VICTORIA.

STATE ELECTRICITY COMMISSION OF VICTORIA.

EIGHTEENTH ANNUAL REPORT

COVERING THE

FINANCIAL YEAR ENDED 30TH JUNE, 1937,

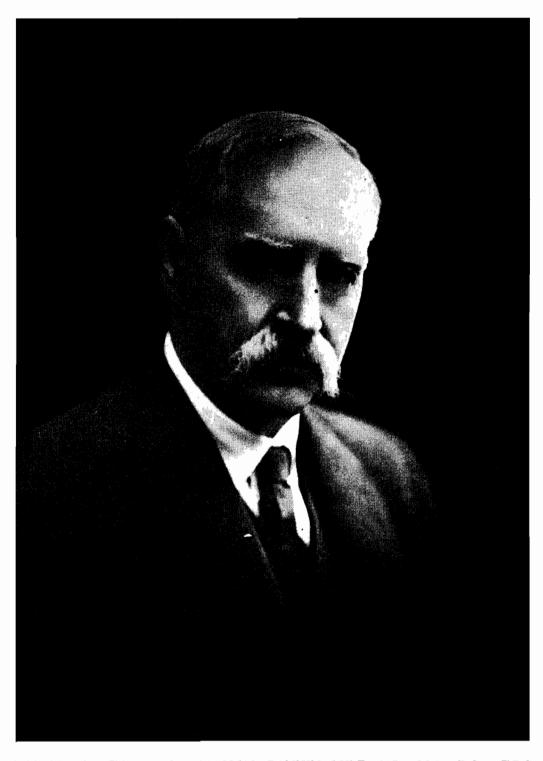
TOGETHER WITH

APPENDICES.

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

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Commissioner of the State Electricity Commission from 10th January, 1921, until his retirement on the 9th January, 1937.

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EIGHTEENTH ANNUAL REPORT.

The Honorable F. E. Old, M.L.A.,

Minister in Charge of Electrical Undertakings,

Melbourne.

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In conformity with the provisions of Section 35 (b) of the State Electricity Commission Act No. 3776, we have the honour to present the Eighteenth Annual Report of the Commission, covering the financial year ended the 30th June, 1937, with Balance-sheet and Profit and Loss Account for the period.

PART 1.—ADMINISTRATION.

MAJOR EXTENSIONS—MAIN SYSTEM.

It is expected that the work of installing a third 25,000 kw. turbo-alternator in the extended Yallourn Power Station will be completed in time to meet the growth of load in the winter of 1938. This will complete the major extension plan approved by Parliament in 1928, which was subsequently modified by the addition of a fourth 25,000 kw. set. This set is to be installed in 1938, and will assist in dealing with the load requirements up to and including the winter of 1940.

Eight of the ten boilers with which the extended power station will be equipped have been erected; construction work on the remaining two will begin in November, 1937, and is due for completion in May, 1938.

A second circuit has been added to the Yallourn–Richmond 132 kv. transmission line to provide the transmission facilities necessary for dealing with the increased output from the Yallourn Power Station.

Expenditure during the year on the Yallourn Power Station extensions, as approved in 1928, amounted to £233,761, bringing the total expenditure to date up to £1,624,000.

The total generating capacity of the State Power System, including spare plant, which will be available when extensions at Yallourn and Newport "B" are completed in 1939, will be 225,500 kw. To avoid the possibility of demand overtaking net capacity, it is necessary that preparations be made immediately for still further plant to be in operation by 1941. As pointed out in the Commission's Seventeenth Annual Report, the question of a major installation of plant for future needs had been receiving close attention. A number of alternatives have been investigated, including a hydro-electric scheme in the country close to Mt. Bogong, on the Kiewa River.

This particular proposal has been under very careful, close, and continued investigation for a considerable number of years, and the scheme which has now been evolved on the basis of the information gained, includes special features, such as long tunnels in rock for the conveyance of water to the pipe-heads, which, from an engineering point of view, are entirely new to Australian practice, although not uncommon in other parts of the world. In order to be fully advised on these features, the Commission arranged for an inspection and report by Messrs. Rendel, Palmer, and Tritton, Consulting Engineers, of Westminster, London, who, acting in conjunction with Vattenbiggnadsbyran (VBB), Sweden, arranged for Mr. B. Hellstrom, M.Inst. C.E., M.Am. Soc. C.E., and Dr. A. F. Samsioe, M.I.V.A., both of the latter firm, to visit Victoria for the purpose. The report of these experts, entirely endorsing the scheme prepared by the Commission's officers, has been incorporated in the report of the Commission to the Government, dated the 12th June, 1937, in which it has recommended adoption of the Kiewa project.

The alternatives examined were an extension of the Yallourn Power Station and the establishment of a fuel-burning station in the metropolitan area. After the closest study of all factors, Kiewa, at an estimated capital cost of £6,136,000, was found to be the most favorable; it is expected to give an annual saving of nearly £200,000 over the more economical of the other alternatives.

The Commission's report, which has been adopted by the Government, also contains a recommendation that for the peak load portion of the demand estimated to arise between 1939 and 1948, progressive extensions be made to the Newport "B" Power Station, at an estimated capital cost of £2,160,000. The total cost of the complete major extensions proposed is thus £8,296,000, but the recent increase in the basic wage will add £487,000 to this estimate.

The Kiewa scheme lends itself admirably to construction in stages, and the expenditure thereon will be spread over a period of fourteen years. Under the programme proposed, power from Kiewa will be available to the extent and at the times shown:—1942, 20,000 kw.; 1945, 37,000 kw.; 1947, 50,000 kw.; 1948, 76,000 kw.; 1949, 83,000 kw.; 1951, 104,000 kw.

The extension of Newport "B" will be undertaken in three stages, each of 30,000 kw., and the third unit is expected to be in operation in 1947-48.

YALLOURN OPEN CUT.

Among the matters arising from the investigations made into open-cut coal-winning methods and machinery in Europe by Mr. R. J. McKay, Engineer-in-Charge Coal Supply, was the purchase of a third coal-winning unit, to ensure still greater reliability in coal-winning operations. It was indicated in the Commission's Seventeenth Annual Report, however, that final decision in the matter would greatly depend on the nature of the offers received, both as to type of plant and purchase price, and that, if conditions were unfavorable, it might prove necessary to defer the purchase until they improved. Careful consideration of the tenders received showed that the international exchange conditions would so increase the price as to make the installation of the additional unit at this juncture uneconomical, and that for the time being it would be better to adopt measures in connexion with the existing plant that would give sufficient guarantee of adequacy and continuity of supplies of coal for the next few years.

INVESTIGATIONS ABROAD.

Investigations abroad were made during the year 1936 by Dr. H. Herman, Engineer-in-Charge Briquetting and Research. These investigations, which will be of great value in planning any future extensions of plant, covered the latest developments in the processes of brown coal briquetting, dust control plant, high pressure and high temperature boilers and turbines and accessory plant. Investigations were also made into the use of pulverized brown coal in locomotives, and the present state of development of various processes of hydrogenation, synthesis, carbonization and other methods of obtaining oil from coal. Useful information was gathered, bearing on both the technical and commercial aspects of these oil-from-coal processes, and provisional comparative figures were obtained, using black and brown coals as the raw material. Much of this information was utilized by the Commonwealth Hydrogenation Committee (on which Dr. Herman represents the State of Victoria) in preparing a recent report for the Commonwealth Government.

Research work controlled by Dr. F. S. Sinnatt, Director of Fuel Research, is being continued at the fuel research station at East Greenwich, England, on the hydrogenation of Victorian brown coal, as well as on the products obtainable by this process. Though not yet complete, these investigations so far indicate that the rate and easy facility of production of oil by the hydrogenation of Victorian brown coal are likely to be at least as advantageous as with Australian black coals. The laboratory work, which includes the operation of a continuous experimental conversion plant provided by the Commission, is expected to be completed about June next.

At the request of the Commonwealth Government, Dr. Herman, during his visit abroad, acted as Australia's representative at the Chemical Engineering Congress of the World Power Conference held in London in June, 1936. Similarly, he represented the Commonwealth at the Third World Power Conference and Second International Congress on Large Dams, held at Washington in September, 1936. He also was the official delegate at these conferences of the Australian National Committee of the World Power Survey.

NEWPORT POWER STATION.

The Victorian Railways Commissioners, as well as this Commission, contemplate the installation of considerable plant at the Newport Power Station. The Commission's standard frequency is 50 cycles, which applies to its Newport "B" section of the station, while that of the Victorian Railways Commissioners (Newport "A" section) is 25 cycles. Frequency changers which are installed permit a limited exchange of electricity between the two

systems. In pursuance of its responsibilities under the State Electricity Commission Act 1928, the Commission has felt it incumbent on it to direct the attention of the Government to the fact that there is involved in the reconstruction of the Newport "A" station a question of co-ordination of the two State-owned electricity systems.

SPENCER-STREET POWER STATION OF THE MELBOURNE CITY COUNCIL.

During the year the Commission approved the installation of two new 5,500 kw. turbo-alternators at this power station to replace plant which has reached the end of its useful life. The installation of one new boiler to replace two old ones has also been approved. The approval given in each case was subject to the effective capacity of the station not being increased by any replacements.

ELECTRICAL DEVELOPMENT OF MILDURA AREA.

The Mildura City Council having obtained the Commission's approval of its proposals to apply for a new Order in Council extending its franchise in the district area for a period of twenty years and also extending the district area to embrace a further portion of the Mildura Shire, laid down a comprehensive programme for the development of electricity supply in the city and adjacent territory. This, it was indicated, would involve an expenditure of £81,000 on the installation of additional generating plant and the extension of distribution lines and their conversion from 6.6 kv. to 22 kv. During the year under review, the Council, with the Commission's consent, arranged to expend £46,600 on additional generating plant and £10,000 on extensions of its distribution lines, and it since has applied for consent to expend a further £12,700 on the conversion of the Red Cliffs section of the distribution system from 6.6 kv. to 22 kv.

ACQUISITION OF MARYBOROUGH UNDERTAKING.

With the approval of the Government, arrangements were concluded during the year for the extension of the Commission's system to Maryborough and to centres along the route of a proposed transmission line from Castlemaine to Maryborough. Under the agreement for acquisition the Commission assumes control of the Maryborough distributing system on the 1st October, 1937. Hitherto the distribution of electricity in Maryborough has been undertaken by the Maryborough Borough Council, which has been supplied with electricity in bulk by the Maryborough Knitting Mills (Cuttle) Ltd. This company has contracted to take the whole of its requirements of electricity from the Commission for a period of ten years, and its bulk supply contract with the Council, which had several years to run, has been cancelled by mutual consent. The purchase price payable by the Commission for the physical assets of the Borough Council's undertaking is £17,719, subject to adjustment for expenditure during the current financial year of the Council.

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

Graph No. 1 illustrates the growth of demand on the whole of the Commission's system for the last three financial years. The curve for the year 1936–37 is noteworthy insofar as it shows a conspicuous morning peak between 8 and 9.30 a.m. In a large measure this is accounted for by the more extensive use of radiators during winter mornings.

Graph No. 2 shows the predominance of the Yallourn Power Station as a supplier of energy, the whole of the increase in system loading being carried by this station, no additions having been made to installations in subsidiary power stations for some years. The system maximum demand, excluding Ballarat, Bendigo, and Geelong, was 162,290 kw., an increase of 14,390 kw., or 9.8 per cent., on that for 1935–36.

The total number of units of electricity supplied from all sources in Victoria is shown in Graph No. 3. The appreciable increase during the year was practically all supplied by the State Power System.

Graph No. 4 shows the energy generated by the Commission's major plants. A well-maintained rate of increase is disclosed. The load factor remained practically the same.

DISTRIBUTION OF ELECTRICITY.

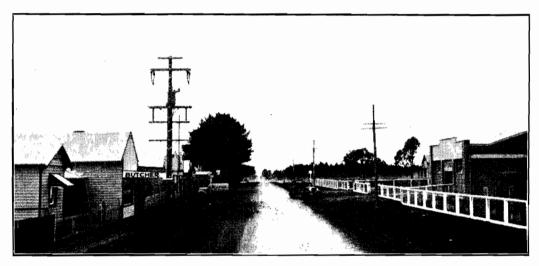
In addition to the City of Melbourne, the following undertakings in the metropolitan area are supplied by the Commission in bulk:—Those of the City Councils of Box Hill, Brunswick, Coburg, Footscray, Heidelberg, Northcote, Port Melbourne, Preston, and Williamstown. The local distribution of electricity to the ultimate consumer 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, Moama, and Berrigan, in New South Wales, and to the Carrum Electric Supply Company, who supplies Aspendale, Carrum, and Chelsea, and whose undertaking became 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.

RURAL ELECTRIFICATION IN VICTORIA.

A little over fourteen years have elapsed since the country areas of Victoria were first served by the State Power System. In that period, supply has been extended to 283 centres outside the metropolitan area, and of this number only 70 had any kind of electricity service previously. In addition, 2,615 farms of various classes have been connected to the Commission's distribution mains. Excluding the three provincial cities, the Commission's investment in rural electricity supply is roundly two and a half million pounds, or 33 per cent. of its total branch transmission and distribution expenditure. The number of rural consumers served is 18 per cent. of the total number taking supply from the State system.

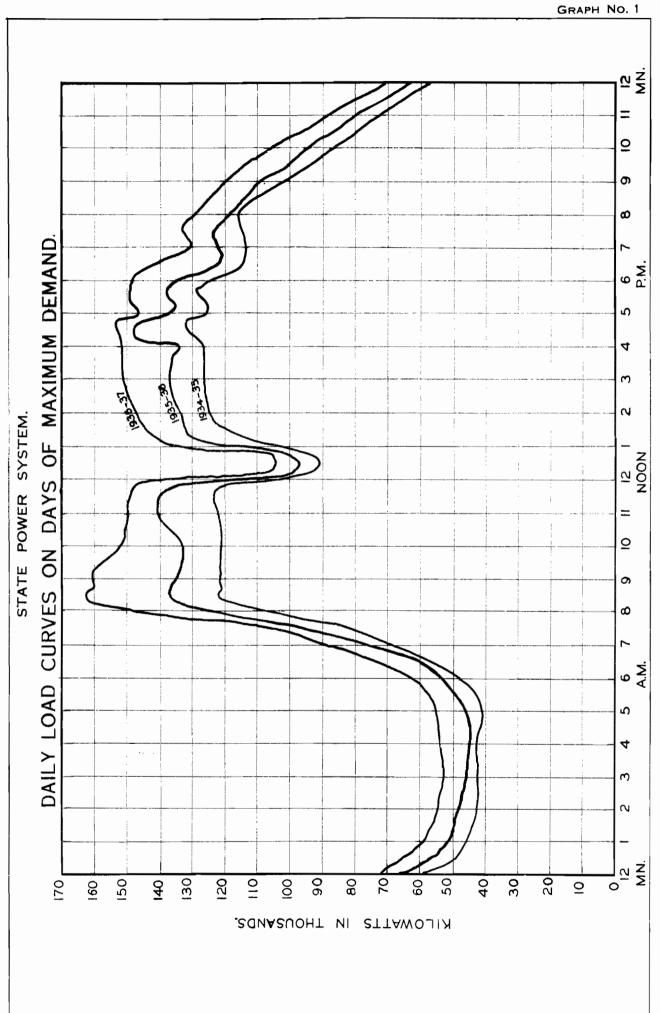


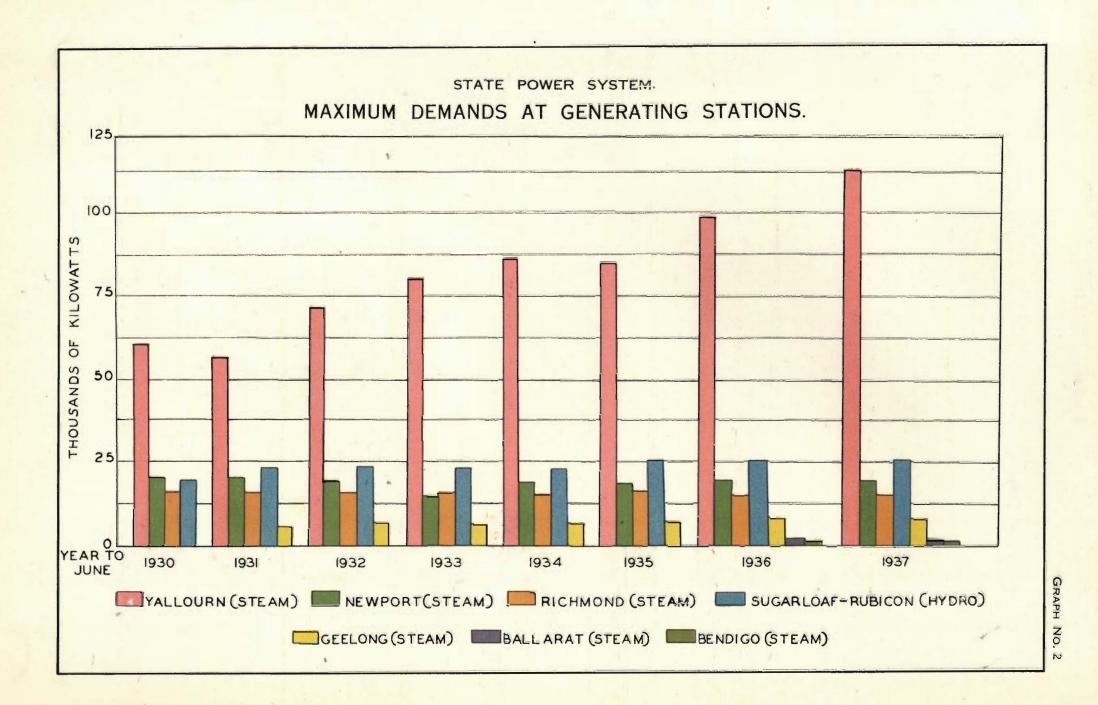
Many small townships benefit from the State system of rural electrification.

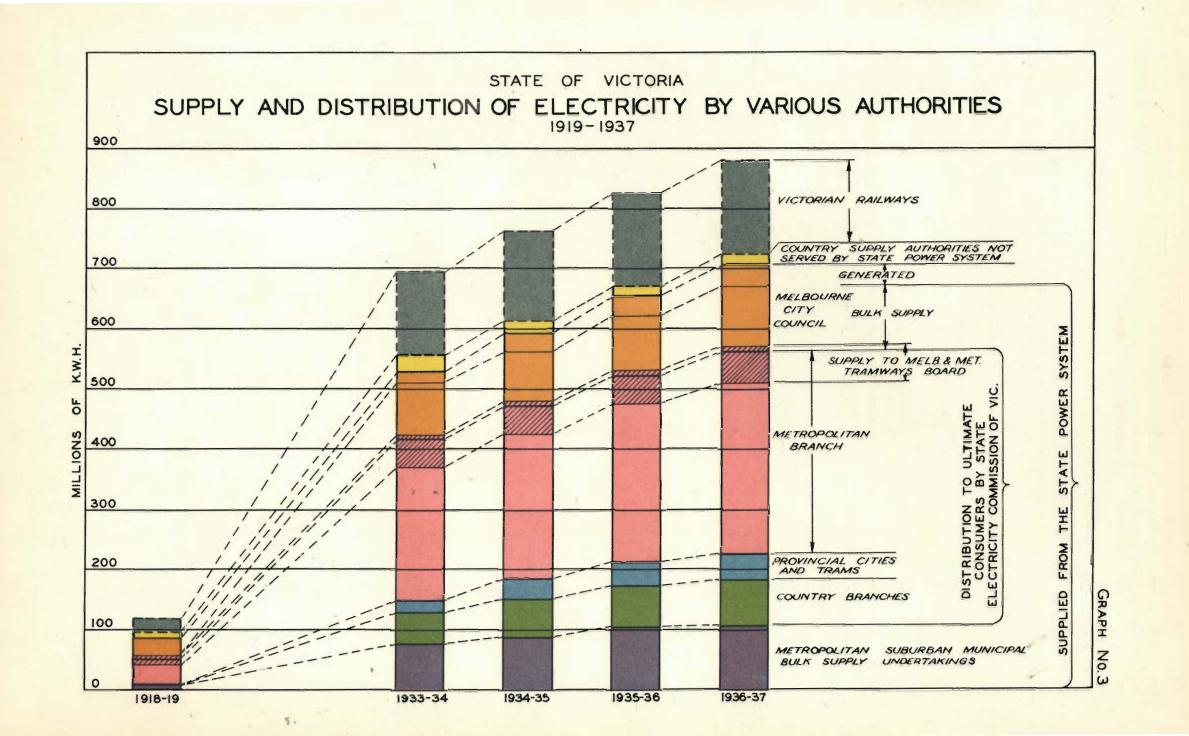
The State Power System extends to places as far apart as Port Fairy in the south-west, Echuca on the northern border, and Lakes Entrance in the eastern corner of the State. Over 4,000 route miles of transmission and distribution lines are in operation outside the metropolitan area, and several hundreds of miles are being added each year. A large percentage of the dairy farmers and orchardists in the districts to which its lines extend are served by the Commission. As the system is further extended, it is expected that ultimately many of the farms in the more sparsely populated areas will be brought within the ambit of its service; but this will necessitate planned expansion over a period of years and the development of additional applications of electricity of proved economic value to farmers.

Coincidently with making provision for urgent metropolitan requirements, the Commission, at the outset of its operations, laid its plans for rural electrification. In 1923, a year before electricity became available from Yallourn, a transmission line, fed from the Geelong power station, had been erected to serve the South-western District, and in Gippsland an extension had been built to serve a number of farms situated along the valley of the Tyers River. The South-western District towns of Colac, Camperdown, Terang and Warrnambool having been served with transmitted supply, a start was made in 1924 to extend into the rich dairying areas to the north of Colac and Terang, and very shortly many farms were connected. In the same year service was extended to the Gippsland towns of Moe, Trafalgar, Yarragon, Drouin, Morwell, Traralgon, Maffra and Sale, and farmers situated along the route of the transmission lines began to realize the potentialities of electricity for their motive power and domestic needs.

In 1927 the development of a simplified form of rural sub-station greatly accelerated progress in extending supply to isolated farms and to small rural townships. From that time, excepting for a few years when the prices of primary produce were very low, the rate of progress has increased each year.



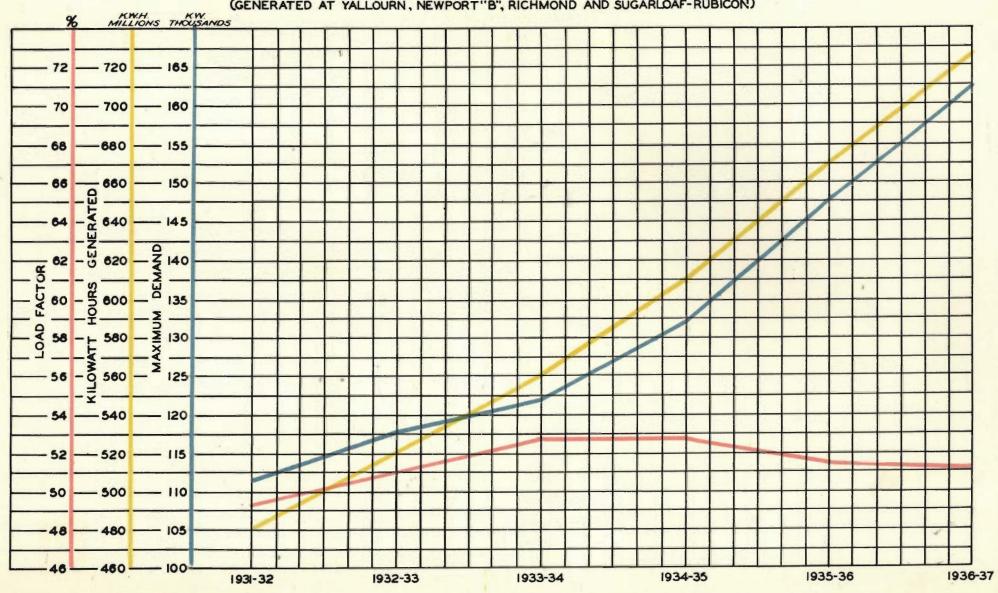




STATE ELECTRICITY COMMISSION OF VICTORIA

ENERGY GENERATED FOR MAIN SYSTEM

(GENERATED AT YALLOURN, NEWPORT"B", RICHMOND AND SUGARLOAF-RUBICON)



Organization.—For convenient administration, and to provide for geographical and other factors affecting the economics of distribution in different districts, the country areas have been divided into five branches, each under the control of a resident branch manager, who is fully qualified technically and commercially and vested with authority to deal expeditiously with any local problems that arise from time to time.

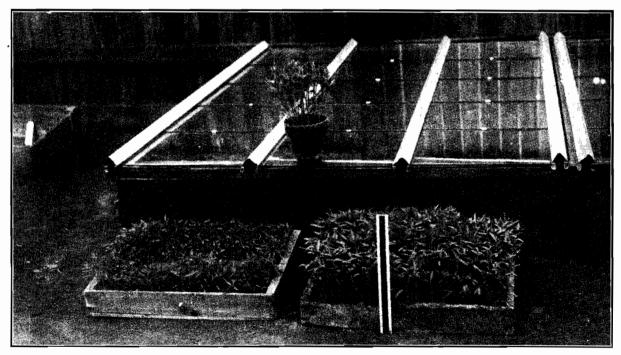


Electro-farming demonstration at a country agricultural show.

The branches are subdivided into districts, each under the control of an officer-incharge, who, with a small staff, resides permanently in the largest town in the district. For the convenience of consumers, the Commission maintains offices for ordinary business and showrooms for the display and demonstration of electrical labour-saving appliances and their sale on easy hire-purchase terms. Throughout the five country branches there are now 43 local district offices, each managed by an officer-in-charge. The whole of this organization is designed to give the rural dweller prompt and complete service, including that of investigating any proposal to extend the use of electricity.

Supply to Country Towns.—The list of country towns served by the Commission is contained in Appendix No. 5 of this report, which also gives details of the characteristics of supply and the tariffs in force in the various centres.

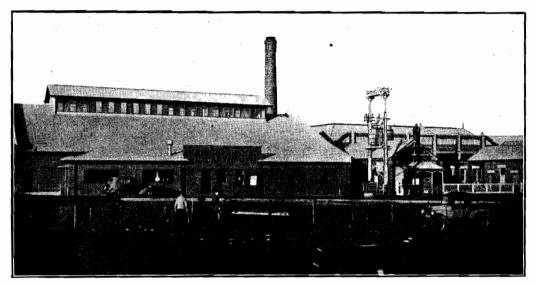
Of the 283 centres outside the metropolitan area that are now served by the State Power System, the great majority are too small to have ever encouraged either private or municipal undertakers to establish local plants.



Experimental work in seedling raising by electricity. (Left-hand tray is six weeks old from cold frame. Right-hand tray from electrical hotbed is three weeks old.)

In the 70 towns which previously were served by municipal or private plants, the system of supply, voltage and form of tariffs have been standardized. Appendix No. 7 of this report shows the electrical development which has taken place in these towns since the undertakings

therein were transferred to the Commission. The success which has attended the efforts of the Commission in its objective to make electricity available in the country areas at the lowest possible cost to consumers is amply demonstrated in this Appendix No. 7. It is there shown that consumers availed themselves of electricity to the extent of an eight-fold increase in consumption during the Commission's term of operation over that obtaining before acquisition, and at the remarkable reduction of three-quarters of the average cost per kilowatt-hour, viz. from 8 75d. to 2 45d.



A fully electrified butter factory at Noorat in the south-western district.

Supply to Country Industries.—In addition to the many butter, cheese and milk product factories served are such industries as woollen, flour, timber and chaff mills, quarrying, mining and sluicing plants, water, sewerage and broadcasting stations, canneries and cool stores, ice and engineering works, tanneries and sugar beet factories. In due course paper mills will also be served.

