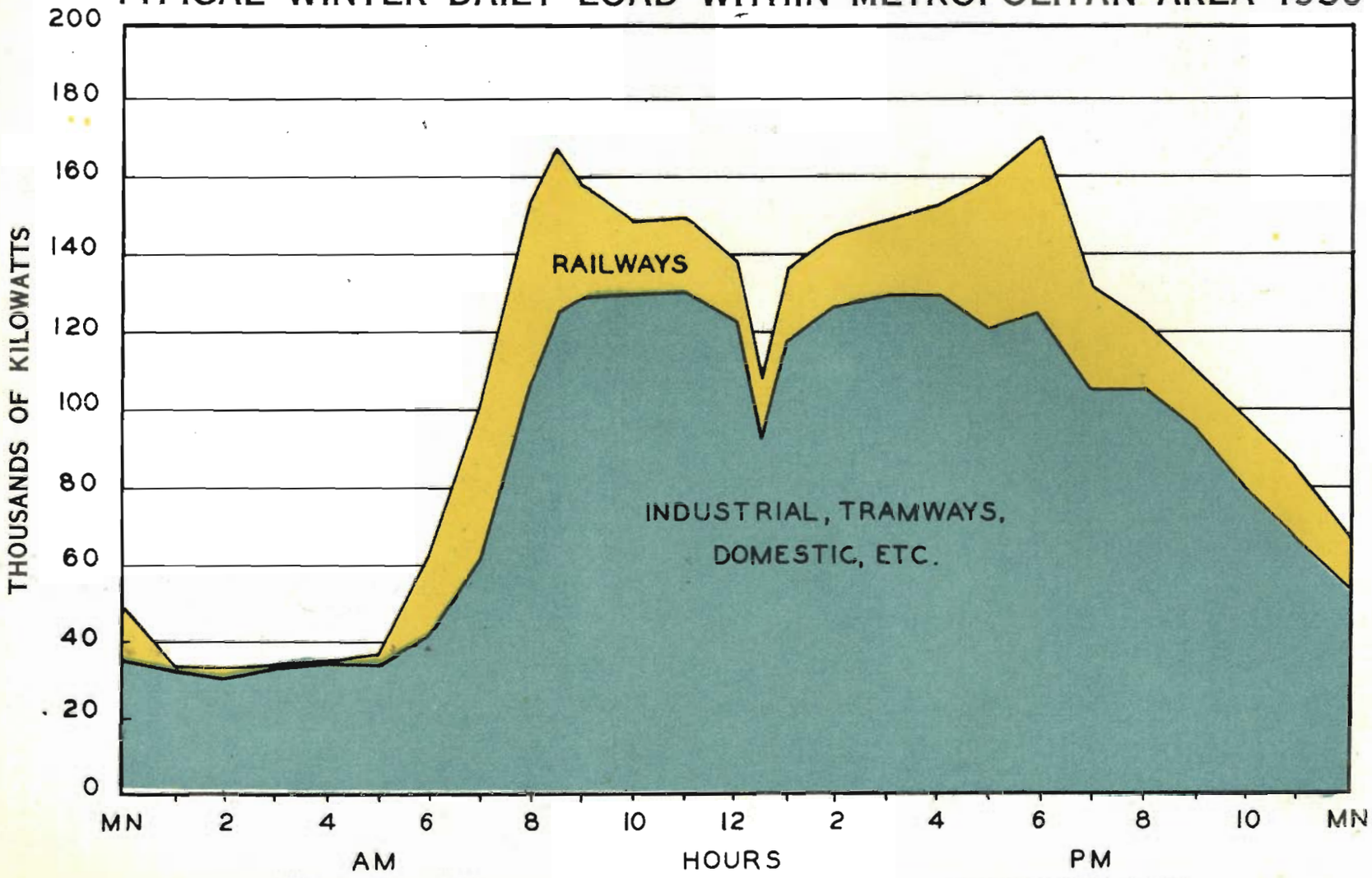
Distribution of Electricity.—In addition to the City of Melbourne, the following undertakings in the metropolitan area are supplied by the Commission in bulk:—The City Councils of Box Hill, Brunswick, Coburg, Footscray, Heidelberg, Northcote, Port Melbourne, Preston, and Williamstown. The local distribution of electricity is undertaken by the Commission in the following metropolitan municipalities:—Braybrook (Sunshine), Brighton, Camberwell, Caulfield, Collingwood, Essendon, Fitzroy, Hawthorn, Kew, Malvern, Melbourne (Flemington), Moorabbin, Mordialloc, Oakleigh, Prahran, Richmond, St. Kilda, Sandringham, and South Melbourne. Bulk supply is also given to the outer metropolitan municipality of Doncaster, to the municipal councils of Albury, Corowa, and Moama, in New South Wales, and to the Carrum Electric Supply Company, who supply Aspendale, Carrum, and Chelsea, and whose undertaking will become vested in the Commission on the 13th May, 1937, from which date, until the 13th May, 1944 (when it will be fully administered by the Commission), it will be managed by the Company on the Commission's behalf.

Country extensions of supply made during the year are shown in Part II. of this Report.

The total number of centres now supplied by the State Power System is 250, of which 183 did not previously enjoy the benefits of electricity supply.

STATE OF VICTORIA

TYPICAL WINTER DAILY LOAD WITHIN METROPOLITAN AREA 1936

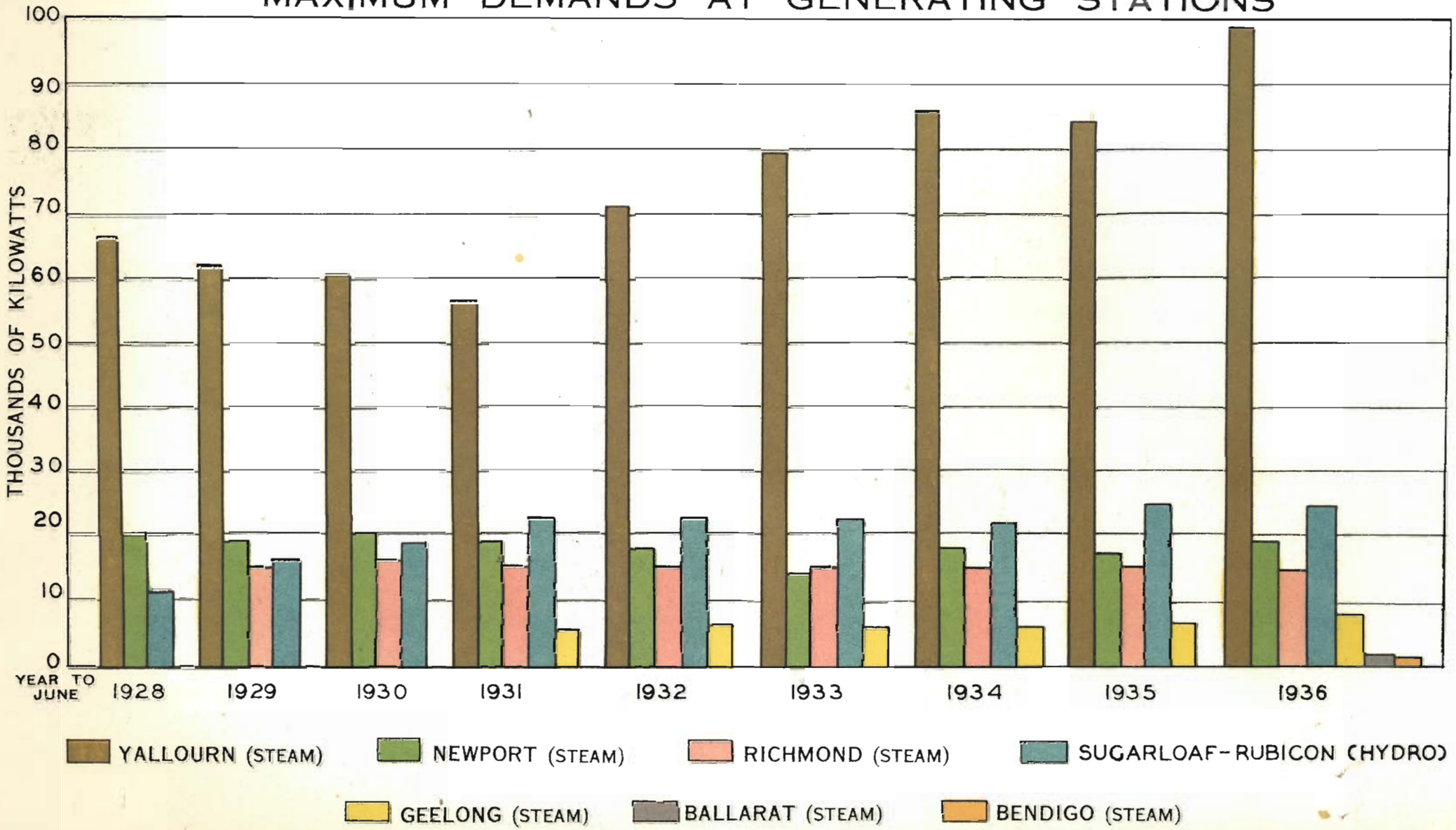


The portion of the graph coloured yellow represents the energy generated by the Victorian Railways Commissioners at their Newport "A" Station.

GRAPH No. 1

STATE POWER SYSTEM

MAXIMUM DEMANDS AT GENERATING STATIONS

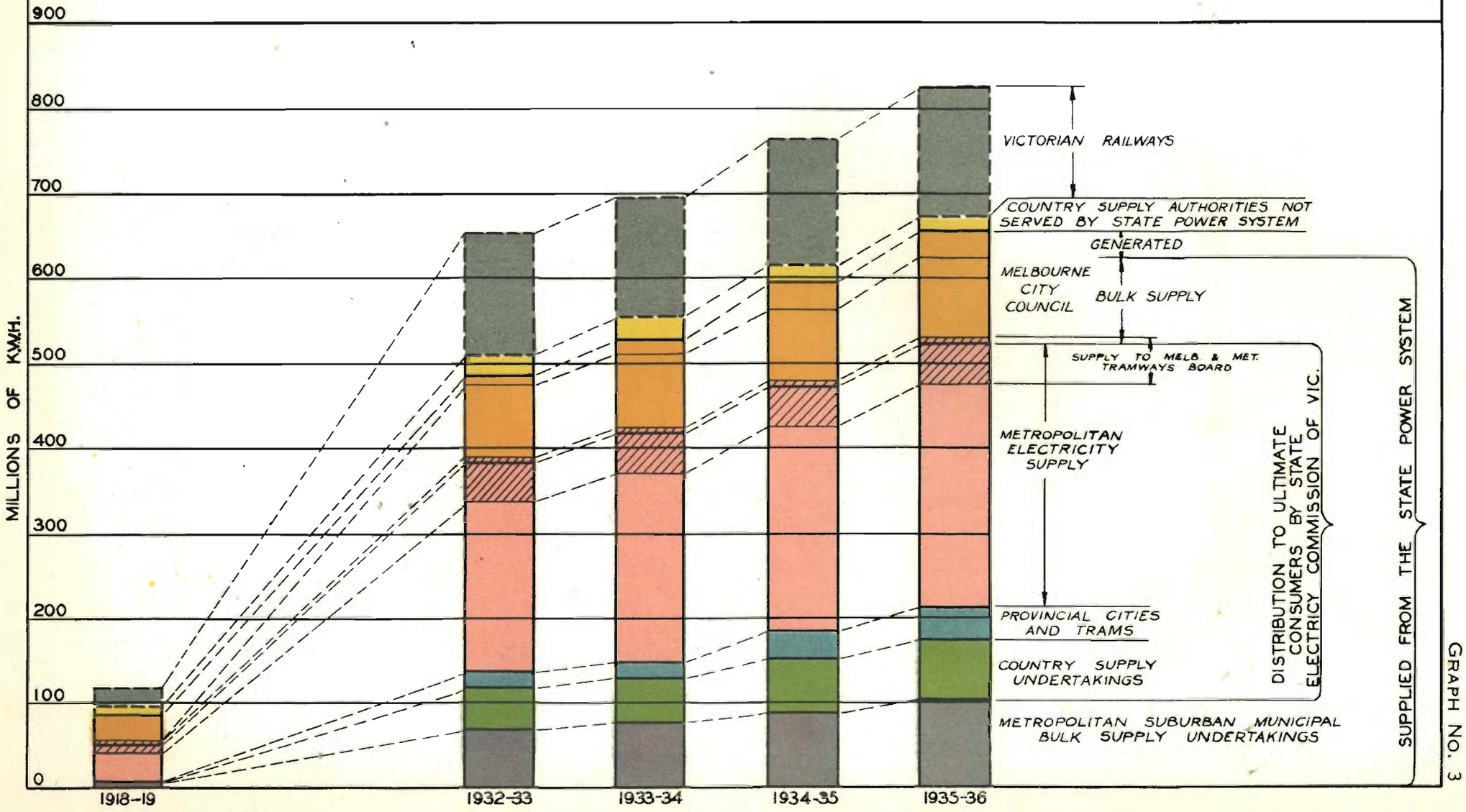


GRAPH NO. 2

STATE OF VICTORIA

SUPPLY AND DISTRIBUTION OF ELECTRICITY BY VARIOUS AUTHORITIES

1919-1936

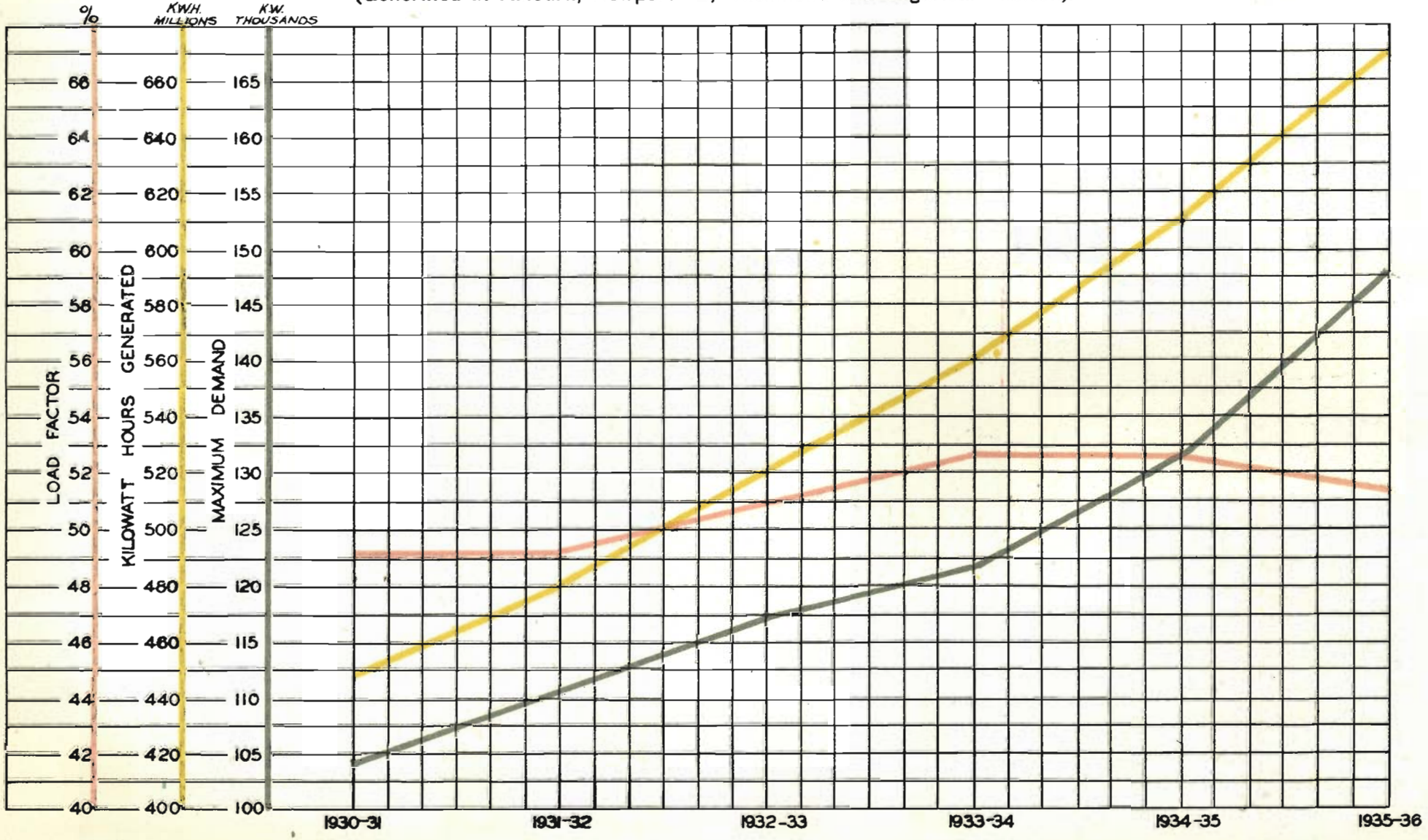


GRAPH NO. 3

STATE ELECTRICITY COMMISSION OF VICTORIA

ENERGY GENERATED FOR MAIN SYSTEM

(Generated at Yallourn, Newport "B," Richmond and Sugarloaf-Rubicon).



GRAPH NO. 4

TOWN OF YALLOURN.

Housing.—The number of new houses, either erected or in course of erection, during the year was eighteen, which will bring the total number of dwellings of all types in the town to 589.

The erection of 40 additional houses has been approved, and will enable most of the outstanding applications to be met.

The total population figure of the Yallourn territory at the 30th June, was 3,596.

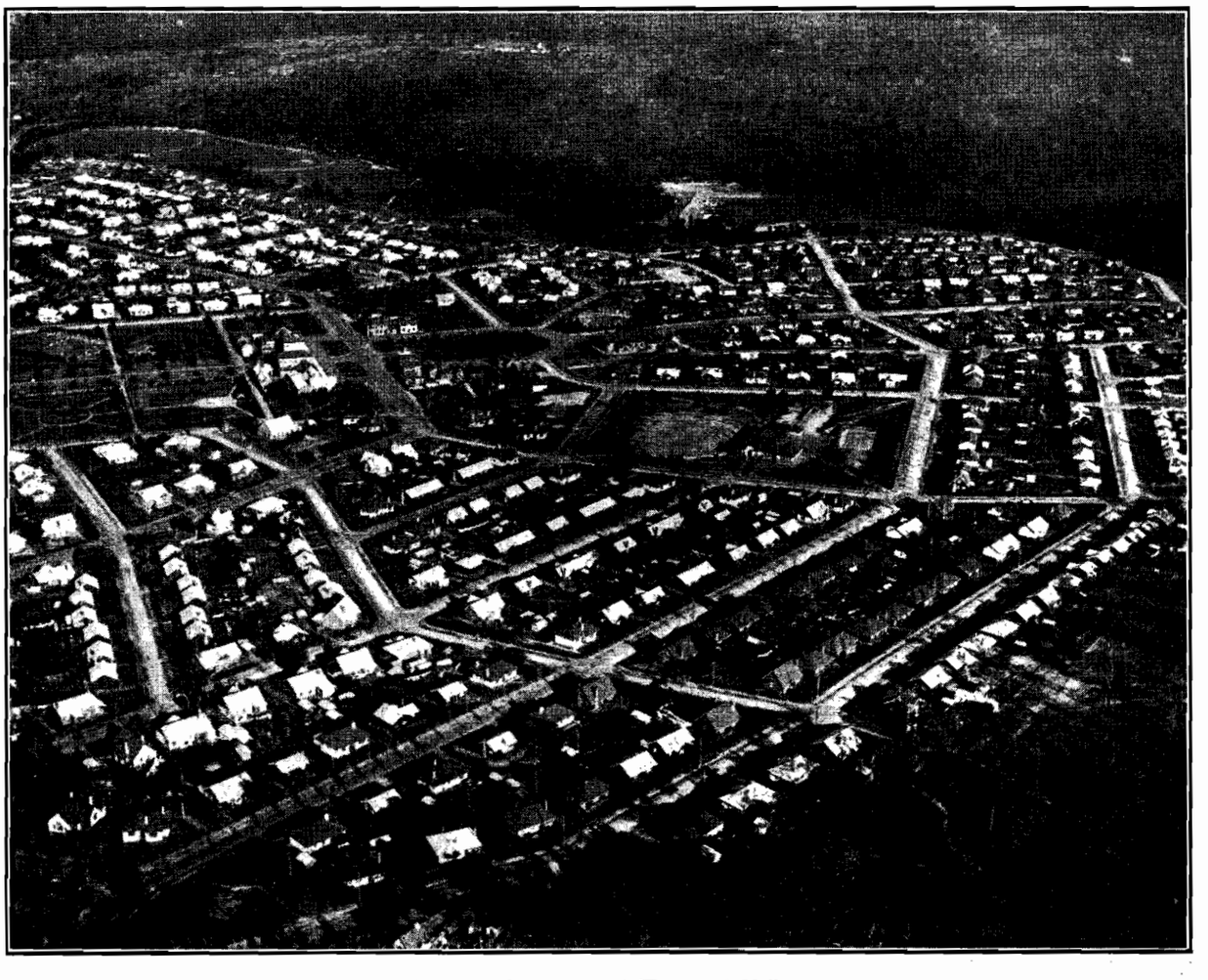
The population of settlements adjacent to the Commission's works totals 753.

Visitors to Yallourn.—During the year 8,213 visitors, including 2,874 school children, were guided over the town and works.

Hospital.—The hospital and general medical services (including the Health Centre) administered by the Medical and Hospital Society, and financed by regular weekly contributions from all employees in the territory, continue to be maintained at a high level of efficiency, and the keen interest of the residents in the welfare and appearance of the hospital and its grounds shows no signs of diminution. The institution had another busy year, the daily average of occupied beds being 24·6, a slight increase on the previous year's figure.

School Facilities.—The new Technical School, erected by the Public Works Department for the Department of Public Instruction, at a cost of £10,500, towards which the Commission contributed £2,000, was opened on the 13th May by the Minister of Public Instruction (the Honorable Dr. J. R. Harris, M.L.C.), in the presence of a large gathering, which included the Minister in Charge of Electrical Undertakings (the Honorable F. E. Old, M.L.A.), and Parliamentary representatives. The building fills a long and keenly-felt want, but it has still to be properly furnished and equipped. Until this very necessary provision is made, conditions will be difficult for both teachers and students.

The amount received in fees at Yallourn last year was higher than that for any other technical school in Victoria.



Aerial View of portion of Town of Yallourn.

INDUSTRIAL.

Disposition of Commission's labour forces at 30th June, 1936 :—

	Operation.	Construction.
Power Generation	298	33
Main Transmission Lines, Terminal Stations, &c...	186	180
Metropolitan Electricity Supply (Distribution) ..	337	96
Country Electricity Supply	309	77
Briquette Production and Distribution	303	7
Coal-winning, Yallourn	459	Nil
General Services and Workshops, Yallourn ..	369	91
General Services and Workshops—elsewhere ..	510	59
Tramways—Geelong, Ballarat, and Bendigo ..	194	90
Flood Works—Yallourn	60	Nil
Total	3,025	633

Grand Total—3,658.

Various alterations in basic rates added £8,500 to the year's expenditure of the Commission, following on an increase of £17,000 in 1934–35.

ELECTRIC LIGHT AND POWER ACT 1928.

Since the passing of the *Electric Light and Power Act* 1896, 226 Orders in Council have been granted. Of these, 123 have been issued to municipal councils and 103 to companies or persons. Eighty-nine Orders have been revoked, including a number relating to undertakings which have passed into the control of the Commission. At the close of the financial year 137 orders remained in force.

During the year, Orders in Council for the supply of electricity were recommended by the Commission and approved by the Governor in Council as under :—

Number.	Undertaker.	Area.	Tariff.			System of Supply.
			Light.	Power.	Minimum Charge per Month.	
228	Lamplough Gold Mining Co. Ltd.	Allotments Nos. 16 and 88, Shire of Avoca	Supply for mining purposes only			
			s. d.	*s. d.*	*s. d.*	
229	Hamilton Electric Supply Co. Ltd.	Town of Hamilton ..	0 7	0 5	3 0	A.C. 230/400 volt

Order No 229 was issued in substitution for a previous Order in respect of an area already supplied with electricity.

In the exercise of the Commission's administrative functions under the Act, 37 electrical undertakings were inspected and reported on during the year, in addition to special inspections of newly-installed generating plant and a number of investigations into complaints of unsatisfactory pressure regulation.

LICENSING OF ELECTRICAL MECHANICS.

The following list shows the number of licences renewed and issued during the year :—

Grade.	Electrical Mechanics' Licences Renewed up to the 30th June, 1936.	New Electrical Mechanics' Licences Issued up to the 30th June, 1936.	Total Electrical Mechanics' Licences in Force at 30th June, 1936.
"A"	1,520	59	1,579
"B1" . .	107	3	110
"B" .. .	553	25	578
"C"	125	103	228

In addition to the above, 291 permits to engage in electrical wiring work under certain conditions, and limited in each case to six months, were issued during the year, at the close of which 154 were in force.

During the year, two examinations in theory and practice were held. The Board of Examiners reported an increase in the number of candidates who attended There was a decrease in the percentage of candidates who passed these examinations.

REGISTRATION OF ELECTRICAL CONTRACTORS.

The *State Electricity Commission Act* 1934 vests in the Commission certain powers and responsibilities with respect to the registration of electrical contractors. Regulations, as recommended by the Commission, were approved by the Governor in Council under section 6 of the above Act on 26th May, 1936. The regulations, which became operative as from 1st June, 1936, provide for the registration of electrical contractors under two classes, " M " Metropolitan, " P " Provincial. Under class " M " a contractor may undertake electrical wiring contracts of any kind whatsoever. Registration under class " P " entitles a contractor to operate only in provincial districts where the maximum declared pressure of supply does not exceed 250 volts.

The Commission may cancel, suspend, or refuse to renew registration on the grounds of false declaration or misrepresentation, cessation of business operations at a registered address, bankruptcy, insanity, non-observance of the essential provisions of the regulations and breach of the Wiring Regulations.

The regulations, in addition to setting out the procedure in connexion with applications for registration and the manner in which the qualifying electrical mechanics' licence is to be held, deal, inter alia, with cancellations, suspensions, restorations, renewals, fees, issue of certificates, exemptions under paragraph (*c*) of sub-section (1) of section 3 of the Act and pecuniary penalties for non-observance.

The minimum fee payable on registration by any contractor is £2, with increments calculated on the basis of the number of electrical mechanics employed. Renewal fees are approximately half the original registration fees.

Up to the 30th June, 1936, a total of 179 class " M " and one class " P " electrical contractors had been registered.

APPROVAL OF ELECTRICAL APPLIANCES AND EQUIPMENT.

The Electrical Approvals Board constituted under the *State Electricity Commission Act* 1934 functioned continuously throughout the year. Under the constitution of the Board, it is provided that in rotation two members shall retire each year. Mr. W. H. Stock, representing the Fire Underwriters' Association, and Mr. A. W. Henderson, representing workers in the electrical trade, were the first to retire under this arrangement, and they were re-appointed to the Board for a period of three years from 1st July, 1936.

Two further groups of equipment were brought within the scope of section 7 of the Act. Portable immersion heaters were prescribed on 20th November, 1935, and kettles and saucepans and decorative lighting outfits on 18th February, 1936. Restrictions in respect of non-approved articles in these groups operate from 31st March, 1936, and 30th September, 1936, respectively. The list of articles brought within the scope of the Act up to the 30th June, 1936, includes, in addition to those abovementioned, lampholder adaptors, plugs and sockets, plug-socket adaptors, apparatus connectors, cord connectors, flexible cords, bread toasters, grillers and hand-lamps.

Up to the 30th June, 1936, 309 applications for approval were received, and of this number approval was granted in the case of 168 applications.

Installations.—The instruction of Supply Authorities' installation inspectors in the uniform application of the Wiring Regulations was continued throughout the year, 2,750 check inspections being made in the metropolitan area and country districts. A large quantity of apparatus was examined while under construction in factories prior to its despatch for connexion in installations, and there were re-inspections of old installations in several country towns.

EARTH LEAKAGE PROTECTION.

In order to ensure safety in the use of electricity, it is necessary that exposed metal parts of electrical installations, equipment and appliances be connected to earth in a manner which will provide for the safe discharge of any leakage current.

Until recently, this has been effected in urban areas by the connexion of such exposed metal to the underground piping systems of the water supply authorities. Extensive use of non-conductive cement piping has been made in the metropolitan area in the past few years, and this use is rapidly increasing. The use of this piping is also extending to provincial towns

Moreover, the Melbourne and Metropolitan Board of Works has recently required the use of insulating joints in water service pipes, and there are indications that this practice will extend to Bendigo, Ballarat and Geelong. These innovations are resulting in the progressive destruction of the earthing function of water piping, and, as alternative earth connexions are difficult and expensive, if not impossible to obtain, and are subject to such seasonal and other variations that they cannot be relied upon at all times for the degree of conductivity necessary for the safe discharge of leakage current, the complete disconnexion of the installation or defective section of the installation from the supply mains in the event of leakage has become necessary.

