1950.

VICTORIA.

STATE ELECTRICITY COMMISSION OF VICTORIA.

THIRTY-FIRST ANNUAL REPORT

FOR THE

FINANCIAL YEAR ENDED 30TH JUNE, 1950,

TOGETHER WITH

APPENDICES.

PRESENTED TO PARLIAMENT PURSUANT TO SECTION 35 (*b*) OF STATE ELECTRICITY COMMISSION ACT No. 3775.

By Authority:

J. J. GOURLEY, GOVERNMENT PRINTER, MELBOURNE

No. 28—95/51.

Portion of BOGONG TOWNSHIP

——*Spion Kopje in background.*

(Kiewa Hydro-Electric Project.)

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Appendices

Supplement

STATE ELECTRICITY COMMISSION OF VICTORIA.

FEATURES OF 1949/50 OPERATIONS.

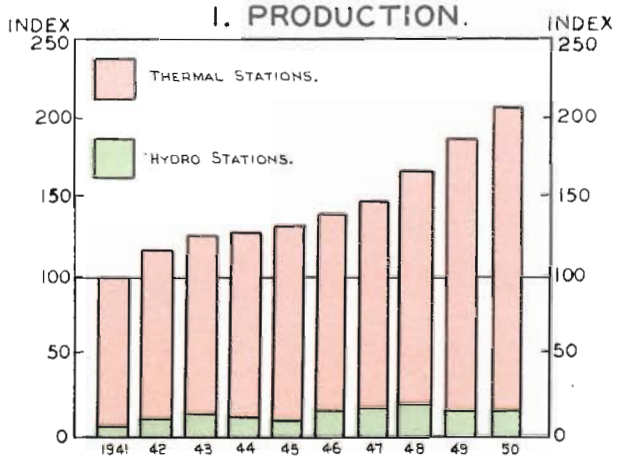
—		1949–50.	1948-49.	Increase or Decrease.	Percentage.
FINANCIAL.					
INCOME—					
Electricity Supply	£	9,446,008	8,129,973	+ 1,316,035	+ 16·2
Briquetting (after Stock Adjustment and less Sales to Works)	£	436,862	300,277	+ 136,585	+ 45·5
Brown Coal (less Sales to Works)	£	244,100	194,995	+ 49,105	+ 25·2
Tramways	£	171,504	147,797	+ 23,707	+ 16·0
Miscellaneous	£	40,183	32,776	+ 7,407	+ 22·6
	£	10,338,657	8,805,818	+ 1,532,839	+ 17·4
EXPENDITURE	£	10,688,025	8,879,517	+ 1,803,508	+ 20·4
LOSS	£	349,368	73,699	+ 275,669	+374·1
TRANSFERS FROM RESERVES	£	100,000	103,000	— 3,000	— 2·9
NET SURPLUS OR DEFICIT	£	D. 249,368	S. 29,301	— 278,669	—
CAPITAL EXPENDITURE—At end of Year	£	61,358,803	47,327,034	+ 14,031,769	+ 29·7
RESERVES—At end of Year	£	18,200,424	17,448,526	+ 751,898	+ 4·3
ELECTRICITY PRODUCTION AND SALES.					
MAXIMUM COINCIDENT DEMAND ON POWER STATIONS (This Year—June 20th)	kW	504,090	436,930	+ 67,160	+ 15·4
ELECTRICITY GENERATED	kWh—millions	2,362·8	2,148·0	+ 214·8	+ 10·0
ELECTRICITY SALES	kWh—millions	1,880·2	1,725·0	+ 155·2	+ 9·0
NUMBER OF CONSUMERS (excluding Bulk Supplies)		391,005	372,135	+ 18,870	+ 5·1
AVERAGE kWh SOLD PER CONSUMER—					
Domestic		1,556	1,370	+ 186	+ 13·6
Industrial		35,550	37,428	— 1,878	— 5·0
Commercial		3,555	3,400	+ 155	+ 4·6
All Consumers (excluding Bulk Supplies)		3,313	3,187	+ 126	+ 4·0
AVERAGE PRICE PER kWh SOLD—					
Domestic	d.	1·554	1·517	+ 0·037	+ 2·4
Industrial	d.	1·041	0·955	+ 0·086	+ 9·0
Commercial	d.	2·148	2·070	+ 0·078	+ 3·8
All Consumers (excluding Bulk Supplies)	d.	1·392	1·310	+ 0·082	+ 6·3
MOTORS CONNECTED—					
Number		96,150	90,896	+ 5,254	+ 5·8
Horse-power		528,618	505,877	+ 22,741	+ 4·5
NUMBER OF FARMS SERVED		15,741	14,419	+ 1,322	+ 9·2
BRIQUETTES—					
Produced	tons	588,564	558,899	+ 29,665	+ 5·3
Sold and used at Power Stations	tons	580,173	583,363	— 3,190	— 0·5
YALLOURN OPEN CUT—					
Brown Coal Won	tons	6,404,059	6,235,611	+ 168,448	+ 2·7
YALLOURN NORTH OPEN CUT—					
Brown Coal Sold	tons	764,911	469,997	+ 294,914	+ 62·8
TRAMWAY PASSENGERS		14,213,525	16,341,546	— 2,128,021	— 13·0

TEN YEAR STATISTICAL REVIEW.

BASE YEAR 1940/41 = 100.

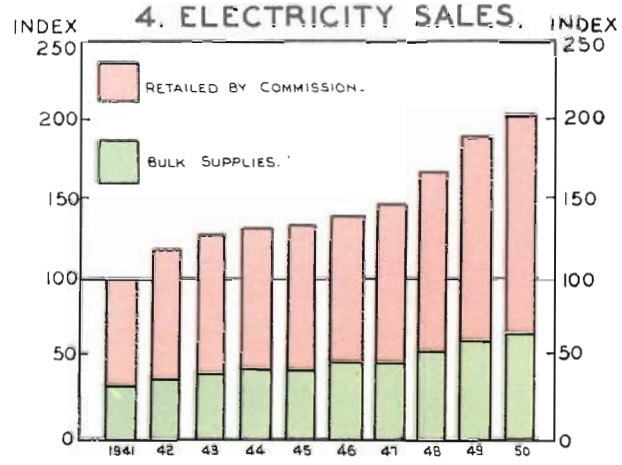
STATISTICS DURING THE PAST FIVE YEARS HAVE BEEN AFFECTED BY ELECTRICITY RESTRICTIONS.

1. PRODUCTION.



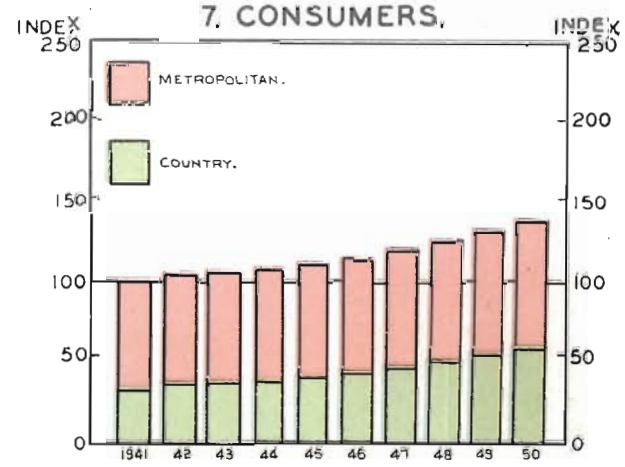
PRODUCTION OF ELECTRICITY (2363 MILLION KWHS IN 1949/50) HAS MORE THAN DOUBLED OVER THE DECADE.

4. ELECTRICITY SALES.



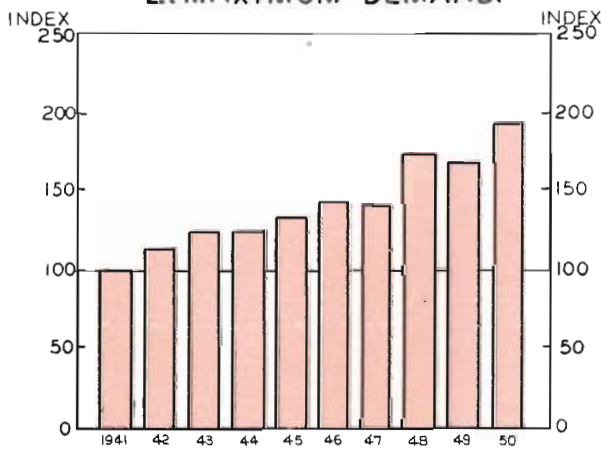
SALES (1880 MILLION KWHS IN 1949/50) INCREASED BY 9%.

7. CONSUMERS.



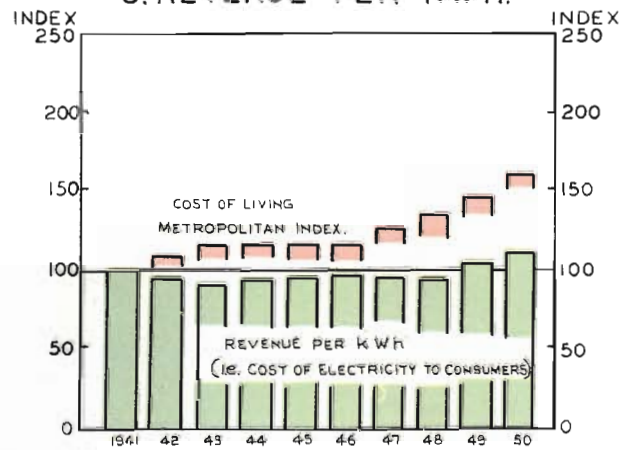
THE NUMBER OF CONSUMERS (391,005 AT 30/6/50) HAS INCREASED STEADILY. DURING THE DECADE COUNTRY CONSUMERS HAVE ALMOST DOUBLED.

2. MAXIMUM DEMAND.



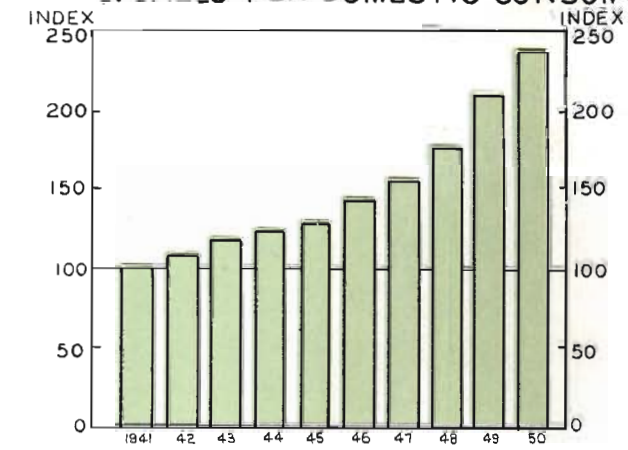
MAXIMUM DEMAND (504,090 KW. 1949/50) HAS ALMOST DOUBLED SINCE 1941. LAST YEAR THE RESTRICTIONS ON USE OF ELECTRICITY WERE MORE SEVERE.

5. REVENUE PER KWH.



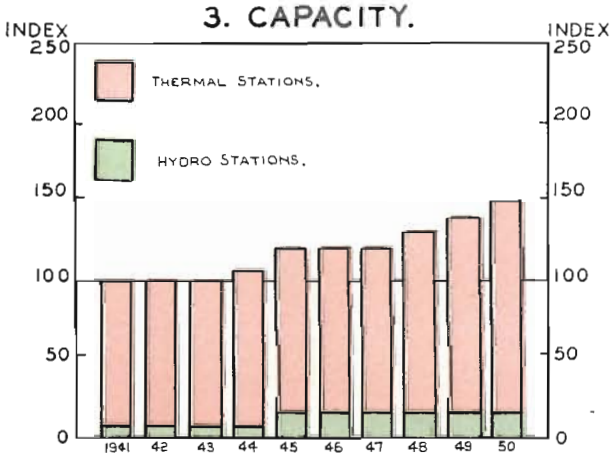
REVENUE PER KWH IS ONLY 10 PER CENT HIGHER THAN TEN YEARS AGO IN MARKED CONTRAST TO THE SUBSTANTIAL INCREASE IN THE GENERAL COST OF LIVING.

8. SALES PER DOMESTIC CONSUMER.



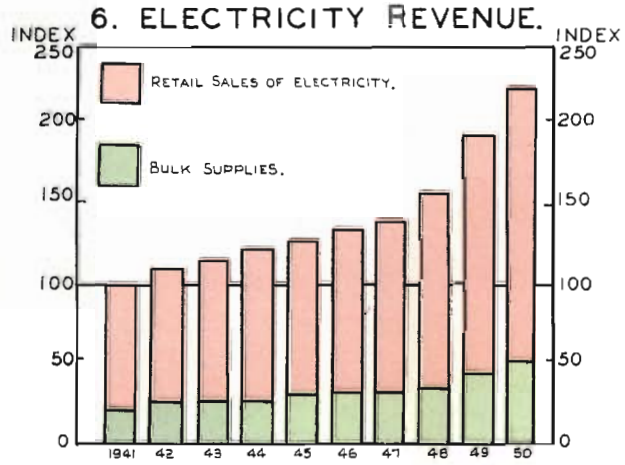
SINCE 1941 CONSUMPTION PER DOMESTIC CONSUMER HAS INCREASED FROM 658 TO 1556 KWHS. THE INCREMENT FOR 1949/50 WAS 186 KWHS.

3. CAPACITY.



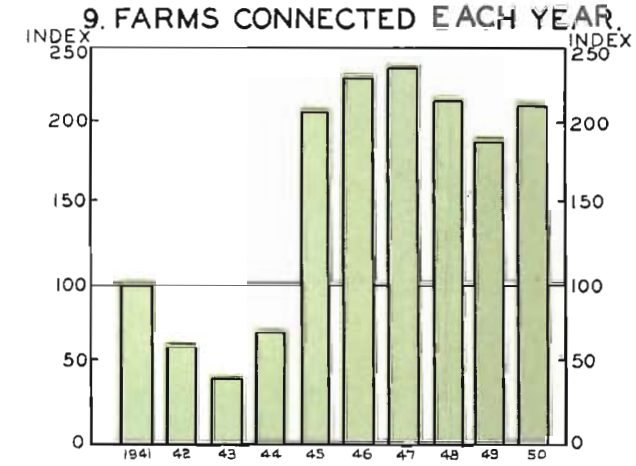
INSTALLED CAPACITY OF GENERATORS (510,452 KW AT 30/6/50) INCREASED BY 30,150 KW. DURING THE YEAR.

6. ELECTRICITY REVENUE.



OVER THE DECADE, REVENUE (£9·4 MILLION IN 1949/50) HAS MORE THAN DOUBLED. RATES HAVE BEEN INCREASED DURING THE LAST 2 YEARS TO MEET RISING COSTS.

9. FARMS CONNECTED EACH YEAR.



FOR THE LAST FOUR YEARS 5371 FARMS WERE CONNECTED COMPARED WITH 2992 FOR THE FOUR YEARS PRIOR TO THE WAR. AT 30TH JUNE 1950 TOTAL FARMS CONNECTED WAS 15,741.

THIRTY-FIRST ANNUAL REPORT.

THE HONOURABLE K. DODGSHUN, 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 Thirty-first Annual Report of the Commission covering the financial year ended 30th June, 1950, together with the Balance-sheet and Profit and Loss Account.

It is pleasing to report substantially increased outputs of electricity, briquettes and brown coal. During the year under review, generating capacity has been increased by 30,000 kW, and plants maintained at satisfactory standards. The maximum demand upon the State system for the first time exceeded 500,000 kW nearly 70,000 kW above 1948-49; nevertheless, some relief occurred in the limited restrictions on the use of electricity. There has been considerable progress with new works, capital expenditure for the year exceeding £14 million. The 18,870 new consumers connected constituted the largest number in any year.

On the other hand, in common with other large undertakings, financial results have been affected seriously by the sharp upward trend of costs.

FINANCIAL.

The increases in labour and material costs, coupled with use of substitute fuels for power generation, are reflected in the additional expenditure of £1,808,508 (20·4 per cent.).

Income from all sources totalled £10,338,657, an increase of £1,532,839 (17·4 per cent.). This increase was due to additional sales and to the revised electricity charges which operated from the 1st October, 1949. The loss on the year's operations was £349,368; this amount was reduced by a transfer of £100,000 from the Rate Stabilisation Reserve, which now has been exhausted.

With the continued upward trend in costs, and the recent Arbitration Court decision to increase the basic wage by £1, it is obvious that increased electricity tariffs, introduced as from the 1st July, 1950, will be inadequate and further increases will be necessary.

The Commission continues to be relieved of the cost above New South Wales' parity price of coal imported from England, South Africa and India. Again from the 1st July, 1950, the revised basis of allocation of engineering and administrative staff salaries and expenses provides for a greater proportion of this cost to be charged to capital, reflecting the considerable expansion of these staffs to keep pace with the huge programme of developmental works under construction. But for the relief thus afforded to operating expenditure, existing and future electricity tariff increases would be markedly greater.

ELECTRICITY SUPPLY.

The overall increase in sales (155 million kWh) reflects a general rapid expansion in the use of electricity. Despite construction setbacks, a record number of consumers (18,870) was connected; of these, 66 per cent. were in extra-metropolitan areas, including 1,322 farms.

ELECTRICITY RESTRICTIONS.

Limited restrictions on the use of electricity were continued during the year.

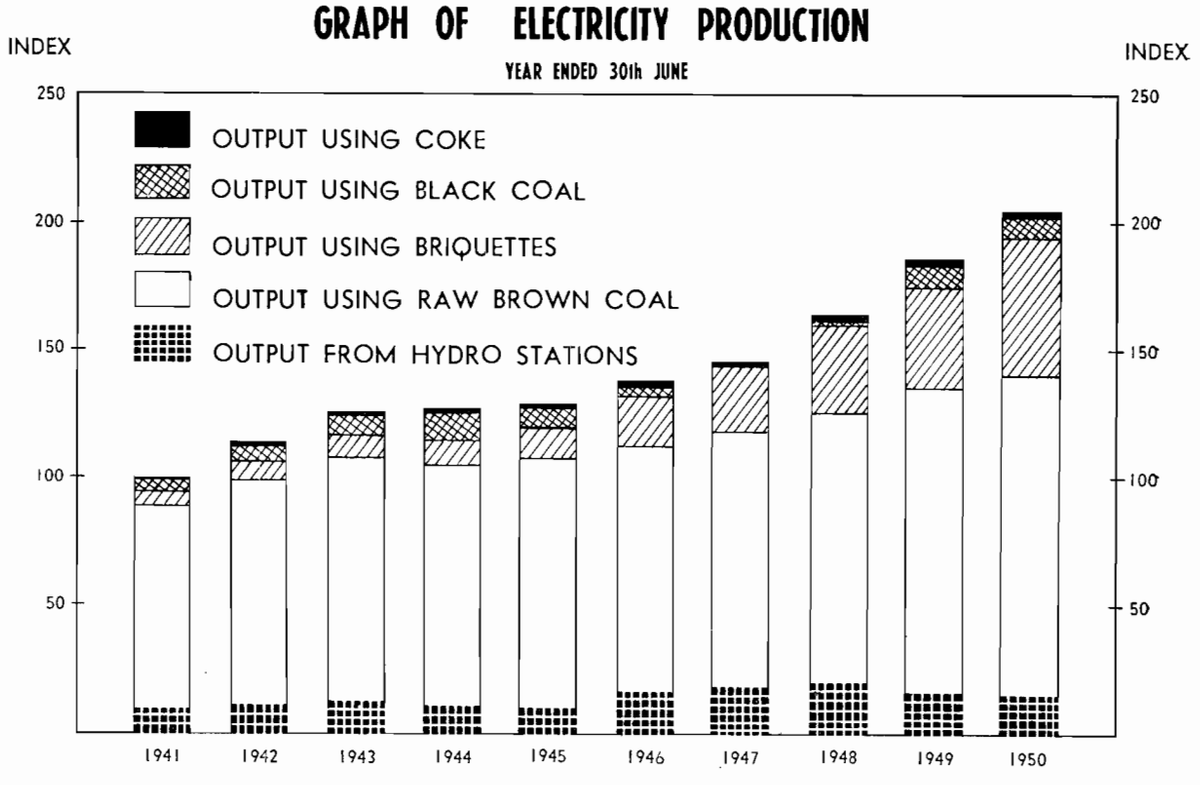
The serious coal strike of July–August, 1949, caused emergency diversion of power station fuel to industries. Consequently, for about five weeks, additional restrictions were necessary.

Otherwise, the generating plants met all demands, although, on six days, overcast and cold conditions caused minor load shedding for periods of 3 to 17 minutes.

The Commission has thanked consumers for their co-operation in the reduction of loading during the peak periods: the response of members of the Victorian Chamber of Manufactures has been particularly gratifying. Large consumers have greatly helped by re-arranging their operations to minimise peak demands. A pamphlet was sent to each consumer explaining the present position and future prospects of electricity supply in Victoria. A copy is included as a supplement to this report.

FUEL SUPPLIES.

Over the last decade the output from the Commission's power stations has more than doubled, but practically the whole of the fuel needed for this increased production has been met from Victoria's own resources—brown coal or briquettes (see accompanying graph).



However, during the war and early post-war years the only practicable extension of the State generating system was the completion of the Newport "C" Power Station (thermal), originally designed for peak load operations. The station now carries a substantial portion of the base load and much greater quantities of fuel are required at Newport. Therefore, special fuel supplies have had to be secured. Black coal from New South Wales is not available, and as the Commission is not permitted to retain its full production of briquettes—25 per cent. of output (143,000 tons) diverted to industry this year—some Newport boilers have been converted, as an emergency measure, to burn raw brown coal (333,000 tons for the year).

The Commission also received 145,000 tons of black coal ordered by the State Government from Great Britain, South Africa and India. This coal was supplied to the Commission at a parity cost with New South Wales coal. Tests are being conducted to determine the suitability of Callide coal (Queensland) for power generation.

MAJOR EXTENSIONS TO GENERATING PLANT.

Installed plant was increased by 30,000 kW during the year. The programme of major works to restore the capacity of the generating system so that unrestricted requirements of consumers can be met is detailed on page 12 of this report. It is expected that these requirements will be overtaken in 1953.

The programme provides for the following principal developments:—

Newport "C" (completion) ..	15,000 kW during 1951.
Richmond	38,000 kW during 1951 and 1952.
Kiewa	92,000 kW during 1952 and 1953.
Yallourn	200,000 kW (instalments of 50,000 kW from 1953).

MISSIONS ABROAD.

Last year reference was made to the mission, led by Mr. E. Bate, M.C., B.Sc., Whit. Schol., A.M.I.E. Aust., then Chief Engineer and now Consultant to the Commission, which visited Great Britain and the Continent to purchase plant and buildings for the first and second Morwell Briquette Factories, involving contracts totalling nearly £9 million. Mr. Bate recently again visited these countries and reports satisfactory progress by manufacturers.

As a result of his report of the position overseas, the Commission has recommended to the Government that orders be placed for the major items of plant required for the third and fourth factories, to enable the project to be progressively developed to its planned output of 2,600,000 tons per annum without delay. Since the close of the year, the Governor in Council has approved of contracts approximating £5½ million being placed for a further two briquette factories, including the associated boiler and power plants.

Mr. W. H. Connolly, B.E.E., B.Com., A.M.I.E.Aust., Assistant to the General Manager, visited Canada, United States, Great Britain, and the Continent to study the latest developments in electricity production and supply.

Other officers have made visits overseas to arrange for migration of skilled staff and the procurement of special items of construction plant.

PROVINCIAL TRAMWAYS.

The adverse financial results of all three provincial tramway systems show an increasingly serious position. For an annual revenue of £171,504 there was incurred a loss of £125,989, and there is no prospect of even slight improvement, because the point has been reached where increased fares will only reduce the use of the trams. It is significant that passenger traffic this year was 13 per cent. lower than that of 1948-49.

In the last two years the tramway losses approximated £¼ million, emphasising that the State is a party to continuation of street transport services which never were economically justified. Until a change is brought about the consumers of electricity throughout the State will have to provide the heavy subsidy necessary for the three tramway systems. But for these losses on tramway operations, the recent increase in charges for electricity to these consumers would have been nearly 20 per cent. less.

In reports to the Government, Mr. H. H. S. Bell, Junior, of the Melbourne & Metropolitan Tramways Board, following his close examination in 1948–49 of the three provincial city transport services, has recommended that their control be vested in a single authority, and that the tramway systems be supplanted by diesel buses at Geelong and by trolley buses at Ballarat and Bendigo.

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ANNUAL ACCOUNTS.

The income, expenditure and result of Electricity Supply, Briquetting, Brown Coal and Tramways Operations were:—

	Income.	Expenditure.	Result.	
			Profit.	Loss.
	£	£	£	£
Electricity Supply	9,446,008	9,284,555	161,453	..
Briquetting	436,862	455,408	..	18,546
Brown Coal	244,100	218,475	25,625	..
Tramways	171,504	297,493	..	125,989
Miscellaneous Revenue	40,183	..	40,183	..
General Charges (Provident Fund Contributions, etc.)	..	432,094	..	432,094
	£10,338,657	£10,688,025	£227,261	£576,629

	£
The year's operations thus showed a loss of	349,368
which was reduced by the transfer from Rate Stabilisation Reserve of	100,000
Converting the final result to a deficit of	£249,368

The General Profit and Loss Account, Balance Sheet, Schedules of Fixed Capital, Loans raised by the Commission, and Debentures guaranteed by the Commission are shown in appendices Nos. 1 to 4.

LOAN LIABILITY.

Total loan liability at 30th June, 1950, was £51,270,067

The commitments involved are:—

	£
Liability to State of Victoria	15,992,602
State Electricity Commission of Victoria Loans	35,265,374
Municipal Debentures in respect of Undertakings acquired	12,091
	£51,270,067

Loan Liability has increased this year by £17,440,506—

	£	£
(a) State Electricity Commission Loans		17,600,711
(b) Increase in indebtedness to State arising from loan conversion operations in London and the repatriation of securities to Australia		137,105
		£17,737,816
Less—		
(a) Reduction of indebtedness to State through National Debt Sinking Fund;	170,479	
(b) Redemption of State Electricity Commission Loans	112,076	
(c) Repayment of thirteenth (final) instalment on £100,000 borrowed for tramway reconstruction;	9,629	
(d) Redemption of Municipal Debentures guaranteed by Commission	5,126	
		297,310
		£17,440,506

Included in year's loans were two public loans of £2 million each (Interest £3 3s. 9d. and £3 5s. per cent. respectively); these were oversubscribed within a few days of the opening, subscriptions totalling £4,822,850.

For the 1950–51 works programme, the Commission has sought and obtained approval from the Loan Council for the raising by loan of £26,000,000.

RESERVES.

Total reserves at the 30th June, 1950, were £18,200,424, an increase for the year of £751,898.

The Depreciation and Sinking Fund Reserve at 30th June, 1950, totalled £15,925,004, an increase of £1,112,996 for the year. Of the total, £2,028,032 was to the credit of the Commission in the National Debt Sinking Fund Reserve, £13,321,314 to the credit of the Depreciation Reserve (which, with the exception of £564,585 applied to the National Debt Sinking Fund Reserve, was invested in the business of the Commission), and £575,658 to the credit of the State Electricity Commission Sinking Fund Reserve. Other Reserves were:—

	£
Contingency Reserve	752,391
Rural Development Reserve	1,200,000
General Reserve	323,029
	£2,275,420

CAPITAL EXPENDITURE.

Total capital expenditure at 30th June, 1950, was £61,358,803.

After deduction for retirements and the writing out of non-productive expenditure, the total expenditure on capital works increased by £14,031,769. The principal increases were in the following accounts:—

	£
Coal Production—Yallourn	732,771
Power Production—	
Thermal Stations—Yallourn	788,021
Newport	773,111
Richmond	346,264
Hydro Stations—Kiewa	3,481,006
Transmission Systems—	
Main Transmission Systems	998,464
Provincial and Country Branches	414,471
Distribution Systems—	
Metropolitan	390,064
Provincial and Country Branches	703,410
Briquette Production—Yallourn	112,564
Morwell Project	1,921,665
General—(Construction plant, townships, accommodation, etc.	
Yallourn	1,432,296
Kiewa	615,517
Head Office and Electricity Supply Branches	1,338,704

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SYSTEM GENERATING CAPACITY.

Generating plant on order including associated boiler plant as necessary, its planned location and date of operation are as follows:—

Plant.	*Planned date of operation.*
Yallourn Power Station	
Four 50,000 kW turbo-generator sets.. .. .. (To come into operation at intervals of approximately 12 months.)	1953 onwards.
Newport Power Station	
One 30,000 kW turbo-generator set	Complete 1951.
Richmond Power Station	
One 38,000 kW turbo-generator set	Portion winter 1951; complete 1952
Kiewa Hydro-Electric Project	
Four 15,000 kW turbo-generators—No. 4 Power Station	1952–53
Two 16,000 kW turbo-generators—No. 5 Power Station	1953.
Regional Power Stations	
Warrnambool—	
Six 830 kW sets	1951
Three 1,850 kW sets	1952
Shepparton—	
Six 830 kW sets	1951
Three 1,850 kW sets	1952
Morwell Briquette Factory	
(By-product electricity)	
20,000 kW	1953
20,000 kW	1954
Spencer Street Power Station	
(Melbourne City Council)	
One 30,000 kW turbo-generator set	1952
One 15,000 kW turbo-generator set	1953

Newport "A" (Railways) Power Station

The Victorian Railways Commissioners are installing a 30,000 kW turbo-generator set (25 cycles—Victorian Railways system frequency); also the Commission's plans provide for a 30,000 kW set (50 cycles—State system frequency) to be installed by 1954—an existing 12,500 kW set will be taken out of service. A further frequency changer will be installed, increasing the ultimate capacity for interchange of electricity between the Railways and the State system to 55,000 kW.

Hume Weir

Reference has been made elsewhere in the report to the use of the Hume waters for power generation purposes. Two 25,000 kW turbo-generators are to be installed and the project is expected to be completed by 1953; the output is to be shared by New South Wales and Victoria.

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The estimated capacity of generating plant for each of the next six years is as follows:—

As at 30th June.	*kW*
1950	508,465 (actual)
1951	545,000
1952	640,000
1953	741,000
1954	825,000
1955	910,000
1956	965,000

HYDRO-ELECTRIC RESOURCES OF THE SNOWY RIVER.

On the 7th July, 1949, the Commonwealth established the Snowy Mountains Hydro-Electric Authority, with power to develop the use of the Snowy River waters for irrigation and power generation. A broad outline of the project was contained in last year's report: ultimately about 750,000 kW should be available to Victoria, and preliminary estimates suggest that the cost of energy will be below that of steam generation, with the possible exception of Yallourn.

The Commonwealth has set up an Advisory Committee, representative of the Commonwealth and the States of New South Wales and Victoria, to confer with the Authority regarding the construction and operation of the proposed works, but as yet it has not called the Committee together. The Victorian Government has appointed as its representatives Mr. L. R. East, Chairman of the State Rivers & Water Supply Commission, and Mr. W. H. Connolly, Assistant to the General Manager of this Commission.

USE OF THE HUME, EILDON AND OTHER IRRIGATION WATERS FOR POWER GENERATION.

HUME PROJECT.

Previous reports have referred to the adoption by the Commonwealth Government and the States concerned of the proposal of the River Murray Commission to increase the capacity of the Hume Reservoir from 1¼ to 2 million acre feet. Also that agreement had been reached by the State Electricity Authorities of New South Wales and Victoria and the River Murray Commission regarding the use of the water for electricity generation.

The power station (two 25,000 kW turbo-generators), designed by the Victorian Electricity Commission, will be located in New South Wales and is to be installed and operated by that State; the output and annual costs will be shared by the New South Wales and Victorian Electricity Authorities. The New South Wales Department of Public Works is considering tenders for the generating plant and it is expected that the project will be completed by 1953.

EILDON PROJECT.

The State Rivers & Water Supply Commission is to increase the capacity of the Eildon Reservoir from 306,000 to 2,750,000 acre feet. Agreement, in principle, has been reached with that Commission concerning the installation of additional generating plant and for an arrangement to ensure the least possible interruption to operations at the present Sugarloaf Power Station during the construction period. The principal features relating to the installation of generating plant are:—

1. A total installed capacity of 120,000 kW.
2. The enlargement of the Reservoir beyond the requirements for irrigation so that water will be available at the Electricity Commission's request to meet emergency and peak winter demands. (Normally the storages for irrigation purposes are released during the summer period when the demand for electricity is lowest; thus in that portion of the year when the electricity demand is highest storages are filling and there is no regular output of energy.)
3. The construction of a regulating pondage below the Dam so that the water can be released from the Reservoir at times during the day when it would be most beneficial for power generation.

The State Rivers & Water Supply Commission has contracted for the construction of the new Dam and tenders have been called for the generating plant.

OTHER IRRIGATION PROJECTS.

As reported last year, provision has been made for a hydro-electric development of 1,600 kW at the Cairn Curran Reservoir. The practicability of installing hydro-electric plants at other irrigation projects is being studied as developments proceed.

MURRAY VALLEY REGIONAL SCHEME.

On the 29th August, 1950, the Governor in Council approved a scheme submitted by the Commission for the extension of the State transmission system throughout the Murray Valley Region and the ultimate distribution of electricity by the Commission in North and North-West Victoria.

The main features of the project are:—

(1) The construction of a 220 kV transmission line from Kiewa to Mildura via Shepparton and Swan Hill: completion date 1958.

(2) The establishment of peak load diesel power stations at Shepparton (under construction) and Swan Hill, and the supplementing of existing steam generating plant at Mildura by the installation of diesel generating sets. (The existing steam plant at Mildura will be kept in operation until a later stage in the development.)

(3) The progressive and ultimate capacities of the proposed diesel peak load stations up to 1965 are as follows:—

Shepparton.	*Mildura.*	*Swan Hill.*
1951—10,000 kW	1953—2,500 kW	1953—7,500 kW
1964—12,500 kW	1954—5,000 kW	1957—10,000 kW
1965—15,000 kW	1955—7,500 kW	1962—12,500 kW
	1956—10,000 kW	1965—15,000 kW
	1962—12,500 kW	
	1963—15,000 kW	
	1964—17,500 kW	

(4) The planning of suitable 22 kV transmission schemes to radiate from Mildura and Swan Hill. It is expected that ultimately the following centres will be served:—

Mildura Region—

Cardross, Irymple, Merbein, Mildura, Millewa, Red Cliffs, Robinvale, and the New South Wales border towns of Curlwaa, Coomealla, Euston, Gol Gol, Wentworth.

Swan Hill Region—

Berriwillock, Birchip, Boort, Charlton, Cohuna, Culgoa, Donald, Dumosa, Gunbower, Kerang, Koondrook, Lake Boga, Manangatang, Nullawil, Nyah, Pyramid, Quambatook, Sea Lake, Swan Hill, Ultima, Woomelang, Woorinen, Wycheproof, and the New South Wales border town of Barham.

