1938.

VICTORIA.

STATE ELECTRICITY COMMISSION OF VICTORIA.

NINETEENTH ANNUAL REPORT

COVERING THE

FINANCIAL YEAR ENDED 30TH JUNE, 1938,

TOGETHER WITH

APPENDICES.

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

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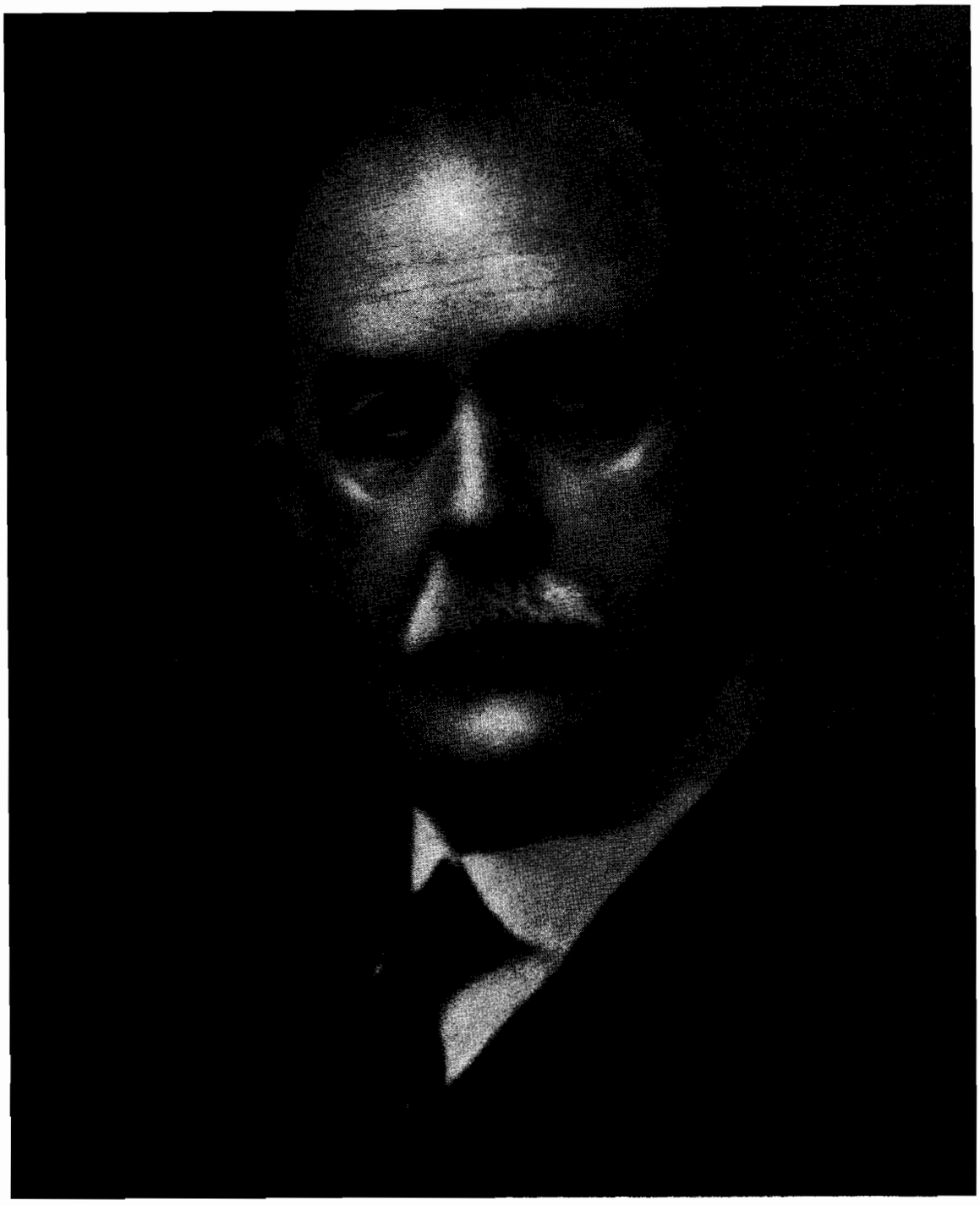

MR. F. W. CLEMENTS, M.Inst.C.E., M.I.E.E., M.I.E. (Aust).

Chairman, State Electricity Commission of Victoria, 1931–1937.

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NINETEENTH ANNUAL REPORT.

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

SIR,—

In conformity with the provisions of Section 35 (*b*) of the State Electricity Commission Act No. 3776, we have the honour to present the Nineteenth Annual Report of the Commission, covering the financial year ended 30th June, 1938, with Balance-sheet and Profit and Loss Account for the period.

PART I.—ADMINISTRATION.

POWER PRODUCTION.

Yallourn.—The extension of generating plant at Yallourn, approved by Parliament in 1928, was brought to completion by the installation of the third 25,000 kW. turbo-generator ready for the winter of 1938. A fourth 25,000 kW. set (approved as an addition to the 1928 plan) will be completed towards the end of 1938, and assist in meeting requirements up to and including the winter of 1940. All the boilers for the extended station have now been erected.

Newport.—The addition of 30,000 kW. of generating plant to the Newport "B" power station will be completed in May, 1939, and bring the installed station capacity up to 60,000 kW.

In the further proposals, approved by Parliament in 1937, for meeting the growing electrical requirements of the State, Newport is to be extended progressively to deal with the peak portion of the demand estimated to obtain between 1939 and 1948. The extensions will be undertaken in three stages, each of 30,000 kW. The first stage will be completed in 1940–41, and the last in 1947–48.

Kiewa.—Design work, surveys, road construction, &c., on the Kiewa Hydro-Electric Scheme (104,000 kW.), forming the primary part of the proposals of 1937, were well advanced during the year. The first instalment of power (20,000 kW.) is to be available in 1941.

The Commission's Civil Engineer (Mr. A. L. Galbraith) and an assistant Civil Engineer (Mr. L. T. Guy) were sent to Europe to obtain at first-hand experience and information upon various matters related to the design and detail of the project.

FUTURE DEVELOPMENT OF THE YALLOURN OPEN CUT.

The Commission has considered a scheme of future development of the open cut workings at Yallourn to meet the requirements of the next 20 to 25 years. In the first instance, it had been intended to purchase a third coal dredger, but, as explained in the Eighteenth Annual Report, this proposal was not proceeded with because international exchange conditions so increased the price that it became desirable to postpone as long as possible the installation of this additional coal-winning machine. The interim measures then adopted will ensure supplies of coal for normal requirements during the next few years.

An essential part of the scheme of development is the replacing of the overburden spoil into the worked-out portion of the cut. Following the inspection in Germany in 1936 by the Commission's Engineer-in-Charge of Coal Supply, it was desired to purchase a machine specially developed for this purpose on the brown coalfields of Germany. In this case also the particularly high overseas tender prices caused a revision of the plans. As an enforced alternative to the purchase and installation of the machine referred to, the Commission is taking steps to adapt its existing overburden plant for the new method of disposal.

POLICY GOVERNING BRIQUETTING ACTIVITIES.

The increased demand for briquettes, and the pressure which the Yallourn factory is undergoing to meet it, are dealt with in Part III. of this Report. Although the same mandatory obligations do not rest on the Commission in regard to the manufacture of fuel as in regard to the production of electricity, the heavy and growing demands upon the briquette factory have required careful consideration. Any considerable increase in the output of briquettes would involve major factory extensions, the first stage of which, under ruling price and wage conditions, would require an expenditure of over £1,000,000. Only the strongest reasons could warrant such a large-scale undertaking, and the financial problem involved is intensified because very heavy capital expenditure will be required, both immediately and in each of several years to come, for extensions of the electricity supply system; the Kiewa and the Newport projects involve an outlay of roundly £9,000,000, in addition to which the ordinary capital requirements for extending supply in new areas and for expansion in centres already served must be met. Moreover, any extension of the factory would mean entering still further into a highly competitive market in which, from the stand-point of fuel vendors, there is not anything like the degree of stability in the governing commercial conditions as there is in the other competitive field with which the State is concerned, viz., service in light, heat, and power.

As it will be necessary to relieve the existing pressure on plant now in use, the Commission has decided to expend, over a period of two years, an estimated amount of £60,000 to provide sufficient spare plant to ensure the maintenance, under normal conditions, of the existing factory output of 1,200 tons a day.

SALE OF ELECTRICAL APPLIANCES.

The *State Electricity Commission (Trading) Act* 1933 prohibited the sale of electrical appliances by the Commission in the metropolitan area and in all provincial cities. During the year under review, in response to a request by the Government to re-examine the position, the Commission advised that it still held to the opinion that the promotion of the extended use of electricity by facilitating the purchase of appliances by consumers is an integral part of the function of electricity supply. At the same time, the Commission indicated that if the legislation were to be amended to permit the Commission to sell electrical appliances throughout the State continuity of policy should be assured, so that the State system and electricity consumers would derive the full benefits of a systematically planned programme, and that the dislocations and consequential losses which resulted from the 1933 Act would be avoided.

ACCIDENT PREVENTION.

In view of the extent and constant expansion of its activities, the Commission decided to appoint a Safety Council from the senior staff personnel. Associated with the Council will be departmental committees and a full-time Safety Officer.

DEMAND FOR ELECTRICITY WITHIN THE STATE SYSTEM AS AT PRESENT DEVELOPED.

The load curves shown in Graph No. 1 illustrate the growth of coincident demand on the whole of the Commission's system for the last three financial years. The Geelong Power Station is now included in the main generating system.

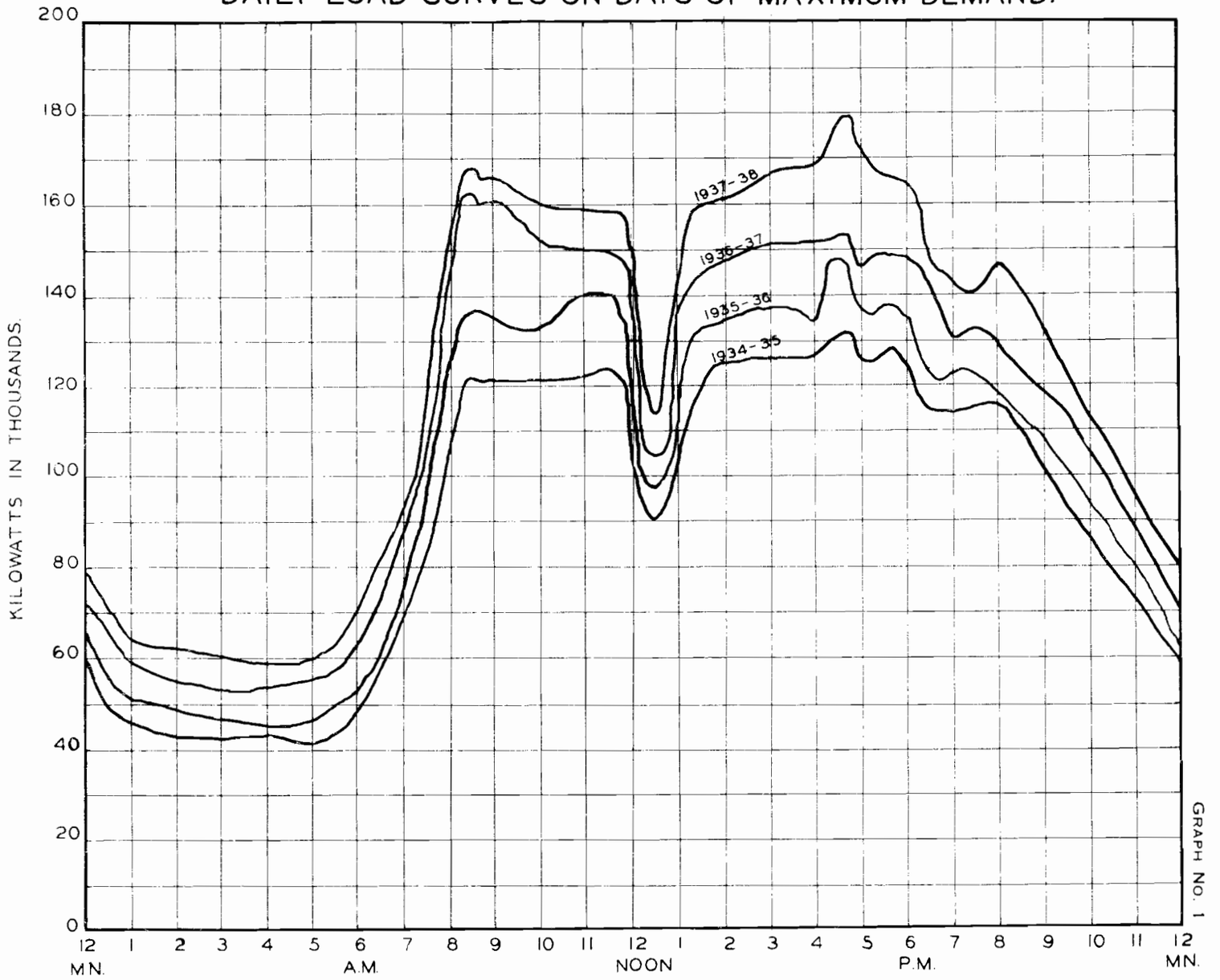
Graph No. 2 shows the predominance of the Yallourn Power Station, the whole of the year's increase in load being carried by this station, which is the only one to which additions have been made for several years. The system maximum demand (including Geelong) was 179,340 kW., an increase of 9,120 kW., or 5·4 per cent. for the year. The number of kWh. generated was 826,217,542, an increase of 9·1 per cent. These well-maintained rates of increase were associated with a rise in system load factor from 50·8 to 52·6.

The total number of kilowatt-hours supplied from all sources in Victoria is shown in Graph No. 3. The increase during the year was practically all supplied by the State System.

The electricity generated by the Commission's power stations is recorded by Graph No. 4.

STATE POWER SYSTEM

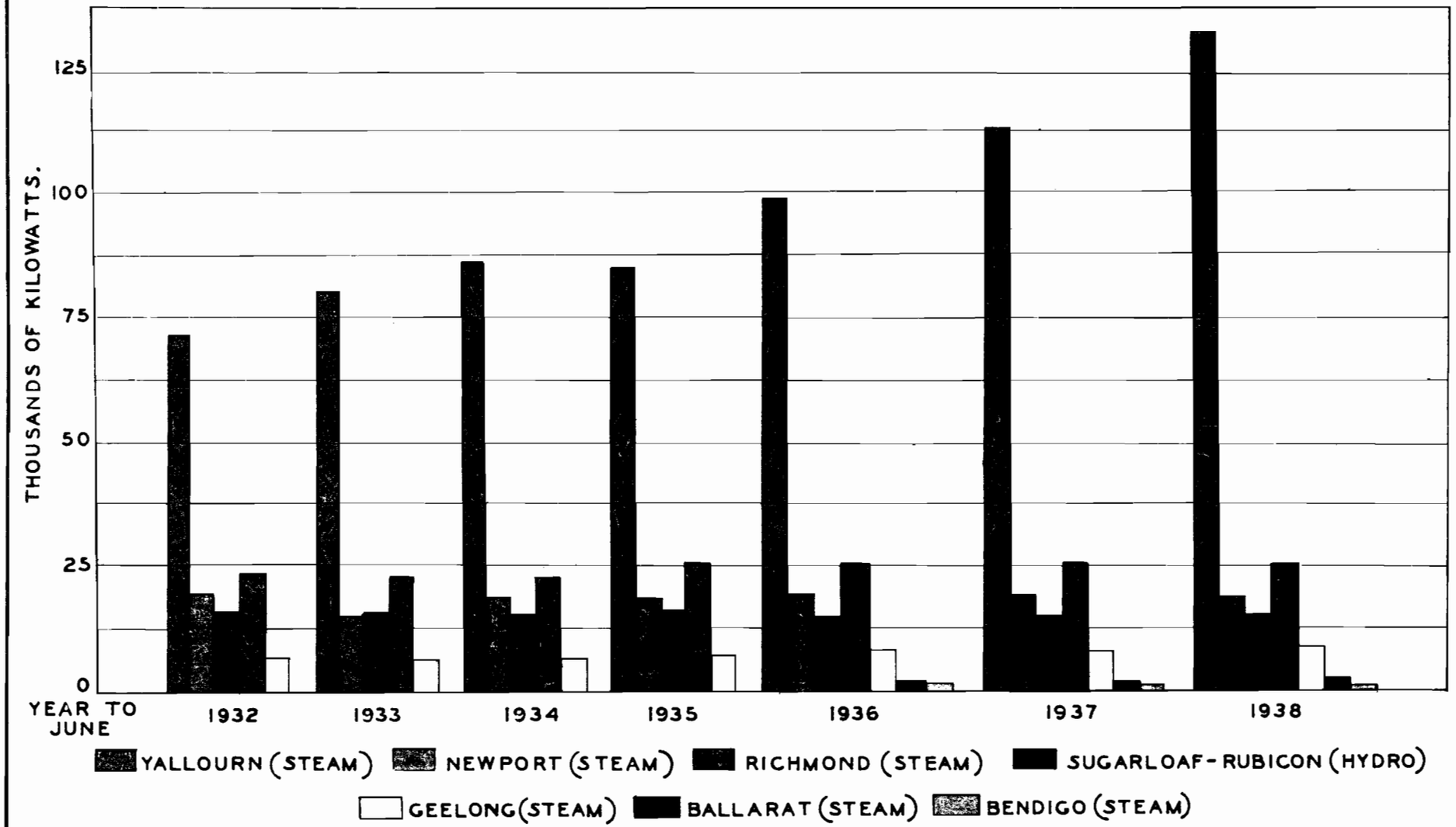
DAILY LOAD CURVES ON DAYS OF MAXIMUM DEMAND.



GRAPH NO. 1

STATE POWER SYSTEM.

MAXIMUM DEMANDS AT GENERATING STATIONS.

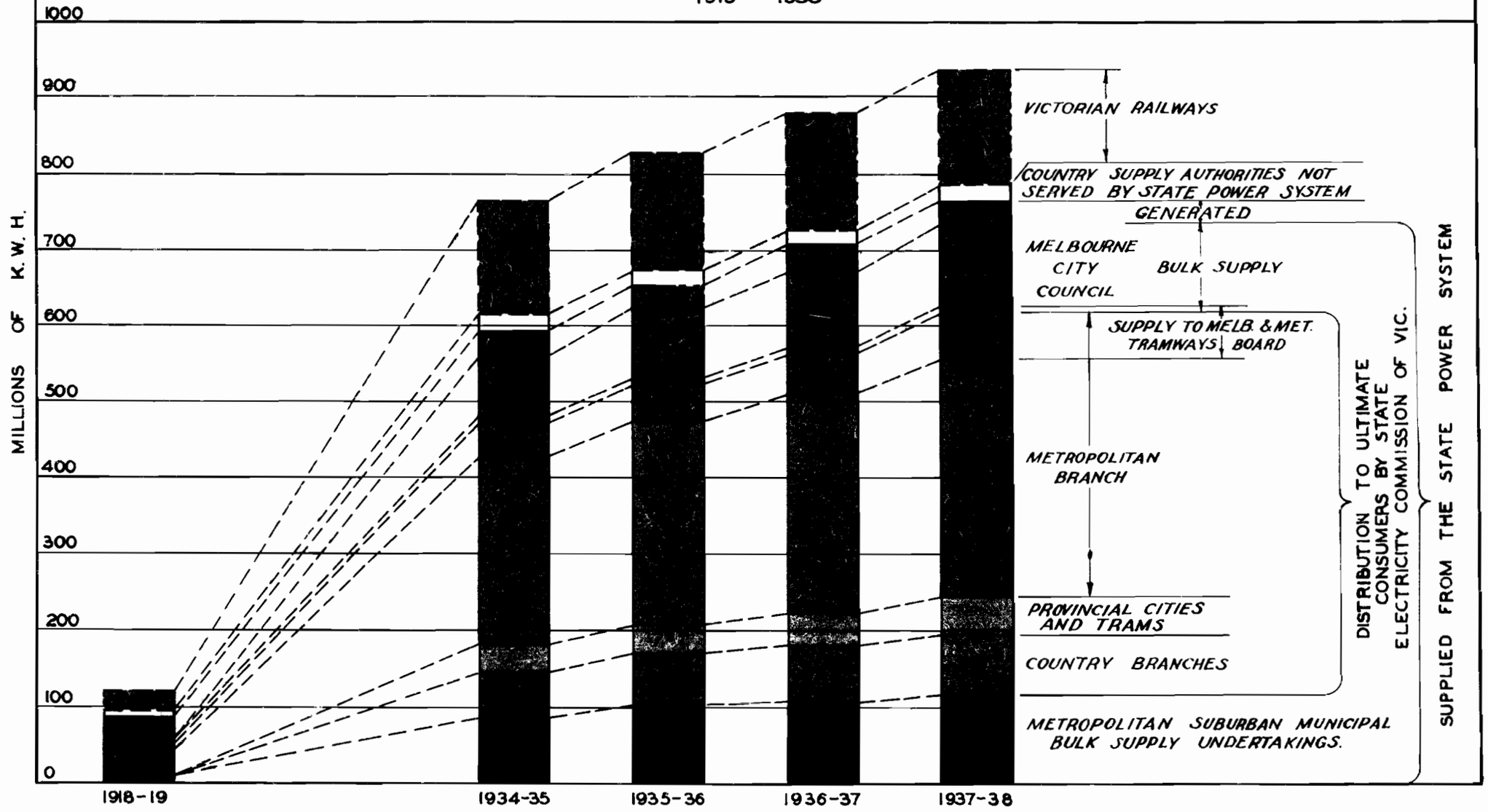


GRAPH NO. 2

STATE OF VICTORIA

SUPPLY AND DISTRIBUTION OF ELECTRICITY BY VARIOUS AUTHORITIES

1919 – 1938

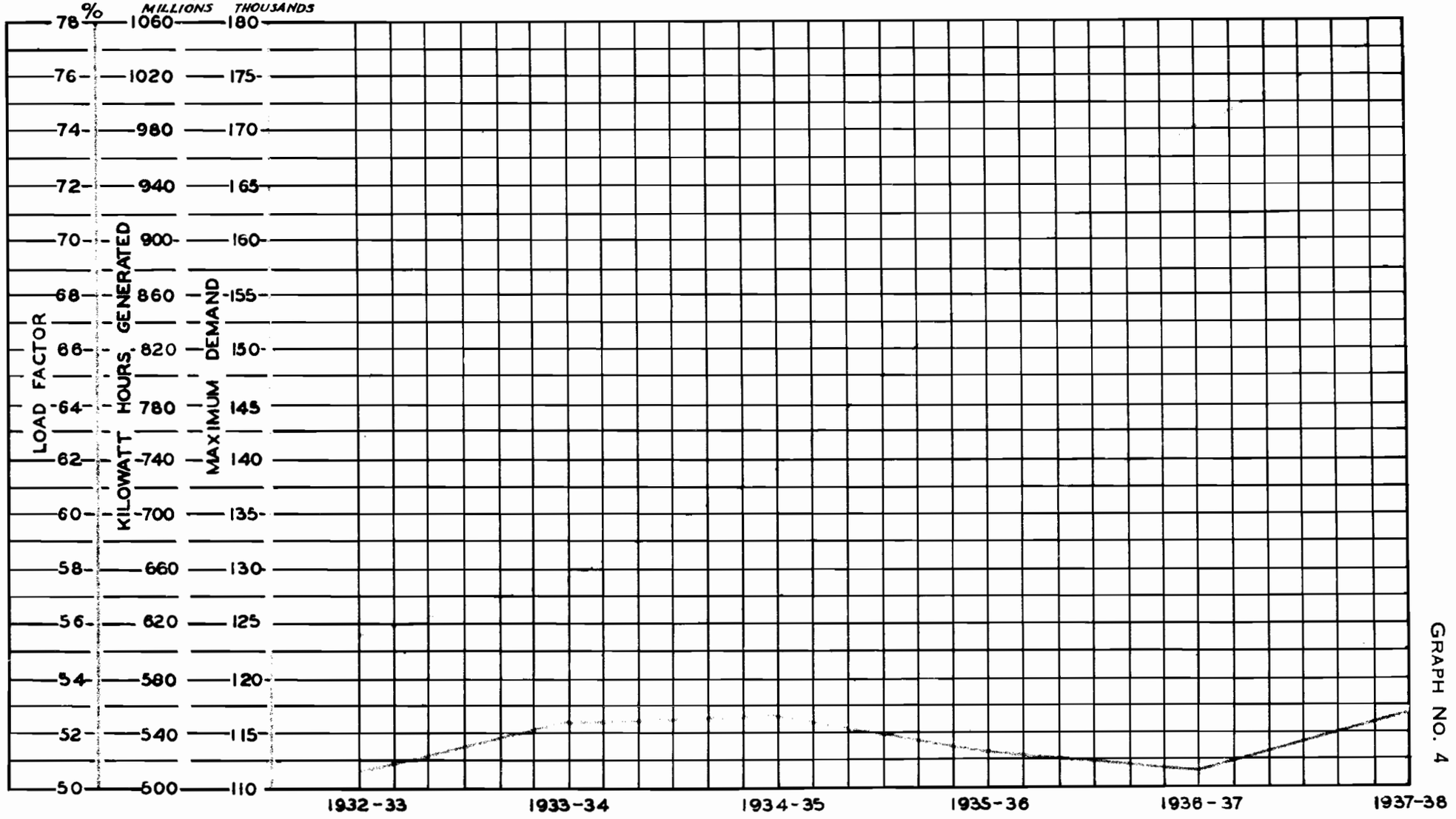


GRAPH NO. 3

STATE ELECTRICITY COMMISSION OF VICTORIA

ENERGY GENERATED FOR MAIN SYSTEM

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

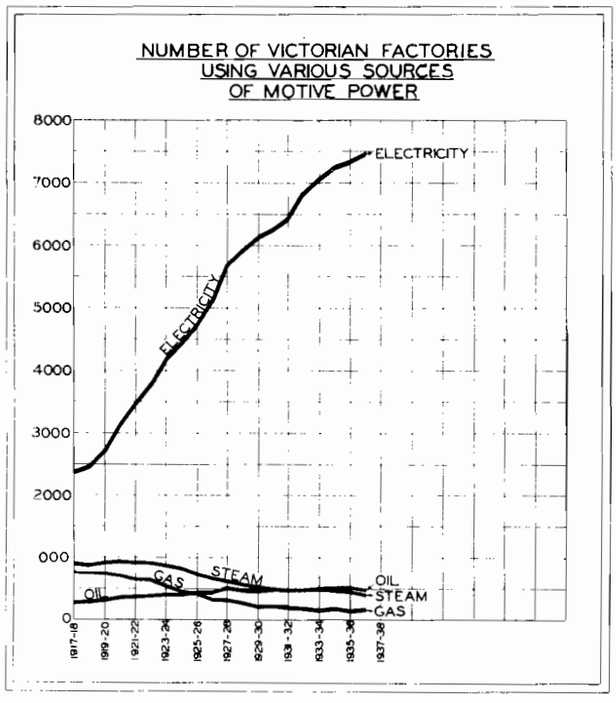


GRAPH NO. 4

ELECTRIFICATION OF INDUSTRY IN VICTORIA.

When the State electricity system was inaugurated in 1919, the legislation constituting the Commission emphasized the industrial aspect of power production and distribution, for it was realized at the time that the cessation of the war would be followed by a rapid development of industry. It was therefore made a statutory duty of the Commission to encourage and promote the use of electricity, "especially for industrial purposes." Victorian industrial statistics show that many diversified industries have now been permanently established on a secure and progressive basis, and that each year is witnessing the extension of existing industries and the establishment of new ones.