With the extension of electricity supply to country districts, where there are no water reticulation systems and where driven pipes and buried plates have proved ineffective as earthing connexions, it became necessary about three years ago, in the absence of any proved alternative, to introduce an earthing system known as the multiple earthed neutral system, which, although it provides a greater degree of safety than can be obtained solely by reliance on earthing pipes or plates, has inherent disadvantages in that safety depends entirely on the neutral conductor remaining intact, the conditions becoming dangerous in the event of interruption to this conductor. Data collected over an extended period have shown that the incidence of these interruptions, even with the Commission's high standard of maintenance, is sufficient to warrant discontinuance of the system in favour of any proven alternative method of protection.

Two years ago the Commission realized that the position, both in the metropolitan area and in the country, was developing in a manner which would necessitate considerable changes in protective practice; therefore, it set up an expert committee to investigate and advise in this connexion. This Committee, after careful consideration of the matter, during which period it conferred with authorities in other States, followed developments in Europe, and analysed data collected within Victoria, could find no practical alternative to the adoption of earth leakage switches, as developed to meet corresponding problems in Germany, and adopted under the British Wiring Regulations for the protection of installations where similar conditions obtain.

The Commission then felt it necessary to take immediate steps to deal with the situation which, in the meantime, had become urgent, particularly on account of the introduction of insulating joints in water service pipes by the Melbourne and Metropolitan Board of Works in March last. Regulations to give effect to the Committee's findings were accordingly prepared.

These Regulations, which provide for the inclusion of an earth leakage safety switch or switches in every new residential installation and detail the requirements of such switches and the manner of their installation, were approved by the Governor in Council on 5th May, 1936, and became operative as from 1st June, 1936.

As soon as the preliminary difficulties standing in the way of their application to other types of installations have been overcome, the scope of the regulations will, as may be necessary, be extended to cover all new installations, and since the same need of protection exists in the case of existing installations, it will also be necessary to apply the regulations, first to certain groups and later to all existing installations.

ELECTROLYSIS—METROPOLITAN AREA.

The Electrolysis Committee, consisting of representatives of:—

The Postmaster-General's Department,
The Victorian Railways Commissioners,
The Melbourne and Metropolitan Board of Works,
The Melbourne and Metropolitan Tramways Board,
The Melbourne City Council,
The Metropolitan Gas Company, and
The State Electricity Commission of Victoria—

has, through the Electrolysis Research Engineer, operating in conjunction with its Technical Sub-Committee, continued during the year the investigation of the electrolysis conditions in the metropolitan area, both as regards damage alleged to have been caused by electrolytic corrosion and as regards conditions favorable to such corrosion. The Sub-Committee has continued to recommend and successfully apply remedial measures.

The activities of the Committee have resulted in a progressive reduction in the faults reported from a total of 261 in the year 1929–30 to 86 for the year under review. The most pronounced reduction has been in respect of the telephone cable system, upon which very few electrolysis faults now occur.

PART II.—FINANCIAL AND COMMERCIAL.

FINANCIAL.

ANNUAL ACCOUNTS.

The Balance-sheet and General Profit and Loss Account, accompanied by summarized Operating Accounts of the Branch Undertakings of the Commission, as well as Schedules of Fixed Capital and of Debentures guaranteed by the Commission, are contained in Appendix No. 1.

The outstanding features of the principal accounts are hereunder reviewed.

LOAN LIABILITY.

The total indebtedness of the Commission at 30th June, 1936, amounted to £18,806,748, including the liability to the State of Victoria (£17,555,606), Unemployment Relief Fund (£100,000), State Electricity Commission of Victoria Loans (£1,066,180), and Municipal Debentures (£84,962).

In comparison with the loan indebtedness of the previous year, the figures showed a net decrease of £720,561, accounted for as follows:—

	£	£
Reduction in indebtedness to State through National Debt Sinking Fund		101,797
Redemption of State Electricity Commission of Victoria Loans Nos. 1 and 2		9,820
Redemption of Debentures as follows:—	£	
Melbourne Electric Supply Co. 6½ per cent. debentures	300,000	
Melbourne Electric Supply Co. 7 per cent. debentures	400,000	
Sundry Municipal Debentures	9,361	
		709,361
Repayment of balance of £101,770 charged to Commission in 1922		5,973
Repayment of flotation expenses London Conversion Loan and exchange on Treasury Bills		4,928
		831,879
Less—Added liabilities—	£	
State Electricity Commission of Victoria Loan No. 3	100,000	
Municipal Debentures	8,996	
Victorian Government Advances—Discount Expenses on renewal of loans 1935–36	2,322	
		111,318
Net reduction in Loan Liability		720,561

BORROWING POWERS.

The borrowing powers vested in the Commission by the *State Electricity Commission Borrowing Act* (No. 4087) 1933 were further exercised during the year to the extent of £100,000. This amount was borrowed in Melbourne at 4 per cent., repayable in fifteen years, with 1 per cent. Sinking Fund.

The Commission on 31st October, 1935, redeemed the £300,000 6½ per cent. and £400,000 7 per cent. debenture issues of the Melbourne Electric Supply Co. Ltd. The total debenture liability under the purchase agreement with the Company has now been redeemed.

In this connexion, mention must be made of the fact that the Company has instituted a suit for legal action against the Government, claiming that payment of the debentures should have been made in the currency of the country in which the debentures are held. The Government is contesting the action, and has made the Commission a party to the suit. The total amount involved is about £160,000.

RESERVES.

The Depreciation and Sinking Fund at 30th June, 1936, stood at £4,133,258. Of this amount, £659,367 was to the credit of the National Debt Sinking Fund, £3,458,071 to the credit of the Depreciation Fund, which is invested in the business of the Commission, and £15,820 to the credit of the State Electricity Commission Sinking Fund—the last-mentioned being the provision of 1 per cent., which is an obligation under the terms of issue.

The increase in Depreciation and Sinking Fund for the year was £449,668, including £117,738 interest on the Depreciation Fund. While this increase is £144,391 lower than the increase for the previous year, straight line depreciation of assets being written off increased from £45,996 to £103,143.

Contingency and other Reserves.—The Contingency Reserve has been increased by an allocation of £100,000 in accordance with a recent decision of the Commission to build up a substantial investment outside the business as an insurance against unforeseen happenings of a major nature. This amount has been invested in Australian Consolidated Stock.

Certain other relatively small provisions were made through the year for the purpose of writing out plant of a limited life, including—

Further conversions from single phase to three phase in the Metropolitan Area	£30,000

The Reserve for Doubtful Debts increased by £5,020, the usual provision being made of one quarter of one per cent. of revenue. The actual bad debts for the year amounted to £3,471, representing 0·1 per cent. of a total revenue of £3,490,468. This percentage again showed a decrease which, together with the increased revenue, reveals a satisfactory position in regard to this phase of the activities.

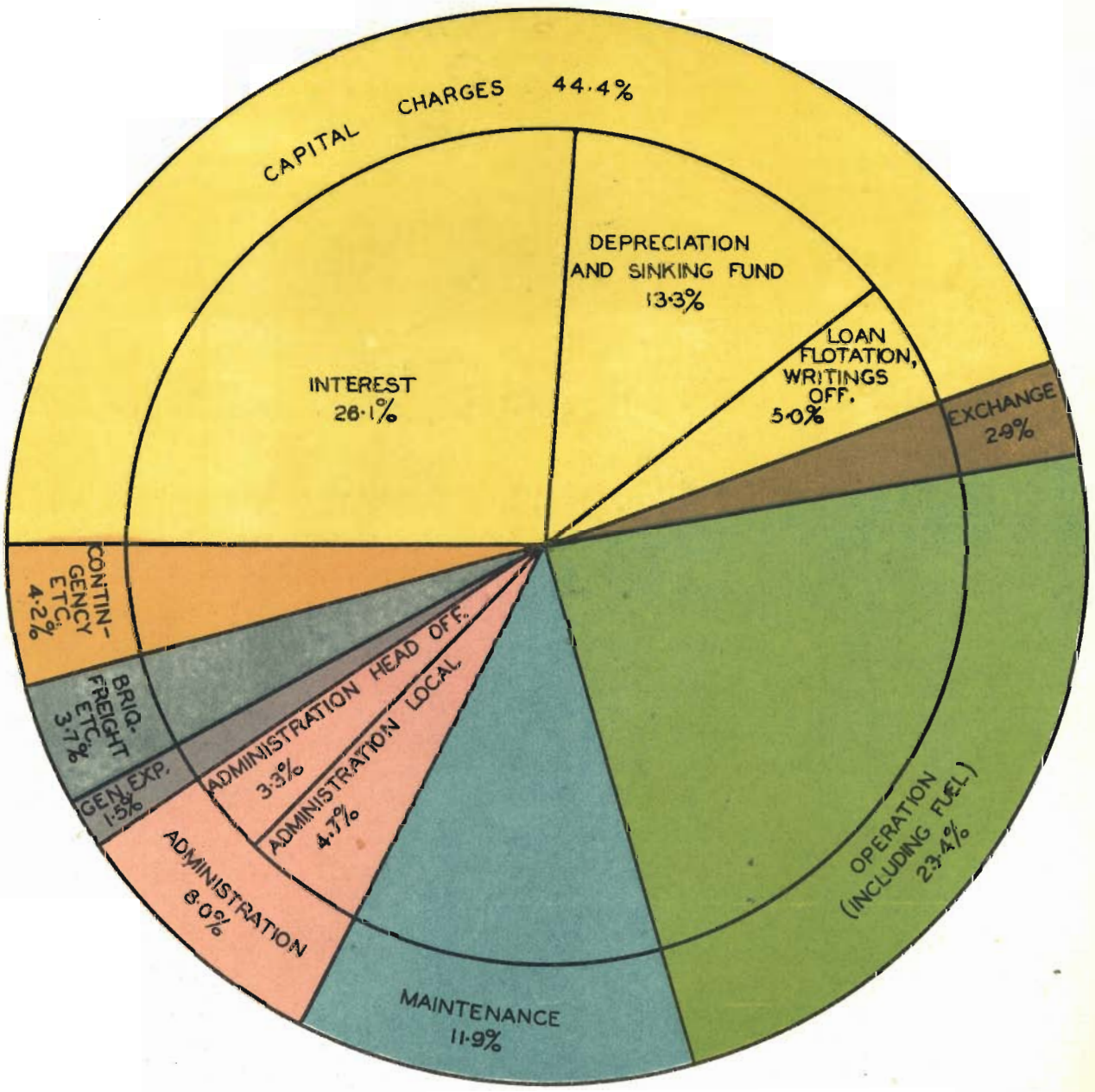
CAPITAL EXPENDITURE.

After allowing for writings out and adjustments, the net addition to fixed capital accounts was £561,164, against £661,158 for the previous year. The accounts mainly affected are as follow :—

	£
Power Stations—	
Yallourn	61,856
Transmission Lines—	
Central Supply System	27,477
Yarraville to Geelong	27,705
Castlemaine Branch	23,848
North-eastern Branch	11,020
Transmission Sub-stations—	
Central Supply	12,794
Castlemaine Branch	24,228

STATE ELECTRICITY COMMISSION OF VICTORIA

DIAGRAMMATIC SUBDIVISION OF TOTAL OPERATING EXPENDITURE FOR FINANCIAL YEAR 1935-36



Distributing Systems—	
Metropolitan Electricity Supply	106,927
Ballarat Electricity Supply	26,055
Bendigo Electricity Supply	48,222
Eastern Metropolitan Branch	17,479
Gippsland Branch	26,645
North-eastern Branch	21,505
Tramways—	
Ballarat	35,931
Bendigo	27,593
Townships—	
Yallourn	17,326
General—	
Yallourn	18,270
Metropolitan Area	31,142

CURRENT AND ACCRUED ASSETS.

The item "Sundry Debtors" has already been commented on under the heading of Doubtful Debts Reserve. The Stores Account showed an increase of £4,919. Value of Materials on Hand was actually reduced by £17,965, while stocks of briquettes increased by £22,884.

RESERVE FUNDS.

Sinking Fund, £8,795, is the amount invested by Municipalities towards redemption of debentures, and accrues to the Commission upon redemption of such debentures.

Contingency Fund, £100,296, is the investment of the £100,000 previously referred to, plus interest accrued.

EXPENDITURE TREATED AS IN SUSPENSE.

Overburden Removal and Disposal—£498,956.—During the year an amount of £41,053 was charged through the accounts as a writing down of the Overburden Account at the Old Brown Coal Mine. In addition, the account was decreased by an amount of £666, representing the difference between the cost of removing overburden during the year at the new cut (£98,948) and the amount charged from this account to Coal Winning at the rate of 8d. per ton of coal won (£99,614).

Loan Flotation Expenses—£281,568.—An amount of £5,719 was added to this account, representing discount and flotation expenses charged by the State of Victoria, but, on the other hand, £46,309 was written off in accordance with usual practice.

Amount charged to Commission by Treasury in accordance with 1922 decision of the Government—£32,023.—This is the outstanding balance of the amount of £62,023 charged to the Commission under the above decision of the Government. This amount is being reduced by £5,000 annually.

Hospital and Health Centre, Yallourn—£28,882.—This figure represents a decrease of £2,689 from the previous year, after allowing for interest and amortization, which is being effected over a period of years. These facilities are entirely maintained by the Yallourn Medical and Hospital Society.

Miscellaneous, £69,550.—The main item covered by this account—cost of exchange on the redemption of the Melbourne Electric Supply Co. 7½ per cent. American Gold Bonds—is being liquidated over a period of ten years.

PROFIT AND LOSS ACCOUNT.

Compared with the previous year's figure, Electricity revenue has increased by £168,996, with an increase in expenditure of £141,010. The loss on Briquetting showed a decrease, being £10,181 during the year, against £11,268 in the previous period. The final net profit for the year (£27,728) compares favorably with that of last year (£6,478). After deducting the net profit, the accumulated loss now stands at £721,784.

Interest payments again showed a decrease, being £23,749 lower than last year, due mainly to the redemption of the Melbourne Electric Supply Co. 6½ per cent. and 7 per cent. debentures. This also had the effect of slightly reducing the amount of exchange.

STATE ELECTRICITY COMMISSION OF VICTORIA.

RESULTS OF OPERATIONS OF ALL ACTIVITIES.

SUMMARY OF INCOME AND EXPENDITURE.

Year Ended 30th June, 1935.				Year Ended 30th June, 1936.			Compared with Year Ended 30th June, 1935 + or −
£	£	£		£	£	£	£
		2,995,707	Electricity Supply Revenue			3,164,703	+ 168,996
		297,858	Briquetting Revenue			348,650	+ 50,792
		77,121	Tramways Revenue			78,207	+ 1,086
		10,098	Miscellaneous Revenue			8,180	− 1,918
		3,380,784	Total Revenue			3,599,740	+ 218,956
		1,494,071	*Less* Working and Administration Expenses			1,744,637	+ 250,566
		1,886,713	Surplus on Operations			1,855,103	− 31,610
	956,663	..	*Less* Interest		932,914	..	− 23,749
	494,992	..	Depreciation and Sinking Fund		465,047	..	− 29,945
	236,082	..	Flood Expenditure		..	..	− 236,082
	104,405	..	Exchange on Overseas Remittances		101,185	..	− 3,220
	24,061	..	Provident Fund Contributions		26,658	..	+ 2,597
			Available for Appropriation—				
—	..	..	To Contingency Reserve	100,000	..	..	+ 100,000
—	..	..	Special Reserve	50,000	..	..	+ 50,000
16,000	..	..	Special Writings off	62,758	..	..	+ 46,758
5,835	..	..	Redemption of Debentures	9,693	..	..	+ 3,858
17,850	..	..	Loan Flotation Expenses	46,309	..	..	+ 28,459
			Special Expenditure—				
12,651	..	..	Water Power Investigations, &c.	20,424	..	..	+ 7,773
6,696	..	..	Administration of Electric Light and Power Act	7,388	..	..	+ 692
5,000	..	..	Liquidation of Liability of £62,023 imposed by State Government, 1922	5,000	..	..	..
	64,032				301,572	..	+ 237,540
		1,880,235				1,827,376	− 52,859
		6,478	Net Profit			27,727	+ 21,249

COMMERCIAL.

ELECTRICITY SUPPLY.

Contributions of Consumer Classes to Year's Results.—The increase in sales of electricity during the year was 58,537,197 kilowatt-hours. Since 1930-31, when electricity supply in Victoria felt the full effect of the depressed conditions then prevailing throughout the world, progress has been steady and substantial. This is disclosed by the following comparison :—

Year.	Sales, kilowatt-hours.
1929–30	394,754,454
1930–31	379,572,140
1931–32	403,984,629
1932–33	439,030,189
1933–34	474,452,023
*1934–35	519,566,774
1935–36	578,103,971

* Includes figures for Ballarat and Bendigo undertakings for the first time.

VARIATION IN CONSUMPTION OF RETAIL CONSUMER CLASSES AND OF BULK SUPPLY AUTHORITIES.

The analyses given below show the contributions to the year's improvement by each class of consumer directly served by the Commission :—

—	Industrial.		Commercial.		Domestic.	
	1935–36 compared with 1934–35.	1934–35 compared with 1933–34.	1935–36 compared with 1934–35.	1934–35 compared with 1933–34.	1935–36 compared with 1934–35.	1934–35 compared with 1933–34.
Metropolitan Electricity Supply ..	+ 5·5	+ 7·9	+ 9·8	+ 7·5	+ 9·5	+ 13·7
Provincial Cities—						
Ballarat Electricity Supply ..	+ 7·6	+ 22·6	+ 11·7	+ 10·0	+ 15·0	+ 19·1
Bendigo Electricity Supply ..	+101·6*	+ 92·7*	+ 27·0	+ 17·7	+ 21·1	+ 20·7
Geelong Electricity Supply† ..	+ 18·9	+ 2·2	+ 22·6	+ 8·2	+ 21·0	+ 9·0
Country Branches	+ 11·7	+ 40·5*	+ 15·3	+ 17·4	+ 10·6	+ 9·5
Overall	+ 8·3	+ 10·5	+ 12·2	+ 9·8	+ 10·2	+ 13·1

* These abnormal increases were due to the development in gold mining.
† The abnormal increases recorded for the year 1935–36 were due to the transfer of the group of towns on the Bellarine Peninsula to Geelong Electricity Supply from South-western Branch on 1st July, 1935.

In regard to domestic supplies, the improvement expressed as an increase in the consumption per consumer is 4·5 per cent. compared with 1934–35, or 46·2 per cent. compared with 1929–30. The following table shows the growth in the average yearly consumption per consumer since 1929–30 :—

Year.	Average Consumption per Domestic Consumer.
1929–30	333 kilowatt-hours.
1930–31	369 ,, ,,
1931–32	390 ,, ,,
1932–33	423 ,, ,,
1933–34	446 ,, ,,
1934–35	466 ,, ,,
1935–36	487 ,, ,,

METROPOLITAN MUNICIPAL DISTRIBUTING AUTHORITIES.

The following table shows that all the metropolitan distributing authorities purchased more bulk energy in 1935–36 than in 1934–35 :—

	1935–36 compared with 1934–35.	1934–35 compared with 1933–34.
Box Hill	+ 12·2	+ 13·3
Brunswick	+ 13·6	+ 16·2
Coburg	+ 16·9	+ 7·4
Footscray	+ 18·6	+ 16·3
Heidelberg	+ 14·2	+ 11·6
Melbourne	+ 16·5	+ 5·5
Northcote	+ 8·1	+ 5·6
Port Melbourne	+ 17·0	+ 9·6
Preston	+ 17·2	+ 9·1
Williamstown	+ 16·8	+ 8·7
Overall	+ 15·3	+ 8·6

COMMISSION'S ELECTRICITY SUPPLY UNDERTAKINGS FOR LOCAL DISTRIBUTION.

ABSTRACT OF OPERATING ACCOUNTS FOR YEAR 1935-36.

NOTE.—From the surplus shown in this abstract has to be deducted Exchange, Sinking Fund, Provident Fund and other indirect annual charges detailed in the General Profit and Loss Account.

	Earnings.	Working and Administrative Expenses.	Interest.	Depreciation.	Surplus or Deficit.
	£	£	£	£	£
Metropolitan Bulk Supplies	538,355	497,166	..	..	S. 41,189
Metropolitan Electricity Supply	1,833,939	1,263,233	174,789	57,311	S. 338,606
Ballarat Electricity Supply and Tramways	97,967	77,703	4,765	1,311	S. 14,188
Bendigo Electricity Supply and Tramways	99,066	91,144	5,882	1,569	S. 471
Castlemaine Branch	30,781	15,284	11,229	5,371	D. 1,103
Eastern Metropolitan Branch	114,184	71,076	19,972	7,270	S. 15,866
Geelong Electricity Supply and Tramways	194,029	134,494	21,233	9,403	S. 28,899
Gippsland Branch	95,806	59,341	18,126	7,502	S. 10,837
North-Eastern Branch	147,883	101,209	26,313	13,477	S. 6,884
South-Western Branch	71,090	49,190	15,121	5,359	S. 1,420
Western Metropolitan Branch	12,678	9,643	1,561	589	S. 885
Yallourn and Brown Coal Mine Township	7,132	5,149	775	206	S. 1,002
	3,242,910	2,374,632	299,766	109,368	S. 459,144
*Transfer to Appropriate Columns, Interest and Depreciation included in Working and Administrative Expenses	..	611,849*	411,453	200,396	..
	3,242,910	1,762,783	711,219	309,764	S. 459,144

The following summary of statistical data is extracted from information contained in this Report :—

(*a*) The number of consumers on supply at the end of the year totalled 224,771, an increase over the previous year of 11,836, or 5·6 per cent.

(*b*) The total sales of electricity by branches amounted to 371,022,858 kilowatt-hours, an improvement of 31,222,994 kilowatt-hours, or 9·2 per cent. over last year. The respective increases in the Domestic, Commercial, and Industrial classes were 10·2 per cent., 12·2 per cent., and 8·3 per cent.

(*c*) The revenue for the year from the ten branches comprising the Electricity Supply Department increased by £105,102 (4·2 per cent.) to £2,619,215, while the incidence of the tariff reductions introduced during the year was largely responsible for the price per kilowatt-hour sold decreasing from 1·776d. to 1·694d., or 4·6 per cent.

Metropolitan Electricity Supply.—The seventeen suburban municipalities formerly served by the Melbourne Electric Supply Co. Ltd., together with Essendon-Flemington, Sunshine, Deer Park, and portion of the Shire of Broadmeadows, are supplied by this undertaking.

All classes of consumers contributed to the increased sales of electricity for the year, the principal increases being in the Domestic (9·5 per cent.), Commercial (9·8 per cent.), and Industrial (5·5 per cent.) fields. Tariff reductions and increased sales of electricity account for a reduced price per kilowatt-hour sold under the three main classes of supply.

The number of consumers increased by 6,420, bringing the total to 160,909. Of the total increase, domestic supply accounted for 6.120. The connected loading increased by 32,908 kilowatts to 484,620 kilowatts. Of this increase, 20,512 kilowatts were in respect of domestic loading and 8,501 kilowatts in respect of industrial loading.

On the 7th March, 1936, certain reticulation assets of the Coburg City Council, situated in the Fawkner area of the Shire of Broadmeadows, were acquired by the Commission. Approximately 137 consumers were involved in the change.

Ballarat Electricity Supply.—This undertaking, which was acquired from the Electric Supply Company of Victoria Limited, on the 1st July, 1934, supplies an area embracing the City of Ballarat, the Borough of Sebastopol, and portion of the Ballarat Shire. Co-ordinated with the electricity supply undertaking is the local tramway system.

The number of domestic consumers on supply (5,772) showed an increase of 237 for the year. The number of consumers of all classes increased from 7,098 to 7,359. The horse-power of motors connected at the 30th June showed an increase from 5,333 to 5,506.

Increased sales of electricity amounting to 15 per cent., 11·7 per cent., and 7·6 per cent., were recorded in the domestic, commercial, and industrial classes respectively.

Extensions of supply during the year totalled 19, principal among which were those to the Ballarat Broadcasters Pty. Ltd. (3BA) and Australian Flax Industries Ltd., while a supply of 100 kVa was made available to the Victorian Railways for welding purposes.

Bendigo Electricity Supply.—This undertaking, with which is co-ordinated the tramway system, supplies the City of Bendigo, the Borough of Eaglehawk (which undertaking was acquired on the 1st February, 1936), and portions of the Shires of Strathfieldsaye and Marong.

The number of consumers increased from 5,714 to 6,829 (including 777 consumers at Eaglehawk), while the horse-power of motors increased from 5,000 to 6,800. Sales of electricity to all classes of consumers showed increases, the respective increments under the three main headings being Domestic 21·1 per cent., Commercial 27 per cent., and Industrial 101·6 per cent. The latter increase was largely attributable to additional mining loading, aggregating approximately 1,800 horse-power. Other additional loading obtained was the extension of supply to the Railway Workshops, Bendigo, for the operation of welding equipment (100 kVa).

Castlemaine Branch.—With its headquarters at Castlemaine, this branch serves an area of 121 square miles, and embraces seventeen towns and localities, with Keilor in the south and Harcourt in the north. During the year, supply was extended to Maldon, Keilor and Arundel, the Back Creek Mine, Taradale, and Hicks' Pipe Works, Castlemaine.

The reduced consumption of a large consumer in the industrial class was mainly responsible for the decreased sales of electricity (2·8 per cent.) in this class. In the domestic and commercial classes increases of 11 per cent. and 15·7 per cent. respectively, were recorded.

The number of consumers on supply increased from 2,674 to 2,859.

Eastern Metropolitan Branch.—With Dandenong as the administrative centre, this branch serves an area of 373 square miles, extending from Healesville to the seaside resorts skirting Port Phillip Bay as far as Portsea. In all, 76 centres are supplied.

During the year, supply was extended to Warrandyte, Somers, Harrisfield, Kallista, and Epping. These extensions assisted in an increase of 13·2 per cent. in sales to domestic consumers, while the higher consumption of several large consumers in the commercial and industrial classes resulted in increments of 14·5 per cent. and 19·7 per cent. respectively. The total number of consumers on supply increased from 10,082 to 10,989.

Geelong Electricity Supply.—Ninety square miles of area are served by this undertaking, which has Geelong and environs as the principal centre of supply, and is bounded by Lara in the north, Torquay in the south, and Queenscliff and Portarlington (in the Bellarine Peninsula) in the extreme east. The local tramway system is co-ordinated with the electricity supply system.

The Bellarine Peninsula was transferred to the undertaking from the South-western branch at the beginning of the year, but for comparative purposes the figures for Bellarine have been included in those for Geelong for 1934–35.

The total number of consumers increased from 10,994 to 11,578, the domestic class accounting for approximately 90 per cent. of the increase. The number of additional motors connected was 252, representing 1,401 horse-power, bringing the total number of motors connected to supply to 2,365, equalling 18,996 horse-power.

Sales of electricity to all classes were higher than in the previous year, the principal improvements being in the domestic (9·1 per cent.), commercial (15·4 per cent.), and industrial (18·9 per cent.) classes.

Extensions of supply to the Geelong Water and Sewerage Trust's forced air pump at Gardiner's Creek-road (near Charlemont) and the Commonwealth Naval Mine Depot, Swan Island, were made during the year.

Gippsland Branch.—This branch extends from Koo-wee-rup to Lakes Entrance and Bruthen, and from Morwell, via Korumburra, to numerous centres in South Gippsland. The administrative centre is at Traralgon, the area covered is 452 square miles, and the towns and localities served total 70.

Extensions of supply were made to Koo-wee-rup, Bayles, Lang Lang, Cora Lynn, Nyora, Monomeith, Metung, Caldermeade, Ellinbank, Lindenow East, Hillside, Clydebank area (Sale), Yannathan, Dumbalk, Meeniyan, Stony Creek, Catani, and Hazelwood Flats (Yinnar).

Sales of electricity in the domestic and commercial classes increased by 16·3 per cent. and 31·1 per cent. respectively, due to more consumers and a higher average consumption per consumer in the former case, and largely to the extension of supply to the Sale Broadcasting Station in the latter case. Due mainly to an unfavorable season for butter factories, a shorter season in the beet sugar industry, and reduced consumption by the coal-mining industry at Korumburra, the kilowatt-hours sold in the industrial class decreased by 11·5 per cent.

The number of consumers on supply at the end of the year was 8,300, an increase of 980. The increase in the horse-power of motors connected was 375.

North-Eastern Branch.—Thirty-seven centres are supplied by this undertaking, which has an area of 366 square miles, with Benalla as the administrative centre. It extends from Alexandra in the south to Echuca and Wodonga in the north.

Bulk supply was made available to Tocumwal, in the Shire of Berrigan (New South Wales). The electricity supply undertakings in the town of Rochester and Violet Town were acquired during the year.

Extensions were constructed to Shepparton East, Orrvale, Baddaginnie, and Kyabram West.