(5) Because of present commitments and limited resources, it will not be possible to complete the transmission line to Mildura before 1958. Progressive installations will be made to diesel plants at the three selected load centres to enable in the meantime all the loading to be carried by the regional stations until transmitted supply is available.

(6) After 1958 the stations will operate for peak load requirements and/or as reserve plant.

The project, in effect, embraces earlier proposals for a regional scheme based on Mildura. The estimated total cost for the three regional power stations, the 220 kV transmission line and main sub-stations is £6,545,000.

SINGLE CONTROL OF POWER GENERATION AT NEWPORT.

As reported previously, legislation authorising the transfer of the Victorian Railways generation assets (Newport "A" Power Station) to Commission ownership was passed by Parliament in July, 1948. Discussions have continued between both authorities on the problems associated with the transfer of personnel and assets, and the supply of electricity to the Victorian Railways Commissioners. Subject to the approval of the Governor in Council the date fixed for the transfer is the 21st January, 1951.

SHORTAGE OF MATERIALS AND EQUIPMENT.

Despite special measures, protracted deliveries of many items of materials and equipment still cause the Commission grave concern.

Local manufacturers have been able to supply but a small portion of requirements of machinery, equipment, structural steel and other materials, and large orders have been placed overseas at costs substantially above Australian products. During the year a further 20,000 tons of steel (the total for the last two years, 38,000 tons) were ordered for structural and other purposes.

As mentioned elsewhere, the number of new country consumers has doubled since pre-war years. But for these serious shortages, even better results would have been attained. At present, 5,000 transformers are on order from local and overseas manufacturers. This almost equals the number of transformers now installed: unfortunately, delivery periods of some types vital to the programme are prolonged.

Interstate supplies of cement, poles, building timbers, crossarms, etc., continue to be brought to Victoria by a small coastal steamer owned by the Commission and other vessels chartered for this purpose.

HEAVY EARTH MOVING EQUIPMENT.

At Kiewa, Morwell, Yallourn and other projects throughout the State, adequate numbers of heavy tractors and other earth-moving equipment are vital to completion of the civil engineering works as planned.

Purchase of new units has been possible only from dollar countries. While dollar restrictions have prevented large importations from America, the Commission has exploited every source of second-hand equipment in Australia, Great Britain and the Pacific Islands.

Procurement of replacement parts for these machines has, in itself, presented serious difficulty and caused undue loss of operating time for maintenance. Satisfactory second-hand machines are no longer available overseas. The Commission, therefore, notes with relief the Commonwealth announcement that a large portion of the dollar loan from America is for construction plant for national developments, and it hopes that at last the way is open for the Commission to obtain additional and replacement units of new earth-moving plant.

The Commission has submitted to the Dollar Loan Committee a schedule of its requirements to the end of 1952, involving a total estimated cost of £3,000,000.

HOUSING AND ACCOMMODATION.

At its major undertakings, the Commission, in addition to providing hostels for single men, has been compelled to undertake large housing projects for its married personnel.

The Victorian Housing Commission has assisted considerably by providing homes for Electricity Commission employees at Moe (335) and Morwell (72), but this is quite inadequate. To ensure the stability of its labour forces and to help in accelerating construction programmes, new housing projects planned and under construction by the Electricity Commission are as follows:—

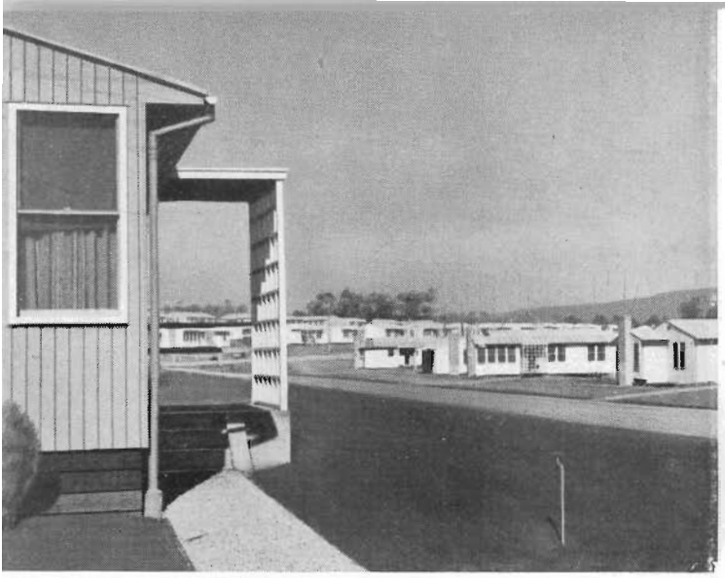
Yallourn Area	*Number of houses.*
Newborough	700 (English pre-cut houses)
Yallourn North	350
Morwell	350 (300 transit houses)
Kiewa (Mt. Beauty)	530

In addition, 100 houses are to be erected for shift personnel within a short distance of the Newport Power Station. To date, 170 prefabricated houses have been purchased from the Housing Commission for erection at the above and other locations.

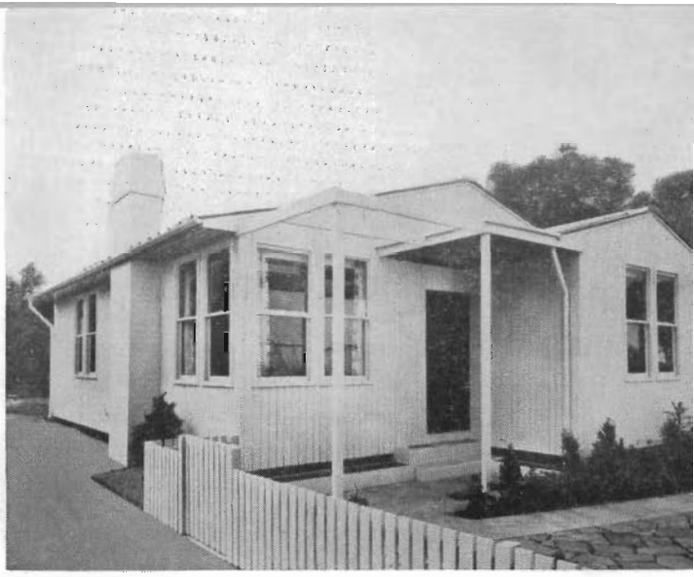
Hostels for single men are being extended considerably: the ultimate provisions for the various locations and the men accommodated are as follows:—

Hostels.	*Ultimate Capacity.*	*At 30th June*, 1950.
Yallourn	2,868	2,265
Morwell	1,430	112
*Kiewa	6,525	3,025
Metropolitan Area	420	230

* Includes provision for 2,268 men on the High Plains, where work is largely confined to the summer period.



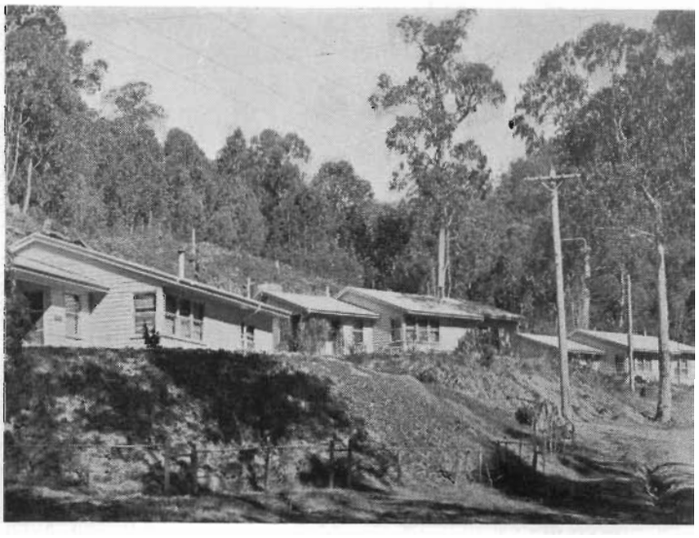
Newborough (near Yallourn) where 700 English pre-cut houses are being erected.



Type of home (3 bedrooms) being erected at Newborough.

HOMES FOR COMMISSION PERSONNEL

Portion of Yallourn North township—ultimate development 350 homes.



Rubicon.

Portion of Mt. Beauty township (Kiewa Hydro-Electric Project)—ultimately 530 homes to be erected. Most of these houses will be of a type readily transferable to other projects.

OFFICE AND WORKSHOP ACCOMMODATION. — METROPOLITAN AREA.

Delays have occurred during the war and post-war years in the building of offices and workshops to meet the needs accompanying a normal development of the State system, and particularly the expansion of staffs required for the major power and fuel projects to which the State is committed.

An area of 40 acres has been acquired at Fisherman's Bend for the first stage in the development of Central Workshops and Depots: but a further area will be acquired for the ultimate project. The Automotive and Plant Workshop is under construction, and the Administrative building will be occupied before the end of 1950.

Contractors have commenced on the excavations for the new office premises in William Street (opposite the existing Head Office). Imported materials will be used to bring the building to ground floor level, and as soon as building conditions permit a 13-storey structure will be erected. Meantime, staffs have been dispersed at considerable inconvenience at temporary locations. Properties purchased at St. Kilda Road, Melbourne, Rooney Street, Burnley, and the extensions to the Church Street, Richmond, offices have been used for this purpose.

CONNECTION OF NEW CONSUMERS.

There were 18,870 new consumers—a record year for the Electricity Supply Department. Special measures were continued overseas to supplement the restricted local supplies of line construction materials, sub-station equipment and transformers. These measures have made it possible to connect 69,374 consumers during the last four years, as compared with 47,064 for the four years prior to the war. To augment resources available to the Commission, contracts have been let for the erection of several extensions: if effective this practice will be extended.

SUMMARY OF PROGRESS—69,000 consumers in four years.

Year ended 30th June.	New Consumers Connected.			Farms Connected.
	Total.	Metropolitan Area.	Outside Metropolitan Area.	
1947	17,655	4,426 (25 per cent.	13,229 (75 per cent.)	1,471
1948	15,972	5,657 (35 per cent.)	10,315 (65 per cent.)	1,340
1949	16,877	6,104 (36 per cent.)	10,773 (64 per cent.)	1,238
1950	18,870	6,380 (34 per cent.)	12,490 (66 per cent.)	1,322
Total for Four years	69,374	22,567 (33 per cent.)	46,807 (67 per cent.)	5,371
Total for Four years prior to war ..	47,064	24,398 (52 per cent.)	22,666 (48 per cent.)	2,992

In the year under review the country districts again claimed by far the greater proportion of materials and equipment for line construction work:—

	Outside Metropolitan Area.	*Metropolitan Area.*
Poles erected	10,171	1,741
High voltage lines erected	351·5 miles	12·4 miles
Low voltage lines erected	306·8 miles	44·6 miles
Sub-stations erected	331	35
Capital expenditure .. .. (Branch Transmission and Distribution)	£1,117,881	£390,064

During 1949–50, this allocation has enabled twice as many consumers to be connected in provincial and country areas as in the metropolis, whereas prior to the war the number was approximately equal. As the system is extended into the more remote parts of the State, greater quantities of materials are required for each new consumer connected.

Extra-metropolitan consumers have almost doubled and the number of farms connected has more than trebled during the last decade, despite war and post-war difficulties. The extent of the country electrical development is evident from the following statistics and the further information in the "Ten Year Statistical Review" (Graphs Nos. 7 and 9) at the front of this report:—

Financial Year.	Total Consumers Served by Commission.	Extra-Metropolitan Consumers.	Farms Supplied.
1939-40	271,749	86,784	5,147
1944-45	311,172	111,751	8,772
1949-50	391,005	166,231	15,741

ELECTRICITY SUPPLY BOARD OF INQUIRY.

Last year's report referred to the appointment by the Governor in Council on the 16th May, 1949, of an Electricity Supply Board of Inquiry to inquire into and report upon:—

1. The best means of making electricity supply available by an economical and expeditious method in all areas of Victoria, to all sections of the community.

2. The most suitable form of organisation to effect this undertaking, with special but not restricted reference to rural districts:—
   (a) Served by the State Electricity Commission;
   (b) To be served by the State Electricity Commission;
   (c) Unlikely to be served by the State Electricity Commission.

The personnel of the Board is Mr. B. S. Woodfull (Melbourne City Council Electricity Supply Department), Chairman; Mr. K. C. Fraser (New South Wales Electricity Supply Authority), and Mr. R. Liddelow (State Electricity Commission of Victoria).

The Commission, in response to the Board's requests, has submitted to it considerable data required for its investigations which were still in progress at the close of the year.

ELECTRICITY SUPPLY TARIFFS.

The accelerated general increases in operating and capital costs have again caused the Commission much concern and it was with great reluctance that tariffs had to be further increased by about 7 per cent. as from the 1st July, 1950; the new tariff schedules are shown in Appendix No. 13.

These tariff adjustments were formulated to ensure an increase in annual revenue of £750,000 per annum. A considerably greater increase has been avoided because the Commission continues to be relieved of the liability for imported coal costs in excess of the New South Wales parity price.

The average cost per kilowatt-hour to consumers is today only 10 per cent. higher than ten years ago and is in marked contrast to the upward trend in the cost of living (see Graph No. 5—Ten Year Statistical Review, in the front of this Report).

At the time of the preceding tariff increases, the Government decided to subsidise rural consumers by recouping the Commission the difference between rural tariffs as scheduled and those operating prior to the October, 1949, increase. Up to the 30th June, 1950, when the subsidy was withdrawn, £62,050 had been credited to these consumers, but, as the Commission has not so far been reimbursed by the State, this sum is included as a sundry debtor item in the balance sheet.

MAJOR EXTENSIONS PROGRAMME.

NEWPORT POWER STATION.

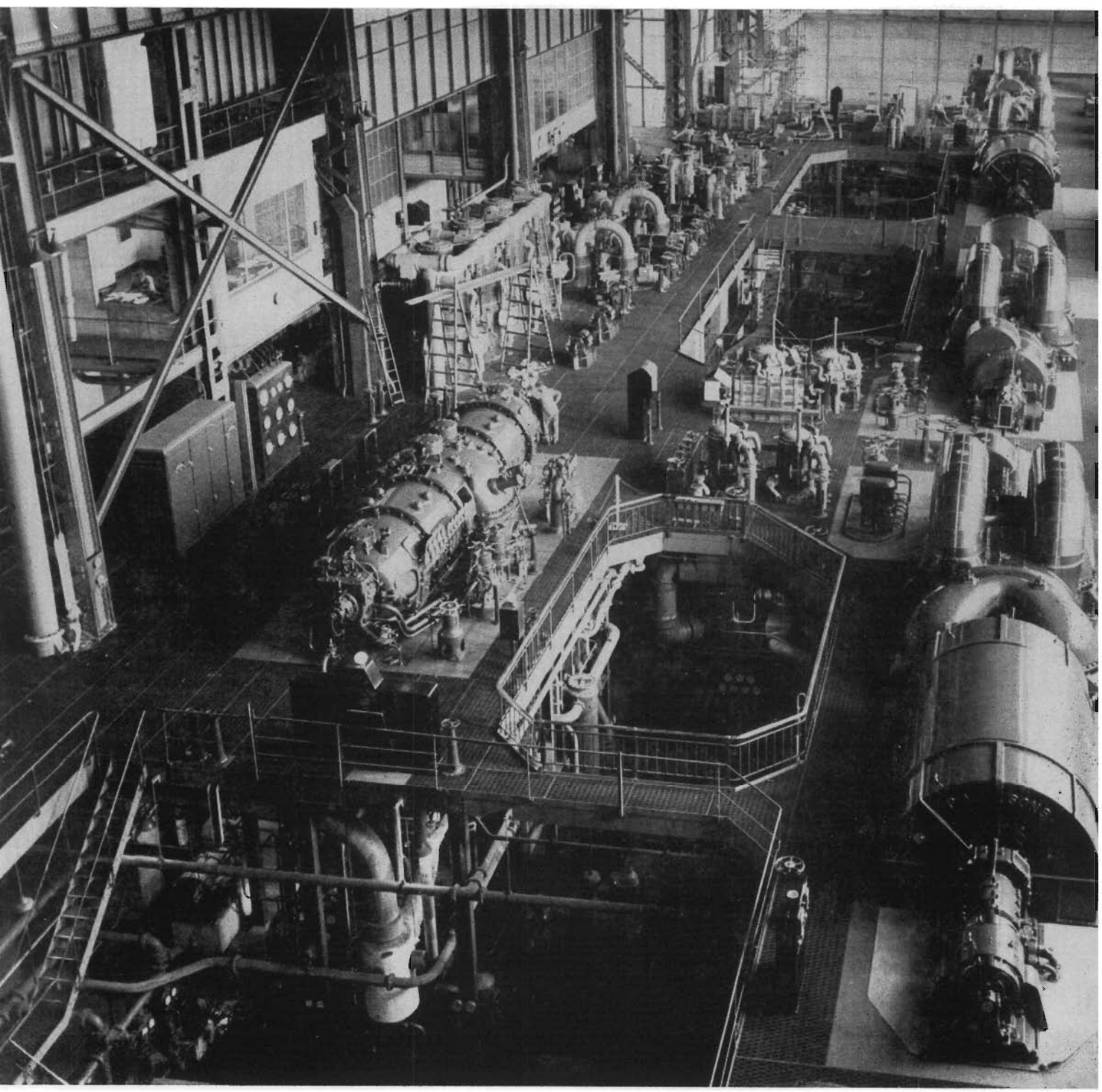
(STATION "C"—FOUR 30,000 kW SETS, Nos. 4, 5, 6 and 7.)

With the installation of a further boiler (to be in operation early in 1951), this project, commenced in 1941 and developed during the difficult years of the war, will have been completed. As reported last year, Nos. 4, 5 and 6 turbo-generators and five of the six associated boilers were in operation. On the 1st May, 1950, turbo-generator No. 7 was placed in service; a further two boilers also have been completed.

To enable raw brown coal to be used to best advantage, supplementary oil firing equipment has been installed already in four boilers; this type of equipment is to be provided for all eight boilers at Newport "C" Station.

Two electrically operated truck tipplers ordered overseas to meet the urgent need for additional fuel handling facilities were delivered during May, 1950, and the first unit was placed in service in July. Railway tracks serving the power station fuel handling arrangements are being altered and increased to expedite the flow of rail trucks.

NEWPORT "C" POWER STATION (TURBINE ROOM)—One 18,000 kW (left) and four 30,000 kW (right) turbo-generators installed during and since the war. These sets came into operation in 1944, 1945, 1946, 1948 and 1950, respectively, making Newport (until completion of Yallourn "C" extension) the largest station linked to the State generating system.

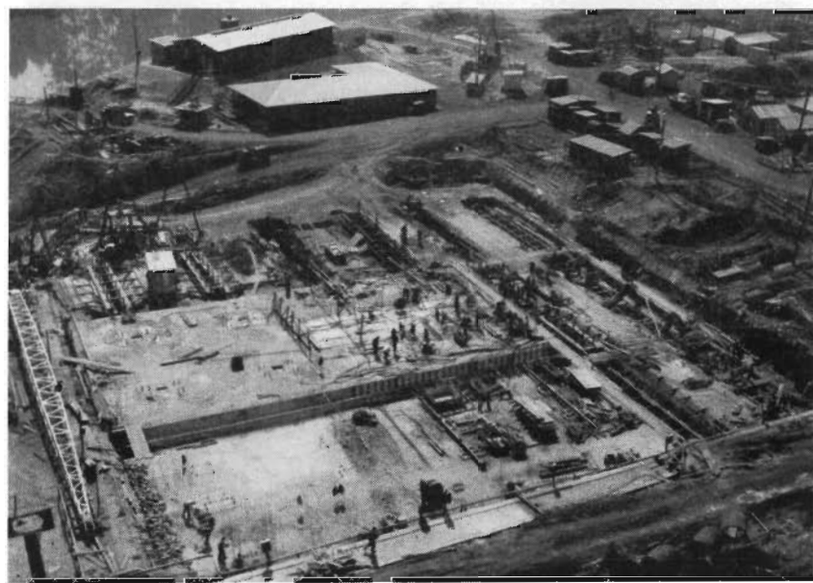


EXTENSIONS TO YALLOURN POWER STATION

Site of new "C" station to house two 50,000 kW turbo-generator sets (first set for operation in 1953, second 1954). Foundations and excavations in the foreground.

Power Station "C"
Turbine House Foundations.

Power Station "C"
Boiler House Foundations.



YALLOURN POWER STATION.

(APPROVED DEVELOPMENT—FOUR 50,000 kW SETS.)

Yallourn "C"—The two 50,000 kW turbo-generators and six 200,000 lb. per hour boilers for this first stage were ordered in May and June, 1947; the manufacture of the turbo-generators in England is now well advanced and some items of boiler plant have been delivered.

The absence of good natural foundations required special designs—the boiler house design involves a series of reinforced concrete rafts and the foundation columns of the turbine house are designed with enlarged bases to reduce the bearing pressure. Sufficient progress was made to enable erection of the boiler steelwork to commence shortly after the close of the year.

Orders have been placed for pneumatic ash handling plant and a comprehensive scheme of coal handling to meet the eventual requirements of the extended Power Station is being developed.

Yallourn "D"—This Station (second stage) which will be of similar design and capacity to Yallourn "C" was approved by the Governor in Council on 29th October, 1949. Orders have been placed for a further two 50,000 kW turbo-generators and associated boiler plant. Inclusive of coal winning and overburden dredgers, etc., and provision for 220 kV Yallourn-Melbourne transmission line and equipment, the total estimated expenditure is £16,557,680.

The economics and practicability of storage on the upper reaches of the Latrobe and Tanjil Rivers are under investigation as an alternative to cooling towers to assure adequate cooling water for the augmented station during the summer months.

KIEWA HYDRO-ELECTRIC PROJECT.

(INSTALLED CAPACITY 289,000 kW.)

Construction personnel increased from 2,117 to 2,989. Difficulty still continues in obtaining building and electrical tradesmen and diesel mechanics; otherwise the required labour is available.

The Commission has been concerned with the slow delivery of major items of construction plant: every effort is being made to overcome these delays.

Water Storages on the High Plains.—72 per cent. of the total foundations for the earth and rock filled dam at Rocky Valley have been completed. The spillway shaft and tunnel and diversion tunnel have been completed; concrete lining of these tunnels is in progress.

Excavations at Langford's Gap are proceeding to enable water to be diverted by racelines to the Rocky Valley Dam.

Two rock crushing plants are being erected on the High Plains.

Site works and access roads for the multiple arch reinforced concrete dam at Pretty Valley are well advanced. The lower tailtower bank for the cableway is complete; the upper bank is 70 per cent. complete.

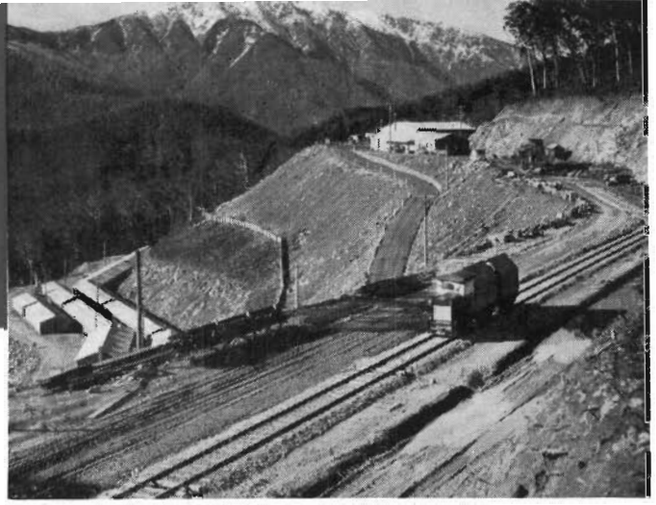
No. 1 Development (Upper Development) Ultimate Capacity 73,000 *kW.*—The clearing at the site for the portal of the tailrace tunnel, and construction of an access road from Howman's Gap to the site of Mt. McKay adit tunnel are in progress.

No. 2 Development—Ultimate Capacity 98,000 *kW.*—Invitations have been issued to a number of overseas organisations, with extensive experience in the design and construction of major hydro-electric projects, to submit offers for completing the investigation and design, and carrying out the construction of this development, including the power station, over seven miles of tunnels and approximately 70 miles of racelines.

No. 3 Development (Bogong) Installed Capacity 26,000 *kW.*—This development, as originally planned, was completed early in 1945. To divert additional water to this Station, the Bogong Creek raceline is under construction—the bench has been prepared for 53 per cent. of its total length.

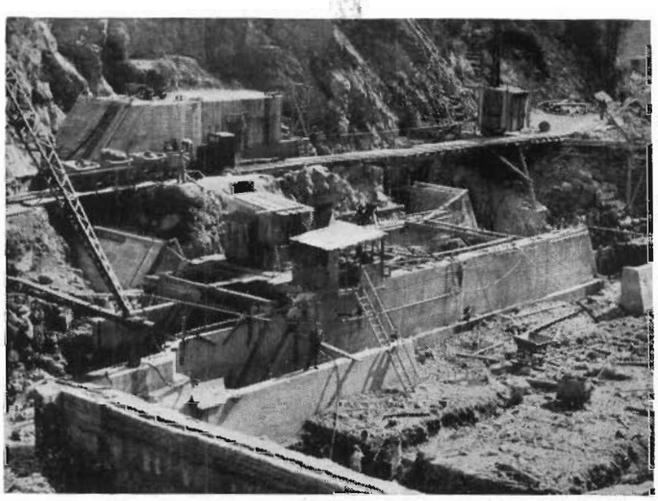
No. 4 Development—Ultimate Capacity 60,000 *kW.*—The headrace tunnel has been excavated at the lower end to 5,907 ft.—50 per cent. of its total length, and the tailrace tunnel for 2,031 ft.—34 per cent. of its total length. It was necessary to divert the headrace tunnel to by-pass a heavily faulted section of rock. Tunnelling has commenced from the site of Clover Dam to link with the lower section of the headrace tunnel. The inclined pressure tunnel from the headrace to the power station has been commenced.

KIEWA HYDRO-ELECTRIC PROJECT



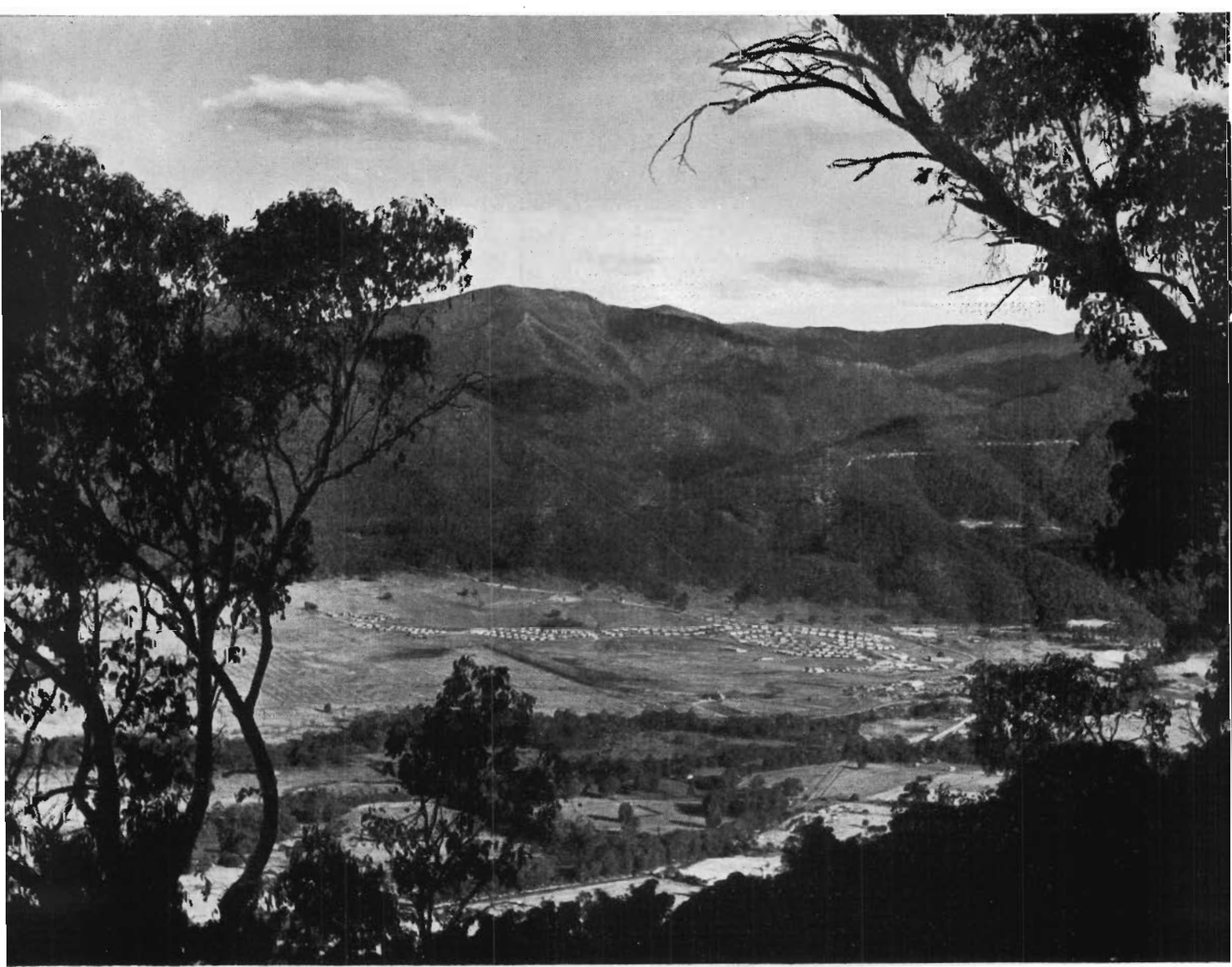
No. 5 development-raceline bench approaching pondage site

Working at night on excavations for Rocky Valley Dam.

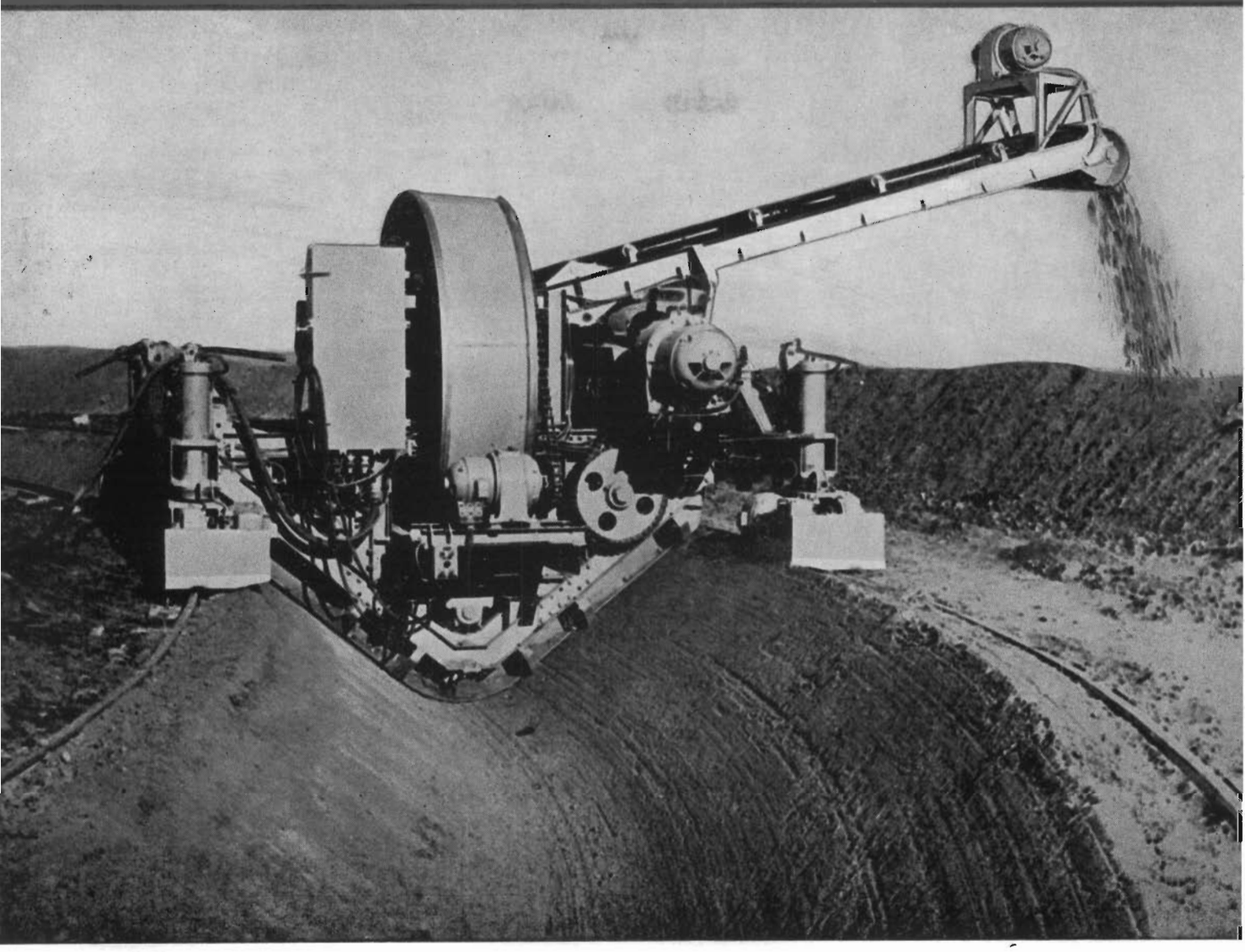


Foundations for Clover Dam taking shape.