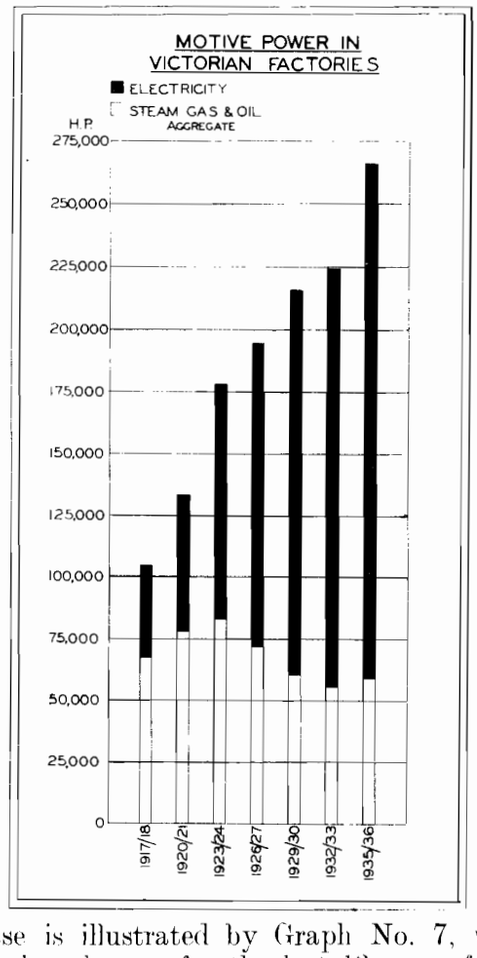
GRAPH No. 5



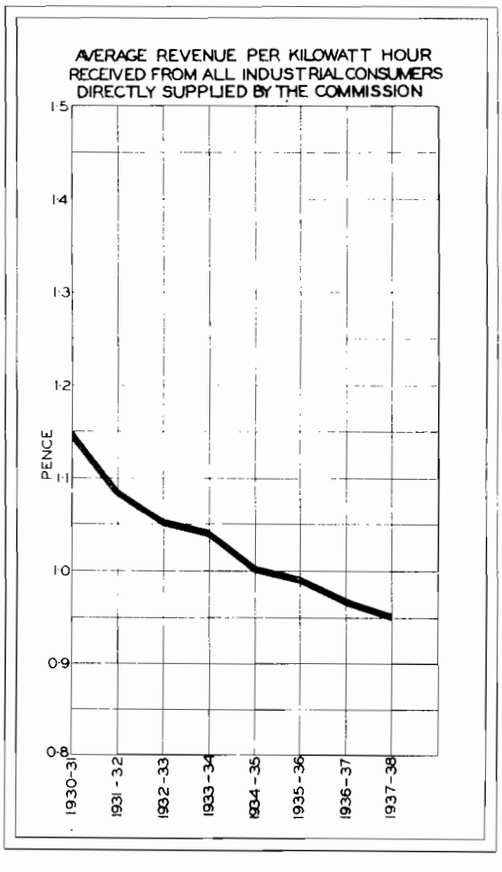
The actual increase in the number of factories that has taken place in Victoria since 1917–18 is shown in Graph No. 5, which also demonstrates the ever-growing dependence of industry upon electricity as a source of power. In this latter respect, the electrification of industry in Victoria has been in line with world-wide development, the contributing factors being the reliability and availability at all times of supply from large interconnected systems, and the steady decline in the cost of electricity, due to improvement in the technique of generation and transmission and the development of consumer demand.

Graph No. 6 shows that during a period of 19 years, the horse-power of electric motors and engines used in Victorian factories rose from 104,795 to 265,784, an increase of 160,989 horse-power. The steady reduction in the cost of electricity associated with this

GRAPH No. 6



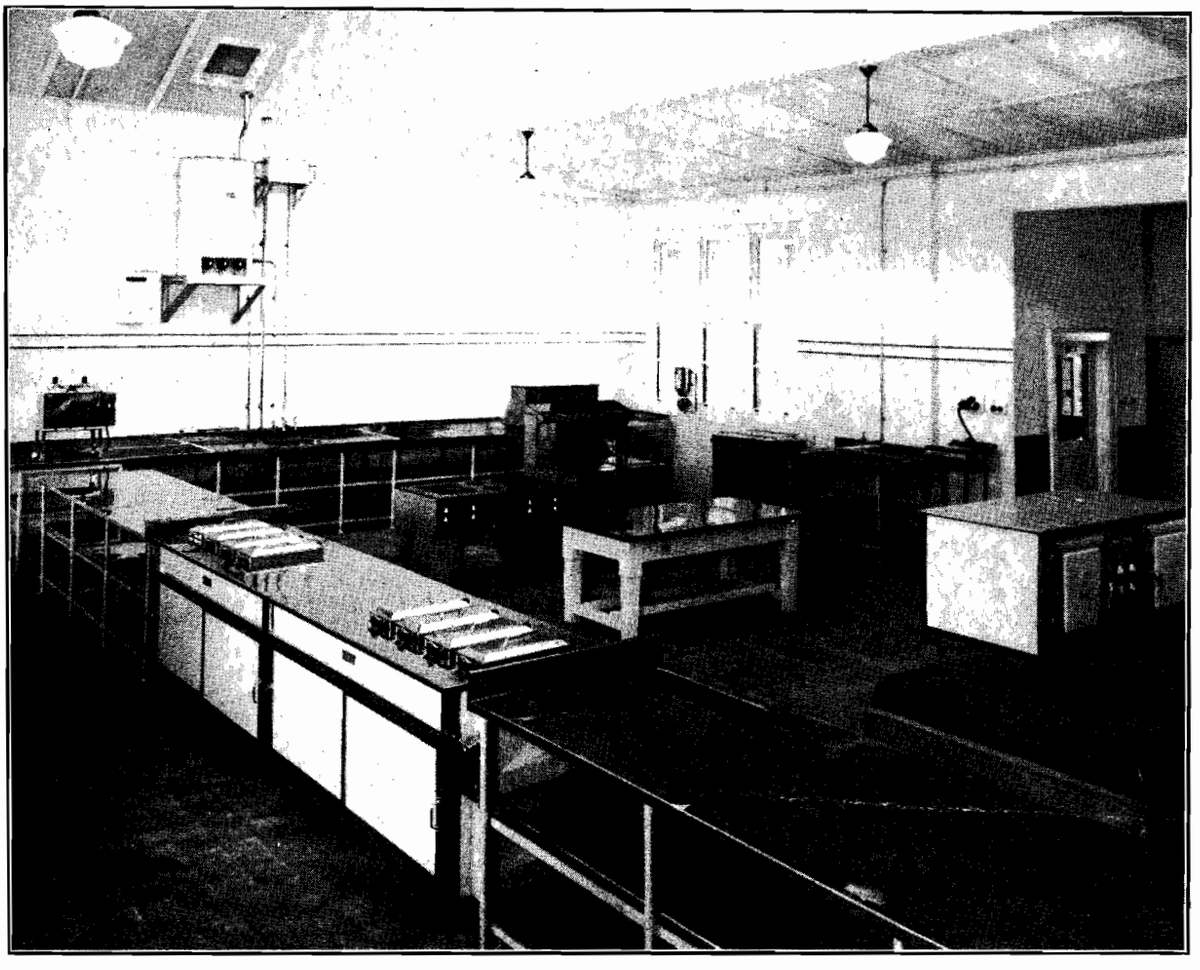
GRAPH No. 7



increase is illustrated by Graph No. 7, which shows the average revenue per kilowatt-hour received each year for the last 13 years from industrial consumers in all areas—metropolitan and country—served by the Commission.

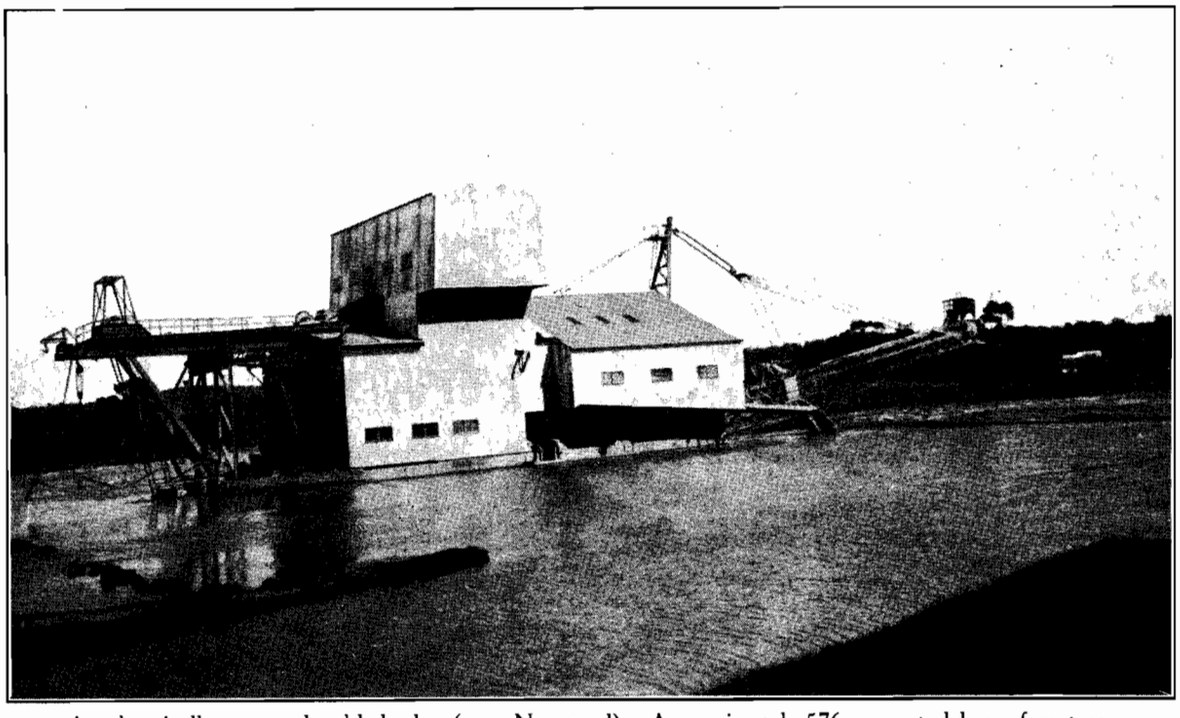
The increase during the year in the industrial use of electricity in all areas served by the State System was 17,722,433 kilowatt-hours, or 7·4 per cent. Among the country industrialists served are 61 consumers who obtain supply for gold-mining operations; these include some of the largest gold producers in the State.

The subjects of the photographs reproduced are a few examples of the more important applications of electricity to industry in Victoria, and they illustrate also the variety of these applications in city and country.

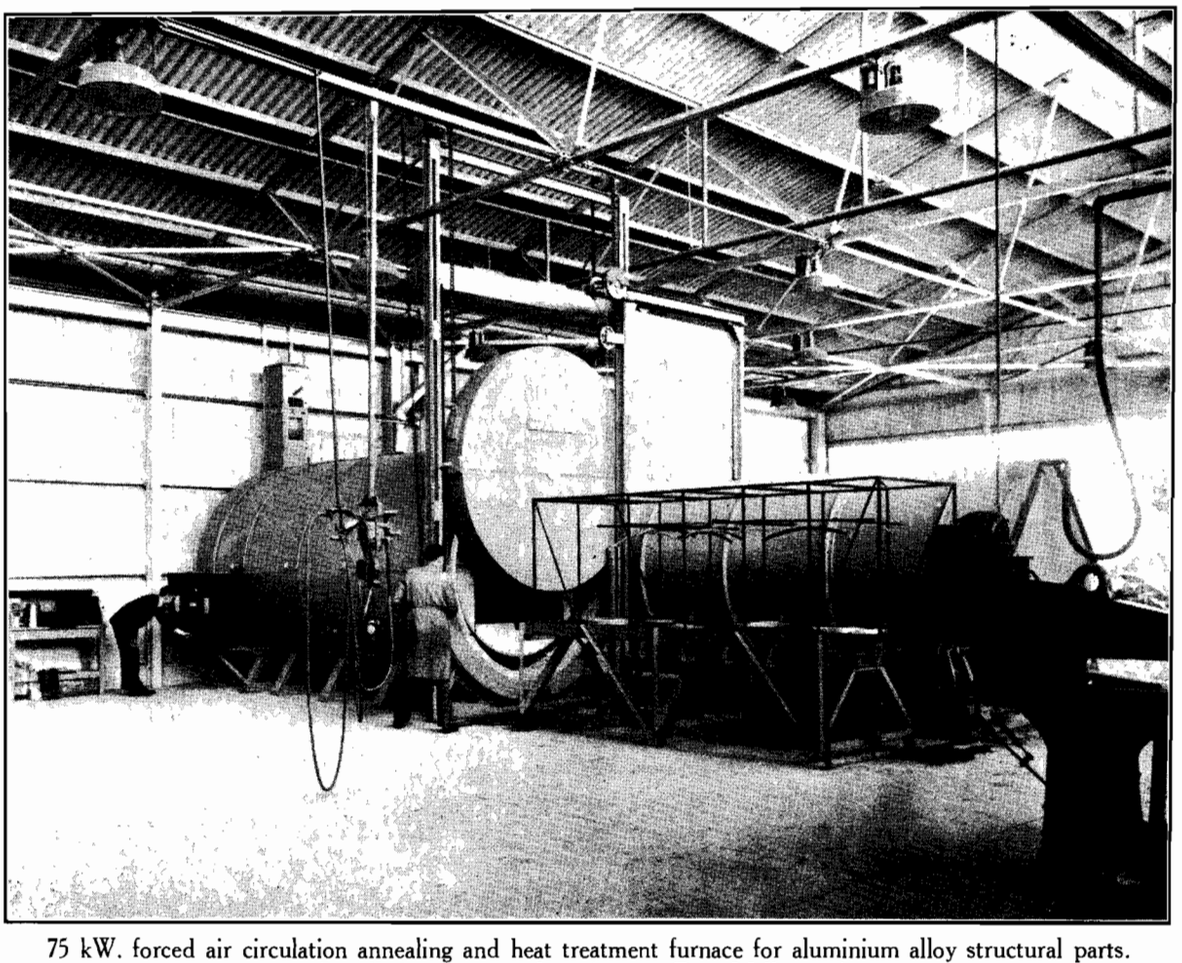


Electric cooking equipment installed at an explosives factory (Maribyrnong); 90 kW. of equipment installed.

The specialized service given to Victorian industrialists by the Commission includes advice to consumers regarding the application and estimated operating costs of the most suitable electrical apparatus for a particular service, and tests of consumers' apparatus and plant to ensure that the best possible results are obtained from the use of electricity. In addition, educational brochures are published from time to time, dealing with the application of electricity to widely varied industries.



An electrically-operated gold dredge (near Newstead). Approximately 576 connected h.p. of motors are installed.



75 kW. forced air circulation annealing and heat treatment furnace for aluminium alloy structural parts. Installed at an aeroplane factory (Port Melbourne).

Application of discharge type lamps in a motor assembly plant (Port Melbourne).

COUNTRY ELECTRICAL DEVELOPMENT.

In pursuance of its duty to secure the co-ordination, amalgamation and inter-connexion of all State and other electrical undertakings in Victoria, it has been necessary from time to time for the Commission to arrange for the merging of various local undertakings in the State system. Only in this way has it been possible to form economic and homogenous supply areas, and to extend service to small centres and farms which otherwise would not enjoy the uses and benefits of electricity. Up to the present time, seventy-two local undertakings have been acquired, leading to the linking up of nearly 300 other centres and roundly 3,500 farms not previously served. The Commission plans ahead in regard to rural electrification, and each year a five-year programme is revised.

This year the programme embraced the acquisition of the following undertakings:

Castlemaine Branch: Maryborough and Dunolly.
Gippsland Branch: Toora, Foster and Thorpdale.
North-Eastern Branch: Stanhope.

All of these places are now linked with the Commission's transmission system, while the opportunity has been afforded to extend supply to other places and farms in the same areas. The acquisition of the Maryborough undertaking paved the way for an extension of the transmission system to Dunolly, and not only was an ample supply of electricity for mining purposes made available, but extensions to Newstead and Carisbrook also became practicable. Similarly, the Toora-Foster-Welshpool extension brought Fish Creek, Port Franklin and Bennison within economic range of supply, and that at Stanhope was associated with an extension to Girgaree. Further extensions in the same districts will be carried out in due course.

North-Western Area of Victoria.—Following a request by a conference of municipal councils convened by the Wycheproof Shire Council, the Commission investigated the practicability of extending supply to that portion of the North-Western area of the State, contiguous to the Calder Highway. This area includes such towns as Boort, Mysia, Borung, Inglewood, Wedderburn, Charlton, Wooroonook, Donald and Wycheproof, and covers an area of over 5,000 square miles, or one-sixteenth of that of the whole State. As a result of the survey, it was estimated that the extension would involve capital expenditure amounting to £138,000, and that there would be a recurring annual loss of £5,000, with an accumulated loss of £27,000 for the first five years. These facts were conveyed to the convenors of the conference, with an expression of regret that the result of the investigation had proved so disappointing.

Arising from this decision, the Commission later approved of a scheme submitted by the Wycheproof Shire Council for the extension of the Wycheproof generating station and the supply of alternating current in Wycheproof and Sea Lake, as well as in the intermediate townships of Berriwillock, Culgoa, Mullewil and Dumosa, at a total estimated cost of £27,750. Under this project, existing engines of useful capacity at Wycheproof and Sea Lake will be retained for use at these places for periods of light loading and overhaul.

INDUSTRIAL.

Disposition of Commission's wages employees at 30th June, 1938 :—

	Operation.	Construction.
Power Generation	501	199
Main Transmission Lines, Terminal Stations and Sub-stations	414	277
Electricity Supply—Metropolitan Branch	574	180
Electricity Supply—Country Branches	354	141
Briquette Production and Distribution	371	15
Coal-Winning, Yallourn	409	33
General Services and Workshops, Yallourn	425	37
General Services and Workshops elsewhere	742	102
Tramways Ballarat, Bendigo and Geelong	198	4
	3,988	988

GRAND TOTAL .. 4,976.

Alterations in base rates due to change in the cost of living figures added £79,148 to the Commission's expenditure during the year, while the additional expenditure resulting from new awards, increased margins and the introduction of a 44-hour week in the Australian Workers' Union Award was £5,240, making a total increase at the rate of £84,388 per annum.

During the year, the number of indentured apprentices in all activities was increased.

Following the deregistration of the Amalgamated Engineering Union by the Arbitration Court, the members of that organization in Melbourne and Yallourn presented logs of claims to the Commission early in June, and on the 23rd June all members of the Union employed at Yallourn ceased work. Members of the Union employed in the metropolitan area supported the strike to the extent of refusing to work overtime ; the strike ended on the 11th August, 1938.

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 more important features of the principal accounts are reviewed hereunder in the order in which they appear in the published balance-sheet:—

LOAN LIABILITY.

The total indebtedness of the Commission at the 30th June, 1938, amounted to £19,242,265, including the liability to the State of Victoria (£17,338,297), Unemployment Relief Fund (£93,986), State Electricity Commission of Victoria Loans (£1,744,540), and Municipal Debentures (£65,442).

In comparison with the previous year, loan indebtedness shows an increase of £559,850, made up as follows:—

	£	£
Under State Electricity Commission Loan No. 4 (State Savings Bank of Victoria, £800,000)		700,000
Less—		
Reduction in indebtedness to State through National Debt Sinking Fund	109,739	
Redemption of State Electricity Commission Loans ..	10,820	
Repayment of first instalment of £100,000 borrowed for Tramway reconstruction	6,014	
Repayment of discount and flotation expenses	4,928	
Redemption of Municipal Debentures	8,649	
		140,150
		559,850

BORROWING POWERS.

Under the *State Electricity Commission (Financial) Act* 1937, passed by Parliament during the year, the borrowing powers of the Commission were increased to £10,500,000.

The Act enhances the security offered to lenders in that it covers the whole of the areas controlled by the Commission instead of only those previously controlled by the Melbourne Electric Supply Company Ltd.; further, the security is now guaranteed by the Government of Victoria.

The Act also makes provision for lenders under the previous Act to convert their holdings to the better security, and already nearly the whole of these holdings have been so converted.

A new loan was negotiated during the year, £800,000 being secured from the State Savings Bank of Victoria at a rate of $3\frac{7}{8}$ per cent., with a currency of ten years. Up to the date of the Balance-sheet, only £700,000 of the loan had been taken up.

The suit instituted against the Government by the Melbourne Electric Supply Company Ltd., claiming payment of certain debentures in the currency of the country in which the debentures were held, has not yet been settled. This action, to which reference was made in the Seventeenth and Eighteenth Annual Reports, and to which the Commission is a party, involves an amount of about £176,000.

RESERVES.

The Depreciation and Sinking Funds at 30th June, 1938, stood at £5,238,933, or an increase of £575,824 (including £148,701 interest on the Depreciation Fund) over the figure at 30th June, 1937. Of this amount, £866,821 was to the credit of the National Debt Sinking Fund, £4,328,638 to the credit of the Depreciation Fund (which is invested in the business of the Commission), £37,460 to the credit of the State Electricity Commission Sinking Fund, and £6,014 to the credit of the National Recovery Loan Fund Reserve.

The last-mentioned amount represents the reserve created by the first of the annual instalment repayments to be made in respect of £100,000 borrowed for the reconstruction of Ballarat and Bendigo Tramways at the time of their acquisition from the Electric Supply Company of Victoria Ltd. The full amount of the loan has to be repaid in thirteen years.

Following the practice of the last two years to make provision for unforeseen happenings of a major nature, a further appropriation of £50,000 was made to the Contingency Reserve. This fund is invested outside the business in trustee securities.

The Reserve for Bad Debts increased by £1,720. The provision made for bad debts was reduced from $\frac{1}{4}$ of 1 per cent. to $\frac{1}{8}$ of 1 per cent. in 1937–38, and this reduced rate was found sufficient to cover the amount of debts actually declared to be bad, viz., £3,056.

CAPITAL EXPENDITURE.

After allowing for writings out and adjustments, the net addition to Fixed Capital Account was £1,060,579 against £772,073 for the previous year. The accounts mainly affected are as follows:—

	£
Coal Supply Works	18,375
Briquette Factory	10,055
Power Stations—	
Yallourn	266,852
Newport	40,205
Kiewa Area	17,973
Transmission Lines—	
Newport to Brunswick	31,540
Metropolitan Area	41,142
Ballarat Branch	12,621
Castlemaine Branch	17,482
Eastern Metropolitan Branch	18,018
Gippsland Branch	47,398
North-Eastern Branch	12,444
South-Western Branch	44,262
Terminal Stations—	
Yarraville	11,785
Richmond	27,623
Geelong	13,516
Brunswick	18,160
Transmission Sub-stations—	
Metropolitan Area	59,005
Distributing Systems—	
Metropolitan Branch	152,833
Ballarat Branch	19,140
Castlemaine Branch	15,112
Gippsland Branch	31,884
South-Western Branch	16,657
Town of Yallourn	28,853
General—	
Yallourn	13,739
Metropolitan	57 577

CURRENT AND ACCRUED ASSETS.

Sundry Debtors.—Allowing for certain large Bulk Supply accounts not paid until July this year, the ratio of Sundry Debtors to revenue remains the same as last year.

Stores.—Stores increased by £126,420 over the total at the end of June, 1937. This increase was essential to cover the heavy construction programme carried out during the year, as well as to make provision for the still heavier construction programme to be undertaken, particularly in connexion with the Kiewa hydro-electric scheme and the extensions to the Newport "B" power station.

RESERVE FUNDS.

Sinking Fund (£4,992): Amount invested by municipalities towards redemption of debentures guaranteed by the Commission, and accruing to the Commission upon redemption of such debentures.

Contingency Fund (£161,650): Investment to date of the Contingency Reserve, plus interest accrued.

EXPENDITURE TREATED AS IN SUSPENSE.

Overburden Removal and Disposal (£312,654): Reduced by £23,586 during the year, representing the difference between the cost of removing overburden for the period, and the amount charged from the account to Coal Winning at the rate of 8d. per ton of coal won.

Loan Flotation Expenses (£243,888): £18,840 was written off this account during the year in accordance with the usual practice.

Amount Charged to Commission by Treasury in Accordance with 1922 Decision of the Government (£22,023): Balance of an amount of £62,023 charged by the Government; it is being reduced by £5,000 annually.

Hospital and Health Centre, Yallourn (£23,241): Decrease of £2,894 on the previous year, due to amortization of total expenditure over ten years. These assets are entirely maintained by the Yallourn Medical and Hospital Society.

Miscellaneous (£51,704): The main item covered by this account—cost of exchange on the redemption of the Melbourne Electric Supply Company Limited, 7½ per cent American Gold Bonds—is being liquidated over ten years.

PROFIT AND LOSS ACCOUNT.

Revenue from Electricity Supply increased by £200,413 over the previous year, while expenditure increased by £170,781. Briquetting revenue increased by £57,407 against an increase in expenditure of £49,435, and the loss in 1936–37 of £6,470 was converted into a profit of £1,502.

An increase in the loss on tramways from £26,241 to £57,522 is referred to under Tramways in this part of the Report.

The net profit for the year (£53,829) compares favorably with that of last year (£38,901) and the accumulated loss sustained in the early years of operation was reduced to £629,053.

STATE ELECTRICITY COMMISSION OF VICTORIA.

RESULTS OF OPERATIONS OF ALL ACTIVITIES.

SUMMARY OF INCOME AND EXPENDITURE.

Year Ended 30th June, 1937.				Year Ended 30th June, 1938			Compared with Year Ended 30th June, 1937 + or −
£	£	£		£	£	£	£
		3,339,560	Electricity Supply Revenue			3,539,973	+ 200,413
		337,227	Briquetting Revenue			394,634	+ 57,407
		76,142	Tramway Revenue			75,567	− 575
		7,500	Miscellaneous Revenue			1,008	− 6,492
		3,760,429	Total Revenue			4,011,182	+ 250,742
		2,010,516	*Less* Working and Administration Expenses			2,206,335	+ 195,819
		1,749,913	Surplus on Operations			1,804,847	+ 54,934
	1,005,300	..	*Less* Interest		1,028,031	.. ..	+ 22,731
	480,571	..	Depreciation and Sinking Fund		512,944	.. ..	+ 32,373
	30,208	..	Provident Fund Contributions		34,561	.. ..	+ 4,353
			Available for Appropriation—				
50,000	..	..	To Contingency Reserve	50,000	..	.. ..	—
57,965	..	..	Special Writings off, &c.	42,910	..	.. ..	− 15,055
10,640	..	..	Redemption of Debentures	10,565	..	.. ..	− 75
18,840	..	..	Loan Flotation Expenses	18,840	..	.. ..	—
			Special Expenditure—				
45,984	..	..	Water Power Investigations, &c.	38,274	..	.. ..	− 5,710
8,504	..	..	Administration of Electric Light and Power Act	9,893	..	.. ..	+ 1,389
5,000	..	..	Liquidation of Liability of £62,023 imposed by State Government, 1922	5,000	..	.. ..	—
	194,933				175,482	.. ..	− 19,451
		1,711,012				1,751,018	+ 40,006
		38,901	Net Profit			53,829	+ 14,928

COMMERCIAL.

ELECTRICITY SUPPLY—STATISTICAL ANALYSIS.

Including bulk supplies, the increase in sales of electricity was 52,994,050 kWh., or 8½ per cent., over those for 1936–37. The metropolitan area contributed approximately 47 million kWh. to this increase, due mainly to the greater use of electricity by existing consumers. The remainder of the year's increase was recorded in the provincial cities and the country areas, and is accounted for by the growth of the demand in centres that already were being served and the extension of supply to new areas.

The following is a comparison of sales of electricity during the last five years:—

Year.	Sales, kilowatt-hours.
1933–34	474,452,023
*1934–35	519,566,774
1935–36	578,103,971
1936–37	626,814,760
1937–38	679,808,810

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

VARIATION IN CONSUMPTION OF CONSUMER CLASSES IN COMMISSION'S RETAIL AREAS.

—	Industrial.		Commercial.		Domestic.	
	1937–38 compared with 1936–37.	1936–37 compared with 1935–36.	1937–38 compared with 1936–37.	1936–37 compared with 1935–36.	1937–38 compared with 1936–37.	1936–37 compared with 1935–36.
	%	%	%	%	%	%
Metropolitan Branch	+ 9·6	+ 8·9	+ 7·9	+ 10·8	+ 8·1	+ 12·1
Ballarat Branch	+ 10·4	+ 8·5	+ 4·0	+ 12·4	+ 10·4	+ 16·2
Bendigo ,,	− 31·9	+ 8·9	+ 10·7	+ 17·5	+ 14·2	+ 21·4
Geelong ,,	− 4·9	+ 1·4	+ 16·3	+ 5·4	+ 6·2	+ 11·8
Country Branches	+ 8·0	+ 20·4	+ 13·6	+ 15·0	+ 18·0	+ 15·2
Overall	+ 7·4	+ 9·3	+ 9·5	+ 11·6	+ 9·5	+ 12·7

Domestic.—The following table shows the growth in the average yearly consumption per consumer for the last five years:—

Year.	Average Consumption per Domestic Consumer.
1933–34	446 kilowatt-hours.
1934–35	466 ,, ,,
1935–36	487 ,, ,,
1936–37	520 ,, ,,
1937–38	540 ,, ,,

METROPOLITAN MUNICIPAL DISTRIBUTING AUTHORITIES.