Substantial increases were recorded in the number of kilowatt-hours sold in the domestic, commercial, and industrial classes, the respective increments being 16·5 per cent., 16·6 per cent., and 26·1 per cent.

The number of motors increased by 240 to 1,043, with a corresponding increase in horse-power of 5,906. The number of consumers increased from 8,005 to 9,068, the acquisition of Rochester and Violet Town adding approximately 450 to the total.

South-Western Branch.—With Colac as its headquarters, this branch supplies 35 centres, in an area which extends from Winchelsea to Warrnambool and Port Fairy.

For comparative purposes the figures relating to the Bellarine Peninsula (transferred to Geelong at the beginning of the year) have been excluded from those for the South-western branch for 1935. Motors to the number of 101, representing 220 horse-power, were added during the year, bringing the total of motors connected to 889, equalling 4,176 horse-power. The number of consumers increased from 5,754 to 6,014.

Increased sales of electricity, amounting to 8·6 per cent., 11·2 per cent., and 3·8 per cent., were recorded in the domestic, commercial, and industrial classes respectively.

Work was begun on the erection of a 22 kV. line from the Belmont sub-station to Lorne, where it is anticipated that a transmitted supply will be available before next holiday season.

Extensions of supply were made to Warncoort and to small groups of consumers near Warrnambool and Glenormiston.

Western Metropolitan Branch.—Werribee, Altona, Point Cook, and Laverton are served by this branch, which has an area of 27·65 square miles.

Additional sales to poultry farmers were largely responsible for increased sales of electricity in the commercial class, amounting to 30·7 per cent., while increased requirements of the Aircraft Depots at Laverton and Point Cook, and the Metropolitan Farm largely accounted for an increase of 25·9 per cent. in the industrial sales.

The number of consumers increased from 805 to 866.

COMMISSION'S ELECTRICITY SUPPLY UNDERTAKINGS FOR LOCAL DISTRIBUTION.

ALL UNDERTAKINGS—TOTAL.

	1932–33.	1933–34.	1934–35.	1935–36.
Population of Supply Area	827,980	876,218	968,575*	967,137*
Number of Consumers	185,491	192,271	212,935	224,771
Percentage of Consumers to Population	22·74	21·96	21·98	23·24
†Sales of Energy, in Classes—				
Bulk Supplies	5,507,335	5,735,781	5,843,348	6,999,359
Street Lighting	10,899,531	11,028,474	11,653,587	11,946,740
Domestic	63,808,876	69,687,339	80,584,630	88,756,610
Industrial	168,048,625	180,810,718	203,113,490	219,995,534
Commercial	29,677,282	32,901,671	38,604,809	43,324,615
	277,941,649	300,163,983	339,799,864	371,022,858
Revenue	£2,152,785	£2,265,233	£2,514,894	£2,618,599
Average Revenue per kwh. sold	1·859d.	1·811d.	1·776d.	1·694d.
Number of Motors	19,760	21,007	24,260	26,608
Total h.p. of Motors	169,646	173,699	191,550	204,503

* Population figures cover an area of supply one half of a mile on each side of high and low tension mains.

† Revenue and sales of energy, in classes, excludes adjustment for unread meters and service charges paid in advance at end of year.

COMMISSION'S ELECTRICITY SUPPLY UNDERTAKINGS FOR LOCAL DISTRIBUTION—*continued.*

RESULTS OF EACH UNDERTAKING.

METROPOLITAN ELECTRICITY SUPPLY.

	1932–33.	1933–34.	1934–35.	1935–36.
Population of Supply Area	632,800	637,993	649,600	650,921
Number of Consumers	144,664	149,338	154,489	160,909
Percentage of Consumers to Population	23·3	23·4	23·78	24·72
†Sales of Energy, in Classes—				
Bulk Supplies	264,405	177,810	214,050	426,409
Street Lighting	9,786,249	9,878,734	9,989,098	10,207,482
Domestic	53,133,386	57,972,963	65,912,275	72,149,950
Industrial	146,679,857	156,798,023	169,158,605	178,396,251
Commercial	22,296,540	24,722,916	26,583,841	29,190,290
	232,160,437	249,550,446	271,857,869	290,370,382
Revenue	£1,631,210	£1,716,276	£1,798,789	£1,830,962
Average Revenue per kwh. sold	1·686d.	1·65d.	1·588d.	1·513d.
Maximum Demand in kw.	73,386	77,630	83,423	89,412
Number of Motors (excluding Bulk Supplies)	15,038	15,961	17,193	18,552
Total h.p. of Motors (excluding Bulk Supplies)	135,647	139,317	144,218	150,994

* BALLARAT ELECTRICITY SUPPLY.

	1934–35.	1935–36.
Population of Supply Area	41,750	39,500
Number of Consumers	7,098	7,359
Percentage of Consumers to Population	17·00	18·63
†Sales of Energy, in Classes –		
Street Lighting	155,777	161,014
Domestic	1,030,845	1,185,907
Industrial	1,657,171	1,783,013
Commercial	1,466,597	1,638,497
	4,310,390	4,768,431
Revenue	£71,950	£76,206
Average Revenue per kwh. sold	4·006d.	3·836d.
Maximum Demand in kw. (Local Generation)	1,663	1,649
Number of Motors	999	1,032
Total h.p. of Motors	5,333	5,506

* Transferred to Commission on 1st July, 1934.

* BENDIGO ELECTRICITY SUPPLY.

	1934–35.	1935–36.
Population of Supply Area	33,730	31,324
Number of Consumers	5,714	6,829
Percentage of Consumers to Population	16·94	21·80
†Sales of Energy, in Classes—		
Street Lighting	317,973	322,291
Domestic	818,289	991,262
Industrial	3,177,078	6,405,001
Commercial	995,961	1,264,573
	5,309,301	8,983,127
Revenue	£61,628	£78,319
Average Revenue per kwh. sold	2·786d.	2·092d.
Maximum Demand in kw. (Local Generation)	1,580	1,645
Maximum Demand in kw. (Transmitted Supply)	631	1,540
Maximum demand in kw. (Generation—Eaglehawk)	—	110
Number of Motors	643	719
Total h.p. of Motors	4,920	6,800

* Transferred to Commission on 1st July, 1934.

CASTLEMAINE BRANCH.

	1932–33.	1933–34.	1934–35.	1935–36.
Population of Supply Area	13,550	16,665	17,330	18,286
Number of Consumers	2,428	2,541	2,674	2,859
Percentage of Consumers to Population	17·9	15·25	15·43	15·63
†Sales of Energy, in Classes—				
Street Lighting	114,318	114,485	113,200	117,919
Domestic	598,683	628,076	690,378	766,315
Industrial	289,183	421,147	470,509	457,263
Commercial	457,795	516,434	581,434	673,003
	1,459,979	1,680,142	1,855,521	2,014,500
Revenue	£29,010	£30,155	£30,206	£30,605
Average Revenue per kwh. sold	4·76d.	4·307d.	3·907d.	3·646d.
Maximum Demand in kw.	430	599	669	686
Number of Motors	193	201	204	211
Total h.p. of Motors	929	1,011	849	974

† Revenue and sales of energy, in classes, excludes adjustment for unread meters and service charges paid in advance at end of year.

COMMISSION'S ELECTRICITY SUPPLY UNDERTAKINGS FOR LOCAL DISTRIBUTION—*continued.*

EASTERN METROPOLITAN BRANCH.

	1932–33.	1933–34.	1934–35.	1935–36.
Population of Supply Area	31,600	58,800	58,800	48,990
Number of Consumers	8,702	9,232	10,082	10,989
Percentage of Consumers to Population	27·2	15·7	17·15	22·43
†Sales of Energy, in Classes—				
Bulk Supplies	—	—	—	324,703
Street Lighting	216,307	232,365	249,458	269,607
Domestic	3,123,383	3,477,038	3,891,722	4,403,994
Industrial	2,160,400	2,300,701	1,345,673	1,610,491
Commercial	1,352,499	1,612,159	2,522,957	2,889,864
	6,852,589	7,622,263	8,009,810	9,498,659
Revenue	£90,485	£99,037	£106,227	£114,221
Average Revenue per kwh. sold	3·169d.	3·118d.	3·183d.	2·886d.
Maximum Demand in kw.	2,637	2,852	2,955	3,384
Number of Motors (excluding Bulk Supplies)	475	551	533	602
Total h.p. of Motors (excluding Bulk Supplies)	3,532	3,330	3,316	3,582

GEELONG ELECTRICITY SUPPLY.

	1932–33.	1933–34.	1934–35.	1935–36.*
Population of Supply Area	45,000	45,000	45,000	54,680
Number of Consumers	9,249	9,629	9,970	11,578
Percentage of Consumers to Population	21·1	21·79	22·16	21·17
†Sales of Energy, in Classes—				
Street Lighting	223,465	224,832	227,607	256,956
Domestic	2,023,788	2,253,064	2,454,602	2,970,012
Industrial	10,507,664	12,049,433	12,315,124	14,642,582
Commercial	1,982,118	2,035,034	2,201,204	2,697,752
	14,737,035	16,562,363	17,198,537	20,567,302
Revenue	£126,429	£136,265	£139,445	£160,322
Average Revenue per kwh. sold	2·059d.	1·975d.	1·946d.	1·871d.
Maximum Demand in kw.	4,181	4,261	4,474	*a* 5,220
				b 297
Number of Motors	1,772	1,861	2,058	2,365
Total h.p. of Motors	17,380	17,058	17,488	18,996

* Bellarine Peninsula was transferred to Geelong Electricity Supply from South-Western Branch at the beginning of the year.

a Geelong. *b* Bellarine Peninsula.

GIPPSLAND BRANCH.

	1932–33.	1933–34.	1934–35.	1935–36.
Population of Supply Area	31,390	34,210	38,075	40,575
Number of Consumers	6,558	6,758	7,320	8,300
Percentage of Consumers to Population	20·9	19·75	19·22	20·46
†Sales of Energy, in Classes—				
Street Lighting	200,541	202,364	209,292	217,804
Domestic	1,718,466	1,838,133	1,969,347	2,291,254
Industrial	2,991,351	3,552,113	4,010,108	3,550,767
Commercial	1,101,615	1,184,726	1,326,166	1,738,804
	6,011,973	6,777,336	7,514,913	7,798,629
Revenue	£80,105	£83,045	£88,666	£96,354
Average Revenue per kwh. sold	3·198d.	2·94d.	2·832d.	2·965d.
Maximum Demand in kw.	2,100	2,335	2,620	2,730
Number of Motors	762	797	882	1,049
Total h.p. of Motors	3,956	4,002	4,111	4,486

NORTH-EASTERN BRANCH.

	1932–33.	1933–34.	1934–35.	1935-36.
Population of Supply Area	36,940	43,050	43,390	46.561
Number of Consumers	6,845	7,497	8,005	9.068
Percentage of Consumers to Population	18·53	17·4	18·45	19·48
†Sales of Energy, in Classes—				
Bulk Supplies	5,242,930	5,557,971	5,629,298	6,248,247
Street Lighting	170,981	190,273	206,500	229.413
Domestic	1,458,984	1,625,645	1,853,488	2.158,906
Industrial	2,518,792	2,429,803	6,975,455	8,795,157
Commercial	1,373,888	1,559,269	1,669,358	1,947,215
	10,765,575	11,362,961	16,334,099	19.378,938
Revenue	£108,213	£111,553	£128,319	£147,412
Average Revenue per kwh. sold	2·413d.	2·356d.	1·885d.	1·826d.
Maximum Demand in kw.	2,874	3,159	4,558	5,162
Number of Motors (excluding Bulk Supplies)	665	710	803	1,043
Total h.p. of Motors (excluding Bulk Supplies)	3,640	3,822	5,906	7,852

† Revenue and sales of energy, in classes, excludes adjustment for unread meters and service charges paid in advance at end of year.

COMMISSION'S ELECTRICITY SUPPLY UNDERTAKINGS FOR LOCAL DISTRIBUTION—*continued*.

SOUTH-WESTERN BRANCH.

	1932–33.	1933–34.	1934–35.	1935–36.*
Population of Supply Area	32,200	36,200	36,600	32,000
Number of Consumers	6,339	6,526	6,778	6,014
Percentage of Consumers to Population	19·7	18·03	18·52	18·79
†Sales of Energy, in Classes—				
Street Lighting	153,878	163,725	162,986	142,276
Domestic	1,548,605	1,678,156	1,730,616	1,588,838
Industrial	2,303,397	2,528,433	3,080,160	3,192,222
Commercial	1,017,773	1,067,220	1,064,343	1,032,371
	5,023,653	5,437,534	6,038,105	5,955,707
Revenue	£77,806	£78,438	£78,299	£71,428
Average Revenue per kwh. sold	3·717d.	3·462d.	3·112d.	2·878d.
Maximum Demand in kw.	(*a*) 1,720	(*a*) 1,870	(*a*) 1,820	1,940
	(*b*) 213	(*b*) 260	(*b*) 236	—*
Number of Motors	772	831	843	889
Total h.p. of Motors	3,706	4,234	4,392	4,176

* Bellarine Peninsula was transferred to Geelong Electricity Supply at the beginning of the year.
(*a*) Belmont Sub-station. (*b*) Supply to Bellarine Peninsula.

WESTERN METROPOLITAN BRANCH.

	1932–33.	1933–34.	1934–35.	1935–36.
Population of Supply Area	4,500	4,300	4,300	4,300
Number of Consumers	706	750	805	866
Percentage of Consumers to Population	15·7	17·44	18·72	20·14
†Sales of Energy, in Classes—				
Street Lighting	33,792	21,696	21,696	21,978
Domestic	203,581	214,264	233,068	250,172
Industrial	597,981	731,065	923,607	1,162,787
Commercial	95,054	203,913	192,948	252,246
	930,408	1,170,938	1,371,319	1,687,183
Revenue	£9,527	£10,464	£11,365	£12,770
Average Revenue per kwh. sold	2·457d.	2·146d.	1·989d.	1·817d.
Maximum Demand in kw.	371	405	448	565
Number of Motors	93	95	102	146
Total h.p. of Motors	856	925	1,017	1,137

† Revenue and sales of energy, in classes, excludes adjustment for unread meters and service charges paid in advance at end of year.

PROMOTION OF BUSINESS.

Domestic Class.—The increase in the use of electricity for domestic purposes during the year averaged 21 kWh. per consumer, bringing the average to 487 kWh. per consumer per annum. Although this evidences a continuance of the trend towards the more general use of electricity in the home, it still compares unfavorably with the domestic consumption of electricity in other countries having no better standard of living than exists in Victoria, where the rate of progress is not as great as is justified by the favorable nature of the charges for electricity, and the benefits to be gained by its use.

Industrial Class.—The net increase in electric motors connected amounted to 13,000 horse-power, including installations at new premises, extensions to existing plants and conversions from other forms of power. Having regard to the comparatively small number of factories which are not already completely electrified, this increase is quite satisfactory.

In addition, a number of new electric heat-treatment installations were secured, including one steel-melting furnace of 1,000 horse-power in the metropolitan area.

Mining.—At the end of the year, 58 consumers were taking supply for mining purposes, and the kWh. sold for mining purposes during the twelve months amounted to 10,000,000 kWh.

Rural.—Marked progress was registered in respect of supply to rural farm consumers, whose number was increased by 605, making the total 1,970.

During the year, a new form of cheaper high tension-line construction, with steel conductors and long spans, was adopted, and this has assisted in reducing the cost of extending supply from existing trunk lines.

Experimental work was carried out towards the development of small automatic pumps of the direct-coupled type for domestic and stock water supply as an economic application of electricity for farm purposes.

All-Electrical Exhibitions.—During September and October, 1935, a successful electrical exhibition was held in the Exhibition Building by the electrical interests of Victoria, and at this exhibition the public attendances exceeded those recorded during the 1927 exhibition. The Commission and the majority of the metropolitan bulk supply authorities, in conjunction, accepted responsibility for providing certain interesting exhibits of a general character. In particular, the Melbourne City Council and the Commission installed the " Court of Light " and the " House of Magic." In addition, and with the assistance of eight of the other supply authorities, a first-class all-electric restaurant and kitchen were sponsored during the course of the exhibition. The success of the exhibition is attributable to the willing co-operation of all the electrical interests concerned, and to the assistance rendered by those Government departments and public bodies which also co-operated.

At a later date, a similar exhibition, on a smaller scale, was successfully organized in Ballarat by local electrical interests, and was greatly appreciated by the residents.

Educational Films.—During the year, the Commission arranged for the production of a modern film, approximately 7,000 feet in length, and complete with sound, covering various features of the Commission's enterprises. The production was arranged, after discussion with the Victorian Education Department, in a form suitable for use in schools. With the co-operation of that department, it is being shown to a regular schedule in a large number of the Departmental and other schools throughout the State.

In order to ensure that the scholars obtain the maximum educational benefit, the screenings are under the supervision of a fully qualified science teacher. This officer, by means of supplementary lectures and working models, is enabled to demonstrate the associated elementary scientific principles and to provide the students with a well ordered basis for further thought and study.

This film is also being made available for private screenings by organized societies or bodies.

TARIFF REDUCTIONS.

The table given below shows that the average selling price per kilowatt-hour in the areas served by the Commission has fallen by 35 per cent. since 1924–25, revenues having increased by only 91 per cent. for an increase in consumption of 195 per cent. Calculated on sales of electricity during 1935–36, the decrease in the average selling price per kilowatt-hour since 1924–25 represents an annual benefit to consumers of £1,417,000. To this benefit direct reductions in tariffs have contributed £248,000 per annum based on the consumption figures at the time such reductions were made. The balance of the benefit is made up of the reduced cost per kilowatt-hour to consumers caused by the automatic reductions in the average price per kilowatt-hour as consumption increases. This reduction is due to the Commission's form of tariffs, which are progressively adding to the economic advantages to be gained from an extended use of electricity. The following is the comparison between the returns for 1924–25 and 1935–36 :—

Year.	Total Retail Sales in kWh.	Revenue.	Average Selling Price per kWh.
		£	
1924–25	124,536,000	1,358,000	2·62d.
1935–36	367,741,000	2,598,000	1.70d.
	Increase 243,205,000 = 195%	Increase 1,240,000 = 91%	Decrease 0·92d. = 35%

In the domestic class specifically, the reduction in the average selling price per kilowatt-hour is 49 per cent. In this case the comparison is made with the year 1925–26, this being the first year in which the consumptions of the various consumer classes were recorded separately :—

DOMESTIC CLASS.

Year.	Total Retail Sales in kWh.	Revenue.	Average Selling Price per kWh.
		£	
1925–26	26,583,000	600,000	5·42d.
1935–36	89,630,000	1,041,000	2·79d.
	Increase 63,047,000= 237%	Increase 441,000 = 73%	Decrease 2·63d. = 49%

The direct reductions in tariffs made during the year amounted to £67,000 per annum, based on the consumption at the time the reductions were made. The nature and effective dates of these direct reductions are as follow :—

1st July, 1935.

Metropolitan Electricity Supply.

(*a*) An all-purposes (power, heating, and lighting) tariff in block form was introduced for commercial and industrial consumers ;

(*b*) The energy charge of the residential (formerly domestic) two-part tariff was reduced from 1·1d. to 1d. per kilowatt-hour.

1st August, 1935.

Metropolitan Area.

(*c*) The standard bulk supply tariff to metropolitan municipalities was reduced to £9 per kilowatt of maximum demand per annum + 0·225d. per kWh.

1st August, 1935.

All Areas.

(*d*) The scope of the domestic two-part tariff was extended to cover, in addition to private houses and flats, licensed hotels, registered boarding houses, public and private hospitals, public and charitable institutions of a residential nature, boarding schools and convents, and residential clubs, and the title of the tariff was changed to Residential Two-Part Tariff.

Geelong Electricity Supply, Ballarat Electricity Supply, Bendigo Electricity Supply, and Country Branches.

(*e*) A commercial cooking tariff of 1·5d. per kWh. was introduced.

15th May, 1936.

Geelong Electricity Supply.

(*f*) The price of the first block (500 kWh. per month) of the commercial and industrial lighting tariff was reduced from 6d. to 5·5d. per kWh., and the price of remaining consumption in the same month from 4d. to 3·5d. per kWh.

Ballarat Electricity Supply and Bendigo Electricity Supply.

(*g*) The basic rates of the commercial and industrial lighting tariffs were reduced from 7d. to 6·5d. per kWh. and block tariffs were substituted for the M.D. tariffs.

Country Branches.

(*h*) The basic rates of the commercial and industrial lighting tariffs were reduced in most cases by ½d. per kilowatt hour, and block tariffs were substituted for the tariffs incorporating discounts.

Geelong Electricity Supply, Ballarat Electricity Supply, Bendigo Electricity Supply, and Country Branches.

(*i*) Public lighting tariffs were reduced by amounts approximating 7 per cent.

BRIQUETTE DISTRIBUTION.

Sales	**336,487 tons**
Revenue	**£348,650**
Expenditure	**£358,831**
Loss	**£10,181**

All charges, including interest and depreciation, are covered in the expenditure, and the net loss is £1,087 less than in 1934–35.

Business in both the industrial and household markets was steady during the period, and the selling prices were at the same level as in 1934–35. Sales showed an increase of 24,039 tons, compared with 1934–35, when, however, production was restricted for a time through shortage of coal as a result of the flood.

TRAMWAYS.

The total loss on the Tramway undertakings in the three provincial cities amounted to £21,066, compared with £15,995 last year. The individual loss in respect of each city was :—

	£
Ballarat	3,801
Bendigo	2,212
Geelong	15,053

The overall revenue increased from £77,121 to £78,207, due to the number of car passengers at Bendigo and Geelong having increased by 4 per cent. and 2·9 per cent. respectively. The total expenditure (£99,273) exceeded that for last year by 6·6 per cent., higher traffic expenses at Ballarat, maintenance of car bodies at Bendigo, and track repairs and alterations to Birney tramcars at Geelong, combining, with increased wages rates generally, to account for the increase.

The Ballarat and Bendigo Tramways are more favorably placed at the present time in regard to capital charges than are those at Geelong, as the money borrowed for necessary reconstruction in the first two cities is free of interest for the first two years, and no depreciation is being charged during the reconstruction period. Very little work remained to be done at the end of the year to complete the reconditioning of overhead equipment at Bendigo, while at Ballarat certain alterations were still necessary, because of the re-location of curves and loops. The reconstruction of the permanent way at Bendigo was practically completed, only a small amount of double track remaining to be done. At Ballarat, seven and a half miles of sleeper track were reconstructed, leaving approximately seven and three-quarter miles to complete. Reconditioning, in open ballast, of the whole of the Sebastopol track was commenced.

Rationing of labour was carried out in connexion with these reconstruction works in conjunction with the Labour Bureaux, the number of men engaged during the year totalling 160 at Bendigo and 169 at Ballarat.

PART III.—DESIGN, CONSTRUCTION, AND OPERATION.

COAL SUPPLY.

YALLOURN OPEN CUT.

Overburden Removal.—The quantity of overburden removed during the year was 993,210 cubic yards (previous year 547,000 cubic yards). The total amount of overburden removed since operations commenced is 9,835,500 cubic yards. At the end of the year the area of the cut had increased from 206 acres to 226 acres at grass level, and from 175 acres to 198 acres at the level of the surface of the coal.

Coal-winning.—The coal won during the year amounted to 2,988,430 tons (previous year 1,737,718 tons). The total coal excavated from the cut since the beginning of operations is 20,981,231 tons. Of the coal won during the year, 1,584,858 tons went to the power station, and 1,403,572 tons to the briquette factory.

In the previous year the outputs of both overburden and coal were affected by the 1934 flood, and this mainly accounts for the differences shown in the comparisons made.

Boring.—Thirteen exploratory bores, aggregating 3,409 feet, were put down during the year in the area between the Prince's Highway and the main Gippsland railway line. These proved an average depth of 213 feet of coal covered by an average depth of 44 feet of overburden.

POWER PRODUCTION.

YALLOURN POWER STATION.

Maximum load during year	**99,000 kw.**
Generated during year	**440,269,700 kwh.**
Received from Briquette Factory	**47,339,200 kwh.**
Total	**487,608,900 kwh.**

On three occasions during the year there were brief periods of reduction of supply from the power station, due to accidental circumstances; in no case was there any serious disturbance of supply to the power system generally.

In the early part of the financial year, the second 25,000 kw. turbo-alternator set, No. 8, was completed, and put into service.

Owing to the heavy increase in system loading, arrangements have been made for the installation of the third and fourth 25,000 kw. turbo-alternator sets. The third one (No. 9) is expected to be erected and in operation towards the end of 1937, and the remaining machine is intended to be available for operation early in 1939.

Boiler Plant.—The boiler plant performed excellently, and met the increased loading (14,000 kw. more than the previous year) without difficulty.

The completion of four medium pressure boilers was proceeded with in order that the expected increased loading for the year 1937 can be dealt with satisfactorily. In addition, the necessary material for two additional boilers, making a total of ten boilers in No. 2 boiler house, was ordered, and it is expected that this boiler house will be fully equipped and completed by the end of 1938.

In accordance with the general designs for levee protection of the Yallourn area, arrangements were in progress at the close of the year for extending circulating water screens, and thoroughly protecting the screen pits and screen house from flood-borne debris. At the same time, the construction of the new weir extension on the Latrobe River had advanced very considerably. All necessary plant was on order, including the 100-ft. roller gate, which is being manufactured by Thompson's Engineering and Pipe Company, to the designs of the Maschinenfabrik Augsburg Nürnberg, A.G., which has the contract for the gear for operating the roller gate.

In conjunction with the construction of the weir and its new wing wall, outlets have been provided for the new route of the power station circulating water conduit and the new drain from the township. The latter, with its 1,400-ft. tunnel, embankment, and subsidiary drains, was complete and put into operation at the end of May.

Complete coal-conveying equipment was provided between the terminal bunker and No. 2 boiler house, with an arrangement for the cross-conveying of coal between the two boiler houses, this conveyor being reversible so as to give standby between the two conveyor lines.

At the end of the year the erection of a complete plant for the disposal of ash by settlement and filtering, with special pits and ponds to ensure a clear effluent, had reached an advanced stage.

RICHMOND POWER STATION.

Maximum load during year	**15,100 kw.**
Generated during year	**29,859,000 kwh.**

This station operated satisfactorily during the year.

NEWPORT POWER STATION.

Maximum load during year	**19,300 kw.**
Generated during year	**16,721,018 kwh.**

The operation of this station was satisfactory throughout the year.

SUGARLOAF–RUBICON HYDRO-ELECTRIC STATIONS.

Maximum load during year	**25,000 kw.**
Generated during year	**134,687,200 kwh.**

These plants operated very satisfactorily, and without incident, throughout the year.

YALLOURN–MELBOURNE 132,000 VOLT TRANSMISSION LINES.

One of the Yallourn–Melbourne transmission circuits was interrupted for 25 minutes on the 9th June, 1936, but this did not in any way affect the remaining circuits or distribution of load on the major system.

THOMASTOWN–NORTH-EASTERN 66,000 VOLT TRANSMISSION LINE.

This transmission line was affected by lightning on two occasions during the summer season, one occasion causing an interruption to the North-Eastern system for one minute, and the other separating the hydro system from the Melbourne system for six minutes, without any interruption to system services.

THOMASTOWN–BENDIGO 66,000 VOLT TRANSMISSION LINE.

This line was brought into active commission at 66,000 volts on the 8th March, 1936, and has operated without incident since that date.

TERMINAL STATIONS.

The terminal stations were operated without any serious fault during the year. Two minor faults occurred at Thomastown and two at Richmond, due to birds coming in contact with 22,000 volt switchgear, but in each instance the protective equipment operated satisfactorily and limited interruption to sections of switchgear.