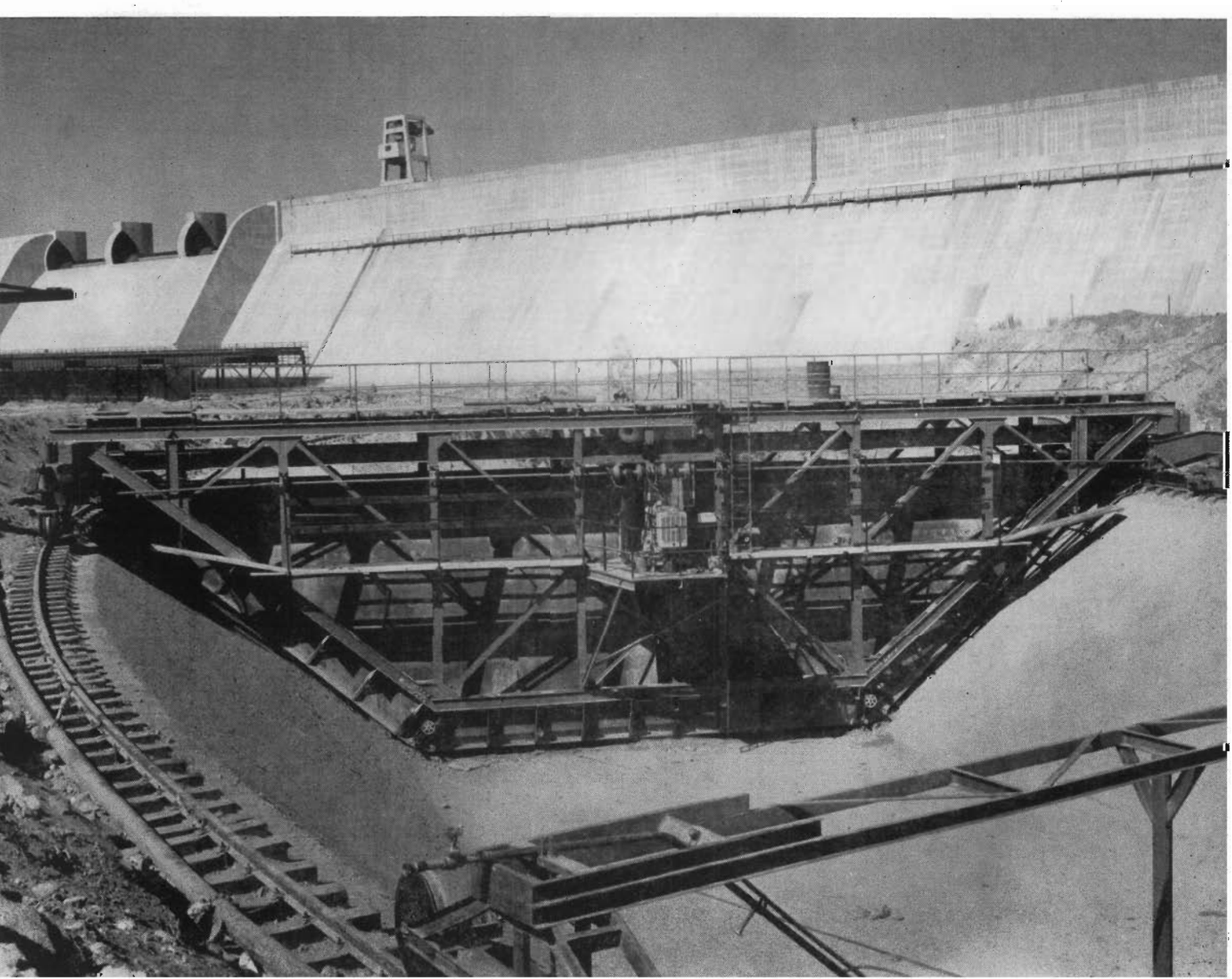
Mount Beauty township from the Tawonga Gap.



CANAL EXCAVATION AND CONCRETE LINING MACHINES



Two similar machines of each type have been delivered for the construction of over 150 miles of racelines at the Kiewa Hydro-Electric Project and will be in operation about the end of 1950.



The lift shaft to give access to the underground power station was completed shortly after the end of the year. Heavy water inflows were experienced necessitating a slight alteration to the location of the Station.

The excavations for Clover Dam are 75 per cent. complete and 20 per cent. of the concrete has been placed.

No. 5 Development—Ultimate Capacity 32,000 *kW.*—The clearing of the pondage area was completed and a start made with pondage excavation. The raceline bench has been prepared for 14 per cent. of its total length of 25 miles and trench excavation has commenced. The tailrace tunnel has been driven 236 ft. (about half the total length) upwards from No. 4 headrace tunnel.

Mt. Beauty Township and Base Depot.—227 houses are occupied and 60 are in course of erection; with the arrival of 150 English pre-cut houses and the development of a local prefabricated house, completion of the township will be accelerated. Stores, workshops and hostel accommodation are being progressively extended as well as further shopping facilities.

The railhead depot at Bandiana is in service and the main store building completed. Good progress is being made by the Country Roads Board on the reconstruction of the Kiewa Valley Road between Bandiana and Mt. Beauty.

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The Commission has arranged for Balfour Beatty & Co. Ltd., an English firm of consulting engineers, to investigate and report on the prospects of a hydro-electric power development on the Mitta Mitta River.

MORWELL BRIQUETTE PROJECT.

(Approved capacity—2,600,000 tons briquettes per annum.)

Reference was made in last year's report to the visit of a technical mission to Great Britain and Germany, under the leadership of Mr. E. Bate, M.C., B.Sc., Whit. Schol., A.M.I.E. Aust., and to the purchase in those countries of plant and buildings totalling £9 million for this project.

Briquette Factories.—Manufacture of the plant for the first and second factories (capacity 1,300,000 tons briquettes per annum) is proceeding satisfactorily and, to the 30th June, 740 tons of structural and fabricated steelwork had arrived in Melbourne and approximately 2,000 tons were in transit. Excavation of the factory site was commenced in February, 1950, and 307,000 cubic yards have been excavated. Site works for auxiliary buildings and railways have been commenced.

Open Cut.—During the year 408,500 cubic yards of overburden were removed from the new Open Cut, bringing the total to 452,200 cubic yards. Excavation of the main cut-off drain is now 58 per cent. complete.

Manufacture in Australia of one overburden and one coal dredger is 70 per cent. and 50 per cent. complete respectively. Because of the heavy commitments of Australian manufacturers, orders have been placed in Germany for an overburden spreader and a bucket wheel dredger. Other plant now on order from Great Britain, Australia and Germany includes an electric locomotive dump plough, seven 60-ton electric locomotives, three diesel locomotives, forty-five 32 cubic yard overburden trucks and forty-two 33-ton coal trucks. Two large draglines have been delivered.

Work has been commenced on the 90 cm. railway interconnecting the Morwell and Yallourn Open Cuts.

General Services.—The new Morwell Reservoir was completed and surveys are in progress for the pipe lines from the Tyers River to the Reservoir and thence to the open cut and the briquette factories. Drilling is proceeding at the Tyers River dam site. A pumping station on the Tyers River will augment the water supply pending completion of this dam.

Nearly 700 men are employed at the site by the Commission or its contractors, but accommodation is a limiting factor which the Commission is endeavouring strenuously to overcome. At 30th June, 72 cubicles were complete at the Ridge Hostel (planned capacity 1,360); the Housing Commission had allocated 80 houses and 109 men were accommodated at a temporary camp.

Workshops and stores buildings are being erected progressively.

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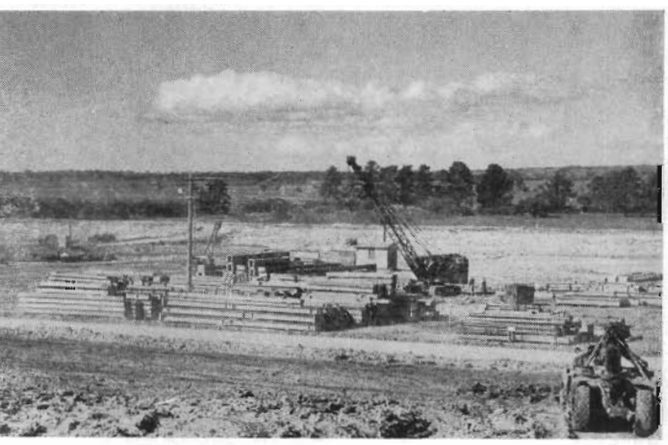
The Governor in Council since the close of the year has approved the placing of orders for the third and fourth briquette factories (including electrical and steam-raising plant). The annual output upon completion of the project (four factories) will be 2,600,000 tons.

MORWELL BRIQUETTE PROJECT

Approved capacity—2,600,000 tons briquettes per annum.

Site of new open cut—preparatory excavations for operations of overburden dredger.

Preparation of briquette factory site.



First shipment of steel from Germany for briquette factories at the site.

Earth works for railway interconnecting main Gippsland line with briquette factory sidings.

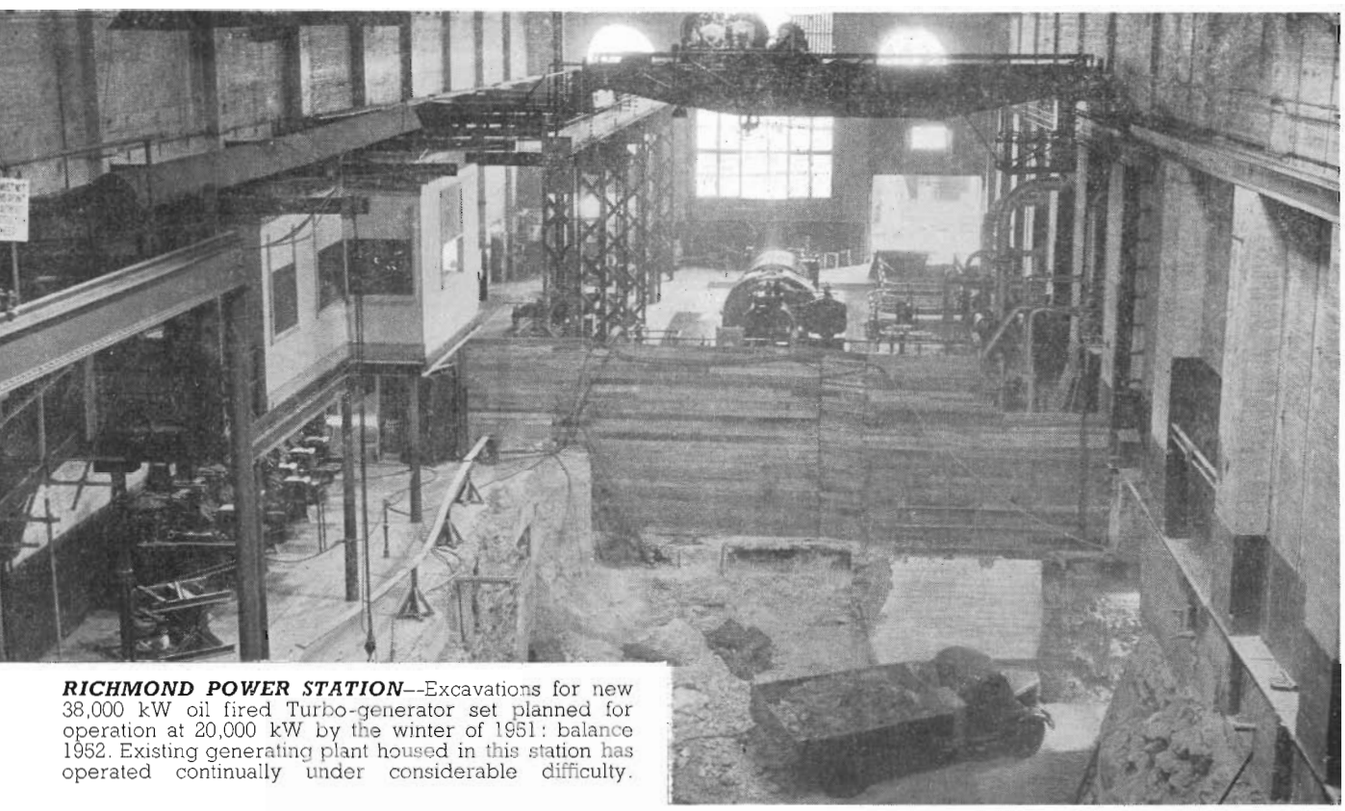
Ridge hostel under construction for single personnel (ultimate capacity 1,360 men).

RICHMOND POWER STATION.

(ONE 38,000 kW SET.)

An order was placed in June, 1949, for a 38,000 kW turbo-generator and two 165,500 lb. per hour oil fired boilers. Satisfactory progress is being made with the manufacture—one boiler has been shipped since the close of the year, and most of the other plant will be shipped before the end of 1950 with the exception of the alternator, manufacture of which is expected to be completed by March, 1951. This set is planned for operation with one boiler by the winter of 1951.

Excavations for plant foundations and circulating water conduits are in progress.



RICHMOND POWER STATION--Excavations for new 38,000 kW oil fired Turbo-generator set planned for operation at 20,000 kW by the winter of 1951: balance 1952. Existing generating plant housed in this station has operated continually under considerable difficulty.

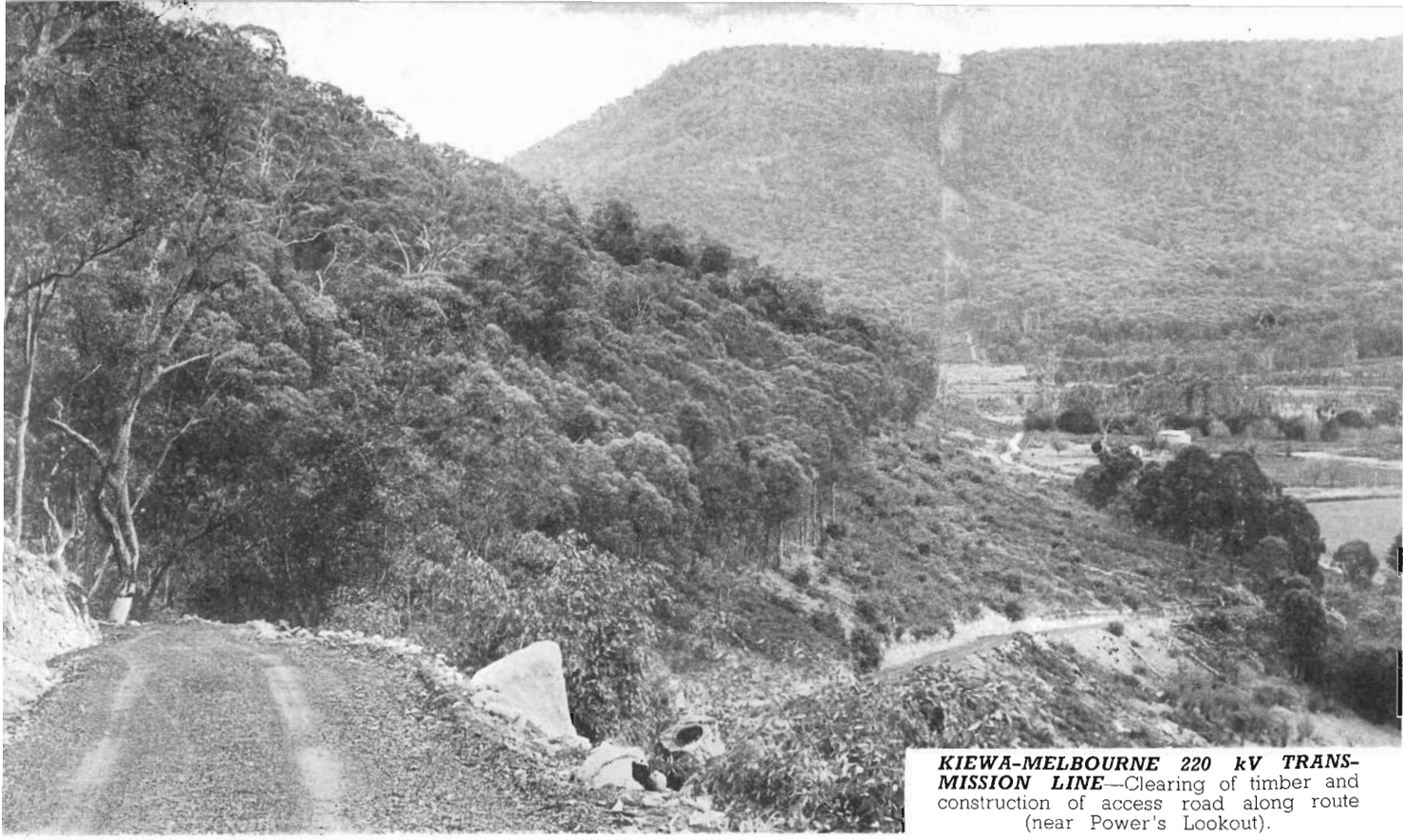
REGIONAL POWER STATIONS—SHEPPARTON AND WARRNAMBOOL.

(APPROVED CAPACITY—10,530 kW AT EACH STATION.)

Six 830 kW diesel generating sets were ordered for each station in August and October, 1949, and a further three 1,850 kW sets for each station in April, 1950. Manufacture of these sets is proceeding satisfactorily.

Work has commenced on the power station building at Shepparton, where operations are planned to commence during the coming summer to meet the heavy seasonal demand in the district. Site works have commenced at Warrnambool, and it is planned that the station will operate before next winter.

REGIONAL POWER STATIONS, SHEPPARTON AND WARRNAMBOOL—Architects drawing of new regional power stations (10,530 kW each) being erected at Shepparton and Warrnambool. Approximately one-half the plant will be in operation during 1951, the balance in 1952.



KIEWA-MELBOURNE 220 kV TRANSMISSION LINE—Clearing of timber and construction of access road along route (near Power's Lookout).

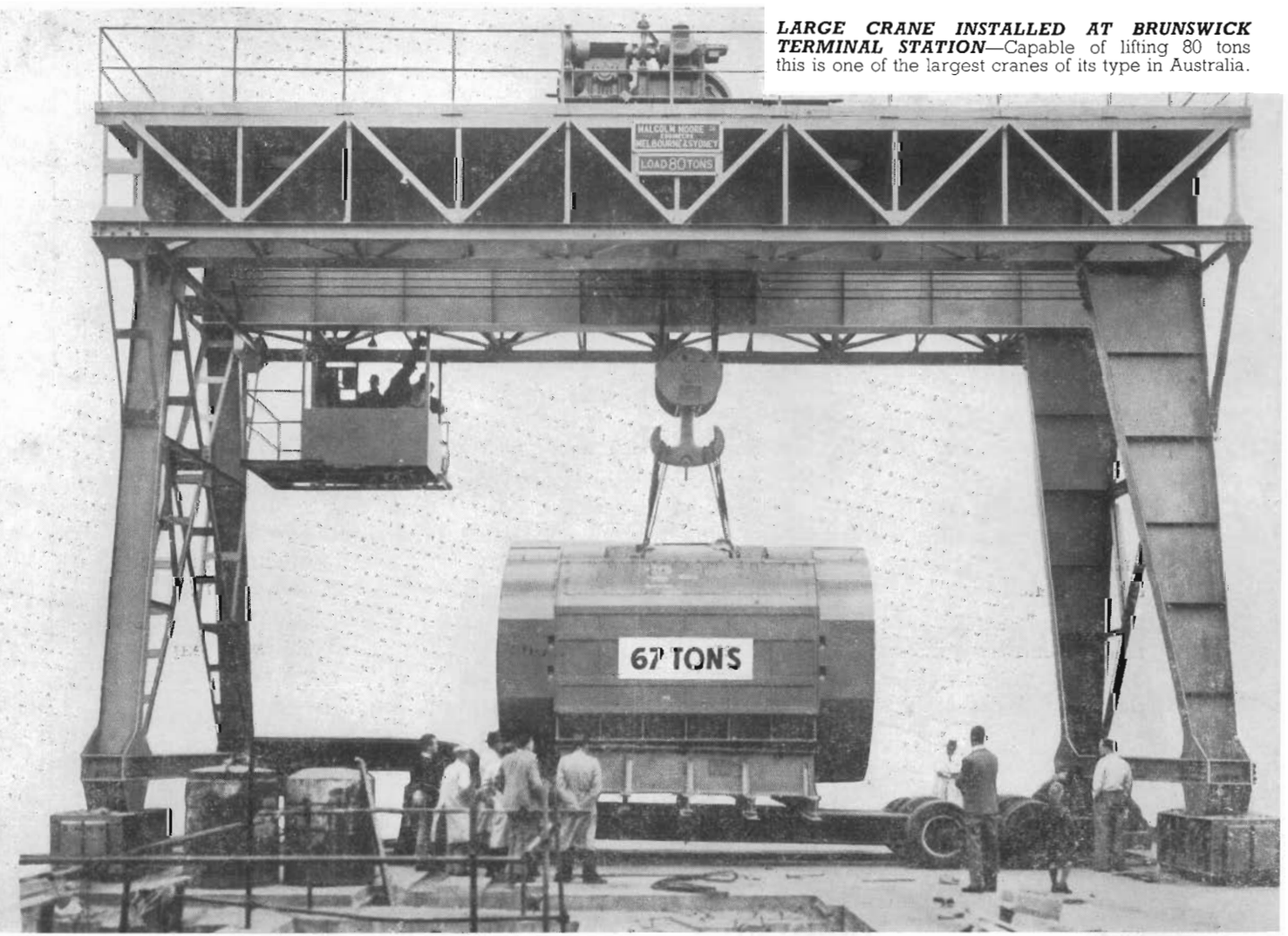
MAIN TRANSMISSION AND DISTRIBUTION.

The clearing of the easement and construction of the patrol road for the Kiewa-Melbourne 220 kV transmission line is now 80 per cent. complete. To avoid delays in the erection of the line a substantial portion of the steel required for the towers has been ordered overseas; most of this steel has been delivered, enabling local fabrication to proceed. Also, an order was placed overseas for 100 fabricated towers. Already some of the special conductors for this line have been delivered.

Two 40,000 kVA synchronous condensers (to control voltage over the long 220kV Kiewa Melbourne transmission line) have been delivered to Brunswick Terminal Station. The building for these condensers is in progress and a large 80-ton crane has been installed. At the new Terminal Station at Sunshine, which is to cater for the rapid industrial development of the area, one 15,000 kVA transformer has been installed.

New main sub-stations at Prahran ("PR") and Brunswick ("BK") were established during the year and those at Blackburn ("BB") and West Coburg ("NS") are under construction.

LARGE CRANE INSTALLED AT BRUNSWICK TERMINAL STATION—Capable of lifting 80 tons this is one of the largest cranes of its type in Australia.

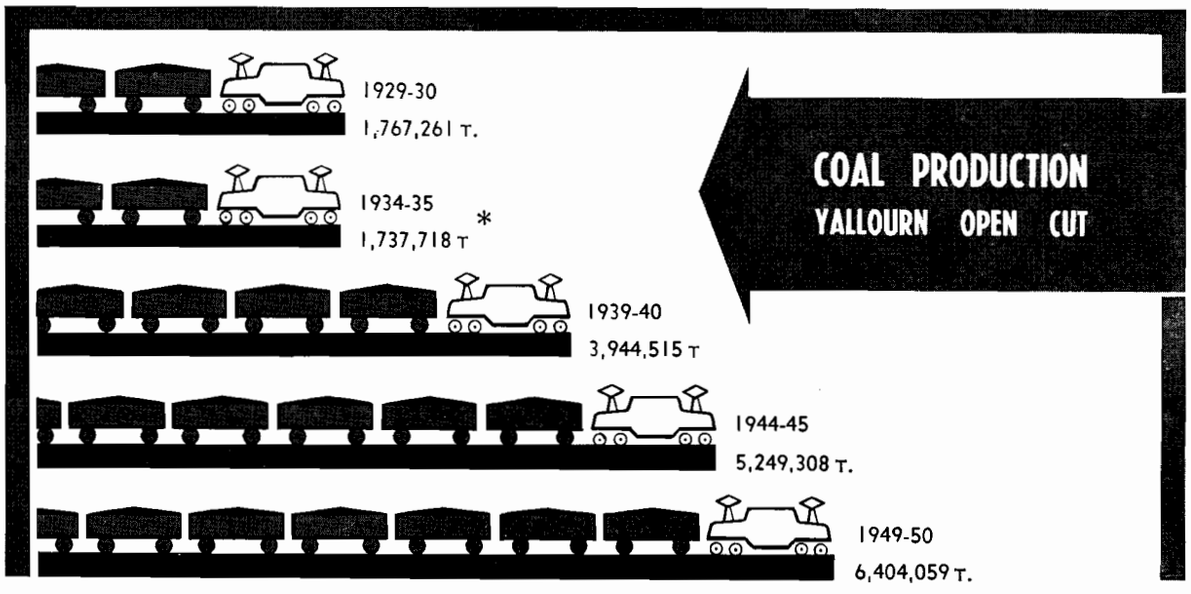


COAL PRODUCTION.

YALLOURN OPEN CUT.

	Tons.
1929–30	1,767,261
1934–35	*1,737,718
1939–40	3,944,515
1944–45	5,249,308
1949–50	6,404,059

*Open cut flooded for portion of year.



Coal Winning.—The year's operations brought the total coal excavated since the commencement of operations to 89·21 million tons. Of the coal won during the year, 4,075,075 tons were delivered to the Yallourn Power Station and 2,328,984 tons to the briquette factory. The highest daily output for the year (22,225 tons) was attained on 13th August, 1949.

Overburden Removal.—2,099,900 cubic yards of overburden were removed, as compared with 1,617,300 cubic yards during the previous year, bringing the total removed at the 30th June, 1950, to 32·84 million cubic yards. The smaller quantity removed last year was due to the overburden dredger being out of operation for 3½ months for major overhaul.

The area of the Open Cut has increased from 595 to 616 acres at grass level and from 520 to 560 acres at the surface of the coal.

Plant.—The two new bridge type trackshifters placed in operation this year have proved satisfactory.

The two dredgers (one for overburden removal and one for coal winning) ordered from Germany in 1946 and 1947 have been erected at Yallourn and the latter is now operating satisfactorily; the overburden dredger will be ready for service in December, 1950 (see illustrations on p. 29).

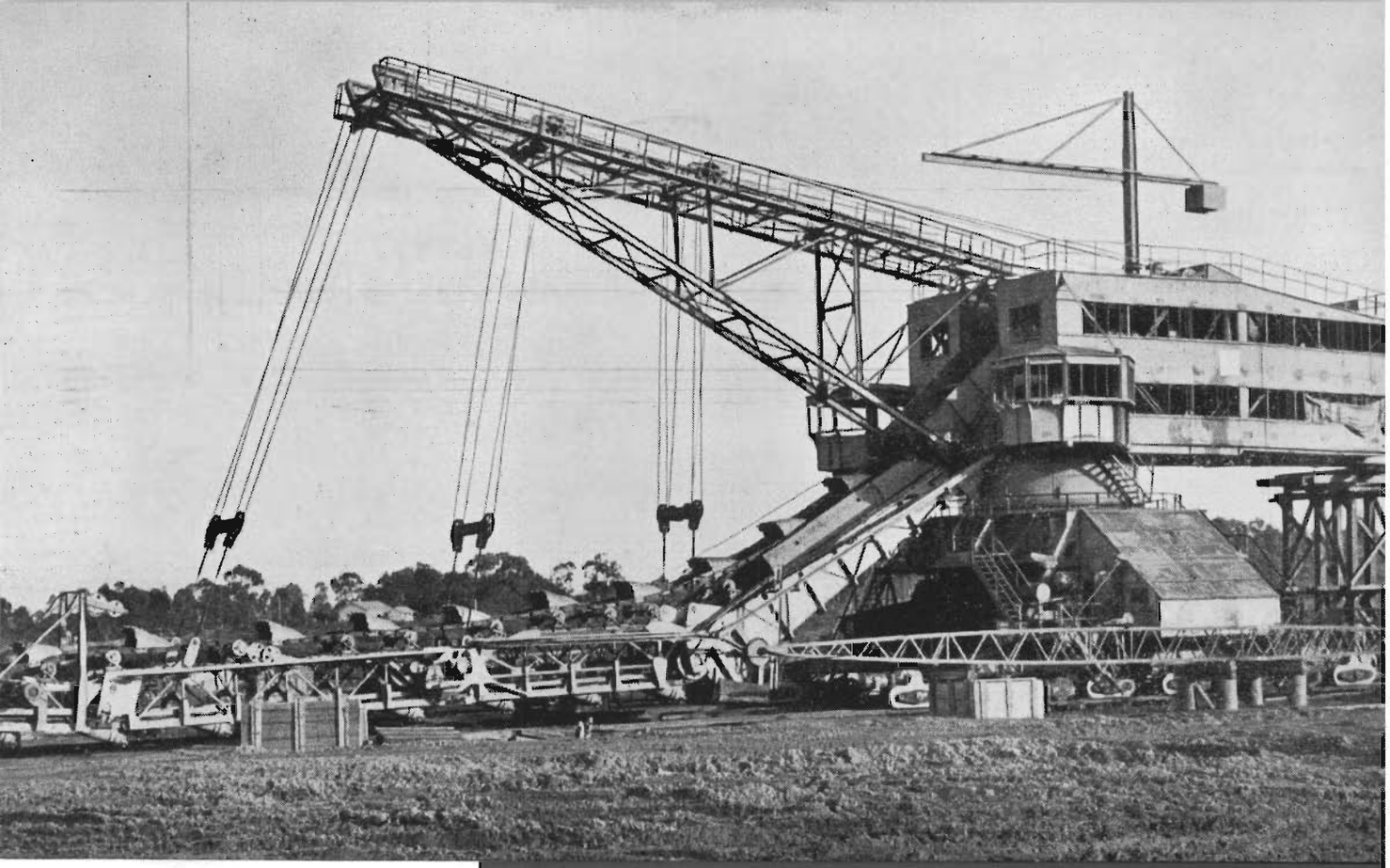
A further bucket wheel dredger for coalwinning (output 400 tons per hour) has been ordered from Germany for completion by the end of 1951. Manufacture of the overburden spreader in Germany is proceeding satisfactorily and shipment of parts has commenced.

YALLOURN NORTH OPEN CUT.

764,131 tons of coal were produced during the year for power generation at Newport and important industries, compared with 471,873 tons last year, making a total of 3,173,360 tons produced since the Commission commenced operations at this cut in 1924.

The Country Roads Board assisted with overburden removal from early in 1947 until the 12th November last, when the Commission resumed these operations. The co-operation of the Country Roads Board has been of considerable value to the State and help to the Commission, for in that period the output of raw brown coal from Yallourn North increased from approximately 50,000 tons per annum to the present production of over 764,000 tons.

On Thursday, 29th June, after a night of heavy rain, approximately 300,000 cubic yards of earth and coal slipped into the open cut. Precautions had been taken following earlier evidence of earth cracks, with the result that there was no injury to persons and property damage was reduced to a minimum; coalwinning output was maintained.



Overburden dredger (can excavate 40ft. above or 42 ft. below the rail level of the machine; output 1,000 tons per hour). Machine will be in operation before the end of 1950.

●

Bucket wheel coal dredger (excavating height 60 ft.; output 500 tons per hour) is now in operation.

NEW DREDGERS FROM GERMANY FOR YALLOURN OPEN CUT

POWER PRODUCTION.

The State generating system comprises interconnected power stations at Yallourn, Melbourne (Newport, Richmond, and Spencer Street, City), Kiewa, Sugarloaf-Rubicon, Geelong and Ballarat. The Commission also operates a regional station at Hamilton.

Terminal Stations are located at Melbourne (Richmond, Yarraville, Brunswick, Thomastown, East Malvern and Sunshine), Rubicon "A", Ballarat and Geelong. The transmission system includes the lines from the inter-connected power stations to the terminal stations and from the terminal stations to the main metropolitan sub-stations, together with the lines linking the main sub-stations. Electricity is transmitted to the Commission's various Electricity Supply Branches, Melbourne and Country, and also to those Melbourne municipal undertakings which purchase in bulk.

Under emergency conditions, frequency changers are used for supply to and from the Victorian Railways System (25 cycle), the maximum capacity being 22,000 kW.

The installed capacity of generating plant at the 30th June, 1950:—

STATE GENERATING SYSTEM.

	kW
Thermal Stations—	
Yallourn (including Briquette Factory) ..	183,000
Melbourne—	
Newport	198,000
Spencer Street	43,650
Richmond	15,000
Geelong	10,500
Ballarat	5,900
Hydro Stations—	
Sugarloaf-Rubicon	26,415
Kiewa (1st stage)	26,000
Total	508,465

Notes:—1. At Newport and Spencer Street Stations, generators could not be used to full capacity because of limitations on boiler capacity. Arrangements are in hand to overcome these limitations.

2. The Commission operates a thermal station at Hamilton (installed capacity 1,987 kW), which is not connected to the State system.

Details of the loading (*a*) on power stations throughout the State and (*b*) on Commission's power stations are given in Appendices Nos. 6 and 7.

LOADING ON COMMISSION'S POWER STATIONS.

Power Stations.	Maximum Demand (kW).		kWh Generated (millions).	
	1949–50.	1948–49.	1949–50.	1948–49.
Thermal Stations—				
Yallourn (including Briquette Factory) ..	188,000	194,000	1,287·6	1,291·6
Melbourne—				
Newport	175,000	138,000	717·8	513·6
Spencer Street	41,910	35,220	105·4	77·0
Richmond	15,600	15,600	26·6	26·1
Geelong	11,950	11,800	28·6	32·9
Ballarat	6,000	5,850	15·6	18·8
Hamilton—not connected to State system ..	1,382	1,290	5·2	4·5
Hydro Stations—				
Sugarloaf-Rubicon	26,050	25,550	129·2	139·1
Kiewa	28,500	28,000	46·8	44·4
	Maximum Coincident Demand.		Total kWh.	
	504,090	436,930	2,362·8	2,148·0

The increased requirements were met principally by the Newport power station. The load factor of the Yallourn station was 79.0 per cent., the highest yet recorded. The high maximum demand at this Station in 1948-49 was due to severe overload conditions; it has been possible during 1949-50 to partly relieve this overloading.

BRIQUETTE PRODUCTION AND DISTRIBUTION.

	Tons
1929–30	161,708
1934–35	288,240
1939–40	428,389
1944–45	431,344
1949–50	588,564

Production was 29,665 tons higher than last year and is the highest yet achieved. By-product electricity amounted to 102·3 million kWh, of which 69·6 million kWh were delivered to the State supply system, the remainder being used at the factory.

A new twin briquette press (No. 13) was installed in "B" factory. Special attention has been given to dust extraction at all factories—some of the plant at the "C" factory has been remodelled and its effectiveness improved considerably, similar conversions are to be made at "A" and "B" factories. For "A" factory new electric precipitation plant for drier stacks is being obtained from Germany. Completion of these measures, together with the replacement of two short chimney stacks, will do much to solve the dust problem at Yallourn.

Distribution

Sales (excluding Commission Power Stations—366,161 tons)	214,012 tons
Revenue	£436,862
Expenditure	£455,408
Loss	£18,546

Loss on operations (£18,546) is higher than the previous year (£10,540); briquette prices were increased by 5s. 6d. to £1 10s. per ton f.o.r. Yallourn as from 1st April, 1950, to meet the rising costs of production.

Output continues to be allocated by the Victorian State Coal Committee between the Commission's power stations and industrial users. There is still no prospect of early resumption of domestic sales.