Electricity on the Farm.—The essential of a rural electrification structure is a system of main feeders penetrating the settled rural areas in such a way that spur lines can be branched off from them, so that finally it may become possible to reticulate even side roads on which farm frontages abut. However, main feeders are only made possible by the electrical needs of towns and townships and large industrial loads in the districts concerned; otherwise there would not be sufficient revenue to meet the major charges on expensive high voltage lines. The existence of a basic network of feeders serving the many towns and townships now being supplied has enabled the Commission to serve a large proportion of the farms situated within the reticulated areas.



An electrified farm homestead near Benalla.

The progress made in farm electrification during the last five years is illustrated in the following table:—

	Year	1	No. of farms connected to the Commission's Supply.
1932 - 33		 	1,069
1933 – 34		 	1,196
1934 – 35		 	1,375
1935 – 36		 	1,970
1936–37		 	2.619

At present it appears, from surveys of many farm extension schemes under investigation, that between 800 and 1.000 farms may be added during the 1937–38 financial year.



Egg grading and washing by electricity near Frankston.

For the business needs of the farmer, the electric milking machine furnishes perhaps the most valuable service, but dairy water heating, pumping, grinding, chaff-cutting, sawing, refrigerating, incubating, brooding, fruit-growing, shearing, &c., are all regular applications. Among the newest applications may be mentioned soil heating, steam sterilizing, orchard spraying, and electric light for promoting plant growth and egg production. In the domestic sphere, electric lighting, refrigeration, cooking and radio are among the most popular of the services which electricity renders.



The modern method of orchard spraying. The central spray plant is electrically operated.

Research.—A special section of the Commission's organization gives close study to the question of enabling electricity to be economically utilized to—

- (a) Improve farm products;
- (b) Increase production;
- (c) Reduce production costs:
- (d) Eliminate drudgery.

As it is necessary in some cases of farm extension schemes for a supply authority to expend £150 or more on mains to serve each consumer, it is apparent that farm electrification cannot be established on a basis of paying its own way if considered merely in terms of lighting; but, the fact that all farm electrical methods now in common use have been proved to be of economic advantage in farming operations is an encouraging feature of the research work that is being devoted to farm electrification in various parts of the world.

The officers of the Commission in country centres are frequently called upon to advise consumers in the application of electricity to farm processes, and so that they may be kept thoroughly informed they are brought together annually and afforded opportunities of examining equipment and methods, exchanging information and receiving the advice and help of specialist officers in the solving of the problems. Last year (by permission of the Council for Agricultural Education) the course was held at the Dookie Agricultural College.

From time to time reports and brochures are published dealing with the efficient application of electricity to farm requirements. Among these publications and reports are—

Tobacco Curing by Electricity.

The Electrical Operation of Fruit Cool Stores.

Manual of Electric Pumping (now out of print).

Electrical Power for Refrigeration.

Electricity on the Poultry Farm.

Electricity for Orchard Spraying.

Poultry House Lighting and Egg Production.

Lectures and addresses are frequently given to organizations concerned with agricultural and rural interests, while, during the past year, a complete rural electrical exhibit has been staged at seventeen agricultural shows.



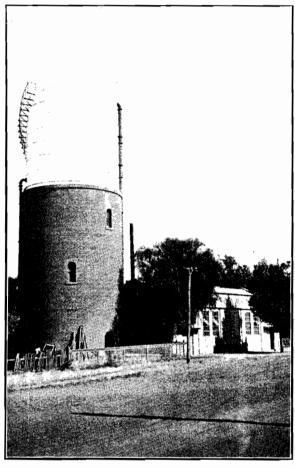
Electric light for horticulture. A night view of an experimental "out-of-season" rose plot.

Tariffs in Rural Areas.—The Commission's charges for electricity are kept under close and constant examination, with a view to periodical revision, for the purpose of returning any profits to consumers in the form of direct reductions in tariffs whenever and wherever possible. In addition to the direct reductions which from time to time have been made by the Commission in its charges to country consumers, there is the continuous decrease per kilowatt-hour that accrues from increased consumption under the Commission's form of tariffs. The direct and indirect reductions made since 1923–24—in which year the first of the country undertakings passed to State ownership—now represent a benefit to country consumers of not less than £330,000 per annum.

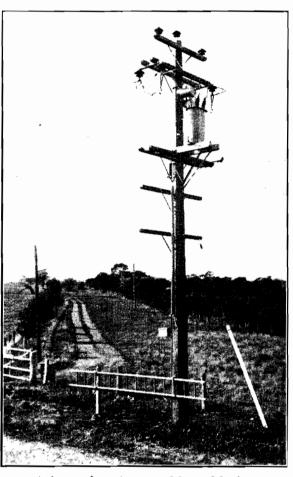
Under the Commission's present system, rural extensions pay their way without any burden being placed on other consumers or the taxpayer in general, and require no contribution from those who are unable to obtain or take advantage of electricity supply.

In any consideration of the Commission's tariffs, it should be borne in mind that on the average in the country there are only 14 consumers per mile of mains, compared with 82 per mile in the metropolitan area, and that the energy consumption per consumer in the country is only three-quarters of that of the individual metropolitan consumer. These differences are necessarily reflected in the tariffs for the country areas.

The Future of Rural Electrification.—The progressive extension of the Commission's inter-connected system in the country districts must continue to be based upon the general policy of extending the arteries of its supply system to those towns both within its supply branches and beyond in which electrical facilities are absent, inadequate or unequal in efficiency and economy to that which can be provided by the State. The prosecution of this policy will involve, as heretofore, transfer to the Commission of some isolated private and municipal undertakings during the next few years. The expanding network of main feeders will then make it economically practicable to build spur lines therefrom to serve the small townships and isolated farms, and thus link up every centre that can possibly be supplied.



Shepparton water supply. Electrically operated and fully automatic.



A farm sub-station near Mount Martha.

As the result of the orderly and comparatively rapid progress which is being made in the Commission's rural electrification projects, about 75 per cent. of the total population of the State already has reasonable access to electricity supply. The future rate of progress will be determined largely by the availability of funds, and on the ability of farmers and other rural dwellers economically to utilize and pay for electricity on a sufficient scale to make the service self-supporting.

TOWN OF YALLOURN.

Housing.—The number of new houses, either erected or in course of erection, during the year was 40, which will bring the total number of dwellings of all types in the town to 629. Twelve additional houses have been authorized.

The total population of the Yallourn territory at 30th June was 3,604.

Sewerage.—It is recognized that hygiene is all-important in regard to the town of Yallourn and the essential national services carried on there, and it is hoped that within a few years a scheme of sewerage in the Town will be carried out.

years a scheme of sewerage in the Town will be carried out.

Hospital.—The hospital and general medical services (including the health centre) are administered by the Medical and Hospital Society, and financed by regular contributions from all employees in the territory. The efficiency of all of the services mentioned is being well maintained. The daily number of occupied beds at the hospital increased from 24·6 in 1935–36 to 24·78 in 1936–37.

School Facilities.—The Technical School, which was opened in May, 1936, is now thoroughly furnished and equipped, and is functioning most satisfactorily. The number of full and part-time students who attended during the year ended 31st December, 1936, was 366.

Arrangements have been made by the Education Department for the Technical School to impart instruction in certain mathematical subjects to students from the Higher Elementary School, who thus will be afforded the opportunity to obtain the school leaving certificate. In the past, local students could not obtain this certificate without attending a high school, the nearest of which is Warragul.

INDUSTRIAL.

Disposition of Commission's labour forces at 30th June, 1937:—

		Operation.	(Construction.
Power Generation		316		262
Main Transmission Lines, Terminal Stations	and			
Sub-stations		218		324
Electricity Supply—Metropolitan Branch		351		118
Country Branches		338		148
Briquette Production and Distribution		360		
Coal-winning, Yallourn		403		1
General Services and Workshops, Yallourn		378	•	22
General Services and Workshops, elsewhere		649		85
Tramways—Ballarat, Bendigo and Geelong		176		72
Miscellaneous	٠.	89		
		$3,\!278$		1,032

Grand Total—4,310.

Alterations in base rates due to change in the cost of living figures added £21,514 to the Commission's expenditure during the year, while the additional expenditure resulting from new awards, variations, increased margins and reduction of hours was £24,837, making a total increase at the rate of £46,351 per annum.

ELECTRIC LIGHT AND POWER ACT 1928.

During the year two new Orders in Council under the Electric Light and Power Act were submitted for the approval of the Governor-in-Council, and granted to the following undertakers:—

				Tariff.		
Number.	Undertaker.	Area.	Light.	Power.	Minimum Charge per Month.	System of Supply.
230	Talbot Alluvials Ltd	Mining Lease, 6152, Parishes of Lillicur and Caralulup	Supply for	mining pur	poses only	
231	The Hamilton Electric Supply Co. Ltd.	Town of Coleraine and environs	s. d. 1 1 -0 10	s. d. 0 6 -0 1 65	s. d. 4 0	A.C. 230/400 volt

At the close of the financial year, 97 Orders-in-Council under the Electric Light and Power Act for the supply of electricity remained in force. Of these, 63 were issued to municipal councils (several of which operate under more than one order) and 34 to companies or persons.

Forty-eight electrical undertakings were inspected and reported on during the year in the exercise of the Commission's functions under the above Act. In addition, special inspections were made of newly-installed generating plant and of routes for high tension lines, while a number of complaints of unsatisfactory pressure regulation was investigated.

In December last, an Act authorizing municipal councils to undertake the installation of earth leakage switches, cited as the *Electric Light and Power Act* 1936, and to be read as one with the *Electric Light and Power Act* 1928, was passed.

Licensing of Electrical Mechanics.—The number of electrical mechanics' licences renewed and issued during the year is shown in the following list:—

	Grad	le.	 Electrical Mechanics' Licences Renewed for Year ending 31.12.37.	New Electrical Mechanics' Licences Issued for Year ending 31.12.37.	No. of Electrical Mechanics' Licences Concelled during Year.	Total number of Electrical Mechanics' Licences in force at 30.6.37.
" A "			 1,611	56		1,677
"B1"			 87	13	10	90
"B"		• •	 566	45	42	559
" C "			 198	61	17	242

In addition to the above, 376 permits to engage in electrical wiring work under certain conditions for a period of six months were issued. At the close of the year, 145 such permits remained in force. Limited permits to the number of 524 were also issued to enable the holders to carry out certain classes of electrical maintenance. Permits of this class are issued for periods not exceeding twelve months; at the close of the year 362 remained in force.

Two licensing examinations, each including theory and practice, were conducted during the year. The Board of Examiners reported a noticeable increase in the number of candidates who attended and a higher percentage of passes.

Legal proceedings were taken against eleven persons for breaches of the Licensing of Electrical Mechanics Regulations, and fines were inflicted in all cases.

Registration of Electrical Contractors.—Under the State Electricity Commission Act 1934, which vests in the Commission powers and responsibilities with respect to the registration of electrical contractors, registration was granted to 511 contractors in Class M (all classes of electrical wiring work) and 4 in Class P (work limited to certain provincial districts where the maximum declared pressure of supply does not exceed 250 volts). For various reasons, registration was cancelled in 15 cases.

Approval of Electrical Appliances and Equipment.—The Electrical Approvals Board constituted under the State Electricity Commission Act 1934 functioned continuously throughout the year. The constitution of the Board provides that in rotation two members shall retire each year. Under this arrangement, the terms of office of Mr. W. Cumming, representing the electrical contractors, and Mr. E. B. Foster, representing the electrical traders in Victoria, expired during the year, and both members were re-appointed for a period of three years from the 1st July, 1937.

A further group of equipment brought within the scope of Section 7 of the Act included soldering irons, wall switches, electric jugs, earth leakage circuit breakers (Class I.), electric radiators and electric irons (hand). These items were prescribed on 7th September, 1936, and restrictions in respect of non-approved articles in this group operate from different dates between 31st March, 1937, and 30th September, 1937.

In addition, plugs and flexible cords which are replacement parts of any appliance, fitting or other apparatus, were prescribed, restrictions operating in both cases from 31st March, 1937.

The list of articles brought within the scope of the Act up to 30th June, 1937, also includes lampholder adaptors, plugs, and sockets, plug socket adaptors, apparatus connectors, cord connectors, flexible cords, bread toasters, grillers, hand lamps, portable immersion heaters, kettles and saucepans, and decorative lighting outfits.

Up to 30th June, 1937, 574 applications for approval were received, and 354 were granted. 12284.—2

Installations.—Close association with supply authorities' installation inspectors was maintained throughout the year with the object of ensuring uniform application of the Wiring Regulations. The results of the check inspections made indicate that the standard of installation work is gradually improving.

Convictions were recorded in eight cases of breaches of the Wiring Regulations.

A large quantity of apparatus, including many luminous discharge signs, was examined while under construction at factories, prior to its despatch for connexion to installations.

The protection of electrical installations by means of earth leakage circuit breakers was generally brought into use throughout Victoria in respect of new residential installations. The demand for circuit breakers of this type was met by supplies from Australian and overseas manufacturers and a gradual improvement in the performance of the circuit breakers from both sources has been noticeable throughout the year. In April, 1937, the Standards Association of Australia issued an Approval and Test Specification for Earth Leakage Circuit Breakers, and this will be taken as the standard in future.

An amendment of the Wiring Regulations dated 26th October, 1936, provides for exemption from the necessity for installing earth leakage circuit breakers in certain specified districts where the water reticulation system is metallically continuous, and also in specified cases where the Commission (having ascertained that effective protection can be provided by other means) notifies the supply authority that earth leakage circuit breakers need not be installed.

In November, 1936, Parliamentary authority was granted to the Commission to install, without charge, earth leakage switches in existing installations, thus enabling the Commission to carry out a policy decided upon after conferring with the largest supply authorities in other States.

A special committee functioned throughout the year with the object of achieving, throughout Victoria, uniform solution of problems arising in the application of earth leakage protection; steps have been taken also to ensure, as far as practicable, that Victorian practice corresponds with that in other States.

Electrolysis Mitigation.—The Electrolysis Committee which directs matters connected with electrolysis mitigation consists 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.

Remedial measures applied under the supervision of the Electrolysis Research Engineer, operating in conjunction with the Technical Sub-Committee, again proved successful in reducing damage to underground structures by electrolytic corrosion. The number of faults reported during the year was 83, compared with 86 in the previous year, and 261 in the year 1929–30. Investigation of electrolysis conditions in the metropolitan area and research relating to the effect of soil conditions on corrosion were continued. Thirty-four additional drainage bonds were added during the year, bringing the total to over 200.

PART II.—FINANCIAL AND COMMERCIAL.

FINANCIAL.

ANNUAL ACCOUNTS.

The Balance-sheet and General Profit and Loss Account, and 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 £18,682,414, including the liability to the State of Victoria (£17,452,964), Unemployment Relief Fund (£100,000), State Electricity Commission of Victoria Loans (£1,055,360), and Municipal Debentures (£74,091).

In comparison with the loan indebtedness of the previous year, the figures show a net decrease of £124.334, accounted for as follows:—

	£
Reduction in indebtedness to State through National Debt Sinking Fund	97,715
Redemption of State Electricity Commission of Victoria Loans Nos. 1 and 2	10,820
Redemption of Sundry Municipal Debentures	10,871
Repayment of flotation expenses London Conversion Loan and exchange	
on Treasury Bills	4,928
	124,334

BORROWING POWERS.

The borrowing powers vested in the Commission by the State Electricity Commission Act (No. 4087) 1933, were exercised only to the extent of obtaining temporary accommodation from the National Bank of Australasia Ltd.

Under this heading mention was made in the Seventeenth Annual Report of a suit instituted against the Government, claiming payment of certain debentures in the currency of the country in which the debentures were held. This action, to which the Commission is a party, has not yet been settled and involves an amount of about £160,000.

RESERVES.

The Depreciation and Sinking Fund at 30th June, 1937, stood at £4,663,109, or an increase of £529,851 (including £132,566 interest on the Depreciation Fund) on the figure as at 30th June, 1936. Of this amount, £757,082 was to the credit of the National Debt Sinking Fund, £3,879,387 to the credit of the Depreciation Fund, which is invested in the business of the Commission, and £26,640 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 debenture issue.

In accordance with the Commission's decision to provide against unforeseen happenings of a major nature, the Contingency Reserve has been increased by a further £50,000. This fund is invested outside the business in trustee securities.

The Reserve for Doubtful Debts increased by £5,174, the usual provision being made at the rate of one quarter of 1 per cent. of revenue. The actual bad debts for the year amounted to £3,244, representing only 0.088 per cent. of a total revenue of £3,692,905.

CAPITAL EXPENDITURE.

After allowing for writings out and adjustments, the net addition to Fixed Capital Account was £772,073 against £661,158 for the previous year. The accounts mainly affected are as follow:—

							${\mathfrak E}$
Coal Supply Works							$22,\!264$
Power Stations-							
Yallourn							311,864
Transmission Lines-							
Yallourn to Yarrav	ille and I	Richmond					59,516
Metropolitan Area							24,480
Gippsland Branch	• •	• •		• •	• •	• •	34,404
Terminal Stations—							
Richmond							13,034
Transmission Sub-station	ns—						
Metropolitan Area							$69,\!233$
Distributing Systems—							
Metropolitan							114,788
Ballarat							18,985
$\operatorname{Bendigo}$	• •	• •	• •			• •	15,146
Castlemaine	••	• •	• •	• •	• •	• •	10,352
Eastern Metropolit Geelong	an	• •	• •	• •	• •	• •	$21,420 \\ 7,064$
Geelong Gippsland	• • •	• •	• •	••	• •	• •	20,552
North-east		• •				• •	11,070
South-west	••						24,522
Tagamangala							,
Tramways— Ballarat							11 501
Bendigo	• •	• •	• •	• •	• •	• •	$44,\!584$ $9,\!796$
	• •	• •	••	• •	• •	• •	0,100
General—							
Yallourn		• •					14,469
Metropolitan Area	• •	• •	• •	• •	• •	• •	26,643

CURRENT AND ACCRUED ASSETS.

The item "Sundry Debtors," while showing an increase of £22,976, retains the same ratio to revenue as last year.

RESERVE FUNDS.

Sinking Fund (£6,770) is the amount invested by Municipalities towards redemption of debentures, and accrues to the Commission upon redemption of such debentures.

Contingency Fund (£138,031) is the investment to date of the Contingency Reserve, plus interest accrued.

PROFIT AND LOSS ACCOUNT.

Compared with the previous year's figure, Electricity revenue has increased by £174,857. The loss on briquetting has decreased from £10,181 in 1935–36 to £6,470 in 1936–37. The net profit for the year is £38,901, against £27,728 in 1935–36. After deducting the profit for the year, the accumulated loss now stands at £682,882.

Interest charged through the accounts for the year showed an increase of £72,386, accounted for by the decision to include exchange as an interest charge, instead of as a special debit against Profit and Loss Account as in previous years.

STATE ELECTRICITY COMMISSION OF VICTORIA.

RESULTS OF OPERATIONS OF ALL ACTIVITIES.

SUMMARY OF INCOME AND EXPENDITURE.

Compared with Year Ended 30th June, 1936 + or –	$\frac{\mathfrak{t}}{174,857}$ 11,423 2,065 680	160,689 265,879 105,190 72,386	15,524 $101,185$ $3,550$	50,000 50,000 4,793 947 27,469	23,560 1,116
Yes 30th	+	++ +	+ +	1 +	++ +
	£ 3,339,560 337,227 76,142 7,500	3,760,429 2,010,516 1,749,913	:::	:::::	 1,711,012 38,901
Year Ended 30th June, 1937,	લ : : : :		. 480,571 		
Year End			•		
	् : : : :	:: ::	:::	50,000 57,965 10,640 18,840	43,984 8,504 5,000
	::::	:: ::	: : :	:::::	:::' :
	::::	:: ::	:::	:::::	 ent, 1922
	::::	:: ::	:::	:::::	t and Powor Act
	::::	:: ::	:::	:::::	Act by State
	::::	:: ::	:::	:::::	t and Powor Act
	::::	uses	: : :	:::::	s, &c. Light and £62,023 i
	::::	ion Experions	Fund smittance tions	 ures ses	stigations Electric libility of
	Electricity Supply Revenue Briquetting Revenue Tramways Revenue Miscellaneous Revenue	Total Revenue Less Working and Administration Expenses. Surplus on Operations Less Interest	Depreciation and Sinking Fund Exchange on Overseas Remittances Provident Fund Contributions	Available for Appropriation— To Contingency Reserve Special Reserve Special Writings off, &c Redemption of Debentures Loan Flotation Expenses	Water Power Investigations, &c Administration of Electric Light Liquidation of Liability of £62,0 Net Profit
s, 1936.	$\frac{\epsilon}{3,164,703}$ $\frac{348,650}{78,207}$ $8,180$	3,599,740 1,744,637 1,855,103	:::	:::::	 1,827,376 27,727
Year Ended 30th June, 1936.	્	932,914	465,047 $101,185$ $26,658$:::::	301,572
Year En	બ			100,000 50,000 62,758 9,693 46,309	20,424 7,388 5,000

COMMERCIAL.

ELECTRICITY SUPPLY.

Contributions of Consumer Classes to Year's Results.—The increase in sales of electricity during the year was 48,710,789 kwh. 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
1936 – 37	 	 	626,814,760

^{*} 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:—

				Indu	strial.		Comm	nercial.	Dom	estic.
_			1936 compare 1935	ed with	compa	5-36 red with 4-35.	1936-37 compared with 1935-36.	1935-36 compared with 1934-35,	1936-37 compared with 1935-36.	1935-36 compared with 1934-35.
Metropolitan Branch Provincial Cities—			+	8.9	+	5.5	+ 10.8	+ 9.8	+ 12.1	+ 9.5
Ballarat Branch				$\frac{8.5}{8.9}$		7·6 01·6*	$\begin{array}{c} + 12.4 \\ + 17.5 \end{array}$	$\begin{array}{c} + 11.7 \\ + 27.0 \end{array}$	$\begin{array}{c c} + 16.2 \\ + 21.4 \end{array}$	$\begin{array}{c} + \ 15 \cdot 0 \\ + \ 21 \cdot 1 \end{array}$
Bendigo Branch Geelong Branch†			+	1.4	+	$18 \cdot 9$	+ 5.4	+ 22.6	+ 11.8	+ 21.0
Country Branches	• •	• •		20 · 4	+	11.7	+ 15.0	+ 15.3	+ 15·2	+ 10.6
Overall	• •	• •	+	$9 \cdot 3$	+	8.3	+ 11.6	+ 12.2	+ 12.7	+ 10.2

^{*} This abnormal increase was 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 Branch 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 6.8 per cent. compared with 1935–36, or 56.2 per cent. compared with 1929–30. The following table shows the growth in the average yearly consumption per consumer since 1929–30:—

Year.					ge Consu mestic C	mption onsumer.
1929 – 30				333 k	ilowatt	t-hours.
1930–31				36 9	,,	
1931-32		• •	٠.	390	,.	,.
1932-33		• •		423	••	٠,
1933–34	• •	• •		446	••	,,
1934-35	• •	• •	• •	$\frac{466}{487}$,.	••
1935–36	• •	• •	• •	$\begin{array}{c} 487 \\ 520 \end{array}$,.	••
1936 – 37	• •	• •	• •	540	,•	,,

METROPOLITAN MUNICIPAL DISTRIBUTING AUTHORITIES.

The following table shows that all the metropolitan distributing authorities purchased more bulk energy in 1936-37 than in 1935-36:--

				1936-37 compared with 1935-36.		1935-36 compared with 1934-35.	
Box Hill City Council		 	 	-1-	13.1	+	12.2
Brunswick City Council		 	 		$9 \cdot 2$	4-	13.6
oburg City Council		 	 !	- 1-	$7 \cdot 3$	+	$16 \cdot 9$
Cootscray City Council		 	 		0.8	-+-	18.6
leidelberg City Council		 	 	+.	$9 \cdot 1$	-4	$14 \cdot 2$
[elbourne City Council		 	 	- <u> </u> -	$3 \cdot 3$	ļ -ļ-	16.5
forthcote City Council		 	 	+-	$8 \cdot 4$	-+-	$8 \cdot 1$
ort Melbourne City Council		 	 ;	+	10.5		17.0
reston City Council		 	 ;	+	$6 \cdot 4$	- - i-	$17 \cdot 2$
Villiamstown City Council		 	 	+	$2 \cdot 1$	1-	16.8
Ove	erall	 	 	+ .	5.1	+	15.3

COMMISSION'S ELECTRICITY SUPPLY UNDERTAKINGS FOR LOCAL DISTRIBUTION.

The following summary of statistical data relating to the ten electricity supply branches is extracted from information contained in this report:—

(a) The number of consumers on supply at the 30th June, 1937, totalled 235,141,

an increase of 10,370 (4.6 per cent.) over the previous year.

(b) Total sales of electricity for all purposes aggregated 408,982,221 kilowatt-hours, an increase for the year of 37,959,363 kilowatt-hours, or 10·2 per cent. The three major classes of supply, viz. Domestic, Commercial and Industrial, recorded increases of 12·7 per cent., 11·9 per cent. and 9·4 per cent. respectively.

(c) Revenue for the year amounted to £2,773,341, an increase of £154,126 (5.9 per cent.), while the introduction of further tariff reductions and modifications, together with the increased sales of electricity, resulted in the return per

kilowatt-hour sold decreasing by 0.067d. (4.0 per cent.) to 1.627d.

Metropolitan Branch.—The seventeen suburban municipalities formerly served by the Melbourne Electric Supply Company Ltd., together with Essendon–Flemington, Sunshine, Deer Park and portion of the Shire of Broadmeadows, are supplied by this branch.

Substantial increases in sales of electricity were recorded, the principal being—domestic, 12·1 per cent.; commercial, 10·8 per cent.; industrial, 8·7 per cent., and traction, 9·3 per cent.

The total number of consumers taking supply at the 30th June, 1937, was 166,496, an increase of 5,587 for the year. Domestic consumers increased by 5,627, and industrial by 54. Small decreases recorded in the commercial and public lighting classes were due to a reclassification of telephone cabinets. The connected load increased by 31,061 kilowatts, bringing the total to 515,681 kilowatts. The increase was contributed to mainly by the domestic class (20,668 kilowatts) and the industrial class (9,204 kilowatts).

Supply was made available to Campbellfield on the 14th September, 1936, and at the 30th June, 1937, 26 consumers were being served. As from the 1st July, 1937, the activities of the Metropolitan Branch will be extended to include the Western Metropolitan Branch.

Ballarat Branch.—This Branch includes the area formerly served by the Electric Supply Company of Victoria Ltd. It now embraces the City of Ballarat, the Borough of Sebastopol, portion of the Ballarat Shire and the Buninyong Riding of the Buninyong Shire. Included in the branch activities is the administration of the local tramway system.

The total number of consumers on supply (7,695) represents an increase of 336 for the year, of which 302 were in the domestic class, bringing the total number on supply under this classification to 6,074. The horse-power of motors connected increased from 5,506 to 5,846.

Additional sales of electricity, amounting to 16.2 per cent., 12·4 per cent. and 8·5 per cent. were recorded in the three main classes—domestic, commercial and industrial respectively. Extensions completed during the year numbered 22, the principal being to the township

Extensions completed during the year numbered 22, the principal being to the township of Buninyong, where 51 consumers were supplied initially, including the Eureka Lead Gold Sluicing Company. There are now 32 farms receiving supply in this Branch.

Bendigo Branch.—This Branch includes the area formerly served by the Electric Supply Company of Victoria Ltd. It administers the local tramway system, and its electricity supply area now embraces the City of Bendigo, the Borough of Eaglehawk (transferred to the Commission

on the 1st February, 1936), and portions of the Shires of Strathfieldsaye and Marong.

The number of consumers on supply at the end of the year was 7,081, an increase of 252. Sales of electricity improved by 11·3 per cent. overall, the principal increases being in the domestic class (21·4 per cent.), commercial class (17·5 per cent.), and industrial class (8·9 per cent.). The horse-power of motors connected increased by 1,354 to 8,154, mainly due to increased mining activity.