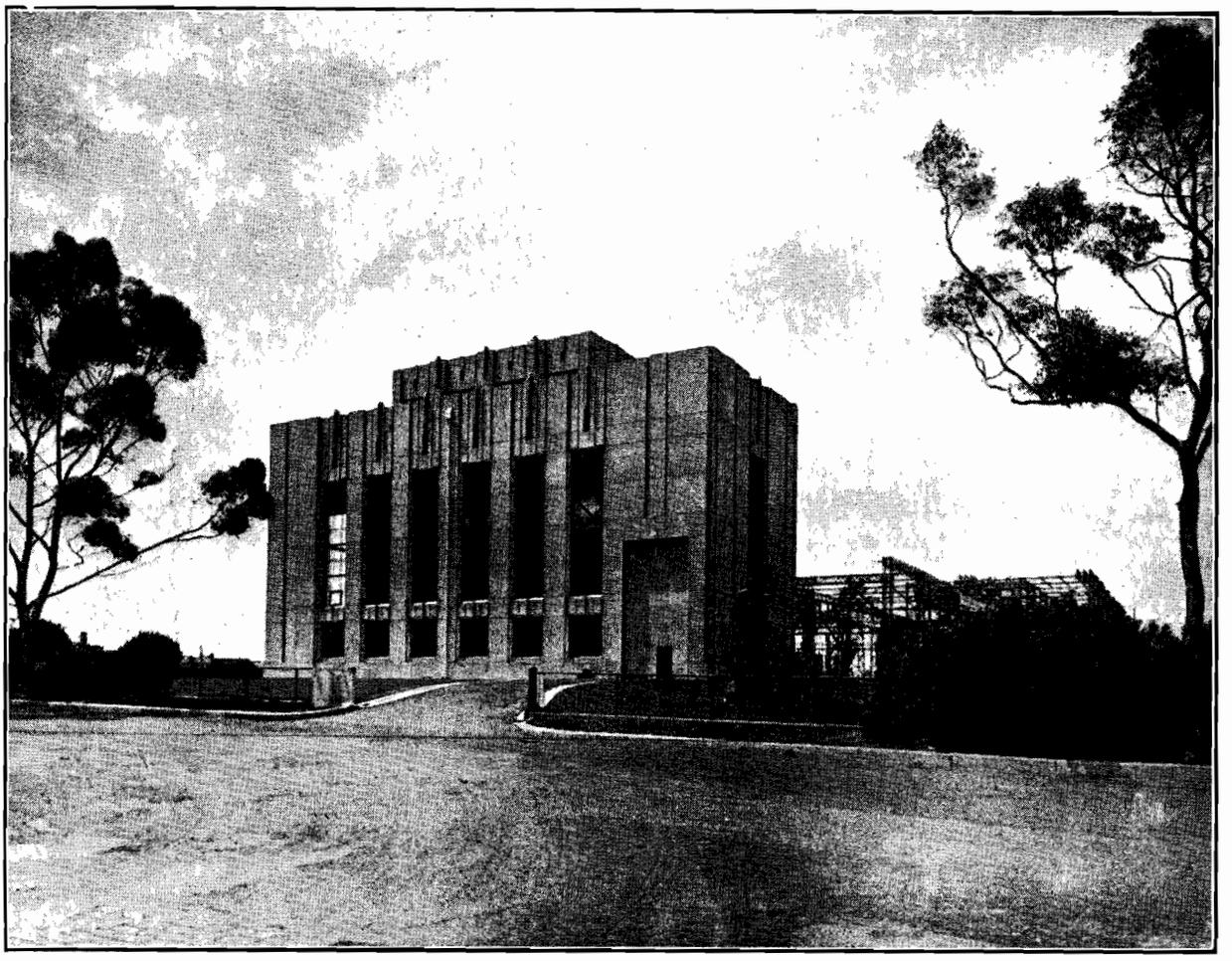
CENTRAL SUPPLY.

There were two faults on the 22,000 volt underground cable system. Both occurred on cables laid in 1923, and were probably due to heavy loading and unfavorable ground conditions during the summer. Neither fault had any effect on system supplies, and automatic operations satisfactorily isolated faulty cables.

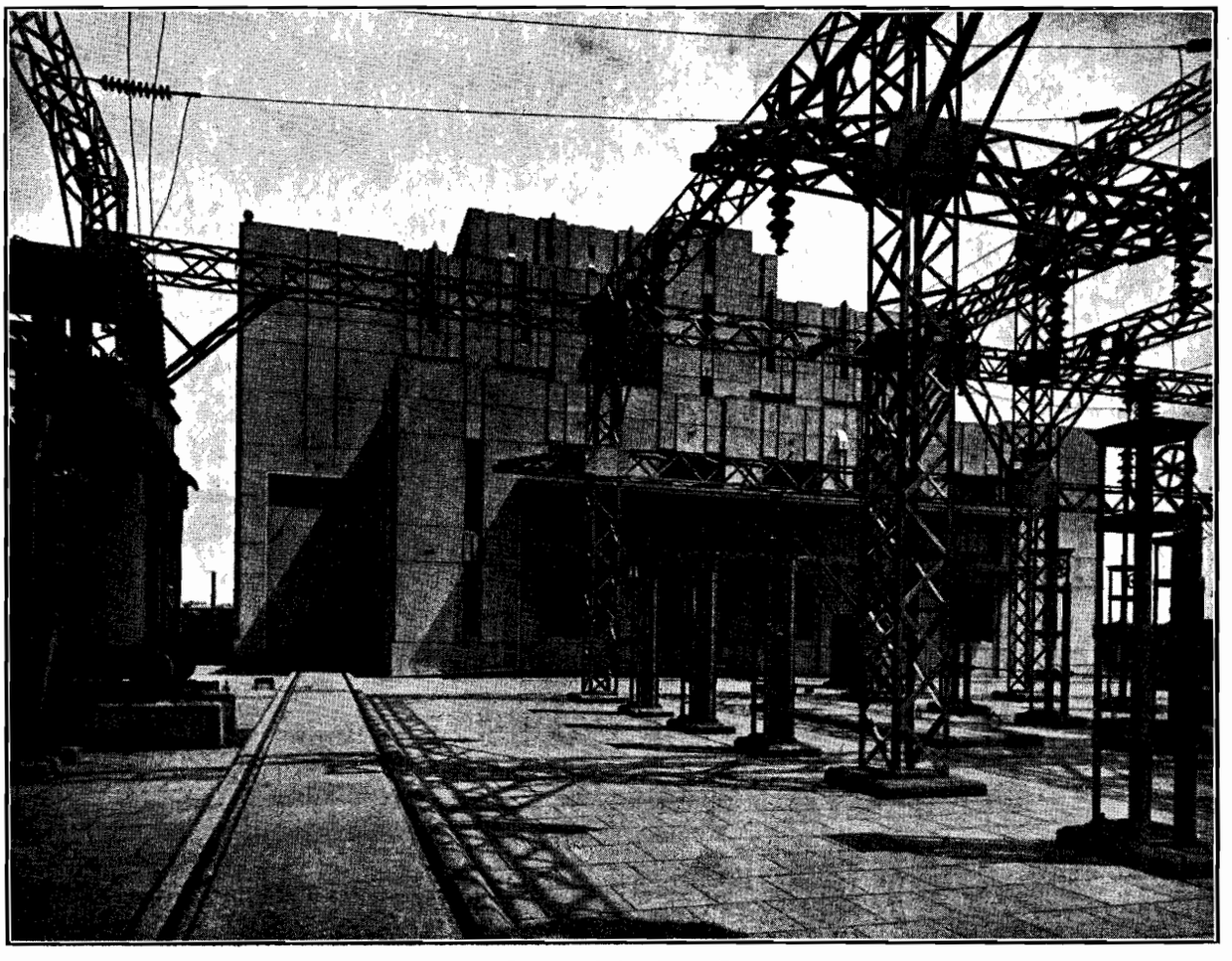
NEW CONSTRUCTION.

In connexion with the 66,000 volt transmission to Bendigo a major transmission sub-station was constructed at Bendigo, switching provision was made at Thomastown, and 19 miles of transmission circuit between Thomastown and Sunbury were erected.

A transmission line 40 miles in length was constructed between Yarraville Terminal Station and Geelong, together with a temporary sub-station at Geelong to provide for inter-connexion of Geelong and Melbourne at the transmission voltage of 22,000. This is an interim arrangement pending the energizing of the circuits at the full designed pressure of 66,000 volts



Richmond Terminal Station. Front view.



Richmond Terminal Station. Rear view.

To increase transmission capacity to sub-station " D " (Ascot Vale), 22,000 volt cables were laid between that station and Yarraville, picking up on the way a new sub-station at Maribyrnong.

In order to meet an increase in the demand of the Footscray City Council, two 6,600 volt cables were laid to an agreed point in the Footscray area, where the council is to erect a switching station.

At sub-station " G " (South Melbourne) the transformer capacity was increased by the installation of an additional 9,000 kva. transformer bank, and at sub-station " C " (Brunswick) the total transformer capacity was increased to 12,000 kva.

Plant additions were also provided at Spotswood and at Sunshine, and a revision of switching arrangements was carried out at sub-station " R " (Richmond) and at Ringwood.

WATER POWER INVESTIGATIONS.

During the year, investigations were largely concentrated on the Kiewa River, which appears to afford more favorable prospects than any other stream for large-scale hydro-electric development. The Hume–Mitta scheme, however, has also received further consideration, and the possibility of future development on the Snowy River has not been overlooked.

River gauging has been actively continued, and all gauging stations are now equipped with automatic recording gauges, of which 23 are being maintained—eight on the Kiewa, and six on the Hume–Mitta scheme. Measuring equipment for high flows was improved.

Diamond rock drilling to test the possibilities of tunnels and other works on the Kiewa proceeded throughout the year, together with detailed topographic surveys.

Hydrological studies on the Bogong High Plains continue to yield valuable results.

ELECTRICITY SUPPLY.

Metropolitan Electricity Supply.—The number of consumers taking supply increased by 6,420, and the improvement in the connected load amounted to 32,908 kilowatts. To cope with this development eighteen sub-stations aggregating 4,295 kva. were added, bringing the totals to 546 sub-stations and 134,775 kva. respectively. In addition to 49½ cable miles of high tension conductor, 78·85 cable miles of low tension reticulation were erected during the year.

As opportunity offered in connexion with these improvements and extensions to the system, certain areas in Caulfield, St. Kilda, Malvern, and Moorabbin were converted from single-phase to three-phase operation.

High tension (6·6 kv.) lines were constructed from Glenroy to supply 137 Fawkner consumers residing within the municipality of Broadmeadows. A 6·6 kv. extension was also constructed to supply Campbellfield.

Ballarat Electricity Supply.—The route mileage of 6·6 kv. overhead lines increased from 16·6 to 20·4 as a result of supply being extended to new areas. Five additional isolating switches were installed in the existing high tension system in order to improve the facilities for operating the distribution system.

The number of sub-stations in service increased by four to 27, with a corresponding increase in the transformer capacity from 425 kva. to 2,750 kva.

The work in regard to the changeover of certain areas from direct current to alternating current proceeded throughout the year, 1,814 consumers being affected, and the replacement of 63 motors aggregating 211 horse-power being involved. As the changeover work proceeded opportunity was taken to recondition the low tension distribution system.

Bendigo Electricity Supply.—The reconstruction of the low tension reticulation proceeded satisfactorily, the work being carried out in conjunction with changeover activities. The changeover from direct current to alternating current was completed in the Kennington area during the year, and a commencement made on the only remaining outlying section, viz., North Bendigo, the conversion of which will be brought to completion within the next few months. The number of consumers concerned in the changeover during the year totalled 572, including 100 consumers at Eaglehawk.

Three and a half miles of 6.6 kv. lines were converted to 22 kv. construction, the total route miles of which were increased by over 8 miles.

The total number of distribution sub-stations in operation (30) exceeded last year by six, and the capacity of the transformers in circuit increased from 4,387 kva. to 5,155 kva. During the year seven sub-stations were erected, totalling 1,000 kva. In order to improve

the general distribution system and to enable additional consumers to be connected to supply, a 100 kva. sub-station was dismantled (Forest–Rowan streets) and three sub-stations were converted to 22 kv., viz., White Hills, Forest–High streets, and Forest–Valentine streets.

The electricity supply undertaking at Eaglehawk was acquired by the Commission on the 1st February, 1936, the local generating plant continuing in operation for the present.

Since the completion of the Thomastown–Bendigo feeder in February last, Bendigo has received a transmitted supply at a pressure of 66 kv., this supplementing the supply from the local power station.

Castlemaine Branch.—The No. 2 circuit of the Sunbury–Castlemaine transmission line was completed in July, 1935, all 22 kv. spur lines and the Castlemaine–Bendigo transmission lines being transferred to the new main line circuit on the 28th of that month.

The Thomastown–Sunbury transmission line was placed in service on the 13th October, 1935, on which date the Castlemaine–Bendigo line was transferred from No. 2 to No. 1 circuit of the main line, thereby enabling the Bendigo Branch to take supply from the Thomastown Terminal Station—initially at 22 kv., and from February, 1936, at 66 kv.

A 22 kv. single-phase line was erected to supply Keilor, electricity being made available during November, 1935. Two short high tension extensions were also constructed to the Back Creek Mine, Taradale, and Hicks' Pipe Works, Castlemaine, while the construction work on the extension to Maldon was completed.

Largely as a result of the foregoing, the 66 kv. lines in operation exceeded last year by 18.5 route miles, and the 22 kv. lines increased by 12.784 route miles, the corresponding figures in respect of the cable mileage being 212.08 and 37.412 respectively.

The capacity of the transformers in circuit increased by 130 kva. as a result of six additional sub-stations being placed in service during the year.

Eastern Metropolitan Branch.—Over 20 cable miles of 22 kv. line were erected during the year, extensions of supply to Somers and Coldstream West accounting principally for the increase. In addition 67·91 cable miles were converted from 6·6 kv. to 22 kv. operation, such conversion being mainly associated with the Ringwood–Upwey feeder, and the Carrum–Seaford feeder. The extension from Ringwood to Warrandyte, involving the erection of 21·24 cable miles of line, was of 22 kv. construction, but is being temporarily operated at a pressure of 6·6 kv.

The number of sub-stations in operation at 30th June was 237, an increase of 28, while the capacity of the transformers in circuit (7,022 kva.) exceeded last year by 775 kva. Aerial-type sub-stations to the number of 43 were erected, while fifteen aerial and eight ground-type sub-stations (including one aerial and seven ground-type sub-stations acquired from the Carrum Electric Supply Co. Ltd.) were demolished and replaced by 22 aerial-type sub-stations. The net increase in transformer capacity was 475 kva.

Geelong Electricity Supply.—About 5 route miles (16·06 cable miles) of 6·6 kv. conductor were erected during the year, the chief extensions of supply being to the Geelong Water and Sewerage Trust's forced air pumping plant, Gardiner's Creek-road (near Charlemont), and to the Commonwealth Naval Mine Depot, Swan Island. The latter extension involved special long-span construction, which necessitated the use of high tensile stranded steel conductors on structures of special design.

Transmitted supply to Geelong began on the 15th June.

Gippsland Branch—The 22 kv. lines increased by 73·54 route miles (188·75 cable miles), due to the numerous extensions of supply and the conversion from 6·6 kv. of the local feeders at Leongatha, Traralgon, and Sale.

The construction of the ring main has facilitated the carrying out of operation and maintenance works on the South and West Gippsland feeders. Of 45 additional sub-stations erected during the year, 35 were in respect of rural supplies.

North-Eastern Branch.—During the year 46·65 route miles (130·95 cable miles) of 22 kv. lines were erected, chiefly as a result of extensions of supply to Rochester, Violet Town (temporarily operated at 6·6 kv.), and Shepparton East.

The transformer capacity of the main sub-stations increased from 10,500 kva. to 12,500 kva., and sixteen distribution sub-stations, aggregating 1,470 kva., were added during the year.

The town of Rochester was converted from direct current to alternating current supply, approximately 350 consumers being affected.

South-Western Branch.—The number of main sub-stations in service remained at five, while the capacity increased from 5,250 kva. to 7,025 kva. Four distribution sub-stations were added during the year, increasing the total to 75, and the transformer capacity from 4,070 kva. to 4,237 kva.

Replacements of steel-cored aluminium cable by cadmium copper cable on the Allansford and Port Fairy–Koroit feeders, amounting to 3·186 cable miles and 0·246 cable miles respectively, were effected during the year in order to overcome the corrosion of lines attributable to the effect of salt air.

Preliminary arrangements have been made for the construction of a 22 kv. line from Belmont sub-station, Geelong, to Lorne. It is due for completion before the end of 1936.

BRIQUETTING DEPARTMENT.

The output of briquettes for the year was 357,601 tons, an increase of 10·5 per cent. on the production for the previous year, during portion of which conditions were abnormal, due to the flooding of the Yallourn open cut.

The respective outputs for "H," "I," and "N" type briquettes were 118,462, 125,123, and 114,016 tons.

The electricity generated at the factory amounted to 65,044,010 kwh., of which 47,339,200 kwh. were delivered to the power station. The energy consumed by the factory was 17,463,660 kwh.

Two brief shutdowns occurred during the year, one being due to the failure of a valve, and the other to a fire in drier flue No. 1. Apart from these two instances, the plant operated satisfactorily and without interruption.

The extension of the truck traverser, the additional railway siding east of shed "A," and the new mechanical loading equipment in shed "A" have been in operation since April.

PART IV.—GENERAL.

STAFF.

The Commission has pleasure in recording its appreciation of the loyal and efficient service rendered by the staff during a very busy year of expansion and general progress.

Mr. H. R. Harper, Chief Engineer, Electricity Supply, Generation and Transmission, retired on the 31st July, 1936, after seventeen years' service, dating from the inauguration of the Commission, when he was appointed its Chief Engineer. At its meeting on the 15th June, 1936, the Commission recorded the following minute :—

> " That the State Electricity Commission of Victoria hereby records its high appreciation of Mr. Harper's valuable services, and of the eminent part played by him in the establishment and development of electricity supply in Victoria."

Mr. Harper's name always will be inseparably associated with the development of Victoria's brown coal resources, and his work prior to the inception of the Commission did much to direct the State's attention to the practicability of the use of this fuel for the generation of electricity to be distributed throughout the State.

It is the sincere wish of Commissioners and staff that good health and happiness may attend Mr. Harper in his retirement, and that he may long enjoy the leisure that he has so well earned.

Mr. E. Bate, who had been the Commission's Electrical Engineer since 1921, was appointed to succeed Mr. Harper, and Mr. W. A. Potts, who was Assistant Electrical Engineer, was promoted Electrical Engineer, in succession to Mr. Bate.

(Sgd.) F. W. CLEMENTS, Chairman.

THOMAS R. LYLE, Commissioner.

D. J. McCLELLAND, Commissioner.

C. A. NORRIS, Commissioner.

(Sgd.) W. J. PRICE,
Secretary,

30th September, 1936.

APPENDIX No. 1.

STATE ELECTRICITY COMMISSION OF VICTORIA

GENERAL PROFIT AND LOSS ACCOUNT FOR YEAR ENDED 30th JUNE, 1936.

Dr. *To Expenditure—*	£	s.	d.	£	s.	d.
Electricity Supply—						
Purchased Power	32,412	11	6			
Generation and Transmission	1,577,139	2	6			
Distribution	1,090,814	12	5			
	2,700,366	6	5			
Deduct Cost of Power transferred to Works	15,873	10	10			
				2,684,492	15	7
Briquetting—						
Manufacturing	240,987	15	6			
Distribution and Selling	189,249	4	8			
	430,237	0	2			
Deduct Cost of Briquettes transferred to Works	71,405	17	4			
				358,831	2	10
Tramways				99,273	11	4
Miscellaneous				27,812	16	0
Sinking Fund Contributions				9,692	10	0
Provident Fund Contributions				26,658	0	6
Loan Flotation Expenses				46,308	16	4
Exchange on Overseas Remittances				101,184	18	5
Proportion of Amount charged to Commission by Treasury in accordance with decision of Cabinet, 22nd July, 1922				5,000	0	0
Contingency Reserve				100,000	0	0
Provision for Single Phase Conversion, &c.				50,000	0	0
Special Writings off				62,758	6	6
Profit carried down				27,727	12	3
				3,599,740	9	9
To Balance as at 30th June, 1935				749,511	3	9
				£749,511	3	9

Cr. *By Income—*	£	s.	d.	£	s.	d.
Electricity Supply—						
Bulk Supply	566,287	6	6			
Street Lighting	127,051	5	10			
Domestic	1,041,379	12	3			
Industrial	842,137	6	9			
Commercial	577,490	8	8			
Miscellaneous	9,740	4	7			
	3,164,086	4	7			
Add Meters unread 30th June, 1936, and Service Charges received in advance 30th June, 1935	186,095	17	6			
	3,350,182	2	1			
Deduct Meters unread 30th June, 1935, and Service Charges received in advance 30th June, 1936	185,478	16	2			
				3,164,703	5	11
Briquetting—						
Briquette Sales	325,765	9	3			
Add Briquettes on hand 30th June, 1936	43,250	4	4			
	369,015	13	7			
Deduct Briquettes on hand 30th June, 1935	20,365	6	6			
				348,650	7	1
Tramways				78,207	3	5
Miscellaneous				8,179	13	4
				3,599,740	9	9
By Profit for year				27,727	12	3
By Balance as at 30th June, 1936, carried to General Balance-sheet				721,783	11	6
				£749,511	3	9

APPENDIX No. 1.

STATE ELECTRICITY COMMISSION OF VICTORIA.

GENERAL BALANCE-SHEET AS AT 30th JUNE, 1936.

LIABILITIES.

	£	£ s. d.	£ s. d.
CAPITAL LIABILITIES—			
Victorian Government Advances—			
Loan Act No. 3029	355,000		
„ „ 3101	1,430,000		
„ „ 3160	2,006,000		
„ „ 3234	1,576,000		
„ „ 3306	1,447,000		
„ „ 3381	1,569,500		
„ „ 3433	1,841,000		
„ „ 3478	1,918,334		
„ „ 3565	1,750,000		
„ „ 3606	2,050,000		
„ „ 3831	1,874,000		
„ „ 3934	1,160,000		
„ „ 3993	240,000		
	19,216,834		
Expenditure under above Acts		10,876,334 0 0	
Add Expenditure under Treasury Act No. 3598		1,250,000 0 0	
„ „ „ „ „ 3825		1,000,000 0 0	
„ „ „ „ „ 3274		2,500,000 0 0	
„ „ „ „ „ 3345		1,500,000 0 0	
„ „ „ „ „ 3934		907,337 5 3	
„ „ „ „ „ 2026		146,700 6 7	
		18,180,371 11 10	
Deduct Redeemed or cancelled Securities		659,366 16 8	
		17,521,004 15 2	
Advance from National Recovery Loan Fund		100,000 0 0	
Advance by Treasury from Public Account		34,601 13 6	
		17,655,606 8 8	
State Electricity Commission of Victoria Loans	£1,082,000 0 0		
Deduct Redeemed or cancelled Securities	15,820 0 0		
		1,066,180 0 0	
Debentures (as per Schedule)		84,961 14 4	
			18,806,748 3 0
CURRENT AND ACCRUED LIABILITIES—			
Sundry Creditors		79,904 14 4	
Sundry Creditors, Retention		8,191 19 9	
Consumers' Deposits		30,799 6 9	
Service Charges received in Advance		75,887 18 5	
Unclaimed Wages		93 9 8	
Consumers' Advances for Construction		11,569 12 1	
Other Deposits and Trust Moneys		11,862 10 3	
Interest Accrued		12,305 9 9	
Salaries and Wages Accrued		36,362 5 3	
Insurances, Telephone Charges, and Rents Accrued		10,441 2 8	
Miscellaneous Current and Accrued Liabilities		19,982 6 2	
			297,400 15 1
RESERVES—			
Depreciation and Sinking Funds		4,133,258 6 10	
Contingency and other		231,681 1 11	
Doubtful Debts		15,107 19 0	
			4,380,047 7 9
			£23,484,196 5 10

ASSETS.

	£ s. d.	£ s. d.
FIXED CAPITAL—		
Coal Supply Works	939,469 8 10	
Briquette Works	1,249,076 0 2	
Power Stations—		
Steam	4,706,605 6 6	
Hydro	803,891 18 0	
Transmission Lines	2,354,763 13 2	
Terminal Stations	943,109 11 8	
Transmission Sub-stations	658,583 5 3	
Distributing Systems	5,611,884 2 11	
Tramways	210,737 16 0	
Townships	734,315 18 6	
General	1,464,241 8 10	
Unfinished Construction	1,215,699 4 10	
	20,892,377 14 8	
Deduct Proportion of cost of extensions payable by Consumers	26,136 2 1	
		20,866,241 12 7
CURRENT AND ACCRUED ASSETS—		
Cash	3,252 11 2	
Sundry Debtors	468,763 11 9	
Stores	339,399 7 9	
Advances	1,168 0 0	
Investments	33,770 0 0	
Miscellaneous Current and Accrued Assets	4,806 15 2	
		851,160 5 10
RESERVE FUNDS—		
Sinking Fund	8,794 19 11	
Contingency Fund	100,295 12 5	
		109,090 12 4
SUSPENSE—		
Overburden Removal and Disposal	498,955 15 10	
Preliminary Investigations	909 15 0	
Chargeable Work	1,093 14 9	
Paid in Advance Accounts	2,558 15 1	
Unamortised Loan Flotation Expense	281,568 9 3	
Work in Progress	20,378 3 9	
Amount charged to Commission by Treasury in accordance with decision of Cabinet, 22nd July, 1922	32,023 6 8	
Hospital and Health Centre, Yallourn	28,882 1 1	
Miscellaneous	69,550 2 2	
Profit and Loss Account as at 30th June, 1935 £749,511 3 9		
Less Profit for year 1935-36 27,727 12 3		
	721,783 11 6	
		1,657,703 15 1
		£23,484,196 5 10

There is a contingent asset and liability in respect of securities lodged as bona fides under Contracts to the extent of £8,398 18s. 5d., and held by the Bank on the Commission's behalf.

H. S. KILFOYLE, Chief Accountant.

R. LIDDELOW, Manager.

AUDITOR-GENERALS' CERTIFICATE.

I certify that the accounts have been examined with the books and vouchers, and I am of opinion the Balance-sheet fairly exhibits a true and correct view of the undertaking at the 30th June, 1936. The values of the stores have been accepted on the certificates of the storekeepers.

STATE ELECTRICITY COMMISSION OF VICTORIA.

BRANCH UNDERTAKINGS.

Profit and Loss Accounts for Year ended 30th June, 1936.

—	Metropolitan Electricity Supply.	Ballarat Electricity Supply.	Bendigo Electricity Supply.	Castlemaine Branch.	Eastern Metropolitan Branch.	Geelong Electricity Supply.	Gippsland Branch.	North-Eastern Branch.	South-Western Branch.	Western Metropolitan Branch.	Grand Total.
EXPENDITURE.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
To Power	877,389 7 4	28,998 8 4	40,811 15 2	6,257 3 2	28,248 1 4	64,964 17 1	25,050 0 10	48,940 15 0	23,340 18 5	4,466 6 9	1,148,467 13 5
Transmission	..	..	..	6,938 2 10	10,613 14 8	..	16,691 6 7	30,847 3 6	16,052 6 0	2,645 10 0	83,788 3 1
Generation	..	..	..	..	..	..	..	1,947 16 3	..	..	1,947 16 3
Overhead and Underground Lines	98,058 17 2	7,296 13 4	10,166 9 10	1,870 15 10	8,816 12 1	10,065 2 11	4,447 7 11	8,131 0 6	4,099 12 1	1,017 18 11	153,970 10 7
Substations	31,111 7 2	253 18 7	984 13 10	450 7 1	2,955 11 6	1,784 12 1	1,595 4 8	2,992 13 11	776 2 9	162 8 3	43,066 19 10
Meters	22,633 1 8	1,403 5 8	1,008 1 5	423 5 2	1,612 12 4	2,220 3 10	1,122 18 0	1,788 13 4	880 8 4	110 5 6	33,202 15 3
Consumers' Premises	23,595 1 0	403 0 5	468 12 4	738 9 5	2,796 3 0	1,527 11 9	2,725 14 3	2,234 6 2	836 10 11	72 9 8	35,397 18 11
Commercial Lamps	2,058 18 10	197 2 9	183 14 11	6 12 1	..	..	..	35 16 2	..	..	2,482 4 9
Public Lighting	28,030 2 11	662 4 8	1,419 15 2	420 15 3	861 5 10	1,937 15 0	848 9 6	1,360 4 1	345 2 3	264 0 5	36,149 15 1
Meter Reading, Billing and Collecting	70,386 7 7	4,148 3 11	3,825 6 11	1,302 1 4	4,014 15 1	4,201 3 8	3,288 7 0	5,006 3 8	2,086 17 4	551 9 2	98,810 15 8
Administration—Local	82,617 8 9	6,650 4 10	7,383 4 4	4,710 6 0	13,506 7 2	10,776 2 8	11,790 1 0	15,642 10 4	9,278 14 0	552 4 11	162,907 4 0
Head Office	19,885 3 5	995 10 9	1,193 5 5	657 14 10	1,969 1 11	1,736 10 10	1,495 11 3	1,974 4 1	1,081 14 3	142 8 4	31,131 5 1
Superintendence—Head Office	1,069 15 3	61 1 7	86 3 5	238 8 2	405 13 6	102 4 1	446 9 2	384 13 3	399 10 6	146 11 6	3,340 10 5
Interest	174,788 17 2	4,658 16 2	5,758 14 5	4,927 7 8	16,568 13 5	12,548 6 4	11,253 10 11	12,699 10 1	8,397 16 4	1,214 5 3	252,815 17 9
Depreciation	57,310 18 6	1,310 10 6	1,568 17 5	2,826 3 3	5,512 18 7	3,328 19 4	3,847 3 1	6,435 8 6	1,852 0 6	407 17 9	84,400 16 11
Insurance	868 10 10	33 8 10	28 10 0	..	24 7 10	85 3 10	42 3 10	42 8 1	13 16 2	4 17 3	1,143 6 8
Workers' Compensation Insurance	919 1 5	66 7 10	53 2 4	36 13 2	123 15 4	85 4 10	81 12 6	167 17 2	47 14 8	9 18 2	1,591 7 5
Uncollectable Accounts	4,609 18 6	190 18 2	193 16 0	79 16 5	288 17 9	402 1 1	242 4 1	368 10 5	180 6 8	24 10 11	6,581 0 0
Total	1,495,332 17 0	57,329 16 4	75,134 2 11	31,884 1 8	98,318 11 4	115,765 19 4	84,968 4 7	140,999 14 0	69,669 11 2	11,793 2 9	2,181,196 1 1
INCOME.											
By Sales	1,833,938 14 5	75,319 18 6	77,817 10 2	30,781 0 9	114,184 5 5	159,717 3 4	95,805 12 9	147,883 7 3	71,089 18 9	12,678 5 0	2,619,215 16 4
Operating Surplus, from which has to be deducted exchange, sinking fund, provident fund and other indirect charges detailed in General Profit and Loss Account											438,019 15 3

SALES OF ELECTRICAL APPLIANCES.—The operating accounts include in respect of this function :—Revenue, £38,979 5s. 7d. ; Expenditure, £36,753 10s. 7d. (including Interest and Depreciation, £2,869 7s. 1d.).