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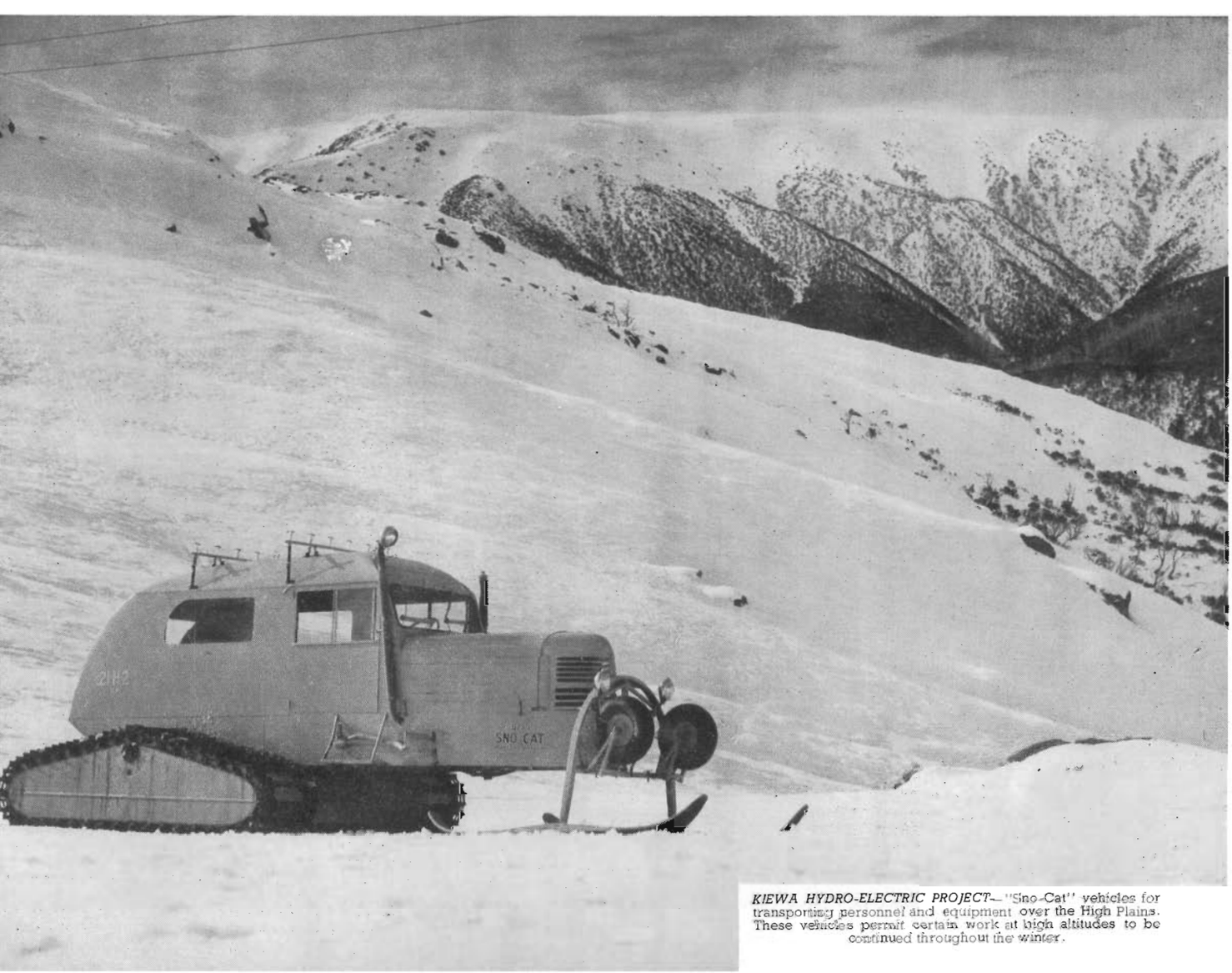


KIEWA HYDRO-ELECTRIC PROJECT—"Sno-Cat" vehicles for transporting personnel and equipment over the High Plains. These vehicles permit certain work at high altitudes to be continued throughout the winter.

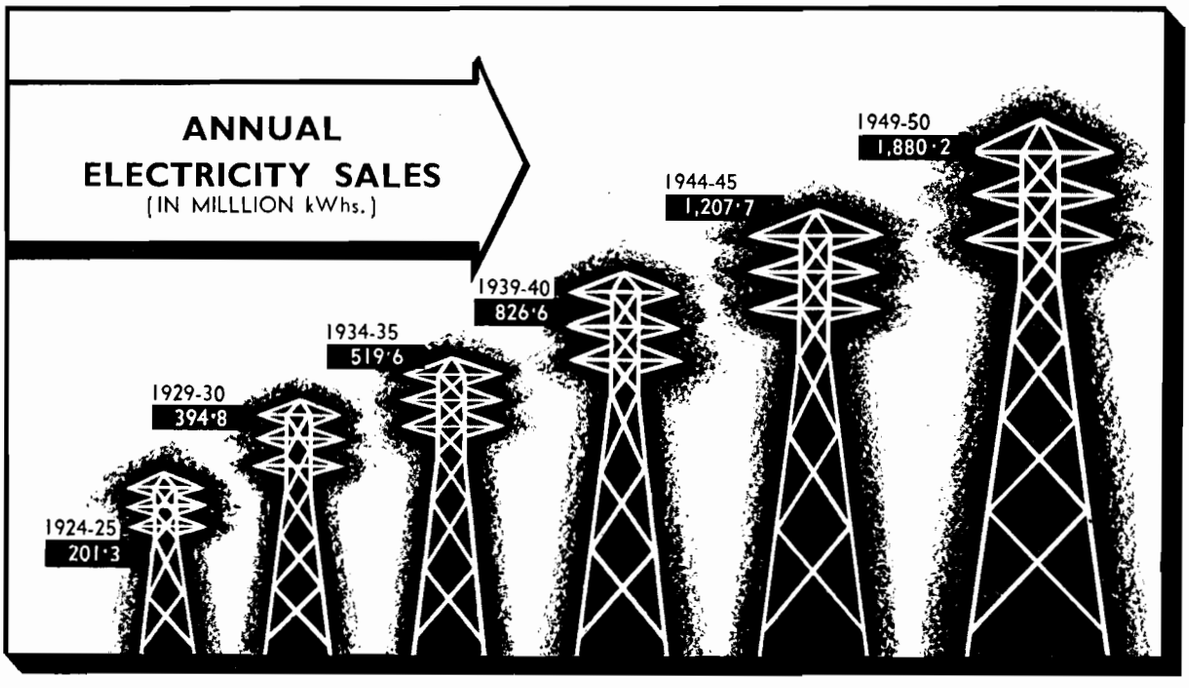
ELECTRICITY SUPPLY.

ANALYSIS OF DEVELOPMENT.

Electricity sold to all consumers, including bulk supplies, increased by 9·0 per cent. (155 million kWh) as compared with 13·4 per cent. (204 million kWh) (1948–49) and 13·2 per cent. (177 million kWh) (1947–48). The smaller increment this year reflects the restrictions on the installation of hot water services, reduction of wattages of public lamps, and the adverse effect on electricity consumption of the prolonged coal and tramway strikes.

Annual Electricity Sales.

	kWh (million)
1924–25	201·249
1929–30	394·787
1934–35	519·567
1939–40	826·623
1944–45	1,207·676
1949–50	1,880·171



Domestic.—Total domestic sales increased by 19·3 per cent. and there were 16,315 new domestic consumers.

The increase in the average consumption for the last five years is as follows:—

	Average Consumption per Domestic Consumer.	Increment kWh.
1945–46	928	90
1946–47	1,015	87
1947–48	1,151	136
1948–49	1,370	219
1949–50	1,556	186

The lower increment of 186 kWh this year results from the fewer hot water services installed; otherwise the rapid expansion in the use of electricity for domestic purposes has continued.

Commercial.—Sales increased by 7·6 per cent. over last year.

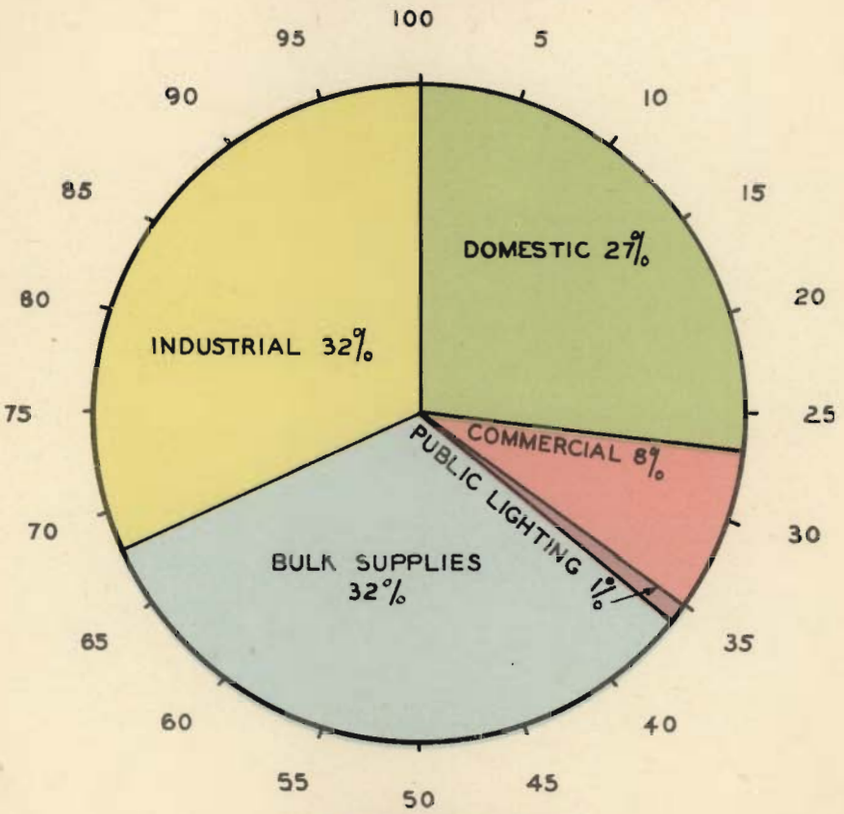
Industrial.—The steady increase in industrial sales has continued (5·3 per cent.) despite severe restrictions for five weeks during the general coal strike (July and August, 1949). An additional 22,741 h.p. of motors were connected.

Mining.—Sales to this industry increased by 14·3 per cent., primarily through the extension of dredging operations at Amphitheatre—47 mines are supplied.

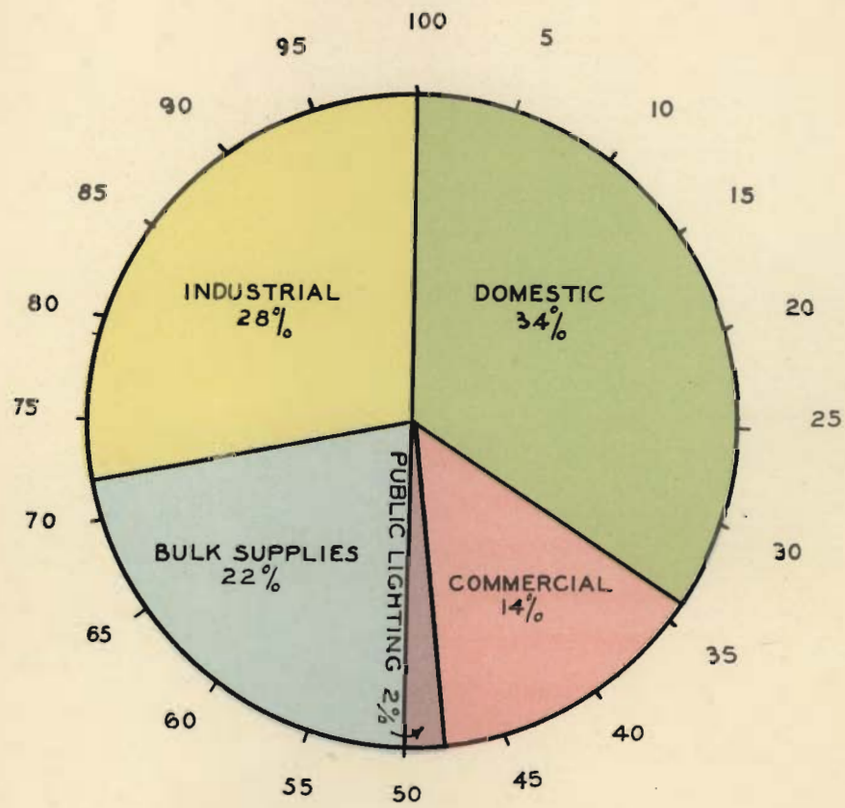
Rural.—Reference is made earlier in this report to the progress of rural development. The greater application of electricity and the new farms connected increased rural electricity sales for the year by 12·3 per cent.

ELECTRICITY SALES AND REVENUE
SUBDIVISIONS ACCORDING TO CLASSES OF CONSUMERS.
YEAR ENDED 30 TH. JUNE 1950

SALES
TOTAL 1880·2 MILLION KWHS.



REVENUE
TOTAL £9,446,008



COMMISSION'S UNDERTAKINGS FOR LOCAL DISTRIBUTION.

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

Revenue increased by £1,005,664 (15·9 per cent.) to £7,343,417.

Sales of Electricity increased by 104,899,664 kWhs (9·0 per cent.) to 1,266,619,187 kWhs.

Consumers increased by 18,870 (5·1 per cent.) to 391,005.

Branch.	Area of Supply (Sq. Miles).	Number of Consumers.	Electricity Sold kWh. (Millions).	Increase this Year.				Number of Farms Supplied.
				Sub-stations.		Distribution Lines.		
				No.	Capacity, kVA.	H.V. Route Miles.	L.V. Route Miles.	
Metropolitan ..	252·7	224,774	814·910	35	16,525	12·4	44·6	*1,223
Ballarat	241·7	16,043	33·931	23	1,295	28·5	28·8	609
Bendigo	222·8	11,739	25·822	8	2,160	15·6	9·3	392
Geelong	163·6	18,587	66·650	12	2,370	4·9	15·9	557
E. Metro.	728·0	38,383	90·856	82	12,660	57·3	71·0	2,872
Gipps. (incl. Yallourn)	1,218·0	26,763	81·872	54	9,140	68·5	66·1	4,013
Midland	570·0	10,648	23·283	40	1,220	20·3	30·8	759
North Eastern	1,870·8	25,380	86·250	72	8,845	83·3	51·9	2,815
South Western ..	1,050·7	18,688	43·045	40	1,666	73·1	33·0	2,501
TOTAL	6,318·3	391,005	1,266·619	366	55,881	363·9	351·4	15,741

* Principally poultry farms and market gardens in the outer metropolitan area.

BRANCH TRANSMISSION AND DISTRIBUTION.

Reconstruction of the South Western main transmission line for 66 kV has been completed from Geelong to Panmure. The section between Panmure and Warrnambool is well advanced.

The 66 kV lines, Colac to Camperdown and Benalla to Shepparton, are being duplicated and the Shepparton main sub-station is under reconstruction.

The operation of the Yallourn to Warragul line (completed two years ago) at 66 kV awaits delivery of equipment for the Warragul main sub-station. 66 kV lines, Yallourn to Leongatha and Mentone to Mornington, were completed; the latter will operate at 22 kV until a Terminal Station is established at Heatherton.

In the year under review the following principal country extensions were completed or were nearing completion at the 30th June, 1950:—

Ballarat Branch
Napoleons–Cambrian Hill; Warrenheip–Dunstown–Navigators; Bullarook–Dean–Mollongghip.

Bendigo Branch
Junorton; Dingee to the Calivil rural area; Burnewang South Soldier Settlement.

Eastern Metropolitan Branch
Baxter; Main Ridge; Yarra Junction; Wesburn; Millgrove; Westall Road, Springvale; Greensborough North and Greenhills; Clyde and Clyde North.

Gippsland Branch
Tarwin East; Anderson's Hill; Jeetho West; Longwarry North; Moe Housing Commission Estate.

Midland Branch
Tarnagulla; Amphitheatre.

North Eastern Branch
Gundowring–Dederang; Buffalo River; Moyhu; Yarroweyah Soldier Settlement; Glenrowan.

South Western Branch
Tarrington and Tabor area; Timboon; Marida Yallock Soldier Settlement (Stage 2).

TRAMWAYS—BALLARAT, BENDIGO AND GEELONG.

Revenue £171,504 : Loss £125,989

A loss of £125,989 was sustained in the operation of the three tramway systems compared with a loss of £108,441 last year. Losses at Ballarat, Bendigo and Geelong were £31,783, £44,097 and £50,109 respectively.

Total revenue £171,504, increased by £23,707 (16·0 per cent.), principally due to the increased fares applied from 15th September, 1949. No less than 13 per cent. fewer passengers were carried. In some measure this is due to the increased fares, but primarily it results from the greater use of private motor vehicles after petrol restrictions were lifted.

Total expenditure—£297,493—increased by £41,255 (16·1 per cent.) because of the upward trend in wages and cost of materials.

YALLOURN TERRITORY.

Population.—7,622, of whom 4,217 are resident in the Town of Yallourn.

Housing.—As mentioned in previous reports, the town has reached its maximum development; 29 residences were completed during the year, bringing the total to 1,044.

At Moe contracts have been let by the Housing Commission for 638 houses, 460 of which have been completed. At 30th June, 1950, 321 of these houses were occupied by Yallourn employees.

Reference is made earlier to the project for erection of 700 English pre-cut houses at Newborough and 350 houses at Yallourn North. At these locations 60 and 54 houses respectively were occupied at 30th June.

Adjacent to the Western Hostel an additional 20 temporary houses have been erected for contractors' employees, bringing the total of this type of house to 72.

Hostels and Accommodation for Single Men.—Much progress has been made in providing accommodation for single men. At the Western Hostel, 1,177 men are housed; there are 633 at Yallourn North, and 455 at the new Eastern Hostel—a total of 2,265, compared with 1,559 last year. When fully developed, these hostels will cater for 2,860 men.

Sewerage of the Town.—The construction of reticulation sewers is proceeding as rapidly as resources will permit; at the 30th June, 239 houses and 25 public buildings had been connected.

Hospital and Medical Services.—These are administered by the Yallourn Medical and Hospital Society, financed by regular contributions from all employees. The hospital accommodates 44 (emergency capacity 50), and the daily average number of occupied beds was 33, compared with 35 last year.

In view of the rapidly increasing population in the Yallourn area, the hospital is being extended to provide for a further 16 beds: the extensions are now well advanced.

Shopping Facilities.—Earlier reports have referred to the project to erect shops for private traders in the area between Broadway, Centreway and Green Street. The first section, comprising five shops, was completed in 1949: the second stage (12 shops) has now been completed and occupied.

Five shops have also been completed and leased in North End Road adjacent to the Western Hostel.

Infant Welfare Centre.—The Centre was officially opened in November, 1949, and is being conducted under the supervision of the Department of Health.

Yallourn Hotel.—The temporary building to provide additional bar accommodation was completed during the year and has relieved the undesirable conditions from serious overcrowding. It is not a permanent solution to the need for improved hotel facilities for the town and the territory.

Moe–Yallourn Railway.—Construction by the Railways Construction Branch of the railway link between Moe and Yallourn to replace the present link with Herne's Oak and the provision of additional marshalling yards at Yallourn is in progress.

Yallourn Town Advisory Council.—During the year Mr. A. E. Fewster retired by effluxion of time and was re-elected unopposed as a member of the Council for a further three years. A further vacancy followed the resignation of Mr. R. Edmondson, who is not now a resident, and Mr. P. Moncur was elected as a member until the next election.

PUBLIC SAFETY AND OTHER REGULATORY RESPONSIBILITIES.

ELECTRIC LIGHT AND POWER ACT 1928.

At the close of the financial year, 43 municipal councils and 21 companies or persons were operating local electricity supply undertakings under the provisions of this Act.

The Governor in Council approved the following Orders in Council:—

(a) *Authorising Supply of Electricity—*

Order No.	Undertakers.	Area of Supply.
264	Goroke Freezing and Trading Co. Pty. Ltd.	Township of Goroke (Replacing Order No. 246 now revoked).
265	Orbost Butter Produce Co. Ltd.	Township of Orbost (Renewal).

(b) *Revoking Orders in Council—*

Order No.	Undertaker.	Area of Supply.	Reason.
196	Kerang Shire Council	Township of Koondrook	Area now covered by Crder No. 256.

Order No. 260 (Township of Walwa) was transferred from O. A. Hoffmann to Mrs. B. R. McCausland.

Extensions (totalling 1,116 kW) to generating plants at Beulah, Cohuna, Donald, Horsham, Manangatang and Murtoa were approved.

Inspections were made of 47 electricity supply undertakings, in addition to newly installed generating plants and high voltage systems; complaints of unsatisfactory service also were investigated.

WIRING REGULATIONS.

On 22nd February, 1950, the "Wiring Regulations", which prescribe the quality of materials, fittings and apparatus to be used in connection with electrical installations and methods to be followed in carrying out electrical wiring work and installations throughout the State, were re-gazetted with minor amendments (Victoria Government Gazette No. 142).

LICENSING OF ELECTRICAL MECHANICS.

Licences in force as at 30th June, 1950—Grade "A" 3,039; Grade "B1" 160; Grade "B" 895; Grade "C" 870. The total of licences in force is 75 per cent. greater than in 1939.

Two licensing examinations (including theory and practice) were held.

Special conditional permits were issued—998 for periods not exceeding six months, and 525 for periods not exceeding twelve months.

REGISTRATION OF ELECTRICAL CONTRACTORS.

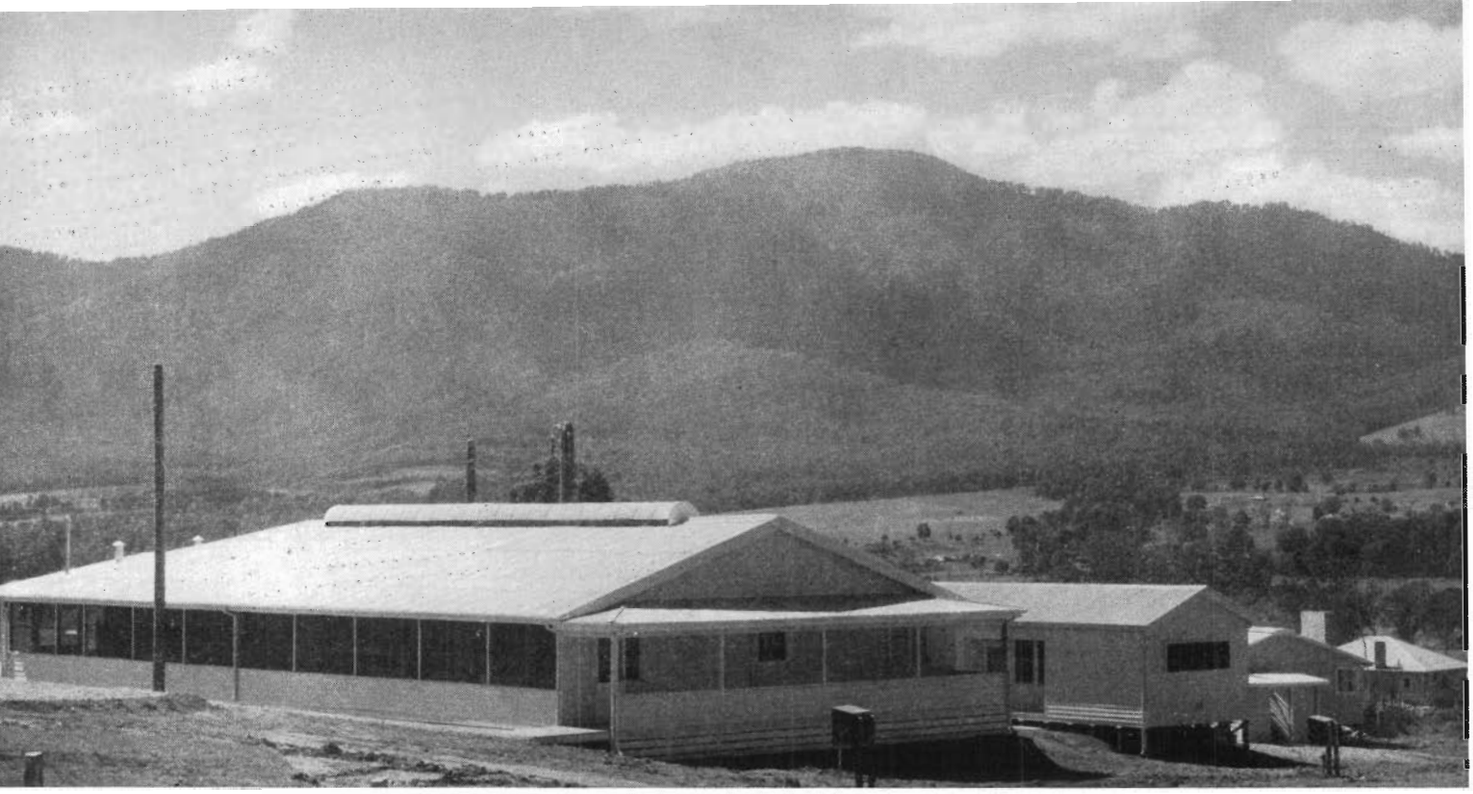
At 30th June, 992 registrations were in force—129 more than last year and 90 per cent. more than in 1939.

ELECTRICAL APPROVALS BOARD.

Under the Board's constitution two of its members retire each year. Mr. A. T. Williams and Mr. L. J. Forbes were appointed to represent the interests of electricity supply undertakers and Victorian manufacturers respectively, replacing the late Mr. J. A. Carmody, whose death was reported last year, and Mr. H. C. Condie, who, because of ill-health, did not desire re-appointment. The Commission records its appreciation of the valued services rendered by Mr. Condie as a member of the Board during the past 12 years.

ELECTROLYSIS MITIGATION.

The Technical Sub-Committee has continued its work of investigating conditions and instituting remedial measures. Faults on telephone cables were less than half those occurring during the previous year, but there was a small increase in the number of faults on water mains.



TAWONGA DISTRICT GENERAL HOSPITAL.

First Stage—Established in conjunction with Hospitals and Charities Commission and Local Hospital Committee—Building (accommodation 14 beds) provided by the Commission will be used by Kiewa personnel and other residents.

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BEDS IN HOSPITAL WARD.

PERSONNEL.

TOTAL PERSONNEL.

	30-6-50	30-6-49
Staff	5,107	4,325
Wages	13,152	10,437
	18,259	14,762

Wages Employees at 30th June, 1950.

Location of Wages Personnel.	Operation.	Construction.
Power Generation	1,230	3,056
Main Transmission Lines, Terminal and Sub-stations	387	507
Electricity Supply—Metropolitan Branch Distribution	367	98
Electricity Supply—Country Branch Distribution	500	567
Briquette Production and Distribution	463	423
Coal Winning—Yallourn	1,026	—
General Services—Town and Workshops—Yallourn	1,435	991
General Services—Workshops—elsewhere	1,533	256
Tramways—Ballarat, Bendigo, Geelong	313	—
Total	7,254	5,898
Grand Total ..	13,152	

GENERAL.

Labour turnover is still abnormal; nevertheless, it has been possible to increase total personnel by 3,497 during the year. The Commission's Industrial Officer (Mr. J. A. P. Gerrard) visited the United Kingdom and Malta to secure tradesmen for Yallourn and Morwell. As an outcome the Commission directly sponsored over 600 migrants to the 30th June, 1950. Altogether 703 United Kingdom migrants, 593 "New Australians", 207 Maltese and 31 Dutch migrants have been employed: requests have been lodged with the Immigration Authorities for a further 836 British and 690 Continental migrants.

EDUCATION AND TRAINING.

For the year under review 62 Commission trainees were engaged on full-time studies at the University or Technical Colleges, and 162 trainees were pursuing part-time courses.

Within the Commission—13 graduates, 73 cadets and 41 engineering assistants are receiving special training; 234 men completed the course at the Training School for Linesmen; there are 352 apprentices, principally in the engineering trades, and 85 trainee tradesmen employed under the Commonwealth Rehabilitation Scheme. A scheme has been introduced to train Survey Assistants.

Those engaged in all these training plans have made excellent progress: 24 qualified for university degrees and 7 received diplomas.

SCHOLARSHIPS.

During the year the Commission awarded two scholarships for University courses in Engineering and two scholarships for Technical School Diploma courses.

WELFARE AND AMENITIES.

Recreation buildings have been completed at Yallourn North, Kiewa (Mt. Beauty and Clover Flat). Welfare services at Yallourn and Kiewa are in the hands of the Y.M.C.A. and are much appreciated by the personnel.

Accommodation for 400 single migrants has been provided at three hostels in the metropolitan area.

SAFETY.

Safety and accident prevention measures are centered in the Safety Officer and four regional safety supervisors, who co-ordinate the work of sectional, branch and departmental safety committees. Safety measures are being constantly reviewed and special attention is given to safety education and first-aid training.

COMMISSIONERS.

The Government appointed Mr. R. A. Hunt, D.S.O., B.C.E., M.I.E.Aust., to be Chairman of the Commission for a period of seven years as from the 1st September, 1949. The Governor in Council also approved Mr. Hunt's appointment as General Manager of the Commission. At the time of his appointment Mr. Hunt was General Superintendent, Yallourn, and has served the Commission since 1921.

Pending this appointment, the Government appointed Commissioner W. D. Chapman, M.C.E., D.Eng., M.Inst.C.E., M.I.E.Aust., to be Deputy Chairman from the 11th May to 30th June, 1949, and to be Chairman from the 1st July to 30th August, 1949. The Commission recorded the following minute in appreciation of the services of Dr. Chapman:—

> "During Dr. Chapman's term of office, important steps were taken to advance further the Commission's construction programme, notably the placing of contracts to the value of nearly £9,000,000 for the supply of steam raising, electricity generating and briquetting plant to enable the main power system to be augmented during the critical period 1951–52. The Commission counts itself fortunate in having the benefit of Dr. Chapman's advice, engineering experience and enthusiastic leadership over this period, realising also that as he continues as a Commissioner, the State's undertaking still will be enabled to draw upon Dr. Chapman's knowledge and advice."

During the absence abroad of Mr. Commissioner A. W. Henderson, Professor J. A. L. Matheson, M.B.E., M.Sc. (Manch.), Ph.D. (Birm.) M.C.E., A.M.Inst.C.E., A.M.I.Struc.E., M.I.E. Aust., was appointed as a Commissioner. Professor Matheson's appointment continued during the illness of Mr. Commissioner Andrew W. Fairley and while Commissioner W. D. Chapman attended as an Australian representative at the conference in South Africa of the Engineering Institutes of the British Commonwealth. This temporary appointment ceased on the 8th June, 1950. The Commission profited considerably from Professor Matheson's engineering knowledge and experience: it is grateful for his ever-ready co-operation, and records its congratulations on his appointment to the Beyer Chair of Engineering at the Manchester University.

STAFF.

RETIREMENTS.

The Commission records its high appreciation of the services rendered over long periods by:—

Mr. E. Bate, M.C., B.Sc., Whit.Schol., A.M.I.E.Aust., Chief Engineer, who retired on the 31st December, 1949, after nearly 29 years' service with the Commission. In 1936 he was appointed Chief Engineer, Power Production, and, in 1945, as Chief Engineer. Mr. Bate continues to serve the Commission in a consultant capacity.

Mr. C. B. Boehm, Dip. Eng., Briquette Production Engineer, who retired on the 19th March, 1950, after 27 years' service.

Mr. A. L. Galbraith, B.C.E., A.M.I.E.Aust., A.M.Inst.C.E., A.M.Am.Soc.C.E., Civil Engineer, who retired on the 30th June, 1950, after 30 years' service.

Mr. J. M. Pollock, A.M.I.E.Aust., Chief Draftsman, who retired on the 27th October, 1949, after 31 years' service.

RESIGNATIONS.

Mr. E. L. J. Merigan, B.E.E., M.I.E.Aust., Electrical Engineer, resigned on the 24th February, 1950, after 24 years' service, to take up the important post of Associate Commissioner, Snowy Mountains Hydro-Electric Authority.

Mr. M. C. Cox, B.C.E., A.M.I.E.Aust., Construction Liaison Engineer, resigned on the 19th May, 1950, after 26 years' service, to take up a senior appointment with a large private engineering firm.

PRINCIPAL APPOINTMENTS.

Mr. W. H. Connolly, B.E.E., B.Com., A.M.I.E.Aust., was appointed Assistant to the General Manager as from 1st September, 1949. At the time of his appointment Mr. Connolly was Engineer and Manager, Electricity Supply, and has served the Commission since 1921.

Mr. C. H. Kernot, M.I.E.Aust., M.Am.Soc.C.E., was appointed Chief Engineer as from 1st January, 1950. Mr. Kernot was previously Deputy Chief Engineer and has served the Commission since 1920.

Mr. W. Morrison, B.Sc. (Eng.), M.Inst.C.E., was appointed General Superintendent, Yallourn, as from 1st September, 1949. Mr. Morrison was previously Engineer for Fuel Production, and has served the Commission since 1921.

Mr. K. Sutherland, M.C., M.E.E., M.I.E.Aust., was appointed Engineer and Manager, Electricity Supply, as from 1st September, 1949. Mr. Sutherland was previously Manager, Electrical Development Division, and has served the Commission since 1921.

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The Commission again with pleasure and appreciation places on record the splendid service being rendered to the community by the efficiency and loyalty of the personnel engaged throughout the many phases of its activities. The vast programme of new works and the planning and execution of future power and fuel developments referred to in this report indicate the magnitude of the task so willingly accepted by all.

We have the honour to be, Sir, your obedient servants.

R. A. HUNT, Chairman.

ANDREW W. FAIRLEY, Commissioner.

W. D. CHAPMAN, Commissioner.

A. W. HENDERSON, Commissioner.

W. J. PRICE,
Secretary,
9th November, 1950.

PROFIT AND LOSS ACCOUNT, BALANCE SHEET AND FINANCIAL STATISTICS.

STATE ELECTRICITY COMMISSION OF VICTORIA.

GENERAL PROFIT AND LOSS ACCOUNT FOR YEAR ENDED 30th JUNE, 1950.

(Adjusted to the nearest £.)

1949.	EXPENDITURE—	£	£	1949.	INCOME—	£	£
£	**Electricity Supply—**			£	**Electricity Supply—**		
397,575	Purchased Electricity	556,649		1,789,398	Bulk Supplies	2,099,332	
4,746,300	Generation, Transmission and Distribution *	6,096,554		160,732	Public Lighting	150,590	
1,346,642	Interest	1,489,742		2,672,360	Domestic	3,265,243	
367,220	Depreciation and Sinking Fund §	404,104		2,059,050	Industrial—General	2,355,192	
651,380	Administration and General Expense	829,468		41,706	Industrial—Mining	51,239	
				223,009	Traction	204,112	
7,509,117		9,376,517		1,174,477	Commercial	1,311,004	
58,808	*Deduct*—Electricity transferred to Works	91,962		9,241	Miscellaneous	9,296	
7,450,309			9,284,555	8,129,973			9,446,008
	Briquetting—				**Briquetting**		
908,409	Manufacture and Distribution*	1,123,218		350,299	Briquette Sales	413,471	
81,129	Interest	89,074		40,270	*Add*—Briquettes on hand end of year	63,661	
36,351	Depreciation and Sinking Fund§	37,899		390,569		477,132	
38,566	Administration and General Expense	50,237		90,292	*Deduct*—Briquettes on hand beginning of year	40,270	
1,064,455		1,300,428					
753,638	*Deduct*—Briquettes transferred to Works	845,020					
310,817			455,408	300,277			436,862
	Brown Coal				**Brown Coal**		
229,922	Winning and Distribution*	526,917					
10,554	Interest	16,040					
1,112	Depreciation	4,812					
5,423	Administration and General Expense	15,518					
247,011		563,287					
85,228	*Deduct*—Brown Coal transferred to Works	344,812					
161,783			218,475	194,995	Brown Coal Sales		244,100
	Tramways—				**Tramways—**		
215,952	Power and Traffic Expenses*	240,442		147,052	Traffic Receipts	170,906	
7,353	Interest	7,526		745	Advertising, Rents, etc.	598	
32,933	Administration and General Expense	49,525					
256,238			297,493	147,797			171,504
158,088	Sinking Fund Contributions	—		25,443	Interest on Investments		27,200
32,823	Loan Flotation Expense	50,000		7,333	Miscellaneous Income		12,983
180,998	Provident Fund Contributions, Long Service Leave and Employees' Retiring Allowances*	211,825					
174,215	Pay Roll Tax	—					
154,246	Miscellaneous Expenses	170,269		73,699	Loss—carried down		349,368
8,879,517		10,688,025		8,879,517			10,688,025
					Transfer in part of amount previously appropriated to—		
73,699	Loss—brought down	349,368		53,000	Deferred Maintenance Reserve		—
29,301	Surplus for year	—		50,000	Rate Stabilisation Reserve		100,000
				—	Deficit for year		249,368
103,000		349,368		103,000			349,368
—	Deficit for year	249,368		29,301	Surplus for year		—
401,032	Accumulated Surplus—30th June	151,664		371,731	Accumulated Surplus beginning of year		401,032
401,032		401,032		401,032			401,032

* Pay-roll tax included herein this year.