An extension of supply to the Epsom area was completed.

Castlemaine Branch.—With its administrative centre at Castlemaine, this Branch, which consists of 21 towns and localities, embraces an area of 166 square miles, with Harcourt at its northern extremity, and Keilor at its southern. Extensions were made to Newstead, Victoria Gold Dredging Company (Strangways), Bulla and Gisborne South, while at the close of the year work was progressing on the extension of transmitted supply to Maryborough.

Sales of electricity in the domestic and commercial classes again showed substantial improvements over the previous year, the respective increases being 16·1 per cent. and 19·0 per cent.

Consumers connected to supply increased by 346 to 3,205, or by 12 per cent., while the horse-power of motors increased from 974 to 1,319, an improvement of 35.4 per cent.

Eastern Metropolitan Branch.—Serving an area of 394 square miles, this Branch, with its headquarters at Dandenong, embraces 83 centres in an area extending from Healesville on the north to the seaside resorts skirting Port Phillip Bay as far as Portsea.

Extensions of supply were made to Mooroolbark, Heathmont, Monbulk, The Patch, Lockwood, and Red Hill. These extensions contributed largely towards an increase in consumers of 926, of whom 811 were domestic. The total number of consumers of all classes is 11,915. The total sales of electricity increased by 19·6 per cent. All classes contributed to the increase, the major contributors being domestic (13·3 per cent.), commercial (13·5 per cent.), industrial (10·6 per cent.), and bulk supplies (203·8 per cent.). The last-mentioned was in respect of supplies for a period of only four months.

Geelong Branch.—This Branch, which has Geelong and suburbs as its principal centres of supply, now serves an area of 92 square miles. It is bounded by Lara in the north, Torquay in the south and Queenscliff and Portarlington in the extreme east. It also administers the Geelong

Tramways.

Consumers on supply increased by 496 (4·3 per cent.) to 12,074, domestic consumers representing 96 per cent. of this increase. Sales of electricity were higher in all classes, the principal improvement being in the domestic class, in which the increase of 11·8 per cent. was partly attributable to the additional consumers connected to supply. An extension of supply was made to Zeally Bay, Torquay.

Gippsland Branch.—Serving an area of 542 square miles, this Branch, with its headquarters at Traralgon, extends from Tooradin to Lakes Entrance and Bruthen, and from Morwell, via Korumburra, to numerous centres in South Gippsland. The number of towns and localities on

supply now totals 88.

Extensions of supply to the townships of Dumbalk, Meeniyan, Stony Creek, Haunted Hills, and Catani, which were under construction at the commencement of the year, were completed, while new extensions were made to Briagolong, Tooradin, 3.UL Broadcasting Station (Warragul) and numerous small townships.

All classes contributed to a substantial increase in sales of electricity, the principal being the domestic (19.8 per cent.), the commercial (15.8 per cent.), and the industrial (10.7 per cent.).

Mainly due to the large number of minor extensions of supply which have been made, the number of consumers increased by 1,102 (13.3 per cent.), making the total on supply 9,402.

The increase in the horse-power of motors connected was 934, bringing the total at the end

of the year to 5,420 horse-power.

North-Eastern Branch.—This Branch covers an area of 390 square miles, extending from Echuca and Wodonga in the north to Alexandra in the south; it serves a total of 44 centres. The administrative centre is Benalla.

Supply was initiated in Dookie and Grahamvale and to a small group near Delatite. Bulk supplies to the Shire of Berrigan, New South Wales, were extended during the year to include the township of Barooga, thus increasing the number of New South Wales border towns served from four to five.

Sales of electricity showed further substantial improvement, the increases in the three major classes—domestic, commercial and industrial—being 20·5 per cent., 15·6 per cent. and 35 per cent. respectively. The increase in the industrial class is largely due to higher sales for mining purposes. The number of motors at the 30th June, 1937, was 1,182, an improvement of 139, for an increase in horse-power of 741. The kilowatts of connected loading increased from 21,388 to 24,172, and the number of consumers increased by 647 to 9,715. The domestic class accounted for 85 per cent. of the increase in the number of consumers.

South-Western Branch.—In the 170 square miles of territory covered by the operations of this Branch there are 39 centres, extending from Winchelsea to Warrnambool and Port Fairy,

and to Lorne in the south. The branch has its headquarters at Colac.

Consumers connected increased by 583 (9·7 per cent.) to 6,597, an extension to Lorne contributing 238 to the number on supply. The number and horse-power of motors connected increased respectively from 887 to 1,029, and from 4,176 to 4,970, while the connected load increased by 1,557 kilowatts to 14,300 kilowatts.

Sales of electricity increased substantially, the main contributors being the domestic

(9.0 per cent.), commercial (30.1 per cent.), and industrial (3.9 per cent.) classes.

Supply was made available in December, 1936, to Lorne, Anglesea and Airey's Inlet; in addition extensions were also made to Swan Marsh, Garvoc and Balintore.

Western Metropolitan Branch.—Covering an area of 30 square miles, this Branch supplies Werribee, Werribee South, Altona, Point Cook and Laverton.

Sales of electricity improved by 14.9 per cent., 11.7 per cent., and 9.0 per cent. in the domestic, commercial and industrial classes respectively, the increases in the domestic and industrial classes being largely due to the additional consumers taking supply. Increased consumption per consumer (domestic and commercial) and additional sales to the Aircraft Depots at Point Cook and Laverton (industrial) also contributed to the improvements.

Consumers on supply increased by 95 (11.0 per cent.) over the previous year, and brought

the total to 961.

COMMISSION'S ELECTRICITY SUPPLY UNDERTAKINGS FOR LOCAL DISTRIBUTION.

		ELEC	TRICIT	Y SUPPLY DE	PARTM	MENT-ALL BR	ANCH	ES.			
				1933-34.		1934–35.		1935-36.		1936-37.	
Population of Supply Are	99			876,218		968,575*		967,137*		980,695*	
Number of Consumers				192.271		212,935		224,771		235,141	
Percentage of Consumers				21.96		21.98		23.24		$23 \cdot 97$	
†Sales of Energy, in Clas	ses										
Bulk Supplies	••	• •	••	5,735,781	• •	5,843,348	• •	6,999,359	••	7,529,481	
Public Lighting Domestic	••	••	••	11,028,474 69,687,339	• •	11,653,587 $80,584,630$	• •	11,946,740 88,756,610	• •	$12,\!378,\!671$ $100,\!035,\!560$	
Industrial		••		180,810,718	• • •	203,113,490	• • •	219,995,534		240,551,086	
Commercial		• • • • • • • • • • • • • • • • • • • •	• • •	32,901,671		38,604,809		43,324,615		48,487,423	
				300,163,983	• •	339,799,864	• •	$371,\!022,\!858$		408,982,221	
Revenue				£2,265,233		£2,514,894		£2,618,599		£2,765,715	
Average Revenue per kw	h. sold	••		1.811d		1·776d.	• •	1·694d.	• •	1.623d.	
Number of Motors				21,007		24,260		26,608		29,006	
Total h.p. of Motors	••			173,699		191,550		204,503		213,516	
• P	opulation fig	rures cov	ver an are	a of supply one h	alf of a n	aile on each side of	high a	nd low tension mai	ns.		
 Population figures cover an area of supply one half of a mile on each side of high and low tension mains. 											
				RESULTS OF	EACH	BRANCH.					
				METROPOL	ITAN	BRANCH.					
				1933-34.		1934-35.		1935-36.		1936-37.	
Population of Supply Ar	ea			637,993		649,600		650,921		653.000	
Number of Consumers				149,338		154,489		160,909		166,496	
Percentage of Consumers	to Popula	ation		23 · 4		23.78		$24 \cdot 72$		25.50	
†Sales of Energy, in Clas	sses—					22.4.2					
Bulk Supplies Public Lighting	••	• •	• •	177,810 9,878,734	• •	$214,050 \\ 9,989,098$	••	426,409	• •	399 , 910 10,507,234	
Domestic		• • •		57,972,963		65,912,275		10,207,482 $72,149,950$	••	80,889,239	
Industrial	•••	•••		156,798,023		169,158,605		178,396,251	• •	194,207,628	
Commercial	••	• •		24,722,916		26,583,841		29,190,290		32,344,067	
				249,550,446		271,857,869		290,370,382		318,348,078	
Revenue				£1,716,276		£1,798,789		£1,830,962		£1,912,639	
Average Revenue per kw	h. sold			1.65d		1.588d.	• • •	1.513d.		1·442d.	
Maximum Demand in ky	v			77,630		83,423		89,412		98,942	
Number of Motors (exclu	iding Bull	Suppl	lies)	15,961	• •	17,193	• • '	18,552	• •	19,904	
Total h.p. of Motors (exc	luding Bul	ık Supp	olies)	139,317	• •	144,218	• •	150,994	• •	157,349	
- '											
-				* 'DATTA	DATE TO	D ANCH					
- '				* BALLA	RAT B			1007 04		1004.05	
	ea.					1934–35.		1935–36.		1936–37.	
Population of Supply Ar			::			$1934 - 35. \\ 41,750$		39,500		39,660	
Population of Supply Ar Number of Consumers . Percentage of Consumers	to Popul					1934–35.					
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla	to Popul			:: ::		$1934 - 35. \\ 41,750 \\ 7,098 \\ 17 \cdot 00$	• •	$39,500$ $7,359$ $18 \cdot 63$		$39,660 \\ 7,695 \\ 19 \cdot 40$	
Population of Supply Ar Number of Consumers Percentage of Consumers †Sales of Energy, in Cla Public Lighting	to Popul	ation	 			$1934-35. \\ 41,750 \\ 7,098 \\ 17 \cdot 00 \\ 155,777$:: ::	39,500 7,359 18 · 63 161,014		39,660 7,695 19·40 166,634	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic	to Popul	ation				$1934-35. \\ 41,750 \\ 7,098 \\ 17\cdot00 \\ 155,777 \\ 1,030,845$:: ::	$39,500$ $7,359$ $18 \cdot 63$ $161,014$ $1,185,907$		39,660 7,695 19·40 166,634 1,378,042	
Population of Supply Ar Number of Consumers Percentage of Consumers †Sales of Energy, in Cla Public Lighting	to Popul	ation				$1934-35. \\ 41,750 \\ 7,098 \\ 17\cdot00 \\ 155,777 \\ 1,030,845 \\ 1,657,171$		39,500 7,359 18.63 161,014 1,185,907 1,783,013		$39,660$ $7,695$ $19 \cdot 40$ $166,634$ $1,378,042$ $1,934,608$	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic Industrial	to Popul	ation	 			$1934-35. \\ 41,750 \\ 7,098 \\ 17\cdot00 \\ 155,777 \\ 1,030,845 \\ 1,657,171 \\ 1,466,597 \\ \hline$:: ::	39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497		39,660 7,695 19·40 166,634 1,378,042	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic Industrial	to Popul	ation				$1934-35. \\ 41,750 \\ 7,098 \\ 17\cdot00 \\ 155,777 \\ 1,030,845 \\ 1,657,171$		39,500 7,359 18.63 161,014 1,185,907 1,783,013		$39,660$ $7,695$ $19 \cdot 40$ $166,634$ $1,378,042$ $1,934,608$	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic	to Popul	ation				$1934-35. \\ 41,750 \\ 7,098 \\ 17\cdot00 \\ 155,777 \\ 1,030,845 \\ 1,657,171 \\ 1,466,597 \\ \hline \\ 4,310,390 \\ \hline$		39,500 7,359 18 · 63 161,014 1,185,907 1,783,013 1,638,497 4,768,431		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic	to Popul	ation	::			$1934-35. \\ 41,750 \\ 7,098 \\ 17 \cdot 00$ $155,777 \\ 1,030,845 \\ 1,657,171 \\ 1,466,597$ $4,310,390$ $£71,950$		$\begin{array}{c} 39,500 \\ 7,359 \\ 18\cdot 63 \\ \hline \\ 161,014 \\ 1,185,907 \\ 1,783,013 \\ 1,638,497 \\ \hline \\ \hline \\ 4,768,431 \\ \hline \\ \pounds 76,206 \\ \end{array}$		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic	to Popul	ation	::			$1934-35. \\ 41,750 \\ 7,098 \\ 17\cdot00 \\ 155,777 \\ 1,030,845 \\ 1,657,171 \\ 1,466,597 \\ \hline \\ 4,310,390 \\ \hline$		39,500 7,359 18 · 63 161,014 1,185,907 1,783,013 1,638,497 4,768,431		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic Industrial	to Popul sses—	ation Genera				1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic Industrial	to Popul sses—	ation Genera				1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 4,768,431 £76,206 3·836d. 1,649		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405 £79,334 3·579d. 1,783	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic Industrial	to Popul sses—	ation Genera				1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic Industrial	to Popul sses—	ation Genera				1934-35. 41,750 7,098 17 · 00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 · 006d. 1,663 999 5,333 on 1st July, 1934.		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic Industrial	to Popul sses—	ation Genera		Transferred to Con		1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 ·006d. 1,663 999 5,333 on 1st July, 1934. RANCH.		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405 £79,334 3·579d. 1,783 1,104 5,846	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic	to Popul sses—	ation Genera		Transferred to Con		1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 '006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35.		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405 £79,334 3·579d. 1,783 1,104 5,846	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic	to Popul sses—	ation Genera		Transferred to Con		1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 ·006d. 1,663 999 5,333 on 1st July, 1934. RANCH.		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic	to Popul sses—	ation Genera		Transferred to Con		1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 '006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405 279,334 3·579d. 1,783 1,104 5,846	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic	to Populsses—	ation Genera		Transferred to Con		1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 ·006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730 5,714 16·94		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 4,768,431 £76,206 3·836d. 1,649 1,032 5,506 1935–36. 31,324 6,829 21·80		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405 279,334 3·579d. 1,783 1,104 5,846 1936–37. 31,809 7,081 22·26	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic Industrial Commercial	to Popul sses—	ation Genera ation		Transferred to Con		1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 '006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730 5,714 16·94 317,973		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 	
Population of Supply Ar Number of Consumers . Percentage of Consumers † Sales of Energy, in Cla Public Lighting . Domestic	to Populsses—	ation Genera		Transferred to Con		1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 '006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730 5,714 16·94 317,973 818,289		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 	
Population of Supply Ar Number of Consumers . Percentage of Consumers † Sales of Energy, in Cla Public Lighting . Domestic	to Popul sses—	ation Genera		* BEND		1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 '006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730 5,714 16·94 317,973		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 4,768,431 £76,206 3·836d. 1,649 1,032 5,506 1935–36. 31,324 6,829 21·80 322,291 991,262 6,405,001		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 	
Population of Supply Ar Number of Consumers . Percentage of Consumers † Sales of Energy, in Cla Public Lighting . Domestic	to Popul sses—	ation Genera		* BEND	mmission	1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 '006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730 5,714 16·94 317,973 818,289 3,177,078 995,961		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 4,768,431 £76,206 3 *836d. 1,649 1,032 5,506 1935–36. 31,324 6,829 21·80 322,291 991,262 6,405,001 1,264,573		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405 £79,334 3·579d. 1,783 1,104 5,846 1936–37. 31,809 7,081 22·26 332,821 1,203,166 6,972,223 1,486,224	
Population of Supply Ar Number of Consumers . Percentage of Consumers † Sales of Energy, in Cla Public Lighting . Domestic	to Popul sses—	ation Genera		* BEND	mmission B	1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 '006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730 5,714 16 '94 317,973 818,289 3,177,078 995,961 5,309,301		39,500 7,359 18 · 63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405 £79,334 3·579d. 1,783 1,104 5,846 1936–37. 31,809 7,081 22·26 332,821 1,203,166 6,972,223 1,486,224 9,994,434	
Population of Supply Ar Number of Consumers . Percentage of Consumers † Sales of Energy, in Cla Public Lighting . Domestic	to Popul sses—	Genera		* BEND	mmission	1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 '006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730 5,714 16 '94 317,973 818,289 3,177,078 995,961 5,309,301 £61,628		39,500 7,359 18·63 161,014 1,185,907 1,783,013 1,638,497 4,768,431 £76,206 3·836d. 1,649 1,032 5,506 1935–36. 31,324 6,829 21·80 322,291 991,262 6,405,001 1,264,573 8,983,127 £78,319		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405 £79,334 3·579d. 1,783 1,104 5,846 1936–37. 31,809 7,081 22·26 332,821 1,203,166 6,972,223 1,486,224 9,994,434 £86,305	
Population of Supply Ar Number of Consumers . Percentage of Consumers † Sales of Energy, in Cla Public Lighting . Domestic	to Popul sses— to Popul sses— to Sto Popul sses— to Cocal to Popul sses— to Popul sses—	ation General		* BEND	mmission B	1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 '006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730 5,714 16 '94 317,973 818,289 3,177,078 995,961 5,309,301 £61,628		39,500 7,359 18 · 63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405 279,334 3·579d. 1,783 1,104 5,846 1936–37. 31,809 7,081 22·26 332,821 1,203,166 6,972,223 1,486,224 9,994,434 £86,305 2·072d.	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic	to Popul sses— vh. sold to Local to Popul sses— vh. sold to Local	General detion		* BEND	mmission	1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4·006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730 5,714 16·94 317,973 818,289 3,177,078 995,961 5,309,301 £61,628 2,786d.		39,500 7,359 18 · 63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405 £79,334 3·579d. 1,783 1,104 5,846 1936–37. 31,809 7,081 22·26 332,821 1,203,166 6,972,223 1,486,224 9,994,434 £86,305	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic	to Popul sses— wh. sold to Local to Popul sses— to Local to Local to Local to Local to Local www. (Local control to Local control to Local www. (Local www. (Local www. (Local www. (General	General detion		* BEND	mmission IGO B	1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 '006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730 5,714 16·94 317,973 818,289 3,177,078 995,961 5,309,301 £61,628 2,786d. 1,580 631		39,500 7,359 18 · 63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121	
Population of Supply Ar Number of Consumers . Percentage of Consumers †Sales of Energy, in Cla Public Lighting . Domestic	to Popul sses— vh. sold to Local to Popul sses— vh. sold to Local	General General General mitted ation		* BEND	mmission IGO B	1934–35. 41,750 7,098 17·00 155,777 1,030,845 1,657,171 1,466,597 4,310,390 £71,950 4 '006d. 1,663 999 5,333 on 1st July, 1934. RANCH. 1934–35. 33,730 5,714 16·94 317,973 818,289 3,177,078 995,961 5,309,301 £61,628 2,786d. 1,580		39,500 7,359 18 · 63 161,014 1,185,907 1,783,013 1,638,497 		39,660 7,695 19·40 166,634 1,378,042 1,934,608 1,841,121 5,320,405 £79,334 3·579d. 1,783 1,104 5,846 1936–37. 31,809 7,081 22·26 332,821 1,203,166 6,972,223 1,486,224 9,994,434 £86,305 2·072d. 1,420 1,840	

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

Transferred to Commission on 1st July, 1934.

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

				CASTLEMAIN	E BI	RANCH.				
					, D			1005 00		1006 95
				1933–34.		1934-35.		1935–36.		1936-37.
Population of Supply Area		• •		16,665	• •	17,330		18,286	• •	20,728
Number of Consumers Percentage of Consumers to		ion	• •	$\substack{2,541\\15\cdot25}$	• •	$\substack{2,674\\15\cdot 43}$	• •	$\frac{2,859}{15.63}$		$\substack{3,205\\15\cdot 46}$
Sales of Energy, in Classes		Jon	• •	. 10 20	• •	10 40	••	10 00	• •	10 40
				114,485		113,200		117,919		138,577
				628,076		690,378	• •	766,315		889,684
~			• •	421,147	• •	470,509	• •	457,263	••	435,684
Commercial	• •			516,434	••	581,434	• •	673,003	• •	801,060
				1,680,142		1,855,521		2,014,500		2,265,005
-						200.000		200 207		
	1.1	• •	• •	£30,155 $4 \cdot 307 d$.	• •	£30,206 3·907d.	• •	£30,605 3:646d.	• •	£34,332 $3 \cdot 638 d$.
Average Revenue per kwh. Maximum Demand in kw.				599		669		686		774
NT 1 635				201		204		211		250
m	• •			1,011	••	849	••	974	••	1,319
			EAS	TERN METRO	POLIT	AN BRANCH,				
				1933-34.		1934-35.		1935-36.		1936-37.
Population of Supply Area				58,800		58,800		48,990		50,762
Number of Consumers				9,232		10,082		10,989		11,915
Percentage of Consumers to				15.7		17.15		22 · 43		23 · 47
Sales of Energy, in Classes	_							004 500		000 500
Bulk Supplies	• •	• •	• •		• •	<u> </u>	• •	$324,703 \\ 269,607$	••	$986,526 \\ 325,002$
Public Lighting Domestic	• •	• •		$\frac{232,365}{3,477,038}$	• •	3,891,722		209,607 4,403,994	• •	325,002 4,988,717
Industrial				2,300,701		1,345,673		1,610,491	• •	1,780,996
Commercial				1,612,159		2,522,957		2,889,864		3,280,602
				7,622,263		8,009,810		9,498,659		11,361,843
Paranua				£99,037		£106,227		£114,221		£126,871
Revenue Average Revenue per kwh.	sold			3·118d.	••	3·183d.	• • •	2·886d.		2.680d.
Maximum Demand in kw.		•••		2,852		2,955		3,384		3,911
Number of Motors (excluding		Supplies)	551 3,330		533 3,316		$\frac{602}{3,582}$		672 3,895
				GEELONG.	BRA	NCH.				
				1933–34.		1934-35.		1935-36.*		1936–37.
Population of Supply Area				45,000		45,000		54,680		54,800
	٠			9,629	• •	9,970	• •	11,578		12,074
Percentage of Consumers to †Sales of Energy, in Classes	Popula	tion		$21 \cdot 79$	• •	22.16	• •	21 · 17	• •	22.03
Public Lighting				224,832		227,607		256,956		263,030
Domestic		••		2,253,064		2,454,602		2,970,012		3,320,779
Industrial				12,049,433		12,315,124		14,642,582	• •	14,834,902
Commercial	••	••	••	2,035,034	• •	2,201,204	••	2,697,752	••	2,843,785
				16,562,363	••	17,198,537	••	20,567,302		21,262,496
Revenue				£136,265		£139,445		£160,322		£162,055
Average Revenue per kwh.		• •		1·975d.	• •	1·946d.	• •	1·871d.	• •	1·829d.
Maximum Demand in kw.	• •	••	• •	4,261	••	4,474	• •	$\substack{(a)\ 5,220\ (b)\ 297}$	• •	$egin{array}{c} (a) \ 5,914 \ (b) \ 350 \end{array}$
Number of Motors			٠	1,861		2,058		2,365		2,510
Total h.p. of Motors				17,058		17,488		18,996		16,830
* Bellari	ne Penins	ula was t		d to Geelong Branch		South-Western Brane e Peninsula,	nch at t	he beginning of the	year.	
				a deciong.	Benuith	o I om nous.				
				GIPPSLAN	D BR					
				1933-34.		1934-35.		1935-36.		1936-37.
Population of Supply Area			• •	34,210	••	38,075	• •	40,575	• •	43,795
Number of Consumers Fercentage of Consumers to	Popula	 ation		6,758 19 · 75	• •	$\substack{\textbf{7,320}\\19\cdot 22}$	•••	$rac{8,300}{20\cdot 46}$		$9,402 \\ 21 \cdot 47$
†Sales of Energy, in Classe	s									
Public Lighting	••			202,364	• •	209,292	• •	217,804	• •	221,853
Domestic	• •	• •	• •	1,838,133 $3,552,113$	••	1,969,347 4,010,108	• •	2,291,254 3,550,767	• •	2,744,753 $3,931,079$
Industrial Commercial		• • •		1,184,726	• •	1,326,166		1,738,804	• •	2,013,808
, commercial	••			6,777,336		7,514,913		7,798,629		8,911,493
Revenue	٠٠, .	• •		£83,045	• •	£88,666	• •	£96,354	• •	£108,295
Average Revenue per kwh	, sold	••		2·94d. 2,335	• •	2·832d. 2,620	• •	2·965d. 2,730	••	2·917d.
Maximum Demand in kw. Number of Motors			• • • • • • • • • • • • • • • • • • • •	2,335 797	• • •	882	• •	2,730 1,049	• •	3,207 1,382
Total h.p. of Motors				4,002		4,111		4,486	• •	5,420
				,		,		,		,

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

Commission's Electricity Supply Undertakings For Local Distribution—continued.

NORTH-EASTERN BRANCH.

1095 96

1026 27

1000 04

			1933-34.		1934-35.	1935-35.		1930-37.
Population of Supply Area			43,050		43,390	 46.561		48,752
Number of Consumers			7,497		8,005	 9,068		9,715
Percentage of Consumers to Po	nulation		17·4		$18 \cdot 45$	 $19 \cdot 48$		$19 \cdot 93$
†Sales of Energy, in Classes—	Paration	• • •		• •				
Bulk Supplies			5,557,971		5,629,298	 6,248,247		6,143,045
Public Lighting			190,273		206,500	 229,413		250,065
Domostio			1,625,645		1,853,488	 2,158,906		2,601,457
Industrial		• •	2,429,803		6,975,455	 8,795,157		11,869,539
Commencial	• • •	• •	1,559.2 6 9	• •	1,669,358	 1,947,215		2,251,933
Commerciai	• • •	• •	1,000,200	•	1,000,000	 	• •	
	-		11,362,961		16,334,099	 19,378,938		23,116,039
Revenue			£111,553		£128,319	 £147,412		£163,692
Average Revenue per kwh. sold	• •	• •	2·356d.		1 · 885d.	1·826d.		1·700d.
Maximum Demand in kw		• •	3,159	• •	4,558	 5.162		6,323
				• •	,		• •	1.182
Number of Motors (excluding I			710	• •	803	 1,043	• •	
Total h.p. of Motors (excluding	Bulk Supp	lies)	3,822		5,906	 7,852		8,593
_	-							

SOUTH-WESTERN BRANCH.

			1933-34.	1934-35.	1935-36,*	1936-37.
Population of Supply Area			 36,200	 36,600	 32,000	 32,562
Number of Consumers			 6,526	 6,778	 6,014	 $6,\!597$
Percentage of Consumers to	Pop	ulation	 18.03	 $18 \cdot 52$	 18.79	 $20 \cdot 26$
†Sales of Energy, in Classes						
Public Lighting			 163,725	 162,986	 142,276	 150,620
Domestic			 1,678,156	 1.730,616	 1,588,838	 1,732,242
Industrial			 2,528,433	 3,080,160	 3,192,222	 3,316,643
Commercial			 1,067,220	 1,064,343	 1,032,371	 1,342,984
			5,437,534	 6,038,105	 5,955,707	6,542,489
Revenue			 £78,438	 £78,299	 £71,428	 £78,115
Average Revenue per kwh.	sold		 3·462d.	 3·112d,	 $2 \cdot 878 d$	 2·866d.
Maximum Demand in kw.			 (a) 1.870	 (a) 1,820	1,940	 2,140
			 (b) 260	 (b) 236	 **	 _
Number of Motors			 831	 843	 889	 1,029
Total h.p. of Motors			 4,234	 4,392	 4,176	 4,970

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

WESTERN METROPOLITAN BRANCH.

				1933-34.		1934-35.		1935 - 36.		1936-37.
Population of Supply Area				4,300		4,300		4,300		4,827
Number of Consumers				750		805		866		961
Percentage of Consumers to		tiou		$17 \cdot 44$		18.72		$20 \cdot 14$		$19 \cdot 91$
tSales of Energy, in Classes	s— -									
Public Lighting				21,696		21,696		21,978		22,835
Domestic				214,264		233,068		$250,\!172$		$287,\!481$
Industrial				731,065		923,607		1,162,787		1.267,784
Commercial	• •			203,913	• •	192,948	••	252,246	• •	281,839
				1,170,938		1,371,319		1,687,183		1,859,939
Revenue				£10,464		£11,365		£12,770		£14,077
Average Revenue per kwh.	sold			2·146d.		1.989d.		1·817d.		1·816d.
Maximum Demand in kw.				405		448		565		596
Number of Motors				95		102		146		156
Total h.p. of Motors	••	• •	• •	925	••	1,017	••	1,137	••	1,140

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

PROMOTION OF BUSINESS.