BRANCH UNDERTAKINGS.

Balance-sheet as at 30th June, 1936.

—	Metropolitan Electricity Supply.	Ballarat Electricity Supply.	Bendigo Electricity Supply.	Castlemaine Branch.	Eastern Metropolitan Branch.	Geelong Electricity Supply.	Gippsland Branch.	North-Eastern Branch.	South-Western Branch.	Western Metropolitan Branch.
ASSETS.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Fixed Capital—										
Power Stations—Steam	..	29,653 7 5	37,541 17 9	..	..	329,070 7 8	..	..	..	..
Transmission Lines	..	..	..	155,311 14 3	87,505 19 11	..	167,175 16 9	288,813 15 1	108,175 8 3	6,500 17 7
Transmission Substations	..	..	..	26,386 6 5	3,486 5 7	..	10,684 11 4	71,754 13 9	54,809 4 2	..
Distributing Systems	3,759,837 11 9	127,020 2 8	169,327 3 0	103,454 18 8	371,242 2 10	309,659 6 0	256,416 4 0	268,807 12 0	198,521 12 2	29,563 4 10
Tramways	..	4,484 8 4	3,342 1 0	..	..	202,911 6 8	..	..	..	..
General	607,438 8 5	5,898 1 5	7,241 10 0	4,600 11 1	18,928 1 0	24,366 3 8	7,602 15 1	18,606 7 6	13,666 5 8	84 12 11
Unfinished Construction	..	65,149 10 8	64,806 5 0	8,235 0 8	1,172 5 4	265 13 11	9,954 9 9	2,595 13 8	178 3 11	..
	4,367,276 0 2	232,205 10 6	282,258 16 9	297,988 11 1	482,334 14 8	866,272 17 11	451,833 16 11	650,578 2 0	375,350 14 2	36,148 15 4
Deduct Proportion of Cost of Extensions payable by Consumers	7,755 15 3	726 18 10	7,453 4 5	413 7 6	3,911 11 4	1,198 18 6	1,142 17 4	3,113 6 0	381 12 0	38 10 11
	4,359,520 4 11	231,478 11 8	274,805 12 4	297,575 3 7	478,423 3 4	865,073 19 5	450,690 19 7	647,464 16 0	374,969 2 2	36,110 4 5
Current and Accrued Assets—										
Cash	12,522 0 11	634 2 3	1,763 6 2	357 8 6	547 17 6	3,644 18 4	216 19 6	528 0 7	806 19 6	42 9 0
Sundry Debtors	259,193 1 9	10,595 4 6	11,370 15 3	4,487 1 9	16,580 2 2	18,204 11 6	16,074 6 2	24,753 3 9	9,192 1 11	2,230 12 4
Stores	88,120 19 9	5,445 2 5	14,663 2 7	3,701 0 2	8,767 2 0	15,975 14 5	11,897 10 5	15,407 19 0	6,818 7 8	399 13 10
Miscellaneous Current and Accrued Assets	4,174 17 0	153 19 11	104 2 0	7 9 0	37 19 3	14 18 0	30 10 8	6 16 11	9 6 10	1 16 10
Reserve Funds—										
Sinking Fund	..	..	253 14 2	4,574 8 0	1,648 13 0	..	1,614 2 2	636 7 9	67 14 10	..
Suspense—										
Preliminary Investigations	..	28 8 11	..	..	..	..	..	..	..	..
Chargeable Work	686 19 5	..	..	3 4 0	104 2 6	..	9 3 10	..	..	..
Paid in Advance Accounts	1,097 13 11	117 12 2	14 18 4	1 0 0	81 12 5	257 9 11	2 2 2	180 2 7	96 16 4	..
Work in Progress	11,167 14 11	..	150 12 10	..	..	..	..	..	..	..
Total	4,736,483 12 7	248,453 1 10	303,126 3 8	310,706 15 0	506,190 12 2	903,171 11 7	480,535 14 6	688,977 6 7	391,960 9 3	38,784 16 5
LIABILITIES.										
Capital Liabilities—										
Head Office	4,025,836 8 0	235,948 15 1	282,236 14 5	265,116 17 0	383,204 7 4	733,235 5 2	388,820 4 6	555,962 8 7	296,223 13 2	30,267 11 6
Debentures	..	..	9,258 6 7	14,926 18 0	32,569 13 7	..	6,377 5 3	17,292 16 6	3,600 0 0	936 14 5
Current and Accrued Liabilities	114,712 10 7	7,541 10 11	6,154 5 0	3,948 5 3	15,814 11 10	8,333 4 1	10,278 1 10	9,306 15 1	5,912 6 6	1,032 9 1
Reserves—										
Depreciation	590,826 4 5	4,640 18 10	4,874 19 8	26,440 0 9	74,020 4 6	160,609 17 9	74,077 7 5	105,041 1 8	85,756 2 6	6,437 6 6
Doubtful Debts	4,856 13 1	321 17 0	601 18 0	274 14 0	581 14 11	993 4 7	982 15 6	1,374 4 9	468 7 1	110 14 11
Miscellaneous	251 16 6	..	..	..	..	..	..	..	..	..
Total	4,736,483 12 7	248,453 1 10	303,126 3 8	310,706 15 0	506,190 12 2	903,171 11 7	480,535 14 6	688,977 6 7	391,960 9 3	38,784 16 5

APPENDIX No. 1—*continued.*

STATE ELECTRICITY COMMISSION OF VICTORIA.

SCHEDULE OF FIXED CAPITAL AT 30th JUNE, 1936.

	Expenditure during 1935-36.			Total Expenditure at 30th June, 1936.					
		£	s.	d.	£	s.	d.	£	s.	d.
COAL SUPPLY WORKS—										
Yallourn	Cr.	2,932	14	5	939,469	8	10			
Brown Coal Mine		..			..			939,469	8	10
BRIQUETTE FACTORY—YALLOURN	Cr.	5,168	1	9	1,249,076	0	2	1,249,076	0	2
POWER STATIONS—STEAM—										
Yallourn	Cr.	886	6	0	3,329,198	11	8			
Newport "B"		4	9	7	835,044	1	9			
Richmond	Cr.	374	5	10	146,097	0	3			
Ballarat		294	9	2	29,653	7	5			
Bendigo	Cr.	464	8	11	37,541	17	9			
Geelong	Cr.	571	11	8	329,070	7	8			
								4,706,605	6	6
POWER STATION—HYDRO	Cr.	1,592	14	2	803,891	18	0	803,891	18	0
TRANSMISSION LINES—										
Yallourn to Yarraville	Cr.	102	10	3	713,787	10	10			
Newport to Yarraville		..			26,785	18	5			
Yarraville to Geelong		27,264	0	10	27,264	0	10			
Sugarloaf to Thomastown		20	1	2	202,087	5	10			
Sugarloaf-Rubicon Area		..			33,684	7	7			
Central Supply System		2,349	16	10	537,670	17	10			
Castlemaine Branch		58,463	9	1	155,311	14	3			
Eastern Metropolitan Branch		23,031	11	10	87,505	19	11			
Gippsland Branch		34,895	1	4	167,175	16	9			
North-Eastern Branch		25,544	11	11	288,813	15	1			
South-Western Branch	Cr.	11,048	11	7	108,175	8	3			
Western Metropolitan Branch		2,964	17	5	6,500	17	7			
								2,354,763	13	2
TERMINAL STATIONS—										
Yarraville		20,351	12	2	556,578	1	7			
Thomastown		7,263	15	6	103,860	19	9			
Richmond		962	7	5	214,249	4	4			
Rubicon		..			68,421	6	0			
								943,109	11	8
TRANSMISSION SUB-STATIONS—										
Central Supply System	Cr.	895	11	10	491,462	4	0			
Castlemaine Branch		21,665	8	10	26,386	6	5			
Eastern Metropolitan Branch		3,486	5	7	3,486	5	7			
Gippsland Branch		4,603	19	1	10,684	11	4			
North-Eastern Branch		10,225	13	4	71,754	13	9			
South-Western Branch		7,044	8	4	54,809	4	2			
								658,583	5	3
DISTRIBUTING SYSTEMS—										
Metropolitan Electricity Supply		130,184	0	5	3,759,837	11	9			
Ballarat Electricity Supply		25,775	14	4	127,020	2	8			
Bendigo Electricity Supply		43,582	7	3	169,327	3	0			
Castlemaine Branch	Cr.	11,607	9	2	103,454	18	8			
Eastern Metropolitan Branch		5,069	3	0	371,242	2	10			
Geelong Electricity Supply		49,349	2	10	309,659	6	0			
Gippsland Branch		936	6	9	256,416	4	0			
North-Eastern Branch		10,993	10	9	268,807	12	0			
South-Western Branch	Cr.	28,021	1	0	198,521	12	2			
Western Metropolitan Branch		3,548	0	6	29,563	4	10			
Yallourn		241	7	5	16,336	2	5			
Brown Coal Mine		75	2	10	1,698	2	7			
								5,611,884	2	11
TRAMWAYS—										
Ballarat		4,233	1	2	4,484	8	4			
Bendigo		1,005	16	5	3,342	1	0			
Geelong		2,801	6	11	202,911	6	8			
								210,737	16	0
TOWNSHIPS—										
Yallourn		13,387	19	2	725,199	1	8			
Brown Coal Mine		..			9,116	16	10			
								734,315	18	6
GENERAL—										
Metropolitan Electricity Supply		31,459	0	11	607,438	8	5			
Ballarat Electricity Supply		1,815	10	1	5,898	1	5			
Bendigo Electricity Supply		837	3	2	7,241	10	0			
Castlemaine Branch		951	18	5	4,600	11	1			
Eastern Metropolitan Branch		600	10	6	18,928	1	0			
Geelong Electricity Supply		771	19	0	24,366	3	8			
Gippsland Branch		2,329	9	11	7,602	15	1			
North-Eastern Branch		2,346	17	5	18,606	7	6			
South-Western Branch		1,794	1	10	13,666	5	8			
Western Metropolitan Branch	Cr.	37	13	10	84	12	11			
Yallourn	Cr.	6,346	0	4	447,130	4	10			
Metropolitan Area		47,909	16	6	308,678	7	3			
								1,464,241	8	10
		562,386	6	2	19,676,678	9	10	19,676,678	9	10
UNFINISHED CONSTRUCTION—										
Beginning of year—*Add*		..			..			..		
" " *Deduct*		960,999	7	2	..			..		
	Cr.	398,613	1	0	19,676,678	9	10	19,676,678	9	10
UNFINISHED CONSTRUCTION—										
End of year—*Add*		1,215,699	4	10	1,215,699	4	10	1,215,699	4	10
		817,086	3	10	20,892,377	14	8	20,892,377	14	8
Deduct—Proportion of Cost of Extensions payable by Consumers		6,491	1	5	26,136	2	1	26,136	2	1
		810,595	2	5	20,866,241	12	7	20,866,241	12	7

APPENDIX No. 1—*continued.*

STATE ELECTRICITY COMMISSION OF VICTORIA.

SCHEDULE OF DEBENTURES.

LOANS RAISED UNDER THE AUTHORITY OF THE STATE ELECTRICITY COMMISSION ACT No. 4087.

Loan No.	Original Issue.	Rate.	Term.	Due.	Sinking Fund.	Redeemed to 30th June, 1936.	Outstanding at 30th June, 1936.
	£	%			%	£	£
State Electricity Commission of Victoria Loan No. 1	600,000	3½	20 years	1954	1	12,000	588,000
State Electricity Commission of Victoria Loan No. 2	382,000	3½	20 years	1954	1	3,820	378,180
State Electricity Commission of Victoria Loan No. 3	100,000	4	15 years	1951	1	..	100,000

DEBENTURES GUARANTEED BY THE STATE ELECTRICITY COMMISSION OF VICTORIA.

Branch.	Undertaking.	Details.	Actual Rate.	Rate under Financial Emergency Act.	Original Issue.	Date of Acquisition.	Outstanding at Date of Acquisition.	Redeemed since Date of Acquisition.	Outstanding at 30th June, 1936.	Total Outstanding.
			%	%						
METROPOLIS.										
Metropolitan Electricity Supply	Melbourne Electric Supply Company	First Mortgage Debenture Stock ..	5	5	250,000 0 0	1.9.30	197,463 0 0	197,463 0 0	..	
		Consolidated Debenture Stock ..	5	5	250,000 0 0	,,	188,596 0 0	188,596 0 0	..	
		Gold Bonds	7½	7½	513,769 0 0	,,	472,602 14 10	472,602 14 10	..	
		General Mortgage Debenture Stock ..	6	6	300,000 0 0	,,	275,595 0 0	275,595 0 0	..	
		Debenture Stock	6½	6½	300,000 0 0	,,	300,000 0 0	300,000 0 0	..	
		,, ,, ...	7	7	400,000 0 0	,,	400,000 0 0	400,000 0 0	..	
					2,013,769 0 0		1,834,256 14 10	1,834,256 14 10	..	..
COUNTRY.										
Bendigo	Kangaroo Flat ..	Marong Shire Loan No. 2	5⅞	5	1,700 0 0	1.7.31	1,591 17 11	158 5 1	1,433 12 10	
	Eaglehawk	Eaglehawk Borough .. Loan No. 5	4	4	6,000 0 0	1.2.36	1,000 0 0	1,000 0 0	..	
	,, ...	,, ,, .. ,, 6	4	4	2,500 0 0	,,	500 0 0	..	500 0 6	
	,, ...	,, ,, .. ,, 8	4¼	4¼	3,500 0 0	,,	3,150 13 3	92 0 5	3,058 12 10	
	,, ...	,, ,, .. ,, 9	3¾	3¾	4,500 0 0	,,	4,345 9 8	79 8 9	4,266 0 11	
					18,200 0 0		10,588 0 10	1,329 14 3	9,258 6 7	9,258 6 7
Castlemaine	Gisborne	Gisborne Shire .. ,, 3	6½	5.0375	900 0 0	1.10.28	781 15 5	452 8 6	329 6 11	
	Kyneton	Kyneton Shire .. .. ,, 3	5¾	5	12,000 0 0	1.10.29	10,830 0 0	1,645 0 0	9,185 0 0	
	,, ...	,, ,, ... ,, 5	6	5	3,800 0 0	,,	3,084 15 2	1,122 4 1	1,962 11 1	
	Sunbury	Bulla Shire .. .. ,, A	4¼	4¼	5,000 0 0	1.5.26	2,500 0 0	2,000 0 0	500 0 0	
	Woodend	Newham and Woodend Shire ,, 1	4	4	2,000 0 0	1.8.29	200 0 0	200 0 0	..	
	,, ...	,, ,, ,, ,, 2	5	5	750 0 0	,,	750 0 0	300 0 0	450 0 0	
	,, ...	,, ,, ,, ,, 4	6	5	1,500 0 0	,,	1,500 0 0	..	1,500 0 0	
	,, ...	,, ,, ,, ,, 5	6	5	1,000 0 0	,,	1,000 0 0	..	1,000 0 0	
					26,950 0 0		20,646 10 7	5,719 12 7	14,926 18 0	14,926 18 0

Schedule of Debentures Guaranteed by the State Electricity Commission of Victoria—*continued.*

Branch.	Undertaking.	Details.	Actual Rate.	Rate under Financial Emergency Act.	Original Issue.	Date of Acquisition.	Outstanding at Date of Acquisition.	Redeemed since Date of Acquisition.	Outstanding at 30th June, 1936.	Total Outstanding.
			%	%						
		COUNTRY—*continued.*								
		Brought forward								
Eastern Metropolitan..	Dandenong.. ..	Dandenong Shire.. .. Loan No. 19	6¼	5	6,600 0 0	1.10.23	5,941 7 1	5,349 9 10	591 17 3	
	,, ...	,, ,, ... ,, 20	6	5	4,600 0 0	,,	3,946 19 0	1,992 3 10	1,954 15 2	
	Frankston	Frankston and Hastings Shire ,, 10	6½	5.0375	5,000 0 0	21.2.28	3,690 16 11	3,188 12 11	502 4 0	
	,, ...	,, ,, ,, ,, 11	6	5	3,000 0 0	,,	2,277 2 3	1,844 3 5	432 18 10	
	,, ...	,, ,, ,, ,, 13	6¼	5	4,000 0 0	,,	3,366 6 2	2,247 9 8	1,118 16 6	
	,, ...	,, ,, ,, ,, 15	6½	5.0375	3,000 0 0	,,	2,290 0 0	2,290 0 0	..	
	,, ...	,, ,, ,, ,, 16	6½	5.0375	5,000 0 0	,,	4,665 15 5	1,511 2 11	3,154 12 6	
	Healesville	Healesville Shire .. .. ,, 2	6	5	8,000 0 0	1.4.33	6,215 0 0	665 0 0	5,550 0 0	
	,, ...	,, ,, ... ,, 3	6½	5.0375	2,000 0 0	,,	1,585 0 0	165 0 0	1,420 0 0	
	,, ...	,, ,, ... ,, 4	6½	5.0375	1,500 0 0	,,	1,500 0 0	..	1,500 0 0	
	,, ...	,, ,, ... ,, 7	6½	5.0375	1,500 0 0	,,	1,500 0 0	1,500 0 0	..	
	,, ...	,, ,, ... ,, 9	5¾	5	3,000 0 0	,,	2,728 11 2	206 12 3	2,521 18 11	
	Lilydale	Lilydale Shire .. .. ,, 16	6½	5.0375	3,000 0 0	1.4.25	2,869 12 7	701 11 1	2,168 1 6	
	Mornington ..	Mornington Shire .. ,, 7	6½	5.0375	4,445 0 0	1.8.30	3,195 0 0	1,460 0 0	1,735 0 0	
	,, ..	,, ,, .. ,, 9	6½	5.0375	1,200 0 0	,,	630 0 0	630 0 0	..	
	,, ..	,, ,, .. ,, 11	5¾	5	1,000 0 0	,,	895 16 8	234 9 10	661 6 10	
	Ringwood and Croydon	Lilydale Shire .. .. ,, 11	5	5	2,100 0 0	1.4.25	1,100 0 0	1,100 0 0	..	
	,, ,,	,, ,, ... ,, 13	6	5	1,200 0 0	,,	1,200 0 0	..	1,200 0 0	
	,, ,, ..	,, ,, ... ,, 16	6½	5.0375	2,000 0 0	,,	1,913 1 7	467 13 11	1,445 7 8	
	,, ,, ..	,, ,, ... ,, 17	6	5	4,000 0 0	,,	3,600 0 0	2,200 0 0	1,400 0 0	
	Sorrento and Portsea	Flinders Shire .. .. ,, 3	6	5	3,600 0 0	1.10.27	2,700 0 0	1,800 0 0	900 0 0	
	,, ,, ..	,, ,, ... ,, 4	6½	5.0375	5,000 0 0	,,	4,185 0 0	2,125 0 0	2,060 0 0	
	,, ,, ..	,, ,, ... ,, 5	6	5	3,500 0 0	,,	3,356 10 7	1,103 16 2	2,252 14 5	
					77,645 0 0		65,351 19 5	32,782 5 10	32,569 13 7	32,569 13 7
North Eastern ..	Alexandra	Alexandra Shire .. .. ,, 1	6	5	4,500 0 0	11.4.27	3,832 18 10	3,832 18 10	..	
	Benalla	Benalla Shire .. .. ,, A	6	5	15,000 0 0	1.5.26	15,000 0 0	15,000 0 0	..	
	,, ...	,, ,, ... ,, B	6½	5.0375	3,000 0 0	,,	3,000 0 0	3,000 0 0	..	
	Euroa	Euroa Shire .. .. ,, 3	5	5	600 0 0	20.3.28	311 4 0	311 4 0	..	
	,, ...	,, ,, ... ,, 4	7	5.425	2,000 0 0	,,	967 5 10	967 5 10	..	
	,, ...	,, ,, ... ,, 7	6½	5.0375	1,200 0 0	,,	939 4 0	868 14 4	70 9 8	
	,, ...	,, ,, ... ,, 9	6¼	5	1,500 0 0	,,	1,320 4 0	987 12 1	332 11 11	
	Mansfield	Mansfield Shire .. .. ,, 6	6	5	1,200 0 0	1.6.28	1,200 0 0	..	1,200 0 0	
	,, ...	,, ,, ... ,, 3	4½	4½	500 0 0	,,	500 0 0	..	500 0 0	
	,, ...	,, ,, ... ,, 8	6	5	800 0 0	,,	800 0 0	400 0 0	400 0 0	
	Mooroopna ..	Rodney Shire .. .. ,, 1	5	5	3,000 0 0	1.10.26	2,286 7 8	955 9 6	1,330 18 2	
	Nathalia	Numurkah Shire .. .. ,, 4	4¾	4¾	4,200 0 0	1.10.31	2,600 0 0	800 0 0	1,800 0 0	
	,, ...	,, ,, ... ,, 8	6¼	5	3,500 0 0	,,	2,257 15 5	1,278 16 0	978 19 5	
	Numurkah	,, ,, ... ,, 3	4½	4½	700 0 0	,,	300 0 0	300 0 0	..	
	,, ...	,, ,, ... ,, 5	4¾	4¾	800 0 0	,,	200 0 0	200 0 0	..	
	,, ...	,, ,, ... ,, 7	7	5.425	2,500 0 0	,,	1,922 4 11	407 11 6	1,514 13 5	
	Rutherglen ..	Rutherglen Borough .. ,, 2	4½	4½	3,000 0 0	15.10.26	2,094 3 8	1,093 3 6	1,001 0 2	
	Wahgunyah ..	,, Shire .. ,, 4	6	5	350 0 0	1.2.26	296 1 8	107 18 8	188 3 0	
	Wangaratta ..	Wangaratta Shire .. ,, 8	6½	5.0375	6,500 0 0	12.3.27	6,078 12 8	1,287 3 3	4,791 9 5	
	,, ..	,, ,, .. ,, 9	6	5	1,500 0 0	,,	1,412 2 5	314 8 10	1,097 13 7	
	Yarrawonga ..	Yarrawonga Borough .. ,, 3	4	4	3,500 0 0	1.8.25	2,600 0 0	1,200 0 0	1,400 0 0	
	,, ..	,, ,, .. ,, 4	4½	4½	800 0 0	,,	576 3 8	321 15 3	254 8 5	
	,, ..	,, ,, .. ,, 5	5	5	500 0 0	,,	387 11 1	187 5 5	200 5 8	
	,, ..	,, ,, .. ,, 6	5	5	500 0 0	,,	406 1 8	173 18 0	232 3 8	
					61,650 0 0		51,288 1 6	33,995 5 0	17,292 16 6	17,292 16 6
		Carried forward								

Schedule of Debentures Guaranteed by the State Electricity Commission of Victoria—*continued.*

Branch.	Undertaking.	Details.	Actual Rate.	Rate under Financial Emergency Act.	Original Issue.	Date of Acquisition.	Outstanding at Date of Acquisition.	Redeemed since Date of Acquisition.	Outstanding at 30th June, 1936.	Total Outstanding.
			%	%	£ s. d.		£ s. d.	£ s. d.	£ s. d.	£ s. d.
		COUNTRY—*continued.*								
		Brought forward								
Gippsland	Korumburra ..	Korumburra Shire .. Loan No. 4	4	4	2,500 0 0	1.12.24	2,500 0 0	2,500 0 0	..	
	,, ..	,, ,, .. ,, 5	4	4	700 0 0	,,	700 0 0	700 0 0	..	
	,, ..	,, ,, .. ,, 7	4	4	1,000 0 0	,,	1,000 0 0	..	1,000 0 0	
	,, ..	,, ,, .. ,, 8	5	5	700 0 0	,,	700 0 0	..	700 0 0	
	Maffra	Maffra Shire .. .. ,, 1	4¾	4¾	6,500 0 0	1.9.24	5,660 0 11	1,523 4 4	4,136 16 7	
	,, ...	,, ,, ... ,, 2	5½	5	1,000 0 0	,,	877 5 7	336 16 11	540 8 8	
	Morwell	Morwell Shire .. .. ,, 2	7	5.425	1,500 0 0	1.4.26	1,015 0 0	1,015 0 0	..	
	,, ...	,, ,, ... ,, 3	6	5	500 0 0	,,	265 0 0	265 0 0	..	
					14,400 0 0		12,717 6 6	6,340 1 3	6,377 5 3	6,377 5 3
South-Western ..	Camperdown ..	Hampden Shire .. .. ,, 1	4	4	8,000 0 0	8.1.24	2,600 0 0	1,800 0 0	800 0 0	
	,, ..	,, ,, ... ,, 3	4	4	1,400 0 0	,,	750 0 0	600 0 0	150 0 0	
	Koroit	Koroit Borough .. .. ,, 1	4¼	4¼	6,500 0 0	1.12.28	4,000 0 0	2,000 0 0	2,000 0 0	
	Terang	Hampden Shire .. .. ,, 2	4	4	3,000 0 0	4.3.24	1,600 0 0	1,200 0 0	400 0 0	
	,, ...	,, ,, ... ,, 4	4	4	1,500 0 0	,,	850 0 0	600 0 0	250 0 0	
					20,400 0 0		9,800 0 0	6,200 0 0	3,600 0 0	3,600 0 0
Western Metropolitan ..	Werribee	Werribee Shire .. .. ,, 1	5	5	4,000 0 0	10.4.24	2,200 0 0	2,200 0 0	..	
	,, ...	,, ,, ... ,, 3	4¾	4¾	1,000 0 0	,,	818 1 5	382 10 8	435 10 9	
	,, ...	,, ,, ... ,, 4	5½	5	1,000 0 0	,,	856 16 2	355 12 6	501 3 8	
	,, ...	,, ,, ... ,, 5	6½	5.0375	1,000 0 0	,,	760 0 0	760 0 0	..	
					7,000 0 0		4,634 17 7	3,698 3 2	936 14 5	936 14 5
	Total for Country				226,245 0 0		175,026 16 5	90,065 2 1	84,961 14 4	84,961 14 4
	Total for Metropolis				2,013,769 0 0		1,834,256 14 10	1,834,256 14 10	..	..
	GRAND TOTAL				2,240,014 0 0		2,009,283 11 3	1,924,321 16 11	84,961 14 4	84,961 14 4

APPENDIX No. 2.

STATE ELECTRICITY COMMISSION OF VICTORIA.

OVERHEAD TRANSMISSION LINES.

Description.	Erected during Year ended 30th June, 1936.		Total Erected to 30th June, 1936.	
	Route Miles.	Cable Miles.	Route Miles.	Cable Miles.
132,000-Volt Transmission Lines.				
Yallourn–Yarraville	..	..	110	660
Yallourn–Richmond	..	..	80	240
Metropolitan Electricity Supply.				
22,000-volt Lines	..	..	143·5	430·5
6,600, 7·2, and 4·16 kV.	14·17	44·78	260·77	682·15
Eastern Metropolitan Branch.				
22,000-volt Lines	32·16	88·35	188·192	505·415
6,600-volt Lines	—8·75	—31·97	107·467	271·755
Ballarat Electricity Supply.				
6,600-volt Lines	3·8	11·65	20·4	61·45
Bendigo Electricity Supply.				
22,000-volt Lines	8·14	23·78	17·48	55·32
6,600-volt Lines	—3·48	—10·44	5·62	16·86
Geelong Electricity Supply.				
6,600-volt Lines	4·96	16·06	110·146	376·39
Castlemaine Branch.				
66,000-volt Lines	18·5	55·56	93·2	384·66
22,000-volt Lines	12·784	37·412	70·774	209·852
Gippsland Branch.				
22,000-volt Lines	73·54	188·75	409·44	1,134·12
6,600-volt Lines	—4·1	—12·55	7·6	15·2
North-Eastern Branch.				
66,000-volt Lines	..	..	170·283	686·366
22,000-volt Lines	46·65	130·95	297·9	1,010·3
6,600-volt Lines	..	..	7·59	17·18
South-Western Branch.				
44,000-volt Lines	0·04	0·12	116·24	487·42
22,000-volt Lines	..	..	21·18	63·06
6,600-volt Lines	3·36	6·71	108·18	266·836
Western Metropolitan Branch.				
22,000-volt Lines	3·14	7·66	22·04	64·46
6,600-volt Lines	..	..	4·8	9·5
Yallourn.				
11,000-volt Lines	..	..	1·415	8·49
Yarraville to Geelong.				
66,000 volt Lines	39·34	118·02	39·34	118·02

SUMMARY OF OVERHEAD TRANSMISSION LINES.