The following table shows the extent to which the metropolitan distributing authorities increased their demands on the State system:—

—	1937–38 compared with 1936–37.	1936–37 compared with 1935–36.
	%	%
Box Hill City Council	+ 7·6	+ 13·1
Brunswick City Council	+ 11·1	+ 9·2
Coburg City Council	+ 8·1	+ 7·3
Footscray City Council	+ 1·2	+ 0·8
Heidelberg City Council	+ 5·9	+ 9·1
Melbourne City Council	+ 11·4	+ 3·3
Northcote City Council	+ 13·7	+ 8·4
Port Melbourne City Council	+ 9·0	+ 10·5
Preston City Council	+ 9·2	+ 6·4
Williamstown City Council	+ 18·5	+ 2·1
Overall	+ 9·7	+ 5·1

ELECTRICITY SUPPLY.—ALL UNDERTAKINGS SERVED BY STATE SYSTEM.

Year Ended 30th June.	Kilowatt-hours Sold (Millions).						Total Revenue.	Average Revenue per kWh. Sold.		Commission's Undertakings.						
	Bulk Supply Undertakers.	Commission's Undertakings.						Excluding Bulk Supplies.	Bulk Supplies Only.	Population of Area of Supply.	Number of Consumers.	Percentage of Consumers to Population.	kWh. Sold per Consumer (Average).	Motors Connected.		Number of Farms Supplied.
		Public Lighting.	Domestic.	Industrial.	Commercial.	Total.								Number.	H.P.	
							£	*d.*	*d.*							
1932	**152·112**	**11·026**	**60·047**	**151·935**	**28·876**	**403·996**	**2,453,586**	**1·950**	**0·642**	**824,000**	**181,042**	**22·0**	**1,404**	**18,662**	**163,949**	..
1933	165·023	10·920	64·547	168·049	30·491	439·030	2,569,972	1·869	0·635	831,000	186,175	22·4	1,495	19,760	169,646	1,069
1934	178·449	11·049	70·409	180·811	33·734	474·452	2,709,064	1·821	0·622	880,000	192,969	21·9	1,564	21,007	173,699	1,196
1935	**181·900**	**11·681**	**81·367**	**203·114**	**39·437**	**517·499**	**2,996,488**	**1·785**	**0·660**	**972,000**	**213,669**	**22·0**	**1,601**	**24,260**	**191,550**	**1,375**
1936	211·004	11·975	89·630	219·996	44·231	576·836	3,164,086	1·705	0·644	972,000	225,534	23·2	1,663	26,608	204,503	1,970
1937	220·031	12·408	100·994	240·551	49·372	623·356	3,331,934	1·632	0·643	984,000	235,942	24·0	1,746	29,063	213,667	2,615
1938	**241·988**	**12·950**	**110·597**	**258·274**	**54·080**	**677·889**	**3,528,396**	**1·588**	**0·638**	**1,018,000**	**249,244**	**24·5**	**1,794**	**32,386**	**227,903**	**3,426**
METROPOLITAN BULK UNDERTAKERS (10).																
1938	**233·215**	..	..	..	..	**233·215**	**608,603**	..	..	..	..	..	..	..	..	..
1937	212·501	..	..	..	..	212·501	558,641	..	..	..	..	..	..	..	..	..
COMMISSION'S ELECTRICITY SUPPLY UNDERTAKINGS FOR LOCAL DISTRIBUTION (9).																
Metropolitan **1938**	**0·512**	**10·861**	**87·761**	**214·230**	**35·201**	**348·565**	**2,005,718**	**1·382**	**0·914**	**682,427**	**173,554**	**25·20**	**2,039**	**21,908**	**166,142**	**17**
1937	0·400	10·530	81·177	195·475	32·626	320·208	1,926,716	1·445	0·877	657,837	167,456	25·46	1,941	20,060	158,489	13
Ballarat **1938**	..	**0·199**	**1·522**	**2·137**	**1·914**	**5·772**	**84·024**	**3·494**	..	**44,120**	**8,438**	**19·13**	**719**	**1,220**	**6,246**	**41**
1937	..	0·167	1·378	1·935	1·841	5·321	79,334	3·579	..	39,660	7,695	19·40	707	1,104	5,846	32
Bendigo **1938**	..	**0·358**	**1·374**	**4·745**	**1·645**	**8·122**	**81,826**	**2·418**	..	**32,391**	**7,271**	**22·45**	**1,131**	**797**	**6,140**	**94**
1937	..	0·333	1·203	6·972	1·486	9·994	86,305	2·072	..	31,809	7,081	22·26	1,441	817	8,154	90
Castlemaine .. **1938**	..	**0·175**	**1·118**	**1·270**	**0·985**	**3·548**	**47,228**	**3·194**	..	**28,145**	**4,831**	**17·16**	**828**	**428**	**2,969**	**134**
1937	..	0·138	0·890	0·436	0·801	2·265	34,332	3·638	..	20,728	3,205	15·46	746	250	1,319	124
Eastern Metropolitan **1938**	**1·050**	**0·376**	**5·776**	**2·659**	**3·521**	**13·382**	**140,094**	**2·636**	**1·062**	**53,897**	**13,037**	**24·19**	**983**	**848**	**5,910**	**892**
1937	0·986	0·325	4·989	1·781	3·280	11·361	126,871	2·834	1·062	50,762	11,914	23·47	903	672	3,895	755
Geelong **1938**	..	**0·259**	**3·526**	**14·109**	**3·307**	**21·201**	**169,167**	**1·915**	..	**55,450**	**12,633**	**22·78**	**1,713**	**2,684**	**17,503**	**132**
1937	..	0·263	3·320	14·835	2·844	21·262	162,055	1·829	..	54,800	12,074	22·03	1,798	2,510	16,830	125
Gippsland .. **1938**	..	**0·244**	**3·320**	**5·584**	**2·387**	**11·535**	**128,127**	**2·666**	..	**50,735**	**10,864**	**21·41**	**1,142**	**1,886**	**7,572**	**1,193**
1937	..	0·222	2·745	3·931	2·014	8·912	108,295	2·917	..	43,795	9,402	21·47	1,004	1,382	5,420	878
North Eastern .. **1938**	**7·211**	**0·279**	**3·069**	**9·580**	**2·671**	**22·810**	**167,883**	**2·145**	**0·947**	**51,262**	**10,420**	**20·34**	**1,549**	**1,417**	**10,039**	**469**
1937	6·143	0·250	2·602	11·869	2·252	23·116	163,692	1·958	0·984	48,752	9,710	19·93	1,809	1,182	8,593	286
South Western .. **1938**	..	**0·161**	**2·125**	**3·960**	**1·546**	**7·792**	**87,649**	**2·700**	..	**35,319**	**7,349**	**20·81**	**1,117**	**1,144**	**5,243**	**454**
1937	..	0·151	1·732	3·317	1·343	6·543	78,115	2·866	..	32,562	6,597	20·26	1,040	1,029	4,970	312
Total **1938**	**8·773**	**12·912**	**109·591**	**258·274**	**53·177**	**442·727**	**2,911,716**	**1·591**	**0·959**	**1,013,746**	**248,397**	**24·50**	**1,791**	**32,332**	**227,764**	**3,426**
1937	7·529	12·379	100·036	240·551	48·487	408·982	2,765,715	1·635	0·989	980,705	235,134	23·99	1,744	29,006	213,516	2,615

Note.—Above figures do not include allowances for meters unread at 30th June, 1938.

COMMISSION'S ELECTRICITY SUPPLY UNDERTAKINGS FOR LOCAL DISTRIBUTION.

The following statistical data relating to the nine branches of the Commission's Electricity Supply Department is summarized from information contained in this Report :—

(a) CONSUMERS at the 30th June, 1938, numbered 248,397, an increase of 13,263 (5.6 per cent.) over the previous year.

(b) SALES OF ELECTRICITY for all purposes aggregated 444,899,258 kilowatt-hours, an increase of 33,744,648 kilowatt-hours (8 per cent.) for the year.

(c) REVENUE for the year amounted to £2,923,294, an increase of £149,953 (5·4 per cent.), while the introduction of further tariff reductions and modifications, together with the increased sales of electricity, resulted in the revenue per kilowatt-hour sold decreasing to 1·585d.

(d) NUMBER OF CENTRES being served at the end of the year was 378, an increase of 50, including six in which existing undertakings were acquired. Included in the number of centres served are 275 which previously did not have electricity.

(e) NUMBER OF FARMS at the end of the year was 3,426, an increase of 811.

An outstanding feature of the year's operations was the progress with the planned programme of rural electrification. A map is included in this section of the Report showing the extent to which Victoria is served by the State system. In amplification of the map, the following information will be found of value :—

Metropolitan Branch.—The seventeen municipalities formerly served by the Melbourne Electric Supply Company Ltd., together with Essendon-Flemington, Sunshine, Deer Park, portion of the Shire of Broadmeadows, and the former Western Metropolitan Branch area, covering Altona, Laverton, Point Cook, Werribee, and Werribee South, are supplied by this Branch, which serves 173,555 consumers. The remainder of the metropolitan area is supplied by the State system in bulk through the medium of ten municipal undertakings, including the City of Melbourne.

Ballarat Branch.—This branch, which administers the local tramway system, includes the area formerly served by the Electric Supply Company of Victoria Ltd. Its electricity supply area now embraces the City of Ballarat, the Boroughs of Clunes and Sebastopol, portion of the Ballarat Shire, the Buninyong Riding of the Buninyong Shire, and portion of the Creswick Shire. It serves 8,438 consumers.

Bendigo Branch.—This branch, which administers the local tramway system, includes the area formerly served by the Electric Supply Company of Victoria Ltd. Its electricity supply area now embraces the City of Bendigo, the Borough of Eaglehawk, and portion of the Shires of Strathfieldsaye, Huntly and Marong. It serves 7,271 consumers.

Castlemaine Branch.—This has its headquarters at Castlemaine, and consists of 29 towns and localities in an area of 240 square miles. It serves 4,831 consumers.

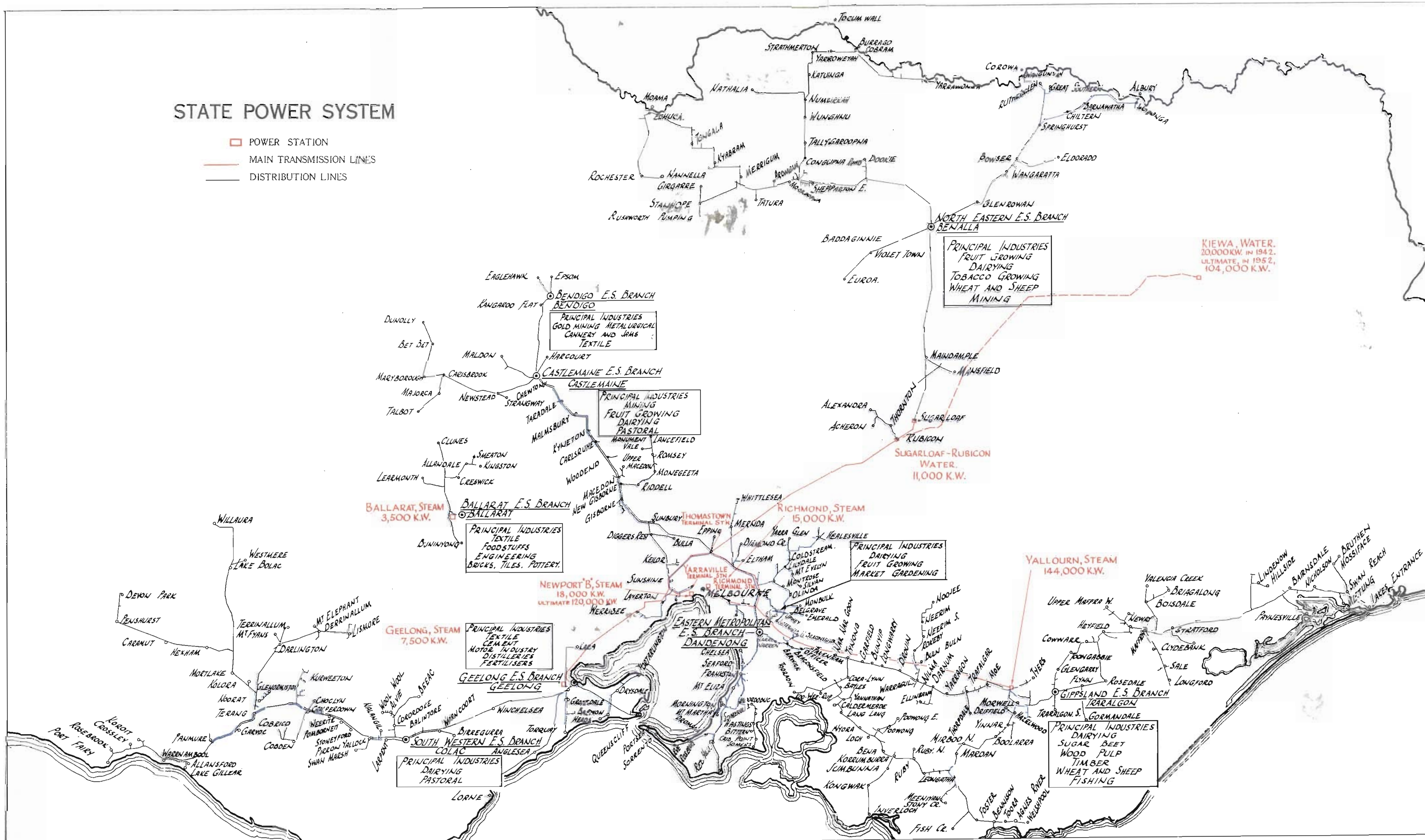
Eastern Metropolitan Branch.—This serves 95 centres in an area of 353 square miles, extending from Whittlesea and Healesville, on the north, to the seaside resorts along Port Phillip Bay, as far as Portsea, on the south. It serves 13,038 consumers.

Geelong Branch.—This branch, which includes the Geelong area formerly served by the Melbourne Electric Supply Company Ltd., and which administers the local tramway system, has Geelong and suburbs as the principal centres of supply. It is bounded by Lara on the north, Torquay on the south, and Queenscliff and Portarlington on the extreme east—in all, an area of 92 square miles. It serves 12,633 consumers.

Gippsland Branch.—This serves 105 centres in an area of 677 square miles, and has its headquarters at Traralgon. It serves 10,864 consumers.

North-Eastern Branch.—This serves 50 centres in an area of 430 square miles, and has its headquarters at Benalla. It serves 10,426 consumers. From this branch, bulk supply is made available to the New South Wales Municipal Councils of Albury, Corowa, Moama, Coreen and Berrigan.

South-Western Branch.—This serves 48 centres in an area of 318 square miles, and has its headquarters at Colac. It serves 7,349 consumers.



STATE POWER SYSTEM
POWER STATION
MAIN TRANSMISSION LINES
DISTRIBUTION LINES
KIEWA, WATER. 20,000 K.W. IN 1942. ULTIMATE, IN 1952, 104,000 K.W.
NORTH EASTERN E.S. BRANCH
BENALLA
PRINCIPAL INDUSTRIES
FRUIT GROWING
DAIRYING
TOBACCO GROWING
WHEAT AND SHEEP
MINING
BENDIGO E.S. BRANCH
BENDIGO
PRINCIPAL INDUSTRIES
GOLD MINING METALURGICAL
CANNERY AND JAMS
TEXTILE
CASTLEMAINE E.S. BRANCH
CASTLEMAINE
PRINCIPAL INDUSTRIES
MINING
FRUIT GROWING
DAIRYING
PASTORAL
SUGARLOAF-RUBICON WATER. 11,000 K.W.
BALLARAT, STEAM 3,500 K.W.
BALLARAT E.S. BRANCH
BALLARAT
PRINCIPAL INDUSTRIES
TEXTILE
FOODSTUFFS
ENGINEERING
BRICKS, TILES, POTTERY.
THOMASTOWN TERMINAL STN.
RICHMOND, STEAM 15,000 K.W.
PRINCIPAL INDUSTRIES
DAIRYING
FRUIT GROWING
MARKET GARDENING
YARRAVILLE TERMINAL STN.
RICHMOND TERMINAL STN.
MELBOURNE
NEWPORT "B", STEAM 18,000 K.W. ULTIMATE 120,000 K.W.
YALLOURN, STEAM 144,000 K.W.
GEELONG, STEAM 7,500 K.W.
PRINCIPAL INDUSTRIES
TEXTILE
CEMENT
MOTOR INDUSTRY
DISTILLERIES
FERTILISERS
GEELONG E.S. BRANCH
GEELONG
EASTERN METROPOLITAN E.S. BRANCH
DANDENONG
SOUTH WESTERN E.S. BRANCH
COLAC
PRINCIPAL INDUSTRIES
DAIRYING
PASTORAL
GIPPSLAND E.S. BRANCH
TRARALGON
PRINCIPAL INDUSTRIES
DAIRYING
SUGAR BEET
WOOD PULP
TIMBER
WHEAT AND SHEEP
FISHING
TOCUMWAL
BURRAGA
COBRAM
STRATHMERTON
YARROWEYAH
KATUNGA
NATHALIA
NUMURKAH
WUNGHNU
TALLYGAROOPNA
CONGUPNA ROAD
DOOKIE
MOAMA
ECHUCA
TONGALA
KYABRAM
MERRIGUM
ROCHESTER
NANNELLA
GIRGARRE
STANHOPE
RUSHWORTH PUMPING
TATURA
SHEPPARTON E.
COROWA
YARRAWONGA
RUTHERGLEN
ALBURY
BARNAWATHA
WODONGA
CHILTERN
SPRINGHURST
BOWSER
ELDORADO
WANGARATTA
GLENROWAN
BADDAGINNIE
VIOLET TOWN
EUROA
MAINDAMPLE
MANSFIELD
ALEXANDRA
ACHERON
THORNTON
SUGAR LOAF
RUBICON
EAGLEHAWK
EPSOM
KANGAROO FLAT
DUNOLLY
BET BET
MALDON
HARCOURT
MARYBOROUGH
CARISBROOK
MAJORCA
NEWSTEAD
CHEWTON
STRANGWAY
TALBOT
TARADALE
MALMSBURY
KYNETON
CARLSRUHE
WOODEND
MACEDON
NEW GISBORNE
GISBORNE
LANCEFIELD
ROMSEY
MONEGEETA
RIDDELL
UPPER MACEDON
MONUMENT VALE
CLUNES
ALLANDALE
SMEATON
KINGSTON
LEARMONTH
CRESWICK
BUNINYONG
SUNBURY
WHITTLESEA
MERNDA
EPPING
DIGGERS REST
BULLA
KEILOR
SUNSHINE
LAVERTON
WERRIBEE
YARRA GLEN
HEALESVILLE
COLDSTREAM
ELTHAM
MONBULK
BELGRAVE
EMERALD
CHELSEA
SEAFORD
FRANKSTON
MT ELIZA
MORNINGTON
DROMANA
HASTINGS
SOMERS
PORTSEA
SORRENTO
QUEENSCLIFF
DRYSDALE
TORQUAY
ANGLESEA
LORNE
WINCHELSEA
BIRREGURRA
WARNCOORT
BALINTORE
CORORKE
ALVIE
DEEAC
WOOL WOOL
LARPENT
NALANGIL
WILLAURA
WESTMERE
LAKE BOLAC
DEVON PARK
PENSHURST
CARAMUT
HEXHAM
TERRINALLUM
MT FYANS
DARLINGTON
MT ELEPHANT
DERRINALLUM
LISMORE
MORTLAKE
KOLORA
NOORAT
TERANG
GLENORMISTON
KURWEETON
GARVOC
COBRICO
COBDEN
PANMURE
WARRNAMBOOL
ALLANSFORD
LAKE GILLEAR
KOROIT
CROSSLEY
ROSEBROOK
PORT FAIRY
STONEYFORD
PIRRON YALLOCK
SWAN MARSH
WEERITE
POMBORNEIT
NOOJEE
NEERIM
NEERIM S.
ROKEBY
BUNYIP
GARFIELD
TYNONG
LONGWARRY
DROUIN
BUNN BUNN
DARNUM
YARRAGON
TRAFALGAR
MOE
TYERS
MORWELL
DRIFFIELD
HAZELWOOD
YINNAR
BOOLARRA
MIRBOO N.
MARDAN
WARRAGUL
ELLINBANK
CORA-LYNN
YANNATHAN
CALDERMEADE
LANG LANG
POOWONG E.
POOWONG
NYORA
LOCH
BENA
KORRUMBURRA
JUMBUNNA
KONGWAK
RUBY
LEONGATHA
INVERLOCH
MEENIYAN
STONY CR.
FISH CR.
FOSTER
BENNISON
TOORA
AGNES RIVER
WELSHPOOL
TRARALGON S.
GORMANDALE
ROSEDALE
FLYNN
GLENGARRY
TOONGABBIE
COWWARR
HEYFIELD
UPPER MAFFRA W.
NEWRY
MAFFRA
VALENCIA CREEK
BRIAGALONG
BOISDALE
STRATFORD
CLYDEBANK
SALE
LONGFORD
PAYNESVILLE
LINDENOW
HILLSIDE
BAIRNSDALE
NICHOLSON
BRUTHEN
NOSSIFACE
SWAN REACH
METUNG
LAKES ENTRANCE

PROMOTION OF BUSINESS.

Domestic.—The increase for the year of 20 kWh. per consumer per annum in the average domestic consumption of electricity in the Commission's areas represents a continuation of the steady progress which has been recorded previously. This average consumption is comparable with that in other parts of Australia, but is not wholly satisfactory when regard is had to the favorable nature of the Commission's tariffs, and the more liberal use of electricity in the home that exists in progressive countries overseas.

Commercial.—With an increase of 9½ per cent. for the year, the steady progress in the use of electricity for commercial purposes was maintained. The increase was due largely to a more general use of appliances and of modern methods of shop and show window lighting.

Industrial.—The net increase in electric motors connected was 14,250 horse-power, including installations in new premises, extensions to existing plants and conversions from other forms of power. This increment is the largest recorded for some time, and includes a very high proportion of the new business available in the Commission's areas.

Good progress has been made in the application of electricity to industrial heating processes, and many installations covering a wide variety of equipment are giving satisfactory service. The new load connected and the larger volume of potential new business reflect the growing appreciation by manufacturers of the undoubted advantages of electricity for heating purposes.

Mining.—At the end of the year, 61 consumers were taking supply for mining purposes; they used 8·6 million kWh. A decrease of 35·5 per cent. on last year's consumption arose from reduced requirements on the Bendigo fields and the temporary suspension of operations by a large consumer in the North-Eastern Branch. New consumers and extensions of plant by existing consumers during the current year are expected to more than make good this decrease.

Rural.—Research in connexion with the development of equipment and processes that will facilitate the utilization of electricity on the farm was continued with satisfactory results. It included small pumping plants, steam sterilization equipment, various phases of poultry farming, portable electric motors and electro-horticulture. Research was also extended to orchard spraying, irrigation of pastures, &c., and silage cutting and storing.

In April, the Commission commenced the publication of a quarterly bulletin entitled "Victorian Rural Electrification News" for distribution among present and prospective farm consumers and rural interests generally. The journal deals with new developments and supplies semi-technical information in regard to rural electrification.

Exhibitions and Demonstrations.—An "Electricity on the Farm" exhibition was held in the Electricity Supply building from the 21st September to the 6th October, 1937. The various displays, which were arranged with the co-operation of a number of farm machinery manufacturers and agents, demonstrated numerous practical and economical applications of electricity to farming.

The practice of demonstrating electrical methods to country consumers by lectures and displays at agricultural shows was continued during the year.

To develop further the application of electricity to horticultural pursuits, an electrically-heated glass-house, garden frame and an illuminated fountain were exhibited during the Annual Garden Week display at Wirth's Olympia, from the 5th to the 9th April. The exhibit was inspected by approximately 22,000 persons.

Among other occasions for which the Commission prepared special displays were the "Modern World" Exhibition held at Earl's Court, St. Kilda, and the Geelong Centenary Manufacturers' Exhibition.

Educational Films.—The infantile paralysis epidemic affected the Commission's educational programme, embracing lectures, demonstrations and the presentation of the Commission's sound films in schools. Although it was possible to proceed during only one-third of the year, the activity continued to show satisfactory and beneficial results. Most of the schools in the metropolitan area and a large proportion of country schools have been visited. In addition, screenings were arranged for numerous organizations, and evidence of continued public interest was afforded by the fact that by the end of the year a total of over 117,000 people had viewed the films.

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

Branch and Town.	Acquisition Date.	After Acquisition. Year 1937-38.		Prior to Acquisition.			Average Revenue per kWh. Sold.	
		kWh. Sold.	Revenue.	kWh. Sold.	Revenue.	For Year Ended.	1937-38.	Prior to Acquisition.
			£		£		*d.*	*d.*
METROPOLITAN BRANCH.								
Werribee	10.4.24	887,227	8,311	61,190	2,575	30.9.23	2·25	10·10
BENDIGO BRANCH.								
Eaglehawk	1.2.36	239,421	5,104	198,580	4,472	30.9.35	5·12	5·40
CASTLEMAINE BRANCH.								
Castlemaine	31.12.29	618,900	9,315	175,904	7,130	31.12.28	3·61	9·73
Gisborne	1.10.28	97,163	1,457	17,000	1,074	30.9.27	3·60	15·16
Kyneton	1.10.29	435,451	6,762	143,340	5,433	30.9.27	3·73	9·09
Sunbury	1.5.26	274,809	3,834	58,501	2,490	30.9.24	3·35	10·21
Woodend	1.8.29	176,441	2,938	51,000	2,555	30.9.27	4·00	12·02
EASTERN METROPOLITAN BRANCH.								
Dandenong	1.10.23	1,513,320	15,822	77,300	4,006	30.9.23	2·51	12·44
Frankston	21.2.28	1,789,384	17,235	293,000	8,859	30.9.27	2·31	7·25
Healesville	1.4.33	415,797	6,641	108,910	4,196	30.9.31	3·83	9·24
Lilydale	1.4.25	855,178	6,250	39,950	1,816	30.9.24	1·75	10·91
Mornington	1.8.30	581,898	8,043	120,000	4,634	30.9.28	3·32	9·26
Ringwood and Croydon ..	1.4.25	1,008,371	11,579	181,600	4,393	30.9.24	2·76	5·81
Sorrento and Portsea ..	1.10.27	638,240	9,464	47,500*	2,440	30.9.27	3·56	12·33*
GIPPSLAND BRANCH.								
Bairnsdale	1.4.27	1,075,478	12,149	100,272	2,948	30.6.23	2·71	7·06
Drouin	3.10.24	448,703	3,556	19,500	743	30.9.21	1·90	9·15
Garfield	1.8.29	38,425	568	8,864	465	30.12.27	3·55	12·59
Inverloch	1.10.34	54,388	931	4,000*	200	30.6.34	4·11	12·00*
Koo-wee-rup	1.8.35	225,825	3,492	17,481	686	9.8.33	3·71	9·42
Korumburra	1.12.24	699,215	7,171	85,000	3,427	30.9.23	2·46	9·68
Leongatha	15.2.24	495,707	5,839	50,640	2,012	30.6.23	2·83	9·53
Maffra	1.9.24	1,226,984	10,244	62,000	2,651	30.9.22	2·00	10·26
Morwell	1.4.26	622,955	6,330	52,062	1,772	30.9.25	2·44	8·17
Neerim South-Noojee ..	15.1.35	346,471	3,179	59,550	1,193	30.6.33	2·20	4·81
Sale	1.7.24	1,411,071	14,759	114,155	3,687	30.6.24	2·51	7 75
Warragul	1.12.30	701,823	9,140	150,000*	4,830	30.11.30	3·13	7·73*
NORTH-EASTERN BRANCH.								
Alexandra	11.4.27	238,438	3,117	64,000*	1,875	30.9.26	3·14	7·00*
Benalla	1.5.26	934,785	12,147	70,800	3,373	30.9.24	3·12	11·43
Cobram	1.10.28	109,259	2,394	19,500	1,416	30.9.27	5·26	17·43
Euroa	20.3.28	182,081	3,900	46,618	1,782	30.9.25	5·14	9·17
Kyabram	1.12.26	596,994	6,333	92,312	3,462	4.7.25	2·55	9·00
Mansfield	1.6.28	145,948	2,521	25,000	1,341	30.9.27	4·15	12·88
Mooroopna	1.10.26	336,479	3,488	40,000	1,457	30.9.25	2·49	8·74
Nathalia and Numurkah ..	1.10.31	588,739	7,203	96,763	3,619	30.9.31	2·94	8·97
Rochester	1.8.35	259,634	3,705	191,310	4,223	31.7.35	3·43	5·30
Rutherglen	15.10.26	1,703,296	8,295	28,392	1,377	30.9.24	1·17	11·64
Shepparton	1.1.25	2,518,969	23,210	163,400	4,625	30.6.24	2·21	6·79
Tatura	1.11.26	213,254	2,876	40,000	1,710	30.6.25	3·24	10·26
Violet Town	1.3.36	50,695	1,120	14,650	1,160	30.9.35	5·30	19·0*
Wahgunyah	1.2.26	42,731	687	7,233	263	30.9.22	3·86	8·73
Wangaratta	12.3.27	4,750,494	25,927	151,600	4,788	30.9.25	1·31	7·58
Wodonga	1.11.33	192,943	3,899	64,500*	3,000*	30.6.33	4·85	11·16*
Yarrawonga	1.8.25	944,414	7,928	47,000	2,149	30.9.24	2·01	10·97
SOUTH-WESTERN BRANCH.								
Camperdown	1.1.24	730,687	8,332	97,664	4,122	30.9.23	2·74	10·13
Colac	1.9.23	1,271,896	16,370	99,000	2,673	30.9.22	3·09	6·48
Koroit	1.12.28	140,618	2,011	50,000	2,319	30.9.28	3·43	11·13
Lorne	15.12.36	222,567	3,359	24,000	1,658	30.9.36	3·62	16·58
Mortlake	16.5.24	165,837	2,285	35,306	1,626	30.9.22	3·31	11·05
Terang	4.3.24	378,624	5,722	78,839	3,439	30.9.23	3·63	10·47
Total	..	33,598,027	346,942	3,845,186	138,144	..	2·48	8·62

* Approximate only.