Domestic Class.—It was mentioned in the Seventeenth Annual Report that, while steady progress was being made in building up the domestic consumers' use of electricity, the average use in residential premises connected to the Commission's mains was still much below that which is common in households in progressive countries overseas. For the year ended 30th June, 1936, the average consumption per domestic consumer in the Commission's areas had increased by 21 kwh. to 487 kwh. This year, the average extent of increase has been 33 kwh. per consumer, making the average consumption per consumer 520 kwh. Although this is an improvement on last year, the position is not yet satisfactory. in view of the favorable nature of the Commission's

It is pleasing to note that electrical water heating is developing at a steady pace, the increase in consumption being 20.8 per cent. over the previous year.

Industrial Class.—The net increase in electric motors connected amounted to 9,000 horse-power, including new premises, extensions to existing plants and conversions from other forms of power. Although this increase is less than that of the previous year, it represents the great bulk of the increased motive power installed in factories within the Commission's territory during the year, and, having regard to the aggregate of installations in course of erection but not actually completed at the close of the year, the position is very satisfactory.

In the electric heating field no individually large installations were connected during the period, although arrangements are in hand for the installation of several large furnaces in the near future. Progress in respect of the smaller class of electric heating business was satisfactory, the amount of new loading connected exceeding that of the previous year, while there has been evident a growing appreciation of the advantages of electricity for heating purposes.

Mining.—At the end of the year, 65 consumers were taking supply for mining purposes, and sales of electricity to this class of consumer amounted to approximately 13·5 million kwh. representing an increase of 32 per cent. for the year.

Rural.—Rural development is specially dealt with in Part No. I. of this Report.

Exhibitions and Demonstrations.—The principal activity under this heading during the year was the "Art in the Home" Exhibition held in the Electricity Supply building from the 11th February to the 25th March, with the object of demonstrating to architects, artists and the public generally the decorative value of electric light in the home. Attended by approximately 8,000 persons, including many architects and architectural students, the Exhibition, which was of a unique and original character, created wide interest and was productive of very good results.

A new innovation for demonstrating the electrical idea in the rural areas is a portable exhibit of rural and domestic equipment. This was a feature at the principal agricultural shows throughout the various country branches. The exhibit, which proved very popular, both with the public and the agricultural societies, has a full programme for the coming season.

Educational Films.—An extensive programme, embracing lectures, demonstrations, and the presentation of the Commission's sound films in schools, has been carried out during the year, and this section of the Commission's educational work has functioned most beneficially and satisfactorily. The films are also available to organizations generally, and have been largely availed of, so that, in all, over 100,000 people have viewed them.

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 38 per cent. since 1924–25, revenues having increased by only 102 per cent. for an increase in consumption of 226 per cent. Calculated on sales of electricity during 1936–37, the decrease in the average selling price per kilowatt-hour since 1924–25 represents an annual benefit to consumers of £1,685,000. To this benefit direct reductions in tariffs have contributed £292,000 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 1936–37:—

	Year.		Total Retail Sales in kwh.	Revenue.	Average Selling Price per kwh.
1924-25 1936-37		• •	124,536,000 406,272,000	£ 1,358,000 2,750,000	$2 \cdot 62 ext{d}. \ 1 \cdot 62 ext{d}.$
			Increase $281,736,000 = 226\%$	Increase $1,392,000 = 102\%$	Decrease 1d. = 38%

In the domestic class specifically, the reduction in the average selling price per kilowatt-hour is 51 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 1936–37	••		26,583,000 100,994,000	£ 600,000 1,109,000	5·42d. 2·63d.		
			Increase 74,411,000= 280%	Increase 509,000 = 85%	Decrease 2·79d. = 51%		

During the year, direct reductions were made in schedule tariffs corresponding to a total saving to consumers of approximately £44,000 per annum when based on the consumption at the time the reductions became effective.

In addition, the Commission decided to introduce reductions in tariffs with effect from 1st July, 1937. The saving to consumers thus caused is £26,000 on the basis of their consumption at 30th June, 1937, this bringing the total saving to consumers from tariff reductions approved during the year to £70,000.

The nature of the reductions, together with the dates on which they become effective, is:—

1st July, 1936.

Metropolitan Branch (then Metropolitan Electricity Supply).

(a) Public lighting tariffs were reduced by 5 per cent.

Geelong Branch (then Geelong Electricity Supply).

- (b) Geelong proper—The prescribed hour water heating tariff was reduced from 0.6d. to 0.5d. per kwh.
- (c) Geelong proper—Power and heating and all purposes (power, heating and lighting) tariffs in block form were introduced for commercial and industrial consumers.
- (d) Bellarine Peninsula—The prescribed hour water heating tariff was reduced from 0.75d. to 0.5d. per kwh.

South-Western Branch.

(e) The prescribed hour water heating tariff was reduced from 0.75d. to 0.5d. per kwh.

1st October, 1936.

Metropolitan Branch (then Metropolitan Electricity Supply).

(f) The price for the first block of the commercial and industrial lighting traiff was reduced from 5.0d. to 4.5d. per kwh. and the size of the first block from 500 to 200 kwh. per month.

(g) The price for the first block of the commercial and industrial all purposes tariff was reduced from 5.0d. to 4.5d. per kwh. and the size of the first block from 500 to 200 kwh. per month, together with re-arrangement of the second and third blocks.

(h) The commercial cooking tariff was reduced from 1·25d. to 1·0d. per

1st January, 1937.

Metropolitan Area.

(i) The standard bulk supply tariff to metropolitan municipalities was reduced from £9 per kw. M.D. per annum +0.225d. per kwh. to £9 per kw. M.D. per annum +0.2d. per kwh.

1st July, 1937.

All Branches.

(j) Abolition, in the case of standard schedule tariffs, of meter rental, other than for two-rate meters.

Ballarat and Bendigo.

(k) Commercial and industrial supplies—Alteration to power and heating block tariff "C" and introduction of an all-purposes tariff in block form.

Ballarat Branch.

(l) Reduction of prescribed hour rate under Option II. of tariff "C" to 0·35d. per kwh., and introduction of standard extra-metropolitan prescribed hour water heating tariff of 0·5d. per kwh.

Country Branches.

(m) Commercial and industrial supplies—Withdrawal of power and heating two-part tariff and power flat tariff and introduction of power and heating and all purposes tariff in block form.

BRIQUETTE DISTRIBUTION.

Sales	 • •	• •	 374,033 tons
Revenue	 		 £337,227
Expenditure	 		 £343,697
Loss	 		 £6,470

All charges, including interest and depreciation, are covered by the expenditure, and the net loss is £3,711 less than in 1935–36.

Steady business at the same level of selling prices was done in both the industrial and household markets. Total sales showed an increase of 37,546 tons, compared with 1935–36.

TRAMWAYS.

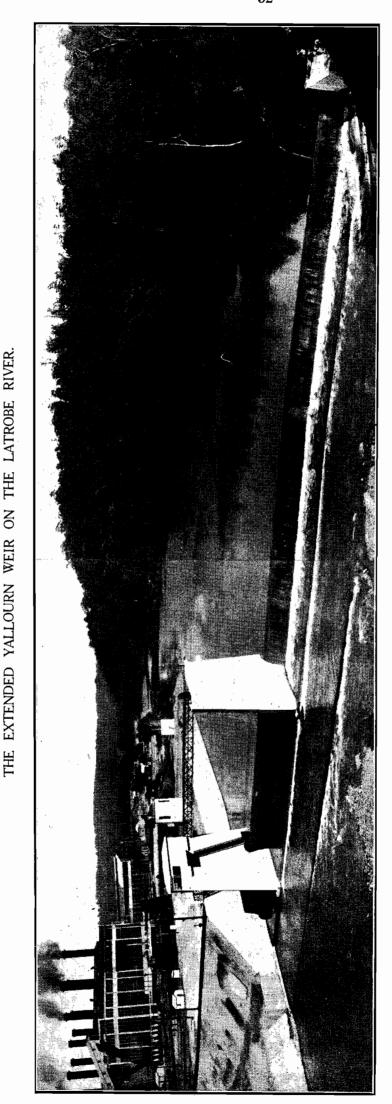
Losses on the tramway undertakings at Ballarat, Bendigo and Geelong, were £4,553, £3,039 and £18,649 respectively, totalling £26,241 compared with £21,066 last year.

The total revenue amounted to £76,141, a decrease of £2,066, or 2·6 per cent., compared with 1935–36. The decrease is due to a decline of about 2½ per cent. in the number of passengers carried. This is a disturbing factor, especially as interest and depreciation charges will come into the accounts next year in respect of the reconstructed tramways in Ballarat and Bendigo. As losses are a charge against electricity supply in each centre, it is only by the fullest possible patronage of the tramways on the part of residents that losses on the operation of the systems can be reduced to a minimum, thus permitting maximum reductions to be made in electricity tariffs. The expenditure during the year on all three systems increased by 3·1 per cent. from £99,273 to £102,382. This was due to additional maintenance work in Geelong and increases in wages.

Reconstruction work has proceeded satisfactorily at Ballarat and Bendigo, and at the close of the year very little remained to be completed. The introduction of new loops and overhead gear at Ballarat has considerably improved the service. At Bendigo the reconditioning of the overhead gear is nearing completion, and this will finish the Bendigo reconstruction programme.

The rolling stock at the three cities was not increased during the year, but six old type trams were replaced in Ballarat by a more modern type.

The following works which were not provided for in the Commission's original programme of tramways reconstruction in Ballarat are being carried out with the assistance of grants from the Unemployment Relief Fund, following upon the urgent representations of the Municipal Councils respectively concerned:—Reconstruction of the complete route of the Sebastopol tramway, at an estimated cost of £13,000, towards which the grant was £4,500; Lydiard-street, Ballarat, from its former terminus to the New Cemetery at Norman-street, at an estimated cost of £5,926, towards which the grant was £2,000. In both cases, the Ballarat City Council has agreed that any losses on operation of the sections concerned shall be a charge against electricity supply in that city.



The photograph shows the extension rendered necessary by the widening of the river in the flood of December, 1934. In the extension a roller gate, 100 feet long and 9 feet in diameter, is installed between two 50 feet concrete piers. Electrically-operated lifting gear, situated on top of the southern pier, can raise the gate a maximum of 36 feet. The gate is for the purpose of regulating the level of the river, at the weir, for the supply of circulating water for the Yallourn Power Station. At times of high river level the gate can be raised above flood waters to give them an uninterrupted passage. The old section of the weir has been modified to conform to the extension, and a new concrete apron for the full width of the river has been constructed on the downstream side.

PART III.—DESIGN, CONSTRUCTION, AND OPERATION.

COAL SUPPLY.

YALLOURN OPEN CUT.

Overburden Removal.—The quantity of overburden removed during the year was 1,364,700 cubic yards (previous year 993,210 cubic yards). At the end of the year the area of the cut had increased from 226 acres to 250 acres at grass level, and from 198 acres to 227 acres at the surface of the coal.

Coal-winning.—The coal won during the year amounted to 3,099,784 tons (previous year 2,988,430 tons). The total coal excavated from the cut since the beginning of operations is 24,081,015 tons. Of the coal won during the year, 1,684,019 tons went to the power station and 1,415,765 tons to the briquette factory.

Boring.—Twenty-four exploratory bores at 600 feet intervals 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 184 feet of coal, covered by an average of 43.56 feet of overburden.

POWER PRODUCTION.

YALLOURN POWER STATION.

Maximum load during year	 	 113,000 kw.
Generated during year	 	 481,039,800 kwh.
Received from Briquette Factory	 ••	 50,159,500 kwh.
Total	 	 531,199,300 kwh.

The maximum demand on the station was 14,000 kw. more than in the previous year. The generated output was 40,770,100 kwh. more than in 1935–36, while 2,820,300 more kwh. were received from the Briquette Factory. On several occasions, the daily output of the Yallourn Power Station exceeded 2,000,000 kwh.

The third 25,000 kw. turbo-alternator for the extended station will be ready for operation in January, 1938, in which year the fourth set of similar size will also be installed, thus completing the plan providing for an installation of 100,000 kw. of generating plant in the extended station.

The transformer capacity has been brought up to that of the generators in the station, by the installation of a third main transformer, stepping up from 11 kv. to 132 kv.

Boiler Plant.—To meet the growth of demand, and following the installation of No. 8 (25,000 km.) turbo-alternator in 1935, the erection of four new boilers in the extended station was actively proceeded with, and at the close of the year three of them had been put into service, while the fourth was nearing completion. This leaves two boilers to be erected so as to complete the ten with which the extended station is to be equipped. The work of erecting the two remaining boilers will be started in November, 1937.

In addition to the construction work associated with increasing plant capacity, as mentioned in Part I. of this report, much has been done to improve operating processes, including dust and cinder elimination from flue gases; means for the chemical treatment of boiler feed water and ash disposal; completion of the work of erecting a 100-ton mechanically-operated roller gate at the weir for regulating the river level as required for condensing water purposes at the power station; and the provision of remote indicating and recording instruments for circulating water control.

NEWPORT "B" POWER STATION.

Maximum load during year	 	 19,000 kw.
Generated during year	 	 27,224,775 kwh.

The station operated satisfactorily throughout the year. Towards the close of the year, a start was made with the preparation of a site for a second boiler house, and the plan provides for the new boilers and a 30,000 kw. turbo-alternator to be ready for operation by the winter of 1939.

RICHMOND POWER STATION.

Maximum load during year 15,400 kw. Generated during year 25,300,000 kwh.

The station operated satisfactorily throughout the year.

SUGARLOAF-RUBICON HYDRO-ELECTRIC STATIONS.

Maximum load during year ... 25,490 kw. Generated during year 141,411,600 kwh.

The various stations operated satisfactorily throughout the year.

MAIN TRANSMISSION AND TERMINAL TRANSFORMATION.

Modifications of the 66 kv. line from Thomastown Terminal Station to Sugarloaf-Rubicon are being made to permit of "live-line" work being carried out on all structures. Steel masts and crossarms are being substituted for wood in situations where access to the line is difficult.

and crossarms are being substituted for wood in situations where access to the line is difficult.

Good progress has been made at Yallourn and at the Richmond Terminal Station with the installation of 132 kv. switchgear for the second 132 kv. transmission line from Yallourn to Richmond. This switchgear is of a unique design, developed in recent years, and known as the convector type. Its special feature is a small porcelain switch chamber mounted on a larger porcelain base, which houses the current transformers. As a result of the special arc control employed, the quantity of oil required is much less than in the conventional oil circuit-breaker.

CENTRAL SUPPLY.

The metropolitan underground network of 22,000-volt cables functioned without any electrical troubles. The injection of petroleum oil into the cables was continued during the year. Three oil circuit breaker timers have been completed and put into service.

Five new sub-stations, aggregating 42,500 kva. were erected and put into operation during the year. One of 20,000 kva. was erected in a residential locality of North Fitzroy, and as usual, is designed to harmonize with the architectural features of the neighbourhood.

There has also been an extensive re-arrangement of switchgear in several of the older sub-stations, with a view of providing switchgear capable of the increased rupturing performance required by the growth of the system. At the same time, these sub-stations have been made more compact.

RESEARCH.

The automatic oscillograph has proved useful in obtaining data during fault conditions. It has now been installed at Dandenong Sub-station, Sugarloaf Power Station, and the Geelong Terminal Station.

A 1,000,000 volt impulse generator has been assembled and successfully operated at the Yarraville Laboratory. The D.C. charging unit used in conjunction with this generator has been mounted on a separate base, and is also used for high pressure tests on underground cables.

WATER POWER INVESTIGATIONS.

During the year the hydrological, geological, and meteorological investigations in regard to the proposed Kiewa hydro-electric scheme have been actively continued. Close attention has also been given to other potential hydro-electric sources of supply, particularly the Hume-Mitta, six automatic recording gauges being maintained on the Mitta River. Regular gaugings of all streams of potential value have likewise been maintained.

ELECTRICITY SUPPLY.

METROPOLITAN BRANCH.

The increases in the number of consumers and in the connected load necessitated the addition of thirteen sub-stations, totalling 5,895 kva. At the 30th June, 1937, there were 553 sub-stations in circuit, aggregating 140,670 kva. Twenty-six miles of high-tension lines and 110 miles of low-tension reticulation were added during the year, making the respective totals 716 miles and 5,760 miles.

The installation of earth leakage circuit breakers in existing installations was commenced during the year.

Three-phase Conversion.—Ever since 1924, when arrangements were concluded for the transfer to the State of the undertakings of the Melbourne Electric Supply Company Ltd., the work of converting from single-phase to three-phase the system of supply in the area embraced by the Company's Order has been proceeding. Under the direction of the Commission, special attention was devoted at the outset to the large industrial localities wherein the provision of the more efficient and economical system of three-phase in regard to electric motors was undertaken as a matter of urgency. Conversion work was slowed down during the depression period, but some semi-industrial localities were dealt with, and to-day the area which remains unconverted to the standard three-phase, 230–400 volt system is predominantly residential and commercial. A complete survey of this area was made in 1935–36, and a ten-year conversion programme drawn up. During the first year in which this programme has been in operation the expenditure on conversion has been £53,724, making the total to date £759,254. The Commission is annually making special financial provision for this work, so as to avoid its becoming a permanent capital charge.

BALLARAT BRANCH.

Nearly 9 route miles of 6,600 volt overhead conductor were erected during the year, bringing the total to 29·2 route miles. This increase is attributable to the extension of supply to new areas, the most important being Buninyong. The addition of three isolating switches on the existing high-tension lines will improve facilities for the operation of the distributing system, the reconditioning of which was proceeded with during the year.

The number of sub-stations in circuit totalled 35 and transformers numbered 36 (capacity 3,285 kva.). The increase in each instance was eight (535 kva.).

The changeover of certain areas from direct current to alternating current supply continued, the year's operations in this respect affecting 138 consumers and 11 motors (63 horse-power).

Bendigo Branch.

The reconstruction and reconditioning of low-tension reticulation continued in the Bendigo and Eaglehawk areas, together with the changeover from D.C. to A.C. supply. During the year 1,076 consumers were changed to A.C., leaving only 216, all in the city proper, on D.C.

Included in the cable miles of 6.6 kv. line converted to 22 kv. was the Kangaroo Flat feeder. The route miles and cable miles of 22 kv. line now total 21.34 and 65.57 respectively, representing increases of 3.86 route miles and 10.25 cable miles.

The Eaglehawk Power Station was closed down on the 23rd June, 1937.

Distribution sub-stations in circuit number 32, of a capacity of 5,635 kva. Two additional distribution sub-stations, aggregating 480 kva., were added during the year, bringing the total to 32 sub-stations, aggregating 5,635 kva. In addition, a new 300 kva. 22 kv. substation was erected at Hargreaves and Bull streets to replace the Hargreaves–Williamson and the Mundy–Mollison sub-stations, while the Kangaroo Flat, 3 B.O., High–Alder and Wade–High sub-stations were converted to 22 kv. construction.

CASTLEMAINE BRANCH.

A 22 kv. transmission line was erected between Castlemaine and Newstead, and the latter town reticulated and supplied in April, 1937. At the close of the year preparations were complete for giving supply to the Victoria Gold Dredging Co. at Strangways, by means of a 22 kv. extension from Newstead. Bulla (November, 1936), Gisborne South and Couangalt (May, 1937) and a group of mines at Chewton (June, 1937) were connected to supply during the year. Work in connexion with the extension to Maryborough is directed towards making transmitted supply available in that borough on the 1st October, 1937.

The 22 kv. transmission line to Lancefield has been thoroughly reconditioned, while a survey of all poles in the Branch is in progress, so that desapping and creosoting may be carried out where necessary.

Mainly attributable to the extensions of supply carried out, the route mileage of overhead conductor increased by 29·38 in regard to 22 kv., 1·57 in regard to 6·6 kv. and 16·09 in regard to low tension. Sub-stations increased by 17 to 66 and their capacity from 1,835 kva to 2,275 kva. Public lighting lamps increased from 598 (57·64 kilowatts) to 699 (70·42 kilowatts).

Eastern Metropolitan Branch.

Extensions of supply to Red Hill and Heathmont contributed largely to the increase of 26 73 cable miles of 22 kv. transmission line. The 21 36 cable miles of 22 kv. line erected during the year (mainly to supply Monbulk, Mooroolbark, and Lockwood) are being operated for the time being at 6 6 kv.

Sub-stations in operation increased by 22 to 259, and the capacity of transformers in circuit by 1,290 kva. to 8,312 kva. There were 28 new aerial type sub-stations erected during the year, representing a capacity of 375 kva.

A 22 kv. switching station was erected at Frankston.

GEELONG BRANCH.

An increase of 5.77 route miles of 6.6 kv. overhead conductor is accounted for by a number of short extensions carried out during the year, particularly to Zeally Bay, Torquay, and Mt. Duneed, and the erection of a tie line between the west and south area sub-stations. The Barwon Heads River crossing span of 400 yards was replaced during the year.

The number of sub-stations increased by six, and the capacity of transformers in circuit

by 530 kva., due to additional loading on the system, the figures at the end of the year being

91 and 9,162 respectively.

GIPPSLAND BRANCH.

An increase of 90.54 route miles of 22 kv. conductor is shown for the year, largely as a result of extensions to Dumbalk, Meeniyan, Stony Creek, Airly, Briagolong, and Tooradin. Ninety-eight sub-stations (1,438 kva. capacity) were erected, in consequence of the numerous extensions carried out and the increased loading generally. The total at the end of the year was 304, aggregating 7,999 kva.

To serve 377 farms connected to supply during the year, 87 rural type sub-stations were erected.

NORTH-EASTERN BRANCH.

Extensions to Dookie and Baddaginnie contributed to the increase of 23.7 route miles of 22 kv. conductor. At the close of the year, 22 kv. extensions to Grahamvale and from Violet Town to Euroa were in progress. Arrangements were in hand to close down the Euroa power station by the 19th July, 1937, from which date the system of supply is to be converted

The 6.6 kv. Mansfield feeder has been increased to a pressure of 22 kv.

Included in the increase of seventeen sub-stations for the year (capacity 1,700 kva.) are additional sub-stations at Shepparton and Benalla to cope with the increased load. There has also been an increase in the capacity of the Albury transmission sub-station of 1,000 kva. The number of sub-stations in operation total 135, aggregating 24,100 kva.

The Shepparton sub-station has been redesigned to provide for two 5,000 kva. on-load tap changing transformers and for control of future 66,000 volt feeders.

SOUTH-WESTERN BRANCH.

Sub-stations in circuit total 113 (108 distribution and 5 transmission), representing an increase of 33 distribution sub-stations for the year. The capacity of the transformers increased by 1,870 kva. to 13,132 kva.

An increase of 41.8 route miles of 22 kv. conductor is accounted for by the extension to Lorne in December, 1936, while 24.9 route miles of 6.6 kv. line were erected to supply Swan Marsh, Toolong-road, Garvoc, &c.

Corrosion by salt air necessitated the replacement of 5.76 route miles (17.3 cable miles) of S.C.A. cable with cadmium copper cable on the Port Fairy feeder, Allansford feeder, and the 44 kv. transmission line.

Extensions were made to the Belmont sub-station to provide for a 22,000 volt feeder to Lorne.

BRIQUETTING AND RESEARCH.

The output of briquettes for the year was 364,695 tons, representing an increase of 7,094 tons over last year's production of 357,601 tons.

The respective outputs for "H," "I," and "N" type briquettes were 114,724, 123,683, and 126,288 tons.

The electricity generated at the factory amounted to 68,367,460 kwh., of which 50,159,500 kwh. were delivered to the Yallourn power station. The energy consumed by the factory was 17,950,905 kwh.

The outputs of briquettes and of energy are the highest attained by the briquette factory for any one year. They were made possible by a complete absence of any major breakdown of plant or interruption to operation.

Except for cessations of operations for a fortnight at Christmas and on Sundays, the factory worked at full capacity throughout the year, including all holidays.

PART IV.

RETIREMENT OF COMMISSIONER.

After an unbroken period of eighteen years as a Commissioner, Professor Sir Thomas Lyle, who did not seek re-appointment, retired on the 9th January, 1937. At the last meeting of the Commission which he attended, on the 6th January, 1937, the Minister in Charge of Electrical Undertakings was present to convey to Sir Thomas Lyle personally the Government's appreciation of the great services to the State which he had given in his long association with the affairs of the Commission, and also in other important directions. The Minister said that no tribute he could pay could be too high in regard to the work which Sir Thomas Lyle had performed in the establishment and development of the Victorian electricity and briquetting undertaking. He was the first Chairman of the Electricity Commissioners, whose duty it was, in 1919, to submit to Parliament a report on the practicability of the utilization of the brown coal resources at Yallourn as the basis of a State-wide electricity supply system. That report was the real foundation of the national scheme as it existed to-day, and during the eighteen years of distinguished service which Sir Thomas Lyle had devoted to the scheme, the confidence in his knowledge, judgment, and integrity had increased, if that were possible. It was with the utmost regret that the Government accepted his retirement from active participation in the Commission's affairs, and he extended to him the Government's grateful thanks.

The Minister's remarks were supplemented by those of Sir Thomas Lyle's colleagues, who were no less appreciative of the services he had rendered to the Commission.

It was resolved that the report of the proceedings should form a permanent record, in testimony of the work performed by Sir Thomas Lyle. The following minute was also recorded:—

"The Commission records the retirement of Commissioner Sir Thomas R. Lyle with the utmost regret, feeling a severe sense of loss in no longer having the benefit of his knowledge, experience, and counsel. The Commission considers that the State, his colleagues and the members of the Commission's staff have been extremely fortunate that in the establishment and development of the State Power System and enterprises associated therewith such an able, distinguished, and public-spirited citizen as Professor Sir Thomas Lyle should have devoted so much of his time and knowledge to the undertaking, firstly as Chairman of the Electricity Commissioners from the beginning of 1919 (when the undertaking was inaugurated) until 1921, and then from 1921 until his retirement, as a Commissioner. The success of the undertaking is largely due to his profound knowledge, sound judgment, and breadth of vision, for neither time nor changing circumstances have made it necessary to alter the policy decisions in major matters made during the period of Sir Thomas Lyle's chairmanship.

Sir Thomas Lyle's name must for all time be specially identified with the undertaking."

APPOINTMENT OF COMMISSIONER.

Mr. Andrew W. Fairley was appointed a Commissioner for a term of five years from the 9th March, 1937, to fill the vacancy caused by the retirement of Sir Thomas Lyle.

STAFF.

The Commission again has pleasure in recording its appreciation of the loyal and efficient service rendered by the staff during a year of marked expansion and progress, including the preparation of several important projects.

We have the honour to be,

Sir,

Your obedient servants,

- F. W. CLEMENTS, Chairman.
- D. J. McCLELLAND, Commissioner.
- C. A. NORRIS, Commissioner.

ANDREW W. FAIRLEY, Commissioner.

W. J. PRICE,

Secretary.

22nd October, 1937.

APPENDIX No. 1.

STATE ELECTRICITY COMMISSION OF VICTORIA.

GENERAL PROFIT AND LOSS ACCOUNT FOR YEAR ENDED 30th JUNE, 1937.

STATE ELECTRICITY COMMISSION OF VICTORIA. GENERAL BALANCE-SHEET AS AT 30th JUNE, 1937.