§ The following amounts have been transferred this year from the Depreciation provision for Sinking Fund Contributions—
Electricity Supply £203,978
Briquetting £13,182

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

	Revenue.	Expenditure.
1948–49	£336,982	£325,323
1949–50	£445,134	£436,022

STATE ELECTRICITY COMMISSION OF VICTORIA.

GENERAL BALANCE SHEET AS AT 30th JUNE, 1950.

(Adjusted to the nearest £.)

LIABILITIES.

1949. £		£	£
	Capital Liabilities—		
18,457,743	Victorian Government Advances	18,585,219	
2,422,138	*Deduct*—Redeemed or cancelled securities	2,592,617	
16,035,605		15,992,602 *	
	Debentures and Inscribed Stock		
18,102,300	Issued by Commission (See Appendix No. 4)	35,703,011	
325,561	*Deduct*—Redeemed or cancelled securities	437,637	
17,776,739		35,265,374 §	
17,217	Issued by Undertakings acquired by Commission (See Appendix No. 4)	12,091	
			51,270,067
33,829,561			
	Current and Accrued Liabilities		
482,185	Sundry Creditors	899,307	
29,019	Sundry Creditors' Retentions	66,729	
18,159	Consumers' Deposits	21,691	
150,017	Service Charges received in advance	153,234	
6,611	Unclaimed Wages	8,449	
155,709	Consumers' Advances for Construction	168,306	
40,225	Other Deposits and Trust Moneys	67,908	
183,520	Interest Accrued	336,854	
240,007	Salaries and Wages Accrued	284,985	
232,072	Miscellaneous Current and Accrued Liabilities	266,835	
902,060	Bank Overdraft	791,035	
2,439,584			3,065,332
	Reserves—		
14,812,008	Depreciation and Sinking Fund	15,925,004	
1,002,561	Contingency	752,391	
100,000	Rate Stabilisation	—	
1,200,000	Rural Development	1,200,000	
333,957	General	323,029	
17,448,526			18,200,424
401,032	**Profit and Loss Account**		151,664
54,118,703			72,687 488

* Of these totals the undermentioned amounts are deemed to have been raised overseas and to be repayable in Sterling—
30th June, 1950 .. £6,653,166
30th June, 1949 .. £6,665,063

§ These totals include the undermentioned amounts raised in London and repayable in Sterling—
30th June, 1950 .. £841,523
30th June, 1949 .. £857,173

ASSETS.

1949. £		£	£
	Fixed Capital—		
1,891,372	Coal Production	2,142,674	
1,792,417	Briquette Production	1,821,170	
10,200,957	Power Production—Thermal Stations, etc.	11,586,095	
2,743,658	Hydro Stations	3,048,696	
7,696,604	Transmission Systems	8,321,037	
9,349,819	Distribution Systems	10,350,552	
191,898	Tramways	139,220	
5,119,369	General	7,349,208	
8,481,062	Construction Work in Progress	16,749,452	
47,467,156		61,508,104	
140,122	*Deduct*—Proportion of cost of extensions payable by Consumers	149,301	
47,327,034			61,358,803
	Current and Accrued Assets—		
19,407	Cash on hand and in transit	74,125	
923,627	Sundry Debtors	1,287 695	
2,668,322	Materials and Supplies	5,342,903	
38,989	Advances	121,735	
12,293	Investments	12,928	
2,605	Prepayments	26.416	
422,527	Miscellaneous Current and Accrued Assets	566,604	
4,087,770			7,432,406
	Suspense Debits—		
1,071,205	Overburden Removal and Disposal	1,540,228	
69,182	Preliminary Investigations	139,302	
185,740	Unamortised Loan Flotation Expense	331,764	
229,882	Work in Progress	339,755	
25,000	Acquisitions	25,000	
433,539	Miscellaneous	1,125,189	
2,014,548			3,501,238
	Reserve Funds—		
139,817	Sinking Funds	144,208	
549,534	Contingency Fund	250,833	
689,351			395,041
54,118,703			72,687,488

There is a Contingent Asset and a Contingent Liability in respect of securities lodged as bona fides under Contracts to the extent of {£1,054,033 at 30th June, 1950 / £516,505 at 30th June, 1949} held by the Bank on the Commission's behalf.

EDWIN TUCK, Acting Chief Accountant.

R LIDDELOW, Manager
22nd November, 1950

AUDITOR-GENERAL'S CERTIFICATE.

The accounts of the State Electricity Commission of Victoria have been audited for the year ended 30th June, 1950. In my opinion the above Balance Sheet presents a correct view of the affairs of the undertaking at the 30th June, 1950, and the Profit and Loss Account properly summarizes the operations of the Commission for the year.

E. A PEVERILL, Auditor General.
24th November, 1950

STATE ELECTRICITY COMMISSION OF VICTORIA.

SCHEDULE OF FIXED CAPITAL AS AT 30th JUNE, 1950.

(Adjusted to the nearest £)

	Expenditure during 1949/50.	Total Expenditure 30/6/50.
Coal Production	£	£
Yallourn	854,263	3,104,204
Briquette Production		
Yallourn	112,565	2,040,110
Power Production—Thermal Stations, etc.		
Geelong	442	352,975
Newport	773,110	6,007,913
Richmond	346,264	501,863
Yallourn	788,940	6,229,745
South Western—Hamilton (Internal-Combustion Engine Station)	38,449	78,794
Regional Stations	7,357	7,357
Power Production—Hydro Stations		
Kiewa	3,481,006	8,549,946
Sugarloaf—Rubicon	2,285	850,443
Transmission Systems		
Main Transmission Systems	1,036,443	7,027,604
Ballarat Branch	12,878	85,367
Bendigo Branch	7,452	63,277
Eastern Metropolitan Branch	85,649	492,363
Geelong Branch	1,684	45,759
Gippsland Branch	61,385	621,381
Metropolitan Branch	—	14,957
Midland Branch	29,570	195,935
North Eastern Branch	90,246	836,007
South Western Branch	124,349	778,474
Distribution Systems		
Ballarat Branch	50,690	384,725
Bendigo Branch	37,223	291,678
Eastern Metropolitan Branch	209,269	1,125,294
Geelong Branch	44,518	474,054
Gippsland Branch	114,448	877,388
Metropolitan Branch	406,162	5,674,084
Midland Branch	52,542	343,292
North Eastern Branch	137,375	857,698
SouthWestern Branch	65,095	512,790
Yallourn	8,070	52,880
Tramway Systems		
Ballarat Branch	169	16,376
Bendigo Branch	491	18,339
Geelong Branch	233	104,505
General		
Ballarat Branch	5,945	40,079
Bendigo Branch	1,716	55,140
Eastern Metropolitan Branch	21,191	83,078
Geelong Branch	7,815	65,705
Gippsland Branch	16,225	82,938
Kiewa	699,952	1,534,792
Metropolitan Branch	101,849	973,178
Midland Branch	2,206	16,478
Morwell	1,936,925	2,160,766
North Eastern Branch	9,718	70,838
South Western Branch	4,571	48,089
Yallourn	1,509,404	4,768,248
Head Office	1,272,838	2,991,198
	14,570,977	61,508,104
Deduct—Proportion of cost of extensions payable by Consumers	9,179	149,301
	£14,561,798	£61,358,803

Note.—Construction Work in Progress included in above figures is shown separately in the Balance Sheet—

As at 30th June, 1949 .. £8,481,062.

As at 30th June, 1950 .. £16,749,452.

STATE ELECTRICITY COMMISSION OF VICTORIA.

DEBENTURES AND INSCRIBED STOCK—CURRENT AS AT 30th JUNE, 1950.

Loans Raised under the Authority of the State Electricity Commission Acts Nos. 4087 and 4512.

Loan No.	Amount Authorized.	Amount Subscribed.	Rate.	Term.	Due.	Sinking Fund.	Amount Redeemed.	Outstanding as at 30th June, 1950.
State Electricity Commission of Victoria—	£	£	%	Years.		%	£ s. d.	£ s. d.
Loan No. 1	600,000	600,000	3·5	20	1954	1	83,177 0 0	516,823 0 0
Loan No. 2	382,000	382,000	3·5	20	1954	1	57,300 0 0	324,700 0 0
Loan No. 3	100,000	100,000	4	15	1951	1	14,000 0 0	86,000 0 0
Loan No. 7	150,000	150,000	4·25	15	1955	1	..	150,000 0 0
Loan No. 9	300,000	300,000	3·4375	16	1957	1	..	300,000 0 0
Loan No. 10	1,000,000	1,000,000	3·375	10	1955	1	53,490 16 11	946,509 3 1
Loan No. 11	150,000	150,000	3·3125	10	1956	1	4,650 14 2	145,349 5 10
Loan No. 12	1,350,000	1,350,000	3·3125	10	1956	1	41,856 7 6	1,308,143 12 6
Loan No. 13	500,000	500,000	3·3125	10	1957	1	15,502 7 3	484,497 12 9
Loan No. 14	500,000	500,000	3·25	10	1957	1	15,492 15 8	484,507 4 4
Loan No. 15	1,000,000	1,000,000	3·25	15	1962	1	20,325 0 0	979,675 0 0
Loan No. 16	500,000	500,000	3·25	15	1962	1	10,162 10 0	489,837 10 0
Loan No. 17	500,000	500,000	3·25	15	1963	1	10,162 10 0	489,837 10 0
Loan No. 18	1,000,000	1,000,000	3·1875	10	1958	1	20,318 15 0	979,681 5 0
Loan No. 19	720,000	720,000	3·1875	10	1958	1	14,629 10 0	705,370 10 0
Loan No. 20	1,000,000	1,000,000	3·1875	10	1958	1	20,318 15 0	979,681 5 0
Loan No. 21	1,000,000	1,000,000	3·1875	10	1958	1	10,000 0 0	990,000 0 0
Loan No. 22	1,000,000	1,000,000	3·1875	10	1958	1	10,000 0 0	990,000 0 0
Loan No. 23	1,000,000	1,000,000	3·1875	10	1958	1	10,000 0 0	990,000 0 0
Loan No. 24	500,000	500,000	3·1875	10	1958	1	5,000 0 0	495,000 0 0
Loan No. 25	1,340,300	1,340,300	3·1875	12	1961	1	3,250 0 0	1,337,050 0 0
Loan No. 26	1,500,000	1,500,000	3·1875	10	1959	1	15,000 0 0	1,485,000 0 0
Loan No. 27	300,000	300,000	3·1875	12	1961	1	3,000 0 0	297,000 0 0
Loan No. 28	360,000	360,000	3·1875	12	1961	1	..	360,000 0 0
Loan No. 29	2,334,000	2,334,000	3·1875	12	1961	1	..	2,334,000 0 0
Loan No. 30	2,000,000	2,000,000	3·1875	10	1959	1	..	2,000,000 0 0
Loan No. 31	500,000	500,000	3·1875	10	1959	1	..	500,000 0 0
Loan No. 32	1,000,000	1,000,000	3·1875	10	1959	1	..	1,000,000 0 0
Loan No. 33	1,250,000	1,250,000	3·25	12	1961	·5	..	1,250,000 0 0
Loan No. 34	1,000,000	1,000,000	3·25	10	1959	·5	..	1,000,000 0 0
Loan No. 35	1,000,000	1,000,000	3·1875	10	1959	·5	..	1,000,000 0 0
Loan No. 36	400,000	400,000	3·25	15	1964	·5	..	400,000 0 0
Loan No. 37	100,000	100,000	3·25	15	1964	·5	..	100,000 0 0
Loan No. 38	1,000,000	1,000,000	3·1875	10	1959	·5	..	1,000,000 0 0
Loan No. 39	1,000,000	1,000,000	3·1875	10	1960	·5	..	1,000,000 0 0
Loan No. 40	2,488,850	2,453,711	3·25	15	1965	·5	..	2,453,711 0 0
Loan No. 41	1,000,000	1,000,000	3·1875	10	1960	·5	..	1,000,000 0 0
Loan No. 42	1,500,000	1,500,000	3·3125	12	1962	·5	..	1,500,000 0 0
Loan No. 43	1,000,000	1,000,000	3·3125	15	1965	·5	..	1,000,000 0 0
Loan No. 44	193,000	193,000	3·3125	15	1965	·5	..	193,000 0 0
Loan No. 45	220,000	220,000	3·1875	10	1960	·5	..	220,000 0 0
Loan No. 46	450,000	450,000	2·5	2	1952	·5	..	450,000 0 0
Loan No. 47	550,000	550,000	3·3125	12	1962	·5	..	550,000 0 0
Loan No. 48	500,000	..	..	..	..	..	..	..
Loan No. 49	500,000	..	..	..	..	..	..	..
	£36,738,150	£35,703,011					£437,637 1 6	£35,265,373 18 6

ISSUED BY UNDERTAKINGS ACQUIRED BY THE STATE ELECTRICITY COMMISSION OF VICTORIA.

Municipality.	Loan No.	Actual Rate.	Rate Under Financial Emergency Act, etc.	Original Issue.	Date of Acquisition.	Outstanding at Date of Acquisition.	Redeemed since Date of Acquisition.	Outstanding at 30th June, 1950.
		%	%	£		£ s. d.	£ s. d.	£ s. d.
Bendigo.								
Marong Shire	2	5⅞	5	1,700	1.7.31	1,591 17 11	944 15 2	647 2 9
Eaglehawk Borough	9	3¾	3¾	4,500	1.10.35	4,345 9 8	3,024 4 0	1,321 5 8
				6,200		5,937 7 7	3,968 19 2	1,968 8 5
Eastern Metropolitan.								
Healesville Shire	2	6	3⅞	8,000	1.4.33	6,215 0 0	5,935 0 0	280 0 0
,, ,,	3	6½	3⅞	2,000	,,	1,585 0 0	1,510 0 0	75 0 0
,, ,,	9	5¾	5	3,000	,,	2,728 11 2	1,597 8 3	1,131 2 11
Lilydale Shire	16	6½	3⅞	3,000	1.4.25	2,869 12 7	2,651 11 0	218 1 7
,, ,,	16	6½	3⅞	2,000	,,	1,913 1 7	1,767 13 10	145 7 9
				18,000		15,311 5 4	13,461 13 1	1,849 12 3
Gippsland.								
Maffra Shire	1	4¾	4¾	6,500	1.9.24	5,660 0 11	4,810 6 2	849 14 9
Midland.								
Kyneton Shire	3	5¾	3⅝	12,000	1.10.28	10,830 0 0	9,060 0 0	1,770 0 0
Newham and Woodend Shire	2	5	5	750	1.8.29	750 0 0	300 0 0	450 0 0
				12,750		11,580 0 0	9,360 0 0	2,220 0 0
North Eastern.								
Towong Shire	1	4½	4⅛	6,500	1.11.40	4,565 0 0	2,985 9 4	1,579 10 8
Wangaratta Borough	8	6¼	4½	6,500	12.3.27	6,078 12 8	5,381 13 4	696 19 4
,, ,,	9	6	4½	1,500	,,	1,412 2 5	1,256 17 7	155 4 10
Yea Shire	3	6¼	5	6,000	1.5.45	3,390 19 7	1,345 4 0	2,045 15 7
,, ,,	4	5¾	5	500	,,	292 19 3	104 8 9	188 10 6
,, ,,	8	4½	3⅞	1,200	,,	836 0 0	299 0 0	537 0 0
				22,200		16,575 13 11	11,372 13 0	5,203 0 11
				£65,650		£55,064 7 9	£42,973 11 5	£12,090 16 4

STATE ELECTRICITY COMMISSION OF VICTORIA.

ABSTRACT OF CAPITAL, REVENUE AND OPERATING ACCOUNTS.

Year ended 30th June.	Capital.			Revenue.					Operating Expenditure including Writings Off, &c.	+ Surplus. — Deficit.	
	Capital Expenditure.	Loan Liability.	Reserves.	Electricity Supply.	Briquetting.	Tramways.	Miscellaneous.	Total.		Year.	To Date.
	£	£	£	£	£	£	£	£	£	£	£
1925	**7,759,825**	**8,293,765**	**43,936**	**617,286**	**40,468**	..	**41,602**	**699,356**	**963,638**	— **264,282**	— **322,744**
1926	9,032,464	10,120,794	67,616	713,252	122,379	..	19,476	855,107	1,125,077	— 269,970	— 592,714
1927	10,742,104	11,849,698	262,942	975,362	179,184	..	16,124	1,170,670	1,367,324	— 196,654	— 789,368
1928	**12,762,939**	**13,567,546**	**493,935**	**1,262,787**	**192,256**	..	**10,698**	**1,465,741**	**1,463,868**	+ **1,873**	— **787,495**
1929	14,530,684	15,126,107	833,618	1,427,751	226,186	..	7,858	1,661,795	1,657,181	+ 4,614	— 782,881
1930	16,397,608	16,778,413	1,151,139	1,624,255	264,459	..	9,153	1,897,867	1,892,601	+ 5,266	— 777,615
1931	**18,553,592**	**19,286,428**	**1,593,462**	**2,234,756**	**276,930**	**30,971**	**2,236**	**2,544,893**	**2,562,846**	— **17,953**	— **795,568**
1932	19,337,273	19,735,177	2,135,205	2,456,696	357,056	35,450	717	2,849,919	2,846,888	+ 3,031	— 792,537
1933	19,667,259	19,668,146	2,823,912	2,577,547	313,435	34,180	97	2,925,259	2,921,830	+ 3,429	— 789,108
1934	**19,748,318**	**19,109,659**	**3,332,096**	**2,717,992**	**309,936**	**33,510**	**74**	**3,061,512**	**3,028,393**	+ **33,119**	— **755,989**
1935	20,305,078	19,527,309	3,757,812	2,995,707	297,858	77,121	10,098	3,380,784	3,374,306	+ 6,478	— 749,511
1936	20,866,242	18,806,748	4,380,047	3,164,703	348,650	78,207	8,180	3,599,740	3,572,012	+ 27,728	— 721,783
1937	**21,638,314**	**18,682,415**	**5,008,027**	**3,339,560**	**337,227**	**76,142**	**7,500**	**3,760,429**	**3,721,528**	+ **38,901**	— **682,882**
1938	22,698,893	19,242,265	5,672,343	3,539,974	394,634	75,567	1,008	4,011,183	3,957,354	+ 53,829	— 629,053
1939	24,268,880	19,422,927	6,449,707	3,685,107	377,022	78,664	1,099	4,141,892	4,020,992	+ 120,900	— 508,153
1940	**25,369,679**	**20,524,010**	**7,300,198**	**3,894,893**	**400,125**	**78,211**	**3,700**	**4,376,929**	**4,250,416**	+ **126,513**	— **381,640**
1941	26,116,795	20,678,339	8,218,078	4,241,264	379,847	89,571	13,374	4,724,056	4,563,376	+ 160,680	— 220,960
1942	26,955,737	20,523,266	9,256,460	4,657,450	330,756	109,955	55,488	5,153,649	5,069,227	+ 84,422	— 136,538
1943	**28,345,527**	**20,348,116**	**10,460,227**	**4,935,602**	**341,631**	**135,900**	**76,955**	**5,490,088**	**5,348,695**	+ **141,393**	+ **4,855**
1944	29,695,740	20,164,482	11,547,016	5,101,631	316,847	143,086	67,216	5,628,780	5,503,908	+ 124,872	+ 129,727
1945	31,297,130	20,997,826	12,902,334	5,259,881	329,428	146,605	63,247	5,799,161	5,739,953	+ 59,208	+ 188,935
1946	**33,622,088**	**20,927,313**	**14,448,315**	**5,605,333**	**341,761**	**146,503**	**66,588**	**6,160,185**	**6,096,722**	+ **63,463**	+ **252,398**
1947	36,460,148	23,220,783	15,686,004	5,835,194	321,711	142,281	100,328	6,399,514	6,310,109	+ 89,405	+ 341,803
1948	40,523,149	26,990,075	16,566,022	6,543,089	325,181	143,878	135,341	7,147,489	7,360,561	+ 29,928*	+ 371,731
1949	**47,327,034**	**33,829,561**	**17,448,526**	**8,129,973**	**300,277**	**147,797**	**227,771**	**8,805,818**	**8,879,517**	+ **29,301†**	+ **401,032**
1950	61,358,803	51,270,067	18,200,424	9,446,008	436,862	171,504	284,283	10,338,657	10,688,025	— 249,368‡	+ 151,664

* After transfers of £243,000 from Reserves.

† After transfers of £103,000 from Reserves.

‡ After transfer of £100,000 from Reserves.

STATISTICS.

POWER PRODUCTION.

APPENDIX No. 6.

GENERATION OF ELECTRICITY.

State of Victoria.

All Supply Authorities.

Authority.	State Electricity Commission	Melbourne City Council.	Victorian State Railways.			Melbourne Electric Supply Co. Ltd.		Electric Supply Co. of Victoria Ltd.		Local Authorities.	Total kWh. Generated State of Victoria (millions).
Stations.	See Appendix No. 7.	Spencer-street, Melbourne.	Newport "A."			Richmond.	Geelong.	Ballarat.	Bendigo.	Country Centres not Served by State Generating System. kWh. (millions).	
Year.	kWh. (millions).	kWh. (millions).	kWh. (millions).			kWh. (millions).	kWh. (millions).	kWh. (millions).	kWh. (millions).		
			(1).	(2).	Total.						
1924–25 ..	**101·8**	**20·0**	**108·0**	**152·7**	**260·7**	**25·3**	**18·0**	**4·0**	**3·5**	**14·0**	**447·3**
1925–26 ..	188·7	17·7	74·8	163·7	238·5	34·9	21·1	4·1	3·5	14·0	522·5
1926–27 ..	284·2	14·6	27·0	169·1	196·1	38·1	30·3	4·4	3·6	15·0	586·3
1927–28 ..	**378·8**	**13·5**	**12·9**	**166·2**	**179·1**	**4·2**	**30·3**	**5·0**	**4·2**	**16·0**	**631·1**
1928–29 ..	422·3	16·0	12·0	162·5	174·5	..	32·2	5·3	4·5	16·0	670·8
1929–30 ..	461·2	17·1	11·3	164·7	176·0	..	27·3	5·1	4·5	15·0	706·2
1930–31 ..	**458·3**	**12·1**	**15·5**	**154·1**	**169·6**	..	**4·7**	**4·9**	**4·8**	**15·0**	**669·4**
1931–32 ..	504·9	12·3	9·7	146·8	156·5	..	..	4·9	5·0	16·0	699·6
1932–33 ..	549·7	10·0	10·4	150·2	160·6	..	..	5·2	5·1	17·0	747·6
1933–34 ..	**590·0**	**14·7**	**10·5**	**151·9**	**162·4**	..	..	**5·8**	**5·3**	**18·0**	**796·2**
1934–35 ..	620·1	23·9	35·2	156·2	191·4	Stations acquired by State Electricity Commission.				20·0	855·4
1935–36 ..	716·1	35·6	12·2	159·1	171·3	..	..	..	..	22·0	945·0
1936–37 ..	**769·7**	**33·9**	**14·1**	**162·9**	**177·0**	..	..	..	..	**23·0**	**1,003·6**
1937–38 ..	836·1	34·7	14·5	165·2	179·7	..	..	..	..	26·0	1,076·5
1938–39 ..	897·8	29·5	13·8	168·9	182·7	..	..	..	..	28·0	1,138·0
1939–40 ..	**1,024·2**	**33·3**	**14·5**	**153·7**	**168·2**	..	..	..	..	**26·0**	**1,251·7**
1940–41 ..	1,155·1	16·9	17·2	167·4	184·6	..	..	..	..	21·0	1,377·6
1941–42 ..	1,330·5	Station now operated as part of State system.	17·9	163·4	181·3	..	..	..	..	21·0	1,532·8
1942–43 ..	**1,455·4**		**14·6**	**151·5**	**166·1**	..	..	..	..	**22·0**	**1,643·5**
1943–44 ..	1,475·6		15·2	153·8	169·0	..	..	..	..	24·0	1,668·6
1944–45 ..	1,502·3	..	14·7	168·7	183·4	..	..	..	..	24·0	1,709·7
1945–46 ..	**1,594·9**	..	**13·0**	**162·8**	**175·8**	..	..	..	..	**27·0**	**1,797·7**
1946–47 ..	1,691·0	..	15·5	164·4	179·9	..	..	..	..	29·0	1,899·9
1947–48 ..	1,904·4	..	18·3	200·0	218·3	..	..	..	..	34·0	2,156·7
1948–49 ..	**2,148·0**	..	**23·0**	**195·6**	**218·6**	..	..	..	..	**36·0**	**2,402·6**
1949–50 ..	2,362·8	..	27·4	189·1	216·5	..	..	..	..	44·0	2,623·3

(1) 25 cycle supplied to other authorities. (2) 25 cycle Railway purposes.

GENERATION OF ELECTRICITY.

State Electricity Commission of Victoria.

Station.	Yallourn.*		Newport.		Richmond.		Geelong.		Ballarat and Bendigo.		Spencer Street.		Sugarloaf-Rubicon.		Kiewa.		All Stations.	
Year.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW.	kWh. (millions).	M.D. kW. Coincident.
	Operation commenced 15.6.24		Operation commenced 12.10.23		Station acquired and reconditioned. Restarted 6.5.29		Station acquired 1.9.30		Stations acquired 1.7.34 Bendigo closed down 31.12.37		Station operated as part of State system from 1.1.41		Operation commenced 14.3.28		Operation commenced 1.9.44			
1924–25	**48·4**	**29,000**	**53·4**	**15,800**	..	..	..	..	..	..	..	..	..	..	..	..	**101·8**	**40,500**
1925–26	142·7	37,500	46·0	16,800	..	..	..	..	..	..	..	..	..	..	..	..	188·7	50,000
1926–27	238·8	61,000	45·4	19,800	..	..	..	..	..	..	..	..	..	..	..	..	284·2	76,000
1927–28	**319·7**	**68,500**	**54·3**	**20,800**	..	..	..	..	..	..	..	..	**4·8**	**11,500**	..	..	**378·8**	**87,500**
1928–29	304·5	64,000	49·0	20,000	3·5	15,000	..	..	..	..	..	..	65·3	16,310	..	..	422·3	95,500
1929–30	310·6	62,500	50·8	21,000	21·9	16,200	..	..	..	..	..	..	77·9	19,300	..	..	461·2	103,160
1930–31	**251·9**	**63,000**	**38·4**	**19,800**	**26·6**	**15,520**	**20·5**	**5,570**	..	..	..	..	**120·9**	**23,100**	..	..	**458·3**	**109,013**
1931–32	320·1	80,000	9·8	18,800	25·7	15,000	26·9	6,510	..	..	..	..	122·4	23,400	..	..	504·9	116,959
1932–33	386·2	88,500	2·8	14,400	22·5	15,360	27·1	6,560	..	..	..	..	111·1	23,400	..	..	549·7	123,404
1933–34	**429·3**	**95,000**	**7·6**	**18,500**	**22·6**	**15,120**	**29·5**	**6,690**	..	..	..	..	**101·0**	**22,800**	..	..	**590·0**	**127,621**
1934–35	310·8	94,000	54·0	18,200	56·5	15,500	30·8	6,980	12·7	3,711	..	..	155·3	25,300	..	..	620·1	141,993
1935–36	487·6	107,500	16·7	19,300	29·8	15,100	34·1	7,930	13·2	3,825	..	..	134·7	25,400	..	..	716·1	158,862
1936–37	**531·2**	**122,500**	**27·2**	**19,000**	**25·3**	**15,400**	**32·1**	**7,930**	**12·5**	**3,750**	..	..	**141·4**	**25,490**	..	..	**769·7**	**173,300**
1937–38	654·8	140,500	27·1	18,600	24·2	15,300	34·4	8,620	10·0	3,797	..	..	85·6	25,090	..	..	836·1	181,847
1938–39	696·6	136,500	23·9	19,600	26·7	15,200	38·0	9,230	9·4	2,716	..	..	103·2	24,300	..	..	897·8	198,000
1939–40	**776·1**	**168,000**	**39·3**	**35,000**	**16·2**	**15,400**	**31·5**	**7,710**	**11·6**	**2,988**	..	..	**149·5**	**25,400**	..	..	**1,024·2**	**218,600**
1940–41	939·5	171,500	44·6	45,300	21·2	15,360	21·7	10,050	14·3	3,820	16·0	26,000	97·8	20,800	..	..	1,155·1	261,820
1941–42	1,027·3	187,500	45·2	54,800	35·2	15,540	30·7	10,600	14·6	4,140	44·1	35,000	133·4	25,600	..	..	1,330·5	297,696
1942–43	**1,110·1**	**186,000**	**45·8**	**63,000**	**38·6**	**15,600**	**34·3**	**11,800**	**15·0**	**5,960**	**55·4**	**33,000**	**156·2**	**26,100**	..	..	**1,455·4**	**319,300**
1943–44	1,088·0	188,000	83·3	71,600	44·5	15,600	44·8	12,200	20·8	5,400	63·8	40,650	130·4	25,700	..	..	1,475·6	328,000
1944–45	1,133·2	187,000	92·1	89,500	40·2	15,530	38·8	11,200	18·9	5,000	59·3	35,070	101·1	25,500	18·7	24,000	†1,502·3	351,600
1945–46	**1,136·7**	**190,500**	**136·9**	**93,500**	**33·1**	**15,600**	**31·2**	**11,900**	**16·0**	**5,350**	**55·0**	**34,200**	**134·3**	**25,650**	**51·4**	**26,000**	**†1,594·9**	**377,100**
1946–47	1,180·6	185,000	181·6	88,000	23·5	15,520	26·9	11,800	18·0	5,150	51·1	29,820	144·7	25,850	61·5	26,700	†1,691·0	364,750
1947–48	1,223·9	195,500	299·0	134,000	29·6	15,400	33·1	11,750	18·8	5,650	66·3	34,500	161·8	25,850	68·3	26,400	†1,904·4	449,500
1948–49	**1,291·6**	**194,000**	**513·6**	**138,000**	**26·1**	**15,600**	**32·9**	**11,800**	**18·8**	**5,850**	**77·0**	**35,220**	**139·1**	**25,550**	**44·4**	**28,000**	**†2,148·0**	**436,930**
1949–50	1,287·6	188,000	717·8	175,000	26·6	15,600	28·6	11,950	15·6	6,000	105·4	41,910	129·2	26,050	46·8	28,500	†2,362·8	504,090

* Including electricity transferred from Briquette Factory.

† Includes generation at Hamilton (from 1.7.46) and Warburton (1.7.44 to 16.8.47).

STATE ELECTRICITY COMMISSION OF VICTORIA.

(a) LOAD FACTORS AT POWER STATIONS.

(Based on Appendix No. 7.)

Year Ended 30th June.	Yallourn (including electricity from Briquette Factory).	Newport.	Richmond.	Geelong.	Ballarat and Bendigo.	Spencer St., (Melbourne City Council.)	Sugarloaf-Rubicon.	Kiewa.	All Stations.*
	%	%	%	%	% (Bendigo station closed down 31/12/37)	%	%	%	%
1925	19·1	38·6	..	..		..	..	..	28·7
1930	56·7	27·6	15·4	..	..	..	46·1	..	51·0
1935	†37·7	33·9	41·6	50·4	39·1	..	70·1	..	49·9
1940	52·6	12·8	12·0	46·5	44·2	..	67·0	..	53·3
1945	69·2	11·7	29·6	39·5	43·2	19·3	45·3	10·7	48·8
1946	68·1	16·7	24·2	29·9	34·1	18·4	59·8	22·6	48·3
1947	72·8	23·6	17·3	26·0	39·9	19·6	63·9	26·3	52·9
1948	71·3	25·4	21·9	32·1	37·9	21·9	71·3	29·4	48·2
1949	76·0	42·5	19·1	31·8	36·7	25·0	62·2	18·1	56·1
1950	78·2	46·8	19·5	27·3	29·7	28·7	56·6	18·7	53·5

* Includes generation at Hamilton (from 1/7/46) and Warburton (1/7/44 to 16/8/47).
† Severe floods at Yallourn

(b) FUEL USED AT POWER STATIONS (TONS).

Station.	Type of Fuel.	1949–50.	1948–49.	1947–48.	1946–47.	1945–46.	1944–45.	1943–44.	1942–43.	1941–42.	1940–41.
Yallourn	Brown Coal	4,075,675	4,035,535	3,766,828	3,666,105	3,517,235	3,530,260	3,259,882	3,345,628	3,093,961	2,818,969
	Briquettes	10,416	6,421	6,155	6,944	2,784	2,307	954	..	..	..
Newport	Brown Coal	332,676	94,155	315	290	..	..	..	..	95	..
	Briquettes	273,034	279,956	232,439	153,882	103,981	23,049	630	121	..	..
	Black Coal	46,173	62,569	5,669	736	17,497	44,588	56,570	35,976	33,446	33,301
	Coke	..	..	..	..	440	4,028	4,779	900	..	..
	Oil	18,551	2,266	9	10	..	..	..	..	..	..
Richmond	Briquettes	30,564	29,783	32,313	27,248	36,169	42,212	45,770	39,443	35,901	23,040
Geelong	Briquettes	31,093	35,407	35,321	30,169	33,828	40,542	45,786	35,323	32,229	23,548
Ballarat	Briquettes	18,135	22,772	22,845	21,791	19,577	22,371	23,825	17,215	16,467	16,513
Spencer Street (Melbourne City Council)	Brown Coal	..	..	41	113	564	371	3,691	862	..	..
	Briquettes	71,610	49,475	41,411	34,069	12,770	11,537	..	..	..	..
	Black Coal	221	276	1,142	1,125	14,940	25,039	38,120	31,283	21,594	7,841
	Coke	42,014	41,403	34,542	23,817	35,138	26,886	25,425	26,470	22,060	8,010
	Oil	18	17	..	..	..	..	..	..	..	..
Hamilton‡	Oil	1,132	975	812	623	..	..	..	..	..	..
	Wood	1,352	1,311	1,289	1,033	..	..	..	..	..	..