COMPARISON OF TOTAL FIGURES.

	kWh. Sold.	Revenue £	Average Revenue per kWh. *d.*
After acquisition	33,598,027	346,942	2·48
Prior to acquisition	3,845,186	138,144	8·62
Increase in sales and revenue ..	774%	151%	Decrease 6·14 = 71%

TARIFF REDUCTIONS.

The table given below shows that the average selling price per kilowatt-hour in the areas served by the Commission is now 39 per cent. lower than it was in 1924–25. For an increase in consumption of 252 per cent., revenues have increased by only 113 per cent. This 39 per cent. represents £1,880,000 for 1937–38, if the rates of 1924–25 be applied to last year's consumption. To this amount, direct reductions in tariffs have contributed £347,000. The balance is due to automatic price reductions which, as consumption increases, arise under the form of tariffs used by the Commission. The following is the comparison between the returns for 1924–25 and 1937–38 :—

Year.	Total Retail Sales in kWh.	Revenue.	Average Selling Price per kWh.
		£	
1924–25	124,536,000	1,358,000	2·62d.
1937–38	438,173,000	2,896,000	1·59d.
	Increase 313,637,000 = 252%	Increase 1,538,000 = 113%	Decrease 1·03d. = 39%

In the domestic class specifically, the reduction in the average selling price per kilowatt-hour is 53 per cent. In this case, the comparison is made with the year 1925–26, this being the first year in which the consumptions of the various consumer classes were recorded separately :—

DOMESTIC CLASS.

Year.	Total Retail Sales in kWh.	Revenue.	Average Selling Price per kWh.
		£	
1925–26	26,583,000	600,000	5·42d.
1937–38	110,597,000	1,179,000	2·56d.
	Increase 84,014,000= 316%	Increase 579,000 = 96%	Decrease 2·86d. = 53%

DIRECT REDUCTIONS IN SCHEDULE CHARGES.

During the year, direct reductions were made in tariffs corresponding to a total saving to consumers of approximately £55,000 per annum when based on the consumption at the time the reductions became effective. This figure includes the reductions which were introduced with effect from the 1st July, 1937, as referred to in the Eighteenth Annual Report.

A further illustration of the manner in which the Commission's tariffs operate is afforded by the return included in this section. This shows the great extent to which country undertakings acquired by the Commission have benefited and developed as part of the State system.

The nature of the reductions and the dates on which they became effective are as follow :—

All Branches :—

(*a*) Abolition, in the case of standard commercial and industrial tariffs, of meter rental, other than for two-rate meters. (Introduced 1st July, 1937.)

(*b*) Extension of the discount of 5 per cent. applicable to high-tension supplies taken under standard commercial and industrial tariffs to embrace that part of the bill due to electricity consumed during prescribed hours. (Introduced 1st October, 1937.)

(*c*) Water heating.—The basis of charge for electricity consumed by water heaters of the continuous type was altered, the effect being to substantially reduce the charge to domestic, industrial and commercial consumers. (Introduced 1st October, 1937.)

Metropolitan Branch :—

(*a*) Reduction of the rate for first block of commercial and industrial lighting tariff "A" and all purposes tariff "D" from 4½d. to 4d. per kWh., together with a reduction in the size of the first block of both tariffs and reduction in the minimum consumption provision under tariff "D". (Introduced 1st October, 1937.)

Ballarat Branch :—

(*a*) Alteration to commercial and industrial power and heating block tariff "C" and introduction of all purposes tariff in block form. (Introduced 1st July, 1937.)

(*b*) Reduction to commercial and industrial consumers of prescribed hour rate under Option II. of tariff "O" to 0·35d. per kWh. and introduction of standard extra-metropolitan prescribed hour water heating tariff of 0·5d. per kWh. (Introduced 1st July, 1937.)

Bendigo Branch :—

(*a*) Alteration to commercial and industrial power and heating block tariff "C" and introduction of all purposes tariff in block form. (Introduced 1st July, 1937.)

Country Branches :—

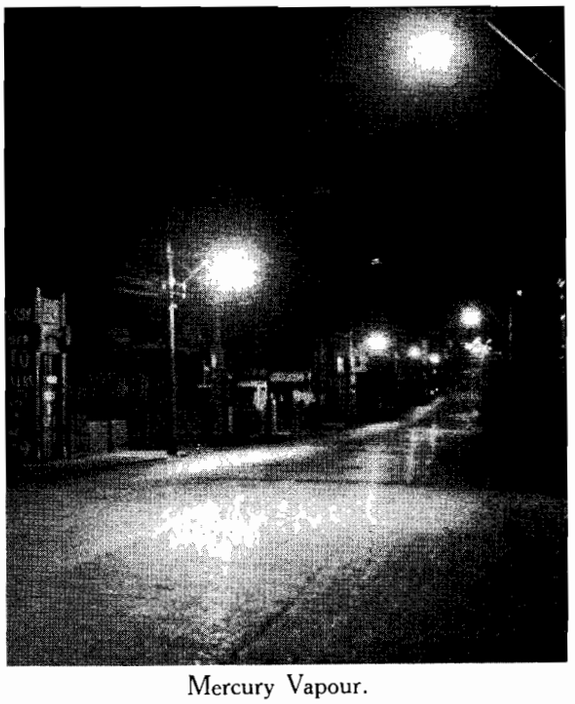
(*a*) Withdrawal of commercial and industrial power and heating two-part tariff and power flat tariff and introduction of power and heating and all purposes tariff in block form. (Introduced 1st July, 1937.)

(*b*) The following country centres were transferred to a lower scale of standard schedule tariffs as a result of increased development :—Alexandra, Belgrave, Upwey, Tecoma, Drouin, Greensborough, Briar Hill, Montmorency, Lower and Upper Ferntree Gully, Mansfield, Moe, Mornington, Mortlake, Rosebud, Sassafras, Olinda, Sorrento, Portsea, Springvale, Sunbury, Trafalgar, Warragul, Woodend. (Introduced 1st October, 1937.)

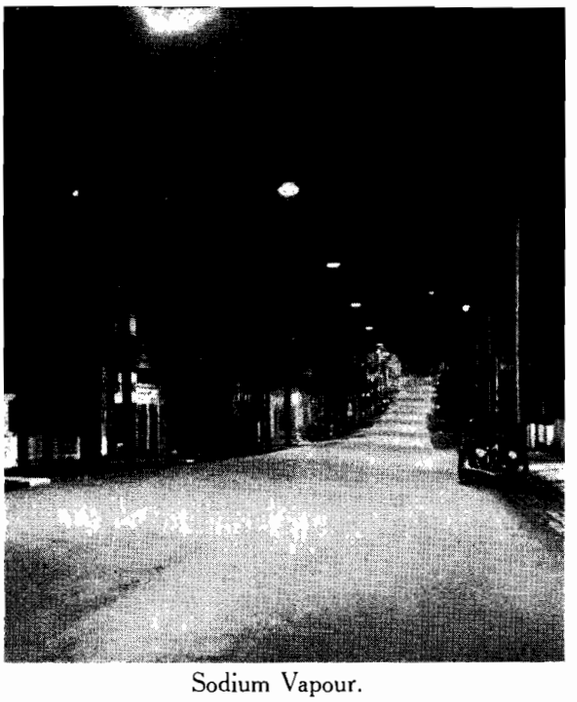
DEMONSTRATION OF MODERN STREET LIGHTING.

The vastly increased use of streets at night, during the last two decades has produced a revolutionary change in ideas throughout the world of what constitutes a satisfactory street lighting service. In step with the modern trend, the Standards Association of Australia has devoted considerable attention to the matter and produced a minimum street lighting

Street Lighting Demonstration, Burwood-road, Hawthorn, Melbourne.



Mercury Vapour.



Sodium Vapour.

specification, based on a code which classifies the lighting requirements of streets according to volume of traffic. To afford municipal authorities and the public generally the opportunity to study modern gaseous discharge lighting, two of the classifications prepared by the Standards Association have been demonstrated in Burwood-road, Hawthorn, between Power-street and Glenferrie-road, since the 22nd December, 1937. These classifications are—Class "A," 100 lumens per linear foot, as shown by a mercury (blue) vapour installation, and Class "B," 60 to 75 lumens per linear foot, as shown by a sodium (yellow) installation. The installations are designed to satisfy the following requirements :—(1) High intensities with a minimum of

glare; (2) greater measure of light control, in order to produce a more even lighting of road surfaces by making the light beams continuous, thus eliminating dark spots; (3) increased efficiency in light sources; (4) improvement in the design of lighting units.

The demonstration in Burwood-road displays two systems of lighting. The first consists of 150-watt sodium lamps, suspended over the centre of the roadway, and spaced 120 feet apart. The second consists of 400-watt mercury vapour lamps, mounted on brackets, and spaced 180 feet apart on alternate sides of the road.

System ordinarily in use.

Sodium and mercury lighting are displayed on alternate nights. The photographs reproduced illustrate both systems of lighting, and also afford a comparison with the method still in general use.

The demonstration is creating much interest among authorities directly or indirectly concerned with efficient and sufficient street lighting, as well as among the public generally.

BRIQUETTE DISTRIBUTION.

Sales	**400,647**	**tons**
Revenue	**£394,634**	
Expenditure	**£393,133**	
Profit	**£1,501**	

All charges, including interest and depreciation, are covered in the expenditure.

The net profit compares with a net loss of £6,470 in 1936–37.

Trading conditions at the same level of prices as last year were steady in both the industrial and domestic markets, and the total sales showed an increase of 26,614 tons compared with 1936–37.

TRAMWAYS.

Revenue from the tramways at Ballarat, Bendigo, and Geelong totalled £75,568—a decrease of £573. Expenditure increased by £30,706 to £133,088.

Losses on the tramway undertakings were as follow:—Ballarat, £19,281; Bendigo, £16,200; Geelong, £22,039; total £57,520, compared with £26,241 last year. Capital charges on the reconstruction of the Ballarat and Bendigo systems began to operate on the 1st July, 1937. Improved services generally and wages increases also added to the year's expenditure, and this was accompanied by decreased patronage of the tramways in Bendigo and Geelong, due to the greater use of private motor vehicles.

The results of the year's operations are extremely disappointing to the Commission. This is particularly so in Ballarat and Bendigo, for it was hoped that an appreciable increase in public patronage would follow the comprehensive reconstruction of tracks and overhead gear, especially as this programme was associated with improvements to the rolling stock, and revised fares. The capital cost of reconstructing the tramways in both cities was £197,500.

As mentioned in previous Annual Reports, losses on tramways are a charge on electricity supply in each of the three cities concerned, and the extent to which reductions in electricity tariffs are possible in those cities depends to a very large extent on the patronage of the tramways by the people for whose benefit these systems are being maintained.

PART III.—DESIGN, CONSTRUCTION, AND OPERATION.

COAL SUPPLY.

YALLOURN OPEN CUT.

Developmental.—To enable the overburden to be transported to the worked-out area of the cut an adhesion railway on a grade of 1 in 40 is being constructed on the northern side of the open cut from the surface level to the lower coal working level. This railway will provide also an emergency outlet for coal transport from the lower coal working level, and thus render unnecessary the retention of No. 1 ropeway.

As a consequence of the decision not to purchase a third coal dredger, it will not be necessary at the present time to open out an additional coal face, but changes in the pivoting points of the two existing coal faces to the eastern end of the open cut will be made to conform to the long range programme for the development of the cut and for the most economical utilization of existing plant and coal faces. The re-arrangement of coal transport tracks to provide for the re-adjustment of pivoting points is proceeding. This work includes a bridge at a point at which the coal railway and the overburden inclined railway cross each other at the eastern end of the open cut.

Overburden Removal.—The quantity of overburden removed during the year was 1,188,900 cubic yards (previous year, 1,364,700 cubic yards). Excavation was carried out on the whole length of the south face of the open cut. At the end of the year the area of the cut had been increased from 250 acres to 275 acres at grass level, and from 227 acres to 250 acres at the surface of the coal.

Coal Winning.—The coal won during the year amounted to 3,597,048 tons (previous year, 3,099,784 tons). The total coal excavated from the cut since the beginning of operations is 27,678,063 tons. Of the coal won during the year, 1,993,371 tons went to the power station, and 1,603,677 tons to the briquette factory.

Boring.—During the year, 25 bores at 600-feet intervals were put down in the area between the Prince's Highway and the main Gippsland railway line. These proved an average depth of 183·8 feet of coal, covered by an average depth of 44·8 feet of overburden.

POWER PRODUCTION.

The Commission's main sources of generation are combined in a comprehensive system, viz., the power stations at Yallourn, Sugarloaf–Rubicon, Newport, Richmond and Geelong, the terminal stations at Richmond, Yarraville, Thomastown and Rubicon "A," the transmission lines connecting the generating stations and the terminal stations, and the overhead lines and underground cables which connect the terminal stations with the main metropolitan sub-stations and inter-connect the main sub-stations themselves. From this system, electricity is transmitted to the Commission's various Electricity Supply Branches, and also to the Melbourne municipalities which purchase in bulk.

The Ballarat power station is operated independently of the main inter-connected system, and supplies the requirements of the Ballarat Branch and adjacent centres.

The power stations are as follow:—

	Effective Capacity.
Yallourn	***144,000 kW.**
Sugarloaf–Rubicon hydro-electric group of five	**11,500 kW.**
Newport "B"	**18,000 kW.**
Richmond	**15,000 kW.**
Geelong	**7,500 kW.**
Total	**196,000 kW.**

* This includes 8,000 kW. from the Briquette Factory and takes into account the completion of the station to its full installed capacity of 175,000 kW. before the end of 1938.

The effective capacity of Ballarat power station is 3,500 kW.

YALLOURN POWER STATION.

	1937–38.	1936–37.
Maximum load during year	**132,000 kW.**	113,000 kW.
Generated during year	**597,078,400 kWh.**	481,039,800 kWh.
Received from Briquette Factory	**57,760,400 kWh.**	50,159,500 kWh.
Total	**654,838,800 kWh.**	531,199,300 kWh.

Following upon the installation of No. 3 main transformer last year, good progress was made with the regrouping of the switching layout of machines and auxiliaries in the Yallourn "A" (original) power station.

In the Yallourn "B" (extended) power station the installation of the second 51,000 kVa. 11–132 kV. transformer, as well as station auxiliary transformers and switchgear for Nos. 9 and 10 generators, brought the electrical equipment almost to completion.

Work was commenced on the installation of a third 3,000 kVa., 11–22 kV. transformer for supply to Gippsland, together with re-arrangement of the switchgear.

SUGARLOAF–RUBICON HYDRO GROUP.

	1937–38.	1936–37.
Maximum load during year	**25,500 kW.**	25,490 kW.
Generated during year	**85,633,100 kWh.**	141,411,600 kWh.

The considerable reduction in output was due to the exceptionally dry year.

All of the five stations (Sugarloaf, Rubicon, Lower Rubicon, Royston and Rubicon Falls) operated satisfactorily.

NEWPORT "B" POWER STATION.

	1937–38.	1936–37.
Maximum load during year	**18,600 kW.**	19,000 kW.
Generated during year	**27,144,342 kWh.**	27,224,775 kWh.

The station operated satisfactorily during the year.

Good progress was made on the erection of the second boiler house. The structure for the first boiler was completed and drums and tubes delivered to the site. A tender was accepted for the supply of the 30,000 kW. turbo-generator, which is to be in service prior to the winter of 1939.

In regard to the switching of the generators to be installed under the major extension proposals, it was decided to associate each generator directly with a main 22–66 kV. transformer bank, without the intervention of switchgear on the low tension side, but with the provision of a 35,000 kVa., 22–66 kV. transformer to connect the existing station with the new extensions.

RICHMOND POWER STATION.

	1937–38.	1936–37.
Maximum load during year	**15,300 kW.**	15,400 kW.
Generated during year	**24,690,000 kWh.**	25,300,000 kWh.

This station operated satisfactorily during the year.

GEELONG POWER STATION.

—	1937-38.	1936-37.
Maximum load during year	**8,620 kW.**	7,930 kW.
Generated during year	**34,402,300 kWh.**	32,107,908 kWh.

This station, which operated satisfactorily, is now connected with the main transmission system by a 66,000 volt line from the Yarraville terminal station. For the time being, this line is being operated at 22,000 volts.

BALLARAT POWER STATION.

—	1937-38.	1936-37.
Maximum load during year	**2,507 kW.**	2,190 kWh.
Generated during year	**8,276,700 kWh.**	7,629,115 kWh.

This station operated satisfactorily.

MAIN TRANSMISSION AND TERMINAL TRANSFORMATION.

The second circuit on the Yallourn–Richmond 132,000 volt transmission line was brought into service early in the year.

In connexion with the Kiewa scheme and the Newport extensions, it will be necessary when electricity becomes available from those sources to provide for a section of the metropolitan load to be switched directly to such supplies. This will involve a re-arrangement of the metropolitan transmission system, and already the first step in this direction has had to be taken, because of the growing requirements of the northern suburbs. Kiewa electricity will be delivered to a new terminal station at Brunswick, connected by 66 kV. feeders with the Thomastown and Richmond Terminal Stations and the Newport Power Station; but in the preliminary stages transmission to Brunswick will be via the Rubicon "A"—Thomastown lines to Melbourne. Pending the erection of that station, however, it was necessary to build a temporary switching station at the site in time for the winter load of 1938. Supply was given to this temporary station by diversion of the Thomastown Terminal Station—sub-station "B" transmission circuits, and extension to the station of the Richmond Terminal Station—North Fitzroy sub-station lines. The installation of the 66 kV. switchgear and 66–22 kV. transformers at the Brunswick Terminal Station site was commenced, with a view of completion early in 1939, when the Newport–Brunswick and the Thomastown Terminal Station–Brunswick 66 kV. lines will be in service.

The third main 120–22 kV. transformer bank was installed at Richmond Terminal Station, thus bringing the normal capacity of this station to 63,000 kVa. Preliminary designs were prepared for the installation of the 22–66 kV. transformers which will be required at Richmond Terminal Station to complete the first step in the inter-connexion of that station with the Brunswick Terminal Station at 66 kV.

To meet the growing requirements in the Geelong area, preparations were made to replace the feeder and generator switchgear in the Geelong Power Station with larger and more modern equipment, and at the Geelong Terminal Station work was started on the installation of 66–22–6·6 kV. transformer banks and associated switchgear, which are to be ready for service early in 1939, when a 66 kV. supply will be available from Newport.

Work was started on the erection of a new main transformer sub-station at Deepdene, while switchgear was re-arranged in several of the metropolitan sub-stations, in order to meet the increasing demands on the system.

Research.—In common with other activities, research work has greatly expanded, thus necessitating the provision of a larger and more modern laboratory at Yarraville. This was occupied early in 1938.

The equipment includes a high-tension Schering bridge, which is being used for the routine testing of all bushings on circuit-breakers and transformers. A cathode ray oscillograph is being obtained for use with an existing 1,000,000-volt impulse generator; this apparatus, which is unique in Australia, is capable of subjecting plant to at least an approximation of lightning conditions.

KIEWA HYDRO-ELECTRIC SCHEME.

The Kiewa development involves the construction of a road from Tawonga to the Bogong High Plains (25 miles). During the year arrangements were made with the Country Roads Board for the construction, at the Commission's cost, of the first section of the Upper Kiewa Valley Road (five miles) and a bridge over the West Kiewa at Tawonga. For the road work the Commission purchased three specially large caterpillar tractors and trail-builders, which are demonstrating their efficiency and economy in formation work in mountainous country.

ELECTRICITY SUPPLY.

All Branches.—The total of overhead low-tension reticulation lines is 3,265 miles, an increase of 296 miles for the year.

Details of high and extra high-tension overhead lines are included in Appendix No. 2. Additions during the year amounted to 483½ route miles, making the total 3,157 miles. The additional underground cable laid was 20 miles, making the total 650 miles.

Details of sub-stations are included in Appendix No. 3. Altogether, 368 sub-stations were erected during the year, increasing the transformer capacity by 23,408 kVA.

Included in the number of sub-stations erected during the year were 250 of rural type for supply to farms. In such supplies, much use was made of special long-span transmission line construction, with steel conductors, which has proved a very material factor in enabling farm extensions to be made at a minimum of cost.

Metropolitan Branch.—Supply was extended to Oakleigh South and Clarinda.

The installation of earth leakage circuit-breakers in existing installations was continued; 6,690 premises were inspected, and it was found necessary to provide 2,735 installations.

Conversion of single-phase to three-phase supply was undertaken in portions of St. Kilda, Malvern, Elwood, Black Rock, Cheltenham, South Yarra, and Prahran.

Ballarat Branch.—Important extensions to new areas included Creswick (16 miles), Clunes (10 miles), Learmonth (4½ miles), and Smeaton (8 miles).

Reconditioning of the distributing system was continued, and 39 installations were changed from direct-current to alternating-current supply; this involved converting 16 motors aggregating 69 horse-power. Since the undertaking was acquired on 1st July, 1934, 2,301 consumers and 147 motors (639 horse-power) have been changed to the standard alternating current supply; 590 consumers are still on direct current.

Additional public lighting and conversion of the remaining Ballarat City gas lamps involved the erection of 277 lamps (29·98 kilowatts), making the total in service 988, with a connected load of 96·25 kilowatts.

Bendigo Branch.—The local generating plant was closed down on the 31st December. The station was established at the corner of Williamson and Mollison Streets in 1888 as a battery charging station for the Sandhurst and Eaglehawk Tramway Company, but, on conversion of the trams to steam in 1892, was used to supply Bendigo with electric light and power. With additions, the plant was transferred to the present site in Hargreaves-street in 1901, and produced direct current for lighting, power, and traction. The most important addition to the plant since that year was the installation in 1923–24 of two 6–6·6 kV., 3 phase, A.C., 1,400 kW. turbo alternators. When in 1931 the Commission acquired the undertakings in Ballarat and Bendigo of the Electric Supply Company of Victoria Ltd., that company carried on the operation of the power stations and the administration of electricity supply and tramways in both cities for the Commission until 1934, when the latter assumed full control. In 1936, Bendigo was connected with the Commission's transmission system by means of a 66,000-volt line from Castlemaine. and one of the 1,400 kW. generators in the Bendigo Power Station was transferred to Ballarat, Pending disposal of the remainder of the Bendigo plant to various buyers, the station there was used for auxiliary purposes until 1937, when the whole of supply for Bendigo and Eaglehawk (where the local municipal plant had been closed down) was provided by the Commission's system. The removal of the plant from Bendigo enabled the complete re-organization of workshops, test-room and store at the Hargreaves-street site. The Eaglehawk plant was sold to country electrical undertakings.

Conversion of 208 consumers from direct current completed the change-over to the standard alternating current supply, except for eight consumers.

During the year reconstruction of the high-tension lines and sub-stations (including St. Aiden's Orphanage sub-station) was completed, and satisfactory progress was made on the low-tension reticulation reconstruction.

Falling off in mining activities caused the distribution sub-stations to be decreased by two, leaving 30 on supply at the end of the year, and the transformer capacity at 4,260 kVA., compared with 5,635 kVA. last year.

The Laurel-High and Myrtle Streets sub-stations were reconstructed and converted to 22 kV. operation. A new 50 kVA. sub-station was erected at Church-street, Eaglehawk, as well as a 100 kVA. (22 kV.) sub-station at Mitchell-street Railway, to replace the existing 6·6 kV. sub-station.

Castlemaine Branch.—Supply was made available to Maryborough on the 1st October, 1937, by means of a 22 kV. transmission line from Newstead. The line was extended from Maryborough to Dunolly, where supply was made available on the 1st April, 1938. *En route* from Newstead to Maryborough supply was given to Carisbrook and a number of farming groups, while at Bet Bet a short tee-off was erected to supply Maryborough Gold N.L. At Carisbrook, a line was constructed to supply Gold Dumps Pty. Ltd.

Voltage regulating equipment was installed on the Castlemaine feeder at Kyneton and Sunbury, and regulating equipment for this feeder will be installed at Sunshine.

Public lighting lamps increased from 699 (70·42 kilowatts) to 1,004 (93·133 kilowatts).

Eastern Metropolitan Branch.—Included in an increase of 107·475 cable miles of 22 kV. transmission line were 86·93 miles converted from 6·6 kV. at Frankston and Mt. Eliza and between Upwey and Emerald. Supply was extended to Bittern, Forest Road area (Ferntree Gully), Mernda and South Morang, Olinda South, Scoresby, Whittlesea and Yan Yean.

Seventy-three rural type sub-stations were erected and fifteen aerial and two ground type sub-stations were removed.

Geelong Branch.—Erection of a 22 kV. line from the Geelong terminal station along Thompson and Cowie Streets to the corner of Edol and Cowie Streets, marked the start of a four-years' construction programme to convert to 22 kV. the whole of the area north of Church-street. The new line will be operated at 6·6 kV. for the next two or three years.

A terminal sub-station is being erected at the Bulk Wheat Silos. In preparation for this, a 22 kV. feeder was completed by re-arming and re-insulating for 22 kV. operation the old feeder between the Geelong terminal station and Separation-street, and new lines were erected in Separation-street between the Ballarat railway and the Bulk Wheat terminal.

The position of high-tension lines in the vicinity of the Geelong terminal station and the West area sub-station is being altered to facilitate the erection of the two new tie feeders from the Geelong terminal station to the power station, as well as the new 6·6 kV. feeder which will supply the West area sub-station direct from the terminal station, instead of from the power station as at present.

Extensions of 6·6 kV. overhead conductors were made to sub-stations in new positions near St. Augustine's Orphanage, The Phosphate Co-operative Company (North Shore), Elizabeth-street (Newtown) Gheringhap-street (Geelong), Queenscliff, Point Lonsdale, Ocean Grove and Torquay.

Gippsland Branch.—Extensions of supply were made to Allardyce and Little Heyfield, Australian Paper Manufacturers' Pulp Mill (Maryvale), Caldermeade, Driffield, Fish Creek, Foster, Hazelwood North, Middle Creek (Yinnar East), Moe East, Neerim North, Paynesville, Thorpdale, Toora, Traralgon South, Upper Maffra West, Valencia Creek and numerous small localities.

North-Eastern Branch.—Extensions were made to Acheron, Euroa, Stanhope, Girgarre and in the fruit-growing areas of Ardmona and Shepparton East.

At Shepparton main sub-station, two 5,000 kVA., 66–22 kV., on load tap changing transformers and associated switchgear were put into service. Additional capacity was provided at the Wangaratta main sub-station. High-tension supply at Mansfield was converted from 6,600 to 22,000 volts.

South-Western Branch.—Of the increase in the length of 22 kV. line erected during the year, 83½ miles were for the Lismore–Derrinallum and Penshurst–Willaura extensions, while 53½ miles (operated at 6·6 kV.) were for smaller rural extensions. In addition, 14·46 route miles of the Mortlake feeder and spur lines were converted from 6·6 kV. to 22 kV. operation. Separate centres connected to supply were—Chocolyn, Crossley, Darlington, Derrinallum, Lismore, the Newminster Area, Panmure and Stoneyford.