PITAL LIABILITIES—	ધ્ય	£ 8. d.	£ 8. d.	FIXED CAPITAL—					^{નું} જ	ક. લે.
::	355,000 1,430,000			Coal Supply Works Briquette Works Power Stetions	::	::	::	::	943,941 16 9 1,274,239 2 9	
::::	2,006,000 1,576,000 1,447,000 1,569,500			Steam Hydro Transmission Lines	:::	:::	:::	: : :	8 13 13 13 13 13 13 13 13 13 13 13 13 13	
::::	1,841,000 1,918,334 1,750,000			Terminal Stations Transmission Sub-stations Distributing Systems		:::	:::	:::	12 22 22	
. : : :	2,050,000 1,874,000 1,160,000			Tramways Townships General	:::	:::	:::	:::	325,647 14 10 590,264 15 4 1,586,524 9 4	
: : : :	240,000 19,216,834			Unfinished Construction	: :	:	:	। :	679,068 7 7	
renditure under above Acts	101	10,876,334 0 0 1,250,000 0 0		Deduct Proportion o	of cost of ex	xtensions	extensions payable by	Con-	14 10	. c 916 667 16
	: :	co	ME SECTION	CURRENT AND ACCRUED ASSETS	SSETS-				1 60 16	c
	: : :	907,337 5 3 145.242 13 1		Sundry Debtors	::	: :	::	: :		
Deduct Redoemed or Cancelled Securities	\$1 :	181		Advances	and Accrued	Assets	:::	:::	9 9	E 620 1223
Advance from National Recovery Loan Fund Advance by Treasury from Public Account	;; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	17,421,831 18 5 100,000 0 0 31,131 13 6 17,552,963 11 11		RESERVE FUNDS— Sinking Fund Contingency Fund	::	::	::	::	6,769 14 3 138,031 18 2	
State Electricity Commission of Victoria Loans £1,082,000 Deduct Redeemed or Cancelled Securities 26,640	0 0	0 0 086 880	-	Suspenser—Overburden Removal and Disposal	and Disposal .	:	:	:	336,239 15 4	144,801 12 0
:		11	18,682.414 × 10	Preliminary Investigations Chargeable Work	ions	::	::	::	3,664 0 3 3,300 3 0	
:	:	93,530 4 4 17 929 7 5		Faid in Advance Accounts Unamortised Loan Flotation Expense Work in Procress	unts tation Expens	se :	:::	: : :	<u> </u>	
Sundry Creditors, recention Consumers' Deposits Service Charges received in Advance	:::	တ က		Amount charged to Commission by Treasury with decision of Cabinet, 22nd July, 1922	Commission abinet, 22nd	by Treasu July, 1922	ii.	accordance	ဗ	
Unclaimed Wages Consumers' Advances for Construction	::	$\begin{array}{c} 170 \ 12 \\ 9 \\ 12,420 \ 6 \\ 14 \ 138 \ 4 \ 4 \end{array}$		Hospital and Health Centre, Yallourn Miscellaneous Droft and Loss Account as at 30th Line 1936	Sentre, Yallou	m		: : %	26,134 15 2 69,434 12 11	
::	::	ကြေ		Less Profit for year 1936-37	1936-37	:		့ အ	989 889 o	
Salaries and Wages Accried Insurances, Telephone Charges, and Rents Accrued Miscellaneous Current and Accrued Liabilities National Bank of Australasia Limited	::::		401,476 6 9						ι	1,447,838 11 2
:::	₹ ::::	$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
		£	5,008,027 9 0							

There is a contingent asset and liability in respect of securities lodged as bona fides under Contracts to the extent of £19,730 8s. 5d., and held by the Bank on the Commission's behalf.

R. LIDDELOW, Manager.

H. S. KILFOYLE, Chief Accountant.

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, 1937. The values of the stores have been accepted on the certificates of the storescepers. 20th September, 1937.

J. A. NORRIS, Auditor-General.

APPENDIX No. 1—continued. STATE ELECTRICITY COMMISSION OF VICTORIA.

SCHEDULE OF FIXED CAPITAL AT 30th JUNE, 1937.

		DULE	OF _				A1 JUII JU	JNE, 1991.	
	. —	_				Exp	enditure during 1936-37.	Total Expenditure	at 30th June, 1937.
COAL SUPPLY WORKS-							£ s. d.	£ s. d.	£ s. a
Yallourn BRIQUETTE FACTORY—	VALLOUDN	••		••	• •		5,893 19 2 25,661 5 11	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	943,941 16
Power Stations—Stea		••	••	••	••		20,001 5 11	1,274,235 2 5	1,274,239 2
Yallourn	· ·					,	760,935 9 11	4,073,252 2 2	
Newport "B"	• •	••	• •				••	835,044 1 9	
Richmond Ballarat		· ·	• •		• •		13,602 15 2	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Bendigo						Cr.	6,851 14 11	25,997 2 10	
Geelong	• •	••	• •	• •	• •		1,653 6 0	330,723 13 8	5,450,838 3
Power Station—Hyde	ю		••	••			4,929 15 11	808,821 13 11	808,821 13 1
RANSMISSION LINES-		1					50 504 ID 0		000,021 10 1
Yallourn to Yarrav Newport to Yarrav		mond	• • •	• •	• •		59,534 13 9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Yarraville to Geelor	ng					1	579 2 0	27,843 2 10	
Sugarloaf to Thoma Sugarloaf-Rubicon	stown	• •	• •	• •			$5\ 15\ 5$	202,070 1 7	
Central Supply Syst	tem				• •		52,186 11 8	$33,684 7 7 \\ 589,857 9 6$	
Castlemaine Branch							7,404 15 2	162,716 9 5	
Eastern Metropolite	n Branch	••	• •	••	• •	!	6,348 7 0 34,410 13 5	93,854 6 11 $201,580 5 2$	
Gippsland Branch North-Eastern Bran	neh		• •		• • •		810 7 7	$201,580 5 2 \ 289,624 2 8$	
South-Western Bra	neh	::					11,855 4 10	120,030 13 1	
Western Metropolit	an Branch	••	••	••	• •		52 9 10	6,553 7 5	2,527,903 8
ERMINAL STATIONS-									2,021,000 A
Yarraville		• •	• •	• •		C.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	558,861 4 4	
Thomastown Richmond			• • •		• •	Cr.	$\begin{array}{cccc} 1,257 & 2 & 5 \\ 6,435 & 0 & 6 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Rubicon		::						68,421 6 0	
Geelong	••	••	••	• •	• • •		6,707 4 11	6,707 4 11	056 095 15
RANSMISSION SUB-STAT	rions—								956,937 17
Central Supply Syst	tem						93,858 9 0	581,384 17 6	
Castlemaine Branch		• •	• •	• •	• •	Cr.	$1,452 \ 13 \ 1$ $2,420 \ 9 \ 3$	27,838 19 6	
Eastern Metropolita Gippsland Branch	in manen					Cr.	2,124 0 10	1,065 16 4 $8,560$ 10 6	
North-Eastern Bran	ıelı					!	1,891 3 7	73,645 17 4	
South-Western Bra	neh	••	• •	• •	• •		2,305 11 6	57,114 15 8	749,610 16 1
ISTRIBUTING SYSTEMS	_	٠.							710,010 10 1
Metropolitan Branc			• •	• •		ĺ	129,733 16 7	3,829,673 0 7	
Ballarat Branch Bendigo Branch			• • •			:	12,628 0 5 16,300 12 8	$138,834 3 1 \\ 184,150 15 8$	
Castlemaine Branch							7,549 12 1	108,810 10 9	
Eastern Metropolite		• •	• •	• •		ì	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	383,347 3 7	
Geelong Branch Gippsland Branch	••						7,789 6 8 $22,059 17 8$	317,115 12 8 276,164 1 8	
North-Eastern Bran	ich					ļ	12,849 7 1	276,376 19 1	
South-Western Braz		• •	• •	• •			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Western Metropolit Yallourn Branch	an branch					ļ :	375 10 8	16,711 13 1	
Brown Coal Mine	••						107 3 9	1,805 6 4	
RAMWAYS								•	5,781,76 0 17
Ballarat							72,868 4 8	77,352 13 0	
Bendigo	• •	• •				Cr.	$42,122 \ 14 \ 5 \ 81 \ 0 \ 3$	45,464 15 5	
Geelong	••	• •	• •	• • •	• •	07.	91 U 9	202,830 6 5 	325,647 14 1
Yallourn							24,250 5 11	581,147 18 6	
Brown Coal Mine							••	9,116 16 10	590,264 15
ENERAL-									.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Metropolitan Brane			• •				$\begin{array}{cccccccccccccccccccccccccccccccccccc$	641,693 16 11	
Ballarat Branch Bendigo Branch	• •						286 15 11	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Castlemaine Branch	ı						$723 \ 16 \ 2$	5,020 9 11	
Eastern Metropolita Geelong Branch	ın Branch	• •					$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$23,337 10 1 \\ 23,972 14 6$	
Geelong Branch Gippsland Branch		• • •					2,613 3 2	8,983 19 7	
North-Eastern Brai	ich			••			2,395 11 4	19,982 18 10	
South-Western Braz Western Metropolit							$893 4 11 \\ 147 17 11$	13,667 19 11 232 10 10	
Yallourn Branch	··		::	::			60,146 13 1	497,341 2 11	
Metropolitan Area	••	• •	• •		• •		35,989 8 0	333,992 13 5	1 506 504 0
						1.6	633,269 12 0	20,996,490 15 8	1,586,524 9 20,996,490 15
NFINISHED CONSTRUCT	rion—					1,	000,200 12 0	, ,	, , ,
Beginning of year-	-Add				• •	1.4	215,699 4 10		••
,, ,,	Deduc t	• •	••				117,570 7 2	20,996,490 15 8	20,996,490 15
NEINISHED CONSTRUCT	ION					٤	11,010 1 Z	,	, ,
End of year—Add							379,068 7 7	679,068 7 7	679,068 7
	• ~			. ~		1,0	096,638 14 9	21,675,559 3 3	21,675,559 3
Deduct—Proportion	of Cost of E	xtensions	payable	e by Consu	mers		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	37,244 14 10	37,244 14 1
								21,638,314 8 5	21,638,314 8

STATE ELECTRICITY COMMISSION OF VICTORIA.

SCHEDULE OF DEBENTURES.

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

	Гови Хо.		Original Issue.	Rate	Term.	Due. Sinking Fund.	Redeemed to 30th June, 1937.	ned to	Outstanding at 30th June, 1937.
State Electricity Co. ". ".	State Electricity Commission of Victoria Loan No. 1		£ s. d. 600,000 0 0 382,000 0 0 100,000 0 0	>° ≈ ≈ →	Years. 20 20 15	1954 1 1954 1 1951 1	18,000 7,640 1,000	% 000 % 000	£ s. d. 582,000 0 0 374,360 0 0 99,000 0 0
	DEBE	DEBENTURES GUARANTEED BY THE	STATE ELECT	ELECTRICITY COM	COMMISSION	OF VICTORIA.	IA.		
Branch.	Undertaking.	Details.	Rate under Actual Financial Rate. Energency	Original Issue.	Date of Acquisition.	Outstanding at Date of Acquisition.	Redeemed Since Date of Acquisition.	Outstanding at 30th June, 1937.	Total Outstanding.
Metropolitan	Melbourne Blectric Supply Company	Electric First Mortgage Debenture Stock Gonsolidated Debenture Stock Gold Bonds General Mortgage Debenture Stock Debenture Stock	% % % % % % % % % % % % % % % % % % %	£ s. d. 250,000 0 0 0 250,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.9.30	\$\$\circ\$\$.\$\delta\$\$.\$\delta\$\$.\$\delta\$\$.\$\delta\$\$.\$\delta\$\$.\$\delta\$\$.\$\delta\$\$.\$\delta\$\$.\$\delta\$\$\$.\$\delta\$\$\$.\$\delta\$\$\$.\$\delta\$\$\$.\$\delta\$\$\$.\$\delta\$	£ s. d. 197,463 0 0 188,596 0 0 472,602 14 10 275,595 0 0 300,000 0 0	છે જે સ	# %
		•		0		14 10	1,834,256 14 10	•	
Bendigo	Eaglehawk	Marong Shire Loan No. 2 Eaglehawk Borough 6 8 8	COUNTRY. 58 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1,700 0 0 6,000 0 0 2,500 0 0 3,500 0 0 4,500 0 0	1.7.31	1,591 17 11 1,000 0 0 500 0 0 3,150 13 3 4,345 9 8	195 15 7 1,000 0 0 281 19 6 242 16 3 1,720 11 4	1,396 2 4 500 0 0 2,868 13 9 4,102 13 5 8,867 9 6	8,867 9 6
Castlemaine	Kyneton Sunbury Woodend	Gisborne Shire Loan No. 3 Kyneton Shire	<u>ಹೈಲ್ನೆ ನ ಕ್ಷ್ಮೆ 4 ಸಿಲ ನಿ ನಿ</u> <u>4 ಸಿಲ ನಿ ಕ್ಷ್ಮೆ 4 ಸಿಲ ನಿ ಸಿಲ</u>	12,000 0 0 3,800 0 0 5,000 0 0 2,000 0 0 2,000 0 0 1,500 0 0 1,000 0 0	1.10.28	781 15 5 10,830 0 0 3,084 15 2 2,500 0 0 750 0 0 1,500 0 0 1,000 0 0	1,336 × 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	254 14 8 8,860 0 0 1,748 7 0 500 0 0 450 0 0 1,500 0 0 14,313 1 8	14,313 1 8
				,					i

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

	2								
Branch.	Undertaking.	Details.	Actual Rate.	Rate under Financial Emergency Act.	Original Issue, Acquisition.	Outstanding at Date of Acquisition.	Redeemed Since Date of Acquisition,	Outstanding at 30th June, 1937.	Total Outstanding.
			0,	000	£ 8. d.	£ s. d.	£ 8. d.	£ s. d.	£ 8. d.
			COUNTR	-continued.					
Eastern Metropolitan	Dandenong	Dandenong Shire	Loar	 10 10	6,600 0 0 · 4,000 0 0 · 1.10.23	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,94 7 1 2,234 8 9	1.722 10 3	
	Frankston	Frankston and Hastings Shire	. :	5.0375	0 0	3,690 16	16]		
	:	,, ,, ,,		io r	0 0 21.2.	28 2,277 2 3	27	148 12 0	
	:	:	,, 13 04	5.0375	3,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	# C	= .	
	:			5.0375	0 0	15	· -	œ	
	Healesville	Healesville Shire	-	4.	0 0	6,215 0	C		
	:		— —	4,4	00	1,585 0	225 0 0	1,360 0 0	
	:			5.0375			0	: :	
	: :		- G	ıq	0 0	Ξ	=	2,454 19 8	
	Lilydale	Lilydale Shire	,, 16 62	5.0375	о с Ф с	2,869 12	790 8 0	2,079 4 7	
	Mornington	ngton		5.0375	1,200 0 0 1.8.30	9,135 630 0	0	>	
	: :			10	0 0	895 16	8	613 18 1	
	Ringwood and Croydon	Lilydale Shir		ນດຸນ	000	1,100 0	1,100 0 0		
				5.0375	4.1	. zo 1,200 0 0 0 1,200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1,200 0 0	
		:::			0	• =	9	0	
	Sorrento and Portsea	Flinders Shire	က က	7 Q	0 0	2,700 0		0	
	66		 5 4 6 5	5.0375	3,500 0 0 1.10.27	3,356 10 7	1,273 19 11	1,735 0 0 2,082 10 8	
	•			- '	(,			
					77,645 0 0	65,351 19 5	38,365 1 2	26,986 18 3	26,986 18
Nowth Restorn	Alexandra	Alexandra Shire	Loan No. 1 6	iç i	0 0 11.4	3,832 18	18	:	
TI DAGGET-TILION		Benalla Shire	¥ ≃	5.0375	3.000 0 0 1.5.3	3,000 0 0	000,000	•	
		Euroa Shire	 	ō ō	0 0 20.3	4	4	: :	
				5.425		967 5 10	967 5 10	:	
	:		, , ,	5.0370	1.500 0 0	# +	16		
	Mansfield	Mansfield Shire		10	0 0 1.6.	0		0	
			_	-# -#' \c	200 0 0		450 0 0	350 0 0	
	Woorooma	Rodnev Shire		 	. =	2,286 7	$1\overset{\circ}{2}$	14	
	Nathalia	Numnrkah Shire		4 12 E-	00	2,600 0	1,000 0	1,600 0 0	
			3 - 44	4	0	0	0	<u> </u>	
	Numurkan			4, 1 10)4	0 0	0	0		
	:	7	,, , , , , , , , , , , , , , , , , , , ,	5.425	3,000 0 0 15 10	1,922 4		1,405 12 11 864 4 11	
	Rutherglen	Kuthergien Borougn		5. 2.	0 0	26 296 1		* 2 <u>2</u>	
	Wangaratta	Wangaratta Shire		#7	0 0 12.3	27 6,078 12	17	15	
	: " A	Vorrewongs Shire	, ; ,	44	0 0 1.8.		0		
	тапамонва			4	0	ი;	Π;	=:	
	:	:	:	44	200 0 0	387 11 1 406 1 8	209 17 10	211 3 3	
	:			*	,	١		•	
					61,650 0 0	51,288 1 6	35,585 6 5	15,702 15 1	15,702 15
			-						

APPENDIX No. 1—continued.

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 Aequisition.	Outstanding at Date of Acquisition.	Redeemed Since Date of Acquisition.	Outstanding at 30th June, 1937.	Total Outstanding.
	-				, o	0 0	£ & d.		£ . 4.	E & d.	£ & &.	s. 3.
				Cot	INTRY—	COUNTRY—continued.						
Gippsland	Korumburra " Maffra Morwell	Korumburra Shire """ Maffra Shire Morwell Shire """	:::::::	Loan No. 4	स स स 10 स्था र्थ 1- 0	4 4 4 70 4 70 70 70 4 50 50 50	2,500 0 0 700 0 0 1,000 0 0 6,500 0 0 1,500 0 0 1,500 0 0	1.12.34	2,500 0 0 700 0 0 1,000 0 0 5,660 0 11 8,77 5 0 1,015 0 0	2,500 0 0 700 0 0 1,000 0 0 700 0 0 1,693 + 1 376 1 10 1,015 0 0 265 0 0	3.956 16 10 501 3 9	
						. '	14,400 0 0		12,717 6 6	8,249 5 11	4,468 0 7	4,468 0 7
South-Western	Camperdown Koroit Terang	Hampden Shire Koroit Borough Hampden Shire	:::::	Loan No. 1 3 1 2 2	ਚ ਚ ਚੀਂ ਚ ਚ	ਚਚਚੱਚਜ	8,000 0 0 1,400 0 0 6,500 0 0 3,000 0 0 1,500 0 0	8.1.24 1.12.28 4.3.24	2,600 0 0 750 0 0 4,000 0 0 1,600 0 0 850 0 0	2,000 0 0 650 0 0 2,300 0 0 1,300 0 0 650 0 0	600 0 0 100 0 0 300 0 0 200 0 0	
							20,400 0 0		0,0008,6	0 0 006,9	2,900 0 0	2,900 0 0
Western Metropolitan	Werribee	. Werribee Shire	::::	Loan No. 1	70 4 70 0 24 12 12	5 44 5 5 0375	4,000 0 0 1,000 0 0 1,000 0 0 1,000 0 0	10.4.24	2,200 0 0 818 1 5 856 16 2 760 0 0	2,200 0 0 425 4 6 397 1 3 760 0 0	392 16 11 459 14 11	
							7,000 0 0		4,634 17 7	3,782 5 9	852 11 10	852 11 10
	Total for Country	Country	:	:	:	:	226,245 0 0	•	175,026 16 5	100,935 19 6	74,090 16 11	74,090 16 11
	Total for Metropolis	Metropolis	:	:	:	:	2,013,769 0 0		1,834,256 14 10	1,834,256 14 10	:	:
	GRAN	GRAND TOTAL	:	:	:	:	2,240,014 0 0		2,009,283 11 3	1,935,192 14 4	74,090 16 11	74,090 16 11

APPENDIX No. 2.

STATE ELECTRICITY COMMISSION OF VICTORIA. OVERHEAD TRANSMISSION LINES.

	Description.			Erected d ended 30th	uring Year June, 1937.	Total E 30th Ju	rected to ne, 1937.
	2 cacrapuou.			Route Miles.	Cable Miles.	Route Miles.	Cable Miles.
132.000-Vol.	T TRANSMISSION I	INES.		! !			:
Vallourn-Y arraville					4	110	660
Yallourn-Richmond		•••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	240	80	480
	_						
METROPOLITA 22.000-volt Lines	N ELECTRICITY S						
5 6, 7 2 and 4 16 kV	Lines	••	• •	4 65	27:90	148 15	458 4
0, 1 2 and 4 10 KV	. Lines	• •	• •	5 .85	26 .01	266 '62	708 16
EASTERN M	ETROPOLITAN BRA	NCH.					
2,000-volt Lines				12 .42	26 .73	200 612	532 145
6,600-volt Lines				9.06	21 .36	116 . 527	293 115
		-		- 40	0		
	LARAT BRANCH.						
5,600-volt Lines		• •	• •	8.8	20.3	29 · 2	81 .75
Res	NDIGO BRANCH.						
22,000-volt Lines	DIGO DRANCH.			3.86	10 .25	21 .34	65 . 57
6,600-volt Lines	•• ••	• • • • • • • • • • • • • • • • • • • •	• • •	-1.49	-4·48	4.13	12:38
-,		••	••		-4 40	± 10	12 35
	ELONG BRANCH.						
6,600-volt Lines		••		5 . 77	5 . 5	115 . 916	381 .89
0							
CASTI 36,000-volt Lines	EMAINE BRANCH.					00.0	004:33
22,000-volt Lines	••	• •	• •	90.00	60:04	93.2	384 .66
6,600-volt Lines		• •	• •	29 · 38 1 · 5 7	69 · 94 4 · 70	100 · 154 1 · 57	279 · 792 4 · 70
O, O O O TAILOS		• • •	• • •	1 37	4 10	1 57	4 70
	SLAND BRANCH.						
22,000-volt Lines				90.54	187 · 7	499.98	1,321.82
6,600-volt Lines		• •		0.87	1 · 74	8.47	16.94
Name	Frammer Dr.						
NORTH 56,000-volt Lines	Eastern Branch	•				170 · 283	606.000
22,000-volt Lines		• •	• •	23 . 74	49:33	321 64	686 · 366 1,059 · 63
6,600-volt Lines		••	• •	-3·19	-3·23	321 64 4·40	13.95
.,,,		••	••	-3 19	-0 20	4 40	19 99
South-	WESTERN BRANCE	г.					
44.000-volt Lines						116.24	487.42
22,000-volt Lines	••			41.83	125.05	63.01	188.11
6,600-volt Lines	•• ••			24.88	70.27	133.06	337 106
117							
WESTERN A 22,000-volt Lines	IETROPOLITAN BR.			1.10	0.00	00.14	00.00
6,600-volt Lines		••	• •	1.10	2.20	23.14	66.66
0,000-voit Lines	••	••	••	0.19	0.38	4.99	9.88
	YALLOURN.						
11,000-volt Lines						1.415	8.49
			. ,				
	VILLE TO GEELONG	3.					
36,000-volt Lines		• •		· ·		39 · 34	118.02

SUMMARY OF OVERHEAD TRANSMISSION LINES.

		Des	cription.			Erected durin 30th Jun	g Year ended ne, 1937.		to 30th June, 37.
						Route Miles.	Cable Miles.	Route Miles.	Cable Miles.
132,000 volts			· · ·	·	 		240	190	1,140
66,000 volts					 			302 · 823	1,189.046
44,000 volts		• •		••	 			116.24	487 · 42
22,000 volts				• •	 	$207 \cdot 52$	499.1	1,378.026	3,972 · 127
11,000 volts			• •		 			1.415	8.49
6,600 volts	••	• •	• •	• •	 • •	$52 \cdot 31$	142.55	684 • 883	1,859.871
	Total				 	259.83	881.65	2,673 387	8,656 954

UNDERGROUND CABLES.

				Cable Miles Laid during Year ended 30th June, 1937.	Total Cable Miles Laid at 30th June 1937.
22,000 volts			 	 1 .560	111 '437
4.16, 6.6, and 7.2 kV.			 	 13.6	411 '561
400 volts			 	 -0.5	15 '468
Pilot and Telephone			 	 0.66	66 14
Supervisory Control			 	 0.02	11.183
Miscellaneous	• •	••	 	 0.233	14 .076
Total			 	 15 .563	629 *865

APPENDIX No. 3.

STATE ELECTRICITY COMMISSION OF VICTORIA.

NUMBER AND CAPACITY OF SUB-STATIONS AS AT 30th JUNE, 1937.

					!	Number.	Total kva
Terminal Stations						4	224,400
Central Supply Transmission Sub-stations						22	215,250
Distribution Sub-stations at Line Voltage	• •	• •		• •		14	33,800
Transmission and Dis ributio	n Tran	sformer S	lub-statio	ns.			
Metropolitan Branch—							
Distribution Transformer Sub-stations Eastern Metropolitan Branch—	• •	• •	• •	• •		553	140,670
Distribution Transformer Sub-stations Ballarat Branch—		• •				259	8,312
Distribution Transformer Sub-stations Bendigo Branch—						35	3,285
.						1	7.500
	• •	• •	• •	• •	• •	1	7,500
Distribution Transformer Sub-stations	• •	• •	,	• •	• •	32	5,635
Feelong Branch— Transmission Sub-stations							1.500
Transmission Sub-stations Distribution Transformer Sub-stations	• •	• •	• •		• •	1	1,500
Distribution Transformer Sub-stations Castlemaine Branch—	• •	• •	• •	• •	• •	91	9,162
						(*(*	0.075
Distribution Transformer Sub-stations	• •	• •	• •	• •	• •	66	2,275
Fippsland Branch— Transmission Sub-stations							200
Transmission Sub-stations Distribution Transformer Sub-stations		• •	• •		••]	1	200
North-Eastern Branch—	• •	• •	• •	• •	• •	304	7,999
m						O	19.500
Transmission Sub-stations Distribution Transformer Sub-stations		• •	• •	• •	• •	8	13,500
South-Western Branch—		• •	• •	• •		127	10,600
m						F.	7 155
Transmission Sub-stations Distribution Transformer Sub-stations	• •	• •	• •			5	7,175
Sugarloaf-Rubicon Area-	• •		• •	• •	• •	108	5,957
Distribution Transformer Sub-stations						2	450
Town of Yallourn, &c.—		• •	• •	• •	• •	2	400
Distribution Transformer Sub-stations						37	7 075
Vestern Metropolitan Branch—	• •	• •	• •	• •	• •	31	7,975
Distribution Transformer Sub-stations						20	1,330
	• •	• •	• •	• •	• • •		1,550
Total						1,690	706,975

APPENDIX No. 4.

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

		State Electricity Commission.	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	175,286,998	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
193334		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
1936 - 37		566,661,452	36,276,200		602,937,652	177,044,382	779,982,034

APPENDIX No. 5.

STATE OF VICTORIA.

TARIFFS AND STATISTICAL DATA OF ELECTRICITY SUPPLY UNDERTAKING: METROPOLITAN AREA.

TERRITORIES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA.

	let.	Population.	System of Supply.	Number of Consumers.	Tariffs.
F	wkner and Glenroy	651,647*	A.C., 1 ph., 200–400 v A.C., 1 ph., 200–400 v A.C., 1 ph., 200–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v A.C., 1 ph., 200–400 v A.C., 1 ph., 200–400 v	Number of Consumers.	See Standard Metropolita Tariffa.

^{*} Excluding Altona, Town of Broadmeadows, Campbellfield, Deer Park, and Werribes.