‡ Acquired 1/7/46. Not connected to State System.

STATE GENERATING SYSTEM

(a) Total Installed Plant Capacity (Interconnected System)

	kW
Maximum continuous rating of plant installed at 30/6/50	500,465
Add—Available from Yallourn Briquette Factory	8,000
Total	508,465

Under emergency conditions, frequency changers are used for supply to and from the Victorian Railways' system (25 cycle). Maximum Capacity 22,000

The Commission operates a thermal station at Hamilton (not connected to the State system). Installed capacity 1,987

Note.—At Newport and Spencer Street Stations generators could not be used to full capacity because of limitations on boiler capacity. Arrangements are in hand to overcome these limitations.

(b) Generators Installed at Power Stations (Interconnected System):

Power Station.	Set No.	Make.	Maximum Continuous Rating.	Voltage.	R.P.M.	Steam Consumption lb./kWh at Full Load.	Year Installed.
			kW				
Yallourn	1	Metropolitan Vickers	12,500	11,000	3,000	11·76	1924
	2	,, ,,	12,500	11,000	3,000	11·76	1924
	3	,, ,,	12,500	11,000	3,000	11·76	1924
	4	,, ,,	12,500	11,000	3,000	11·76	1924
	5	,, ,,	12,500	11,000	3,000	11·76	1925
	6	,, ,,	12,500	11,000	3,000	11·76	1928
	7	,, ,,	25,000	11,000	3,000	11·61	1932
	8	,, ,,	25,000	11,000	3,000	11·61	1935
	9	,, ,,	25,000	11,000	3,000	11·61	1938
	10	,, ,,	25,000	11,000	3,000	11·61	1938
Newport	1	Parsons	15,000	6,600	3,000	11·00	1923
	2	,,	15,000	6,600	3,000	11·00	1923
	3	Brown Boveri	30,000	22,000	3,000	9·60	1939
	4	Parsons	30,000	22,000	3,000	9·30	1945
	5	,,	30,000	11,000	3,000	9·30	1946
	6	,,	30,000	11,000	3,000	9·35	1948
	7	,,	30,000	11,000	3,000	9·35	1950
	8	Brush Ljungstrom	18,000	6,600	3,000	10·90	1944
Richmond	1	Metropolitan Vickers	15,000	6,600	3,000	12·30	1929
Geelong	1	Brush Ljungstrom	1,500	6,600	3,000	13·00	1921
	2	Metropolitan Vickers	3,000	6,600	3,000	13·00	1922
	3	,, ,,	3,000	6,600	3,000	13·00	1923
	4	,, ,,	3,000	6,600	3,000	13·00	1925
Ballarat	1	Brush Ljungstrom	1,400	6,600	3,000	15·00	1925
	2	,, ,,	1,400	6,600	3,000	15·00	1925
	3	,, ,,	1,400	6,600	3,000	15·00	1937
	4	,, ,,	1,400	6,600	3,000	15·00	1940
	5*	Brush Electrical	300	500	2,400	25·00	1912
Spencer Street (Melbourne City Council)	1	English Electric	5,500	6,600	3,000	13·50	1927
	5	Bellis & Morcom	3,900	6,600	3,000	17·00	1913
	6	Parsons	5,500	6,600	3,000	12·50	1935
	7	A.S.E.A.	6,875	6,600	3,000	12·00	1939
	8	,,	6,875	6,600	3,000	12·00	1939
	9	Parsons	15,000	6,600	3,000	11·50	1949
Sugarloaf	1	Boving	6,750	6,600	250	..	1929
	2	,,	6,750	6,600	250	..	1929
Rubicon Falls	1	,,	275	6,600	500	..	1926
Lower Rubicon	1	,,	2,700	6,600	750	..	1928
Royston	1	,,	840	6,600	1,000	..	1928
Rubicon	1	,,	4,550	6,600	500	..	1928
	2	,,	4,550	6,600	500	..	1928
Kiewa	1	English Electric	13,000	11,000	428	..	1944
	2	,, ,,	13,000	11,000	428	..	1945
			500,465				

* D.C..—All others A.C., 3 phase, 50 cycle.

(c) Boilers Installed at Power Stations.

Power Station.	Boiler No.	Make.	Rated Evaporative Capacity of each Boiler lb./per hour.	Working Pressure of each Boiler lb. (gauge) per sq. in.	Total Steam Temperature including Superheat Deg. F.	Year Installed.
Yallourn	1	John Thompson	68,600	270	650	1924
	2		68,600	270	650	1924
	3		68,600	270	650	1924
	4		68,600	270	650	1925
	5		98,000	270	650	1925
	6		98,660	270	650	1928
	7		78,800	270	650	1927
	8		98,000	270	650	1925
	9		98,000	270	650	1925
	10		77,400	270	650	1925
	11		68,600	270	650	1924
	12		68,600	270	650	1924
	13		75,000	270	750	1931
	14		75,000	270	750	1931
	15		75,000	270	750	1937
	16		75,000	270	750	1937
	17		75,000	270	750	1938
	18		75,000	270	750	1938
	19		75,000	270	750	1937
	20		75,000	270	750	1937
	21		75,000	270	750	1932
	22		75,000	270	750	1932
Newport	1	Babcock & Wilcox	43,000	270	650	1923
	2		43,000	270	650	1923
	3		43,000	270	650	1923
	4		43,000	270	650	1923
	5		43,000	270	650	1923
	6	John Thompson	60,000	270	750	1939
	7		60,000	270	750	1939
	8		60,000	270	750	1939
	9		60,000	270	750	1939
	10		60,000	270	750	1939
	11		160,000	620	820	1945
	12		160,000	620	820	1945
	13		160,000	620	820	1947
	14		160,000	620	820	1948
	16		160,000	620	820	1950
	17		160,000	620	820	1950
	18		160,000	620	820	1949
Richmond	1	Babcock & Wilcox	20,000	160	570	1917
	2		20,000	160	570	1919
	15		20,000	160	570	1921
	16		20,000	160	570	1920
	17		20,000	160	570	1921
	18		20,000	160	570	1920
Geelong	1	John Thompson	27,000	200	588	1921
	2		27,000	200	588	1921
	3		27,000	200	588	1922
	4		27,000	200	588	1922
	5		27,000	200	588	1924
	6		27,000	200	588	1924
Ballarat	1	Stirling	11,000	160	600	1906
	2		11,000	160	600	1906
	3		11,000	160	600	1906
	4		11,000	160	600	1913
	5		11,000	160	600	1937
Spencer Street .. .. (Melbourne City Council)	1	Babcock & Wilcox	25,000	160	570	Reconstd. 1925
	2		25,000	160	570	1925
	3		25,000	160	570	1925
	4		25,000	160	570	1925
	6	John Thompson	55,000	160	570	1938
	8	Babcock & Wilcox	55,000	160	570	1934
	10	John Thompson	55,000	160	570	1937
	12		55,000	160	570	1939
	14		55,000	160	570	1940
	16		55,000	160	570	1936
	17	Babcock & Wilcox	21,000	160	570	1917
	18		21,000	160	570	1917
	19		21,000	160	570	1917
	20		21,000	160	570	1917
	22	John Thompson	60,000	165	620	1941
	24		60,000	165	620	1941

STATISTICS.

ELECTRICITY SUPPLY.

●

APPENDIX No. 10.

ELECTRICITY SUPPLY UNDERTAKINGS—STATE OF VICTORIA.

STATISTICAL SUMMARY—CONSUMERS AND SALES AT 30th JUNE, 1950.

—	Population.	Consumers.		Retail Sales.	
		Number.	Percentage of Grand Total.	kWh.	Percentage of Grand Total.
State Electricity Commission of Victoria—					
Metropolitan } excluding adjacent rural areas	847,838	225,685	40·85	810,375,111	44·79
Provincial Cities } excluding adjacent rural areas	140,050	38,261	6·92	111,094,931	6·14
Country	425,805	127,059	23·00	345,149,145	19·08
Total	1,413,693	391,005	70·77	1,266,619,187	70·01
Other Undertakings—					
Metropolitan (receiving Bulk Supply from State Electricity Commission of Victoria)	453,183	132,522	23·99	505,679,460	27·95
Country (Local Undertakings)	110,377	28,942	5·24	36,820,193	2·04
Total	563,560	161,464	29·23	542,499,653	29·99
Grand Total	1,977,253	552,469	100·00	1,809,118,840	100·00

APPENDIX No. 11.

STATE ELECTRICITY COMMISSION OF VICTORIA.

CONSUMER STATISTICS.

(a) AGGREGATES FOR ALL BRANCHES, 1931–1950.

Year Ended 30th June.	Population of Area of Supply.	Number of Consumers.	Percentage of Consumers to Population.	kWh. Sold per Consumer (Average).			Motors Connected.		Number of Farms Supplied.
				Domestic.	Industrial.	Commercial.	Number.	H.P.	
1931	823,000	179,091	21·8	321	43,850	1,141	17,082	144,744	1,300
1932	824,000	181,042	22·0	402	57,440	1,063	18,662	163,949	1,410
1933	831,000	186,175	22·4	423	60,980	1,100	19,760	169,646	1,600
1934	880,000	192,969	21·9	446	62,540	1,190	21,007	173,699	1,740
1935	**972,000**	**213,669**	**22·0**	**466**	**62,040**	**1,257**	**24,260**	**191,550**	**2,025**
1936	972,000	225,534	23·2	487	62,320	1,377	26,608	204,503	2,540
1937	984,000	235,942	24·0	520	61,890	1,509	29,063	213,667	3,200
1938	1,018,000	249,244	24·5	540	57,820	1,611	32,386	227,903	4,030
1939	1,050,000	260,733	24·8	566	53,540	1,734	36,282	245,697	4,985
1940	**1,080,000**	**271,749**	**25·2**	**626**	**53,730**	**1,917**	**41,530**	**275,458**	**5,785**
1941	1,104,000	284,373	25·8	658	56,920	2,081	46,114	299,988	6,410
1942	1,123,000	292,341	26·0	703	62,300	2,245	50,465	322,283	6,785
1943	1,141,000	296,717	26·0	756	65,920	2,626	54,285	345,924	7,032
1944	1,149,000	300,465	26·1	793	60,170	2,769	59,483	365,746	7,467
1945	**1,193,000**	**311,172**	**26·1**	**838**	**50,470**	**2,934**	**65,983**	**401,085**	**8,772**
1946	1,200,000	321,631	26·8	928	41,860	3,104	71,796	430,452	10,209
1947	1,253,000	339,286	27·1	1,015	38,330	2,769	77,735	454,901	11,680
1948	1,300,000	355,258	27·3	1,151	37,498	3,132	84,361	481,408	13,181
1949	1,353,000	372,135	27·5	1,370	37,428	3,400	90,896	505,877	14,419
1950	**1,414,000**	**391,005**	**27·7**	**1,556**	**35,550**	**3,555**	**96,150**	**528,618**	**15,741**

(b) ELECTRICITY SUPPLY BRANCHES—1949 AND 1950.

Branch.		Population of Area of Supply.	Number of Consumers.	Percentage of Consumers to Population.	kWh. Sold per Consumer (Average).			Motors Connected.		Number of Farms Supplied
					Domestic.	Industrial.	Commercial.	Number.	H.P.	
Metropolitan	1950	850,011	224,774	26·44	1,626	82,277	3,894	55,783	297,243	1,223
	1949	824,491	218,394	26·49	1,432	84,623	3,815	53,101	290,046	1,236
Ballarat	1950	56,680	16,043	28·30	937	25,640	2,738	4,102	21,548	609
	1949	55,825	15,243	27·30	824	36,824	2,642	3,956	19,669	494
Bendigo	1950	42,370	11,739	27·71	1,052	27,903	2,119	2,556	17,463	392
	1949	38,587	11,276	29·22	872	28,824	2,044	2,425	16,438	355
Geelong	1950	69,845	18,587	26·61	1,087	75,141	2,841	5,860	38,648	557
	1949	69,040	17,670	25·59	923	66,090	2,762	5,637	37,879	510
Eastern Metropolitan	1950	109,563	38,383	35·03	1,926	8,757	3,902	4,053	27,905	2,872
	1949	93,798	34,171	36·43	1,769	8,479	3,754	3,647	22,942	2,618
Gippsland (Inc. Yallourn)	1950	98,747	26,763	27·10	1,648	11,338	2,946	8,011	44,123	4,013
	1949	91,846	24,400	26·56	1,402	11,889	2,676	7,611	41,987	3,679
Midland	1950	41,772	10,648	25·49	1,072	16,413	2,623	2,352	13,718	759
	1949	40,166	9,976	24·84	951	14,786	2,498	2,149	13,019	720
North Eastern	1950	81,111	25,380	31·29	1,421	18,166	4,837	9,110	52,701	2,815
	1949	78,544	23,526	29·95	1,240	20,432	4,156	8,449	49,820	2,539
South Western	1950	63,594	18,688	29·39	1,526	8,210	2,054	4,323	15,269	2,501
	1949	61,154	17,479	28·58	1,342	8,669	2,031	3,921	14,077	2,268
Total	1950	1,413,693	391,005	27·7	1,556	35,550	3,555	96,150	528,618	15,741
	1949	1,353,451	372,135	27·5	1,370	37,428	3,400	90,896	505,877	14,419

APPENDIX No. 12.

STATE ELECTRICITY COMMISSION OF VICTORIA.

ELECTRICITY SALES AND REVENUE.

(a) AGGREGATES FOR ALL BRANCHES, 1931—1950.

Year Ended 30th June.	Sales—kWh. (Millions).						Revenue.			
	Bulk Supplies.	Public Lighting.	Domestic.	Industrial including Traction.	Commercial.	Total.	Total.	Per kWh. Sold. Domestic.	Industrial.	Commercial.
							£	d.	d.	d.
1931	179·268	9·098	47·777	112·692	30·755	379·590	2,246,439	3·625	1·061	3·101
1932	152·112	11·026	60·047	151·935	28·876	403·996	2,453,586	3·419	0·978	3·645
1933	165·023	10·920	64·547	168·049	30·491	439·030	2,569,972	3·288	0·957	3·537
1934	178·449	11·049	70·409	180·811	33·734	474·452	2,709,064	3·161	0·952	3·376
1935	**181·900**	**11·681**	**81·367**	**203·114**	**39·437**	**517·499**	**2,995,962**	**3·008**	**0·934**	**3·353**
1936	211·004	11·975	89·630	219·996	44·231	576·836	3,164,629	2·789	0·919	3·134
1937	220·031	12·408	100·994	240·551	49·372	623·356	3,331,561	2·635	0·897	2·915
1938	241·988	12·950	110·597	258·274	54·080	677·889	3,528,396	2·559	0·884	2·714
1939	257·394	14·282	122·134	273·372	59·915	727·097	3,685,538	2·420	0·877	2·567
1940	**285·031**	**16·804**	**141·172**	**311·916**	**67·224**	**822·147**	**3,881,022**	**2·165**	**0·848**	**2·338**
1941	311·546	16·516	155·726	367·438	73·547	924·773	4,241,264	2·059	0·819	2·262
1942	369·236	10·509	173·951	441·734	78·168	1,073·598	4,657,452	1·973	0·800	2·112
1943	404·121	11·694	192·067	483·305	87·821	1,179·008	4,935,602	1·869	0·785	1·908
1944	422·287	15·984	203·979	466·137	92·938	1,201·325	5,101,631	1·822	0·812	1·835
1945	**417·193**	**16·782**	**220·247**	**452·664**	**100·790**	**1,207·676**	**5,259,890**	**1·783**	**0·830**	**1·781**
1946	447·005	17·255	250·245	449·623	110·413	1,274·541	5,605,333	1·700	0·857	1·814
1947	449·380	17·614	285·596	486·994	104·539	1,344·123	5,835,194	1·606	0·846	1·900
1948	506·780	18·106	339·025	535·138	122·448	1,521·497	6,543,089	1·506	0·852	1·905
1949	563·296	18·607	422·681	584·252	136·179	1,725·015	8,129,973	1·517	0·955	2·070
1950	**613·552**	**14·253**	**504·311**	**601·605**	**146·450**	**1,880·171**	**9,446,008**	**1·554**	**1·041**	**2·148**

Note.—Above figures do not include allowances for unread meters prior to 1941.

(b) ELECTRICITY SUPPLY BRANCHES—1949 AND 1950.

Year Ended 30th June.		Sales—kWh. (Millions).						Revenue.			
		Bulk Supplies.	Public Lighting.	Domestic.	Industrial including Traction.	Commercial.	Total.	Total.	Per kWh. Sold. Domestic.	Industrial.	Commercial.
								£	d.	d.	d.
Metropolitan (Incl. Metropolitan Bulk Supplies)	1950	588·369	10·895	320·248	406·203	77·564	1,403·279	6,329,924	1·393	1·007	2·087
	1949	540·151	14·118	273·888	400·011	74·726	1,302·894	5,509,009	1·357	0·918	2·015
Ballarat	1950	..	0·340	12·094	15·589	5·908	33·931	248,055	2·156	1·123	2·442
	1949	..	0·459	10·113	19·664	5·569	35·805	231,384	2·193	0·939	2·373
Bendigo	1950	..	0·423	10·029	12·082	3·288	25·822	186,129	2·074	1·105	2·823
	1949	..	0·553	7·932	11·155	3·088	22·728	177,433	2·132	1·422	2·745
Geelong	1950	..	0·398	16·577	43·056	6·619	66·650	393,816	2·091	0·936	2·695
	1949	..	0·532	13·406	34·697	6·303	54·938	324,394	2·147	0·891	2·590
Eastern Metropolitan	1950	..	0·675	59·483	16·498	14·200	90·856	639,834	1·631	1·435	2·130
	1949	..	0·877	48·665	14·610	12·929	77·081	514,118	1·548	1·348	1·981
Gippsland (Incl. Yallourn)	1950	..	0·496	30·785	40·671	9·921	81·873	507,401	1·734	1·124	2·071
	1949	..	0·625	23·831	39·233	8·592	72·281	414,028	1·724	0·995	1·985
Midland	1950	..	0·224	8·656	10·176	4·226	23·282	175,932	2·152	1·246	2·335
	1949	..	0·322	7·202	8·324	3·912	19·760	147,693	2·145	1·219	2·220
North Eastern (Incl. N.S.W. Bulk Supplies)	1950	25·183	0·500	25·943	40·474	19·333	111·433	646,329	1·908	1·057	1·827
	1949	23·145	0·715	20·788	40·252	15·971	100·871	540,015	1·895	0·934	1·768
South Western	1950	..	0·302	20·496	16·856	5·391	43·045	315,329	1·836	1·269	2·830
	1949	..	0·406	16·856	16·306	5·089	38·657	269,076	1·811	1·155	2·689
Miscellaneous	1950	..	..	..	..	..	..	3,259	..	..	..
	1949	..	..	..	..	..	..	2,823	..	..	..
Total ..	1950	613·552	14·253	504·311	601·605	146·450	1,880·171	9,446,008	1·554	1·041	2·148
	1949	563·296	18·607	422·681	584·252	136·179	1,725·015	8,129,973	1·517	0·955	2·070

STATE ELECTRICITY COMMISSION OF VICTORIA.

STANDARD TARIFFS AS AT 1st JULY, 1950.

	Tariffs.	Residential and Commercial. Metropolitan.	Residential and Commercial. Provincial City and Town. (Ballarat, Bendigo, Geelong, and Large Towns.)	Residential and Commercial. Country. (Smaller Towns and Rural Areas.)	Farming. Farming Operations Only. All Extra Metropolitan Areas.	Industrial. Factories and Other Industrial Establishments. All Supply Areas.	Miscellaneous.
		1	2	3	4	5	6
	Residential Tariff (Domestic and Commercial Residential Premises)—						Tariffs for the following centres are the same as shown in Columns 2, 4, and 5, except the Residential Tariff within certain areas:— Croydon, Heathmont, Kilsyth, Montrose, Ringwood. Details of Residential tariffs for the areas concerned will be supplied on request.
	Service charge a month for each assessable room ..	1s. 1d.	1s. 4d.	1s. 5d.			
	Rate a kWh	1·25d.	1·65d.	1·8d.			
	Maximum overall rate a kWh.	6·0d.	6·0d.	6·0d.			
TARIFFS FOR NON-RESIDENTIAL PREMISES.	**Lighting**— Block Tariff—rates a kWh. (based on monthly consumption)	First 20 at 4·75d. Balance at 3·75d.	First 100 at 6·0d. Balance at 4·25d.	First 100 at 6·75d. Next 200 at 5·25d. Balance at 4·25d.		First 20 at 4·75d. Balance at 3·75d.	
	Power and Heating— Block Tariff—rates a kWh. (based on monthly consumption)	First 200 at 2·5d. Next 4,800 at 1·5d. ,, 20,000 at 1·175d. Balance at 1·075d. 11 p.m.–7 a.m.—0·525d.	First 200 at 2·8d. Next 4,800 at 1·9d. ,, 20,000 at 1·3d. Balance at 1·2d. 10.30 p.m.–6.30 a.m.*—0·6d.	First 50 at 3·1d. Next 150 at 2·8d. ,, 4,800 at 1·9d. ,, 20 000 at 1·3d. Balance at 1·2d. 10 p.m.–6 a.m.—0·6d.		First 200 at 2·5d. Next 4,800 at 1·5d. ,, 20,000 at 1·175d. Balance at 1·075d. 11 p.m.–7 a.m.*—0·525d.	
	Rental a month for each two-rate meter	5s.	5s.	5s.		5s.	
	Power, Heating, and Lighting— Block Tariff—rates a kWh. (based on monthly consumption)	**Commercial General Service.** First 20 at 4·75d. Next 980 at 3·75d. ,, 1,000 at 2·5d. ,, 3,000 at 2·2d. ,, 20,000 at 1·175d. Balance at 1·075d. 11 p.m.–7 a.m.—0·525d. (Power and Heating only.)	**Commercial General Service.** First 100 at 6·0d. Next 900 at 4·25d. ,, 4,000 at 2·8d. ,, 20,000 at 1·3d. Balance at 1·2d. 10.30 p.m.–6.30 a.m.*—0·6d. (Power and Heating only.)	**Commercial General Service.** First 100 at 6·75d. Next 200 at 5·25d. ,, 700 at 4·25d. ,, 4,000 at 2·8d. ,, 20,000 at 1·3d. Balance at 1·2d. 10 p.m.–6 a.m.—0·6d. (Power and Heating only.)	**Farming General Service.** First 4 at 6·5d Next 196 at 2·8d. ,, 4,800 at 1·9d. Balance at 1·3d. 10 p.m.–6 a.m.*—0·6d.	**Industrial All-Purposes.** First 20 at 4·75d. Next 480 at 3·75d. ,, 4,500 at 2·3d. ,, 20,000 at 1·175d. ,, 100,000 at 1·075d. Balance at 0·975d. 11 p.m.–7 a.m.—0·525d. (See Note 2 below.)	
	Rental a month for each two-rate meter	5s.	5s.	5s.	5s	5s.	
	Industrial Maximum Demand (See Note 3 below) **Power, Heating, and Lighting.**					18s. 9d. a month for each kW. of maximum demand plus 0·43d. a kWh (500 kW Minimum demand charge). Reset monthly.	
	Commercial Range (**Electric Cooking**)—Rate a kWh ..	1·25d.	1·65d.	1·8d.			
	Water Heating—Night Tariff Rate a kWh.	0·6d.	0·7d.	0·7d.	0·7d.	0·6d.	
	Minimum Charge—a month	2s. 6d.	3s.	3s. 6d.	3s.	2s. 6d.	

* Prescribed hours for these tariffs are 10.30 p.m.–6.30 a.m. in Ballarat, Bendigo, and Geelong. In other extra-metropolitan areas the hours are 10 p.m.–6 a.m.

Notes—1. Details regarding the application of the above tariffs are shown in the Commission's published tariff schedules, which are available on request. 2. A consumer adopting the Industrial All-Purposes Tariff must agree to pay a special minimum charge of £12 13s. 9d. per month. 3. The Industrial Maximum Demand Tariff is available only to consumers entering into a five-year agreement providing for high tension supply and for monthly payments based on the minimum demand indicated or half the stipulated rate of supply, whichever is the greater.

STATE ELECTRICITY COMMISSION OF VICTORIA.
TRANSMISSION AND DISTRIBUTION SYSTEMS.

Description.		Increase during Year ended 30th June, 1950.		Total at 30th June, 1950.	
		Route Miles.	Cable Miles.	Route Miles.	Cable Miles.
OVERHEAD LINES.					
Yallourn to Yarraville	132 kV.	..	..	110·0	660·0
Yallourn to Richmond	132 kV.	..	..	80·5	483·0
Yallourn to Warragul	66 kV.	..	..	24·8	74·4
Newport to Geelong	66 kV.	..	..	79·3	252·3
Sugarloaf to Thomastown	66 kV.	..	..	62·0	372·0
Thomastown to Bendigo	66 kV.	..	..	93·4	560·7
Newport to Ballarat	66 kV.	..	..	78·0	234·0
Maindample to Wangaratta	66 kV.	58·0	174·0	58·0	174·0
Kiewa No. 3 P.S. to Sugarloaf	66 kV.	..	..	137·0	411·0
Kiewa No. 3 P.S. to Howman's Gap	66 kV.	..	..	4·0	12·0
Kiewa No. 3 P.S. to Mt. Beauty	22 kV.	..	..	4·8	14·4
Kiewa-Rocky Valley to Pretty Valley	22 kV.	..	..	3·0	9·0
Main Metropolitan Transmission Lines	66 kV.	0·5	1·5	22·5	23·5
,, ,, ,, ,,	22 kV.	2·4	8·4	203·2	688·9
,, ,, ,, ,,	6·6 kV.	0·3	1·8	0·3	1·8
Branches—					
Metropolitan	22 kV.	1·5	4·7	95·2	282·6
	7·2, 6·6, 4·0 kV.	10·9	33·2	339·3	994·8
	Low tension	44·6	187·1	1,958·5	7,459·6
Ballarat	22 kV.	27·3	57·1	233·8	629·9
	6·6 kV.	1·2	3·3	50·3	134·1
	Low tension	28·8	88·3	320·2	1,082·1
Bendigo	22 kV.	15·6	39·8	252·3	649·6
	Low tension	9·3	26·3	210·5	750·2
Geelong	22 kV.	2·2	5·7	148·0	380·4
	6·6 kV.	2·7	8·7	66·0	234·6
	Low tension	15·9	47·5	236·0	841·2
Eastern Metropolitan	22 kV.	56·0	153·0	659·1	1,714·7
	6·6 kV.	1·3	3·5	68·9	174·5
	Low tension	71·0	295·0	941·8	3,207·0
Gippsland	66 kV.	32·4	97·3	98·2	294·6
	22 kV.	34·9	93·6	1,179·2	2,892·6
	6·6 kV.	..	..	0·8	1·6
	Low tension	63·1	224·9	988·9	3,268·8
Midland	22 kV.	20·3	53·8	440·1	1,219·7
	6·6 kV.	..	..	1·6	4·7
	Low tension	30·8	87·4	319·6	1,043·3
North-Eastern	66 kV.	12·1	148·4	173·9	633·8
	22 kV.	71·2	184·0	1,210·9	3,200·8
	Low tension	51·9	193·9	664·9	2,299·0
South-Western	66 kV.	..	..	90·9	412·1
	44 kV.	..	..	44·6	148·9
	22 kV.	73·1	159·4	1,218·4	2,648·6
	6·6 kV.	..	..	63·6	176·5
	Low tension	33·0	83·1	509·1	1,336·5
Yallourn	6·6 kV.	1·2	3·6	10·7	32·0
	Low tension	3·0	8·3	19·0	61·7
Summary	132 kV.	..	..	190·5	1,143·0
	66 kV.	103·0	421·2	922·0	3,454·4
	44 kV.	..	..	44·6	148·9
	22 kV.	304·5	759·5	5,648·0	14,331·2
	7·2, 6·6, 4·0 kV.	17·6	54·1	601·5	1,754·6
	Low tension	351·4	1,241·8	6,168·5	21,349·4
		776·5	2,476·6	13,575·1	42,181·5

UNDERGROUND CABLES.	Cable Miles.	Cable Miles.
22 kV.	0·46	154·29
11, 7·2, 6·6, 4·0, 3·3 and 2·2 kV.	6·21	340·67
Pilot, telephone, and supervisory	5·70	183·17
Low tension	2·07	61·24
	14·44	739·37

SUB-STATIONS.	Number.	Capacity kVA.	Number.	Capacity kVA.
Terminal Stations	1	15,000	8	436,250
Switching Stations	..	..	2	18,000
Main Metropolitan Transmission Sub-stations	2	23,000	38	518,750
Distribution Sub-stations at Line Voltage	..	..	4	16,500
Branches—				
Metropolitan	35	16,525	966	273,795
Ballarat	23	1,295	233	14,450
Bendigo	8	2,160	193	35,840
Geelong	12	2,370	231	33,355
Eastern Metropolitan	82	12,660	818	52,305
Gippsland	51	8,835	1,009	42,895
Midland	40	1,220	339	22,105
North-Eastern	72	8,845	1,043	82,479
South-Western	40	1,666	1,239	53,205
Yallourn	3	305	20	3,090
	369	93,881	6,143	1,603,019

STATE ELECTRICITY COMMISSION OF VICTORIA.

COUNTRY UNDERTAKINGS ACQUIRED (77)—INCREASED DEVELOPMENT SINCE ACQUISITION.

Location.	Acquisition Date.	After Acquisition, Year 1949–50.		Prior to Acquisition.			Average Revenue per kWh Sold.	
		kWh Sold.	Revenue.	kWh Sold.	Revenue.	For Year Ended	1949–50.	Prior to Acquisition
			£		£		d.	d.
Metropolitan Branch.								
Werribee	10.4.24	6,114,277	44,042	61,190	2,575	30.9.23	1·73	10·10
Ballarat Branch.								
Ballan	1.3.40	185,838	2,066	13,261	964	30.6.39	2·67	17·45
Daylesford	31.10.40	1,939,403	14,198	184,853	5,091	30.10.40	1·76	6·61
Hepburn Springs	1.10.40	409,307	3,833	46,002	1,701	30.6.40	2.25	8·87
Wallace	17.5.40	89,428	633	1,320	90	30.6.39	1·70	16·36
Bendigo Branch.								
Eaglehawk	1.2.36	2,956,198	18,425	198,580	4,472	30.9.35	1·50	5·40
Elmore	2.9.47	501,368	3,879	60,000	2,188	30.6.46	1·86	8·75
Inglewood	3.12.46	213,242	2,727	89,400	2,614	30.9.46	3·07	7·02
Eastern Metropolitan Branch.								
Dandenong	1.10.23	6,294,607	43,111	77,300	4,006	30.9.23	1·64	12·44
Frankston	21.2.28	9,014,668	61,746	293,000	8,859	30.9.27	1·64	7.25
Healesville	1.4.33	1,939,938	16,409	108,910	4,196	30.9.31	2·03	9·24
Lilydale	1.4.25	2,491,442	15,380	39,950	1,816	30.9.24	1·48	10·91
Mornington	1.8.30	3,612,074	26,148	120,000	4,634	30.9.28	1·74	9·26
Ringwood and Croydon	1.4.25	9,882,987	62,504	181,600	4,393	30.9.24	1·52	5·81
Sorrento and Portsea	1.10.27	2,166,746	15,738	47,500*	2,440	30.9.27	1·74	12·33*
Warburton	1.7.44	1,430,123	13,598	112,555	3,485	30.6.44	2·28	7·43
Gippsland Branch.								
Bairnsdale	1.4.27	3,208,573	25,362	100,272	2,948	30.6.23	1·90	7·06
Drouin	3.10.24	1,870,703	11,741	19,500	743	30.9.21	1·51	9·15
Garfield	1.8.29	176,638	1,419	8,864	465	30.12.27	1·93	12·59
Heyfield	15.9.24	547,472	3,977	20,000*	950*	30.6.24	1·74	11·40*
Inverloch	1.10.34	209,857	2,117	4,000*	200	30.6.34	2·42	12·00*
Koo-wee-rup	1.8.35	680,731	4,260	17,481	686	9.8.33	1·50	9·42
Korumburra	1.12.24	2,595,488	15,086	85,000	3,427	30.9.23	1·39	9·68
Leongatha	15.2.24	2,117,462	13,382	50,640	2,012	30.6.23	1·52	9·53
Maffra	1.9.24	4,610,124	22,865	62,000	2,651	30.9.22	1·19	10·26
Morwell	1.4.26	15,371,722	58,457	52,062	1,772	30.9.25	0·91	8·17
Neerim South—Noojee	15.1.35	1,124,789	7,704	59,550	1,193	30.6.33	1·64	4·81
Sale	1.7.24	4,619,606	34,503	114,155	3,687	30.6.24	1·79	7·75
Toora—Foster	1.5.38	1,137,366	6,988	116,330	2,348	30.6.36	1·47	4·84
Thorpdale	23.12.37	183,213	1,313	5,000*	312*	23.12.37	1·72	14·98*
Warragul	1.12.30	4,059,839	29,251	150,000*	4,830	30.11.30	1·73	7·73*
Welshpool	13.8.38	120,356	1,085	5,280	172*	13.8.38	2·16	7·82*
Yarram	31.7.46	1,070,518	8,258	264,000*	6,422	31.1.46	1·85	5·84*
Midland Branch.								
Avoca	1.8.40	394,121	3,506	46,410	1,922	30.6.40	2·13	9·94
Bacchus Marsh	2.6.41	2,128,355	14,474	253,913	4,225	30.9.40	1·63	3·99
Castlemaine	31.12.29	3,843,962	26,309	175,904	7,130	31.12.28	1·64	9·73
Dunolly	1.4.38	457,583	3,612	32,667	1,188	30.9.37	1·89	8·73
Gisborne	1.10.28	392,709	3,229	17,000	1,074	30.9.27	1·97	15·16
Kyneton	1.10.29	1,530,678	12,214	143,340	5,433	30·9·27	1·92	9·09
Maryborough	1.10.37	4,008,755	29,149	421,013	10,215	30.9.37	1·75	5·82
Sunbury	1.5.26	672,405	5,679	58,501	2,490	30.9.24	2·03	10·21
Trentham	8.5.39	198,982	1,973	21,000*	989	30.9.38	2·38	11·30*
Woodend	1.8.29	785,792	6,487	51,000	2,555	30.9.27	1·98	12·02
North-Eastern Branch.								
Alexandra	11.4.27	1,095,253	8,208	64,000*	1,875	30.9.26	1·80	7·00*
Beechworth	2.9.46	1,336,214	11,624	182,661	6,982	30.9.46	2·09	9·17
Benalla	1.5.26	3,305,807	26,349	70,800	3,373	30.9.24	1·91	11·43
Bright	1.12.41	612,750	4,621	49,200	1,801	31.10.41	1·81	8·79
Broadford	31.8.48	346,338	3,873	75,089	2,678	31.8.48	2·68	8·56
Chiltern	1.9.26	253,490	2,719	13,475	730	31.8.26	2·57	13·00
Cobram	1.10.28	1,480,558	10,000	19,500	1,416	30.9.27	1·62	17·43
Euroa	20.3.28	1,003,199	8,568	46,618	1,782	30.9.25	2·05	9·17
Kyabram	1.12.26	2,768,956	18,874	92,312	3,462	4.7.25	1·64	9.00
Mansfield	1.6.28	842,692	7,654	25,000	1,341	30.9.27	2·18	12·88
Mooroopna	1.10.26	1,913,378	11,425	40,000	1,457	30.9.25	1·43	8·74
Murchison	30.11.45	322,872	3,146	114,080	2,547	30.9.45	2·34	5·36
Myrtleford	1.12.40	906,261	6,938	59,260	2,089	30.6.40	1·84	8·46
Nathalia and Numurkah	1.10.31	1,666,242	13,286	96,763	3,619	30.9.31	1·91	8·97
Rochester	1.8.35	1,232,129	9,246	191,310	4,223	31.7.35	1·80	5·30
Rutherglen	15.10.26	2,967,454	16,009	28,392	1,377	30.9.24	1·29	11·64
Seymour	2.10.44	3,176,245	25,104	1,004,623	14,019	30.9.44	1.90	3.35
Shepparton	1.1.25	6,938,620	48,833	163,400	4,625	30.6.24	1·69	6·79
Stanhope	14.6.38	1,221,642	7,793	5,150*	341	14.6.38	1.53	15·89*
Tallangatta	1.11.40	576,362	4,721	118,033	3,119	30 9 40	1.97	6·34
Tatura	1.11.26	1,238,736	9,182	40,000	1,710	30.6.25	1.78	10·26
Violet Town	1.3.36	154,395	1,678	14,650*	1,160	30 9.35	2·61	19.00*
Wahgunyah	1.2.26	157,634	1,482	7,233	263	30.9.22	2·26	8·73
Wangaratta	12.3.27	7,480,218	47,386	151,600	4,788	30.9.25	1·52	7·58
Wodonga	1.11.33	1,576,726	12,559	64,500*	3,000*	30.6.33	1·91	11·16*
Yarrawonga	1.8.25	7,521,599	30,744	47,000	2,149	30.9.24	0·98	10·97
Yea	1.5.45	591,293	5,259	163,550	3,134	30.9.44	2·13	4·60
South-Western Branch.								
Camperdown	1.1.24	2,004,372	14,870	97,664	4,122	30.9.23	1·78	10·13
Colac	1.9.23	4,640,611	35,285	99,000	2,673	30.9.22	1·82	6·48
Coleraine	1.7.46	385,540	4,131	100,216	2,435	31.12.44	2·57	5·83
Hamilton	1.7.46	3,778,044	33,109	1,440,664	19,422	31.12.44	2·10	3·24
Koroit	1.12.28	457,511	4,154	50,000	2,319	30.9.28	2·18	11·13
Lorne	15.12.36	1,140,138	8,960	24,000	1,658	30.9.36	1·89	16·58
Mortlake	16.5.24	475,003	4,071	35,306	1,626	30.9.22	2.06	11.05
Terang	4.3.24	1,387,756	10,862	78,839	3,439	30.9.23	1·88	10.47
Total	..	174,315,483	£1,171,560	8,864,191	£242,317	..	1·61	6·56

* Approximate only.