BRIQUETTING AND RESEARCH.

To meet the increased demand for briquettes it was necessary to operate the factory seven days a week for about nine months of the year, and at times to force production above the normal daily output of about 1,200 tons. In addition, the factory operated on several statutory holidays, and the period of the annual shut-down for overhaul was considerably shortened. The output for the year was 416,545 tons, an increase of 51,850 tons on the previous year's production of 364,695 tons.

The respective outputs for household and industrial briquettes were 123,963 and 292,582 tons.

Electricity generated at the factory amounted to 78,564,240 kWh., of which 57,760,400 kWh. was delivered to Yallourn power station; the balance was used in the factory process.

Outputs of briquettes and electricity both exceeded those of any previous year, and were made possible by the absence of major breakdown of plant or interruption to operation.

Hitherto only the dust from the drier stacks has been settled by electrical precipitation. After the briquetting coal has left the driers in enclosed worm conveyors the difficulties of electrical precipitation of fine dust are greater than in the drier stacks, where the dust is mixed with warm air and large quantities of water vapour. Following on investigations in Germany in 1936, it was decided to instal electrical precipitation plant for treating conveyor coal-dust in factory "B," i.e., that portion of the factory which came into operation in 1931. This plant is now approaching completion; on the results obtained it will be decided whether more plant of a similar nature will be installed, thus completely equipping the factory for conveyor coal-dust recovery.

A recent development in the preparation of coal for briquetting in Germany has been the use of a special type of sieve, called a disc screen. A unit of this type is being obtained and installed for experimental purposes.

One of the most striking of recent developments in boiler furnace construction has been the rapidly spreading use in Europe of a method of combustion of coal intermediate in character between stoker and pulverized fuel furnaces. The device used for this new method is called the Krämer mill furnace. As it is important to know whether the advantages of a Krämer mill furnace can be realized with the high moisture Yallourn coal, No. 1 boiler on the 260-lb. range at the factory is being converted to this form of firing.

Research on the hydrogenation of Victorian brown coal and the nature of the various products thereby obtained has been continued for the Commission by the British Fuel Research Board at the fuel research station at East Greenwich. It is expected that this research work will be completed before the end of 1938.

YALLOURN TERRITORY.

Population.—The total population of the Yallourn territory at the 30th June, was 3,767, of whom 2,737 are resident in the town.

Housing.—During the year there were 56 new houses either erected or in course of erection, and on their completion, the total number of dwellings of all types will be brought to 665. Forty-six additional houses have been authorized.

Increased Accommodation for Boarders and Visitors.—To meet the pressing need of further accommodation for regular boarders and visitors, a new wing, consisting of sixteen rooms, was added to the Yallourn Hotel, and a new boarding-house, with accommodation for 50 persons, was under construction at the corner of Parkway and Office-place, at the close of the year.

Sewerage.—A scheme of sewerage for the town, prepared by the Commission's engineers, was adopted, after submission to and approval by the State Rivers and Water Supply Commission and the Public Health Department. The scheme, which is estimated to cost £78,000, provides for a total of 830 dwellings and a population, in the town, of about 3,400 by June, 1942, thus allowing for an addition of 170 houses within the four years' period from June, 1938. The treatment plant will provide in its initial stages for a population of about 3,500 persons, with the possibility of later extensions. Main sewers and reticulation will be of such a capacity that additional town areas may be added.

It is proposed to begin work on the scheme as soon as the necessary surveys and detailed plans have been completed. For some years funds have been accumulated to meet the capital cost of the scheme, and with appropriations during the period of construction the whole expense will have been provided. It is not intended to alter existing house rentals on account of this improvement in sanitation service.

Public Hall and Picture Theatre.—In keeping with the development of Yallourn as one of the main country centres in the State, and to meet a want that has been long felt by the local community, it was decided to erect a public hall and picture theatre in the Town Square, on land looking down Broadway, at the intersection of Office-place and Banksia-crescent. The building will have seating accommodation for 725 persons, and will be suitable for meetings and musical and dramatic performances. Applications for a three years' lease of the building, when erected, were invited by public tender, and an application was accepted.

School Facilities.—Since the present Technical School building was erected in 1936, the number of full and part-time students has increased from 366 to 546. Already, the new school is being seriously handicapped by lack of accommodation, and the pressing need of an extension was brought to the notice of the Education Department by the School Council.

Accommodation difficulties also exist in regard to primary and secondary education facilities. To relieve overcrowding, the Education Department is erecting another class-room at the Yallourn Primary School, and, as an adjunct to the Higher Elementary School, has leased a cottage formerly occupied by the Yallourn Branch of the Returned Sailors and Soldiers' Imperial League of Australia, the latter body being now installed in its new club-rooms. The Department also has decided to establish cookery classes for pupils from the Higher Elementary School at the building in Narracan-avenue, previously occupied by the Technical School.

Hospital and Medical Services.—The hospital and general medical services for the territory were maintained at their usual high level of efficiency. The services include a Health Centre in the Town. They are administered by the Yallourn Medical and Hospital Society, and are wholly financed by regular contributions from all employees. The daily number of occupied beds at the hospital increased from 24·78 in 1936–37, to 25·7 in 1937–38.

PART IV.—PUBLIC SAFETY AND OTHER REGULATORY RESPONSIBILITIES.

Electric Light and Power Act 1928.—During the year three new Orders in Council were approved by the Governor in Council, and granted to the following undertakers:—

Number.	Undertaker.	Area.	Tariff.			System of Supply.
			Light.	Power.	Minimum Charge per Month.	
232	Heidelberg City Council ..	The property of the Templestowe Brick Co. Pty. Ltd., Bulleen-road, Shire of Doncaster and Templestowe	*s. d.* 0 9·5 to 0 6	*d.* 5 to 0·9	*s. d.* ..	A.C. 230–400 volts
233	William Horsfield Emmett and Charles Hedley Buzza	Township of Stanhope and environs	1 4	9	7 6	D.C. 230 volts
234	The Gunbower Co-operative Butter Factory and Trading Co. Ltd.	Township of Gunbower and environs	1 3	6	5 0	D.C. 230 volts

Two Orders in Council were transferred to other undertakers:—

Number.	Area.	Previous Undertaker.	Present Undertaker.	Date of Transfer.	Period of Transfer.
166	Township of Cohuna	Federal Milk Pty. Ltd.	The Gunbower Co-operative Butter Factory and Trading Co. Ltd.	10.8.37	Until expiry of Order on 23.4.48
212	Township of Goroke	W. A. Bland ..	The Border Trading and Manufacturing Co. Pty. Ltd.	25.7.38	Until expiry of Order on 27.8.40

The Governor in Council approved the revocation of the four under-mentioned Orders in Council following transfer of the undertakings concerned to State ownership:—

Number.	Area.	Undertaker.	Date of Approval of Revocation.	Revocation to Date from—
113	Townships of Toora and Foster	Toora and Foster Electric Company Limited	13.4.38	1.5.38
176	The Borough of Maryborough ..	Maryborough Borough Council ..	19.7.37	1.10.37
206	Township of Dunolly ..	Bet Bet Shire Council	5.4.38	31.3.38
233	Township of Stanhope and environs	William Horsfield Emmett and Charles Hedley Buzza	4.7.38	14.6.38

At the close of the financial year, 96 Orders in Council under the Electric Light and Power Act for the supply of electricity remained in force. Of these, 62 were issued to municipal Councils (several of which operate under more than one Order), and 34 to companies or persons.

In the exercise of the Commission's functions under the above Act, thirty-two electrical undertakings were inspected and reported on during the year. 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.

Licensing of Electrical Mechanics.—Electrical mechanics' licences renewed and issued :—

Grade.	Electrical Mechanics' Licences Renewed for Year Ending 31st December, 1938.	New Electrical Mechanics' Licences Issued for Year Ending 31st December, 1938.	Number of Electrical Mechanics' Licences Cancelled During the Year.	Total Number of Electrical Mechanics' Licences in Force at 30th June, 1938.
"A"	1,711	48	2	1,757
"B1"	98	13	8	103
"B"	543	45	35	553
"C"	235	69	34	270

In addition, there were issued 340 permits to engage in electrical wiring work under certain conditions for periods not exceeding six months; 119 were in force at the close of the year.

Limited permits for periods not exceeding twelve months also are issued in respect of certain classes of electrical maintenance. At the close of the year 402 permits remained in force, including 22 issued to employees of electricity supply authorities to enable them to assist in the installation of earth leakage switches on consumers' premises.

Two licensing examinations, each including theory and practice, were conducted during the year. Due to the increased recognition of technical school examinations in electric wiring, the number of candidates has decreased. The Board of Examiners reported a very slight decrease in the percentage of passes.

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

Registration of Electrical Contractors.—The *State Electricity Commission Act* 1934 vests in the Commission certain duties and responsibilities in respect of the registration of electrical contractors.

After the Commission had heard appeals, 60 registrations were cancelled, for various reasons, during the year.

On the 30th June, 1938, 501 registrations in Class M (all classes of wiring work) were in force, and 5 in Class P (work limited to certain provincial districts where the maximum declared pressure of supply does not exceed 250 volts).

A conviction was recorded in the case of an unregistered person who had carried out work as an electrical contractor.

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. S. G. Hall, representing the interests of undertakers, and Mr. A. Stuart, representing the interests of the manufacturers in Victoria of electrical goods, expired during the year. Mr. S. G. Hall was re-appointed, and Mr. H. C. Condie was appointed vice Mr. A. Stuart, who did not seek re-appointment. The Commission records its appreciation of Mr. Stuart's work during the period of three and a half years that he was a member of the Board.

The articles brought within the scope of the Act, up to the 30th June, 1938, includes apparatus connectors, bread toasters, cord connectors, decorative lighting outfits, earth leakage circuit-breakers (class 1), flexible cords, grillers, hand lamps, irons (hand), jugs, kettles and saucepans, lampholder adaptors, plugs and sockets, plug socket adaptors, portable immersion heaters, radiators, razors, soldering irons, and wall switches.

Since the appointment of the Board, in December, 1934, 846 applications for approval have been received and 535 have been granted.

During the year, two convictions were recorded in respect of the sale of unapproved articles.

Installation Inspections.—Close association with statutory authorities was maintained to ensure uniform application of the Wiring Regulations, and materials continued to be tested to exclude any unsuitable for installation purposes. Luminous discharge signs, petrol service pumps and other classes of apparatus are inspected at factories prior to connexion in installations.

Convictions were recorded in seven cases for offences under the Wiring Regulations.

Considerable progress was made in the application of earth leakage circuit-breakers to the protection of installations. Australian-made leakage circuit-breakers are now available, and methods have been evolved for their use in the large majority of installations. Consequently, in December, 1937, the Wiring Regulations were amended to provide for the use of circuit-breakers in all new installations; prior to this, they were included only in new residential installations. A number of difficulties has yet to be faced in the application of this form of protection to certain industrial and commercial installations and special attention is being devoted to this matter in collaboration with all metropolitan electricity supply authorities.

Electrolysis Mitigation—Metropolitan Area.

The Electrolysis Committee, consisting of representatives of the Postmaster-General, Victorian Railways Commissioners, Melbourne and Metropolitan Board of Works, Melbourne and Metropolitan Tramways Board, Melbourne City Council, Metropolitan Gas Company, and State Electricity Commission of Victoria, has, through the Electrolysis Research Engineer, operating in conjunction with its Technical Sub-committee, continued the investigation of electrolysis conditions in the metropolitan area and has installed additional remedial measures and maintained those previously applied, with continuation of the progressive reduction in the total number of faults.

During the year, the Electrolysis Engineer visited America to represent Australian Electrolysis Committees at a Soil Corrosion Conference convened by the National Bureau of Standards, Washington, D.C., United States of America.

PART V.

RETIREMENT OF MR. F. W. CLEMENTS, CHAIRMAN, 1931-1937.

Mr. F. W. Clements, who did not seek re-appointment, retired from the position of Chairman of the Commission on the 20th December, 1937, after his tenure of that office had been extended from the 20th October, 1937. Appointed a member of the Commission in 1926, he succeeded to the office of Chairman in October, 1931. At the last meeting of the Commission over which he presided, on the 15th December, 1937, the Honorable the Minister in Charge of Electrical Undertakings, Mr. F. E. Old, M.L.A., was present to convey to Mr. Clements, personally, the Government's thanks for the splendid services which he had rendered to the State. The Minister said that the fine sense of responsibility and the capabilities displayed by Mr. Clements in the direction of the Commission's affairs were worthy of the highest praise. This applied both to the business and technical sides of the Commission's undertaking, and also to Mr. Clements' regard for the best interests of the community at large. Mr. Clements had the unique distinction of being one of the real pioneers of electricity supply in Australia, after having played an important part in electrical affairs in other parts of the world, and his career was an eloquent testimony to his breadth of vision and his capacity as a business man and an engineer. The Minister's eulogies were supplemented by those of Mr. Clements' colleagues.

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

> "The Commission records with the greatest regret the retirement of Mr. F. W. Clements, M.Inst.C.E., M.I.E.E., M.I.E. (Aust.), from the Commission of which he was Chairman, and wishes to express its high appreciation of his leadership, for which his ability and exceptional experience as an engineer and administrator in the business of electricity supply, extending over a period of 40 years in Victoria and other parts of Australia, so eminently fitted him.
>
> The Commission feels that the success of electricity supply in Victoria owes much to his able pioneering, and recognizes that, firstly, in the capacity of Commissioner, and later as Chairman, his accumulated knowledge and experience were applied zealously, successfully and with the utmost singleness of purpose to the progress of the Commission in the best interests of consumers of electricity. The Commission is gratified to think that as a member of the Brown Coal Advisory Committee in 1917, Mr. Clements played a valuable part in directing public attention to the need of a system of electricity supply based on the utilization of the State's natural resources, and that afterwards the State should have had the benefit of his services in the development of such a system.
>
> Mr. Clements' name always will be associated with electricity supply in Victoria, not only as its pre-eminent pioneer, but also for the work which he did for the State during the eleven years of his association with the affairs of the Commission."

APPOINTMENT OF CHAIRMAN.

Mr. G. G. Jobbins, M.I.E.E., M.I.E. (Aust.), who at the time occupied the position of Engineer and Manager, Electricity Supply Department of the Commission, was appointed by the Government as Chairman of the Commission for three years, commencing on the 21st December, 1937.

RE-APPOINTMENT OF COMMISSIONER.

Mr. Commissioner D. J. McClelland, M.C.E., M.Inst.C.E., M.I.E. (Aust.), was re-appointed by the Government as a Commissioner for a period of five years from the 8th August, 1937.

LEAVE OF ABSENCE TO COMMISSIONER.

Mr. Commissioner A. W. Fairley was granted leave of absence for five months from the end of March, 1938, and went abroad in association with the Commonwealth Government delegation to the Imperial Trade Conference.

APPRECIATION OF STAFF.

It is with pleasure and satisfaction that the Commission again records its appreciation of the loyal and efficient services rendered by the staff during the year.

We have the honour to be,
Sir,
Your obedient servants,

G. G. JOBBINS, *Chairman.*

D. J. McCLELLAND, *Commissioner.*

C. A. NORRIS, *Commissioner.*

ANDREW W. FAIRLEY, *Commissioner.*

W. J. PRICE,
Secretary.
27th October, 1938.

APPENDIX No. 1.

STATE ELECTRICITY COMMISSION OF VICTORIA.

GENERAL PROFIT AND LOSS ACCOUNT FOR YEAR ENDED 30th JUNE, 1938.

Dr. To *Expenditure*—	£ s. d.	£ s. d.
Electricity Supply—		
Purchased Power	37,838 12 2	
Generation and Transmission	2,034,641 10 10	
Distribution	1,167,310 11 9	
	3,239,790 14 9	
Deduct Cost of Power transferred to Works	18,702 13 3	
		3,221,088 1 6
Briquetting—		
Manufacturing	274,185 6 6	
Distribution and Selling	212,571 9 3	
	486,756 15 9	
Deduct Cost of Briquettes transferred to Works	93,624 9 0	
		393,132 6 9
Tramways		133,089 5 0
Miscellaneous		48,167 6 0
Sinking Fund Contributions		10,565 0 0
Provident Fund Contributions		34,561 3 5
Loan Flotation Expenses		18,840 0 0
Proportion of Amount charged to Commission by Treasury in accordance with decision of Cabinet, 22nd July, 1922		5,000 0 0
Contingency Reserve		50,000 0 0
Special Writings off and Provision for Research Work, &c.		42,910 0 0
Profit carried down		53,829 8 1
		4,011,182 10 9
To Balance as at 30th June, 1937		682,882 2 5
		£682,882 2 5

Cr. By *Income*—	£ s. d.	£ s. d.
Electricity Supply—		
Bulk Supply	643,638 12 9	
Public Lighting	131,919 9 10	
Domestic	1,179,049 19 7	
Industrial	951,774 15 2	
Commercial	611,689 2 7	
Miscellaneous	10,324 0 2	
	3,528,396 0 1	
Add Meters unread 30th June, 1938, and Service Charges received in advance 30th June, 1937	215,056 13 10	
	3,743,452 13 11	
Deduct Meters unread 30th June, 1937, and Service Charges received in advance 30th June, 1938	203,479 3 1	
		3,539,973 10 10
Briquetting—		
Briquette Sales	372,974 13 5	
Add Briquettes on hand 30th June, 1938	48,791 8 6	
	421,766 1 11	
Deduct Briquettes on hand 30th June, 1937	27,132 4 3	
		394,633 17 8
Tramways		75,567 8 4
Miscellaneous		1,007 13 11
		4,011,182 10 9
By Profit for year		53,829 8 1
„ Balance as at 30th June, 1938, carried to General Balance Sheet		629,052 14 4
		£682,882 2 5

Sales of Electrical Appliances—The operating accounts include in respect of this function—

	Revenue.	*Expenditure.*
1936–1937	£11,681	£8,754
1937–1938	15,730	11,314

STATE ELECTRICITY COMMISSION OF VICTORIA.

GENERAL BALANCE-SHEET AS AT 30th JUNE, 1938.

LIABILITIES.

	£	£ s. d.	£ s. d.
CAPITAL LIABILITIES—			
Victorian Government Advances—			
Loan Act No. 3029	355,000		
" " 3101	1,430,000		
" " 3160	2,006,000		
" " 3234	1,576,000		
" " 3306	1,447,000		
" " 3381	1,569,500		
" " 3433	1,841,000		
" " 3478	1,918,334		
" " 3565	1,750,000		
" " 3606	2,050,000		
" " 3831	1,874,000		
" " 3934	1,160,000		
" " 3993	240,000		
	19,216,834		
Expenditure under above Acts		10,876,334 0 0	
Add Expenditure under Treasury Act No. 3598		1,250,000 0 0	
" " " " " 3825		1,000,000 0 0	
" " " " " 3274		2,500,000 0 0	
" " " " " 3345		1,500,000 0 0	
" " " " " 3934		907,337 5 3	
" " " " " 2026		143,784 19 7	
		18,177,456 4 10	
Deduct Redeemed or Cancelled Securities		866,820 16 2	
		17,310,635 8 8	
Advance from National Recovery Loan Fund		93,985 12 6	
Advance by Treasury from Public Account		27,661 13 6	
		17,432,282 14 8	
State Electricity Commission of Victoria Loans	£1,782,000 0 0		
Deduct Redeemed or Cancelled Securities	37,460 0 0		
		1,744,540 0 0	
Debentures (as per Schedule)		65,441 17 8	19,242,264 12 4
CURRENT AND ACCRUED LIABILITIES—			
Sundry Creditors		102,067 18 3	
Sundry Creditors, Retention		25,069 12 3	
Consumers' Deposits		30,484 16 1	
Service Charges received in Advance		84,612 11 7	
Unclaimed Wages		78 3 3	
Consumers' Advances for Construction		12,548 4 6	
Other Deposits and Trust Moneys		16,766 16 11	
Interest Accrued		11,234 12 7	
Salaries and Wages Accrued		39,918 5 7	
Insurances, Telephone Charges, and Rents Accrued		11,813 15 10	
Miscellaneous Current and Accrued Liabilities		14,021 19 0	348,616 15 10
RESERVES—			
Depreciation and Sinking Funds		5,238,933 3 3	
Contingency and other		411,409 10 5	
Doubtful Debts		22,000 18 7	
			5,672,343 12 3
			25,263,225 0 5

ASSETS.

	£ s. d.	£ s. d.	£ s. d.
FIXED CAPITAL—			
Coal Supply Works	975,582 16 2		
Briquette Works	1,270,286 15 8		
Power Stations—			
Steam	5,702,081 16 7		
Hydro	812,310 13 7		
Transmission Lines	2,814,095 17 9		
Terminal Stations	995,178 7 4		
Transmission Sub-stations	790,790 6 0		
Distributing Systems	5,684,442 10 0		
Tramways	341,794 19 5		
Townships	602,689 15 9		
General	1,713,076 4 8		
Unfinished Construction	1,040,934 8 3		
	22,743,264 11 2		
Deduct Proportion of cost of extensions payable by Consumers	44,371 7 6		22,698,893 3 8
CURRENT AND ACCRUED ASSETS—			
Cash	28,946 4 7		
Sundry Debtors	556,287 8 9		
Stores	467,220 18 10		
Advances	1,941 3 8		
Investments	4,063 11 0		
Miscellaneous Current and Accrued Assets	5,082 5 9		1,063,541 12 7
RESERVE FUNDS—			
Sinking Fund	4,992 6 8		
Contingency Fund	161,649 14 6		166,642 1 2
SUSPENSE—			
Overburden Removal and Disposal	312,653 17 8		
Preliminary Investigations	2,325 10 9		
Chargeable Work	3,545 11 1		
Paid in Advance Accounts	4,554 13 10		
Unamortised Loan Flotation Expense	243,888 9 3		
Work in Progress	41,159 3 10		
Amount charged to Commission by Treasury in accordance with decision of Cabinet, 22nd July, 1922	22,023 6 8		
Hospital and Health Centre, Yallourn	23,240 12 9		
Miscellaneous	51,704 2 10		
Profit and Loss Account as at 30th June, 1937	£682,882 2 5		
Less Profit for year 1937-38	53,829 8 1		
	629,052 14 4		1,334,148 3 0
			25,263,225 0 5

There is a contingent asset and liability in respect of securities lodged as bona fides under Contracts to the extent of £37,876 18s. 5d., and held by the Bank on the Commission's behalf.

H. S. KILFOYLE, Chief Accountant. R. LIDDELOW, Manager. 19th September, 1938.

AUDITOR-GENERAL'S 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, 1938. The values of the stores have been accepted on the certificates of the storekeepers.

5th October, 1938.

APPENDIX No. 1—*continued.*

STATE ELECTRICITY COMMISSION OF VICTORIA

SCHEDULE OF FIXED CAPITAL AT 30th JUNE, 1938.

	Expenditure during 1937-38.	Total Expenditure at 30th June, 1938.	
	£ s. d.	£ s. d.	£ s. d.
COAL SUPPLY WORKS—			
Yallourn	35,801 12 2	975,582 16 2	975,582 16 2
BRIQUETTE FACTORY—YALLOURN	16,659 10 0	1,270,286 15 8	1,270,286 15 8
POWER STATIONS—STEAM—			
Yallourn	311,138 8 1	4,239,309 13 5	
Newport "B"	*Cr.* 60 0 0	834,704 1 9	
Richmond	77 7 0	238,279 1 6	
Ballarat	8,246 5 11	41,270 8 1	
Bendigo	*Cr.* 2,403 16 8	19,879 6 2	
Geelong	1,190 12 0	328,639 5 8	
			5,702,081 16 7
POWER STATIONS—HYDRO	3,648 2 3	812,310 13 7	
			812,310 13 7
TRANSMISSION LINES—			
Yallourn to Yarraville and Richmond	5,635 3 6	778,920 1 1	
Newport to Yarraville	..	26,785 18 5	
Geelong to Yarraville	225 7 7	28,068 10 5	
Sugarloaf to Thomastown	15 15 11	202,055 0 1	
Sugarloaf–Rubicon Area	..	33,124 16 5	
Metropolitan Area	4,803 8 1	594,521 2 10	
Ballarat Branch	12,621 4 4	12,621 4 4	
Castlemaine Branch	30,000 7 0	192,583 17 10	
Eastern Metropolitan Branch	29,705 11 0	176,931 3 8	
Geelong Branch	655 1 2	26,373 12 1	
Gippsland Branch	20,350 0 3	224,706 0 3	
North-Eastern Branch	12,803 16 0	317,109 12 1	
South-Western Branch	18,047 11 9	189,696 0 11	
Metropolitan Branch	4,045 9 11	10,598 17 4	
			2,814,095 17 9
TERMINAL STATIONS—			
Yarraville	14,234 3 3	572,353 11 1	
Thomastown	90 12 4	100,031 7 6	
Richmond	28,211 9 11	248,895 14 9	
Rubicon	378 9 2	68,799 15 2	
Geelong	..	5,097 18 10	
			995,178 7 4
TRANSMISSION SUB-STATIONS—			
Metropolitan Area	42,631 12 6	608,787 4 2	
Castlemaine Branch	21 12 5	27,860 11 11	
Eastern Metropolitan Branch	..	1,065 16 4	
Gippsland Branch	*Cr.* 38 9 5	8,522 1 1	
North-Eastern Branch	14,463 5 4	88,109 2 8	
South-Western Branch	*Cr.* 443 18 4	56,445 9 10	
			790,790 6 0
DISTRIBUTING SYSTEMS—			
Metropolitan Branch	179,540 13 1	3,874,255 17 5	
Ballarat Branch	17,959 18 3	149,584 4 8	
Bendigo Branch	13,605 4 4	178,057 19 8	
Castlemaine Branch	51,474 6 7	125,551 1 1	
Eastern Metropolitan Branch	41,177 12 0	336,099 12 0	
Geelong Branch	8,132 10 5	296,715 13 7	
Gippsland Branch	36,642 15 11	291,315 11 7	
North-Eastern Branch	27,230 18 7	242,333 16 3	
South-Western Branch	14,190 17 4	170,872 5 9	
Yallourn Branch	1,063 14 0	17,775 7 1	
Brown Coal Mine	75 14 7	1,881 0 11	
			5,684,442 10 0
TRAMWAYS—			
Ballarat	13,447 13 3	90,800 6 3	
Bendigo	2,673 14 4	48,138 9 9	
Geelong	75 17 0	202,856 3 5	
			341,794 19 5
TOWNSHIPS—			
Yallourn	18,565 17 10	593,572 18 11	
Brown Coal Mine	..	9,116 16 10	
			602,689 15 9
GENERAL—			
Metropolitan Branch	50,277 13 9	679,559 16 9	
Ballarat Branch	9,077 16 8	20,017 6 10	
Bendigo Branch	*Cr.* 422 12 0	5,332 5 2	
Castlemaine Branch	2,925 15 9	7,404 11 4	
Eastern Metropolitan Branch	2,068 13 6	24,161 9 2	
Geelong Branch	1,785 7 2	24,985 15 1	
Gippsland Branch	2,445 16 3	10,150 11 0	
North-Eastern Branch	3,586 4 11	22,467 15 6	
South-Western Branch	2,977 7 6	15,672 9 5	
Yallourn Branch	22,877 17 10	512,222 7 10	
Metropolitan Area	74,965 18 3	391,101 16 7	
			1,713,076 4 8
	1,211,179 1 6	21,702,330 2 11	21,702,330 2 11
UNFINISHED CONSTRUCTION—			
Beginning of year—*Deduct*	679,068 7 7	..	..
	532,110 13 11	21,702,330 2 11	21,702,330 2 11
UNFINISHED CONSTRUCTION—			
End of year—*Add*	1,040,934 8 3	1,040,934 8 3	1,040,934 8 3
	1,573,045 2 2	22,743,264 11 2	22,743,264 11 2
Deduct—Proportion of Cost of Extensions payable by Consumers	7,126 12 8	44,371 7 6	44,371 7 6
	1,565,918 9 6	22,698,893 3 8	22,698,893 3 8

STATE ELECTRICITY COMMISSION OF VICTORIA.

LOANS RAISED UNDER THE AUTHORITY OF THE STATE ELECTRICITY COMMISSION ACTS No. 4087 and 4512.

Loan No.	Original Issue.	Rate	Term.	Due.	Sinking Fund.	Redeemed to 30th June, 1938.	Outstanding at 30th June, 1938.
	£ s. d.	%	Years.		%	£ s. d.	£ s. d.
State Electricity Commission of Victoria Loan No. 1	600,000 0 0	3½	20	1954	1	24,000 0 0	576,000 0 0
„ „ „ „ „ „ 2	382,000 0 0	3½	20	1954	1	11,460 0 0	370,540 0 0
„ „ „ „ „ „ 3	100,000 0 0	4	15	1951	1	2,000 0 0	98,000 0 0
„ „ „ „ „ „ 4	700,000 0 0	3½	10	1948	1	..	700,000 0 0

DEBENTURES GUARANTEED BY THE STATE ELECTRICITY COMMISSION OF VICTORIA.