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 (excl. Fleming-	74,850	Melbourne City Council	D.C., 230-460 v. A.C., 3 ph., 230-400 v.	29,968	Metropolitan Standard Tariffs apply in all these territories with the exception of that of
ten) Box Hill, Black- burn and Mit-	22,990	Box Hill City Council	A.C., 3 ph., 230-400 v.	5,922	the Melbourne City Council, which has the following Metropolitan Standard Tariff only:—Residential, All Purposes, Night Rate Water Heating.
cham Shire Brunswick	54,650	Brunswick City Council	,, ,,	13,385	In addition to the above, the Melbourne City Council has Tariffs different from Stand
Coburg	39,350	Coburg City Council	,, ,,	9,920	ard for commercial and industrial lighting radiators, and power and heating.
Footseray and part of Bray-	50,300	Footscray City Council	,, ,,	12,100	radiators, and power and neutring.
brook Shire Heidelberg (excl.	25,400	Heidelberg City Council	,, ,,	6,520	
Greensborough) Northcote	43,000	Northcote City Council	ee	10,877	
Port Melbourne	13,000	Port Melbourne City Coun-	,, ,	2,793	•
Preston	34,100	Preston City Council	,, ,, .	8,194	
TIT: Ilia matorun	22.400	Williamstown City Council		6,300	

STANDARD METROPOLITAN TARIFFS (AS AT 1st OCTOBER, 1937).

SIANDARD	METROPOL	TIAN	IAKIF	ro (A	3 A1	ıst (CIOBER,	1937)•	
** 1.4	Сомм	ERCIAL A	ND INDU	STRIAL	Suppli	ES.				
Lighting—										
Tariff "A/40"—(Block Rate):—										
For electricity consumed between Up to and including 100	ween two consecu	itive mon	thly met	er readi	ngs—		4	d ner	kilowatt-hou	r
For all further consumpt					• • • • • • • • • • • • • • • • • • • •			d. ,,	2)	••
Power and Heating-	-									
Tariff "C/20"—										
For electricity consumed bet		ıtive mor	nthly met	er read	ings—					
Option I.—(Block Rate						500.1	:l		9.04 1-	
Up to and including For the next					• •	4,500 F	ilowatt-hours	• •	2.0d. per k 1.25d. ,,	
73 (1		• •		::		20,000	,,		0.9d. ,,	,,
			···			100,000	,,		0.8d. "	,,
For all further cons	•	-)(I	••	• •	• • •	••	••	0.75d. ,,	,,
Option II.—Two-rate (F For electricity cons			of II n m	and 7	9. m				0:3d per ki	lowatt-hour,
For electricity const							tes as un ler (I. above.	iowatt-nour,
A consumer selecting	ng Option II. sh	all be dee	emed to							of not less
	nsecutive calenda	r months	3.							
The Commission reserve Alter the times bet		rate of	0·3d. per	kilowa	tt-hour	applies	to any other	spread	of hours cor	venient to it
for the consum	er or locality con	cerned.	•			•••	•			
Require any consur	mer who takes a agreement includ	large pro	oportion	or all o	f his po	ower or h	eating consum	ption	under Option	II. to enter
Meter Rental.—See belo		ing condi	itions dec	med ap	propria	ite by th	e Commission	to the	particular ci	rcumstances.
All Purposes—										
Tariff " D/40 "—										
For electricity consumed for	all purposes (Pov	ver, Heat	ing, and	Lightin	g), bet	ween two	consecutive	month	ily meter rea	dings
Option I.—(Block Rate):		<u>.</u>	Ü					•	Ü
Up to and including							kilowatt-hours		4.0d. per 1	silowatt-hour
		••	• •	• •	• •	900	,,	•:	3.0d.,	,,
$\begin{array}{c} \text{For the next} \\ \text{For the next} \end{array}$				• •	••	$\frac{4,000}{20,000}$	"		1·9d. ,, 0·9d. ,,	,,
77						100,000	,,		0·8d. ,,	,,
For all further cons	sumption in the s	ame peri	od	• •				• •	0.75d. "	,,
Option II.—Two-rate (Prescribed Hour	s) :—								
For electricity cons										ilowatt-hour.
For electricity cons					-				•	
A consumer selecti	ng this tariff sha	ll be deer	med to he	ave agre	eed to b	being cha	rged according	gly for	a period of	not less than
	ative calendar m		na to pa	y for at	least	1,000 KH	owait-nours ec	nsum	otion per mo	ntii between
The Commission reserve	es the right to-	-								
Alter the times bet				kilowa	tt-hour	applies t	c any other a	pread	ot hours con	venient to it
Require any consu	ner or locality comer who takes a			or all	of his	requirem	ents under O	ntion	II to enter	into a anacial
agreement incl	uding conditions	deemed	appropria	te by t	he Com	mission 1	o the particul	ar circ	umstances.	into a special
Meter Rental.—See bel	ow.						-			
Cooking—										
Tariff " F/10"—			1 C 1		. 1 41 1	7	1 4 2	,		
Applicable to cafes, restaura of not less than 3 kilo			rea 100a i	snops ar	na the i	ike where	an electric ra	nge, el	ectric oven, c	or like device
For electricity consumed in			cooking	• •					ld, per kilo	watt-hour.
·			J						•	
		RES	IDENTIAL	SUPPL	Υ.					
Lighting, Power, Heating, and Cooking	•									
Two-part Tariff "G"—(Service										
Applicable to electricity su										
(a) Private houses, flats	s and separately	metered	dwellings	of a li	ke natı	ire associ	ated with sho	ps, sel	iools, office b	vildings, and
factories. Invoices rende	red quarterly									
(b) Boarding and aparts		els, hospi	itals, con	vents, l	oarding	g schools.	resi lential cl	ubs an	d institutions	
Invoices rende		,P	,	,		,				•
Service Charge—	-									

Ligh

Service Charge-

1s. per room per month.
5s. per month for cach 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.

Fach 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, pontries, lobbies, bathrooms, lavatories, cellars, entruce halls, porches, garages, private workshops, sculleries and wash-houses where not combined with kitchens, verandahs and vestibules, nnless such verandahs when enclosed or vestibules are used for the purposes stated above.

Appendix No. 5—continued.

STANDARD METROPOLITAN TARIFFS (AS AT 1st OCTOBER, 1937)-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.

Boosting Elements—
Electricity consumed by boosting elements will be charged for according to meter registrations under Tariff "C," "D" or "F" above.

Meter Rental— 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.

PROVINCIAL CITIES SERVED BY THE STATE ELECTRICITY COMMISSION OF VICTORIA.

BALLARAT BRANCH.

District.	Population.	System	No. of Consumers.				
City of Ballarat Borough of Sebastopol Ballarat Shire (portion only)	 39,660 {	A.C., 3-ph., 230–400 v. D.C., 3-wire, 230–460 v. A.C., 3-ph., 230–400 v. A.C., 3-ph., 230–400 v.		::			7,627 (Excluding Buninyong Shire)

TARIFFS AS AT 1st JULY, 1937.

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 ... 6 5d. per kilowatt-hour For the next 300 kilowatt-hours For all further consumption in the same period . . 5:0d. 4 · 0d.

Power and Heating-

Tariff " C/30"

For electricity consumed between two consecutive monthly meter readings-

Option I -(Block Rate)on 1—(Block Rate)—
Up to and including 50 kilowatt-hours
For the next 450 kilowatt-hours
For the next 4,500 kilowatt-hours
For the next 25,000 kilowatt-hours 3 Od. per kilowatt-hour. 2 25d. ", ", 1 65d. ", " ٠. ٠. · • ٠. 1:0d 0.9d. For all further consumption in the same period

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 between the hours of 6.30 a.m. and 10.30 p.m.—Block rates as set forth under Option I. above.

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 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/65"

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

Option I.—(Block Rate):—
Up to and including
For the next
For the next 200 kilowatt-hours 6 '5d. per kilowatt-hour. 300 5 '0d. 1,000 3,500 4 '0d. 2 '5d. . . ,, ٠. For the next 25,000 1 '0d. For the next ,, ,, 0 ·9d. For all further consumption in the same period

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

For electricity consumed between the hours of 10.30 p.m. and 6.30 a.m.

For electricity consumed between the hours of 6.30 a.m. and 10.30 p.m.—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 6.30 a.m. and 10.30 p.m.

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 requirements under Option II. to enter into a special agreement, including conditions deemed appropriate by the Commission to the particular circumstances.

Meter Rental-Sec below.

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

BALLARAT BRANCH—continued.

Commercial Cooking-Flat Tariff, "F/15"— Applicable to cates, 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 counexion with electric cooking 1.5d. per kilowatt-hour. 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— 1 '5d. 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. .—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, gmynasium 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. 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 "C/30" and "D/65" (Option II.—Two-rate)— .. For all Two-rate meters, 5s. per month per meter.

BENDIGO BRANCH.

District.	Population.	System of Supply.	No. of Consumers.
City of Bendigo		A.C., 3 ph., 230–400 v. and D.C., 3 wire, 220–440 v	7,081

Minimum Charge

3s. per month.

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

TARIFFS AS AT 1st JULY, 1937.

BENDIGO BRANCH-continued.

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 For the next 300 kilowatt-hours 6.5d. per kilowatt-hour 5.0d. " " " 4.0d. " " " For all further consumption in the same period

Power and Heating-

Tariff " C/30"

For electricity consumed between two consecutive monthly meter readings-

Option I .-- (Block Rate) --

Up to and including 50 kilowatt-hours For the next 450 kilowatt-hours ... For the next 4,500 kilowatt-hours ... For the next 25,000 kilowatt-hours ... per kilowatt-hour. 2.25d. . . 1·65d. 1·0d. ,, ,, For all further consumption in the same period ,,

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 between the hours of 6.30 a.m. and 10.30 p.m.—Block rates as set forth under Option I. above. 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 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/65"-

For electricity consumed for all purposes (Power, Heating and Lighting), between two consecutive monthly meter readings-Option I.—(Block Rate) :-

6.5 per kilowatt-hour. 5.0d. " Up to and including 200 kilowatt-hours For the next 300 ,, ,, ,, 4 · 0d. 2 · 5d. 1 · 0d. 1,000 For the next For the next 3 500 ,, ,, 25,000 For the next 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 between the hours of 6.30 a.m. and 10.30 p.m.—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 6.30 a.m. and 10.30 p.m. For electricity consumed between the hours of 10.30 p.m. and 6.30 a.m.

The Commission reserves the right to-

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 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.

Commercial Cooking-

Flat Tariff, F/15-

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 1.5d, per kilowatt-hour.

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— 1.5d. 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.

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

BENDIGO ELECTRICITY SUPPLY-continued.

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.

Boosting Elements-

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

Meter Rental-

Tariff "C/30" and "D/65" (Option II.—Two-rate.)— .. For all Two-rate meters, 5s. per month per meter.

Minimum Charge-

3s. per month.

GEELONG BRANCH.

District.	Population.	 System of Supp	No. of Consumers.		
City of Geelong	 45,100	A.C., 3 ph., 230-400 v. wire, 220-440 v. A.C., 3 ph., 230-400 v.	and 	D.C., 3	10,764 (excluding Torquay and Bellarine Peninsula).

TARIFFS AS AT 1st JULY, 1937.

COMMERCIAL AND INDUSTRIAL SUPPLIES.

Lighting-

Tariff "A/55"—(Block Rate)—							
For electricity consumed between two consecutive mo	nthly n	neter read	ings				
Up to and including 500 kilowatt-hours			٠.,		••	• • •	5.5d. per kilowatt-hour.
For all further consumption in the same period				-	••		3.5d.,

Power and Heating-

Tariff "C"-

For electricity consumed between two consecutive monthly meter readings-

Option I .- (Block Rate)-

Up to and including 500 kilowatt-hours For the next 4,500 kilowatt-hours	••	••					2.25d. per kilow	att-hour.
	• •	• •	• •	• •	• •	• •	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 between the hours of 6.30 a.m. and 10.30 p.m.—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.

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

GEELONG ELECTRICITY SUPPLY—continued.

Ali Purposes-Tariff " D/55"— For electricity consumed for all purposes (power, heating, and lighting) between two consecutive monthly meter readings:-Option L.—(Block Rate)-Up to and including 500 kilowatt-hours For the next 1,000 kilowatt-hours For the next 3,500 kilowatt-hours For the next 25,000 kilowatt-hours For the next 100,000 kilowatt-hours. 5.5d. per kilowatt-hour. 3 ·5d. 2·25d. ,, 1 ·0d 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 between the hours of 6.30 a.m. and 10.30 p.m.—Block Rates as set forth under Option I. above. A consumer selecting 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 cases, restaurants, eake and other prepared food shops and the like, where an electric range, electric oven, or like device or not less than 3 kilowatt capacity is used.

For electricity consumed in connexion with electric cooking 1.5d. per kilowatt-hour.

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— 1.5d. 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.

e.—Where the amount of the invoice is more than the deciared 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)-

ff "1/50"—(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 kilowat 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. 0.5d. per kilowatt-hour.

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 "C" or "D/55" (Option II.—Two-rate)— For all Two-Rate Meters 5s. per month per meter.

Minimum Charge-

3s. per month.

COUNTRY CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA.

(WITH TARIFFS AS AT 1st JULY, 1937.)

					Resid Sup	lential plies.			ercial and I	ndustrial S	upplies.		Residential, Commercial and Industrial Supplies.
		System of			and C (Two	nting, Heating, Sooking 5-part riff).	Lighting (Block Tariff).	(Bloe Prescrib	d Heating ek and ed Hour iffs).	(Bloc Prescrib	irposes k and bed Hour iffs).	Cooking (Flat Tariff).	Water Heating (Prescribed Hour Tariff).
Centre.	Branch.	Supply Single-phase 230–460-V.	Popu- lation.	Number of Con-				Option I.	Option 11.	Option I.	Option II.		
		Three-phase 220-400-V.		sumers.	Service Charge per Room per Month.	Charge per kWh.	Charge per kWh. Com- mencing at	Charge per kWh. Com- unencing at—	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Charge per kWh. Com- mencing at-	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Ifours Option I. Rates Apply).	Charge per kWh.	Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m. Sundays).
•	l			!	s. d.	d.	d.	d.	d.	d.	d.	d.	d.
Airey's Inlet Airly Alexandra Alfredton	S/W Gipps. N/E	A.C., 1 ph.§ (See Sale)* A.C., 3 ph.	850	12 245 or Provin	1 6 1 6 1 6	1 · 5 1 · 5 1 · 5	9·5 9·5 9·5	5.0 5.0 5.0	0 · 35 0 · 35 0 · 35	9 · 5 9 · 5 9 · 5	0 · 35 0 · 35 0 · 35	1 ·5 1 ·5 1 ·5	0 · 5 0 · 5 0 · 5
Allansford	Ball. S/W	(See Ballarat A.C., 3 ph. and 1 ph.	310	41	1 6	1.2	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Altona Alvie Anglesea Arundel	$\begin{array}{c} \text{Metro.} \\ \text{S/W} \\ \text{S/W} \\ \text{C'maine} \end{array}$	A.C., 1 ph. A.C., 1 ph. A.C., 1 ph. (See Keilor)	$2,000 \\ 125 \\ 75$	$\begin{vmatrix} 382 \\ 26 \\ 30 \end{vmatrix}$	$ \begin{array}{c cccc} 1 & 4 \\ 1 & 6 \\ 1 & 6 \end{array} $	1 5 1 5 1 5	8:5 9:5 9:5	4 · 5 5 · 0 5 · 0	0 · 35 0 · 35 0 · 35	8 · 5 9 · 5 9 · 5	0:35 0:35 0:35	1 ·5 1 ·5 1 ·5	0 · 5 0 · 5 0 · 5
Baddaginnie Bairnsdale	N/E Gipps.	A.C., 1 ph. A.C., 3 ph.	$\frac{80}{4,590}$	$11 \\ 1,046$	1 6 1 3	1 · 5 1 · 5	9:5 7:5	5·0 4·0	0.32	9 · 5 7 · 5	0.35	1 · 5 1 · 5	0 ·5 0 ·5
Ballarat East Ballarat North	S/W Ball. Ball.	and 1 ph. A.C., 1 ph.§ (See Ballarat (See Ballarat	50 unde	r Provi	. 1 6 ncial Ci	ities)	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Barnawartha Barwon Heads Bayles	N/E Geel. Gipps.	A.C., 1 ph. A.C., 1 ph. (See Koo-we	240 300 a-rup)	$\begin{array}{ c c } 28 \\ 167 \end{array}$	1 6	1.5	9.5 9.5	5·0 5·0	0.35	9 · 5 9 · 5	0:35 0:35	1 · 5 1 · 5	0.5
Bayswater Beaconsfield Belgrave	E/M E/M S/W E/M	A.C., 1 p.h A.C., 1 ph. A.C., 1 ph. A.C., 3 ph.	344 225 466 1.623	$ \begin{array}{c c} 127 \\ 35 \\ 100 \\ 631 \end{array} $	$egin{array}{cccc} 1 & 6 \\ 1 & 6 \\ 1 & 6 \\ 1 & 6 \\ \end{array}$	1 '5 1 '5 1 '5 1 '5	9 · 5 9 · 5 9 · 5 9 · 5	5 · 0 5 · 0 5 · 0	0 · 35 0 · 35 0 · 35 0 · 35	9 '5 9 '5 9 '5 9 '5	0 :35 0 :35 0 :35 0 :35	1 '5 1 '5 1 '5 1 '5	0.5 0.5 0.5 0.5
Belmont	Geel. Gipps.	(See Geelong A.C., 3 ph.		r Provi	ncial Ci	ties)	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Benalla Berwick Birregurra Boisdale Boolarra	N/E E/M S/W Gipps. Gipps.	and 1 ph. A.C., 3 ph. A.C., 1 ph. A.C., 1 ph. A.C., 1 ph. A.C., 3 ph.	4,000 932 448 600 300	996 143 100 104 59	$\begin{array}{c cccc} 1 & 3 \\ 1 & 6 \\ 1 & 6 \\ 1 & 6 \\ 1 & 6 \end{array}$	1 · 5 1 · 5 1 · 5 1 · 5 1 · 5	7 · 5 9 · 5 9 · 5 9 · 5 9 · 5	4:0 5:0 5:0 5:0 5:0	9 · 35 0 · 35 0 · 35 0 · 35 0 · 35	7 5 9 5 9 5 9 5 9 5	0 °35 0 °35 0 °35 0 °35 0 °35	1 '5 1 '5 1 '5 1 '5 1 '5	0 5 0 5 0 5 0 5 0 5
Boronia Bostock's Creek Bowser Braeside	E/M S/W N/E E/M	and 1 ph. A.C., 1 ph. A.C., 1 ph. A.C., 3 ph. A.C., 1 ph.	383 50 70 25	123 7 3 6	$\begin{array}{c cccc} 1 & 6 \\ 1 & 6 \\ 1 & 6 \\ 1 & 6 \end{array}$	1 '5 1 '5 1 '5 1 '5	9 · 5 9 · 5 9 · 5 9 · 5	5·0 5·0 5·0	0 · 35 0 · 35 0 · 35 0 · 35	9·5 9·5 9·5 9·5	0 · 35 0 · 35 0 · 35 0 · 35	1 ·5 1 ·5 1 ·5 1 ·5	0.5 0.5 0.5 0.5
Briagalong Briar Hill Broadmeadows	Gipps. E/M Metro. Ball.	(See Boisdale A.C., 1 ph. A.C., 1 ph. (See Ballarat	270 250	84 29 er Provi	1 6 1 6	1 · 5 1 · 5 ities)	9·5 9·5	5·0 5·0	0 · 35 0 · 35	9·5 9·5	0 ·35 0 ·35	1 ·5 1 ·5	0.2
Brown Hill Bruthen Bulla Bullock Swamp Buln Buln	Gipps. C'maine S/W Gipps.	A.C., 1 ph. A.C., 1 ph. A.C., 1 ph. (See Neerim)	580 150 45		$egin{array}{cccc} 1 & 6 \\ 1 & 6 \\ 1 & 6 \\ \end{array}$	1 5 1 5 1 5	9 · 5 9 · 5 9 · 5	5·0 5·0	0:35 0:35 0:35	9 · 5 9 · 5 9 · 5	0:35 0:35 0:35	1 ·5 1 ·5 1 ·5	0 ·5 0 ·5 0 ·5
Bundoora Buninyong	E/M Ball.	A.C., 1 ph. A.C., 1 ph.	50 800	68	$\begin{array}{ccc} 1 & 6 \\ 1 & 6 \end{array}$	1 · 5 1 · 5	9·5 9·5	2.0 2.0	0 · 35 0 · 35	9·5 9·5	0:35	1 · 5 1 · 5	0 ·5 0 ·5
(Riding only) Bunyip Burramine	Gipps. N/E	A.C., 1 ph. A.C., 3 ph.	400 40	73 6	1 6 1 6	1.5	9·5 9·5	5·0 5·0	0 · 35 0 · 35	9·5 9·5	0.35	1.5 1.5	0 · 5
Byrneside West Caldermeade	N/E Gipps.	and 1 ph. A.C., 1 ph. (See Lang L		7 26	1 6	1.5	9.5	5·0 5·0	0.35	9.5	0.35	1.5 1.5	0.5
Cambellfield Camperdown Camperdown	Metro. S/W S/W	A.C., 3 ph. and 1 ph. A.C., 3 ph. A.C., 1 ph.	3.000 420		$\begin{bmatrix} 1 & 6 \\ 1 & 3 \\ 1 & 6 \end{bmatrix}$	1 5	7·5 9·5	4·0 5·0	0 · 35 0 · 35	7·5 9·5	0 · 35 0 · 35	1 ·5 1 ·5	0 ·5 0 ·5
Rural Canadian Castlemaine	Ball. C'maine	(See Ballara A.C., 3 ph.	 tunde 5,300	er Provi	ncial C	ities) 1.5	7.5	4.0	0.35	7:5	0.35	1.5	0.2
Catani Chiltern Chilwell Clayton	Gipps. N/E Geel. E/M	and I ph. (See Lang I A.C., 3 ph. (See Geelong A.C., 1 ph.	1,500 unde	er Provi	1 6 Incial C	1 · 5 ities)	9:5	5.0	0.35	9.5	0.35	1·5 1·5	0.5

							111011	1 COW	IIVIIDDIC	M OI	VICTO	MA—	min acu.
					Res Su	dential		Comm	e jand l	Industrial S	Supplies.		Residential Commercia and Industrial Supplies.
		System of Supply		Number	Power and (Tw	hting, Heating, Cooking o-part triff).	Lighting (Block Tariff).	(Bloc Prescrib	d Heating ek and eed Hour riffs).	(Bloc Prescrib	urposes ek and oed Hour riffs).	Cooking (Flat Tariff).	Water Heating (Prescribed Hour Tariff).
Centre.	Branch.	Single-phase 230-460-V. Three-phase	Popu- lation.	of Con- sumers.				Option I.	Option II.	Option I.	Option II.		
		230-400-V.		Sumers.	Service Charge per Room per Month	Charge per kWh.	Charge per kWh. Commencing at—	Charge per kWh. Com- mencing at—	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Charge per kWh. Com- mencing at —	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option 1. Rates Apply).	Charge per kWh.	Charge per kWh. between 10 p.m. and 6 a.m (10 a.m. Sundays).
					8. d.	d.	d.	d.	d.	d.	d.	d.	d.
Clematis	E/M	A.C., 1 ph.	40	11	1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Cloverlea Clydebank	Gipps. Gipps.	(See Darnum (See Sale)*	1)*		1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Cobden Cobram Colac	S/W N/E S/W	A.C., 3 ph. A.C., 3 ph. A.C., 3 ph.	800 850 5,800	177 188 1,359	$\begin{bmatrix} 1 & 6 \\ 1 & 6 \\ 1 & 3 \end{bmatrix}$	1 5 1 5 1 5	9·5 9·5 7·5	5·0 5·0 4·0	0·35 0·35 0·35	9·5 9·5 7·5	0 · 35 0 · 35 0 · 35	1.5 1.5 1.5	0.5 0.5 0.5
Colac Rural	S/W	and 1 ph. A.C., 3 ph. and 1 ph.	805	50	1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Coldstream Congupna	己/M N/E	A.C., 1 ph. A.C., 3 ph.	43 50	18 3	$egin{bmatrix} 1 & 6 \\ 1 & 6 \end{bmatrix}$	1·5 1·5	$9.5 \\ 9.5$	5·0 5·0	$0.35 \\ 0.35$	9·5 9·5	0·35 0·35	1·5 1·5	0·5 0·5
Coragulae Cora I.ynu	S/W Gipps.	A.C., 1 ph. (See Koo-we	100	17	1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Cororooke Cowwarr	S/W Gip _i ,s.	A.C., 3 ph. A.C., 3 ph.	372 300	58 79	$\begin{bmatrix} 1 & 6 \\ 1 & 6 \end{bmatrix}$	1·5 1·5	$9 \cdot 5$ $9 \cdot 5$	5·0 5·0	0·35 0·35	$9.5 \\ 9.5$	0·35 0·35	1·5 1·5	0.5 0.5
Cranbourne	E/M	and 1 ph. A.C., 1 ph.	590	87	16	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Crib Point Croydon	E/M E/M	A.C., 1 ph. A.C., 3 ph.	1,505 2,020	133 600	1 6 1 0	1·5 1·25	$9.5 \\ 7.0$	5·0 3·0	0·35 0·35	$\frac{9 \cdot 5}{7 \cdot 5}$	0·35 0·35	1·5 1·5	0.5 0.5
Dalmore	Gipps.	and I ph. (See Koo-we	e-rup)*										
Dandenong	E/M	A.C., 3 ph. and 1 ph.	5,264	1,392	1 2	1.25	7.5	4.0	0.35	7.5	0.35	1.5	0.5
Darnum	Gipps.	A.C., 3 ph. and 1 ph.	400	102	1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Dawson Deer Park	Gipps. Metro.	(See Cowwar: A.C., 3 ph.	r)* 665	39	1 4	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Dennington Diamond Creek	S/W	and 1 ph. A.C., 1 ph.	315	44	1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Digger's Rest	E/M C'maine	A.C., 1 ph. A.C., 1 ph.	464 150	89 21	1 6 1 6	1.5	9.5 9.5	5·0 5·0	$0.35 \\ 0.35$	9·5 9·5	$0.35 \\ 0.35$	1·5 1·5	0.5
Dingley Dookie	E/M	A.C., 1 ph.	245	36	$\begin{array}{c c} 1 & 6 \\ 1 & 6 \end{array}$	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Dookie Dromana	N/E E/M	A.C., 1 ph. A.C., 3 ph.	250 864	$\begin{array}{c} 54 \\ 194 \end{array}$	$\begin{array}{c c} 1 & 6 \\ 1 & 6 \end{array}$	1.5	9.5 9.5	5·0 5·0	$0.35 \\ 0.35$	$9.5 \\ 9.5$	$0.35 \\ 0.35$	1·5 1·5	0·5 0·5
Drouin	Gipps.	and 1 ph. A.C., 3 ph.	1,050	216	1 6	1.5	9.0	5.0	0.35	9.5	0.35	1.5	0.5
Drysdale	Geel.		1,000	138	1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Dumbalk Eaglehawk	Gipps Bend.	(See Meeniya (See Bendigo	—unde										
East Oakleigh Echuca	E/M N/E	A.C., 3 ph. A.C., 3 ph.	$\frac{112}{4,422}$	$\begin{array}{c} 26 \\ 913 \end{array}$	$\begin{array}{ccc} 1 & 6 \\ 1 & 3 \end{array}$	1.5	$9.5 \\ 7.5$	5·0 4·0	0.35	9·5 7·5	0.35	1·5 1·5	0·5 0·5
Eildon Weir	N/E	A.C., 3 ph.	90	3	1 6	1.5	$9.\overline{5}$	5.0	0.35	9.5	0.35	1.5	0.5
Elliminyt Ellinbank	S/W Gipps.	(See Colac)* (See Darnun									1		
Eltham	\mathbf{E}/\mathbf{M}	A.C., 1 ph.	660	166	1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Emerald Epping	E/M E/M	A.C., 1 ph. A.C., 1 ph.	262 126	75 35	1 6 1 6	1.5	$9.5 \\ 9.5$	$\frac{5 \cdot 0}{5 \cdot 0}$	$0.35 \\ 0.35$	$9.5 \\ 9.5$	0·35 0·35	1·5 1·5	0.5
Euroa	N/E	A.C., 3 ph.	2,500	471	1 4	1.5	8.5	4.5	0.35	8.5	0.35	1.5	0.5
Ferny Creek Frankston	E/M E/M	A.C., 1 ph. A.C., 3 ph.	117 4,574	$\substack{27\\1,272}$	$\begin{array}{c c} 1 & 6 \\ 1 & 2 \end{array}$	$\begin{array}{c c} 1.5 \\ 1.25 \end{array}$	$\begin{array}{c c} 9.5 \\ 7.5 \end{array}$	$\frac{5 \cdot 0}{4 \cdot 0}$	$0.35 \\ 0.35$	$\frac{9.5}{7.5}$	$0.35 \\ 0.35$	1·5 1·5	$0.5 \\ 0.5$
Gainsborough	Gipps.	and 1 ph. (See Darnum	ı)*	50	1 6	1.5	9.5	5.0	0.95	0.7	0.05	, .	
Garfield Geelong West	Gipps.	A.C., 1 ph. (See Geelon	g—und	er Prov					0.35	9.5	0.35	1.5	0.5
Gisborne	C'maine	A.C., 3 ph.	850	134	1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Glengarry Glenormiston	Gipps. S/W	A.C., 3 ph. A.C., 3 ph. and 1 ph.	130 100	24 28	1 6 1 6	1·5 1·5	$9.5 \\ 9.5$	5·0 5·0	0.35	9·5 9·5	0.35	1·5 1·5	0.5
Glen Waverley Golden Square	E/M Bend.	A.C., 1 ph. (See Bendige	350 —unde	37 r Provi	1 6	1 · 5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Gnotuk Greensborough	S/W E/M	A.C., 1 ph. A.C., 3 ph.	120 737		1 6	1 · 5	9·5 9·5	5·0 5·0	0·35 0·35	9·5 9·5	$0.35 \\ 0.35$	1·5 1·5	0·5 0·5
Grovedale Harcourt	Geel. C'maine	(See Geelong A.C., 3 ph.		r Provin		ities)	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Hastings	E/M	A.C., 1 ph.	496	91			9.5	5.0	0.35	9.5	0.35	1.5	0.5