Description.	Erected during Year ended 30th June, 1936.		Total Erected to 30th June, 1936.	
	Route Miles.	Cable Miles.	Route Miles.	Cable Miles.
132,000 volts	..	..	190·0	900·0
66,000 volts	57·84	173·58	302·823	1,189·046
44,000 volts	0·04	0·12	116·24	487·420
22,000 volts	176·414	476·902	1,170.506	3,413·557
11,000 volts	..	..	1·415	8·49
6,600 volts	9·96	24·24	632·573	1,717·321
Total	244·254	674·842	2,413·557	7,775·304

UNDERGROUND CABLES.

	Cable Miles Laid during Year ended 30th June, 1936.	Total Cable Miles Laid at 30th June, 1936.
22,000 volts	5·348	110·177
4.16, 6.6, and 7·2 kV.	8·609	397·961
400 volts	0·548	15·968
Pilot and Telephone	5·54	65·48
Supervisory Control	0·787	11·163
Miscellaneous	0·036	13·553
Total	20·868	614·302

APPENDIX No. 3.

STATE ELECTRICITY COMMISSION OF VICTORIA.

NUMBER AND CAPACITY OF SUB-STATIONS AS AT 30th JUNE, 1936.

—	Number.	Total kVA
Terminal Stations	4	224,400
Central Supply Transmission Sub-stations	17	175,750
Distribution Sub-stations at Line Voltage	14	33,800
Transmission and Distribution Transformer Sub-stations.		
Metropolitan Electricity Supply—		
Distribution Transformer Sub-stations	546	134,775
Eastern Metropolitan Branch—		
Distribution Transformer Sub-stations	237	7,022
Ballarat Electricity Supply—		
Distribution Transformer Sub-stations	27	2,750
Bendigo Electricity Supply—		
Transmission Sub-stations	1	7,500
Distribution Transformer Sub-stations	30	5,155
Geelong Electricity Supply—		
Transmission Sub-stations	1	1,500
Distribution Transformer Sub-stations	85	8,632
Castlemaine Branch—		
Distribution Transformer Sub-stations	49	1,835
Gippsland Branch—		
Transmission Sub-stations	1	200
Distribution Transformer Sub-stations	206	6,561
North-Eastern Branch—		
Transmission Sub-stations	8	12,500
Distribution Transformer Sub-stations	110	9,900
South-Western Branch—		
Transmission Sub-stations	5	7,025
Distribution Transformer Sub-stations	75	4,237
Sugarloaf-Rubicon Area—		
Distribution Transformer Sub-stations	2	450
Town of Yallourn, &c.—		
Distribution Transformer Sub-stations	37	7,975
Western Metropolitan Branch—		
Distribution Transformer Sub-stations	17	1,080
Total Erected	1,472	653,047

APPENDIX No. 4.

ENERGY MADE AVAILABLE FROM ALL SOURCES FOR USE IN THE METROPOLITAN AREA FOR ALL PURPOSES.

—	State Electricity Commission (Table 3).	Melbourne City Council.	Melbourne Electric Supply.	Totals for General Purposes.	Railway Purposes. Newport "A" Power Station.	Grand Total for all Purposes.
	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.
1925–26	157,035,322	15,600,000	80,616,400	253,251,722	177,695,192	430,946,914
1926–27	235,010,590	12,240,000	52,375,000	299,625,590	178,126,299	477,751,889
1927–28	302,839,997	14,071,976	4,380,550	321,292,523	176,135,807	497,428,330
1928–29	335,721,263	15,769,915	..	351,491,178	173,020,880	524,512,058
1929–30	369,232,691	14,396,740	..	383,629,431	175,276,998	558,906,429
1930–31	350,633,126	13,927,480	..	364,560,606	164,871,512	529,432,118
1931–32	377,334,359	7,984,370	..	385,318,729	155,608,442	540,927,171
1932–33	399,449,114	12,081,000	..	411,530,114	160,209,177	571,739,291
1933–34	440,557,929	17,947,700	..	458,505,629	162,345,834	620,851,463
1934–35	479,867,832	35,305,100	..	515,172,932	169,642,201	684,815,133
1935–36	529,869,583	30,296,900	..	560,166,483	171,252,790	731,419,273

APPENDIX No. 5.

STATE OF VICTORIA.

TARIFFS AND STATISTICAL DATA OF ELECTRICITY SUPPLY UNDERTAKINGS (AS AT 1st OCTOBER, 1936).

METROPOLITAN AREA.

TERRITORIES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA.

District.	Population.	System of Supply.	Number of Consumers.	Tariffs.
Brighton	650,921	A.C., 1 ph., 200–400 v. ..	160,851 (Excluding town of Broadmeadows and Deer Park)	See Standard Metropolitan Tariffs
Broadmeadows (Fawkner and Glenroy only)		A.C., 3 ph., 230–400 v. ..		
Camberwell		A.C., 1 ph., 200–400 v. ..		
Caulfield		,, ,, .. & 3 ph., 230–400 v. ..		
Collingwood		A.C. 3 ph., 230–400 v. ..		
Essendon		,, ,, ..		
Flemington		,, ,, ..		
Fitzroy		,, ,, ..		
Hawthorn		A.C., 1 ph., 200–400 v. ..		
Kew		,, ,, ..		
Mentone		,, ,, ..		
Malvern		,, ,, .. & 3 ph., 230–400 v. ..		
Moorabbin		A.C., 1 ph., 200–400 v. .. & 3 ph., 230–400 v. ..		
Mordialloc		A.C., 1 ph., 200–400 v. ..		
Oakleigh		A.C., 3 ph., 230–400 v. ..		
Prahran		A.C., 1 ph., 200–400 v. .. & 3 ph., 230–400 v. ..		
Richmond		A.C., 3 ph., 230–400 v. ..		
St. Kilda		A.C., 1 ph., 200–400 v. .. & 3 ph., 230–400 v. ..		
Sandringham		A.C., 1 ph., 200–400 v. ..		
South Melbourne		A.C., 1 ph., 200–400 v. .. & 3 ph., 230–400 v. ..		
Sunshine		A.C., 3 ph., 230–400 v. ..		

TERRITORIES SERVED BY MUNICIPAL UNDERTAKINGS PURCHASING BULK ENERGY FROM STATE ELECTRICITY COMMISSION OF VICTORIA.

District.	Population.	Supply Authority.	System of Supply.	Number of Consumers.	Tariffs.
City of Melbourne	90,000	Melbourne City Council ..	{D.C., 230–460 v. A.C., 3 ph., 230–400 v.}	29,300	The Commission's Standard Metropolitan Tariffs (see statement following) apply in all these centres. The Melbourne City Council has the Standard Two-part Residential Tariff in operation, but its power tariffs are :—Block Rate : First 500 kilowatt-hours in any one month, 1¾d. per kilowatt-hour ; next 500 kilowatt-hours 1d. ; next 100,000 kilowatt-hours 0·8d. ; all further consumption in any one month, 0·75d. per kilowatt-hour. Maximum Demand Rate : 2d. per kilowatt-hour for the quantity of electricity equivalent to 90 hours' use per month of consumers' maximum demand, and 0·3d. per kilowatt-hour for all kilowatt-hours over that quantity.
Box Hill, Blackburn and Mitcham Shire ..	22,098	Box Hill City Council ..	A.C., 3 ph., 230–400 v.	5,755	
Brunswick ..	54,359	Brunswick City Council ..	,, ,, ..	13,206	
Coburg ..	38,890	Coburg City Council ..	,, ,, ..	9,780	
Footscray ..	46,590	Footscray City Council ..	,, ,, ..	12,094	
Heidelberg ..	25,050	Heidelberg City Council	,, ,, ..	6,362	
Northcote ..	42,670	Northcote City Council ..	,, ,, ..	10,739	
Port Melbourne	12,910	Port Melbourne City Council	,, ,, ..	2,745	
Preston ..	33,750	Preston City Council ..	,, ,, ..	7,750	
Williamstown ..	22,290	Williamstown City Council	,, ,, ..	6,191	

APPENDIX No. 5—*continued.*

STANDARD METROPOLITAN TARIFFS (AS AT 1st OCTOBER, 1936).

COMMERCIAL AND INDUSTRIAL SUPPLIES.

Lighting—

Tariff "A/45"—(Block Rate):—

For electricity consumed between two consecutive monthly meter readings—

Up to and including 200 kilowatt-hours	4·5d. per kilowatt-hour.
For all further consumption in the same period	3d. „ „

Meter Rental.—See below.

Power and Heating—

Tariff "C/20"—

For electricity consumed between two consecutive monthly meter readings—

Option I.—(Block Rate):—

Up to and including	500 kilowatt-hours	2d. per kilowatt-hour.
For the next	4,500 „	1·25d. „ „
For the next	20,000 „	0·9d. „ „
For the next	100,000 „	0·8d. „ „
For all further consumption in the same period		0·75d. „ „

Option II.—Two-rate (Prescribed Hours):—

For electricity consumed between the hours of 7 a.m. and 11 p.m.—Block Rates as under Option I. above.

For electricity consumed between the hours of 11 p.m. and 7 a.m. 0·3d. per kilowatt-hour.

A consumer selecting Option II. shall be deemed to have agreed to being charged accordingly for a period of not less than twelve consecutive calendar months.

The Commission reserves the right to—

Alter the times between which the rate of 0·3d. per kilowatt-hour applies to any other spread of hours convenient to it for the consumer or locality concerned.

Require any consumer who takes a large proportion or all of his power or heating consumption under Option II. to enter into a special agreement including conditions deemed appropriate by the Commission to the particular circumstances.

Meter Rental.—See below.

All Purposes—

Tariff "D/45"—

For electricity consumed for all purposes (Power, Heating, and Lighting), between two consecutive monthly meter readings—

Option I.—(Block Rate):—

Up to and including	200 kilowatt-hours	4·5d. per kilowatt-hour
For the next	800 „	3d. „ „
For the next	4,000 „	1·9d. „ „
For the next	20,000 „	0·9d. „ „
For the next	100,000 „	0·8d. „ „
For all further consumption in the same period		0·75d. „ „

Option II.—Two-rate (Prescribed Hours):—

For electricity consumed between the hours of 11 p.m. and 7 a.m. 0·3d. per kilowatt-hour.

For electricity consumed during other portions of the day—Block Rates as set forth under Option I. above.

A consumer selecting this tariff shall be deemed to have agreed to being charged accordingly for a period of not less than twelve consecutive calendar months, and to pay for at least 1,500 kilowatt-hours consumption per month between the hours of 7 a.m. and 11 p.m.

The Commission reserves the right to—

Alter the times between which the rate of 0·3d. per kilowatt-hour applies to any other spread of hours convenient to it for the consumer or locality concerned.

Require any consumer who takes a large proportion or all of his requirements under Option II. to enter into a special agreement including conditions deemed appropriate by the Commission to the particular circumstances.

Meter Rental.—See below.

Cooking—

Tariff "F/10"—

Applicable to cafes, restaurants, cake and other prepared food shops and the like where an electric range, electric oven, or like device of not less than 3 kilowatt capacity is used.

For electricity consumed in connexion with electric cooking 1d. per kilowatt-hour.

Meter Rental.—See below.

RESIDENTIAL SUPPLY.

Lighting, Power, Heating, and Cooking—

Two-part Tariff "G"—(Service Charge plus Energy Charge)—

Applicable to electricity supply to premises such as:—

(*a*) Private houses, flats and separately metered dwellings of a like nature associated with shops, schools, office buildings, and factories.
Invoices rendered quarterly.

(*b*) Boarding and apartment houses, hotels, hospitals, convents, boarding schools, residential clubs and institutions.
Invoices rendered monthly.

Service Charge—

1s. per room per month.

5s. per month for each electrically-lighted tennis court, bowling green or croquet lawn.

Energy Charge—

1d. per kilowatt-hour.

Advance Service Charge—

An amount equivalent to the Service Charge for one quarter for (*a*) supplies, and one month for (*b*) supplies must be paid in advance.

Note—

Where the amount of the invoice is more than the declared minimum charge referred to below, no consumer will be charged under this tariff at an overall rate (service and energy charges combined) in excess of 6d. per kilowatt-hour.

Assessment of Premises for Service Charge—

An assessable room is any room (whether lighted by electricity or not, and other than those exempted below) erected for use as a dining-room, kitchen, bedroom, dressing-room, sun-room, ballroom, lounge, servery, library, billiard-room, sleepout, dormitory, ward, laboratory, dispensary, operating theatre, class-room, gymnasium or the like, or any enclosed verandah or vestibule used for such purposes.

Each room assessed is subject to service charge on the basis that every 350 square feet of floor area or part thereof constitutes one room, but the maximum service charge in respect of any one room is 3s. per month.

The following are normally exempt in assessing service charge:—Passages, pantries, lobbies, bathrooms, lavatories, cellars, entrance halls, porches, garages, private workshops, sculleries and wash-houses where not combined with kitchens, verandahs and vestibules, unless such verandahs when enclosed or vestibules are used for the purposes stated above.

APPENDIX No. 5—*continued.*

STANDARD METROPOLITAN TARIFFS—*continued.*

COMMERCIAL, INDUSTRIAL, AND RESIDENTIAL SUPPLIES.

Water Heating—

Tariff "I/375" (Night Rate)—

For electricity consumed through a separate meter by heating elements which are switched on only between 11 p.m. and 7 a.m. (11 a.m. on Sundays) by means of a time-switch—0·375d. per kilowatt-hour.

The Commission reserves the right to—

Vary the times between which the prescribed hour service is given.
Require consumers to enter into agreements including conditions deemed appropriate by the Commission in special cases.

No Meter or Time-Switch Rental.

Boosting Elements—

Electricity consumed by boosting elements will be charged for according to meter registrations at the appropriate rate for the class of supply concerned.

Meter Rental—

Tariff "A/45" (Block Rate) Tariff "C/20" or "D/45" (Option I.—Block Rate), and Tariff "F/10."	For all 200 and 230 volt two-wire meters, 6d. per month per meter. For all 200 and 230 volt three-wire or three-phase meters and all 400 volt meters, 1s. per month per meter.
Tariff "C 20" or "D 45" (Option II.—Two-Rate)	For all Two-Rate meters, 5s. per month per meter.

Minimum Charge—

2s. 6d. per month, inclusive of meter rent.

PROVINCIAL CITIES SERVED BY THE STATE ELECTRICITY COMMISSION OF VICTORIA.

BALLARAT ELECTRICITY SUPPLY.

District.	Population.	System of Supply.	No. of Consumers.
City of Ballarat Borough of Sebastopol Ballarat Shire (portion only)	39,500	A.C., 3-ph., 230–400 v. D.C., 3-wire, 220–440 v. A.C., 3-ph., 230–400 v. A.C., 3-ph., 230–400 v.	7,359

TARIFFS AS AT 1ST OCTOBER, 1936.

COMMERCIAL AND INDUSTRIAL SUPPLIES.

Lighting—

Commercial Lighting Block Tariff "A/65"—

For electricity consumed between two consecutive monthly meter readings—

Up to and including 200 kilowatt-hours	6½d per kilowatt-hour
For the next 300 kilowatt-hours	5d. ,, ,,
For all further consumption in the same period	4d. ,, ,,

Meter Rental.—See below.

Power and Heating—

Tariff "C"—

Option I.—(Block Rate)—

For electricity consumed between two consecutive monthly meter readings—

Up to and including 24 kilowatt-hours	3½d. per kilowatt-hour.
For the next 476 kilowatt-hours	2⅞d. ,, ,,
For the next 4,500 kilowatt-hours	1¾d. ,, ,,
For the next 10,000 kilowatt-hours	1⅛d. ,, ,,
For all further consumption in the same period	0·9d. ,, ,,

Option II.—Two-rate (prescribed hours)—

For electricity consumed between the hours of 10.30 p.m. and 6.30 a.m. .. .. 0.7d. per kilowatt-hour.
For electricity consumed during other portions of the day—Block Rates as set forth under Option I. above will apply.
Any consumer applying to be charged under Option II. shall be deemed to have agreed to his being charged accordingly for a period of not less than twelve consecutive calendar months.

The Commission reserves the right to—
Alter the times between which the rate of 0·7d. per kilowatt-hour applies to any other spread of hours convenient to it for the consumer or locality concerned;
Require any consumer who takes a large proportion or all of his power or heating consumption under Option II. to enter into a special agreement including conditions deemed appropriate by the Commission to the particular circumstances.

Meter Rental—See below.

Commercial Cooking—

Flat Tariff, "F/15"—

Applicable to cafes, restaurants, cake and other prepared food shops, and the like, and to schools for demonstration purposes, where an electric range, oven, or like device of not less than three kilowatt capacity is used. For electricity consumed in connexion with electric cooking—1½d per kilowatt-hour.

Meter Rental—See below.

APPENDIX No. 5—*continued.*

PROVINCIAL CITIES SERVED BY THE STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

BALLARAT ELECTRICITY SUPPLY—*continued.*

RESIDENTIAL SUPPLY.

Lighting, Power, Heating, and Cooking—

Two-part Tariff "G" 156 (Service Charge plus Energy Charge)—

Applicable to electricity supply to premises such as:—

(*a*) Private houses, flats, and separately metered dwellings of a like nature associated with shops, schools, office buildings, and factories.
Invoices rendered quarterly.

(*b*) Boarding and apartment houses, hotels, hospitals, convents, boarding schools, residential clubs, and institutions.
Invoices rendered monthly.

Service Charge—

1s. 3d. per room per month.

6s. per month for each electrically lighted tennis court, bowling green, or croquet lawn.

Energy Charge—

1½d. per kilowatt-hour.

Advance Service Charge—

An amount equivalent to the Service Charge for one quarter for (*a*) supplies and one month for (*b*) supplies must be paid in advance.

Note.—Where the amount of the invoice is more than the declared minimum charge referred to below, no consumer will be charged under this tariff at an overall rate (service and energy charges combined) in excess of 9d. per kilowatt-hour.

Assessment of premises for Service Charge—

An assessable room is any room (whether lighted by electricity or not and other than those exempted below) erected for use, as a dining room, kitchen, bedroom, dressing room, sun-room, ballroom, lounge, servery, library, billiard room, sleepout dormitory, ward, laboratory, dispensary, operating theatre, class room, gymnasium, or the like, or any enclosed verandah or vestibule used for such purposes.

Each room assessed is subject to service charge on the basis that every 350 square feet of floor area, or part thereof, constitutes one room, but the maximum service charge in respect of any one room is 3s. 9d. per month.

The following are normally exempt in assessing service charge:—Passages, pantries, lobbies, bathrooms, lavatories, cellars, entrance halls, porches, garages, private workshops, sculleries and washhouses where not combined with kitchens, verandahs and vestibules, unless such verandahs when enclosed or vestibules are used for the purposes stated above.

COMMERCIAL, INDUSTRIAL, AND RESIDENTIAL SUPPLIES.

Water Heating—

Tariff "H/60" (Continuous Rate)—

For each 100 watts rating or part thereof of heating elements continuously operated throughout the year—

A fixed charge, including electricity, of 5s. per month payable quarterly in advance.

Any consumer applying to be charged under this tariff shall be deemed to have agreed to his being charged for the wattage specified in his application for supply for a period of not less than twelve consecutive calendar months.

Boosting Elements—

Electricity consumed by boosting elements will be charged for according to meter registrations at the appropriate rate for the class of supply concerned.

Meter Rentals—

Applicable to Tariffs "A/65," "C," and "F/15"—

For all 220 and 230 volt two-wire meters	6d. per month per meter.
For all 220 and 230 volt three-wire or three-phase meters and 400 volt meters	1s. per month per meter.
For all lighting maximum demand indicators	1s. per month per indicator.
For all two-rate meters	5s. per month per meter.

Minimum Charge—

The minimum charge is 3s. per month, inclusive of meter rent.

BENDIGO ELECTRICITY SUPPLY.

District.	Population.	System of Supply.	No. of Consumers
City of Bendigo	31,324	A.C., 3 ph., 230–400 v. D.C., 3 wire, 220–440 v.	6,829
Strathfieldsaye (portion only)		A.C., 3 ph., 230–400 v.	
Marong Shire (portion only) including Kangaroo Flat		A.C., 3 ph., 230–400 v.	
Eaglehawk		A.C., 3 ph., 230–400 v. D.C., 3 wire, 220–440 v.	

TARIFFS AS AT 1ST OCTOBER, 1936.

COMMERCIAL AND INDUSTRIAL SUPPLIES.

Lighting—

Commercial Lighting Block Tariff "A/65"

For electricity consumed between two consecutive monthly meter readings—

Up to and including 200 kilowatt-hours	6½d per kilowatt-hour.
For the next 300 kilowatt-hours	5d „ „
For all further consumption in the same period	4d „ „

Meter Rental.—See below.

APPENDIX No. 5—*continued*,

PROVINCIAL CITIES SERVED BY THE STATE ELECTRICITY COMMISSION OF VICTORIA—*continued*.

BENDIGO ELECTRICITY SUPPLY—*continued*.

Power and Heating—

Tariff "C"—

Option I.—(Block Rate)—

For electricity consumed between two consecutive monthly meter readings—

Up to and including 24 kilowatt-hours	3½d. per kilowatt-hour.
For the next 476 kilowatt-hours	2½d. „ „
For the next 4,500 kilowatt-hours	1¾d. „ „
For the next 10,000 kilowatt-hours	1⅛d. „ „
For all further consumption in the same period	0·9d. „ „

Option II.—Two-rate (Prescribed Hours)—

For electricity consumed between the hours of 10.30 p.m. and 6.30 a.m. .. 0·35d. per kilowatt-hour.

For electricity consumed during other portions of the day—Block Rates as set forth under Option I. above will apply.

A consumer selecting Option II. shall be deemed to have agreed to being charged accordingly for a period of not less than twelve consecutive calendar months.

The Commission reserves the right to—

Alter the times between which the rate of 0·35d. per kilowatt-hour applies to any other spread of hours convenient to it for the consumer or locality concerned;

Require any consumer who takes a large proportion or all of his power or heating consumption under Option II. to enter into a special agreement including conditions deemed appropriate by the Commission to the particular circumstances

Meter Rental.—See below.

Commercial Cooking—

Flat Tariff, F/15—

Applicable to cafes, restaurants, cake and other prepared food shops and the like, and to schools for demonstration purposes, where an electric range, oven, or like device of not less than 3 kilowatt capacity is used. For electricity consumed in connexion with electric cooking .. 1½d. per kilowatt-hour.

Meter Rental.—See below.

RESIDENTIAL SUPPLY.

Lighting, Power, Heating, and Cooking—

Two-part Tariff "G" 156 (Service Charge plus Energy Charge)—

Applicable to electricity supply to premises such as—

(*a*) Private houses, flats, and separately metered dwellings of a like nature associated with shops, schools, office buildings, and factories.
Invoices rendered quarterly.

(*b*) Boarding and apartment houses, hotels, hospitals, convents, boarding-schools, residential clubs, and institutions.
Invoices rendered monthly.

Service Charge—

1s. 3d. per room per month.

6s. per month for each electrically lighted tennis-court, bowling-green, or croquet lawn.

Energy Charge—

1½d. per kilowatt-hour.

Advance Service Charge—

An amount equivalent to the Service Charge for one quarter for (*a*) supplies and one month for (*b*) supplies must be paid in advance.

Note.—Where the amount of the invoice is more than the declared minimum charge referred to below, no consumer will be charged under this tariff at an overall rate (service and energy charges combined) in excess of 9d. per kilowatt-hour.

Assessment of Premises for Service Charge—

An assessable room is any room (whether lighted by electricity or not and other than those exempted below) erected for use as a dining-room, kitchen, bedroom, dressing-room, sun-room, ballroom, lounge, servery, library, billiard-room, sleepout, dormitory, ward, laboratory, dispensary, operating theatre, class-room, gymnasium or the like, or any enclosed verandah or vestibule used for such purposes.

Each room assessed is subject to service charge on the basis that every 350 square feet of floor area or part thereof constitutes one room, but the maximum service charge in respect of any one room is 3s. 9d. per month.

The following are normally exempt in assessing service charge:—Passages, pantries, lobbies, bathrooms, lavatories, cellars, entrance halls, porches, garages, private workshops, sculleries and washhouses where not combined with kitchens, verandahs and vestibules, unless such verandahs when enclosed or vestibules are used for the purposes stated above.

COMMERCIAL, INDUSTRIAL, AND RESIDENTIAL SUPPLIES.

Water Heating—

Night Water Heating Tariff "I/50"—

For electricity consumed through a separate meter by heating elements which are switched on only between 10.30 p.m. and 6.30 a.m. (10.30 a.m. on Sundays) by means of a time-switch.. .. 0·5d. per kilowatt-hour.

The Commission reserves the right to—

Vary the times between which the prescribed hour service is given.

Require consumers to enter into agreements including conditions deemed appropriate by the Commission in special cases.

No meter or time switch rental.

Boosting Elements—

Electricity consumed by boosting elements will be charged for according to meter registrations, and at the appropriate rate for the class of supply concerned.

Meter Rental—

Applicable to Tariffs "A/65," "C," and "F/15"—

For all 220 and 230 volt two-wire meters	6d. per month per meter.
For all 220 and 230 volt three-wire or three-phase meters and 400 volt meters	1s. „ „
For all lighting maximum demand indicators	1s. per month per indicator.
For all two-rate meters	5s. per month per meter.

Minimum Charge—

The minimum charge is 3s. per month, inclusive of meter rent.

APPENDIX No. 5—*continued.*

PROVINCIAL CITIES SERVED BY THE STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

GEELONG ELECTRICITY SUPPLY.

District.	Population.	System of Supply.	No. of Consumers.
City of Geelong	45,000	A.C., 3 ph., 230–400 v. D.C., 3 wire, 220–440 v.	10,333 (excluding Torquay and Bellarine Peninsula).
City of West Geelong		A.C., 3 ph., 230–400 v.	
Newtown and Chilwell		" "	
Corio (Portion of Shire only)		" "	
South Barwon (Portion of Shire only) ..		" "	
Bellarine (portion of Shire only)		" "	

TARIFFS AS AT 1ST OCTOBER, 1936.

COMMERCIAL AND INDUSTRIAL SUPPLIES.

Lighting—

Tariff "A/55"—(Block Rate)—

For electricity consumed between two consecutive monthly meter readings—

Up to and including 500 kilowatt-hours	5½d. per kilowatt-hour.
For all further consumption in the same period	3½d. " "

Meter Rental.—See below.

Power and Heating—

Tariff "C"—

Option I.—(Block Rate)—

For electricity consumed between two consecutive monthly meter readings—

Up to and including 500 kilowatt-hours	2·25d. per kilowatt-hour.
For the next 4,500 kilowatt-hours	1·65d. " "
For the next 25,000 kilowatt-hours	1·0d. " "
For the next 100,000 kilowatt-hours..	0·8d. " "
For all further consumption in the same period	0·75d. " "

Option II.—Two-rate (Prescribed Hours)—

For electricity consumed between the hours of 10.30 p.m. and 6.30 a.m. .. .. .. 0·35d. per kilowatt-hour.

For electricity consumed during other portions of the day—Block Rates as set forth under Option I. above.

Any Consumer applying to be charged under Option II. shall be deemed to have agreed to his being charged accordingly for a period of not less than twelve consecutive calendar months.

The Commission reserves the right to—

Alter the times between which the rate of 0·35d. per kilowatt-hour applies to any other spread of hours convenient to it for the consumer or locality concerned.

Require any consumer who takes a large proportion or all of his power or heating consumption under Option II. to enter into a special agreement including conditions deemed appropriate by the Commission to the particular circumstances.

Meter Rental.—See below.

All Purposes—

Tariff "D"—

Option I.—(Block Rate)—

For electricity consumed for all purposes (power, heating, and lighting) between two consecutive monthly meter readings:—

Up to and including 500 kilowatt-hours	5·5d. per kilowatt-hour.
For the next 1,000 kilowatt-hours	3·5d. " "
For the next 3,500 kilowatt-hours	2·25d. " "
For the next 25,000 kilowatt-hours	1·0d. " "
For the next 100,000 kilowatt-hours..	0·8d. " "
For all further consumption in the same period	0·75d. " "

Option II.—Two-rate (Prescribed Hours)—

For electricity consumed between the hours of 10.30 p.m. and 6.30 a.m. .. .. .. 0·35d. per kilowatt-hour.

For electricity consumed during other portions of the day—Block Rates as set forth under Option I. above.

Any person applying to take supply under this tariff shall agree to do so for a period of at least twelve consecutive calendar months, and shall agree to pay for at least 1,500 kilowatt-hours' consumption per month between the hours of 6.30 a.m. and 10.30 p.m.