COMPARISON OF TOTAL FIGURES.

	kWh. Sold.	Revenue. £	Average Revenue per kWh. d.
After acquisition	174,315,483	1,171,560	1·61
Prior to acquisition	8,864,191	242,317	6·56
Increase in sales and revenue	1,866·5%	383·5%	Decrease 4·95 = 75·5%

ELECTRICITY SUPPLY.

CENTRES SERVED

IN VICTORIA.

CENTRES SERVED BY STATE ELECTRICITY COMMISSION OF VICTORIA.

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 13, Columns No.	Date Supply First Undertaken by Commission.
Metropolitan.							
Brighton	Metro.	Melbourne	A.C., 3 ph. and 1 ph.	836,148	221,511	1 and 5	1.9.30
Broadmeadows (Fawkner and Glenroy and portions of North Essendon and Pascoe Vale only)	,,	,,	A.C., 3 ph.				1.8.22
Camberwell	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Caulfield	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Collingwood	,,	,,	A.C., 3 ph.				1.9.30
Essendon	,,	,,	A.C., 3 ph.				1.8.22
Fitzroy	,,	,,	A.C., 3 ph.				1.9.30
Hawthorn	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Kensington/Flemington	,,	,,	A.C., 3 ph.				1.8.22
Kew	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Malvern	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Moorabbin	,,	,,	A.C., 3 ph.				1.9.30
Mordialloc	,,	,,	A.C., 3 ph.				1.9.30
Mulgrave (part)	,,	,,	A.C., 3 ph.				1.9.30
Oakleigh	,,	,,	A.C., 3 ph.				1.9.30
Prahran	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Richmond	,,	,,	A.C., 3 ph.				1.9.30
St. Kilda	,,	,,	A.C., 3 ph. and 1 ph.				1.9.30
Sandringham	,,	,,	A.C., 3 ph.				1.9.30
South Melbourne	,,	,,	A.C., 3 ph.				1.9.30
Sunshine	,,	Sunshine	A.C., 3 ph.				1.3.27
City of Chelsea — Aspendale — Carrum — Chelsea — Edithvale — (Excluding Rural and Bonbeach)	E/M.	Chelsea	A.C., 3 ph.	11,464	4,100	1 and 5	31.12.44
East Oakleigh (see also Country Centres)	,,	Dandenong	A.C., 3 ph. and 1 ph.	201	67	1 and 5	19.7.26
Burwood (see also Country Centres)	,,	,,	A.C., 1 ph.	25	8	1 and 5	7.10.38
Ballarat.							
City of Ballarat (including Alfredton, Ballarat East, Ballarat North, Brown Hill, Canadian and Mt. Pleasant)	Ballarat	Ballarat	A.C., 3 ph. D.C., 3 wire	43,200	12,225	2, 4 and 5	1.7.34
Borough of Sebastopol	,,	,,	A.C., 3 ph.				(Mt. Clear 30.6.37)
Ballarat Shire (Wendouree only)	,,	,,	A.C., 3 ph.				
Mt. Clear	,,	,,	A.C., 1 ph.				
Bendigo.							
City of Bendigo (including Golden Square, Long Gully, and White Hills)	Bendigo	Bendigo	A.C., 3 ph.	37,350	10,416	2, 4, and 5	1.7.34
Borough of Eaglehawk	,,	,,	A.C., 3 ph. and 1 ph.				1.2.36
Huntly Shire (portion only, including Epsom)	,,	,,	A.C., 3 ph. and 1 ph.				19.5.37 (Epsom 29.12.39)
Marong Shire (portion only, including Kangaroo Flat)	,,	,,	A.C., 3 ph. and 1 ph.				1.7.34
Strathfieldsaye Shire (portion only, including Bendigo East, Grassy Flat, Kennington and Spring Gully)	,,	,,	A.C., 3 ph. and 1 ph.				1.7.34
Geelong.							
City of Geelong	Geelong	Geelong	A.C., 3 ph. D.C., 3 wire	59,500	15,620	2, 4 and 5	1.9.30 (Fyansford 10.10.38)
City of Geelong West	,,	,,	A.C., 3 ph.				
Newtown and Chilwell	,,	,,	A.C., 3 ph.				
Corio Shire (North Geelong, North Shore and Fyansford)	,,	,,	A.C., 3 ph.				
South Barwon Shire (Belmont, Grovedale and Highton)	,,	,,	A.C., 3 ph.				
Bellarine Shire (Whittington)	,,	,,	A.C., 3 ph.				

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

Municipality or Centre	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 13, Columns No.	Date Supply First Undertaken by Commission.
Country.							
Acheron	N/E.	Alexandra	A.C., 1 ph.	78	59	3, 4 and 5	24.11.37
Addington	Ballarat	Ballarat	A.C., 1 ph.	30	24	3, 4 and 5	13.4.49
Adelaide Lead	Mid.	Maryborough	A.C., 1 ph.	30	1	3, 4 and 5	19.5.50
Agnes	Gipps.	Foster	A.C., 1 ph.	50	32	3, 4 and 5	1.11.38
Airey's Inlet	S/W.	Lorne	A.C., 1 ph.	95	69	3, 4 and 5	24.12.36
Airly	Gipps.	Sale	A.C., 1 ph.	100	37	3, 4 and 5	16.6.37
Alberton	Gipps.	Yarram	A.C., 3 ph.	300	61	3, 4 and 5	1.10.46
Alberton West	Gipps.	Yarram	A.C., 1 ph.	188	22	3, 4 and 5	18.8.47
Alexandra	N/E.	Alexandra	A.C., 3 ph.	1,132	465	3, 4 and 5	11.4.27
Allansford	S/W.	Warrnambool	A.C., 1 ph.	450	83	3, 4 and 5	20.11.24
Allendale	Ball.	Ballarat	A.C., 3 ph.	100	28	3, 4 and 5	4.11.47
Altona	Metro.	Werribee	A.C., 3 ph. and 1 ph.	4,168	1,059	2, 4 and 5	9.12.24
Alvie	S/W.	Colac	A.C., 1 ph.*	130	33	3, 4 and 5	15.10.24
Amphitheatre	Mid.	Maryborough	A.C., 3 ph.	345	36	3, 4 and 5	24.8.49
Anglesea	S/W.	Lorne	A.C., 3 ph. and 1 ph.*	190	177	3, 4 and 5	21.12.36
Archie's Creek	Gipps.	Korumburra	A.C., 3 ph. and 1 ph.	280	72	3, 4 and 5	1.9.40
Ardmona	N/E.	Shepparton	A.C., 3 ph. and 1 ph.	211	204	3, 4 and 5	25.3.38
Ascot	Ball.	Ballarat	A.C., 3 ph.	35	25	3, 4 and 5	7.12.38
Aspendale Rural	E/M.	Chelsea	A.C., 3 ph.	18	7	3, 4 and 5	31.12.44
Avenel	N/E.	Seymour	A.C., 3 ph. and 1 ph.	408	102	3, 4 and 5	22.3.48
Avoca	Mid.	Maryborough	A.C., 3 ph. and 1 ph.	920	346	3, 4 and 5	1.8.40
Bacchus Marsh	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	2,975	867	2, 4 and 5	3.6.41
Bacchus Marsh Rural	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	(See Bacchus Marsh)		3, 4 and 5	3.6.41
Baddaginnie	N/E.	Benalla	A.C., 1 ph.	105	35	3, 4 and 5	23.7.36
Badger Creek	E/M.	Healesville	A.C., 1 ph.	163	41	2,4 and 5 3,4 and 5	1.4.33
Bairnsdale	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	4,500	1,508	2, 4 and 5	1.4.27
Bairnsdale Rural	Gipps.	Bairnsdale	A.C., 1 ph.	200	13	3, 4 and 5	13.2.36
Bald Hills	Ball.	Ballarat	A.C., 1 ph.	30	3	3, 4 and 5	13.7.38
Balintore	S/W.	Colac	A.C., 1 ph.	50	10	3, 4 and 5	1.6.37
Ballan	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	945	250	3, 4 and 5	1.3.40
Ballarat Rural	Ball.	Ballarat	A.C., 3 ph.	150	36	3, 4 and 5	1.7.34
Ballendella	N/E.	Rochester	A.C., 3 ph. and 1 ph.	163	87	3, 4 and 5	20.3.40
Balmattum	N/E.	Benalla	A.C., 1 ph.	35	9	3, 4 and 5	8.10.37
Bamawm	N/E.	Rochester	A.C., 3 ph. and 1 ph.	710	287	3, 4 and 5	19.12.45
Bamawm Extension	N/E.	Rochester	A.C., 3 ph. and 1 ph.	(See Bamawm)		3, 4 and 5	23.2.48
Bandiana	N/E.	Wodonga	A.C., 3 ph. and 1 ph.	(See Kiewa)		3, 4 and 5	12.4.39
Baranduda	N/E.	Wodonga	A.C., 3 ph. and 1 ph.	(See Kiewa)		3, 4 and 5	19.6.46
Baringhup	Mid.	Castlemaine	A.C., 3 ph.	30	3	3, 4 and 5	23.10.47
Barker's Creek	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	200	30	3, 4 and 5	15.12.44
Barnawartha	N/E.	Wodonga	A.C., 1 ph.	287	64	3, 4 and 5	7.10.27
Barpinba	S/W.	Colac	A.C., 1 ph.*	11	2	3, 4 and 5	8.6.44
Barrabool	Geel.	Geelong	A.C., 1 ph.	150	29	3, 4 and 5	10.12.45
Barwo	N/E.	Numurkah	A.C., 3 ph. and 1 ph.	33	18	3, 4 and 5	24.4.45
Barwon Heads	Geel.	Queenscliff	A.C., 1 ph.	725	360	3, 4 and 5	6.9.24
Batesford	Geel.	Geelong	A.C., 1 ph.	150	26	3, 4 and 5	28.2.39
Baxter	E/M.	Frankston	A.C., 1 ph.	301	94	3, 4 and 5	11.8.49
Bayles	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	240	114	3, 4 and 5	11.9.35
Bayswater	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	1,472	480	2, 4 and 5 3, 4 and 5	24.7.26
Beaconsfield	E/M.	Dandenong	A.C., 1 ph.	185	101	3, 4 and 5	18.6.28
Beeac	S/W.	Colac	A.C., 1 ph.	480	130	3, 4 and 5	21.5.24
Beechworth	N/E.	Beechworth	A.C., 3 ph.	2,671	651	2, 4 and 5	2.9.46
Belgrave	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	2,656	1,217	2, 4 and 5	24.8.25
Bellbrae	Geel.	Geelong	A.C., 1 ph.	20	5	3, 4 and 5	9.8.44
Bena	Gipps.	Korumburra	A.C., 3 ph. and 1 ph.	375	126	3, 4 and 5	10.7.30
Benalla	N/E.	Benalla	A.C., 3 ph.	5,104	1,548	2, 4 and 5	1.5.26
Benalla Rural	N/E.	Benalla	A.C., 1 ph.	140	72	3, 4 and 5	26.5.37
Bennison	Gipps.	Foster	A.C., 1 ph.	80	22	3, 4 and 5	29.10.38
Berwick	E/M.	Dandenong	A.C., 1 ph.	726	336	3, 4 and 5	7.5.28
Birregurra	S/W.	Colac	A.C., 1 ph.	450	148	3, 4 and 5	30.10.24
Bittern	E/M.	Frankston	A.C., 1 ph.	147	34	3, 4 and 5	22.12.37
Blampied	Ball.	Daylesford	A.C., 1 ph.	50	12	3, 4 and 5	23.4.47
Blowhard	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	55	20	3, 4 and 5	28.7.49
Bobinawarrah	N/E.	Wangaratta	A.C., 3 ph.	(See Moyhu)		3, 4 and 5	21.4.50
Boisdale	Gipps.	Maffra	A.C., 1 ph.	510	203	3, 4 and 5	13.7.37
Bona Vista	Gipps.	Warragul	A.C., 1 ph.	135	46	3, 4 and 5	30.12.38
Bonegilla	N/E.	Wodonga	A.C., 3 ph.	50	37	3, 4 and 5	18.12.40
Bonnie Doon	N/E.	Mansfield	A.C., 1 ph.	281	58	3, 4 and 5	31.1.41
Bookar	S/W.	Camperdown	A.C., 1 ph.	20	6	3, 4 and 5	10.8.37
Boolarra	Gipps.	Morwell	A.C., 3 ph. and 1 ph.	420	85	3, 4 and 5	29.10.24
Boolarra South	Gipps.	Leongatha	A.C., 1 ph.	90	24	3, 4 and 5	1.8.40
Boronia	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	1,918	728	2, 4 and 5	23.1.27
Bostock's Creek	S/W.	Camperdown	A.C., 1 ph.*	55	15	3, 4 and 5	15.12.24
Bowen Vale	Mid.	Maryborough	A.C., 1 ph.	50	7	3, 4 and 5	10.5.40
Bowser	N/E.	Wangaratta	A.C., 3 ph.	90	7	3, 4 and 5	23.4.34
Braeside	Metro. and E/M.	Melbourne Dandenong	A.C., 3 ph. and 1 ph.	171	46	3, 4 and 5	27.6.30
Brandy Creek	Gipps.	Warragul	A.C., 1 ph.	100	27	3, 4 and 5	15.2.39
Briagolong	Gipps.	Maffra	A.C., 1 ph.	500	121	3, 4 and 5	5.3.37
Briar Hill	E/M.	Greensborough	A.C., 3 ph.	476	165	2, 4 and 5	12.5.26
Bridgewater	Bend.	Inglewood	A.C., 3 ph. and 1 ph.	500	140	3, 4 and 5	27.4.40
Bright	N/E.	Myrtleford	A.C., 3 ph.	1,597	273	3, 4 and 5	1.12.41

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

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 13, Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Broadford	N/E.	Seymour	A.C., 3 ph.	1,318	360	3, 4 and 5	31.8.48
Broadmeadows	Metro.	Melbourne	A.C., 3 ph.	608	129	3, 4 and 5	18.11.35
Broomfield	Ball.	Daylesford	A.C., 1 ph.	45	11	3, 4 and 5	17.2.49
Bruthen	Gipps.	Lakes Entrance	A.C., 1 ph.	632	145	3, 4 and 5	1.10.30
Buckley	S/W.	Colac	A.C., 1 ph.*	12	2	3, 4 and 5	20.9.48
Buffalo River	N/E.	Myrtleford	A.C., 3 ph. and 1 ph.	55	34	3, 4 and 5	24.1.45
Bulla	Mid.	Sunbury	A.C., 1 ph.	210	28	3, 4 and 5	10.11.36
Bullaharre	S/W.	Camperdown	A.C., 1 ph.*	21	11	3, 4 and 5	30.10.45
Bullarook	Ball.	Ballarat	A.C., 1 ph.	95	22	3, 4 and 5	25.11.49
Bullock Swamp	S/W.	Colac	A.C., 1 ph.*	55	15	3, 4 and 5	12.9.24
Buln Buln	Gipps.	Warragul	A.C., 1 ph.	211	69	3, 4 and 5	1.12.30
Bundalaguah	Gipps.	Sale	A.C., 1 ph.	250	43	3, 4 and 5	13.11.36
Bundoora	E/M.	Greensborough	A.C., 3 ph. and 1 ph.	167	52	3, 4 and 5	31.12.27
Bungaree	Ball.	Ballarat	A.C., 3 ph.	180	54	3, 4 and 5	14.5.40
Bung Bong	Mid.	Maryborough	A.C., 3 ph. and 1 ph.	20	10	3, 4 and 5	21.4.41
Buninyong	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	665	163	3, 4 and 5	14.1.37
Bunyip	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	1,000	177	3, 4 and 5	15.10.28
Burramine	N/E.	Yarrawonga	A.C., 3 ph. and 1 ph.	92	29	3, 4 and 5	12.9.35
Burrumbeet	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	150	44	3, 4 and 5	15.12.47
Burwood (see also Metropolitan Centres)	E/M.	Dandenong	A.C., 1 ph.	30	10	3, 4 and 5	7.10.38
Bushfield	S/W.	Warrnambool	A.C., 1 ph.	110	22	3, 4 and 5	8.12.49
Byaduk	S/W.	Port Fairy	A.C., 1 ph.*	80	26	3, 4 and 5	10.12.48
Byrneside	N/E.	Shepparton	A.C., 1 ph.	66	43	3, 4 and 5	24.5.37
Caldermeade	Gipps.	Koo-wee-rup	A.C., 1 ph.	150	61	3, 4 and 5	6.9.35
Calivil	Bend.	Inglewood	A.C., 1 ph.	300	89	3, 4 and 5	13.12.48
Cambrian Hill	Ball.	Ballarat	A.C., 1 ph.	70	19	3, 4 and 5	25.7.49
Campbellfield	Metro.	Melbourne	A.C., 3 ph. and 1 ph.	444	69	3, 4 and 5	14.9.36
Campbell's Creek	Mid.	Castlemaine	A.C., 1 ph.	500	141	3, 4 and 5	28.11.41
Campbell's Forest	Bend.	Inglewood	A.C., 1 ph.	25	5	3, 4 and 5	22.3.48
Camperdown	S/W.	Camperdown	A.C., 3 ph. and 1 ph.*	3,650	974	2, 4 and 5	30.12.23
Camperdown Rural	S/W.	Camperdown	A.C., 3 ph. and 1 ph.	2,088	710	3, 4 and 5	9.1.36
Caramut	S/W.	Terang	A.C., 1 ph.	170	44	3, 4 and 5	12.8.38
Carisbrook	Mid.	Maryborough	A.C., 3 ph. and 1 ph.	360	169	3, 4 and 5	24.11.37
Carlsruhe	Mid.	Kyneton	A.C., 1 ph.	64	4	3, 4 and 5	13.9.44
Carranballac	S/W.	Willaura	A.C., 1 ph.*	60	9	3, 4 and 5	18.10.39
Carrum Rural	E/M.	Chelsea	A.C., 3 ph.	100	31	3, 4 and 5	31.12.44
Castlemaine	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	6,918	1,713	2, 4 and 5	31.12.29
Catani	Gipps.	Koo-wee-rup	A.C., 1 ph.	200	94	3, 4 and 5	27.10.36
Ceres	Geel.	Geelong	A.C., 1 ph.	280	43	3, 4 and 5	26.11.45
Chelsea Rural	E/M.	Chelsea	A.C., 1 ph.	64	21	3, 4 and 5	31.12.44
Chewton	Mid.	Castlemaine	A.C., 3 ph.	700	119	3, 4 and 5	23.9.38
Chiltern	N/E.	Rutherglen	A.C., 3 ph.	1,220	198	3, 4 and 5	1.9.26
Chocolyn	S/W.	Camperdown	A.C., 1 ph.	20	7	3, 4 and 5	14.1.38
Clarkefield	Mid.	Sunbury	A.C., 1 ph.	48	7	3, 4 and 5	13.3.45
Clayton	Metro. and E/M.	Melbourne Dandenong	A.C., 3 ph. and 1 ph.	2,459	652	2, 4 and 5	30.4.26
Clayton South	Metro.	Melbourne	A.C., 3 ph.	46	9	2, 4 and 5	10.11.44
Clematis	E/M.	Belgrave	A.C., 1 ph.	129	50	3, 4 and 5	24.8.34
Clifton Springs	Geel.	Queenscliff	A.C., 1 ph.	30	3	3, 4 and 5	15.12.26
Cloverlea	Gipps.	Trafalgar	A.C., 1 ph.	260	92	3, 4 and 5	7.4.30
Clunes	Ball.	Ballarat	A.C., 3 ph.	1,000	287	3, 4 and 5	9.2.38
Clydebank	Gipps.	Sale	A.C., 1 ph.	100	24	3, 4 and 5	9.4.36
Cobden	S/W.	Camperdown	A.C., 3 ph. and 1 ph.*	800	304	3, 4 and 5	26.3.24
Cobram	N/E.	Cobram	A.C., 3 ph.	1,071	430	3, 4 and 5	1.10.28
Cobrico	S/W.	Camperdown	A.C., 1 ph.*	6	4	3, 4 and 5	22.12.38
Coghill's Creek	Ball.	Ballarat	A.C., 1 ph.	25	14	3, 4 and 5	7.2.46
Colac	S/W.	Colac	A.C., 3 ph. and 1 ph.	7,100	2,121	2, 4 and 5	1.9.23
Colac Rural	S/W.	Colac	A.C., 3 ph. and 1 ph.	2,370	846	3, 4 and 5	9.1.36
Coldstream	E/M.	Lilydale	A.C., 3 ph. and 1 ph.	145	51	3, 4 and 5	1.7.33
Coleraine	S/W.	Hamilton	A.C., 3 ph. and 1 ph.*	1,070	359	3, 4 and 5	1.7.46
Condah Swamp	S/W.	Port Fairy	A.C., 1 ph.	85	9	3, 4 and 5	18.10.45
Congupna	N/E.	Shepparton	A.C., 3 ph.	66	27	3, 4 and 5	7.9.34
Connewarre	Geel.	Queenscliff	A.C., 1 ph.	155	15	3, 4 and 5	10.8.44
Coragulac	S/W.	Colac	A.C., 1 ph.	110	23	3, 4 and 5	30.4.24
Cora-Lynn	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	300	115	3, 4 and 5	9.8.35
Cororooke	S/W.	Colac	A.C., 3 ph. and 1 ph.*	425	92	3, 4 and 5	27.3.24
Corunnun	S/W.	Colac	A.C., 1 ph.	25	7	3, 4 and 5	12.7.44
Couangalt	Mid.	Sunbury	A.C., 1 ph.	(See Gisborne)		3, 4 and 5	1.8.37
Cowwarr	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	375	106	3, 4 and 5	8.11.24
Craigieburn	Metro.	Melbourne	A.C., 3 ph.*	148	27	3, 4 and 5	18.7.42
Cranbourne	E/M.	Dandenong	A.C., 1 ph.	565	210	3, 4 and 5	12.9.28
Cressy	S/W.	Colac	A.C., 1 ph.	335	81	3, 4 and 5	19.11.41
Creswick	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	1,645	411	3, 4 and 5	24.11.37
Crib Point	E/M.	Frankston	A.C., 1 ph.	660	194	3, 4 and 5	23.8.29
Crossley	S/W.	Port Fairy	A.C., 1 ph.*	80	21	3, 4 and 5	16.3.38
Croydon	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	3,174	1,427	6	1.4.25
Cudgee	S/W.	Warrnambool	A.C., 1 ph.*	70	13	3, 4 and 5	7.12.38
Curlewis	Geel.	Queenscliff	A.C., 1 ph.	90	19	3, 4 and 5	21.9.46
Dalmore	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	150	39	3, 4 and 5	29.1.37
Dalyston	Gipps.	Korumburra	A.C., 1 ph.	230	51	3, 4 and 5	15.11.40
Dandenong	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	7,496	2,513	2, 4 and 5	1.10.23

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

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 13, Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Darley	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	(See Bacchus Marsh)		3, 4 and 5	9.9.40
Darlington	S/W.	Camperdown	A.C., 1 ph.*	80	16	3, 4 and 5	22.4.38
Darnum	Gipps.	Trafalgar	A.C., 3 ph.	300	63	3, 4 and 5	20.12.24
Dawson	Gipps.	Maffra	A.C., 1 ph.	20	7	3, 4 and 5	16.4.37
Daylesford	Ball.	Daylesford	A.C., 3 ph.	3,200	981	2, 4 and 5	31.10.40
Dean	Ball.	Ballarat	A.C., 1 ph.	100	14	3, 4 and 5	5.4.50
Dederang	N/E.	Wodonga	A.C., 1 ph.	264	35	3, 4 and 5	6.5.49
Deer Park	Metro.	Sunshine	A.C., 3 ph.	665	128	3, 4 and 5	14.2.29
Deer Park Rural	Mid.	Bacchus Marsh	A.C., 1 ph.	8	4	3, 4 and 5	18.5.48
Dennington	S/W.	Warrnambool	A.C., 3 ph. and 1 ph.	500	110	3, 4 and 5	1.2.29
Derrinallum	S/W.	Camperdown	A.C., 1 ph.	200	85	3, 4 and 5	20.4.38
Devenish	N/E.	Yarrawonga	A.C., 3 ph.	215	50	3, 4 and 5	14.2.40
Devon North	Gipps.	Yarram	A.C., 1 ph.	242	38	3, 4 and 5	31.7.46
Diamond Creek	E/M.	Greensborough	A.C., 3 ph. and 1 ph.	600	173	3, 4 and 5	10.5.29
Digger's Rest	Mid.	Sunbury	A.C., 3 ph. and 1 ph.	127	46	3, 4 and 5	15.3.29
Dingee	Bend.	Inglewood	A.C., 1 ph.	300	70	3, 4 and 5	9.11.44
Dingley	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	392	95	3, 4 and 5	10.10.29
Dixie	S/W.	Terang	A.C., 1 ph.*	20	5	3, 4 and 5	24.9.45
Donnybrook	E/M.	Greensborough	A.C., 1 ph.	233	24	3, 4 and 5	11.3.41
Dookie	N/E.	Shepparton	A.C., 1 ph.	279	87	3, 4 and 5	8.3.37
Driffield	Gipps.	Morwell	A.C., 1 ph.	105	21	3, 4 and 5	6.4.38
Dromana	E/M.	Sorrento	A.C., 3 ph. and 1 ph.	1,022	538	2, 4 and 5	8.12.27
Drouin	Gipps.	Warragul	A.C., 3 ph.	1,800	468	3, 4 and 5	1.10.24
Drouin Rural	Gipps.	Warragul	A.C., 1 ph.	232	84	3, 4 and 5	13.11.28
Drouin West	Gipps.	Warragul	A.C., 1 ph.	100	27	3, 4 and 5	18.2.39
Drysdale	Geel.	Queenscliff	A.C., 1 ph.	1,350	271	3, 4 and 5	13.2.24
Dumbalk	Gipps.	Leongatha	A.C., 3 ph. and 1 ph.	150	84	3, 4 and 5	14.9.36
Dumbalk North	Gipps.	Leongatha	A.C., 1 ph.	100	102	3, 4 and 5	7.8.39
Dundonnell	S/W.	Camperdown	A.C., 1 ph.*	17	7	3, 4 and 5	22.4.47
Dunkeld	S/W.	Hamilton	A.C., 1 ph.	430	110	3, 4 and 5	10.8.39
Dunnstown	Ball.	Ballarat	A.C., 1 ph.	100	44	3, 4 and 5	2.6.49
Dunolly	Mid.	Maryborough	A.C., 3 ph.	657	222	3, 4 and 5	31.3.38
East Oakleigh (see also Metropolitan Centres)	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	51	17	2, 4 and 5	19.7.26
Eastern View	S/W.	Lorne	A.C., 1 ph.*	50	19	3, 4 and 5	7.9.39
Echuca	N/E.	Echuca	A.C., 3 ph.	5,250	1,380	2, 4 and 5	10.11.24
Echuca Rural	N/E.	Echuca	A.C., 3 ph. and 1 ph.	261	110	3, 4 and 5	12.11.36
Edithvale Rural	E/M.	Chelsea	A.C., 1 ph.	48	10	3, 4 and 5	31.12.44
Eildon Weir	N/E.	Alexandra	A.C., 1 ph.	122	33	3, 4 and 5	28.4.39
Eldorado	N/E.	Wangaratta	A.C., 3 ph.	207	37	3, 4 and 5	1.4.39
Elingamite North	S/W.	Camperdown	A.C., 1 ph.*	12	4	3, 4 and 5	11.6.46
Elliminyt	S/W.	Colac	A.C., 1 ph.	(See Colac)		2, 4 and 5	1.7.24
Ellinbank	Gipps.	Warragul	A.C., 1 ph.	120	53	3, 4 and 5	9.9.36
Elmore	Bend.	Bendigo	A.C., 3 ph.	725	265	3, 4 and 5	2.9.47
Elphinstone	Mid.	Castlemaine	A.C., 1 ph.	215	28	3, 4 and 5	4.11.38
Eltham	E/M.	Greensborough	A.C., 3 ph. and 1 ph.	1,570	492	3, 4 and 5	12.8.26
Emerald	E/M.	Belgrave	A.C., 1 ph.	1,056	232	3, 4 and 5	7.8.34
Epping	E/M.	Greensborough	A.C., 3 ph. and 1 ph.	377	128	3, 4 and 5	15.7.36
Euroa	N/E.	Euroa	A.C., 3 ph.	3,374	725	2, 4 and 5	20.3.28
Eurobin	N/E.	Myrtleford	A.C., 3 ph.	74	36	3, 4 and 5	1.8.44
Everton	N/E.	Myrtleford	A.C., 3 ph.	66	44	3, 4 and 5	8.8.45
Exford	Mid.	Bacchus Marsh	A.C., 1 ph.	(See Melton)		3, 4 and 5	20.12.39
Ferny Creek	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	361	62	3, 4 and 5	2.9.27
Fish Creek	Gipps.	Foster	A.C., 3 ph. and 1 ph.	370	169	3, 4 and 5	9.7.38
Flinders	E/M.	Mornington	A.C., 1 ph.	289	138	3, 4 and 5	28.10.38
Flynn	Gipps.	Traralgon	A.C., 1 ph.	205	57	3, 4 and 5	5.9.38
Foster	Gipps.	Foster	A.C., 3 ph. and 1 ph.	700	248	3, 4 and 5	30.4.38
Frankston	E/M.	Frankston	A.C., 3 ph. and 1 ph.	5,585	2,702	2, 4 and 5	21.2.28
Freeburgh	N/E.	Myrtleford	A.C., 3 ph.	22	1	3, 4 and 5	20.11.47
Freshwater Creek	Geel.	Geelong	A.C., 1 ph.	60	18	3, 4 and 5	30.4.41
Gainsborough	Gipps.	Warragul	A.C., 1 ph.	158	30	3, 4 and 5	28.9.36
Gapsted	N/E.	Myrtleford	A.C., 3 ph.	105	54	3, 4 and 5	13.4.44
Garfield	Gipps.	Koo-wee-rup	A.C., 1 ph.	680	134	3, 4 and 5	1.8.29
Garvoc	S/W.	Terang	A.C., 1 ph.*	150	23	3, 4 and 5	25.9.37
Geelengla	S/W.	Camperdown	A.C., 1 ph.*	12	4	3, 4 and 5	6.12.44
Geelong Rural	Geel.	Geelong	A.C., 3 ph. and 1 ph.	130	52	3, 4 and 5	10.10.38
Gelliondale	Gipps.	Yarram	A.C., 1 ph.	102	8	3, 4 and 5	23.1.47
Girgarre	N/E.	Kyabram	A.C., 3 ph.	277	124	3, 4 and 5	19.5.38
Girgarre East	N/E.	Kyabram	A.C., 1 ph.	(See Girgarre)		3, 4 and 5	11.8.46
Gisborne	Mid.	Sunbury	A.C., 3 ph. and 1 ph.	1,288	194	3, 4 and 5	1.10.28
Glen Alvie	Gipps.	Korumburra	A.C., 1 ph.	256	38	3, 4 and 5	23.12.40
Glen Forbes	Gipps.	Korumburra	A.C., 3 ph.	350	43	3, 4 and 5	11.3.43
Glengarry	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	350	105	3, 4 and 5	14.8.28
Glenormiston North	S/W.	Terang	A.C., 1 ph.*	30	14	3, 4 and 5	21.6.46
Glenormiston South	S/W.	Terang	A.C., 3 ph. and 1 ph.*	100	27	3, 4 and 5	10.9.29
Glenthompson	S/W.	Willaura	A.C., 1 ph.	220	75	3, 4 and 5	17.10.47
Glenvale	E/M.	Greensborough	A.C., 1 ph.	178	44	3, 4 and 5	12.4.40
Glen Waverley	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	902	245	2, 4 and 5	1.6.28
Gnarwarre	Geel.	Geelong	A.C., 1 ph.	150	9	3, 4 and 5	10.12.45
Gnotuk	S/W.	Camperdown	A.C., 1 ph.	60	14	3, 4 and 5	1.3.36
Gooram	N/E.	Euroa	A.C., 1 ph.	50	20	3, 4 and 5	11.5.39