N		ES SERVE	 		R	esid	lential plies.			ercial and I		upplies.	Residential, Commercial, and Industrial Supplies.	
		System of Supply		Number	Pow an	rer. d C Two	ting, Heating, ooking -part riff).	Lighting (Block Tariff).	(Bloc Prescrif	d Heating k and ed Hour iffs).	(Bloc Prescrib	rposes k and ed Hour iffs).	Cooking (Flat Tariff).	Water Heating (Prescribed Hour Tariff).
Centre.	Branch.	Single-phase 230-460-V.	Popu- lation.	of Con-					Option I.	Option II.	Option 1.	Option 11.		
		Three-phase 230-400-V.		sumers.	Service Chair pe Book pe Mor	rge er om er	Charge per kWh.	Charge per kWh. Com- mencing at—	Charge per kWh. Com- mencing at—	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Bates Apply).	Charge per kWh. Com- mencing at—	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Charge per kWh.	Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m. Sundays).
					8.	d.	d.	d.	d.	d.	d.	d.	d.	d.
Haunted Hills	Gipps.	(See Morwell)*											
Hazelwood Healesville	Gipps. E/M	(See Yinnar) A.C., 3 ph. and 1 ph.		515	1	4	1.5	8.5	4.0	0.35	8.5	0.35	1.5	0.2
Heathmont	E/M Gipps.	A.C., 1 ph. A.C., 3 ph.	75 850	14 141	1	0 6	1 · 25 1 · 5	7·0 9·5	$\frac{3 \cdot 0}{5 \cdot 0}$	$0.35 \\ 0.35$	7·5 9·5	$0.35 \\ 0.35$	1·5 1·5	$0.5 \\ 0.5$
Highton	Geel.	and 1 ph. (See Geelong		!	rcial	Cit	ies)							
Hillside Inverloch	Gipps. Gipps.	(See Lindeno	w) 480	84	1	6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Irrewarra Johnsonville	S/W Gipps.	A.C., 1 ph. (See Lakes E			1	6	1.5	9.5	$5 \cdot 0$	0.35	9.5	0.35	1.5	0.5
Jumbunna Kalimna Point	Gipps. Gipps.	A.C., 1 ph. (See Lakes E	300 ntrance	(45 e)	1	6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Kallista Kalorama	E/M E/M	A.C., 1 ph. A.C., 1 ph.	$\begin{array}{c} 177 \\ 211 \end{array}$	47 41	1 1	6	$\begin{array}{c c} 1.5 \\ 1.5 \end{array}$	9.5 9.5	$5 \cdot 0$	$0.35 \\ 0.35$	$9\cdot 5$	0.35	1 · 5 1 · 5	0.5
	Bend. C'maine	(See Bendigo A.C., 1 ph.	250	r Provi	. 1	6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Killarney Kilsyth	$ m S/W \ E/M$	A.C., 1 ph. A.C., 1 ph.	$\frac{80}{145}$	35	1	6 0	$\begin{array}{c} 1.5 \\ 1.25 \end{array}$	9.5	$\begin{array}{c c} 5 \cdot 0 \\ 3 \cdot 0 \\ \hline \end{array}$	0.35	9·5 7·5 9·5	0.35	1:5	0.5
Kolora	S/W	A.C., 3 ph. and 1 ph.	70	13	· L	6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Kongwak	Gipps.	A.C., 3 ph. and 1 ph.	150	31	1	6	1.5	9.5	5·0 5·0	0.35	9.5	0.35	1.5	0.5
Koo-wee-rup	Gipps.	A.C., 3 ph.	1,250 1,200	264	1	6 4	1.5	9.5	4.5	0.35	8.5	0.35	1.5	0.5
Koroit Korumburra	S/W Gipps.	A.C., 3 ph. A.C., 3 ph. and 1 ph.	2,750	584	i	4	1.5	8.5	4.5	$0.35 \\ 0.35$	8.5	0.35	1.5	0.5
Kyabram Kyneton	N/E C'maine	A.C., 3 ph. A.C., 3 ph.	$1,700 \\ 3,260$	483 733	1 1	4	1·5 1·5	8·5 7·5	$\frac{4 \cdot 5}{4 \cdot 0}$	$0.35 \\ 0.35$	$8 \cdot 5$ $7 \cdot \tilde{5}$	$0.35 \\ 0.35$	1·5 1·5	0.5 0.5
Lakes Entrance	Gipps. N/E	A.C., 1 ph. A.C., 1 ph.	1,345 150	233	î	6	1.5	$9.5 \\ 9.5$	$5.0 \\ 5.0$	$0.35 \\ 0.35$	$9.5 \\ 9.5$	$0.35 \\ 0.35$	1.5	$0.5 \\ 0.5$
Lancaster Lancefield	C'maine	A.C., 3 ph. and 1 ph.	600	98	1	6	1.5	9.5	$5 \cdot 0$	0.35	9.5	0.35	1.5	0.5
Lang Lang	Gipps.	A.C. 3 ph. and 1 ph.	1,050	194	1	6	1.5	9.5	$5 \cdot 0$	0.35	$9 \cdot 5$	0.35	1.5	0.5
Lara Lara Lake	Geel. Geel.	(See Geelong (See Geelong	—unde	r Provi r Provi	ncial ncial	l Ci l Ci	ties) ties)							
Leongatha	Gipps.	A.C., 3 ph.			1		1.5	8.5	4.5	0.35	8.5	0.35	1.5	0.5
Leopold Lilydale	$egin{array}{c} { m Geel.} \ { m E/M} \end{array}$	(See Drysdal A.C., 3 ph.	e) 1,229	345	1	4	1.5	8.5	4.0	0.35	8.5	0.35	1.5	0.5
Lindenow	Gipps.	and 1 ph. A.C., 1 ph.	350	84 83	1 1	$\frac{6}{6}$	1.5	9·5 9·5	5·0 5·0	0.35	$9.5 \\ 9.5$	$0.35 \\ 0.35$	1·5 1·5	0·5 0·5
Lockwood	Gipps.	A.C., 1 ph. A.C., 1 ph. (See Bendigo	350 125	36	1	6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Long Gully Longwarry	Bend. Gipps.	A.C., 3 ph.		65	1	6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Lorne	S/W	and 1 ph. A.C., 3 ph. and 1 ph.	350	193	1	6	1.5	9.5	5.0	0.35	$9 \cdot 5$	0.35	1.5	0.5
Lorne Rural Lower Ferntree	S/W E/M	A.C., 1 ph. A.C., 3 ph.	$\frac{200}{713}$	3 108	1	$\frac{6}{6}$	1.5	9·5 9·5	$\frac{5 \cdot 0}{5 \cdot 0}$	$0.35 \\ 0.35$	$\begin{array}{c} 9\cdot 5 \\ 9\cdot 5 \end{array}$	$0.35 \\ 0.35$	1·5 1·5	0·5 0·5
Gully Lower Plenty	E/M	and I ph. A.C., I ph.	92	22	1	6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Lucknow	Gipps.	(See Bairnsd A.C., 3 ph.		227	1		1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Maffra	Gipps.	and 1 ph. A.C., 3 ph.	2,600	551	1	4	1.5	8.5	4.5	0.35	8.5	0.35	1.5	0.5
Maldon	C'maine	and 1 ph. A.C., 3 ph.	850	94	1	6	1.5	9.5	5.0	0.35	$9 \cdot 5$	0.35	1.5	0.5
Mansfield	N/E	and 1 ph. A.C., 1 ph.	650	236	1	6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Mardan Meeniyan	Gipps. Gipps.	(See Leongat A.C., 1 ph.	300	107	1	6	1.5	9·5 9·5	5·0 5·0	0·35 0·35	9·5 9·5	0.35	1.5	0.5
Merrigum	N/E	A.C., 3 ph.	20 0	58	1	6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5

		System of Supply	Population.	Number	Resid Sup	lential plies.		Comm	ercial and I	ndustrial S	supplies.		Residential Commercial and Industrial Supplies.
					(Tw	nting, Heating, looking o-part riff).	Lighting (Block Tariff).	(Block Tariff). (Block Prescribe		nd Heating All Pur leck and (Block bed Hour riffs). Tarif		Cooking (Flat Tariff).	Water Heating (Prescribed Hour Tariff).
Centre.	Branch.	Single-phase 230–460 V. Three-phase		of Con- sumers.				Option I.	Option II.	Option I.	Option II.		
		230-400 V.			Service Charge per Room per Month.	Charge per kWh.	Charge per kWh. Commencing at—	Charge per kWh. Com- mencing at-	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Charge per kWh. Com- mencing at—	Charge per kWh. bctweeu 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Charge per kWh.	Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m. Sundays).
					s. d.	d.	d.	d.	d.	d.	d.	d.	d.
Metung Mirboo North	Gipps.	(See Lakes 1 A.C., 3 ph.	Entranc 600	e) 133	1 6	1.~	0.5		0.05			İ	
Moe	Gipps.	and 1 pn. A.C., 3 ph.	1,000	246	1 6	1 5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Monbulk	E/M	and 1 ph. A.C, 1 ph	270	76	1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Monegeeta Monomeith	C'maine Gipps.	A.C., 1 ph. (See Koo-we	60	13	1 6	1.5	9.5	5.0	$\begin{array}{c} 0.35 \\ 0.35 \end{array}$	$9.5 \\ 9.5$	$0.35 \\ 0.35$	1 · 5 1 · 5	0.5
Montmorency Montrose	E/M E/M	A.C., 1 ph. A.C., 3 ph. and 1 ph.	374 325	96 73	$\begin{array}{ccc} 1 & 6 \\ 1 & 0 \end{array}$	1·5 1·25	$\begin{array}{c} 9\cdot 5 \\ 7\cdot 0 \end{array}$	5·0 3·0	0·35 0·35	9·5 7·5	0·35 0·35	1·5 1·5	0·5 0·5
Moolap Mooroodue	Geel. E/M	(See Drysdal A.C., 3 ph.	23	6	1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Mooroolbark Mooroopna	E/M N/E	A.C., 1 ph. A.C., 3 ph.	1,500	248	1 6	1.5	$ \begin{array}{c c} 9.5 \\ 8.5 \end{array} $	5·0 4·5	$0.35 \\ 0.35$	9·5 8·5	0·35 0·35	1·5 1·5	$0.5 \\ 0.5$
Mornington	E/M	A.C., 3 ph.	2,214	631	1 4	1.5	8.5	4.0	0.35	8.5	0.35	1.5	0.5
Mortlake Morwell	S/W Gipps.	A.C., 3 ph. A.C., 3 ph. and 1 ph.	844 2,050	239 407	1 6	1.5	9·5 8·5	5·0 4·5	$0.35 \\ 0.35$	$\frac{9.5}{8.5}$	$0.35 \\ 0.35$	1 · 5 1 · 5	$\begin{array}{c} 0.5 \\ 0.5 \end{array}$
Morwell Bridge Mossiface	Gipps. Gipps.	(See Morwell (See Bruther			1 6	1.5	9.5	5.0	0.35	9.5	0 35	1.5	0.5
Moyarra Mt. Dandenong Mt. Eliza	Gipps. E/M E/M	(See Jumbur A.C., 1 ph. A.C., 3 ph.		69 143	1 6 1 2	1·5 1·25	9·5 7·5	5·0 4·0	$0.35 \\ 0.35$	9·5 7·5	0·35 0·35	1 · 5 1 · 5	0·5 0·5
Mt. Evelyn Mt. Martha	E/M E/M	and 1 ph. A.C., 1 ph. A.C., 1 ph.	348 356	52 101	$\begin{bmatrix} 1 & 6 \\ 1 & 4 \end{bmatrix}$	1.5 1.5	9·5 8·5	$\begin{array}{c} 5 \cdot 0 \\ 4 \cdot 0 \end{array}$	0.35	9·5 8·5	0·35 0·35	1·5 1·5	0.5
Mt. Pleasant Mt. Waverley	Ball. E/M	(See Ballarat A.C., 1 ph.	unde 210	r Provi			9.5	5.0	0.35	9.5	0.35	1.5	0.5
Nalangil Nar-Nar-Goon	S/W Gipps.	A.C., 1 ph. A.C., 1 ph.	$\frac{60}{200}$	14 36	$\begin{array}{cccc} 1 & 6 \\ 1 & 6 \end{array}$	1·5 1·5	$9.5 \\ 9.5$	$\begin{array}{c} 5\cdot 0 \\ 5\cdot 0 \end{array}$	0·35 0·35	$9.5 \\ 9.5$	0.35	$\frac{1.5}{1.5}$	0.5
Narre Warren Nathalia	E/M N/E	A.C., 1 ph. A.C., 3 ph.	120 860	22 199	$\begin{array}{ccc} 1 & 6 \\ 1 & 6 \end{array}$	1·5 1·5	$9.5 \\ 9.5$	$5 \cdot 0$ $5 \cdot 0$	$\begin{array}{c} 0.35 \\ 0.35 \end{array}$	$9.5 \\ 9.5$	0.35	1·5 1·5	0.5
Navook Neerim	Gipps. Gipps.	(See Neerim) A.C., 1 ph.		232	1 6	1.5	$9\cdot 5$	5.0	0.35	$9\cdot 5$	0.35	1.5	0.5
Neerim East Neerim South	Gipps.	(See Neerim)		•						0.0	0 33		0.5
New Gisborne Newry	C'maine Gipps.	A.C., 1 ph. A.C., 3 ph.	$\frac{200}{400}$	25 56	$\begin{array}{ccc} 1 & 6 \\ 1 & 6 \end{array}$	$\frac{1.5}{1.5}$	$\frac{9 \cdot 5}{9 \cdot 5}$	$5 \cdot 0$	$0.35 \\ 0.35$	$\begin{array}{c} 9\cdot 5 \\ 9\cdot 5 \end{array}$	0·35 0·35	1·5 1·5	$\begin{array}{c} 0\cdot 5 \\ 0\cdot 5 \end{array}$
Newstead	C'maine	and 1 ph. A.C., 3 ph.	400		1 6		9.5	5.0	0.35	9.5	0.35	1.5	0.5
Newtown Nicholson	Geel. Gipps.	(See Geelong (See Lakes E	ntrance	·)		'							0.0
Nilma Noble Park	Gipps.	A.C., 1 ph. A.C., 3 ph.	160 1,359	30 154	1 6 1 6	1.5	$9 \cdot 5$ $9 \cdot 5$	$rac{5\cdot 0}{5}$	$\begin{array}{c} 0.35 \\ 0.35 \end{array}$	$9 \cdot 5$	$0.35 \\ 0.35$	1·5 1·5	$0.5 \\ 0.5$
Noojee Noorat	Gipps. S/W	(See Neerim) A.C., 3 ph.	360	7 9		1.5	9.5	5.0	0.35	$9 \cdot 5$	0.35	1.5	0.5
North Geelong North Shore	Geel.	(See Geelong (See Geelong	—unde	r Provir	icial Ci	ties)	0.5		2 22	0 =		_	
Notting Hill Numurkah	E/M N/E	A.C., 1 ph. A.C., 3 ph.	195 1,350	21 349	$\begin{array}{c c} 1 & 6 \\ 1 & 4 \\ \end{array}$	1.5	9·5 8·5	$\frac{5 \cdot 0}{4 \cdot 5}$	$\begin{array}{c} 0.35 \\ 0.35 \end{array}$	$\frac{9\cdot 5}{8\cdot 5}$	$0.35 \\ 0.35$	$\frac{1.5}{1.5}$	0.5
Nyora Ocean Grove	Gipps. Geel.	A.C., 1 ph. A.C., 1 ph.	200 100	45 80	1 6	1.5	9·5 9·5	5.0	$0.35 \\ 0.35$	$9 \cdot 5$	$0.35 \\ 0.35$	1·5 1·5	$0.5 \\ 0.5$
Officer Olinda	E/M E/M	A.C., 1 ph.	170 433	21 110	$\begin{array}{cccc} 1 & 6 \\ 1 & 6 \\ \end{array}$	1.5	9·5 9·5	$\frac{5 \cdot 0}{5}$	$0.35 \\ 0.35$	$9 \cdot 5$	$0.35 \\ 0.35$	1.5	$0.5 \\ 0.5$
Pakenham Pirron Yallock	E/M S/W	A.C., 1 ph. A.C., 1 ph.	550 50	111	1 6	1.5	9.5	$\frac{5 \cdot 0}{5}$	$0.35 \\ 0.35$	9.5	$0.35 \\ 0.35$	1·5	$0.5 \\ 0.5$
Point Lonsdale Pomborneit	Geel. S/W	A.C., 1 ph. A.C., 1 ph.	250 190	148 31	1 6 1 6	1.5	9.5	5·0 5·0	$0.35 \\ 0.35$	$9 \cdot 5$ $9 \cdot 5$	$0.35 \\ 0.35$	1·5 1·5	$0.5 \\ 0.5$
Poowong Portarlington	Gipps. Geel.	A.C., 1 ph.	300 600	117	$\begin{bmatrix} 1 & 6 \\ 1 & 6 \end{bmatrix}$	1.5	9.5	$\frac{5 \cdot 0}{5 \cdot 0}$	$\begin{array}{c} 0.35 \\ 0.35 \end{array}$	$9 \cdot 5$	$0.35 \\ 0.35$	1·5 1·5	0·5 0·5
Port Fairy	S/W	A.C., 3 ph.	1,800	345	1 4	1.5	8.5	4.5	0.35	8.5	0.35	1.5	0.5
Port Fairy North Port Fairy Rural	S/W S/W	(See Port Fa	570	15	1 6	1:5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Portsea	E/M	A.C., 3 ph.	46 0	124	1 6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5

COUNTRY C	ENTRES	SERVED	BY	STA	re e	LECT	RICIT	Y COM	IMISSIC	ON OF	VICTO)RIA	I
			Population.	Number	Reside Supp			Commo	ercial and I	ndustrial S	upplies.		Residential, Commercial and Industrial Supplies.
		System of Supply Single-phase 230-460V. Three-phase 230-400V.			and Co (Two Tar	Heating. ooking -part	Lighting (Block Tariff).	(Block Prescribed Hor		(Bloc Prescri	irposes k and bed Hour iffs).	Cooking (Flat Tariff).	Water Heating (Prescribed Hour Tariff).
Centre.	Branch.			of Con- sumers.				Option I.	Option II.	Option I.	Option II.		
					Service Charge per Room per Month.	Charge per kWh.	Charge per kWh. Com- mencing at—	Charge per kWh. Com- mencing at -	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Charge per kWh. Com- meneing at	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Charge per kWh.	Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m. Sundays).
				İ	s. d.	d.	d.	d.	d.	d.	d.	d.	d.
Quarry Hill Queenscliff	Bend. Geel.	(See Bendige A.C., 3 ph.		r Provi	ncial Cit	ies)	8.5	4.5	0.35	8.5	0.35	1.5	0.5
Red Hill Riddell Ringwood	E/M C'maine E/M	A.C., 1 ph. A.C., 1 ph. A.C., 3 ph. and 1 ph.	388 300 3,272	34 32 712	1 · 6 1 · 6 1 · 0	1·5 1·5 1·25	$9.5 \\ 9.5 \\ 7.0$	5·0 5·0 3·0	0·35 0·35 0·35	9·5 9·5 7·5	0·35 0·35 0·35	1·5 1·5 1·5	0.5 0.5 0.5
Rochester	N/E	A.C. 3 ph. (See Neerim)†	1,487	369	1.4	1.5	8.5	4.5	0.35	8.5	0.35	1.5	0.5
Rokeby Romsey	Gipps. C'maine	A.C., 3 ph. and 1 ph.	600	117	1.6	1.5	9-5	5.0	0.35	9.5	0.35	1.5	0.5
Rosebrook Rosebud	S/W E/M	A.C., 1 ph. § A.C., 3 ph. and 1 ph.	150 1,225	16 3 02	1.6	1·5 1·5	$\begin{array}{c} 9.5 \\ 9.5 \end{array}$	5·0 5·0	0·35 0·35	$9.5 \\ 9.5$	0·35 0·35	1·5 1·5	0·5 0·5
Rosedale Ruby	Gipps.	A.C., 1 ph. A.C., 1 ph.	400 50	78 10	1 6 1 6	1·5 1·5	$\frac{9.5}{9.5}$	5·0 5·0	$0.35 \\ 0.35$	$9.5 \\ 9.5$	$0.35 \\ 0.35$	1.5	0.5
Rutherglen Rye	N/E E/M Gipps.	A.C., 3 ph. A.C., 1 ph. A.C., 3 ph.	1.200 227 4,650	284 56 1,049	1 4 1 6 1 3	1·5 1·5 1·5	8·5 9·5 7·5	4·5 5·0 4·0	$0.35 \\ 0.35 \\ 0.35$	8·5 9·5 7·5	0·35 0·35 0·35	1·5 1·5 1·5	0·5 0·5 0·5
Sassafras	E/M	and 1 ph. A.C., 3 ph.	547	149	1.6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Seaford	E/M	and 1 ph. A.C., 3 ph.	937	252	$1\cdot 2$	1.25	7.5	4.0	0.35	7.5	0.35	1.5	0.5
Sebastopol	Ball.	and 1 ph. (See Ballarat		r Provi	ncial Cit	ties) 1 · 5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Selby Shepparton	E/M N/E	A.C., 1 pb. A.C., 3 ph.	6,500	1,508	1.3	1.5	$\begin{array}{c} 7.5 \\ 9.5 \end{array}$	4·0 5·0	0.35	$7.5 \\ 9.5$	0.35	1.5	0.5
Shepparton East Sherbrooke Silvan	N/E E/M	A.C., 1 ph. A.C., 1 ph. A.C., 3 ph.	800 157 208	45 20	1.6	1·5 1·5	9.5	$5.0 \\ 5.0$	0.35	$9.5 \\ 9.5$	0.35	1.5	0.5
Somers Somerville	E/M E/M E/M	and 1 ph. A.C., 1 ph. A.C., 3 ph.	192 360	44	1.6	1.5	9·5 9·5	5·0 5·0	0.35	9·5 9·5	0.35	1.5	0·5 0·5
Sorrento	E/M	and 1 ph. A.C., 3 ph.	1,257	366	1.6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Springhurst	N/E	and 1 ph. A.C., 3 ph.	150	36	1.6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Springvale	E/M	A.C., 3 ph. and 1 ph.	2,081	366	1.6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.2
St. Albans	Geel. C'maine	(See Geelong A.C., 1 ph.	650	r Provii 92	ncial Cit	ies) 1·5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Stony Creek Stratford	Gipps.	(See Meeniya A.C., 3 ph.	an) 850	135	1.6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Strathallen	N/E	and 1 ph. A.C., 1 ph.	25	2	1.6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Strathfieldsaye Strathmerton	Bend. N/E	(See Bendige A.C., 1 ph	140	. 22	1.6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Sunbury Swan Marsh	C'maine S/W	A.C., 3 ph. A.C., 1 ph.§	1,050 50	$\begin{vmatrix} 214\\9 \end{vmatrix}$	1·4 1·6	1.5	$9.5 \\ 9.5$	$\begin{array}{c c} 5.0 \\ 2.0 \end{array}$	$0.35 \\ 0.35$	$9.5 \\ 9.5$	$0.35 \\ 0.35$	1·5 1·5	0.5
Swan Reach Tallygaroopna	Gipps.	(See Lakes 1 A.C., 1 ph.	200	14	1.6	1.5	9:5	5.0	0:35	9·5 9·5	0:35	1.5	0.5
Tally Ho	E/M Gipps.	A.C., 3 ph. (See Moe)*	50	12	1.6	1.2 1.2	9.5	5.0	0.35	8.5	0.35	1.5	0.5
Tatura Tecoma	N/E E/M	A.C., 3 ph. (See Belgrav		279 526	1.4	1.5	8.5	4.5	. 0.35	8.5	0.35	1.5	0.5
Terang Terang Rural	S/W S/W	A.C., 3 ph.	2,012 445	98	1.6	1.5	9.5	5.0	0.35	9.5	0.35	1.2	0.5
Thomastown	E/M N/E	and 1 ph. A.C., 3 ph. A.C., 1 ph.	145 150	30 51	1.6	1 · 5 1 · 5	9·5 9·5	5 0 5 0	$0.35 \\ 0.35$	9·5 9·5	0 · 35 0 · 35	1.5 1.5	0.5 0.5
Tinamba	Gipps.	A.C., 1 ph. A.C., 1 ph. A.C., 3 ph.	350 320	57 113	1.6	1 · 5 1 · 5	9·5 9·5	5·0 5·0	0.35	9·5 9·5	0.35	1.5 1.5	0.5
Tongala Toongabbie	Gipps.	A.C., 1 ph.	150	19	1.6	1.2	9.5	5.0	0.35	9 5	0.35	1.2	0.5
Tooradon Torquay Trafalgar	Gipps. Geel. Gipps.	(See Koo-we A.C., 3 ph. A.C., 3 ph.	e-rup)* 180 1,300	166 297	1.6 1.6	1.5 1.5	9·5 9·5	5 · 0 5 · 0	$0.35 \\ 0.35$	9·5 9·5	0 · 35 0 · 35	1.5 1.5	0·5 0·5
Traralgon	Gipps.	and 1 ph. A.C., 3 ph.		580	1.4	1.5	8.0	4 . 5	0 .35	8.2	0.35	1.2	6.9
	!	and 1 ph.		1	!				ı				1