The Commission reserves the right to—

Alter the time between which the rate of 0·35d. per kilowatt-hour applies to any other spread of hours convenient to it for the consumer or locality concerned.

Require any consumer who takes a large proportion or all of his requirements under Option II. to enter into a special agreement, including conditions deemed appropriate by the Commission to the particular circumstances.

Meter Rental.—See below.

Cooking—

Tariff, "F/15"—

Applicable to cafes, restaurants, cake and other prepared food shops and the like, and to schools for demonstration purposes where an electric range, electric oven, or like device of not less than 3 kilowatt capacity is used.

For electricity consumed in connexion with electric cooking	1½d. per kilowatt-hour.

Meter Rental.—See below.

APPENDIX No. 5—*continued.*

GEELONG ELECTRICITY SUPPLY—*continued.*

RESIDENTIAL SUPPLY.

Lighting, Power, Heating and Cooking—

Two-part Tariff "G" 156 (Service Charge plus Energy Charge)—

Applicable to electricity supply to premises such as:—

(*a*) Private houses, flats and separately metered dwellings of a like nature associated with shops, schools, office buildings, and factories.

Invoices rendered quarterly.

(*b*) Boarding and apartment houses, hotels, hospitals, convents, boarding schools, residential clubs, and institutions.

Invoices rendered monthly.

Service Charge—

1s. 3d. per room per month.

6s. per month for each electrically lighted tennis court, bowling green or croquet lawn.

Energy Charge—

1½d. per kilowatt-hour.

Advance Service Charge—

An amount equivalent to the Service Charge for one quarter for (*a*) supplies and one month for (*b*) supplies must be paid in advances

Note.—Where the amount of the invoice is more than the declared minimum charge referred to below, no consumer will be charged under this tariff at an overall rate (service and energy charges combined) in excess of 9d. per kilowatt-hour.

Assessment of premises for Service Charge—

An assessable room is any room (whether lighted by electricity or not and other than those exempted below) erected for use as a dining-room, kitchen, bedroom, dressing-room, sun-room, ballroom, lounge, servery, library, billiard-room, sleepout, dormitory, ward, laboratory, dispensary, operating theatre, classroom, gymnasium or the like, or any enclosed verandah or vestibule used for such purposes.

Each room assessed is subject to service charge on the basis that every 350 square feet of floor area or part thereof constitutes one room, but the maximum service charge in respect of any one room is 3s. 9d. per month.

The following are normally exempt in assessing service charge:—Passages, pantries, lobbies, bathrooms, lavatories, cellars, entrance halls, porches, garages, private workshops, sculleries and washhouses where not combined with kitchens, verandahs, and vestibules, unless such verandahs when enclosed or vestibules are used for the purposes stated above.

COMMERCIAL, INDUSTRIAL, AND RESIDENTIAL SUPPLIES.

Water Heating—

Tariff "I/50"—(Night Rate)—

For electricity consumed through a separate meter by heating elements which are switched on only between 10.30 p.m. and 6.30 a.m. (10.30 a.m. on Sundays) by means of a time-switch .. .. 0·5d. per kilowatt-hour.

The Commission reserves the right to—

Vary the times between which the prescribed hour service is given.

Require consumers to enter into agreements including conditions deemed appropriate by the Commission in special cases.

No Meter or Time-switch Rental.

Boosting Elements—

Electricity consumed by boosting elements will be charged for according to meter registrations and at the appropriate rate for the class of supply concerned.

Meter Rental—

Tariff "A/55" (Block Rate).

Tariff "C" or "D" (Option I.—Block Rate) and

Tariff "F/15"—

For all 220 and 230 volt two-wire meters .. .. 6d. per month per meter.

For all 220 and 230 volt three-wire or three-phase meters and all 400 volt meters .. .. .. 1s. per month per meter.

Tariff "C" or "D" (Option II.—Two-rate)—

For all Two-Rate Meters .. .. 5s. per month per meter.

Minimum Charge—

3s. per month inclusive of meter rent.

APPENDIX No. 5—*continued.*

COUNTRY CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA.

Centre.	Branch.	Population.	System of Supply Single-phase 230/460-V. Three-phase 230/400-V.	Number of Consumers.	Residential Two-part Tariff.		Industrial Power and Heating (Two-part Tariff).				(*c*) Commercial Cooking Flat Tariff.	(*d*) Commercial Lighting Block Tariff.	(*e*) Commercial Power Flat Tariff.	(*f*) Night Water Heating Tariff.
							(*a*) Option I.		(*b*) Option II.					
					Service Charge per Room per Month.	Charge per kWh.	Service Charge per H.P. per Month 1–50.	Charge per kWh.	Service Charge per H.P. per Month as under (*a*).			Commencing at—		
									Charge per kWh.					
									During Prescribed Hours.	During other Hours.	Charge per kWh.	Charge per kWh.	Charge per kWh.	Charge per kWh.
					s. *d.*	*d.*	*s.* *d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*
Alexandra ..	N/E	850	A.C., 3 ph.	233	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Alfredton ..	Ball. E.S.	(See Ballarat—under Provincial Cities)												
Allansford ..	S/W	310	A.C., 3 ph. and 1 ph.	38	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Altona ..	W/M	2,000	A.C., 1 ph.	349	1 4	1½	5 6	1	0·35	1	1½	8½	4½	0·5
Alvie ..	S/W	125	A.C., 1 ph.	27	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Arundel ..	C'maine	(See Keilor)												
Baddaginnie ..	N/E	80	A.C., 1 ph.	6	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Bairnsdale ..	Gipps.	4,420	A.C., 3 ph. and 1 ph.	981	1 3	1½	5 0	1	0·35	1	1½	7½	4	0·5
Ballarat East ..	Ball. E.S.	(See Ballarat—under Provincial Cities)												
Ballarat North	Ball. E.S.	(See Ballarat—under Provincial Cities)												
Barnawartha ..	N/E	240	A.C., 1 ph.	24	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Barwon Heads	G.E.S.	300	A.C., 1 ph.	176	1 6	1½	6 0	1	0·35	1	1½	9½	5½	0·5
Bayles ..	Gipps.	(See Koo-wee-rup)												
Bayswater ..	E/M	330	A.C., 1 ph.	115	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Beaconsfield ..	E/M	225	A.C., 1 ph.	30	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Beeac ..	S/W	466	A.C., 1 ph.	102	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Belgrave ..	E/M	1,600	A.C., 3 ph.	587	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Belmont ..	G.E.S.	(See Geelong—under Provincial Cities)												
Bena ..	Gipps.	200	A.C., 3 ph. and 1 ph.	37	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Benalla ..	N/E	4,000	A.C., 3 ph.	914	1 3	1½	5 0	1	0·35	1	1½	7½	5	0·5
Berwick ..	E/M	920	A.C., 1 ph.	125	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Birregurra ..	S/W	448	A.C., 1 ph.	98	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Boolarra ..	Gipps.	300	A.C., 3 ph. and 1 ph.	58	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Boronia ..	E/M	340	A.C., 1 ph.	89	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Bostock's Creek	S/W	50	A.C., 1 ph.	7	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Bowser ..	N/E	..	A.C., 3 ph.	1	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Braeside ..	E/M	25	A.C., 1 ph.	3	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Briar Hill ..	E/M	270	A.C., 1 ph.	78	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Broadmeadows	M.E.S.	250	A.C., 1 ph.	16	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Brown Hill ..	Ball. E.S.	(See Ballarat—under Provincial Cities)												
Bruthen ..	Gipps.	580	A.C., 1 ph.	101	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Bullock Swamp	S/W	45	A.C., 1 ph.	9	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Buln Buln ..	Gipps.	(See Neerim)												
Bundoora ..	E/M	50	A.C., 1 ph.	11	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Bunyip ..	Gipps.	390	A.C., 1 ph.	65	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Burramine ..	N/E	..	A.C., 3 ph.	4	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Caldermeade ..	Gipps.	(See Lang Lang)*												
Camperdown ..	S/W	3,000	A.C., 3 ph.	677	1 3	1½	5 0	1	0·35	1	1½	7½	5	0·5
Camperdown Rural	S/W	420	A.C., 1 ph.	13	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Canadian ..	Ball. E.S.	(See Ballarat—under Provincial Cities)												
Castlemaine ..	C'maine	5,200	A.C., 3 ph. and 1 ph.	927	1 3	1½	5 0	1	0·35	1	1½	7½	5	0·5
Chiltern ..	N/E	1,500	A.C., 3 ph.	128	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Chilwell ..	G.E.S.	(See Geelong—under Provincial Cities)												
Clayton ..	E/M	820	A.C., 1 ph.	91	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Clematis ..	E/M	40	A.C., 1 ph.	7	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Cloverlea ..	Gipps.	(See Darnum)*												
Cobden ..	S/W	800	A.C., 3 ph.	173	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Cobram ..	N/E	850	A.C., 3 ph.	176	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Colac ..	S/W	5,800	A.C., 3 ph. and 1 ph.	1,300	1 3	1½	5 0	1	0·35	1	1½	7½	5	0·5
Colac Rural ..	S/W	805	A.C., 3 ph. and 1 ph.	49	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Coldstream ..	E/M	40	A.C., 1 ph.	17	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Congupna ..	N/E	..	A.C., 3 ph.	2	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Coragulac ..	S/W	100	A.C., 1 ph.	14	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Cora Lynn ..	Gipps.	(See Koo-wee-rup)												
Cororooke ..	S/W	372	A.C., 3 ph.	52	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Cowwarr ..	Gipps.	280	A.C., 3 ph. and 1 ph.	68	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Cranbourne ..	E/M	590	A.C., 1 ph.	77	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5

Appendix No. 5—*continued.*

COUNTRY CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Centre.	Branch.	Population.	System of Supply Single-phase 230/460-V. Three-phase 230/400-V.	Number of Consumers.	Residential Two-part Tariff.		Industrial Power and Heating (Two-part Tariff).				(*c*) Commercial Cooking Flat Tariff.	(*d*) Commercial Lighting Block Tariff.	(*e*) Commercial Power Flat Tariff.	(*f*) Night Water Heating Tariff.
							(*a*) Option I.		(*b*) Option II.					
					Service Charge per Room per Month.	Charge per kWh.	Service Charge per H.P. per Month 1–50.	Charge per kWh.	Service Charge per H.P. per Month as under (*a*). Charge per kWh. During Prescribed Hours.	Service Charge per H.P. per Month as under (*a*). Charge per kWh. During other Hours.	Charge per kWh.	Commencing at— Charge per kWh.	Charge per kWh.	Charge per kWh.
					s. d.	*d.*	*s. d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*
Crib Point ..	E/M	1,505	A.C., 1 ph.	136	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Croydon ..	E/M	2,005	A.C., 3 ph. and 1 ph.	574	1 0	1¼	5 0	1	0·35	1	1½	7	3	0·5
Dandenong ..	E/M	5,120	A.C., 3 ph. and 1 ph.	1,288	1 2	1¼	5 0	1	0·35	1	1½	7½	4	0·5
Darnum ..	Gipps.	300	A.C., 3 ph. and 1 ph.	51	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Deer Park ..	M.E.S.	665	A.C., 3 ph. and 1 ph.	36	1 4	1½	5 6	1	0·35	1	1½	9½	5½	0·5
Dennington ..	S/W	315	A.C., 1 ph.	43	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Diamond Creek	E/M	460	A.C., 1 ph.	84	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Digger's Rest	C'maine	100	A.C., 1 ph.	18	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Dingley ..	E/M	245	A.C., 1 ph.	31	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Dromana ..	E/M	850	A.C., 3 ph. and 1 ph.	187	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Dromin ..	Gipps.	1,020	A.C., 3 ph. and 1 ph.	212	1 6	1½	6 0	1	0·35	1	1½	9	5	0·5
Drysdale ..	G.E.S.	1,000	A.C., 1 ph.	130	1 6	1½	6 0	1	0·35	1	1½	9½	5½	0·5
Eaglehawk ..	Bend. E.S.	(See Bendigo—under Provincial Cities)												
East Oakleigh	E/M	112	A.C., 3 ph.	21	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Echuca ..	N/E	4,422	A.C., 3 ph.	869	1 3	1½	5 0	1	0·35	1	1½	7½	5	0·5
Eildon Weir ..	N/E	..	A.C., 3 ph.	5	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Elliminyt ..	S/W	(See Colac)*												
Eltham ..	E/M	660	A.C., 1 ph.	155	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Emerald ..	E/M	260	A.C., 1 ph.	66	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Euroa ..	N/E	2,500	D.C., 230 v.	449	1 4	1¾	7 6	1¾	..	..	1½	8½	5	..
Ferny Creek ..	E/M	110	A.C., 1 ph.	25	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Frankston ..	E/M	4,475	A.C., 3 ph. and 1 ph.	1,189	1 2	1¼	5 0	1	0·35	1	1½	7½	4	0·5
Garfield ..	Gipps.	340	A.C., 1 ph.	57	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Geelong West ..	G.E.S.	(See Geelong—under Provincial Cities)												
Gisborne ..	C'maine	700	A.C., 3 ph. and 1 ph.	121	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Glengarry ..	Gipps.	125	A.C., 3 ph.	22	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Glenormiston	S/W	95	A.C., 3 ph. and 1 ph.	25	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Glen Waverley	E/M	350	A.C., 1 ph.	36	1 6	1½	6 0	1	0.35	1	1½	9½	5	0.5
Golden Square	Bend. E.S.	(See Bendigo—under Provincial Cities)												
Gnotuk ..	S/W	120	A.C., 1 ph.	6	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Greensborough	E/M	725	A.C., 3 ph.	169	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Grovedale ..	G.E.S.	(See Geelong—under Provincial Cities)												
Harcourt ..	C'maine	410	A.C., 3 ph.	31	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Hastings ..	E/M	490	A.C., 1 ph.	86	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Hazelwood ..	Gipps.	(See Yinnar)*												
Healesville ..	E/M	1,740	A.C., 3 ph. and 1 ph.	508	1 4	1½	5 6	1	0·35	1	1½	8½	4	0·5
Heyfield ..	Gipps.	850	A.C., 3 ph. and 1 ph.	139	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Highton ..	G.E.S.	(See Geelong—under Provincial Cities)												
Hillside ..	Gipps.	(See Lindenow)												
Inverloch ..	Gipps.	450	A.C., 1 ph.	78	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Irrewarra ..	S/W	150	A.C., 1 ph.	4	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Johnsonville ..	Gipps.	(See Lakes Entrance)												
Jumbunna ..	Gipps.	250	A.C., 1 ph.	44	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Kalimna Point	Gipps.	(See Lakes Entrance)												
Kallista ..	E/M	160	A.C., 1 ph.	52	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Kalorama ..	E/M	205	A.C., 1 ph.	45	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Kangaroo Flat	Bend. E.S.	(See Bendigo—under Provincial Cities)												
Keilor ..	C'maine	250	A.C., 1 ph.	30	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Kilsyth ..	E/M	145	A.C., 1 ph.	35	1 0	1¼	5 0	1	0·35	1	1½	7	3	0·5
Kolora ..	S/W	70	A.C., 3 ph. and 1 ph.	13	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Kongwak ..	Gipps.	100	A.C., 3 ph. and 1 ph.	25	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Koo-wee-rup ..	Gipps.	900	A.C., 3 ph. and 1 ph.	182	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Koroit ..	S/W	1,200	A.C., 3 ph.	211	1 4	1½	5 6	1	0·35	1	1½	8½	5½	0·5
Korumburra ..	Gipps.	2,700	A.C., 3 ph. and 1 ph.	570	1 4	1½	5 6	1	0·35	1	1½	8½	4½	0·5
Kyabram ..	N/E	1,700	A.C., 3 ph.	457	1 4	1½	5 6	1	0·35	1	1½	8½	5½	0·5
Kyneton ..	C'maine	3,200	A.C., 3 ph.	702	1 3	1¼	5 0	1	0·35	1	1½	7½	5	0·5
Lakes Entrance	Gipps.	1,345	A.C., 1 ph.	214	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5

APPENDIX No. 5—*continued.*

COUNTRY CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Centre.	Branch.	Population.	System of Supply Single-phase 230/460-V. Three-phase 230/400-V.	Number of Consumers.	Residental Two-part Tariff.		Industrial Power and Heating (Two-part Tariff).				(*c*) Commercial Cooking Flat Tariff.	(*d*) Commercial Lighting Block Tariff.	(*e*) Commercial Power Flat Tariff.	(*f*) Night Water Heating Tariff.
							(*a*) Option I.		(*b*) Option II.					
					Service Charge per Room per Month.	Charge per kWh.	Service Charge per H.P. per Month 1–50.	Charge per kWh.	Service Charge per H.P. per Month as under (*a*). Charge per kWh. During Prescribed Hours.	Service Charge per H.P. per Month as under (*a*). Charge per kWh. During other Hours.	Charge per kWh.	Commencing at— Charge per kWh.	Charge per kWh.	Charge per kWh.
					s. d.	*d.*	*s. d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*
Lancaster ..	N/E	..	A.C., 3 ph.	3	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Lancefield ..	C'maine	600	A.C., 3 ph. and 1 ph.	95	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Lang Lang ..	Gipps.	700	A.C., 3 ph. and 1 ph.	137	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Lara ..	G.E.S.	(See Geelong—under Provincial Cities)												
Lara Lake ..	G.E.S.	(See Geelong—under Provincial Cities)												
Leongatha ..	Gipps.	1,950	A.C., 3 ph. and 1 ph.	482	1 4	1½	5 6	1	0·35	1	1½	8½	4½	0·5
Leopold ..	G.E.S.	(See Drysdale)												
Lilydale ..	E/M	1,215	A.C., 3 ph. and 1 ph.	330	1 4	1½	5 6	1	0·35	1	1½	8½	4	0·5
Lindenow ..	Gipps.	330	A.C., 1 ph.	73	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Loch ..	Gipps.	450	A.C., 1 ph.	74	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Long Gully ..	Bend. E.S.	(See Bendigo—under Provincial Cities)												
Longwarry ..	Gipps.	300	A.C., 3 ph. and 1 ph.	57	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Lower Ferntree Gully	E/M	700	A.C., 3 ph. and 1 ph.	98	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Lower Plenty	E/M	86	A.C., 1 ph.	20	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Lucknow ..	Gipps.	(See Bairnsdale)												
Macedon ..	C'maine	1,308	A.C., 3 ph. and 1 ph.	223	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Maldon ..	C'maine	1,000	A.C., 3 ph. and 1 ph.	46	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Maffra ..	Gipps.	2,600	A.C., 3 ph. and 1 ph.	552	1 4	1½	5 6	1	0·35	1	1½	8½	4½	0·5
Mansfield ..	N/E	650	A.C., 1 ph.	224	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Merrigum ..	N/E	200	A.C., 3 ph.	51	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Metung ..	Gipps.	(See Lakes Entrance)												
Mirboo North ..	Gipps.	600	A.C., 3 ph. and 1 ph.	131	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Moe ..	Gipps.	900	A.C., 3 ph. and 1 ph.	207	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Monegeeta ..	C'maine	50	A.C., 1 ph.	13	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Monomeith ..	Gipps.	(See Koo-wee-rup)*												
Montmorency ..	E/M	365	A.C., 1 ph.	84	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Montrose ..	E/M	325	A.C., 3 ph. and 1 ph.	71	1 0	1¼	5 0	1	0·35	1	1½	7	3	0·5
Moolap ..	G.E.S.	(See Drysdale)												
Moorooduc ..	E/M	23	A.C., 3 ph.	5	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Mooroopna ..	N/E	1,500	A.C., 3 ph.	240	1 4	1½	5 6	1	0·35	1	1½	8½	5½	0·5
Mornington ..	E/M	2,200	A.C., 3 ph. and 1 ph.	620	1 4	1½	5 6	1	0·35	1	1½	8½	4	0·5
Mortlake ..	S/W	844	A.C., 3 ph.	230	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Morwell ..	Gipps.	1,850	A.C., 3 ph. and 1 ph.	338	1 4	1½	5 6	1	0·35	1	1½	8½	4½	0·5
Morwell Bridge	Gipps.	(See Morwell)												
Mossiface ..	Gipps.	(See Bruthen)												
Moyarra ..	Gipps.	(See Jumbunna)												
Mt. Dandenong	E/M	130	A.C., 1 ph.	53	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Mt. Eliza ..	E/M	415	A.C., 3 ph. and 1 ph.	134	1 2	1¼	5 0	1	0·35	1	1½	7½	4	0·5
Mt. Evelyn ..	E/M	345	A.C., 1 ph.	46	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Mt. Martha ..	E/M	345	A.C., 1 ph.	85	1 4	1½	5 6	1	0·35	1	1½	8½	4	0·5
Mt. Pleasant ..	Ball. E.S.	(See Ballarat—under Provincial Cities)												
Mt. Waverley ..	E/M	210	A.C., 1 ph.	24	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Nalangil ..	S/W	60	A.C., 1 ph.	12	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Nar-nar-goon	Gipps.	200	A.C., 1 ph.	29	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Narre Warren	E/M	120	A.C., 1 ph.	17	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Nathalia	N/E	860	A.C., 3 ph.	189	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Nayook ..	Gipps.	(See Neerim)												
Neerim ..	Gipps.	1,150	A.C., 1 ph.	204	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Neerim South	Gipps.	(See Neerim)												
New Gisborne	C'maine	200	A.C., 1 ph.	22	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Newry ..	Gipps.	375	A.C., 3 ph. and 1 ph.	38	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Newtown ..	G.E.S.	(See Geelong—under Provincial Cities)												
Nicholson ..	Gipps.	(See Lakes Entrance)												
Nilma ..	Gipps.	140	A.C., 1 ph.	29	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Noble Park ..	E/M	1,355	A.C., 3 ph.	148	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Noojee ..	Gipps	(See Neerim												

APPENDIX No. 5—*continued.*

COUNTRY CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Centre.	Branch.	Popn-lation.	System of Supply Single-phase 230/460-V. Three-phase 230/400-V.	Number of Con-sumers.	Residential Two-part Tariff.		Industrial Power and Heating (Two-part Tariff).					(c) Com-mercial Cook-ing Flat Tariff.	(d) Com-mercial Light-ing Block Tariff.	(e) Com-mercial Power Flat Tariff.	(f) Night Water Heat-ing Tariff.
							(a) Option I.		(b) Option II.						
					Service Charge per Room per Month.	Charge per kWh.	Service Charge per H.P. per Month 1–50.	Charge per kWh.	Service Charge per H.P. per Month as under (a).	Charge per kWh.			Com-mencing at—		
									During Prescribed Hours.	During other Hours.			Charge per kWh.	Charge per kWh.	Charge per kWh.
					s. d.	*d.*	*s. d.*	*d.*	*d.*	*d.*		*d.*	*d.*	*d.*	*d.*
Noorat ..	S/W	360	A.C., 3 ph.	81	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
North Geelong	G.E.S.	(See Geelong—under Provincial Cities)													
North Shore ..	G.E.S.	(See Geelong—under Provincial Cities)													
Notting Hill ..	E/M	195	A.C., 1 ph.	20	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Numurkah ..	N/E	1,350	A.C., 3 ph.	341	1 4	1½	5 6	1	0·35	1		1½	8½	5	0·5
Nyora ..	Gipps.	180	A.C., 1 ph.	42	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Ocean Grove ..	G.E.S.	100	A.C., 1 ph.	48	1 6	1½	6 0	1	0·35	1		1½	9½	5½	0·5
Officer ..	E/M	170	A.C., 1 ph.	18	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Olinda ..	E/M	430	A.C., 1 ph.	98	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Pakenham ..	E/M	550	A.C., 1 ph.	105	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Point Lonsdale	G.E.S.	250	A.C., 1 ph.	144	1 6	1½	6 0	1	0·35	1		1½	9½	5½	0·5
Pomborneit ..	S/W	190	A.C., 1 ph.	31	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Poowong ..	Gipps.	250	A.C., 1 ph.	47	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Portarlington	G.E.S.	600	A.C., 1 ph.	113	1 6	1½	6 0	1	0·35	1		1½	9½	5½	0·5
Port Fairy ..	S/W	1,800	A.C., 3 ph. and 1 ph.	316	1 4	1½	5 6	1	0·35	1		1½	8½	5½	0·5
Port Fairy Rural	S/W	550	A.C., 1 ph.	12	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Portsea ..	E/M	460	A.C., 3 ph.	127	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Quarry Hill ..	Ben. E.S.	(See Bendigo—under Provincial Cities)													
Queenscliff ..	G.E.S.	3,100	A.C., 3 ph.	470	1 4	1½	5 6	1	0·35	1		1½	8½	5	0·5
Riddell ..	C'maine	280	A.C., 1 ph.	34	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Ringwood ..	E/M	3,250	A.C., 3 ph. and 1 ph.	690	1 0	1¼	5 0	1	0·35	1		1½	7	3	0·5
Rochester ..	N/E	1,487	A.C., 3 ph.	356	1 4	1½	5 6	1	0·35	1		1½	8½	5½	0·5
Rokeby ..	Gipps.	(See Neerim)*													
Romsey ..	C'maine	600	A.C., 3 ph. and 1 ph.	107	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Rosebud ..	E/M	1,150	A.C., 3 ph. and 1 ph.	246	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Rosedale ..	Gipps.	360	A.C., 1 ph.	74	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Ruby ..	Gipps.	50	A.C., 3 ph.	8	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Rutherglen ..	N/E	1,200	A.C., 3 ph.	275	1 4	1½	5 6	1	0·35	1		1½	8½	5½	0·5
Rye ..	E/M	220	A.C., 1 ph.	50	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Sale ..	Gipps.	4,550	A.C., 3 ph. and 1 ph.	975	1 3	1½	5 0	1	0·35	1		1½	7½	4	0·5
Sassafras ..	E/M	540	A.C., 3 ph. and 1 ph.	149	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Seaford ..	E/M	915	A.C., 3 ph. and 1 ph.	237	1 2	1¼	5 0	1	0·35	1		1½	7½	4	0·5
Sebastopol ..	Ball. E.S.	(See Ballarat—under Provincial Cities)													
Selby ..	E/M	60	A.C., 1 ph.	13	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Shepparton ..	N/E	6,500	A.C., 3 ph.	1,373	1 3	1½	5 0	1	0·35	1		1½	7½	5	0·5
Shepparton East	N/E	..	A.C., 1 ph.	81	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Sherbrooke ..	E/M	155	A.C., 1 ph.	38	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Silvan ..	E/M	205	A.C., 3 ph. and 1 ph.	21	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Somers ..	E/M	189	A.C., 1 ph.	36	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Somerville ..	E/M	360	A.C., 3 ph. and 1 ph.	70	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Sorrento ..	E/M	1,250	A.C., 3 ph. and 1 ph.	348	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Springhurst ..	N/E	100	A.C., 3 ph.	37	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Springvale ..	E/M	2,050	A.C., 3 ph. and 1 ph.	341	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
St. Albans ..	G.E.S.	(See Geelong—under Provincial Cities)													
St. Albans ..	C'maine	600	A.C., 1 ph.	83	1 4	1½	5 6	1	0·35	1		1½	9½	5½	0·5
Stratford ..	Gipps.	900	A.C., 3 ph. and 1 ph.	128	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Strathallen ..	N/E	..	A.C., 1 ph.	2	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Strathfieldsaye	Bend. E.S.	(See Bendigo—under Provincial Cities)													
Strathmerton	N/E	140	A.C., 1 ph.	20	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Sunbury ..	C'maine	1,050	A.C., 3 ph.	215	1 4	1½	5 6	1	0·35	1		1½	9½	5½	0·5
Swan Reach ..	Gipps.	(See Lakes Entrance)													
Tallygaroopna	N/E	200	A.C., 1 ph.	11	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Tally Ho ..	E/M	50	A.C., 3 ph.	11	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Tatura ..	N/E	1,300	A.C., 3 ph.	272	1 4	1½	5 6	1	0·35	1		1½	8½	5½	0·5
Tecoma ..	E/M	(See Belgrave)													
Terang ..	S/W	2,012	A.C., 3 ph.	510	1 4	1½	5 6	1	0·35	1		1½	8½	5½	0·5
Terang Rural	S/W	445	A.C., 3 ph. and 1 ph.	82	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Thomastown ..	E/M	145	A.C., 3 ph.	24	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5
Thornton ..	N/E	150	A.C., 1 ph.	47	1 6	1½	6 0	1	0·35	1		1½	9½	6	0·5
Tinamba ..	Gipps.	300	A.C., 3 ph. and 1 ph.	31	1 6	1½	6 0	1	0·35	1		1½	9½	5	0·5