Branch.	Undertaking.	Details.	Actual Rate.	Rate under Financial Emergency Act.	Original Issue.	Date of Acquisition.	Outstanding at Date of Acquisition.	Redeemed Since Date of Acquisition.	Outstanding at 30th June, 1938.	Total Outstanding.
			%	%	£ s. d		£ s. d.	£ s. d.	£ s. d.	£ s. d.
METROPOLIS.										
Metropolitan	Melbourne Electric Supply Company	First Mortgage Debenture Stock	5	5	250,000 0 0	1.9.30	197,463 0 0	197,463 0 0	..	
		Consolidated Debenture Stock	5	5	250,000 0 0	„	188,596 0 0	188,596 0 0	..	
		Gold Bonds	7½	7½	513,769 0 0	„	472,602 14 10	472,602 14 10	..	
		General Mortgage Debenture Stock ..	6	6	300,000 0 0	„	275,595 0 0	275,595 0	..	
		Debenture Stock	6½	6½	300,000 0 0	„	300,000 0 0	300,000 0 0	..	
		„ „	7	7	400,000 0 0	„	400,000 0 0	400,000 0 0	..	
					2,013,769 0 0		1,834,256 14 10	1,834,256 14 10	..	..
COUNTRY.										
Bendigo	Kangaroo Flat ..	Marong Shire .. .. Loan No. 2	5⅞	5	1,700 0 0	1.7.31	1,591 17 11	235 10 11	1,356 7 0	
	Eaglehawk	Eaglehawk Borough .. .. „ 5	4	4	6,000 0 0	1.2.35	1,000 0 0	1,000 0 0	..	
	„	„ „ .. .. „ 6	4	4	2,500 0 0	„	500 0 0	500 0 0	..	
	„	„ „ .. .. „ 8	4¼	4¼	3,500 0 0	„	3,150 13 3	480 1 8	2,670 11 7	
	„	„ „ .. .. „ 9	3¾	3¾	4,500 0 0	„	4,345 9 8	412 7 5	3,933 2 3	
					18,200 0 0		10,588 0 10	2,628 0 0	7,960 0 10	7,960 0 10
Castlemaine	Gisborne	Gisborne Shire .. .. Loan No. 3	6½	4¼	900 0 0	1.10.28	781 15 5	606 11 7	175 3 10	
	Kyneton	Kyneton Shire .. .. „ 3	5¾	4½	12,000 0 0	1.10.29	10,830 0 0	2,315 0 0	8,515 0 0	
	„	„ „ .. .. „ 5	6	4¼	3,800 0 0	„	3,084 15 2	1,563 13 2	1,521 2 0	
	Sunbury	Bulla Shire .. .. .. „ A	4¼	4¼	5,000 0 0	1.5.26	2,500 0 0	2,000 0 0	500 0 0	
	Woodend	Newham and Woodend Shire „ 1	4	4	2,000 0 0	1.8.29	200 0 0	200 0 0	..	
	„	„ „ „ „ „ 2	5	5	750 0 0	„	750 0 0	300 0 0	450 0 0	
	„	„ „ „ „ „ 4	6	5	1,500 0 0	„	1,500 0 0	1,500 0 0	..	
	„	„ „ „ „ „ 5	6	5	1,000 0 0	„	1,000 0 0	..	1,000 0 0	
					26,950 0 0		20,646 10 7	8,485 4 9	12,161 5 10	12,161 5 10

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

Branch.	Undertaking.	Details.	Actual Rate.	Rate under Financial Emergency Act.	Original Issue.	Date of Acquisition.	Outstanding at Date of Acquisition.	Redeemed Since Date of Acquisition.	Outstanding at 30th June, 1938.	Total Outstanding.
			%	%	£ s. d.		£ s. d.	£ s. d.	£ s. d.	£ s. d.
		COUNTRY—*continued.*								
Eastern Metropolitan ..	Dandenong	Dandenong Shire .. .. Loan No. 19	6¼	5	6,600 0 0	1.10.23	5,941 7 1	5,941 7 1	..	
	„	„ „ .. .. „ 20	6	5	4,000 0 0	„	3,946 19 0	2,470 16 7	1,476 2 5	
	Frankston ..	Frankston and Hastings Shire „ 10	6½	5·0375	5,000 0 0	21.2.28	3,690 16 11	3,690 16 11	..	
	„	„ „ „ „ „ 11	6	5	3,000 0 0	„	2,277 2 3	2,277 2 3	..	
	„	„ „ „ „ „ 13	6¼	5	4,000 0 0	„	3,366 6 2	2,970 3 11	396 2 3	
	„	„ „ „ „ „ 15	6½	5·0375	3,000 0 0	„	2,290 0 0	2,290 0 0	..	
	„	„ „ „ „ „ 16	6½	5·0375	5,000 0 0	„	4,665 15 5	2,026 0 8	2,639 14 9	
	Healesville	Healesville Shire .. .. „ 2	6	4½	8,000 0 0	1.4.33	6,215 0 0	1,180 0 0	5,035 0 0	
	„	„ „ .. .. „ 3	6½	4½	2,000 0 0	„	1,585 0 0	290 0 0	1,295 0 0	
	„	„ „ .. .. „ 4	6½	4½	1,500 0 0	„	1,500 0 0	1,500 0 0	..	
	„	„ „ .. .. „ 7	6½	5·0375	1,500 0 0	„	1,500 0 0	1,500 0 0	..	
	„	„ „ .. .. „ 9	5¾	5	3,000 0 0	„	2,728 11 2	344 8 11	2,384 2 3	
	Lilydale	Lilydale Shire .. .. „ 16	6½	5·0375	3,000 0 0	1.4.25	2,869 12 7	885 0 4	1,984 12 3	
	Mornington	Mornington Shire .. .. „ 7	6½	4½	4,445 0 0	1.8.30	3,195 0 0	2,090 0 0	1,105 0 0	
	„	„ „ .. .. „ 9	6½	5·0375	1,200 0 0	„	630 0 0	630 0 0	..	
	„	„ „ .. .. „ 11	5¾	5	1,000 0 0	„	895 16 8	332 2 8	563 14 0	
	Ringwood and Croydon	Lilydale Shire .. .. „ 11	5	5	2,100 0 0	1.4.25	1,100 0 0	1,100 0 0	..	
	„ „	„ „ .. .. „ 13	6	5	1,200 0 0	„	1,200 0 0	..	1,200 0 0	
	„ „	„ „ .. .. „ 16	6½	5·0375	2,000 0 0	„	1,913 1 7	590 0 1	1,323 1 6	
	„ „	„ „ .. .. „ 17	6	5	4,000 0 0	„	3,600 0 0	2,600 0 0	1,000 0 0	
	Sorrento and Portsea..	Flinders Shire .. .. „ 3	6	5	3,600 0 0	1.10.27	2,700 0 0	2,300 0 0	400 0 0	
	„ ..	„ „ .. .. „ 4	6½	5·0375	5,000 0 0	„	4,185 0 0	2,795 0 0	1,390 0 0	
	„ „ ..	„ „ .. .. „ 5	6	5	3,500 0 0	„	3,356 10 7	1,454 10 11	1,901 19 8	
					77,645 0 0		65,351 19 5	41,257 10 4	24,094 9 1	24,094 9 1
North-Eastern ..	Alexandra	Alexandra Shire .. .. Loan No. 1	6	5	4,500 0 0	11.4.27	3,832 18 10	3,832 18 10	..	
	Benalla	Benalla Shire .. .. „ A	6	5	15,000 0 0	1.5.26	15,000 0 0	15,000 0 0	..	
	„	„ „ .. .. „ B	6½	5·0375	3,000 0 0	„	3,000 0 0	3,000 0 0	..	
	Euroa	Euroa Shire .. .. „ 3	5	5	600 0 0	20.3.28	311 4 0	311 4 0	..	
	„	„ „ .. .. „ 4	7	5·425	2,000 0 0	„	967 5 10	967 5 10	..	
	„	„ „ .. .. „ 7	6½	5·0375	1,200 0 0	„	939 4 0	939 4 0	..	
	„	„ „ .. .. „ 9	6¼	5	1,500 0 0	„	1,320 4 0	1,320 4 0	..	
	Mansfield	Mansfield Shire .. .. „ 6	6	5	1,200 0 0	1.6.28	1,200 0 0	..	1,200 0 0	
	„	„ „ .. .. „ 3	4½	4½	500 0 0	„	500 0 0	..	500 0 0	
	„	„ „ .. .. „ 8	6	5	800 0 0	„	800 0 0	500 0 0	300 0 0	
	Mooroopna	Rodney Shire .. .. „ 1	5	5	3,000 0 0	1.10.26	2,286 7 8	1,220 7 1	1,066 0 7	
	Nathalia	Numurkah Shire .. .. „ 4	4¾	4¾	4,200 0 0	1.10.31	2,600 0 0	1,200 0 0	1,400 0 0	
	„	„ „ .. .. „ 8	6¼	5	3,500 0 0	„	2,257 15 5	1,911 3 5	346 12 0	
	Numurkah	„ „ .. .. „ 3	4½	4½	700 0 0	„	300 0 0	300 0 0	..	
	„	„ „ .. .. „ 5	4¾	4¾	800 0 0	„	200 0 0	200 0 0	..	
	„	„ „ .. .. „ 7	7	5·425	2,500 0 0	„	1,922 4 11	633 7 10	1,288 17 1	
	Rutherglen	Rutherglen Borough .. „ 2	4½	4½	3,000 0 0	15.10.26	2,094 3 8	1,372 11 7	721 12 1	
	Wahgunyah	„ Shire .. .. „ 4	6	5	350 0 0	1.2.26	296 1 8	137 4 6	158 17 2	
	Wangaratta	Wangaratta Shire .. .. „ 8	6½	4¼	6,500 0 0	12.3.27	6,078 12 8	1,672 18 2	4,405 14 6	
	„	„ „ .. .. „ 9	6	4¼	1,500 0 0	„	1,412 2 5	406 5 8	1,005 16 9	
	Yarrawonga	Yarrawonga Shire .. .. „ 3	4	4	3,500 0 0	1.8.25	2,600 0 0	1,500 0 0	1,100 0 0	
	„	„ „ .. .. „ 4	4½	4¼	800 0 0	„	576 3 8	399 2 10	177 0 10	
	„	„ „ .. .. „ 5	5	4¼	500 0 0	„	387 11 1	233 13 2	153 17 11	
	„	„ „ .. .. „ 6	5	4¼	500 0 0	„	406 1 8	216 19 5	189 2 3	
					61,650 0 0		51,288 1 6	37,274 10 4	14,013 11 2	14,013 11 2

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

Branch.	Undertaking.	Details.	Actual Rate.	Rate under Financial Emergency Act.	Original Issue.	Date of Acquisition.	Outstanding at Date of Acquisition.	Redeemed Since Date of Acquisition.	Outstanding at 30th June, 1938.	Total Outstanding.
			%	%	£ s. d.		£ s. d.	£ s. d.	£ s. d.	£ s. d.
		COUNTRY—*continued.*								
Gippsland	Korumburra	Korumburra Shire .. .. Loan No. 4	4	4	2,500 0 0	1.12.24	2,500 0 0	2,500 0 0	..	
	,, ...	,, ,, ... ,, 5	4	4	700 0 0	,,	700 0 0	700 0 0	..	
	,, ...	,, ,, ... ,, 7	4	4	1,000 0 0	,,	1,000 0 0	1,000 0 0	..	
	,, ...	,, ,, ... ,, 8	5	5	700 0 0	,,	700 0 0	700 0 0	..	
	Maffra	Maffra Shire .. .. ,, 1	4¾	4¾	6,500 0 0	1.9.24	5,660 0 11	1,871 7 3	3,788 13 8	
	,, ...	,, ,, ... ,, 2	5½	5	1,000 0 0	,,	877 5 7	417 10 7	459 15 0	
	Morwell	Morwell Shire .. .. ,, 2	7	5·425	1,500 0 0	1.4.26	1,015 0 0	1,015 0 0	..	
	,, ...	,, ,, ... ,, 3	6	5	500 0 0	,,	265 0 0	265 0 0	..	
					14,400 0 0		12,717 6 6	8,468 17 10	4,248 8 8	4248 8 8
South-Western ..	Camperdown ..	Hampden Shire .. .. Loan No. 1	4	4	8,000 0 0	8.1.24	2,600 0 0	2,200 0 0	400 0 0	
	,, ..	,, ,, ... ,, 3	4	4	1,400 0 0	,,	750 0 0	700 0 0	50 0 0	
	Koroit	Koroit Borough .. .. ,, 1	4¼	4¼	6,500 0 0	1.12.28	4,000 0 0	2,600 0 0	1,400 0 0	
	Terang	Hampden Shire .. .. ,, 2	4	4	3,000 0 0	4.3.24	1,600 0 0	1,400 0 0	200 0 0	
	,, ...	,, ,, ... ,, 4	4	4	1,500 0 0	,,	850 0 0	700 0 0	150 0 0	
					20,400 0 0		9,800 0 0	7,600 0 0	2,200 0 0	2,200 0 0
Metropolitan (included in country debentures)	Werribee	Werribee Shire .. .. Loan No. 1	5	5	4,000 0 0	10.4.24	2,200 0 0	2,200 0 0	..	
	,, ...	,, ,, ... ,, 3	4¾	4¾	1,000 0 0	,,	818 1 5	469 19 4	348 2 1	
	,, ...	,, ,, ... ,, 4	5½	5	1,000 0 0	,,	856 16 2	440 16 2	416 0 0	
	,, ...	,, ,, ... ,, 5	6½	5·0375	1,000 0 0	,,	760 0 0	760 0 0	..	
					7,000 0 0		4,634 17 7	3,870 15 6	764 2 1	764 2 1
	Total for Country				226,245 0 0		175,026 16 5	109,584 18 9	65,441 17 8	65,441 17 8
	Total for Metropolis				2,013,769 0 0		1,834,256 14 10	1,834,256 14 10	..	..
	GRAND TOTAL				2,240,014 0 0		2,009,283 11 3	1,943,841 13 7	65,441 17 8	65,441 17 8

APPENDIX No. 2.

STATE ELECTRICITY COMMISSION OF VICTORIA.

OVERHEAD TRANSMISSION LINES.

Description.	Erected during Year ended 30th June, 1938.		Total Erected to 30th June, 1938.	
	Route Miles.	Cable Miles.	Route Miles.	Cable Miles.
132,000-Volt Transmission Lines.				
Yallourn–Yarraville	..	..	110	660
Yallourn–Richmond	..	..	80	480
Metropolitan Branch.				
22,000-volt Lines	10·4	61·3	181·7	586·4
6·6, 7·2 and 4·16 kV. Lines	12·9	41·3	284·6	759·4
Eastern Metropolitan Branch.				
22,000-volt Lines	44·5	107·5	245·1	639·6
6,600-volt Lines	−8·4	−25·7	108·1	267·4
Ballarat Branch.				
6,600-volt Lines	41·8	116·7	71·0	198·4
Bendigo Branch.				
22,000-volt Lines	4·1	49·2	25·4	74·8
6,600-volt Lines	−3·0	−9·1	1·1	3·3
Geelong Branch.				
6,600-volt Lines	6·3	12·5	122·2	394·4
Castlemaine Branch.				
66,000-volt Lines	0·2	52·1	93·4	436·8
22,000-volt Lines	48·2	136·1	148·3	415·9
6,600-volt Lines	..	..	1·57	4·7
Gippsland Branch.				
22,000-volt Lines	137·8	325·4	637·8	1,647·2
6,600-volt Lines	..	..	8·47	16·9
North-Eastern Branch.				
66,000-volt Lines	..	..	170·3	686·4
22,000-volt Lines	51·5	124·0	373·1	1,183·6
6,600-volt Lines	0·4	−0·9	4·8	13·0
South-Western Branch.				
44,000-volt Lines	..	..	116·24	487·42
22,000-volt Lines	151·4	322·6	214·4	510·7
6,600-volt Lines	−14·5	−43·4	118·6	293·7
Yallourn.				
11,000-volt Lines	..	..	1·415	8·49
Yarraville to Geelong.				
66,000-volt Lines	..	..	39·34	118·02
Total	483·6	1,229·6	3,156·93	9,886·53

SUMMARY OF OVERHEAD TRANSMISSION LINES.

Description	Erected during Year ended 30th June, 1938.		Total Erected to 30th June, 1938.	
	Route Miles.	Cable Miles.	Route Miles.	Cable Miles.
132,000 volts	..	..	190	1,140
66,000 volts	0·2	52·1	303·04	1,241·22
44,000 volts	..	..	116·24	487·42
22,000 volts	447·9	1,086·1	1,825·8	5,058·2
11,000 volts	..	..	1·415	8·49
6,600 volts	35·5	91·4	720·04	1,952·15
Total	483·6	1,229·6	3,156·935	9,886·53

UNDERGROUND CABLES.

	Cable Miles Laid during Year ended 30th June, 1938.	Total Cable Miles Laid at 30th June, 1938.
22,000 volts	6·82	118·257
4·16, 6·6, and 7·2 kV.	8·40	419·961
400 volts	1·74	17·208
Pilot and Telephone	2·5	68·64
Supervisory Control	0·256	11·439
Miscellaneous	0·447	14·523
Total	20·163	650·028

APPENDIX No. 3.

STATE ELECTRICITY COMMISSION OF VICTORIA.

NUMBER AND CAPACITY OF SUB-STATIONS.

—	Erected During Year.	Kva. Added During Year.	Total Sub-stations.	Total kva.
Terminal Stations	..	37,500	4	261,900
Main Metropolitan Transmission Sub-stations ..	..	17,750	22	233,000
Distribution Sub-stations at Line Voltage ..	— 1	— 6,270	13	27,530
Transmission and Distribution Transformer Sub-stations.				
Metropolitan Branch—				
Distribution Transformer Sub-stations ..	15	8,065	588	150,065
Eastern Metropolitan Branch—				
Distribution Transformer Sub-stations ..	56	1,487	315	9,799
Ballarat Branch—				
Distribution Transformer Sub-stations ..	11	569	46	3,854
Bendigo Branch—				
Transmission Sub-stations	..	..	1	7,500
Distribution Transformer Sub-stations ..	— 2	— 1,375	30	4,260
Geelong Branch—				
Transmission Sub-stations	..	..	1	1,500
Distribution Transformer Sub-stations ..	8	1,050	99	10,212
Castlemaine Branch—				
Distribution Transformer Sub-stations ..	27	2,880	93	5,155
Gippsland Branch—				
Transmission Sub-stations	..	..	1	200
Distribution Transformer Sub-stations ..	110	2,325	414	10,324
North-Eastern Branch—				
Transmission Sub-stations	1	3,500	9	17,000
Distribution Transformer Sub-stations ..	44	1,965	171	12,565
South-Western Branch—				
Transmission Sub-stations	1	450	6	7,625
Distribution Transformer Sub-stations ..	97	1,167	205	7,124
Sugarloaf-Rubicon Area—				
Distribution Transformer Sub-stations ..	..	..	2	450
Town of Yallourn, &c.—				
Distribution Transformer Sub-stations ..	..	..	37	7,975
Total	367	71,063	2,057	778,038

APPENDIX No. 4.

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

—	State Electricity Commission. Table 3.	Melbourne City Council.	Melbourne Electric Supply.	Totals for General Purposes.	Railway Purposes. Newport "A" Power Station.	Grand Total for all Purposes.
	kwh.	kwh.	kwh.	kwh.	kwh.	kwh.
1925–26 ..	157,035,322	15,600,000	80,616,400	253,251,722	177,695,192	430,946,914
1926–27 ..	235,010,590	12,240,000	52,375,000	299,625,590	178,126,299	477,751,889
1927–28 ..	302,839,997	14,071,976	4,380,550	321,292,523	176,135,807	497,428,330
1928–29 ..	335,721,263	15,769,915	..	351,491,178	173,020,880	524,512,058
1929–30 ..	369,232,691	14,396,740	..	383,629,431	175,286,998	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
1933–34 ..	440,557,929	17,947,700	..	458,505,629	162,345,834	620,851,463
1934–35 ..	479,867,832	35,305,100	..	515,172,932	169,642,201	684,815,133
1935–36 ..	529,869,583	30,296,900	..	560,166,483	171,252,790	731,419,273
1936–37 ..	566,661,452	36,276,200	..	602,937,652	177,044,382	779,982,034
1937–38 ..	623,043,440	31,540,780	..	654,584,220	179,748,948	834,333,168

APPENDIX No. 5.

STATE OF VICTORIA.

TARIFFS AND STATISTICAL DATA OF ELECTRICITY SUPPLY UNDERTAKINGS

METROPOLITAN AREA.

TERRITORIES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA.

District.	Population.	System of Supply.	Number of Consumers.	Tariffs.
Brighton	656,421*	A.C., 1 ph., 200–400 v. ..	172,339*	See Standard Metropolitan Tariffs.
Broadmeadows (Fawkner and Glenroy and portions of North Essendon and Pascoe Vale only)		A.C., 3 ph., 230–400 v. ..		
Camberwell		A.C., 1 ph., 200–400 v. ..		
Caulfield		A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v. ..		
Collingwood		A.C., 3 ph., 230–400 v. ..		
Essendon		A.C., 3 ph., 230–400 v. ..		
Fitzroy		A.C., 3 ph., 230–400 v. ..		
Hawthorn		A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v. ..		
Kensington–Flemington		A.C., 3 ph., 230–400 v. ..		
Kew		A.C., 1 ph., 200–400 v. ..		
Mentone		A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v. ..		
Malvern		A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v. ..		
Moorabbin		A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v. ..		
Mordialloc		A.C., 3 ph., 230–400 v. ..		
Mulgrave		A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v.		
Oakleigh		A.C., 3 ph., 230–400 v. ..		
Prahran		A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v. ..		
Richmond		A.C., 3 ph., 230–400 v. ..		
St. Kilda		A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v. ..		
Sandringham		A.C., 1 ph., 200–400 v. & 3 ph., 230–400 v. ..		
South Melbourne		A.C., 3 ph., 230–400 v. ..		
Sunshine		A.C., 3 ph., 230–400 v. ..		

* Excluding Altona, Town of Broadmeadows, Campbellfield, Deer Park, Werribee, and Werribee South.

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

District.	Population.	Supply Authority.	System of Supply.	Number of Consumers.	Tariffs.
City of Melbourne (excl. Flemington)	92,800	Melbourne City Council ..	D.C., 230–460 v. A.C., 3 ph., 230–400 v.	24,561	Metropolitan Standard Tariffs apply in all these territories with the exception of that of the Melbourne City Council, which has the following Metropolitan Standard Tariffs only :—Residential, All Purposes, Night Rate, Water Heating. In addition to the above, the Melbourne City Council has Tariffs different from Standard for commercial and industrial lighting, radiators, and power and heating.
Box Hill, Blackburn and Mitcham Shire ..	22,990	Box Hill City Council ..	A.C., 3 ph., 230–400 v.	6,131	
Brunswick ..	55,000	Brunswick City Council ..	,, ,, ..	13,712	
Coburg ..	41,000	Coburg City Council ..	,, ,, ..	10,212	
Footscray and part of Braybrook Shire	54,000	Footscray City Council ..	,, ,, ..	12,200	
Heidelberg (excl. Greensborough)	26,000	Heidelberg City Council	,, ,, ..	6,693	
Northcote ..	42,367	Northcote City Council ..	,, ,, ..	11,003	
Port Melbourne	12,250	Port Melbourne City Council	,, ,, ..	2,997	
Preston ..	32,257	Preston City Council ..	,, ,, ..	8,449	
Williamstown ..	22,500	Williamstown City Council	,, ,, ..	6,437	
	401,164			102,395	

APPENDIX No. 5—*continued.*

STANDARD METROPOLITAN TARIFFS (AS AT 1st JULY, 1938).

COMMERCIAL AND INDUSTRIAL SUPPLIES.

Lighting—

Tariff "A/40"—(Block Rate):—

For electricity consumed between two consecutive monthly meter readings—

Up to and including 100 kilowatt-hours	4·0d. per kilowatt-hour.
For all further consumption in the same period	3·0d. „ „

Power and Heating—

Tariff "C/20"—

For electricity consumed between two consecutive monthly meter readings—

Option I.—(Block Rate):—

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

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

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

For electricity consumed between the hours of 7 a.m. and 11 p.m.—Block Rates as 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 of 0·3d. per kilowatt-hour applies to any other spread of hours convenient to it for the consumer or locality concerned.

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

Meter Rental.—See below.

All Purposes—

Tariff "D/40"—

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

Option I.—(Block Rate):—

Up to and including	100 kilowatt-hours	4·0d.	per kilowatt-hour
For the next	900 „	3·0d.	„ „
For the next	4,000 „	1·9d.	„ „
For the next	20,000 „	0·9d.	„ „
For the next	100,000 „	0·8d.	„ „
For all further consumption in the same period		0·75d.	„ „

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

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

For electricity consumed between the hours of 7a.m. and 11 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 1,000 kilowatt-hours consumption per month between the hours of 7 a.m. and 11 p.m.

The Commission reserves the right to—

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

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

Meter Rental.—See below.

Cooking—

Tariff "F/10"—

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

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

RESIDENTIAL SUPPLY.

Lighting, Power, Heating and Cooking—

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

Applicable to electricity supply to premises such as:—

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

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

Service Charge—

1s. per room per month.

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

Energy Charge—

1d. per kilowatt-hour.

Advance Service Charge—

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

Note—

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

Assessment of Premises for Service Charge—

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

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

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

APPENDIX No. 5—*continued.*

STANDARD METROPOLITAN TARIFFS (AS AT 1ST JULY, 1938)—*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/40 " (Option II.—Two-Rate)—For all Two-Rate meters, 5s. per month per meter.

Minimum Charge—

2s. 6d. per month.

APPENDIX No. 5—*continued.*

PROVINCIAL CITIES SERVED BY THE STATE ELECTRICITY COMMISSION OF VICTORIA.

BALLARAT.

District.	Population.	System of Supply.	No. of Consumers.
City of Ballarat	39,770	A.C., 3 ph., 230–400 v.	7,978 (Excluding Buninyong and Creswick Shires, and Borough of Clunes)
		D.C., 3 wire, 230–460 v.	
Borough of Sebastopol		A.C., 3 ph., 230–400 v.	
Ballarat Shire (portion only) ..		A.C., 3 ph., 230–400 v.	

BENDIGO.

District.	Population.	System of Supply.	No. of Consumers.
City of Bendigo	32,391	A.C., 3 ph., 230–400 v.	7,271
Strathfieldsaye Shire (portion only)		A.C., 3 ph., 230–400 v.	
Marong Shire (portion only) including Kangaroo Flat		A.C., 3 ph., 230–400 v.	
Borough of Eaglehawk		A.C., 3 ph., 230–400 v.	
Huntly Shire (portion only)		A.C., 3 ph., 230–400 v.	

GEELONG.

District.	Population.	System of Supply.	No. of Consumers.
City of Geelong	45,600	A.C., 3 ph., 230–400 v. and D.C., 3 wire, 220–440 v.	11,251 (excluding Torquay and Bellarine Peninsula).
City of West Geelong		A.C., 3 ph., 230–400 v.	
Newtown and Chilwell		A.C., 3 ph., 230–400 v.	
Corio (portion of Shire only)		A.C., 3 ph., 230–400 v.	
South Barwon (portion of Shire only) ..		A.C., 3 ph., 230–400 v.	
Bellarine (portion of Shire only)		A.C., 3 ph., 230–400 v.	

TARIFFS AS AT 1ST JULY, 1938.

(BALLARAT, BENDIGO AND GEELONG.)

RESIDENTIAL SUPPLIES.

Lighting, Power, Heating and Cooking—

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

Applicable to electricity supply to premises such as—

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

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

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 the regular billing period must be paid in advance.

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

Assessment of Premises for Service Charge—

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

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

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

Appendix No. 5—*continued.*

Commercial and Industrial Supplies.

Lighting Block Tariff "A".

Ballarat and Bendigo.	Per kWh.	Geelong.	Per kWh.
	d.		*d.*
Up to 200 ..	6·5	Up to 500 ..	5·5
Next 300	5·0	Balance ..	3·5
Balance	4·0		

Power and Heating (Option I.) Block Tariff "C".