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

	Branch.	System of Supply Single-phase 230-460V. Three-phase 230-400V.	Popu- lation.	Number of Con- sumers.		ential plies.		Comm	ercial and I	ndustrial S	upplies.		Residential Commercial and Industrial Supplies.
					Power, and C (Two	Lighting, Power, Heating, and Cooking (Two-part Tariff).		(Bloc Prescrib	Power and Heating (Block and Prescribed Hour Tariffs).		All Purposes (Block and Prescribed Hour Tariffs).		Water Heating (Prescribed Hour Tariff).
Centre.								Option 1.	Option II.	Option I.	Option II.		
					Service Charge per Room per Month.	Charge per kWh.	Charge per kWh. Com- mencing at—	Charge per kWh. Com- mencing at—	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option 1. Rates Apply).	Charge per kWh. Com- mencing at—	Charge per kWh. between 10 p.n. and 6 a.m. (During Other Hours Option I. Rates Apply).	Charge per kWh.	Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m. Sundays).
					s. d.	d.	d.	d.	d.	d.	d.	d.	d.
Tremont Tyabb Tyers Tynong Upper Beacons-	E/M E/M Gipps. Gipps. E/M	A.C., 1 ph. A.C., 1 ph. A.C., 1 ph. A.C., 1 ph. A.C., 1 ph.	390 235 200 250 310	69 32 60 39 46	1 '6 1 '6 1 '6 1 '6	1 · 5 1 · 5 1 · 5 1 · 5 1 · 5	9·5 9·5 9·5 9·5 9·5	5·0 5·0 5·0 5·0	0 · 35 0 · 35 0 · 35 0 · 35 0 · 35	9·5 9·5 9·5 9·5 9·5	0 · 35 0 · 35 0 · 35 0 · 35 0 · 35	1 · 5 1 · 5 1 · 5 1 · 5 1 · 5	0.5 0.5 0.5 0.5 0.5
field Upper Ferntree Gully	E/M	A.C., 3 ph. and 1 p.h.	938	139	1.6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Upwey	E/M	A.C., 3 ph. and 1 ph.	1,192	235	1.6	1.5	9.5	5.0	0.35	9.5	0.35	1.5	0.5
Violet Town Wahgunyah Walpa	N/E N/E Gipps.	A.C., 3 ph. A.C., 3 ph. (See Lindend	600 500 ow)	114 78	1 ·6 1 ·6	1 ·5 1 ·5	$\begin{array}{c} 9.0 \\ 9.2 \end{array}$	5·0 5·0	0 · 35 0 · 35	9 · 5 9 · 5	0 · 35 0 · 35	1 ·5 1 ·5	0.5
Wangaratta Wangaratta North	N/E N/E	A.C., 3 ph. A.C., 3 ph. and 1 ph.	4,850	1,115	1.8	1 · 5 1 · 5	7.5 9.5	$\frac{4.0}{5.0}$	$0.32 \\ 0.32$	7 · 5 9 · 5	0.35	1 ·5 1 ·5	0.2 0.2
Wantirna Warncoort Warragul	E/M S/W Gipps.	A.C., 3 ph. A.C., 1 ph. A.C., 3 ph. and 1 ph.	80 30 2,900	7 5 720	1 '6 1 '6 1 '4	1 ·5 1 ·5 1 ·5	9·5 9·5 8·5	5·0 5·0 4·0	0 · 35 0 · 35 0 · 35	9·5 9·5 8·5	0 ·35 0 ·35 0 ·35	1 ·5 1 ·5 1 ·5	0.5 0.5 0.5
Warrandyte Warrion	E/M S/W	A.C., 1 ph. A.C., 3 ph. and 1 ph.	285 75	66 19	1.6	1 ·5 1 ·5	$9.2 \\ 9.2$	$\frac{2.0}{2.0}$	$0.35 \\ 0.35$	$9.5 \\ 9.5$	0.35	1.5 1.5	$0.5 \\ 0.5$
Warrnambool Warrnambool Rural	S/W S/W	A.C., 3 ph. A.C., 1 ph.	9,310 90	1,861 1	1.8	1 ·5 1 ·5	7 · 5 9 · 5	4 · 0 5 · 0	$\begin{array}{c} 0.32 \\ 0.32 \end{array}$	$\begin{array}{c} 7.5 \\ 9.5 \end{array}$	0.35	$\begin{array}{c} 1.5 \\ 1.5 \end{array}$	0.2 0.2
Watsonia Weerite	E/M S/W	A.C., 3 ph. A.C., 3 ph.	80 30	$\frac{21}{3}$	1 ·6 1 ·6	1 ·5 1 ·5	9·5 9·5	$\frac{5.0}{5}$	$0.35 \\ 0.35$	$9.5 \\ 9.5$	$0.35 \\ 0.35$	1 ·5 1 ·5	$0.5 \\ 0.5$
Wendouree Werribee	Ball, Metro.	(See Ballarat A.C., 3 ph. and 1 ph.	2,827	r Provu 579	ncial Cit	ies) 1 · 5	8.2	4 . 5	0.35	8.5	0.35	1 .2	0.5
Werribee South Westbury	Metro. Gipps. E/M	(See Werribo (See Moc)* A.C., 1 ph.	ee) 120	16	1.6	1.5	9.5	5.0	0.35	9.5	0.35	1.2	0.5
Wheeler's Hill White Hills	Bend. S/W	(See Bendigo A.C., 1 ph.			ncial Cit		9.5	5.0	0.35	9.5	0.35	1.5	0.5
Winchelsea Wiseleigh Wodonga	Gipps. N/E	(See Bruther A.C., 3 ph.	n) 2,900	430	1 '4	1.5	8 '5	4.5	0.35	8.2	0.35	1.2	0.5
Woodend	C'maine	A.C., 3 ph. and 1 ph.	1,216	252	1.6	1 5	9.5	5.0	0.35	9.5	0.35	1 '5	0.5
Wool Wool Wunghnu Wy Yung	N/E Gipps.	A.C., 3 ph. A.C., 1 ph. (See Bairnsd	187 ale)	17	1.6	1 ·5 1 ·5	9·5 9·5	5.0 2.0	0.35	9·5 9·5	0.35	1 ·5 1 ·5	0 · 5 0 · 5
Yannathan Yarra Glen Yarragon	Gipps. E/M Gipps.	(See Lang I A.C., 1 ph. A.C., 3 ph.	ang)* 310 500	44 101	1.6	1 · 5 1 · 5	9·5 9·5	5·0 5·0	0 ·35 0 ·35	9·5 9·5	0.35	1 ·5 1 ·5	0·5 0·5
Yarrawonga Yering Yeringberg Yinnar	N/E E/M E/M Gipps.	and 1 ph. A.C., 3 ph. A.C., 1 ph. A.C., 1 ph. A.C., 3 ph. and 1 p.h.	2,300 15 20 350	532 6 6 117	1 '4 1 '6 1 '6 1 '6	1 ·5 1 ·5 1 ·5 1 ·5	8.5 9.5 9.5 9.5	4 · 5 5 · 0 5 · 0 5 · 0	0 · 35 0 · 35 0 · 35 0 · 35	8 · 5 9 · 5 9 · 5 9 · 5	0:35 0:35 0:35 0:35	1 ·5 1 ·5 1 ·5 1 ·5	0 · 5 0 · 5 0 · 5 0 · 5

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

NOTES RELATING TO THE FOREGOING TARIFFS.

COMMERCIAL AND INDUSTRIAL TARIFFS.

- 1. Lighting.—All consumption in excess of 100 kilowatt-hours between two consecutive monthly meter readings is at a lower rate.
- 2. Power and Heating (Option I.)—All consumption in excess of 50 kilowatt-hours between two consecutive monthly meter readings is at a lower rate.
- 3. All Purposes (Option I.)—All consumption in excess of 100 kilowatt-hours between two consecutive monthly meter readings is at a lower rate.
- 4. All Purposes (Option II.)—A consumer selecting this tariff shall be deemed to have agreed to pay for at least 1,500 kilowatt-hours consumption per month between the hours of 6 a.m. and 10 p.m.
- 5. Meter Rental.—5s. per month per two-rate meter (applicable only to Option II. of Power and Heating and All Purposes Tariffs).
- Cooking.—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.

MINIMUM CHARGE.

The minimum charge in all country centres is 3s. 6d. per month.

ABBREVIATIONS.

Metro.	 	 	••	Metropolitan Branch.
Ball.	 	 		Ballarat Branch.
Bend.	 	 		Bendigo Branch.
C'maine.		 		Castlemaine Branch.
\mathbf{E}/\mathbf{M}	 	 		Eastern Metropolitan Branch.
Geel.	 	 		Geelong Branch.
Gipps.	 	 		Gippsland Branch.
N/E	 	 		North-Eastern Branch.
S/W	 	 		South-Western Branch.

System of Supply: Single-phase 230/460 V., three-phase 230/400 V. *=A.C., 1 ph.: $\dagger=A.C.$, 3 ph. and 1 ph.; $\ddagger=A.C.$, 3ph $\S.=230$ volt only

COUNTRY ELECTRICITY SUPPLY UNDERTAKINGS (MUNICIPAL AND PRIVATE) AT 1st JULY, 1937.

Locality.	Popu- lation in	Supply Authority.	System of Supply.	No. of Co (App	orox.)	Price ;	per kWh.
-	Suppl y Area. (Approx.)		System of Supply.	Lìght.	Power.	: Ligh t ing,	Power.
Apollo Bay	450	Apollo Bay E.S. Co. Pty. Ltd	D.C., 230 v		(total)	ls	6d.
*Aspendale, Chel	5,400	Ararat Borough Council	A.C., 230–400 v	,	(total)	9d	$3\frac{1}{2}d$.
sea, and Carrum Avoca	8,000 1,000	Carrum E.S. Co	D.C., 230 v	2,460 208	(total)	8d. to $1\frac{1}{4}$ d 1s. 3d. to 1s	5d. to 2d. 6d. to 3d.
Bacchus Marsh	1,510	Bacchus Marsh Shire Council	A.C., 230-400 v	430	(total)	10d. to 9d	5d. to 3d.
Ballan Beaufort	600 1,500	Ballan E.S. Co. Pty. Ltd Ripon Shire Council	A.C., 230–400 v	$\begin{array}{c c} & 115 \\ 249 \end{array}$		1s. 3d 10d	9d. 5d.
Beechworth	1,850	Beechworth Shire Council	,,	381	••	ls	6d.
Beulah Birchip	400 1,031	Karkarooe Shire Council	D.C., 230–460 v	205	(total)	ls. 3d	4d. 6d.
Boort	6 5 0	Boort Co-op. Butter and Ice Co		276	(total)	ls, 3d. to 9d	6d. to 41d.
Bright Broadford	500 1,000	Block and Sons Pty. Ltd Broadford Shire Council	A.C., 230–400 v D.C., 230 v	112	(total)	1s. 3d. to 1s 9d	6d. 9d. to 6d.
Casterton	1,800	Casterton E.S. Co. Pty. Ltd.	,,		(total)	ls	6d. to 1.1d.
Charlton	1,300	Charlton E.L. & P. Co	,,		(total)	ls. to 9d	4½d.
Cohuna	1,000	Gunbower Co-op. Butter & Trading Co. Ltd.	,,	215	(total)	1s. to 9d	6d. to 3d.
Coleraine .	9 5 0	Cocks Pioneer Gold and Tin Mines N.L. Hamilton E. S. Co. Ltd	A.C., 230 400 v	219	No (total)	supply to consum	ners 10d. to 6d.
		Corindhap Hydraulic G.S. Co., N.L.	A.C., 3 ph	ļ	No	supply to consum	ers
Corryong Daylesford	500 3,400	Shire of Upper Murray Ex. of late M. Pollard	A.C., 230–400 v D.C., 230–460 v	143 545	! ·· !	1s. 3d 10d	6d. to 3d, 5d.
Daylestord	1,650	Dimboola Shire Council			(total)	10d 1s. to 9d	6d. to 4d.
Donald	1,700	Donald Shire Council	D.C., 230 v	390	` i	ls	6d.
Doncaster and Templestowe	2,500	Doncaster Shire Council	A.C. 1 ph., 200-400 v.	447		7d	4d. to ·35d.
Dunolly	50 0	Bet Bet Shire Council	A.C., 230-400 v. 1 ph.	153		ls. to 10d	6d.
Edenhope	400	Edenhope E. S. Co. Pty. Ltd Elmore Elec. L. & P. Co	D.C., 230 v D.C., 230 v	52 190		1s. 3d	9d. 6d. and 4d.
Elmore	800 900	Toora Foster Elec. Co. Ltd.	D.C., 230 v A.C., 230-400 v	97	::	ls	4d. to 3d.
Goroke	200	W. A. Bland	D.C., 230 v	33	i !	ls. 4d	6 d.
Hamilton	$\frac{5,400}{1,250}$	Hamilton E.S. Co. Ltd	D.C., 230 v	$\begin{array}{c} 1,113 \\ 209 \end{array}$	(total)	7d	5d. 6d. to 3d.
Hepburn	350	Hepburn Springs E.S. Co. Ltd.	A.C., 230-400 v	184		1s. to 9d	4d.
Hopetoun	800	Karkarooc Shire Council	D.C., 230 v		(total)	10d	4 d.
Horsham	5,400 1,100	Horsham Borough Council Inglewood Borough Council	D.C., 230–460 v D.C., 230 v	1,179 201	(total)	7d. to 6d	5d. to 1d. 6d. to 3d.
Jeparit	800	Block & Sons Pty. Ltd	D.C., 230 v		(total)	ls	6d.
Kaniva	1,200	Lawloit Shire council	A.C., 230-400 v		(total) (total)	1s. 2d 9d	6d. 5d. to 3d.
Kerang	2,750 1,050	Kerang Shire Council Kilmore Shire Council	71.0., 250-400 V		(total)	9d 10d. to 6d	4d.
Koondrock	600	Kerang Shire Council	A.C., 230-400 v	87	Ì, ,	ls. 3d	9d. and 6d.
Korong Vale Lake Boga	250	Korong Shire Council			lderburn (total)	ls. ld. to 6d	5d. to 3d.
		Lamplough Gold Mining Co. Ltd	A.C., 230-400 v			supply to consumo	ers
Manangatang	350	J. Andrews	D.C., 230 v	53		ls. 4d	9d.
Maryborough Mildura	5,600 14,500	Maryborough Borough Council	A.C., 230–400 v D.C., 230–460 v	1,177 $2,663$		9d. and 6d City, 7d. to 5\frac{2}{3}d.;	$\frac{4\frac{1}{2}d}{\text{City}}$ — Domesti
			A.C., 230–400 v			Ďistrict, 9½d. to 6¾d.	2d. Ind. 4·5o to 1d. Dist,- Domestic 2·75o Ind. 4·75d. t 1d.
Minyip Myrtleford	700 650	Dunniunkle Shire Council Block and Sons Pty. Ltd.	D.C., 230 v	176 145	(total)	ls. 2d	8d. to 2d. 6d. to 4d.
Myrtleford Murrayville	450	Walpeup Shire Council	A.C., 230-400 v	74	(total)	1s. 3d	6d. to 3d.
Murchison	600	Waranga Shire Council	A.C., 230-400 v	125	(total)	ls. 3d	6d. to 2d.
Murtoa Nagambie	1,237 800	Dunmunkle Shire Council	D.C., 230 v		(total) (total)	10d	5d. to 2d. 6d. to 5d.
Natimuk	550	H. C. Woolmer	A.C., 230–400 v	98) . <u>.</u>	ls. 3d	9d.
Nhill	1,990 400	Lowan Shire Council	D.C., 230-460 v A.C., 230-400 v		(total)	11d 1s. Id. to 6d	6d. to 3d 5d. to 3d.
Omeo	500	Omeo E. S. & Motor Co. Pty. Ltd.	,,	101	i`´ '	ls. 3d	6d.
Orbost	1,600 1,050	Orbost Butter and Produce Co	D.C., 230 v	$\frac{340}{222}$	(total)	10d	6d. to 4d. 5d. to 11d.
Ouyen Pyramid	500	Gordon Shire Council	A.C., 230-400 v		(total)	ls. 3d. to 9d	6d.
Phillip Island	200	Phillip Island Shire Council	**	97	`	ls. lɨ̯d	7d.
Portland	2,300 500	Portland Borough Council Kerang Shire Council	D.C., 230 v.	$\frac{483}{112}$	(total)	ls	6d. 6d. to 4d.
Quambatook Rainbow	i,007	Rainbow E.L. Co.	D.O., 200 V.		(total)	1s. 3a	ls. to 6d,
Rupanyup	6 00	Dunmunkle Shire Council .	,,	148	(totai)	ls. 2d	8d. to 2d.
Rushworth	1,200	Waranga Shire Council	D.C., 230 v	292	(total)	10d	5d. to 2d.

^{*} The tariffs available at Aspendale, Chelsea and Carrum are similar to those at the State Electricity Commission's Frankston centre.

COUNTRY ELECTRICITY SUPPLY UNDERTAKINGS (MUNICIPAL AND PRIVATE)—continued.

Locality,	Popu- lation in	Supply Authority.	System of Supply.	No. of Consumers. (Approx.)		Price per kWh.				
	Supply Alea. (Approx.)			Light.	Power.	Lighting,	Power.			
Seymour	2,250	Seymour Shire Council		A.C., 230–400 v	694	(total)	10d	4d. to 2d		
Stawell	4,500	Stawell Borough Council		,,	903	(total)	9d	4d. to 3d.		
St. Arnaud	3,000	St. Arnaud Borough Council		,,	669	(11d.	5d. to 21d.		
Swan Hill	5,500	Swan Hill Shire Council	••	inc. Nyah, Lake Bog		(total) Iltima	Town 8d. to 3d.	Town 5d. to 1½d		
		Talbot Alluvials Ltd		No supply to consumers						
Tallangatta	650	Shire of Towong		A.C., 230-400 v	161		ls. 2d.	6d. to 4d.		
Гоога	900	Toora Foster Elec. Co. Ltd.		,,	100	(total)	Is. to 7d.	4d. to 3d.		
Frentham	500	Kyneton Shire Council		,,	150	`'	1s. 2d	6d. to 4d.		
Ultima	250	Swan Hill Shire Council	٠.	,,	77	(total)	1s. 1d. to 6d.	5d. to 3d.		
Underbool	225	A. J. Gloster		D.C., 230 v	32		ls. 3d	6d.		
Warburton	1,200	Upper Yarra E.S. Co. Pty. Ltd.			240		9d	41d.		
Warrackna beal	2,800	Warracknabeal E.L. Co. Ltd.		A.C., 230-400 v	602		10d	6d. to 3d.		
Wedderburn	1,500	Korong Shire Council	• •	,,	283 (incl. Ko	rong Vale)	ls	5d.		
Wonthaggi	9,000	State Coal Mine		A.C., 415-240 v	1.650	194	7d	3d. to 11d		
Wycheproof	800	Wycheproof Shire Council		D.C., 230 v	264	(total)	1s. 3d. to 9d	6d. to 3d.		
Yarranı	1,200	Yarram H.E. Co		A.C., 230-400 v	419		11d	4d. to 1d.		
Yea	950	Yea Shire Council		,,	248		11d	6d. to 4d.		

Total Population (approx.), 135,800. Total Consumers (approx.), 30,742.

REFERENCE TO APPENDIX No. 6.

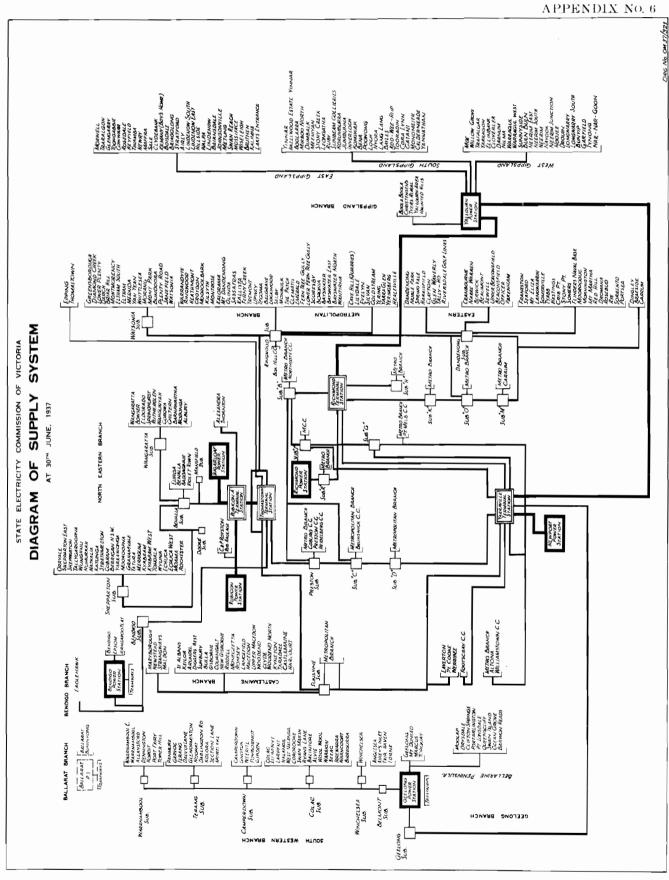
DIAGRAM OF SUPPLY SYSTEM AT 30TH JUNE, 1937.

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, Western Metropolitan, Eastern Metropolitan and Castlemaine Branches and also to the Melbourne municipalities which distribute electricity.

The Ballarat power station is operated independently of the Commission's Main Supply System.



APPENDIX No. 7.

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

		4 00-1-01	After Acqu Year 193	disition. 36–37.	Prior	r to Acquisition	n.	Average Revenue per Kwh. Sold.		
Branch and Town.		Acquisition Date.	Kwh. Sold.	Revenue.	Kwh. Sold.	Revenue.	For Year Ended.	1936-87.	Prior to Acquisition.	
Castlemaine Bra	NCH.			£		£		\overline{d} .	d.	
Castlemaine		31.12.29	589,204	9,409	175,904	7,130	31.12.28	$3 \cdot 83$	$9 \cdot 73$	
Gisborne		1.10.28	85,885	1,285	17,000	1,074	30.9.27	$3 \cdot 59$	15 · 16	
Kyneton		1.10.29	419,894	6,818	143,340	5,433	30.9.27	$3 \cdot 90$	$9 \cdot 09$	
Sunbury		1.5.26	262,934	3,833	58,501	2,490	30.9.24	3.50	10.21	
Woodend		1.8.29	161,464	2,897	51,000	2,555	30.9.27	$4 \cdot 31$	12.02	
Eastern Metropo Branch.	LITAN									
Dandenong		1.10.23	1,052,110	13,634	77,300	4,006	30.9.23	3.11	12.44	
Frankston		21.2.28	1,550,533	15,895	293,000	8,859	30.9.27	2.46	$7 \cdot 25$	
Healesville		1.4.33	345,384	5,989	108,910	4,196	30.9.31	$4 \cdot 16$	$9 \cdot 24$	
Lilydale		1.4.25	686,067	5,716	39,950	1,816	30.9.24	$2 \cdot 00$	10.91	
Mornington		1.8.30	463,482	7,007	120,000	4,634	30.9.28	$3 \cdot 63$	$9 \cdot 26$	
Ringwood and Croydor		1.4.25	954,313	11,398	181,600	4,393	30.9.24	$2 \cdot 87$	5.81	
Sorrento and Portsea		1.10.27	540,329	8,907	47,500*	2,440	30.9.27	3.96	12.33*	
GIPPSLAND BRAN	CH.									
Bairnsdale		1.4.27	932,870	11,374	100,272	2,948	30.6.23	2.93	7.06	
Drouin		3.10.24	304,326	3,059	19,500	743	30.9.21	2.41	9.15	
Garfield		1.8.29	34,921	523	8,864	465	30.12.27	3.59	12.59	
Inverloch		1.10.34	47,893	851	4,000*	200	30.6.34	4 · 26	12.00*	
Koo-wee-rup	• •	1.8.35	142,074	2,342	17,481	686	9.8.33	3.96	9.42	
Korumburra	• •	1.12.24	560,371	7,019	85,000	3,427	30.9.23	3.01	9.68	
Leongatha	• •	15.2.24	450,229	5,636	50,640	2,012	30.6.23	$ \begin{array}{c c} 3 \cdot 00 \\ 2 \cdot 23 \end{array} $	9.53	
Maffra	• •	1.9.24	879,162	8,161	62,000	2,651	30.9.22	$\frac{2 \cdot 25}{4 \cdot 05}$	10·26 8·17	
Morwell	• •	1.4.26	206,397	3,484	52,062	1,772 $1,193$	$\begin{vmatrix} 30.9.25 \\ 30.6.33 \end{vmatrix}$	2.19	4.81	
Neerim South-Noojee Sale	• •	15.1.35	301,765	2,757	59,550 114,155	3,687	30.6.24	$2 \cdot 64$	7 75	
Warragul		1.7.24 $1.12.30$	1,202,252 564,429	13,242 8,307	150,000*	4,830	30.11.30	3.53	7.73*	
North-Eastern Br		1.12.00	001,120	0,001	150,000	1,000				
Alexandra		11.4.27	242,864	3,577	64,000*	1,875	30.9.26	3.53	7.00*	
Benalla		1.5.26	752,403	10,934	70,800	3,373	30.9.24	$3 \cdot 49$	11.43	
Cobram		1.10.28	89,628	2,344	19,500	1,416	30.9.27	$6 \cdot 28$	17.43	
Euroa		20.3.28	153,544	3,746	46,618	1,782	30.9.25	5.86	9.17	
Kyabram		1.12.26	505,612	5,980	92,312	3,462	4.7.25	2.84	9.00	
Mansfield		1.6.28	108,159	2,190	25,000	1,341	30.9.27	4.86	12.88	
Mooroopna		1.10.26	326,014	3,647	40,000	1,457	30.9.25	2.68	8.74	
Nathalia and Numurka	ih	1.10.31	494,109	6,683	96,763	3,619	30.9.31	3.25	8.97	
Rochester	• •	1.8.35	220,339	3,439	191,310	4,223	31.7.35	$3.75 \\ 1.25$	5.30	
Rutherglen		15.10.26	1,508,811	7,836	28,392 163,400	1,377	30.9.24	$2 \cdot 37$	11.64	
Shepparton Tatura	• •	1.1.25	2,103,901	20,753	40,000	4,625 $1,710$	$\begin{vmatrix} 30.6.24 \\ 30.6.25 \end{vmatrix}$	3.58	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
37: -1 70	• • •	1.11.26 $1.3.36$	182,983	$\begin{vmatrix} 2,728 \\ 865 \end{vmatrix}$	14,650	1,160	30.9.35	5.64	19.0*	
337.1. 1	• •	1.2.26	36,819 33,719	624	7,233	263	30.9.22	4.44	8.73	
337	• •	12.3.27	7,865,774	35,650	151,600	4,788	30.9.25	1.09	7.58	
Wangaratta Wodonga		1.11.33	172,114	3,784	64,500*	3,000*	30.6.33	5.28	11.16*	
Yarrawonga		1.8.25	735,233	6,318	47,000	2,149	30.9.24	2.06	10.97	
South-Western Bi		2.0.20]	,,,,,	-1,111	_,			20 0.	
Camperdown	ANCH.	1.1.24	632,552	7,402	97,664	4,122	30.9.23	2.81	10.13	
Colac	• • • • • • • • • • • • • • • • • • • •	1.9.23	1,132,044	15,497	99,000	2,673	30.9.22	$3 \cdot 29$	6.48	
Koroit		1.12.28	126,541	2,041	50,000	2,319	30.9.28	$3 \cdot 87$	11.13	
Mortlake		16.5.24	148,282	2,290	35,306	1,626	30.9.22	3.71	11.05	
Terang		4.3.24	334,955	5,079	78,839	3,439	30.9.23	3.64	10.47	
WEST'N MET'POLITAN	Branch.									
Werribee	••	10.4.24	794,688	7,942	61,190	2,575	30.9.23	2.40	10.10	
Total			31,439,376	320,892	3,622,606	132,014		$2 \cdot 45$	8.75	
			• An	proximate only	·.					

• Approximate only. COMPARISON OF TOTAL FIGURES.

	COM	AIVIO	Kwh. Sold.	Average Revenue per Kwh. $d.$			
After acquisition Prior to acquisition		••	31,439,376 3,622,606	• • • • • • • • • • • • • • • • • • • •	320,892 132,014	••	2·45 8·75
Increase in sales and	revenue		768%		143%	Decrea	ase $6.30 = 72\%$