APPENDIX No. 5—*continued.*

COUNTRY CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA—*continued.*

Centre.	Branch.	Population.	System of Supply Single-phase 230/460-V. Three-phase 230/400-V.	Number of Consumers.	Residential Two-part Tariff.		Industrial Power and Heating (Two-part Tariff).				(c) Commercial Cooking Flat Tariff.	(d) Commercial Lighting Block Tariff.	(e) Commercial Power Flat Tariff.	(f) Night Water Heating Tariff.
							(a) Option I.		(b) Option II.					
					Service Charge per Room per Month.	Charge per kWh.	Service Charge per H.P. per Month 1–50.	Charge per kWh.	Service Charge per H.P. per Month as under (a). Charge per kWh. During Prescribed Hours.	Charge per kWh. During other Hours.	Charge per kWh.	Commencing at— Charge per kWh.	Charge per kWh.	Charge per kWh.
					s. d.	*d.*	*s. d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*
Tongala ..	N/E	320	A.C., 3 ph.	109	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Toongabbie ..	Gipps.	100	A.C., 1 ph.	14	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Torquay ..	G.E.S.	160	A.C., 3 ph.	154	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Trafalgar ..	Gipps.	1,250	A.C., 3 ph. and 1 ph.	265	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Traralgon ..	Gipps.	2,550	A.C., 3 ph. and 1 ph.	559	1 4	1½	5 6	1	0·35	1	1½	8	4½	0·5
Tremont ..	E/M	390	A.C., 1 ph.	67	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Tyabb ..	E/M	235	A.C., 1 ph.	29	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Tyers ..	Gipps.	200	A.C., 1 ph.	58	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Tynong ..	Gipps.	220	A.C., 1 ph.	32	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Upper Beaconsfield	E/M	310	A.C., 1 ph.	41	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Upper Ferntree Gully	E/M	925	A.C., 3 ph. and 1 ph.	133	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Upwey ..	E/M	1,175	A.C., 3 ph. and 1 ph.	218	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Violet Town ..	N/E	600	A.C., 3 ph.	104	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Wahgunyah ..	N/E	500	A.C. 3 ph.	72	1 6	1½	6 0	1	0·35	1	1½	9	6	0·5
Walpa ..	Gipps.	(See Lindenow)												
Wangaratta ..	N/E	4,794	A.C., 3 ph.	1,078	1 3	1½	5 0	1	0·35	1	1½	7½	5	0·5
Wangaratta North	N/E	..	A.C., 3 ph. and 1 ph.	3	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Wantirna ..	E/M	80	A.C., 3 ph.	7	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Warncoort ..	S/W	30	A.C., 1 ph.	5	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Warragul ..	Gipps.	2,840	A.C., 3 ph. and 1 ph.	656	1 4	1½	5 6	1	0·35	1	1½	8½	4	0·5
Warrandyte ..	E/M	285	A.C., 1 ph.	47	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Warrion ..	S/W	75	A.C., 3 ph. and 1 ph.	17	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Warrnambool ..	S/W	9,310	A.C., 3 ph.	1,756	1 3	1½	5 0	1	0·35	1	1½	7½	5	0·5
Warrnambool Rural	S/W	90	A.C., 1 ph.	1	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Watsonia ..	E/M	80	A.C., 3 ph.	18	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Weerite ..	S/W	30	A.C., 3 ph.	3	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Wendouree ..	Ball. E.S.	(See Ballarat—under Provincial Cities)												
Werribee ..	W/M	2,300	A.C., 3 ph.	515	1 4	1½	5 6	1	0·35	1	1½	8½	4½	0·5
Wheeler's Hill	E/M	120	A.C., 1 ph.	12	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
White Hills ..	Bend. E.S.	(See Bendigo—under Provincial Cities)												
Winchelsea ..	S/W	560	A.C., 1 ph.	94	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Wiseleigh ..	Gipps.	(See Bruthen)												
Wodonga ..	N/E	2,900	A.C., 3 ph.	408	1 4	1½	5 6	1	0·35	1	1½	8½	5½	0·5
Woodend ..	C'maine	1,168	A.C., 3 ph. and 1 ph.	236	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Wool Wool ..	S/W	30	A.C., 3 ph.	3	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Wunghnu ..	N/E	187	A.C., 1 ph.	14	1 6	1½	6 0	1	0·35	1	1½	9½	6	0·5
Wy Yung ..	Gipps.	(See Bairnsdale)												
Yannathan ..	Gipps.	(See Lang Lang)*												
Yarra Glen ..	E/M	310	A.C., 1 ph.	41	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Yarragon ..	Gipps.	470	A.C., 3 ph. and 1 ph.	90	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Yarrawonga ..	N/E	2,300	A.C., 3 ph.	472	1 4	1½	5 6	1	0·35	1	1½	8½	5½	0·5
Yering ..	E/M	15	A.C., 1 ph.	5	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Yeringberg ..	E/M	20	A.C., 1 ph.	6	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5
Yinnar ..	Gipps.	260	A.C., 3 ph. and 1 ph.	66	1 6	1½	6 0	1	0·35	1	1½	9½	5	0·5

For notes relating to foregoing tariffs in respect of country centres, see next page.

NOTES RELATING TO THE FOREGOING TARIFFS.

(*a*) Service charge subject to discount of 5 per cent. if three motors, 10 per cent. if four motors, 15 per cent. if five motors, and 20 per cent. if six or more motors are installed.

If the total horse-power installed is between 51–100, the service charge per h.p. per month is 6d. less; if between 101–200, 1s. less; if between 201–500, 1s. 6d. less; and if over 500, 2s. less.

Electricity charge subject to discount of 5 per cent. if more than 5,000 kilowatt-hours; 10 per cent. if more than 25,000 kilowatt-hours; 11 per cent. if more than 50,000 kilowatt-hours; and 12 per cent. if more than 100,000 kilowatt-hours consumed per month.

(*b*) For electricity supplied between the hours of 10 p.m. and 6 a.m. or other prescribed hours. Service charge subject to same discounts as for Industrial Power and Heating Two-part Tariff (Option I.).

(*c*) Applicable to cafés, restaurants, cake, and other prepared food shops and the like, where an electric range, oven or like device of not less than 3-kilowatt capacity is used.

(*d*) Charge for the first block of kilowatt-hour consumption in excess of 200 kilowatt-hours per month is at a lower rate.

(*e*) Applicable to apparatus of an installed capacity of less than five horse-power. Subject to the following consumption discounts:—Up to 250 kilowatt-hours per month, no discount; over 250 kilowatt-hours per month, 10 per cent. on all kilowatt-hours supplied; over 400 kilowatt-hours per month, 20 per cent. on all kilowatt-hours supplied; over 600 kilowatt-hours per month, 30 per cent. on all kilowatt-hours supplied; over 800 kilowatt-hours per month, 40 per cent. on all kilowatt-hours supplied.

(*f*) Water Heating Night Rate Tariff. For electricity supplied between the hours of 10 p.m. and 6 a.m. (10 a.m. Sundays) or 10.30 p.m. and 6.30 a.m. (10.30 a.m. Sundays).

(*g*) Minimum Charge. The minimum charge in all country centres is 3s. 6d. per month, inclusive of meter rent.

ABBREVIATIONS.

M.E.S.	Metropolitan Electricity Supply
Ball. E.S.	Ballarat Electricity Supply
Bend. E.S.	Bendigo Electricity Supply
C'maine	Castlemaine Branch
E/M	Eastern Metropolitan Branch
G.E.S.	Geelong Electricity Supply
Gipps.	Gippsland Branch
N/E	North-Eastern Branch
S/W	South-Western Branch
W/M	Western Metropolitan Branch

System of Supply: Single-phase 230/460 V., three-phase 230/400 V. * = A.C., 1 ph.; † = A.C., 3 ph. and 1 ph.

APPENDIX No. 5—*continued.*

COUNTRY ELECTRIC SUPPLY UNDERTAKINGS (MUNICIPAL AND PRIVATE) AT 1st JULY, 1936.

Locality.	Population in Supply Area.	Supply Authority.	System of Supply.	No. of Consumers.		Price per kWh.	
				Light.	Power.	Lighting.	Power.
Apollo Bay	450	Apollo Bay E.S. Co. Pty. Ltd.	D.C., 230 v.	50	..	1s.	6d.
Ararat	5,400	Ararat Borough Council	A.C., 230–400 v.	1004	(total)	9d.	3½d.
*Aspendale, Chelsea, and Carrum	8,000	Carrum E.S. Co.	,,	2,410	..	8d.	5d.
Avoca	1,000	Avoca E.L. Co. Pty. Ltd.	D.C., 230 v.	190	(total)	1s. 3d.	6d.
Bacchus Marsh	1,510	Bacchus Marsh Shire Council	A.C., 230–400 v.	407	(total)	10d. to 9d.	6d. to 4½d.
Ballan	600	Ballan E.S. Co. Pty. Ltd.	A.C., 230–400 v	115	..	1s. 3d.	9d.
Beaufort	1,500	Ripon Shire Council	,,	228	..	10d.	5d.
Beechworth	1,800	Beechworth Shire Council	,,	369	..	1s.	6d.
Beulah	400	Karkarooc Shire Council	D.C., 230–460 v.	122	(total)	1s. 3d.	4d.
Birchip	1,031	Birchip E.S. Co. Ltd.	D.C., 230 v.	205	..	1s.	6d.
Boort	650	Boort Co-op. Butter and Ice Co.	,,	276	56	1s. 3d. to 9d.	6d. to 4½d.
Bright	650	Block and Sons Pty. Ltd.	A.C., 230–400 v.	104	..	1s. 3d.	6d.
Broadford	1,000	Broadford Shire Council	D.C., 230 v.	219	..	9d.	9d. to 6d.
Casterton	1,800	Casterton E.S. Co. Pty. Ltd.	,,	466	(total)	1s.	7½d. to 4d.
Charlton	1,300	Charlton E.L. & P. Co.	,,	450	(total)	1s. to 9d.	4½d.
Cohuna	1,000	Federal Milk Pty. Ltd.	,,	215	(total)	1s. to 9d.	6d. to 3d.
Coleraine	950	Coleraine and W.D.B.F. Co. Ltd.	,,	205	(total)	1s. 2d.	10d. to 6d.
Corindhap	..	Corindhap Hydraulic G.S. Co., N.L.	A.C., 3 ph.	No supply to consumers			
Corryong	500	Shire of Upper Murray	A.C., 230–400 v.	134	..	1s. 3d.	6d.
Daylesford	3,500	Ex. of late M. Pollard	D.C., 230–460 v.	530	..	10d.	5d.
Dimboola	1,650	Dimboola Shire Council	,,	454	(total)	1s. to 9d.	6d. to 4d.
Donald	1,700	Donald Shire Council	D.C., 230 v.	374	..	1s.	6d.
†Doncaster	2,500	Doncaster Shire Council	A.C. 1 ph., 200–400 v.	423	..	7d.	4d. to 2d.
Dunolly	500	Bet Bet Shire Council	A.C., 230–400 v.	151	..	1s. to 10d.	6d.
Edenhope	400	Bird, A. J.	D.C., 230 v.	30	..	1s. 6d.	1s.
Elmore	800	Elmore Elec. L. & P. Co.	D.C., 230 v.	192	..	1s.	6d.
Foster	900	Toora Foster Elec. Co. Ltd.	A.C., 230–400 v.	See Toora		1s. to 8d.	4d. to 3d.
Goroke	200	W. A. Bland	D.C., 230 v.	33	..	1s. 6d.	6d.
Hamilton	5,300	Hamilton E.S. Co. Ltd.	D.C., 230 v.	1,094	(total)	7d.	5d.
Heathcote	1,500	McIvor Shire Council	D.C., 230 v.	218	..	1s. 1d.	6d. to 3d.
Hepburn	350	Hepburn Springs E.S. Co. Ltd.	A.C., 230–400 v.	174	..	1s. to 9d.	4d.
Hopetoun	800	Karkarooc Shire Council	D.C., 230 v.	160	(total)	11d.	4d.
Horsham	5,400	Horsham Borough Council	D.C., 230–460 v.	1,118	(total)	9d. to 6d.	4d. to 1¼d.
Inglewood	1,100	Inglewood Borough Council	D.C., 230 v.	201	..	1s.	6d. to 3d.
Jeparit	800	Block & Sons Pty. Ltd.	D.C., 230 v.	229	(total)	1s.	6d.
Kaniva	1,200	Lawloit Shire council	A.C., 230–400 v.	172	(total)	1s. 2d.	6d.
Kerang	2,750	Kerang Shire Council	D.C., 230 v.	637	(total)	9d.	5d. to 3d.
Kilmore	1,020	Kilmore Shire Council	,,	206	(total)	10d. to 6d.	4d.
Koondrook	500	Kerang Shire Council	A.C., 230–400 v.	83	..	1s. 3d.	9d.
Korong Vale	1,500	Korong Shire Council	A.C., 230–400 v.	273	(total)	1s.	5d.
Lake Boga	250	Swan Hill Shire Council	,,	Included in Swan Hill		1s. 3d.	6d.
Lamplough	..	Lamplough Gold Mining Co. Ltd.	A.C., 230–400 v.	No supply to consumers			
Lorne	350	Winchelsea Shire Council	D.C., 230 v.	133	..	1s. 6d. to 1s.	9d.
Manangatang	350	J. Andrews	D.C., 230 v.	50	..	1s. 4d.	9d.
Maryborough	5,600	Maryborough Borough Council	A.C., 230–400 v.	1,093	(total)	10d.	5d. to 1¾d.
Mildura	13,500	Mildura City Council	D.C., 230–460 v. A.C., 230–400 v.	2,180	(total)	City, 7d. to 5¾d.; District, 10d. to 7¾d.	Ind.—City, 4·75 to 1d.; Dist., 5d. to 1¾d.
Minyip	700	Dunmunkle Shire Council	D.C., 230 v.	185	(total)	1s. 2d.	8d. to 2d.
Myrtleford	650	Block and Sons Pty. Ltd.	A.C., 230–400 v.	120	..	1s. 1d.	6d.
Murrayville	450	Walpeup Shire Council	A.C., 230–400 v.	58	..	1s. 3d.	6d. to 3d.
Murchison	600	Waranga Shire Council	A.C., 230–400 v.	103	..	1s. 4d.	7d. to 2d.
Murtoa	1,239	Dunmunkle Shire Council	D.C., 230 v.	317	..	10d.	5d. to 2d.
Nagambie	800	Goulburn Shire Council	D.C., 230 v.	230	..	10d.	6d. to 5d.
Natimuk	500	H. C. Woolmer	A.C., 230–400 v.	91	..	1s. 3d.	9d.
Nhill	1,990	Lowan Shire Council	D.C., 230–460 v.	436	..	1s.	6d. to 3d
Nyah	400	Swan Hill Shire Council	A.C., 230–400 v.	Included in Swan Hill		1s. 3d.	6d.
Omeo	500	Omeo Power Co.	,,	91	..	1s. 3d.	6d.
Orbost	1,600	Orbost Butter and Cheese Co.	D.C., 230 v.	340	(total)	10d.	6d. to 4d.
Ouyen	1,000	Walpeup Shire Council	,,	189	..	11d.	5d. to 2d.
Pyramid	400	Gordon Shire Council	A.C., 230–400 v.	70	(total)	1s. 3d. to 9d.	6d.
Phillip Island	200	Phillip Island Shire Council	,,	97	..	1s. 1½d.	7d.
Portland	2,300	Portland Borough Council	,,	425	..	1s.	6d.
Quambatook	500	Kerang Shire Council	D.C., 230 v.	112	(total)	1s. 3d.	6d. to 4d.
Rainbow	1,007	Rainbow E.L. Co.	,,	158	(total)	1s. to 8d.	1s. to 6d.
Rupanyup	700	Dunmunkle Shire Council	,,	141	..	1s. 2d.	8d. to 2d.
Rushworth	1,200	Waranga Shire Council	,,	273	(total)	1s.	6d. to 2d.
Sea Lake	600	Wycheproof Shire Council	D.C., 230 v.	203	(total)	1s. 3d.	6d. to 3d

* The lighting tariff is applicable to commercial and industrial lighting, and the power tariff to intermittent power; the unit rate in both instances being subject to consumption discount as set out under country centres served by the Commission. The other tariffs available at Carrum are similar to those for Frankston.

† The industrial power and heating two part tariff for Mulgrave (served by Commission) is also available at Doncaster.

COUNTRY ELECTRIC SUPPLY UNDERTAKINGS (MUNICIPAL AND PRIVATE)—*continued.*

Locality.	Population in Supply Area.	Supply Authority.	System of Supply.	No. of Consumers.		Price per kWh.	
				Light.	Power.	Lighting.	Power.
Seymour ..	2,250	Seymour Shire Council	A.C., 230–400 v ..	680 (total)		10d.	4d. to 2d.
Stawell ..	4,500	Stawell Borough Council ..	,, ..	886 (total)		9d.	4d. to 3d.
St. Arnaud ..	3,000	St. Arnaud Borough Council ..	,, ..	620	..	11d. ..	5d.
Swan Hill ..	5,000	Swan Hill Shire Council	,, ..	1,370	..	1s. 3d. to 3d. ..	6d. to 1½d.
			inc. Nyah, Lake Boga, and Ultima				
Tallangatta ..	650	Shire of Towong	A.C., 230–400 v. ..	144	..	1s. 3d. ..	6d.
Toora ..	900	Toora Foster Elec. Co. Ltd. ..	,, ..	201 (total)		1s. to 8d. ..	4d. to 3d.
Trentham ..	500	Kyneton Shire Council	,, ..	151	..	1s. 2d. ..	6d.
Ultima ..	250	Swan Hill Shire Council	,, ..	inc. in Swan Hill		1s. 3d.	6d.
Underbool ..	250	A. J. Gloster	D.C., 230 v. ..	25	..	1s. 3d. ..	6d.
Warburton ..	1,200	Upper Yarra E.S. Co. Pty. Ltd. ..	D.C., 230 v. ..	180	..	9d.	4½d.
			A.C., 230–400 v.				
Warracknabeal	2,500	Warracknabeal E.L. Co. Ltd. ..	A.C., 230–400 v. ..	511	..	11d.	6d. to 4d.
Wedderburn ..	1,500	Korong Shire Council	,, ..	See Korong Vale		1s.	5d.
Wonthaggi ..	9,000	State Coal Mine	A.C., 415–240 v. ..	1,650	194	7d.	3d. to 1½d
Wycheproof ..	800	Wycheproof Shire Council ..	D.C., 230 v. ..	203 (total)		1s. 3d. ..	6d. to 4½d
Yarram ..	1,200	Yarram H.E. Co.	A.C., 230–400 v. ..	400	..	11d. ..	4d. to 2d
Yea	900	Yea Shire Council	,, ..	248	..	11d. ..	6d. to 4d.

Total Population, 135,697. Total Consumers, 28,285.

REFERENCE TO APPENDIX No. 6.

DIAGRAM OF SUPPLY SYSTEM AT 30TH JUNE, 1936.

The diagrammatic representation of the method of supplying the various centres served by the Commission appearing on the opposite page shows the generating stations, terminal stations, main sub-stations, transmission lines, &c. The following information should be read in conjunction therewith :—

Main System comprises the generating stations at Yallourn, Sugarloaf–Rubicon, Newport and Richmond, the terminal stations at Richmond, Yarraville, Thomastown and Rubicon " A " and the transmission lines connecting the generating stations and terminal stations ; from this system, energy is delivered to Bendigo and Geelong and the Gippsland and North Eastern Branches and to the

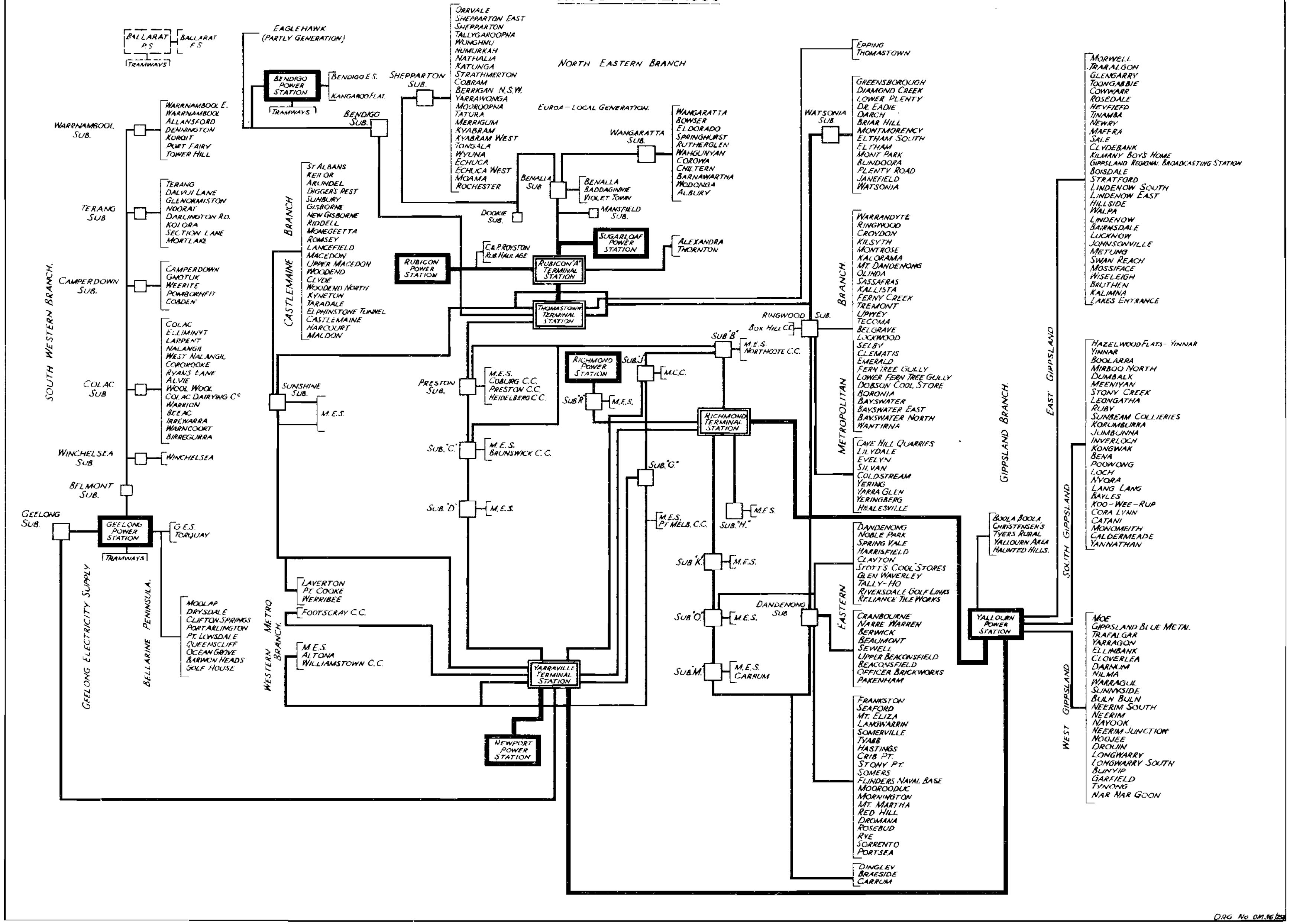
Central Supply System, which comprises the Melbourne metropolitan main sub-stations and the network of overhead lines and underground cables connecting the terminal stations to those sub-stations and interconnecting the main sub-stations themselves. Energy from this system is delivered to the Commission's Metropolitan Electricity Supply, Western Metropolitan, Eastern Metropolitan and Castlemaine Branches and also to the Melbourne municipalities which distribute electricity.

At 30th June, 1936, Bendigo, Ballarat, and Geelong power stations were operated independently of the Commission's Main Supply System.

STATE ELECTRICITY COMMISSION OF VICTORIA

DIAGRAM OF SUPPLY SYSTEM

AT 30TH JUNE, 1936



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APPENDIX No. 7.

COUNTRY UNDERTAKINGS ACQUIRED BY THE STATE ELECTRICITY COMMISSION OF VICTORIA.—INCREASED DEVELOPMENT SINCE ACQUISITION.

Branch and Town.	Acquisition Date.	After Acquisition, Year 1935-36		Prior to Acquisition.			Average Revenue per Kwh. Sold.	
		Kwh. Sold.	Revenue.	Kwh. Sold.	Revenue.	For Year Ended.	1935-36.	Prior to Acquisition
			£		£		*d.*	*d.*
CASTLEMAINE BRANCH.								
Castlemaine	31.12.29	487,271	8,275	175,904	7,130	31.12.28	4·08	9·73
Gisborne	1.10.28	73,346	1,166	17,000	1,074	30.9.27	3·82	15·16
Kyneton	1.10.29	402,010	6,562	143,340	5,433	30.9.27	3·92	9·09
Sunbury	1.5.26	227,911	3,617	58,501	2,490	30.9.24	3·81	10·21
Woodend	1.8.29	146,707	2,667	51,000	2,555	30.9.27	4·36	12·02
EASTERN METROPOLITAN BRANCH.								
Dandenong	1.10.23	928,610	12,498	77,300	4,006	30.9.23	3·23	12·44
Frankston	21.2.28	1,381,111	14,890	293,000	8,859	30.9.27	2·59	7·25
Healesville	1.4.33	295,215	5,595	108,910	4,196	30.9.31	4·55	9·24
Lilydale	1.4.25	584,830	5,275	39,950	1,816	30.9.24	2·16	10·91
Mornington	1.8.30	417,826	6,745	120,000	4,634	30.9.28	3·87	9·26
Ringwood and Croydon ..	1.4.25	841,263	10,254	181,600	4,393	30.9.24	2·93	5·81
GIPPSLAND BRANCH.								
Bairnsdale	1.4.27	807,813	10,317	100,272	2,948	30.6.23	3·06	7·06
Drouin	3.10.24	276,460	2,939	19,500	743	30.9.21	2·55	9·15
Garfield	1.8.29	32,396	496	8,864	465	30.12.27	3·67	12·59
Inverloch	1.10.34	41,693	792	4,000*	200	30.6.34	4·56	12.00*
Koo-wee-rup	1.8.35	68,377	1,491	17,481	686	9.8.33	5·23	9.42
Korumburra	1.12.24	513,952	6,649	85,000	3,427	30.9.23	3·10	9·68
Leongatha	15.2.24	395,193	5,083	50,640	2,012	30.6.23	3·09	9·53
Maffra	1.9.24	863,171	7,705	62,000	2,651	30.9.22	2·14	10·26
Morwell	1.4.26	177,125	2,976	52,062	1,772	30.9.25	4·03	8·17
Neer m-South Noojee ..	15.1.35	233,212	2,279	59,550	1,193	30.6.33	2·35	4.81
Sale	1.7.24	1,187,112	12,521	114,155	3,687	30.6.24	2·53	7·75
NORTH-EASTERN BRANCH.								
Alexandra	11.4.27	327,561	4,365	64,000*	1,875	30.9.26	3·20	7·00*
Benalla	1.5.26	600,261	9,464	70,800	3,373	30.9.24	3·78	11·43
Cobram	1.10.28	72,593	1,704	19,500	1,416	30.9.27	5·63	17·43
Euroa	20.3.28	140,599	3,719	46,618	1,782	30.9.25	6·35	9·17
Kyabram	1.12.26	444,700	5,529	92,312	3,462	4.7.25	2·98	9·00
Mansfield	1.6.28	103,032	2,060	25,000	1,341	30.9.27	4·80	12·88
Mooroopna	1.10.26	399,913	3,868	40,000	1,457	30.9.25	2·32	8·74
Nathalia and Numurkah ..	1.10.31	446,692	6,410	96,763	3,619	30.9.31	3·44	8·97
Rutherglen	15.10.26	395,642	4,201	28,392	1,377	30.9.24	2·55	11·64
Shepparton	1.1.25	1,642,686	17,672	163,400	4,625	30.6.24	2·58	6·79
Tatura	1.11.26	171,786	2,669	40,000	1,710	30.6.25	3·73	10·26
Wahgunyah	1.2.26	35,096	652	7,233	263	30.9.22	4·46	8·73
Wangaratta	12.3.27	6,324,126	30,813	151,600	4,788	30.9.25	1·17	7·58
Yarrawonga	1.8.25	361,669	6,523	47,000	2,149	30.9.24	4·33	10·97
SOUTH-WESTERN BRANCH.								
Camperdown	1.1.24	607,063	7,688	97,664	4,122	30.9.23	3·04	10·13
Colac	1.9.23	940,178	13,904	99,000	2,673	30.9.22	3·55	6·48
Koroit	1.12.28	121,731	1,943	50,000	2,319	30.9.28	3·83	11·13
Mortlake	16.5.24	157,012	2,504	35,306	1,626	30.9.22	3·83	11·05
Terang	4.3.24	311,557	5,119	78,839	3,439	30.9.23	3·94	10·47
WESTERN METROPOLITAN BRANCH.								
Werribee	10.4.24	817,857	7,486	61,190	2,575	30.9.23	2·20	10·10
Total	..	24,804,358	269,085	3,154,646	116,361	..	2·60	8·85

* Approximate only.

COMPARISON OF TOTAL FIGURES.

	Kwh. Sold.	Revenue. £	Average Revenue per Kwh. *d.*
After acquisition	24,804,358	269,085	2·60
Prior to acquisition	3,154,646	116,361	8·85
Increase in sales and revenue ..	686%	131%	Decrease 6·25 = 71%

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