Ballarat and Bendigo.	Per kWh.	Geelong.	Per kWh.
	d.		*d.*
Up to 50 ..	3·0	Up to 500 ..	2·25
Next 450 ..	2·25	Next 4,500 ..	1·65
Next 4,500 ..	1·65	Next 25,000 ..	1·0
Next 25,000 ..	1·0	Next 100,000 ..	0·8
Balance ..	0·9	Balance ..	0·75

All Purposes (Option I.) Block Tariff "D."

Ballarat and Bendigo.	Per kWh.	Geelong.	Per kWh.
	d.		*d.*
Up to 200	6·5	Up to 500	5·5
Next 300	5·0	Next 1,000	3·5
Next 1,000	4·0	Next 3,500	2·25
Next 3,500	2·5	Next 25,000	1·0
Next 25,000	1·0	Next 100,000	0·8
Balance	0·9	Balance	0·75

Note.—Lighting, power and heating, and all purposes block tariffs are applicable to monthly consumptions.

Power and Heating (Option II.) "C" and All Purposes (Option II.) "D" (Prescribed Hours) Tariffs (during other hours Option I. rates apply)—0·35d. per kilowatt-hour.

A consumer selecting Option II. Tariffs shall be deemed to have agreed to being charged accordingly for a period of not less than twelve consecutive calendar months, and also in the case of the All Purposes (Option II.) Tariff to pay for at least 1,500 kilowatt-hours consumption per month during other than the prescribed hours.

The Commission reserves the right to—

Alter the times between which the prescribed hours rate 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. Tariffs to enter into a special agreement including conditions deemed appropriate by the Commission to the particular circumstances.

Cooking—

Flat Tariff "F"—

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.

1·5d. per kilowatt-hour for electricity consumed in connexion with electric cooking.

Residential, Commercial and Industrial Supplies.

Water Heating—Prescribed Hours Tariff—

Tariff "I" (Night Rate)—

0·5d. per kilowatt-hour.

The Commission reserves the right to—

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

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

Meter Rentals—

5s. per month per two rate meter (applicable only to Option II. of Power and Heating and All Purposes Tariffs).

Minimum Charge—

3s. per month.

Prescribed Hours—

Under Option II. Power and Heating "C", and All Purposes "D" Tariffs and Water Heating "I" Tariff—10.30 p.m. to 6.30 a.m (10.30 a.m. on Sundays, water heating only).

APPENDIX No. 5—*continued.*

COUNTRY CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA.

(WITH TARIFFS AS AT 1ST JULY, 1938.)

Centre.	Branch.	System of Supply Single-phase 230-460-V. Three-phase 230-400-V.	Population.	Number of Consumers.	Residential Supplies. Lighting, Power, Heating and Cooking (Two-part Tariff). Service Charge per Room per Month.	Residential Supplies. Lighting, Power, Heating and Cooking (Two-part Tariff). Charge per kWh.	Commercial and Industrial Supplies. (See Note 6, page 59, re Cooking (Flat Tariff.) Lighting (Block Tariff). Charge per kWh. Commencing at—	Power and Heating (Block and Prescribed Hour Tariffs). Option I. Charge per kWh. Commencing at—	Power and Heating (Block and Prescribed Hour Tariffs). Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	All Purposes (Block and Prescribed Hour Tariffs). Option I. Charge per kWh. Commencing at—	All Purposes (Block and Prescribed Hour Tariffs). Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I Rates Apply).	Residential, Commercial and Industrial Supplies. Water Heating (Prescribed Hour Tariff). Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m. Sundays).	Date Supply First Undertaken by Commission.
					s. d.	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	
Acheron ..	N/E	A.C., 1 ph.	60	15	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.11.37
Airey's Inlet ..	S/W	A.C., 1 ph.*	30	15	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.12.36
Airly ..	Gipps.	A.C., 1 ph.	80	14	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	16.6.37
Alexandra ..	N/E	A.C., 3 ph.	850	274	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	11.4.27
Alfredton ..	Ball.	(See Ballarat—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Allansford ..	S/W	A.C., 3 ph. and 1 ph.	310	44	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	20.11.24
Altona ..	Metro.	A.C., 1 ph.	1,980	441	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	9.12.24
Alvie ..	S/W	A.C., 1 ph.	125	26	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.10.24
Anglesea ..	S/W	A.C., 1 ph.*	75	42	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	21.12.36
Ardmona ..	N/E	A.C., 1 ph.	240	71	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	25.3.38
Arundel ..	C'maine.	(See Keilor)	..	..	..	..	..	..	..	..	..	..	21.11.35
Baddaginnie ..	N/E	A.C., 1 ph.	80	10	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.7.36
Bairnsdale ..	Gipps.	A.C., 3 ph. and 1 ph.	4,450	1,092	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	1.4.27
Balintore ..	S/W	A.C., 1 ph.*	50	10	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.6.37
Ballarat East ..	Ball.	(See Ballarat—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Ballarat North	Ball.	(See Ballarat—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Balmattum East	N/E	A.C., 1 ph.	30	6	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	8.10.37
Barnawartha ..	N/E	A.C., 1 ph.	250	27	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	7.10.27
Barwon Heads	Geel.	A.C., 1 ph.	300	179	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	6.9.24
Bayles ..	Gipps.	A.C., 3 ph. and 1 ph.	150	42	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	11.9.35
Bayswater ..	E/M	A.C., 1 ph.	356	134	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.7.26
Beaconsfield ..	E/M	A.C., 1 ph.	225	37	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	18.6.28
Beeac ..	S/W	A.C., 1 ph.	466	105	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	21.5.24
Belgrave ..	E/M	A.C., 3 ph.	1,673	658	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	24.8.25
Belmont ..	Geel.	(See Geelong—under Provincial Cities)					..	..	..	..	..	..	1.9.30
Bena	Gipps.	A.C., 3 ph. and 1 ph.	250	51	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	10.7.30
Benalla ..	N/E	A.C., 3 ph.	4,200	1,088	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	1.5.26
Berwick ..	E/M	A.C., 1 ph.	932	149	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	7.5.28
Birregurra ..	S/W	A.C., 1 ph.	448	107	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	30.10.24
Bittern ..	E/M	A.C., 1 ph.	150	18	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	22.12.37
Boisdale ..	Gipps.	A.C., 1 ph.	550	83	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	13.7.37
Bookar ..	S/W	A.C., 1 ph.*	30	4	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	10.8.37
Boolarra ..	Gipps.	A.C., 3 ph. and 1 ph.	400	67	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	29.10.24
Boronia ..	E/M	A.C., 1 ph.	462	169	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.1.27
Bostock's Creek	S/W	A.C., 1 ph.	50	8	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.12.24
Bowser ..	N/E	A.C., 3 ph.	70	3	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.4.34
Braeside ..	E/M	A.C., 1 ph.	25	3	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	27.6.30
Briagolong ..	Gipps.	A.C., 1 ph.	500	44	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	5.3.37
Briar Hill ..	E/M	A.C., 1 ph.	279	87	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	12.5.26
Broadmeadows	Metro.	A.C., 1 ph.	250	36	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	7.3.36
Brown Hill ..	Ball.	(See Ballarat—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Bruthen ..	Gipps.	A.C., 1 ph.	600	88	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.10.30
Bulla ..	C'maine.	A.C., 1 ph.	154	12	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.5.26
Bullock Swamp	S/W	A.C., 1 ph.	45	15	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	12.9.24
Buln Buln ..	Gipps.	A.C., 1 ph.	130	25	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.12.30
Bundalaguah ..	Gipps.	A.C., 1 ph.	80	15	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	13.11.36
Bundoora ..	E/M	A.C., 1 ph.	50	20	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	31.12.27
Buninyong .. (Riding only)	Ball.	A.C., 3 ph.	850	64	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.1.37
Bunyip ..	Gipps.	A.C., 1 ph.	450	78	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.10.28
Burramine ..	N/E	A.C., 1 ph.	50	7	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	12.9.35
Byrneside West	N/E	(See Stanhope)†			..	..	..	..	..	..	..	..	24.5.37
Caldermeade ..	Gipps.	A.C., 1 ph.	140	45	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	6.9.35
Campbellfield ..	Metro.	A.C., 3 ph. and 1 ph.	120	30	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	7.3.36
Camperdown ..	S/W	A.C., 3 ph.	3,500	736	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	30.12.23
Camperdown Rural	S/W	A.C., 1 ph.	500	61	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.1.36
Canadian ..	Ball.	(See Ballarat—under Provincial Cities)					..	..	..	..	..	..	1.7.34

APPENDIX No. 5—*continued.*

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

Centre.	Branch.	System of Supply Single-phase 230-460-V. Three-phase 230-400-V.	Population.	Number of Consumers.	Residential Supplies		Commercial and Industrial Supplies. (See Note 6, page 59, re Cooking (Flat Tariff.)					Residential, Commercial and Industrial Supplies.	Date Supply First Undertaken by Commission.
					Lighting, Power, Heating and Cooking (Two-part Tariff).		Lighting (Block Tariff).	Power and Heating (Block and Prescribed Hour Tariffs).		All Purposes (Block and Prescribed Hour Tariffs).		Water Heating (Prescribed Hour Tariff).	
								Option I.	Option II.	Option I.	Option II.		
					Service Charge per Room per Month.	Charge per kWh.	Charge per kWh. Commencing at—	Charge per kWh. Commencing at—	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Charge per kWh. Commencing at—	Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m. Sundays).	
					s. d.	d.	d.	d.	d.	d.	d.	d.	
Carisbrook ..	C'maine.	A.C., 1 ph.	200	58	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.11.37
Castlemaine ..	C'maine.	A.C., 3 ph. and 1 ph.	5,420	1,072	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	31.12.29
Catani ..	Gipps.	A.C., 1 ph.	80	27	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	27.10.36
Chiltern ..	N/E	A.C., 3 ph.	1,500	148	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.9.26
Chilwell ..	Geel.	(See Geelong—under Provincial Cities)					..	..	..	..	..	..	1.9.30
Chocolyn ..	S/W	A.C., 1 ph.	20	3	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.1.38
Clayton ..	E/M	A.C., 1 ph.	832	106	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	30.4.26
Clematis ..	E/M	A.C., 1 ph.	40	16	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.8.34
Cloverlea ..	Gipps.	A.C., 1 ph.	200	23	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	7.4.30
Clunes ..	Ball.	A.C., 3 ph. and 1 ph.	1,300	149	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.2.38
Clydebank ..	Gipps.	A.C., 1 ph.	80	20	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.4.36
Cobden ..	S/W	A.C., 3 ph.	800	196	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	26.3.24
Cobram ..	N/E	A.C., 3 ph.	880	190	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.10.28
Colac ..	S/W	A.C., 3 ph. and 1 ph.	5,900	1,419	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	1.9.23
Colac Rural ..	S/W	A.C., 3 ph. and 1 ph.	900	69	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.1.36
Coldstream ..	E/M	A.C., 1 ph.	43	27	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.7.33
Congupna ..	N/E	A.C., 3 ph.	50	3	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	7.9.34
Coragulac ..	S/W	A.C., 1 ph.	100	18	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	30.4.24
Cora Lynn ..	Gipps.	A.C., 3 ph. and 1 ph.	200	43	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.8.35
Cororooke ..	S/W	A.C., 3 ph.	400	58	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	27.3.24
Couangalt ..	C'maine.	(See Gisborne)‡		..	..	..	..	..	..	..	..	..	—.8.37
Cowwarr ..	Gipps.	A.C., 3 ph. and 1 ph.	320	86	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	8.11.24
Cranbourne ..	E/M	A.C., 1 ph.	590	93	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	12.9.28
Creswick ..	Ball.	A.C., 3 ph. and 1 ph.	1,700	167	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.11.37
Crib Point ..	E/M	A.C., 1 ph.	1,505	131	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.8.29
Crossley ..	S/W	A.C., 1 ph.*	80	13	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	16.3.38
Croydon ..	E/M	A.C., 3 ph. and 1 ph.	2,055	638	1 0	1·25	7·0	3·0	0·35	7·5	0·35	0·5	1.4.25
Dalmore ..	Gipps.	A.C., 1 ph.	75	11	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	29.1.37
Dandenong ..	E/M	A.C., 3 ph. and 1 ph.	5,404	1,468	1 2	1·25	7·5	4·0	0·35	7·5	0·35	0·5	1.10.23
Darlington ..	S/W	A.C., 1 ph.*	120	9	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	22.4.38
Darnum ..	Gipps.	A.C., 3 ph. and 1 ph.	220	68	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	20.12.24
Dawson ..	Gipps.	A.C., 1 ph.	30	4	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	16.4.37
Deer Park ..	Metro.	A.C., 3 ph. and 1 ph.	156	40	1 4	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.2.29
Dennington ..	S/W	A.C., 1 ph.	315	45	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.2.29
Derrinallum ..	S/W	A.C., 1 ph.	150	36	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	20.4.38
Diamond Creek	E/M	A.C., 1 ph.	464	90	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	10.5.29
Digger's Rest ..	C'maine.	A.C., 1 ph.	156	22	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.3.29
Dingley ..	E/M	A.C., 1 ph.	245	36	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	10.10.29
Dookie ..	N/E	A.C., 1 ph.	250	66	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	8.3.37
Driffield ..	Gipps.	A.C., 1 ph.	100	13	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	6.4.38
Dromana ..	E/M	A.C., 3 ph. and 1 ph.	871	207	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	8.12.27
Drouin ..	Gipps.	A.C., 3 ph. and 1 ph.	1,050	238	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.10.24
Drysdale ..	Geel.	A.C., 1 ph.	1,000	148	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	13.2.24
Dumbalk ..	Gipps.	A.C., 3 ph. and 1 ph.	150	35	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.9.36
Dunolly ..	C'maine.	A.C., 3 ph.	580	142	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	31.3.38
Eaglehawk ..	Bend.	(See Bendigo—under Provincial Cities)					..	..	..	..	..	..	1.10.35
East Oakleigh ..	E/M	A.C., 3 ph.	112	30	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	19.7.26
Echuca ..	N/E	A.C., 3 ph.	4,500	936	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	10.11.24
Elliminyt ..	S/W	(See Colac)§		..	..	..	..	..	..	..	..	..	1.7.24
Ellinbank ..	Gipps.	A.C., 1 ph.	160	22	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.9.36
Eltham ..	E/M	A.C., 1 ph.	681	175	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	12.8.26
Emerald ..	E/M	A.C., 1 ph.	267	87	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	7.8.34
Epping ..	E/M	A.C., 1 ph.	126	38	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.7.36

APPENDIX No. 5—*continued.*

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

Centre.	Branch.	System of Supply Single-phase 230–460-V. Three-phase 230–400-V.	Population.	Number of Consumers.	Residential Supplies. Lighting, Power, Heating and Cooking (Two-part Tariff). Service Charge per Room per Month.	Residential Supplies. Lighting, Power, Heating and Cooking (Two-part Tariff). Charge per kWh.	Commercial and Industrial Supplies. (See Note 6, page 59, re Cooking (Flat Tariff.) Lighting (Block Tariff). Charge per kWh. Commencing at—	Commercial and Industrial Supplies. (See Note 6, page 59, re Cooking (Flat Tariff.) Power and Heating (Block and Prescribed Hour Tariffs). Option I. Charge per kWh. Commencing at—	Commercial and Industrial Supplies. (See Note 6, page 59, re Cooking (Flat Tariff.) Power and Heating (Block and Prescribed Hour Tariffs). Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Commercial and Industrial Supplies. (See Note 6, page 59, re Cooking (Flat Tariff.) All Purposes (Block and Prescribed Hour Tariffs). Option I. Charge per kWh. Commencing at—	Commercial and Industrial Supplies. (See Note 6, page 59, re Cooking (Flat Tariff.) All Purposes (Block and Prescribed Hour Tariffs). Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Residential, Commercial and Industrial Supplies. Water Heating (Prescribed Hour Tariff). Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m Sundays).	Date Supply First Undertaken by Commission.
					s. d.	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	
Euroa ..	N/E	A.C., 3 ph.	2,500	462	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	20.3.28
Forny Creek ..	E/M	A.C., 1 ph.	131	28	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	2.9.27
Foster ..	Gipps.	A.C., 3 ph. and 1 ph.	650	122	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	30.4.38
Frankston ..	E/M	A.C., 3 ph. and 1 ph.	4,769	1,369	1 2	1·25	7·5	4·0	0·35	7·5	0·35	0·5	21.2.28
Gainsborough ..	Gipps.	A.C., 1 ph.	120	18	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	28.9.36
Garfield ..	Gipps.	A.C., 1 ph.	400	60	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.8.29
Garvoc ..	S/W	A.C., 1 ph.*	150	12	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	25.9.37
Geelong West ..	Geel.	(See Geelong—under Provincial Cities)					..	..	..	..	..	..	1.9.30
Girgarre ..	N/E	A.C., 3 ph.	80	13	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	19.5.38
Gisborne ..	C'maine.	A.C., 3 ph. and 1 ph.	915	132	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.10.28
Glengarry ..	Gipps.	A.C., 3 ph. and 1 ph.	140	30	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.8.28
Glenormiston ..	S/W	A.C., 3 ph. and 1 ph.	100	36	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	10.9.29
Glen Waverley	E/M	A.C., 1 ph.	350	41	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.6.28
Golden Square	Bend.	(See Bendigo—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Gnotuk ..	S/W	A.C., 1 ph.	120	14	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	—.3.36
Grahamvale ..	N/E	(See Shepparton East)§			..	..	..	..	..	..	..	..	20 7.37
Greensborough	E/M	A.C., 3 ph.	760	190	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	23.3.26
Grovedale ..	Geel.	(See Geelong—under Provincial Cities)					..	..	..	..	..	..	1.9.30
Hallam ..	E/M	A.C., 1 ph.	108	9	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	27.8.37
Harcourt ..	C'maine.	A.C., 3 ph.	420	37	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.4.33
Harrisfield ..	E/M	A.C., 1 ph.	257	18	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	22.10.35
Hastings ..	E/M	A.C., 1 ph.	509	93	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	28.3.27
Haunted Hills ..	Gipps.	A.C., 1 ph.	300	52	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	18.9.36
Hazelwood ..	Gipps.	A.C., 1 ph.	150	48	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.9.36
Hazelwood North	Gipps.	A.C., 1 ph.	50	10	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	21.12.37
Healesville ..	E/M	A.C., 3 ph. and 1 ph.	1,746	537	1 4	1·5	8·5	4·0	0·35	8·5	0·35	0·5	1.4.33
Heathmont ..	E/M	A.C., 1 ph.	75	16	1 0	1·25	7·0	3·0	0·35	7·5	0·35	0·5	25.3.37
Heyfield ..	Gipps.	A.C., 3 ph. and 1 ph.	850	162	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.9.24
Highton ..	Geel.	(See Geelong—under Provincial Cities)					..	..	..	..	..	..	1.9.30
Hillside ..	Gipps.	A.C., 1 ph.	50	7	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	29.5.36
Inverloch ..	Gipps.	A.C., 1 ph.	480	92	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.10.34
Irrewarra ..	S/W	A.C., 1 ph.	150	4	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.2.26
Johnsonville ..	Gipps.	A.C., 1 ph.	120	26	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.1.36
Jumbunna ..	Gipps.	A.C., 1 ph.	400	39	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.10.30
Kalimna Point	Gipps.	A.C., 1 ph.	120	12	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	6.12.28
Kallista ..	E/M	A.C., 1 ph.	189	48	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	19.8.27
Kalorama ..	E/M	A.C., 1 ph.	211	40	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	31.5.34
Kangaroo Flat	Bend.	(See Bendigo—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Kardella ..	Gipps.	A.C., 1 ph.	50	5	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.9.36
Keilor ..	C'maine.	A.C., 1 ph.	260	31	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	21.11.35
Killarney ..	S/W	A.C., 1 ph.	80	11	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.5.35
Kilsyth ..	E/M	A.C., 1 ph.	145	36	1 0	1·25	7·0	3·0	0·35	7·5	0·35	0·5	1.4.25
Kolora ..	S/W	A.C., 3 ph. and 1 ph.	70	17	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	21.3.25
Kongwak ..	Gipps.	A.C., 3 ph. and 1 ph.	150	41	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	10.10.30
Koo-wee-rup ..	Gipps.	A.C., 3 ph. and 1 ph.	650	141	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	31.7.35
Koroit ..	S/W	A.C., 3 ph.	1,200	216	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.12.28
Korumburra ..	Gipps.	A.C., 3 ph. and 1 ph.	3,000	583	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.12.24
Kyabram ..	N/E	A.C., 3 ph.	1,800	513	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.12.26
Kyneton ..	C'maine.	A.C., 3 ph.	3,525	761	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	1.10.29
Lakes Entrance	Gipps.	A.C., 1 ph.	950	154	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	19.12.28
Lancaster ..	N/E	A.C., 1 ph.	100	7	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	—.6.35
Lancefield ..	C'maine.	A.C., 3 ph. and 1 ph.	610	99	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	27.3.29
Lang Lang ..	Gipps.	A.C., 3 ph. and 1 ph.	800	111	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	30.8.36
Lara	Geel.	(See Geelong—under Provincial Cities)					..	..	..	..	..	..	1.9.30
Lara Lake ..	Geel.	(See Geelong—under Provincial Cities)					..	..	..	..	..	..	1.9.30

APPENDIX No. 5—*continued.*

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

Centre.	Branch.	System of Supply Single-phase 230–460 V. Three-phase 230–400 V.	Population.	Number of Consumers.	Residential Supplies. Lighting, Power, Heating and Cooking (Two-part Tariff). Service Charge per Room per Month.	Residential Supplies. Lighting, Power, Heating and Cooking (Two-part Tariff). Charge per kWh.	Commercial and Industrial Supplies. (See Note 6, page 59, re Cooking (Flat Tariff.) Lighting (Block Tariff). Charge per kWh. Commencing at—	Power and Heating (Block and Prescribed Hour Tariffs). Option I. Charge per kWh. Commencing at—	Power and Heating (Block and Prescribed Hour Tariffs). Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	All Purposes (Block and Prescribed Hour Tariffs). Option I. Charge per kWh. Commencing at—	All Purposes (Block and Prescribed Hour Tariffs). Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Residential Commercial and Industrial Supplies. Water Heating (Prescribed Hour Tariff). Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m. Sundays).	Date Supply First Undertaken by Commission.
					s. d.	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	
Learmonth ..	Ball.	A.C., 3 ph. and 1 ph.	250	46	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	19.3.38
Leongatha ..	Gipps.	A.C., 3 ph. and 1 ph.	2,000	530	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	15.2.25
Leopold ..	Geel.	(See Drysdale)	..	..	..	..	..	..	..	..	..	..	13.2.24
Lilydale ..	E/M	A.C., 3 ph. and 1 ph.	1,241	366	1 4	1·5	8·5	4·0	0·35	8·5	0·35	0·5	1.4.25
Lindenow ..	Gipps.	A.C., 1 ph.	400	75	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	6.4.35
Lismore ..	S/W	A.C., 1 ph.	450	51	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	26.4.38
Lismore Rural	S/W	A.C., 1 ph.*	400	34	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	26.4.38
Loch	Gipps.	A.C., 1 ph.	350	88	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	18.8.30
Lockwood ..	E/M	A.C., 1 ph.	160	40	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.12.36
Longford ..	Gipps.	A.C., 3 ph. and 1 ph.	50	5	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	8.3.35
Long Gully ..	Bend.	(See Bendigo—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Longwarry ..	Gipps.	A.C., 3 ph. and 1 ph.	350	72	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	11.10.28
Lorne ..	S/W	A.C., 3 ph. and 1 ph.	400	231	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.12.36
Lorne Rural ..	S/W	A.C., 1 ph.	200	3	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.12.36
Lower Ferntree Gully	E/M	A.C., 3 ph. and 1 ph.	737	144	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	24.8.25
Lower Plenty ..	E/M	A.C., 1 ph.	119	22	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	13.3.28
Lucknow ..	Gipps.	A.C., 3 ph.	150	20	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	—.8.27
Lyndhurst ..	E/M	A.C., 3 ph.	158	4	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	19.1.38
Lysterfield ..	E/M	A.C., 3 ph. and 1 ph.	100	10	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	17.7.37
Macedon ..	C'maine.	A.C., 3 ph. and 1 ph.	1,340	233	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.6.29
Maffra ..	Gipps.	A.C., 3 ph. and 1 ph.	2,600	567	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.9.24
Maldon ..	C'maine.	A.C., 3 ph. and 1 ph.	850	106	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	20.4.37
Malmsbury ..	C'maine.	A.C., 1 ph.	536	24	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	22.12.37
Mansfield ..	N/E	A.C., 1 ph.	670	238	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.6.28
Mardan ..	Gipps.	A.C., 1 ph.	100	18	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	31.7.36
Maryborough ..	C'maine.	A.C., 3 ph.	6,000	1,246	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	1.10.37
Meeniyan ..	Gipps.	A.C., 1 ph.	300	75	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.9.36
Mernda ..	E/M	A.C., 1 ph.	220	17	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	28.9.37
Merrigum ..	N/E	A.C., 3 ph.	250	69	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	22.2.27
Metung ..	Gipps.	A.C., 1 ph.	110	24	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.12.36
Mirboo North ..	Gipps.	A.C., 3 ph. and 1 ph.	600	148	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.10.24
Moe	Gipps.	A.C., 3 ph. and 1 ph.	1,000	271	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	23.9.23
Monbulk ..	E/M	A.C., 1 ph.	275	89	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	30.11.36
Monegeeta ..	C'maine.	A.C., 1 ph.	62	12	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	3.5.29
Monomeith ..	Gipps.	A.C., 1 ph.	70	17	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	17.1.36
Montmorency ..	E/M	A.C., 1 ph.	383	105	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	11.5.26
Montrose ..	E/M	A.C., 3 ph. and 1 ph.	325	78	1 0	1·25	7·0	3·0	0·35	7·5	0·35	0·5	1.4.25
Moolap ..	Geel.	(See Drysdale)	..	..	..	..	..	..	..	..	..	..	30.1.25
Mooroodue ..	E/M	A.C., 3 ph.	23	6	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	2.3.25
Mooroolbark ..	E/M	A.C., 1 ph.	54	10	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	16.9.36
Mooroopna ..	N/E	A.C., 3 ph.	1,500	254	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.10.26
Morang South ..	E/M	A.C., 1 ph.	230	12	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	28.9.37
Mornington ..	E/M	A.C., 3 ph. and 1 ph.	2,232	687	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	1.8.30
Mortlake ..	S/W	A.C., 3 ph.	850	251	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.5.24
Morwell ..	Gipps.	A.C., 3 ph. and 1 ph.	1,850	424	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.4.26
Morwell Bridge	Gipps.	A.C., 1 ph.	200	42	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	26.11.28
Mossiface ..	Gipps.	A.C., 1 ph.	160	9	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.10.30
Moyarra ..	Gipps.	A.C., 1 ph.	40	5	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	26.6.30
Moyne View ..	S/W	A.C., 1 ph.*	30	16	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	27.5.37
Mt. Dandenong	E/M	A.C., 1 ph.	130	77	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	20.6.33

APPENDIX No. 5—*continued.*

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

Centre.	Branch.	System of Supply Single-phase 230-460V. Three-phase 230-400V.	Population.	Number of Consumers.	Residential Supplies. Lighting, Power, Heating and Cooking (Two-part Tariff). Service Charge per Room per Month.	Residential Supplies. Lighting, Power, Heating and Cooking (Two-part Tariff). Charge per kWh.	Commercial and Industrial Supplies. (See Note 6, page 59, re Cooking (Flat Tariff.) Lighting (Block Tariff). Charge per kWh. Commencing at—	Power and Heating (Block and Prescribed Hour Tariffs). Option I. Charge per kWh. Commencing at—	Power and Heating (Block and Prescribed Hour Tariffs). Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	All Purposes (Block and Prescribed Hour Tariffs). Option I. Charge per kWh. Commencing at—	All Purposes (Block and Prescribed Hour Tariffs). Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Residential, Commercial and Industrial Supplies. Water Heating (Prescribed Hour Tariff). Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m. Sundays).	Date Supply First Undertaken by Commission.
					s. d.	d.	d.	d.	d.	d.	d.	d.	
Mt. Eliza ..	E/M	A.C., 3 ph. and 1 ph.	452	145	1 2	1·25	7·5	4·0	0·35	7·5	0·35	0·5	21.2.28
Mt. Evelyn ..	E/M	A.C., 1 ph.	348	57	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.1.28
Mt. Martha ..	E/M	A.C., 1 ph.	388	114	1 4	1·5	8·5	4·0	0·35	8·5	0·35	0·5	1.8.30
Mt. Pleasant ..	Ball.	(See Ballarat—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Mt. Waverley ..	E/M	A.C., 1 ph.	210	36	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.6.28
Myrtlebank ..	Gipps.	A.C., 1 ph.	30	4	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	3.3.38
Nalangil ..	S/W	A.C., 1 ph.	60	22	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	19.12.24
Nar-Nar-Goon ..	Gipps.	A.C., 1 ph.	200	43	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.5.34
Narre Warren ..	E/M	A.C., 1 ph.	120	24	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	13.11.28
Nathalia ..	N/E	A.C., 3 ph.	900	199	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.10.31
Nayook ..	Gipps.	A.C., 1 ph.	80	14	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.1.35
Neerim ..	Gipps.	A.C., 1 ph.	170	26	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.1.35
Neerim East ..	Gipps.	A.C., 1 ph.	90	17	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	21.12.36
Neerim Junction	Gipps.	A.C., 1 ph.	150	31	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	3.5.35
Neerim North ..	Gipps.	A.C., 1 ph.	50	17	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	11.4.38
Neerim South ..	Gipps.	A.C., 1 ph.	450	100	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.1.35
New Gisborne ..	C'maine.	A.C., 1 ph.	206	26	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.3.29
Newry ..	Gipps.	A.C., 3 ph. and 1 ph.	300	59	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	25.10.26
Newstead ..	C'maine.	A.C., 3 ph.	480	67	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	20.4.37
Newtown ..	Geel.	(See Geelong—under Provincial Cities)					..	..	..	..	..	..	1.9.30
Nicholson ..	Gipps.	A.C., 1 ph.	80	3	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	12.12.34
Nilma ..	Gipps.	A.C., 1 ph.	180	44	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.12.27
Noble Park ..	E/M	A.C., 3 ph.	1,394	168	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	5.12.24
Noojee ..	Gipps.	A.C., 1 ph.	210	36	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.1.35
Noorat ..	S/W	A.C., 3 ph.	360	84	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	5.12.24
North Geelong ..	Geel.	(See Geelong—under Provincial Cities)					..	..	..	..	..	..	1.9.30
North Shore ..	Geel.	(See Geelong—under Provincial Cities)					..	..	..	..	..	..	1.9.30
Notting Hill ..	E/M	A.C., 1 ph.	195	23	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	21.7.27
Numurkah ..	N/E	A.C., 3 ph.	1,400	374	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.10.31
Nyora ..	Gipps.	A.C., 1 ph.	200	51	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.10.35
Ocean Grove ..	Geel.	A.C., 1 ph.	100	87	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	27.9.24
Officer ..	E/M	A.C., 1 ph.	170	25	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	12.4.28
Olinda ..	E/M	A.C., 1 ph.	436	140	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	30.9.27
Orrvale ..	N/E	(See Shepparton East) §			..	..	..	..	..	..	..	..	20.2.36
Pakenham ..	E/M	A.C., 1 ph.	550	118	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	18.6.28
Panmure ..	S/W	A.C., 1 ph.*	200	12	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	3.9.37
Paynesville ..	Gipps.	A.C., 3 ph. and 1 ph.	450	49	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	25.2.38
Pirron Yallock ..	S/W	A.C., 1 ph.	50	7	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	21.12.36
Point Lonsdale	Geel.	A.C., 1 ph.	250	149	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	30.12.23
Pomborneit ..	S/W	A.C., 1 ph.	190	32	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.9.26
Poowong ..	Gipps.	A.C., 1 ph.	350	84	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	11.9.30
Portarlington ..	Geel.	A.C., 1 ph.	600	121	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	27.2.24
Port Fairy ..	S/W	A.C., 3 ph. and 1 ph.	1,800	379	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	21.12.28
Port Fairy North	S/W	(See Port Fairy)	..	..	..	..	..	..	..	..	..	..	—.7.36
Port Fairy Rural	S/W	A.C., 1 ph.*	600	21	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	10.11.30
Portsea ..	E/M	A.C., 3 ph.	460	132	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.10.27
Quarry Hill ..	Bend.	(See Bendigo—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Queenscliff ..	Geel.	A.C., 3 ph.	2,950	513	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	30.12.23
Red Hill ..	E/M	A.C., 1 ph.	388	57	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	30.6.37
Riddell ..	C'maine.	A.C., 1 ph.	310	39	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	7.3.29
Ringwood ..	E/M	A.C., 3 ph. and 1 ph.	3,355	751	1 0	1·25	7·0	3·0	0·35	7·5	0·35	0·5	1.4.25
Rochester ..	N/E	A.C., 3 ph.	1,500	390	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.8.35
Rokeby ..	Gipps.	A.C., 3 ph. and 1 ph.	50	3	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	4.4.35
Romsey ..	C'maine.	A.C., 3 ph. and 1 ph.	620	121	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	19.3.29
Rosebrook ..	S/W	A.C., 1 ph.*	150	26	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	30.9.36
Rosebud ..	E/M	A.C., 3 ph. and 1 ph.	1,277	344	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	8.12.27
Rosedale ..	Gipps.	A.C., 1 ph.	400	77	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.8.27
Rubicon ..	N/E	A.C., 1 ph.	50	3	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	4.9.27

Appendix No. 5—*continued.*

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

Centre.	Branch.	System of Supply Single-phase 230–460V. Three-phase 230 400V.	Population.	Number of Consumers.	Residential Supplies. Lighting, Power, Heating and Cooking (Two-part Tariff). Service Charge per Room per Month.	Residential Supplies. Lighting, Power, Heating and Cooking (Two-part Tariff). Charge per kWh.	Commercial and Industrial Supplies. (See Note 6, page 59, re Cooking (Flat Tariff.) Lighting (Block Tariff). Charge per kWh. Commencing at—	Power and Heating (Block and Prescribed Hour Tariffs). Option I. Charge per kWh. Commencing at—	Power and Heating (Block and Prescribed Hour Tariffs). Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	All Purposes (Block and Prescribed Hour Tariffs). Option I. Charge per kWh. Commencing at—	All Purposes (Block and Prescribed Hour Tariffs). Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Residential, Commercial, and Industrial Supplies. Water Heating (Prescribed Hour Tariff). Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m. Sundays).	Date Supply First Undertaken by Commission.
					s. d.	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	
Ruby	Gipps.	A.C., 1 ph.	70	18	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	19.4.28
Rutherglen ..	N/E	A.C., 3 ph.	1,200	304	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	15.10.26
Rye	E/M	A.C., 1 ph.	234	59	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	16.12.27
Sale	Gipps.	A.C., 3 ph. and 1 ph.	4,650	1,087	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	1.7.24
Sassafras ..	E/M	A.C., 3 ph. and 1 ph.	564	167	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	9.7.27
Scoresby ..	E/M	A.C., 1 ph.	76	10	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.9.37
Seaford ..	E/M	A.C., 3 ph. and 1 ph.	956	267	1 2	1·25	7·5	4·0	0·35	7·5	0·35	0·5	21.2.28
Sebastopol ..	Ball.	(See Ballarat—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Selby ..	E/M	A.C., 1 ph.	69	17	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	12.12.35
Shepparton ..	N/E	A.C., 3 ph.	6,600	1,620	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	1.1.25
Shepparton East	N/E	A.C., 1 ph.	1,000	149	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	25.2.36
Sherbrooke ..	E/M	A.C., 1 ph.	157	42	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	29.7.27
Silvan ..	E/M	A.C., 3 ph. and 1 ph.	208	28	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	13.6.28
Smeaton ..	Ball.	A.C., 3 ph. and 1 ph.	250	34	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	16.4.38
Somers ..	E/M	A.C., 1 ph.	192	46	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.12.35
Somerville ..	E/M	A.C., 3 ph. and 1 ph.	360	76	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	19.12.26
Sorrento ..	E/M	A.C., 3 ph. and 1 ph.	1,271	376	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.10.27
South Belgrave	E/M	A.C., 1 ph.	120	8	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	17.2.37
South Gisborne	C'maine.	(See Gisborne)‡			..	..	..	..	..	..	..	..	1.5.37
Springhurst ..	N/E	A.C., 3 ph.	150	40	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	6.9.26
Springvale ..	E/M	A.C., 3 ph. and 1 ph.	2,100	409	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	5.12.24
St. Albans ..	Geel.	(See Geelong—under Provincial Cities)					..	..	..	..	..	..	1.9.30
St. Albans ..	C'maine.	A.C., 1 ph.	660	94	1 4	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.2.30
Stanhope ..	N/E	A.C., 3 ph.	300	56	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.6.38
Stoneyford ..	S/W	A.C., 1 ph.*	100	14	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	20.12.37
Stony Creek ..	Gipps.	A.C., 1 ph.	100	8	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.9.36
Stratford ..	Gipps.	A.C., 3 ph. and 1 ph.	880	154	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	20.12.26
Strathallen ..	N/E	A.C., 1 ph.	25	2	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	5.11.35
Strathfieldsaye	Bend.	(See Bendigo—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Strathmerton ..	N/E	A.C., 1 ph.	150	22	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	—.2.35
Sunbury ..	C'maine.	A.C., 3 ph.	1,070	214	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.5.26
Swan Marsh ..	S/W	A.C., 1 ph.*	50	23	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	—.6.37
Swan Reach ..	Gipps.	A.C., 1 ph.	220	19	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	11.7.30
Tallygaroopna	N/E	A.C., 1 ph.	200	14	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	22.10.33
Tally Ho ..	E/M	A.C., 3 ph.	50	18	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.3.28
Tambo Upper ..	Gipps.	A.C., 1 ph.	110	8	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.12.37
Tangil South ..	Gipps.	A.C., 1 ph.	100	9	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	27.5.37
Tatura ..	N/E	A.C., 3 ph.	1,300	281	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.11.26
Tecoma ..	E/M	(See Belgrave)			..	..	..	..	..	..	..	..	3.9.28
Terang ..	S/W	A.C., 3 ph.	2,400	555	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	7.3.24
Terang Rural ..	S/W	A.C., 3 ph. and 1 ph.	500	112	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.1.36
Thomastown ..	E/M	A.C., 3 ph.	145	30	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.6.28
Thornton ..	N/E	A.C., 1 ph.	150	58	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	19.7.27
Thorpdale ..	Gipps.	A.C., 1 ph.	200	35	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	23.12.37
Tinamba ..	Gipps.	A.C., 1 ph.	360	66	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	11.7.28
Tongala ..	N/E	A.C., 3 ph.	350	141	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	12.9.26
Toongabbie ..	Gipps.	A.C., 1 ph.	150	23	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	11.3.29
Toora ..	Gipps.	A.C., 3 ph. and 1 ph.	450	125	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	10.5.38
Tooradin ..	Gipps.	A.C., 1 ph.	180	41	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.1.37
Torquay ..	Geel.	A.C., 3 ph.	180	185	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.9.31
Trafalgar ..	Gipps.	A.C., 3 ph. and 1 ph.	1,400	372	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	16.10.23
Traralgon ..	Gipps.	A.C., 3 ph. and 1 ph.	2,700	665	1 4	1·5	8·0	4·5	0·35	8·5	0·35	0·5	24.11.23
Traralgon South	Gipps.	A.C., 1 ph.	120	21	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	12.8.37

APPENDIX No. 5—*continued.*

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

Centre.	Branch.	System of Supply Single-phase 230–460-V. Three-phase 230–400-V.	Population.	Number of Consumers.	Residential Supplies.		Commercial and Industrial Supplies. (See Note 6, page 59, re Cooking (Flat Tariff.)					Residential, Commercial and Industrial Supplies.	Date Supply First Undertaken by Commission.
					Lighting, Power, Heating and Cooking (Two-part Tariff).		Lighting (Block Tariff).	Power and Heating (Block and Prescribed Hour Tariffs).		All Purposes (Block and Prescribed Hour Tariffs).		Water Heating (Prescribed Hour Tariff).	
					Service Charge per Room per Month.	Charge per kWh.	Charge per kWh. Commencing at—	Option I. Charge per kWh. Commencing at—	Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Option I. Charge per kWh. Commencing at—	Option II. Charge per kWh. between 10 p.m. and 6 a.m. (During Other Hours Option I. Rates Apply).	Charge per kWh. between 10 p.m. and 6 a.m. (10 a.m. Sundays).	
					s. d.	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	*d.*	
Tremont ..	E/M	A.C., 1 ph.	392	30	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	2.9.27
Tyabb ..	E/M	A.C., 1 ph.	248	38	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	20.1.28
Tyers ..	Gipps.	A.C., 1 ph.	250	66	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.10.23
Tynong ..	Gipps.	A.C., 1 ph.	250	42	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	14.1.29
Upper Beaconsfield	E/M	A.C., 1 ph.	310	48	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	—.8.34
Upper Ferntree Gully	E/M	A.C., 3 ph. and 1 ph.	979	157	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	24.8.25
Upper Maffra West	Gipps.	A.C., 1 ph.	300	30	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	6.10.37
Upwey ..	E/M	A.C., 3 ph. and 1 ph.	1,238	264	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	24.8.25
Valencia Creek	Gipps.	A.C., 1 ph.	100	10	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	11.6.38
Violet Town ..	N/E	A.C., 3 ph.	600	116	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	2.3.36
Wahgunyah ..	N/E	A.C., 3 ph.	500	84	1 6	1·5	9·0	5·0	0·35	9·5	0·35	0·5	1.2.26
Walpa ..	Gipps.	A.C., 1 ph.	40	10	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	16.5.35
Wangaratta ..	N/E	A.C., 3 ph.	5,000	1,149	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	12.3.27
Wangaratta North	N/E	A.C., 3 ph. and 1 ph.	20	3	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	20.5.36
Wangaratta South	N/E	A.C., 3 ph.	50	4	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	3.5.38
Wantirna ..	E/M	A.C., 3 ph.	80	7	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.2.28
Warncoort ..	S/W	A.C., 1 ph.	30	5	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	26.8.29
Warragul ..	Gipps.	A.C., 3 ph. and 1 ph.	2,950	791	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	1.12.30
Warrandyte ..	E/M	A.C., 1 ph.	288	71	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	21.12.35
Warrion ..	S/W	A.C., 3 ph. and 1 ph.	75	27	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	18.8.24
Warrnambool ..	S/W	A.C., 3 ph.	9,400	1,995	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	30.12.23
Warrnambool Rural	S/W	A.C., 1 ph.	120	13	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	9.1.36
Watsonia ..	E/M	A.C., 3 ph.	83	28	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.3.26
Weerite ..	S/W	A.C., 3 ph.	30	7	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	8.6.28
Wendouree ..	Ball.	(See Ballarat—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Werribee ..	Metro.	A.C., 3 ph. and 1 ph.	2,713	571	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	10.4.24
Werribee South	Metro.	A.C., 3 ph. and 1 ph.	787	35	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	24.11.36
Westbury ..	Gipps.	A.C., 1 ph.	60	4	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	27.5.37
Wheeler's Hill ..	E/M	A.C., 1 ph.	120	15	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.2.26
White Hills ..	Bend.	(See Bendigo—under Provincial Cities)					..	..	..	..	..	..	1.7.34
Whittlesea ..	E/M	A.C., 1 ph.	360	54	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	28.9.37
Winchelsea ..	S/W	A.C., 1 ph.	560	97	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	30.6.24
Wiseleigh ..	Gipps.	A.C., 1 ph.	130	7	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	18.6.30
Wodonga ..	N/E	A.C., 3 ph.	2,900	453	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.11.33
Wonga Park ..	E/M	A.C., 1 ph.	75	3	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	18.5.38
Woodend ..	C'maine.	A.C., 3 ph. and 1 ph.	1,216	259	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.8.29
Wool Wool ..	S/W	A.C., 3 ph.	30	4	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.10.24
Wunghnu ..	N/E	A.C., 1 ph.	190	16	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	—.10.33
Wy Yung ..	Gipps.	A.C., 3 ph.	20	4	1 3	1·5	7·5	4·0	0·35	7·5	0·35	0·5	—.4.27
Yallock ..	Gipps.	A.C., 1 ph.	80	6	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	25.11.37
Yannathan ..	Gipps.	A.C., 1 ph.	250	61	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	8.2.36
Yan Yean ..	E/M	A.C., 1 ph.	110	13	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	28.9.37
Yarra Glen ..	E/M	A.C., 1 ph.	310	42	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	15.3.34
Yarragon ..	Gipps.	A.C., 3 ph. and 1 ph.	520	122	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	1.11.23
Yarrawonga ..	N/E	A.C., 3 ph.	2,500	545	1 4	1·5	8·5	4·5	0·35	8·5	0·35	0·5	1.8.25
Yering ..	E/M	A.C., 1 ph.	15	6	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	24.2.34
Yeringberg ..	E/M	A.C., 1 ph.	20	7	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	7.7.33
Yinnar ..	Gipps.	A.C., 3 ph. and 1 ph.	450	97	1 6	1·5	9·5	5·0	0·35	9·5	0·35	0·5	28.11.27

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

APPENDIX No. 5—*continued.*

NOTES RELATING TO THE FOREGOING COUNTRY 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).
6. Cooking.—For electricity consumed in connexion with electric cooking, the tariff is 1.5d. per kilowatt-hour. 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.
E/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. * = 230 volt only; † = A.C., 3 ph.; ‡ = A.C., 3 ph. and 1 ph; § = A.C., 1 ph.

APPENDIX No. 5—*continued.*

COUNTRY ELECTRICITY SUPPLY UNDERTAKINGS (MUNICIPAL AND PRIVATE) AT 1st JULY, 1938.

Locality.	Population in Supply Area. (Approx.)	Supply Authority.	System of Supply.	No. of Consumers. (Approx.)		Price per kWh.	
				Light	Power.	Lighting.	Power.
Apollo Bay	800	Apollo Bay E.S. Co. Pty. Ltd.	D.C., 230 v.	108 (total)		1s. 3d. and 1s.	6d. and 2½d.
Ararat	5,300	Ararat Borough Council	A.C., 230–400 v.	1,130 (total)		9d.	3½d. and 2d.
*Aspendale, Chelsea, and Carrum	8,000	Carrum E.S. Co.	A.C., 230–400 v.	2,500 (total)		8d. to 1¼d.	4d. to ·35d.
Avoca	1,500	Avoca E.L. Co. Pty. Ltd.	D.C., 230 v.	210	12	1s. 3d. to 1s.	6d. to 3d.
Bacchus Marsh	1,510	Bacchus Marsh Shire Council	A.C., 230–400 v.	435 (total)		10d. and 9d.	5d. and 4d.
Ballan	600	Ballan E.S. Co. Pty. Ltd.	A.C., 230–400 v.	108 (total)		1s. 3d.	9d.
Beaufort	1,500	Ripon Shire Council	A.C., 230–400 v.	236	13	10d.	5d.
Beechworth	1,850	Beechworth Shire Council	A.C., 230–400 v.	410 (total)		1s.	6d.
Beulah	400	Karkarooc Shire Council	D.C., 230–460 v.	131	6	1s. 3d. and 1s. 1d.	4d.
Birchip	1,000	Birchip E.S. Co. Ltd.	D.C., 230 v.	190	17	1s.	6d. to 4d.
Boort	650	Boort Co-op. Butter and Ice Co.	D.C., 230 v.	201	75	1s. 3d. to 9d.	6d. to 4½d.
Bright	500	Block and Sons Pty. Ltd.	A.C., 230–400 v.	125 (total)		1s. 3d. to 1s.	6d. to 4d.
Broadford	1,000	Broadford Shire Council	D.C., 230 v.	245 (total)		9d.	6d.
Casterton	1,800	Casterton E.S. Co. Pty. Ltd.	D.C., 230 v.	383 (total)		1s.	6d. to 1·1d.
Charlton	1,400	Charlton E. L. & P. Co.	D.C., 230 v.	348	182	1s. to 9d.	4½d.
Cohuna	1,000	Gunbower Co-op. Butter Factory & Trading Co. Ltd.	D.C., 230 v.	240 (total)		1s. to 9d.	6d. to 3d.
Coleraine	1,000	Hamilton E.S. Co. Ltd.	A.C., 230–400 v.	233 (total)		1s. 1d. and 10d.	6d. and 3½d.
——	..	Corindhap Hydraulic G.S. Co. N.L.	A.C., 3 ph.	..	..	No supply to consumers	
Corryong	500	Shire of Upper Murray	A.C., 230–400 v.	165 (total)		1s. 3d.	6d. to 3d.
Daylesford	3,400	Ex. of late M. Pollard	D.C., 230–460 v.	575 (total)		10d.	5d.
Dimboola	1,650	Dimboola Shire Council	D.C., 230–460 v.	450 (total)		1s. to 8d.	6d. to 3d.
Donald	1,700	Donald Shire Council	D.C., 230 v.; A.C., 230 v.	373	19	1s.	6d. to 2¾d.
Doncaster and Templestowe	2,600	Doncaster Shire Council	A.C. 1 ph., 200–400 v.	457	5	7d.	4d. to ·35d.
Edenhope	400	Edenhope E.S. Co. Pty. Ltd.	D.C., 230 v.	52 (total)		1s. 3d.	9d.
Elmore	800	Elmore Elec. L. & P. Co.	D.C., 230 v.	144	45	1s.	6d. and 4d.
Goroke	300	Border Trading and Manufacturing Co. Pty. Ltd.	D.C., 230 v.	31	5	1s. 4d.	6d.
Gunbower	180	Gunbower Co-op. Butter Factory and Trading Co. Ltd.	D.C., 230 v.	30 (total)		1s. 3d.	6d.
Hamilton	6,000	Hamilton E.S. Co. Ltd.	D.C., 230 v.; A.C., 230–400 v.	1,310 (total)		6d. and 5d.	4d. to 1d.
Heathcote	1,250	Melvor Shire Council	D.C., 230 v.	210	15	1s.	6d. to 4d.
Hepburn	500	Hepburn Springs E.S. Co. Ltd.	A.C., 230–400 v.	189	..	1s. to 9d.	4d.
Hopetoun	800	Karkarooc Shire Council	D.C., 230 v.	182	7	10d.	4d.
Horsham	5,400	Horsham Borough Council	D.C., 230–460 v.; A.C., 230 v.	1,313 (total)		9d. to 6d.	4d. to 1¼d.
Inglewood	1,100	Inglewood Borough Council	D.C., 230 v.	198	12	1s. to 9d.	6d. to 3d.
Jeparit	850	Block & Sons Pty. Ltd.	D.C., 230 v.	242 (total)		1s.	6d.
Kaniva	1,200	Lawloit Shire Council	A.C., 230–400 v.	131	54	1s. 2d.	6d.
Kerang	2,800	Kerang Shire Council	A.C., 230–400 v.	532	141	9d.	5d.
Kilmore	1,000	Kilmore Shire Council	D.C., 230 v.	210 (total)		10d. to 6d.	4d.
Koondrook	600	Kerang Shire Council	A.C., 230–400 v.	96 (total)		1s. 3d.	9d. and 6d.
Korong Vale	550	Korong Shire Council	A.C., 230–400 v.	67	3	1s.	5d.
Lake Boga	250	Swan Hill Shire Council	A.C., 230–400 v.	(Incl. in Swan Hill)		1s. 1d. to 6d.	5d. to 3d.
Manangatang	350	J. Andrews	D.C., 230 v.	50	5	1s. 4d.	9d.
Mildura	14,500	Mildura City Council	A.C., 230–400 v.	2,296	797	City, 7d. to 5¾d.; District, 9½d. to 6¾d.	City — Domestic 2d., Ind. 4·5d., to ·9d. Dist.— Domestic 2·75d. Ind. 4·75d. to 1d.
Minyip	700	Dunmunkle Shire Council	D.C., 230 v.	178	6	1s. 1d.	8d. to 2d.
Myrtleford	700	Block and Sons Pty. Ltd.	A.C., 230–400 v.	165 (total)		1s. 1d. to 9d.	6d. to 4d.
Murrayville	450	Walpeup Shire Council	A.C., 230–400 v.	76 (total)		1s. 3d.	6d. to 3d.
Murchison	650	Waranga Shire Council	A.C., 230–400 v.	120 (total)		is. 3d.	6d. to 2d.
Murtoa	1,240	Dunmunkle Shire Council	D.C., 230 v.	323 (total)		9d.	5d. to 2d.
Nagambie	800	Goulburn Shire Council	D.C., 230–460 v.	156	36	10d.	6d.
Natimuk	550	H. C. Woolmer	A.C., 230–400 v.	100	..	1s. 3d.	6d.
Nhill	1,990	Lowan Shire Council	D.C., 230–460 v.	383	111	10d.	5d. to 2½d.
Nyah	400	Swan Hill Shire Council	A.C., 230–400 v.	(Incl. in Swan Hill)		1s. 1d. to 6d.	5d. to 3d.
Omeo	500	Omeo E.S. & Motor Co. Pty. Ltd.	A.C., 230–400 v.	73	26	1s. 3d.	6d.
Orbost	1,600	Orbost Butter and Produce Co.	D.C., 230 v.	354	8	10d.	5d. to 3d.
Ouyen	1,100	Walpeup Shire Council	D.C., 230 v.	226 (total)		11d.	5d. to 1½d.
Pyramid	550	Gordon Shire Council	A.C., 230–400 v.	70	15	1s. 3d. to 9d.	1s. 3d. and 6d.
Phillip Island	200	Phillip Island Shire Council	A.C., 230–400 v.	89	14	1s. 1½d.	7d.
Portland	2,400	Portland Borough Council	A.C., 230–400 v.	525	25	10d. to 7d.	5d. to 3d.
Quambatook	530	Kerang Shire Council	D.C., 230 v.	123 (total)		1s. 3d. and 1s.	6d. to 4d.
Rainbow	1,000	Rainbow E.L. Co.	D.C., 230 v.	176	4	1s. and 8d.	6d.

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

APPENDIX No. 5—*continued.*

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

Locality.	Population in Supply Area. (Approx.)	Supply Authority.	System of Supply.	No. of Consumers. (Approx.)		Price per kWh	
				Light.	Power.	Lighting.	Power.
Rupanyup ..	600	Dunmunkle Shire Council ..	D.C., 230 v. ..	141	7	1s 1d. ..	8d. to 2d.
Rushworth ..	1,200	Waranga Shire Council	D.C., 230 v. ..	301	(total)	10d. ..	5d. to 2d.
Sea Lake ..	970	Wycheproof Shire Council ..	D.C., 230 v. ..	189	40	1s. 3d. to 9d. ..	6d. to 3d.
Seymour ..	2,250	Seymour Shire Council	A.C., 230–400 v. ..	613	30	10d. ..	4d. to 2d.
Stawell ..	4,500	Stawell Borough Council ..	A.C., 230–400 v. ..	947	3	9d. ..	4d. to 3d.
St. Arnaud ..	3,000	St. Arnaud Borough Council ..	A.C., 230–400 v. ..	703	(total)	11d. to 10d. ..	5d. to 2d.
Swan Hill ..	6,000	Swan Hill Shire Council	A.C., 230–400 v. ..	1,068 (inc. Lake and Nyah, Boga Ultima)	359	Town 1s. 1d. to 3d.	Town 5d. to 1½d.
Tallangatta ..	670	Shire of Towong	A.C., 230–400 v. ..	203	(total)	1s.	5d. to 4d.
Trentham ..	850	Kyneton Shire Council	A.C., 230–400 v. ..	153	(total)	1s. 2d. ..	6d.
Ultima ..	250	Swan Hill Shire Council	A.C., 230–400 v. ..	(inc. in Swan Hill)		1s. 1d. to 6d. ..	5d. to 3d.
Underbool ..	225	A. J. Gloster	D.C., 230 v. ..	31	(total)	1s. 3d. ..	6d.
Warburton ..	1,200	Upper Yarra E.S. Co. Pty. Ltd. ..	A.C., 230–400 v. ..	231	(total)	9d.	4½d.
Warracknabeal	2,800	Warracknabeal E.L. Co. Ltd. ..	A.C., 230–400 v. ..	563	42	10d. ..	6d. to 4d.
Wedderburn ..	1,500	Korong Shire Council	A.C., 230–400 v. ..	143	4	1s.	5d.
Wonthaggi ..	8,240	State Coal Mine	A.C., 415–240 v. ..	1,800	(total)	7d.	3d.
Wycheproof ..	800	Wycheproof Shire Council ..	D.C., 230 v. ..	150	50	1s. 3d. to 9d. ..	6d. to 3d.
Yarram ..	1,200	Yarram H.E. Co.	A.C., 230–400 v. ..	419	(total)	11d. ..	4d. to 1d.
Yea ..	950	Yea Shire Council	A.C., 230–400 v. ..	250	(total)	11d. ..	6d. to 4d.

Total Population (approx.), 123,605. Total Consumers (approx.), 29,771.

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