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

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 13, Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Goorambat	N/E.	Benalla	A.C., 3 ph.	84	55	3, 4 and 5	19.2.40
Goornong	Bend.	Bendigo	A.C., 3 ph.	150	46	3, 4 and 5	23.12.48
Gordon	Ball.	Ballarat	A.C., 1 ph.	300	48	3, 4 and 5	29.5.40
Gormandale	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	270	87	3, 4 and 5	14.10.38
Grahamvale	N/E.	Shepparton	A.C., 1 ph.	(See Shepparton East)		3, 4 and 5	20.7.37
Grassy Spur	Gipps.	Foster	A.C., 1 ph.	90	45	3, 4 and 5	26.10.39
Greensborough	E/M.	Greensborough	A.C., 3 ph.	1,589	464	2, 4 and 5	23.3.26
Greenvale	Metro.	Melbourne	A.C., 3 ph.	160	33	3, 4 and 5	15.7.38
Gundowring	N/E.	Wodonga	A.C., 1 ph.	320	96	3, 4 and 5	6.5.49
Hallam	E/M.	Dandenong	A.C., 1 ph.	239	92	3, 4 and 5	27.8.37
Hallora	Gipps.	Warragul	A.C., 1 ph.	53	16	3, 4 and 5	12.12.44
Hamilton	S/W.	Hamilton	A.C., 3 ph. and 1 ph.* D.C., 2 wire	7,600	2,083	2, 4 and 5	1.7.46
Hamilton Rural	S/W.	Hamilton	A.C., 3 ph. and 1 ph.	280	75	3, 4 and 5	1.7.46
Hampton Park	E/M.	Dandenong	A.C., 1 ph.	285	80	3, 4 and 5	29.6.42
Harcourt	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	500	249	3, 4 and 5	9.4.33
Harkaway	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	168	53	3, 4 and 5	31.7.40
Harrietville	N/E.	Myrtleford	A.C., 3 ph.	169	70	3, 4 and 5	29.6.40
Harrisfield	E/M.	Dandenong	A.C., 3 ph.	543	104	2, 4 and 5	22.10.35
Hastings	E/M.	Frankston	A.C., 3 ph. and 1 ph.	679	230	3, 4 and 5	28.3.27
Hawkesdale	S/W.	Port Fairy	A.C., 1 ph.*	230	28	3, 4 and 5	26.4.40
Hazelwood	Gipps.	Morwell	A.C., 1 ph.	440	102	3, 4 and 5	9.9.36
Hazelwood North	Gipps.	Morwell	A.C., 1 ph.	150	61	3, 4 and 5	21.12.37
Healesville	E/M.	Healesville	A.C., 3 ph. and 1 ph.	3,472	834	2, 4 and 5	1.4.33
Heatherton (Part)	Metro.	Melbourne	A.C., 3 ph.	55	11	3, 4 and 5	10.12.40
Heathmont	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	386	136	6	25.3.37
Hedley	Gipps.	Yarram	A.C., 1 ph.	100	12	3, 4 and 5	6.5.47
Hepburn Springs	Ball.	Daylesford	A.C., 3 ph.	640	307	3, 4 and 5	1.10.40
Herne's Oak	Gipps.	Morwell	A.C., 1 ph.	616	140	3, 4 and 5	18.9.36
Hexham	S/W.	Terang	A.C., 1 ph.*	120	20	3, 4 and 5	8.7.38
Heyfield	Gipps.	Maffra	A.C., 3 ph. and 1 ph.	1,500	335	3, 4 and 5	15.9.24
Hillside	Gipps.	Bairnsdale	A.C., 1 ph.	50	31	3, 4 and 5	29.5.36
Hoddle	Gipps.	Foster	A.C., 1 ph.	50	22	3, 4 and 5	2.10.47
Homewood	N/E.	Alexandra	A.C., 1 ph.	55	19	3, 4 and 5	19.7.49
Huntly	Bend.	Bendigo	A.C., 1 ph.	260	98	3, 4 and 5	21.11.44
Huon	N/E.	Wodonga	A.C., 1 ph.	(See Kiewa)		3, 4 and 5	12.4.39
Illowa	S/W.	Port Fairy	A.C., 1 ph.*	100	28	3, 4 and 5	30.9.37
Inglewood	Bend.	Inglewood	A.C., 3 ph.	1,050	301	3, 4 and 5	3.12.46
Inverloch	Gipps.	Korumburra	A.C., 1 ph.	560	241	3, 4 and 5	1.10.34
Iona	Gipps.	Koo-wee-rup	A.C., 1 ph.	415	30	3, 4 and 5	10.7.42
Irrewarra	S/W.	Colac	A.C., 1 ph.*	150	28	3, 4 and 5	23.2.26
Jack River	Gipps.	Yarram	A.C., 1 ph.	150	59	3, 4 and 5	31.7.46
Jancourt	S/W.	Camperdown	A.C., 1 ph.	50	4	3, 4 and 5	25.5.39
Janefield	E/M.	Greensborough	A.C., 1 ph.	36	12	3, 4 and 5	14.1.47
Jeetho	Gipps.	Korumburra	A.C., 1 ph.	159	17	3, 4 and 5	4.11.41
Jindivick	Gipps.	Warragul	A.C., 1 ph.	225	105	3, 4 and 5	23.8.38
Johnsonville	Gipps.	Lakes Entrance	A.C., 1 ph.	120	45	3, 4 and 5	24.1.36
Joyce's Creek	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	70	4	3, 4 and 5	16.12.39
Jumbunna	Gipps.	Korumburra	A.C., 1 ph.	372	46	3, 4 and 5	24.10.30
Junorton	Bend.	Bendigo	A.C., 1 ph.	80	20	3, 4 and 5	8.5.50
Kalimna	Gipps.	Lakes Entrance	A.C., 1 ph.	161	26	3, 4 and 5	6.12.28
Kalkallo	E/M.	Greensborough	A.C., 1 ph.	42	10	3, 4 and 5	11.3.41
Kallista	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	514	237	3, 4 and 5	19.8.27
Kalorama	E/M.	Belgrave	A.C., 1 ph.	335	144	3, 4 and 5	31.5.34
Kangaroo Flat (see also Bendigo Centres)	Bend.	Bendigo	A.C., 1 ph.	50	17	3, 4 and 5	6.9.46
Kangaroo Ground	E/M.	Greensborough	A.C., 1 ph.	40	4	3, 4 and 5	27.2.45
Kardella South	Gipps.	Korumburra	A.C., 1 ph.	109	10	3, 4 and 5	23.9.36
Kariah	S/W.	Camperdown	A.C., 1 ph.*	19	8	3, 4 and 5	12.11.38
Katamatite	N/E.	Cobram	A.C., 1 ph.	250	61	3, 4 and 5	14.7.39
Katandra	N/E.	Shepparton	A.C., 1 ph.	282	207	3, 4 and 5	10.10.45
Katunga	N/E.	Numurkah	A.C., 3 ph.	40	28	3, 4 and 5	10.12.41
Keilor	Metro.	Sunshine	A.C., 3 ph. and 1 ph.	416	113	3, 4 and 5	21.11.35
Kergunyah	N/E.	Wodonga	A.C., 1 ph.	110	94	3, 4 and 5	15.6.45
Kerrisdale	N/E.	Alexandra	A.C., 1 ph.	(See Yea)		3, 4 and 5	5.3.46
Keysborough	E/M.	Dandenong	A.C., 1 ph.	259	74	3, 4 and 5	21.8.41
Kialla East	N/E.	Shepparton	A.C., 1 ph.	38	23	3, 4 and 5	5.4.46
Kiewa	N/E.	Wodonga	A.C., 1 ph.	213	194	3, 4 and 5	12.4.39
Kilfeera	N/E.	Benalla	A.C., 1 ph.	(See Benalla Rural)		3, 4 and 5	24.12.41
Killarney	S/W.	Port Fairy	A.C., 1 ph.*	80	14	3, 4 and 5	14.5.35
Kilmany	Gipps.	Sale	A.C., 1 ph.	130	15	3, 4 and 5	14.6.49
Kilmany South	Gipps.	Sale	A.C., 1 ph.	125	13	3, 4 and 5	1.7.39
Kilsyth	E/M.	Ringwood	A.C., 1 ph.	352	130	6	1.4.25
Kingston	Ball.	Daylesford	A.C., 1 ph.	200	45	3, 4 and 5	16.9.39
Kirkstall	S/W.	Port Fairy	A.C., 1 ph.*	80	6	3, 4 and 5	9.4.40
Kolora	S/W.	Terang	A.C., 1 ph.	70	20	3, 4 and 5	21.3.25
Kongwak	Gipps.	Korumburra	A.C., 3 ph. and 1 ph.	370	143	3, 4 and 5	10.10.30
Koonwarra	Gipps.	Leongatha	A.C., 1 ph.	100	26	3, 4 and 5	24.9.40
Koo-wee-rup	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	1,100	313	3, 4 and 5	1.8.35

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

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 13, Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Koo-wee-rup North	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	182	51	3, 4 and 5	28.11.41
Koroit	S/W.	Port Fairy	A.C., 3 ph. and 1 ph.	1,700	281	3, 4 and 5	1.12.28
Korongah	S/W.	Port Fairy	A.C., 1 ph.*	30	4	3, 4 and 5	4.5.38
Korrine	Gipps.	Korumburra	A.C., 1 ph.	50	12	3, 4 and 5	19.12.40
Korumburra	Gipps.	Korumburra	A.C., 3 ph. and 1 ph.	2,358	752	2, 4 and 5	1.12.24
Korumburra Rural	Gipps.	Korumburra	A.C., 1 ph.	120	53	3, 4 and 5	1.11.35
Korumburra South	Gipps.	Korumburra	A.C., 1 ph.	100	9	3, 4 and 5	1.12.44
Koyuga	N/E.	Echuca	A.C., 1 ph.	(See Echuca Rural)		3, 4 and 5	12.11.36
Kyabram	N/E.	Kyabram	A.C., 3 ph.	2,259	779	2, 4 and 5	1.12.26
Kyabram Rural	N/E.	Kyabram	A.C., 3 ph. and 1 ph.	520	140	3, 4 and 5	6.10.28
Kyneton	Mid.	Kyneton	A.C., 3 ph. and 1 ph.	3,960	1,081	2, 4 and 5	1.10.29
Ky Valley	N/E.	Kyabram	A.C., 3 ph. and 1 ph.	223	159	3, 4 and 5	27.7.40
Laanecoorie	Mid.	Maryborough	A.C., 3 ph.	90	20	3, 4 and 5	21.2.46
Lake Bolac	S/W.	Willaura	A.C., 1 ph.*	300	54	3, 4 and 5	5.8.38
Lake Gillear	S/W.	Warrnambool	A.C., 1 ph.*	50	9	3, 4 and 5	8.7.38
Lakes Entrance	Gipps.	Lakes Entrance	A.C., 3 ph. and 1 ph.	1,267	342	3, 4 and 5	19.12.28
Lancaster	N/E.	Kyabram	A.C., 1 ph.	136	46	3, 4 and 5	1.6.35
Lance Creek	Gipps.	Korumburra	A.C., 1 ph.	95	32	3, 4 and 5	12.4.46
Lancefield	Mid.	Sunbury	A.C., 3 ph. and 1 ph.	819	172	3, 4 and 5	27.3.29
Lang Lang	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	850	186	3, 4 and 5	2.9.35
Langwarrin	E/M.	Frankston	A.C., 3 ph. and 1 ph.	235	75	3, 4 and 5	14.8.33
Lara	Geel.	Geelong	A.C., 3 ph. and 1 ph.	360	97	3, 4 and 5	1.9.30
Lara Lake	Geel.	Geelong	A.C., 3 ph. and 1 ph.	(See Lara)		3, 4 and 5	1.9.30
Lardner	Gipps.	Warragul	A.C., 1 ph.	105	40	3, 4 and 5	7.2.39
Larpent	S/W.	Colac	A.C., 1 ph.*	16	4	3, 4 and 5	20.12.44
Laverton	Metro.	Werribee	A.C., 3 ph. and 1 ph.	576	110	3, 4 and 5	22.11.38
Learmonth	Ball.	Ballarat	A.C., 3 ph.	400	91	3, 4 and 5	19.3.38
Leigh Creek	Ball.	Ballarat	A.C., 1 ph.	55	24	3, 4 and 5	27.8.40
Lemnos	N/E.	Shepparton	A.C., 1 ph.	446	58	3, 4 and 5	1.12.38
Leneva	N/E.	Wodonga	A.C., 1 ph.	(See Kiewa)		3, 4 and 5	24.2.47
Leongatha	Gipps.	Leongatha	A.C., 3 ph.	2,000	785	2, 4 and 5	15.2.24
Leongatha Rural	Gipps.	Leongatha	A.C., 1 ph.	60	74	3, 4 and 5	1.8.28
Leongatha South	Gipps.	Leongatha	A.C., 1 ph.	150	56	3, 4 and 5	24.9.40
Leopold	Geel.	Queenscliff	A.C., 1 ph.	(See Drysdale)		3, 4 and 5	13.2.24
Lillico	Gipps.	Warragul	A.C., 1 ph.	110	43	3, 4 and 5	20.4.45
Lilydale	E/M.	Lilydale	A.C., 3 ph. and 1 ph.	2,181	589	3, 4 and 5	1.4.25
Lindenow	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	250	66	3, 4 and 5	6.4.35
Lindenow South	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	150	41	3, 4 and 5	6.4.35
Linton	Ball.	Ballarat	A.C., 3 ph.	460	91	3, 4 and 5	7.9.39
Lismore	S/W.	Camperdown	A.C., 1 ph.	405	142	3, 4 and 5	26.4.38
Lismore Rural	S/W.	Camperdown	A.C., 1 ph.	750	220	3, 4 and 5	26.4.38
Loch	Gipps.	Korumburra	A.C., 1 ph.	617	207	3, 4 and 5	18.8.30
Lockington	N/E.	Rochester	A.C., 3 ph.	270	89	3, 4 and 5	7.8.47
Lockwood	E/M.	Belgrave	A.C., 1 ph.	219	108	3, 4 and 5	23.12.36
Longford	Gipps.	Sale	A.C., 3 ph.	50	4	3, 4 and 5	8.3.35
Longwarry	Gipps.	Koo-wee-rup	A.C., 3 ph. and 1 ph.	550	190	3, 4 and 5	11.10.28
Longwarry North	Gipps.	Koo-wee-rup	A.C., 1 ph.	175	69	3, 4 and 5	22.3.50
Lorne	S/W.	Lorne	A.C., 3 ph. and 1 ph.	1,090	507	3, 4 and 5	15.12.36
Lorne Rural	S/W.	Lorne	A.C., 1 ph.*	50	2	3, 4 and 5	15.7.47
Lovely Banks	Geel.	Geelong	A.C., 3 ph. and 1 ph.	100	8	3, 4 and 5	17.5.41
Lower Ferntree Gully	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	1,943	676	2, 4 and 5	24.8.25
Lower Plenty	E/M.	Greensborough	A.C., 1 ph.	555	171	3, 4 and 5	13.3.28
Lucknow	Gipps.	Bairnsdale	A.C., 3 ph.	150	87	2, 4 and 5	1.8.27
Lyndhurst	E/M.	Dandenong	A.C., 3 ph.	125	31	3, 4 and 5	19.1.38
Lysterfield	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	217	52	3, 4 and 5	17.7.37
Macarthur	S/W.	Port Fairy	A.C., 1 ph.	400	98	3, 4 and 5	3.4 40
Macarthur Rural	S/W.	Port Fairy	A.C., 1 ph.	650	252	3, 4 and 5	3.4.40
Macedon	Mid.	Woodend	A.C., 3 ph. and 1 ph.	1,490	363	3, 4 and 5	14.6.29
Maffra	Gipps.	Maffra	A.C., 3 ph.	3,200	815	2, 4 and 5	1.9.24
Maffra Rural	Gipps.	Maffra	A.C., 3 ph. and 1 ph.	250	87	3, 4 and 5	14.8.28
Magpie	Ball.	Ballarat	A.C., 1 ph.	40	12	3, 4 and 5	9.12.48
Maiden Gully	Bend.	Bendigo	A.C., 1 ph.	80	23	3, 4 and 5	18.4.47
Mailor's Flat	S/W.	Warrnambool	A.C., 1 ph.*	112	50	3, 4 and 5	19.12.49
Maindample	N/E.	Mansfield	A.C., 1 ph.	32	5	3, 4 and 5	20.5.41
Main Ridge	E/M.	Mornington	A.C., 3 ph. and 1 ph.	416	97	3, 4 and 5	13.5.48
Majorca	Mid.	Maryborough	A.C., 3 ph.	50	19	3, 4 and 5	11.4.45
Maldon	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	1,170	335	3, 4 and 5	1.7.36
Malmsbury	Mid.	Kyneton	A.C., 3 ph. and 1 ph.	584	97	3, 4 and 5	22.12.37
Malone's	S/W.	Warrnambool	A.C., 1 ph.*	60	11	3, 4 and 5	7.10.49
Mandurang	Bend.	Bendigo	A.C., 1 ph.	110	22	3, 4 and 5	23.5.45
Mangalore	N/E.	Seymour	A.C., 1 ph.	10	2	3, 4 and 5	10.9.48
Mannerim	Geel.	Queenscliff	A.C., 1 ph.	25	2	3, 4 and 5	21.9.46
Mansfield	N/E.	Mansfield	A.C., 3 ph.	860	368	3, 4 and 5	1.6.28
Marcus	Geel.	Queenscliff	A.C., 1 ph.	30	6	3, 4 and 5	10.8.36
Mardan	Gipps.	Leongatha	A.C., 1 ph.	150	40	3, 4 and 5	31.7.36
Markwood	N/E.	Wangaratta	A.C., 3 ph. and 1 ph.	100	51	3, 4 and 5	26.7.46
Marshall	Geel.	Geelong	A.C., 1 ph.	115	37	3, 4 and 5	6.10.39
Maryborough	Mid.	Maryborough	A.C., 3 ph.	6,650	1,924	2, 4 and 5	1.10.37
Maryvale	Gipps.	Morwell	A.C., 3 ph. and 1 ph.	370	82	3, 4 and 5	6.8.37
McCrae	E/M.	Sorrento	A.C., 3 ph.	488	236	2, 4 and 5	22.12.27
Meeniyan	Gipps.	Leongatha	A.C., 1 ph.	300	157	3, 4 and 5	14.9.36
Melton	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	480	170	3, 4 and 5	20.12.39

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

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 13, Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Melton South	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	(See Melton)		3, 4 and 5	31.1.40
Menzies Creek	E/M.	Belgrave	A.C., 1 ph.	80	11	3, 4 and 5	27.4.50
Mepunga	S/W.	Warrnambool	A.C., 1 ph.*	140	28	3, 4 and 5	30.5.49
Mernda	E/M.	Greensborough	A.C., 1 ph.	230	35	3, 4 and 5	28.9.37
Merriang	N/E.	Myrtleford	A.C., 3 ph.	(See Myrtleford)		3, 4 and 5	8.1.44
Merricks North	E/M.	Mornington	A.C., 3 ph. and 1 ph.	80	36	3, 4 and 5	24.5.40
Merrigum	N/E.	Kyabram	A.C., 3 ph.	370	191	3, 4 and 5	22.2.27
Merri View	S/W.	Warrnambool	A.C., 1 ph.*	180	37	2, 4 and 5	28.12.49
Metropolitan Farm (Werribee)	Metro.	Werribee	A.C., 3 ph.	341	49	3, 4 and 5	15.12.33
Metung	Gipps.	Lakes Entrance	A.C., 1 ph.	261	72	3, 4 and 5	23.12.35
Mickleham	Metro.	Melbourne	A.C., 3 ph. and 1 ph.	58	9	3, 4 and 5	12.6.39
Milawa	N/E.	Wangaratta	A.C., 3 ph. and 1 ph.	110	54	3, 4 and 5	27.7.39
Millgrove	E/M.	Warburton	A.C., 1 ph.	160	44	3, 4 and 5	9.11.49
Miner's Rest	Ball.	Ballarat	A.C., 3 ph.	90	44	3, 4 and 5	14.2.38
Mingay	S/W.	Camperdown	A.C., 1 ph.*	12	8	3, 4 and 5	22.3.50
Mirboo	Gipps.	Leongatha	A.C., 1 ph.	70	53	3, 4 and 5	7.8.39
Mirboo East	Gipps.	Leongatha	A.C., 1 ph.	70	15	3, 4 and 5	1.8.40
Mirboo North	Gipps.	Leongatha	A.C., 3 ph. and 1 ph.	700	276	3, 4 and 5	1.10.24
Moe	Gipps.	Trafalgar	A.C., 3 ph.	6,000	1,060	2, 4 and 5	23.9.23
Moe Rural	Gipps.	Trafalgar	A.C., 1 ph.	250	68	3, 4 and 5	14.7.30
Molesworth	N/E.	Alexandra	A.C., 1 ph.	(See Yea)		3, 4 and 5	5.3.46
Monbulk	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	505	218	3, 4 and 5	30.11.36
Monegeetta	Mid.	Sunbury	A.C., 3 ph. and 1 ph.	83	19	3, 4 and 5	3.5.29
Monomeith	Gipps.	Koo-wee-rup	A.C., 1 ph.	75	29	3, 4 and 5	17.1.36
Montmorency	E/M.	Greensborough	A.C., 1 ph.	1,000	380	2, 4 and 5	11.5.26
Montrose	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	667	262	6	1.4.25
Moolap	Geel.	Queenscliff	A.C., 1 ph.	(See Drysdale)		3, 4 and 5	30.1.25
Moolort	Mid.	Maryborough	A.C., 1 ph.	48	5	3, 4 and 5	14.2.38
Moorooduc	E/M.	Frankston / Mornington	A.C., 3 ph. and 1 ph.	271	92	3, 4 and 5	2.3.25
Mooroolbark	E/M.	Ringwood	A.C., 1 ph.	112	35	3, 4 and 5	16.9.36
Mooroopna	N/E.	Shepparton	A.C., 3 ph.	1,790	405	3, 4 and 5	1.10.26
Morang South	E/M.	Greensborough	A.C., 3 ph. and 1 ph.	285	55	3, 4 and 5	28.9.37
Mornington	E/M.	Mornington	A.C., 3 ph. and 1 ph.	4,094	1,057	2, 4 and 5	1.8.30
Mortlake	S/W.	Terang	A.C., 3 ph. and 1 ph.*	1,000	321	3, 4 and 5	16.5.24
Morwell	Gipps.	Morwell	A.C., 3 ph. and 1 ph.	6,320	1,192	2, 4 and 5	1.4.26
Morwell Bridge	Gipps.	Morwell	A.C., 1 ph.	680	124	3, 4 and 5	26.11.28
Mossiface	Gipps.	Lakes Entrance	A.C., 1 ph.	100	14	3, 4 and 5	1.10.30
Mountain View	Gipps.	Korumburra	A.C., 1 ph.	132	27	3, 4 and 5	14.6.40
Moyarra	Gipps.	Korumburra	A.C., 1 ph.	126	39	3, 4 and 5	26.6.30
Moyhu	N/E.	Wangaratta	A.C., 3 ph.	150	64	3, 4 and 5	18.4.50
Moyne	S/W.	Port Fairy	A.C., 1 ph.*	20	6	3, 4 and 5	24.3.46
Moyne View	S/W.	Port Fairy	A.C., 1 ph.*	30	7	3, 4 and 5	27.5.37
Mt. Dandenong	E/M.	Belgrave	A.C., 1 ph.	322	204	3, 4 and 5	20.6.33
Mt. Duneed	Geel.	Queenscliff	A.C., 1 ph.	125	28	3, 4 and 5	5.10.39
Mt. Eliza	E/M.	Frankston / Mornington	A.C., 3 ph. and 1 ph.	806	361	2, 4 and 5 / 3, 4 and 5	21.2.28
Mt. Evelyn	E/M.	Lilydale	A.C., 3 ph. and 1 ph.	1,112	404	3, 4 and 5	9.1.28
Mt. Martha	E/M.	Mornington	A.C., 3 ph. and 1 ph.	792	266	3, 4 and 5	1.8.30
Mt. Rowan	Ball.	Ballarat	A.C., 1 ph.	25	7	3, 4 and 5	27.2.47
Mt. Waverley	Metro. / E/M.	Melbourne / Dandenong	A.C., 3 ph. and 1 ph.	553	186	2, 4 and 5	1.6.28
Muckleford	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	105	11	3, 4 and 5	18.1.45
Mulgrave	E/M.	Dandenong	A.C., 1 ph.	124	56	3, 4 and 5	25.8.47
Mumblin	S/W.	Terang	A.C., 1 ph.*	20	5	3, 4 and 5	24.9.45
Murchison	N/E.	Shepparton	A.C., 3 ph.	631	227	3, 4 and 5	30.11.45
Myer's Flat	Bend.	Bendigo	A.C., 1 ph.	40	11	3, 4 and 5	29.6.40
Myrniong	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	150	69	3, 4 and 5	27.5.46
Myrtlebank	Gipps.	Sale	A.C., 1 ph.	150	64	3, 4 and 5	3.3.38
Myrtleford	N/E.	Myrtleford	A.C., 3 ph.	943	452	3, 4 and 5	1.12.40
Nalangil	S/W.	Colac	A.C., 1 ph.	54	10	3, 4 and 5	19.12.24
Nanneella	N/E.	Rochester	A.C., 1 ph.	541	203	3, 4 and 5	17.10.38
Napoleons	Ball.	Ballarat	A.C., 1 ph.	120	26	3, 4 and 5	28.6.49
Naringal	S/W.	Warrnambool	A.C., 1 ph.	25	8	3, 4 and 5	17.7.44
Narioka	N/E.	Numurkah	A.C., 3 ph. and 1 ph.	(See Barwo)		3, 4 and 5	7.10.46
Nar-Nar-Goon	Gipps.	Koo-wee-rup	A.C., 1 ph.	460	124	3, 4 and 5	23.5.34
Narracan East	Gipps.	Trafalgar	A.C., 1 ph.	60	27	3, 4 and 5	23.7.40
Narre Warren	E/M.	Dandenong	A.C., 1 ph.	326	89	3, 4 and 5	13.11.28
Narre Warren North	E/M.	Dandenong	A.C., 1 ph.	366	117	3, 4 and 5	10.11.38
Nathalia	N/E.	Numurkah	A.C., 3 ph.	1,062	303	3, 4 and 5	1.10.31
Navigators	Ball.	Ballarat	A.C., 1 ph.	105	18	3, 4 and 5	24.2.49
Nayook	Gipps.	Warragul	A.C., 3 ph. and 1 ph.	100	33	3, 4 and 5	15.1.35
Neerim	Gipps.	Warragul	A.C., 1 ph.	229	57	3, 4 and 5	15.1.35
Neerim East	Gipps.	Warragul	A.C., 1 ph.	200	74	3, 4 and 5	21.12.36
Neerim Junction	Gipps.	Warragul	A.C., 1 ph.	190	58	3, 4 and 5	3.5.35
Neerim North	Gipps.	Warragul	A.C., 1 ph.	70	31	3, 4 and 5	11.4.38
Neerim South	Gipps.	Warragul	A.C., 1 ph.	586	219	3, 4 and 5	15.1.35
Newborough	Gipps.	Trafalgar	A.C., 1 ph.	880	165	3, 4 and 5	24.6.38
Newbridge	Bend.	Inglewood	A.C., 3 ph.	200	18	3, 4 and 5	23.12.46
New Gisborne	Mid.	Sunbury	A.C., 3 ph.	277	39	3, 4 and 5	1.3.29
Newlyn	Ball.	Daylesford	A.C., 3 ph. and 1 ph.	100	75	3, 4 and 5	14.7.44

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

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population	Number of Consumers.	Tariffs as per Appendix No. 13, Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Newlyn North	Ball.	Daylesford	A.C., 1 ph.	90	33	3, 4 and 5	22.5.47
Newry	Gipps.	Maffra	A.C., 3 ph. and 1 ph.	390	107	3, 4 and 5	25.10.26
Newstead	Mid.	Castlemaine	A.C., 3 ph. and 1 ph.	350	138	3, 4 and 5	20.4.37
Newtown	Ball.	Ballarat	A.C., 1 ph.	100	23	3, 4 and 5	23.2.49
Nicholson	Gipps.	Lakes Entrance	A.C., 1 ph.	70	4	3, 4 and 5	12.12.34
Nilma	Gipps.	Warragul	A.C., 1 ph.	264	101	3, 4 and 5	23.12.27
Nilma Rural	Gipps.	Warragul	A.C., 1 ph.	280	97	3, 4 and 5	20.4.45
Noble Park	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	3,286	751	2, 4 and 5	5.12.24
Noojee	Gipps.	Warragul	A.C., 1 ph.	292	89	3, 4 and 5	15.1.35
Nooramunga	N/E.	Benalla	A.C., 1 ph.	10	2	3, 4 and 5	3.12.43
Noorat	S/W.	Terang	A.C., 3 ph. and 1 ph.*	300	124	3, 4 and 5	5.12.24
North Wonthaggi (portion only)	Gipps.	Korumburra	A.C., 1 ph.	63	7	3, 4 and 5	17.2.41
Notting Hill	E/M.	Dandenong	A.C., 1 ph.	335	66	2, 4 and 5	21.7.27
Numurkah	N/E.	Numurkah	A.C., 3 ph.	1,671	577	3, 4 and 5	1.10.31
Nyora	Gipps.	Korumburra	A.C., 1 ph.	347	77	3, 4 and 5	1.10.35
Oaklands Junction	Metro.	Melbourne	A.C., 1 ph.	94	8	3, 4 and 5	10.12.35
Ocean Grove	Geel.	Queenscliff	A.C., 1 ph.	650	302	3, 4 and 5	27.9.24
Officer	E/M.	Dandenong	A.C., 1 ph.	438	131	3, 4 and 5	12.4.28
Olinda	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	683	290	3, 4 and 5	30.9.27
Ondit	S/W.	Colac	A.C., 1 ph.*	25	11	3, 4 and 5	23.5.44
Orrvale	N/E.	Shepparton	A.C., 1 ph.	(See Shepparton East)		3, 4 and 5	20.2.36
Outtrim	Gipps.	Korumburra	A.C., 1 ph.	250	37	3, 4 and 5	13.11.39
Ovens	N/E.	Myrtleford	A.C., 3 ph.	77	65	3, 4 and 5	20.11.44
Oxley Flats	N/E.	Wangaratta	A.C., 3 ph. and 1 ph.	(See Milawa)		3, 4 and 5	25.10.44
Pakenham	E/M.	Dandenong	A.C., 1 ph.	716	268	3, 4 and 5	18.6.28
Panmure	S/W.	Terang	A.C., 1 ph.*	200	32	3, 4 and 5	3.9.37
Parwan	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	64	20	3, 4 and 5	10.1.46
Paynesville	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	400	110	3, 4 and 5	25.2.38
Penshurst	S/W.	Hamilton	A.C., 1 ph.	740	198	3, 4 and 5	16.9.38
Penshurst Rural	S/W.	Hamilton	A.C., 1 ph.	304	126	3, 4 and 5	16.9.38
Picola	N/E.	Numurkah	A.C., 3 ph.	186	32	3, 4 and 5	1.11.40
Pine Lodge	N/E.	Shepparton	A.C., 3 ph. and 1 ph.	(See Shepparton East)		3, 4 and 5	25.2.36
Pirron Yallock	S/W.	Colac	A.C., 1 ph.*	60	12	3, 4 and 5	21.12.36
Plenty	E/M.	Greensborough	A.C., 1 ph.	308	76	3, 4 and 5	28.11.45
Point Cook	Metro.	Werribee	A.C., 3 ph. and 1 ph.	32	4	3, 4 and 5	1.7.40
Point Lonsdale	Geel.	Queenscliff	A.C., 3 ph. and 1 ph.	390	262	3, 4 and 5	30.12.23
Pomborneit	S/W.	Camperdown	A.C., 1 ph.*	90	15	3, 4 and 5	1.9.26
Pomborneit North	S/W.	Camperdown	A.C., 1 ph.	60	23	3, 4 and 5	1.9.26
Poowong	Gipps.	Korumburra	A.C., 3 ph. and 1 ph.	602	146	3, 4 and 5	11.9.30
Poowong East	Gipps.	Korumburra	A.C., 1 ph.	231	53	3, 4 and 5	17.10.38
Poowong North	Gipps.	Korumburra	A.C., 1 ph.	147	12	3, 4 and 5	2.5.45
Port Albert	Gipps.	Yarram	A.C., 3 ph. and 1 ph.	230	86	3, 4 and 5	29.11.46
Portarlington	Geel.	Queenscliff	A.C., 1 ph.	1,100	294	3, 4 and 5	27.2.24
Port Fairy	S/W.	Port Fairy	A.C., 3 ph. and 1 ph.*	2,050	635	3, 4 and 5	21.12.28
Port Fairy Rural	S/W.	Port Fairy	A.C., 3 ph. and 1 ph.	860	246	3, 4 and 5	10.11.30
Port Franklin	Gipps.	Foster	A.C., 1 ph.	150	43	3, 4 and 5	23.7.38
Portsea	E/M.	Sorrento	A.C., 3 ph.	501	196	2, 4 and 5	1.10.27
Port Welshpool	Gipps.	Foster	A.C., 3 ph. and 1 ph.	200	71	3, 4 and 5	31.3.47
Powlett River (portion only)	Gipps.	Korumburra	A.C., 1 ph.	72	16	3, 4 and 5	17.1.41
Prairie	Bend.	Inglewood	A.C., 1 ph.	50	6	3, 4 and 5	13.12.48
Puckapunyal	N/E.	Seymour	A.C., 3 ph.	(See Seymour Rural)		3, 4 and 5	2.10.44
Queenscliff	Geel.	Queenscliff	A.C., 3 ph.	3,250	667	2, 4 and 5	30.12.23
Ranceby	Gipps.	Korumburra	A.C., 1 ph.	68	11	3, 4 and 5	23.6.41
Raywood	Bend.	Inglewood	A.C., 3 ph. and 1 ph.	400	60	3, 4 and 5	3.7.40
Red Bluff	N/E.	Wodonga	A.C., 1 ph.	(See Kiewa)		3, 4 and 5	14.1.47
Redesdale Junction	Mid.	Kyneton	A.C., 1 ph.	177	13	3, 4 and 5	27.3.47
Red Hill	E/M.	Mornington	A.C., 3 ph. and 1 ph.	600	144	3, 4 and 5	30.6.37
Research	E/M.	Greensborough	A.C., 1 ph.	166	64	3, 4 and 5	24.5.40
Rickett's Marsh	S/W.	Colac	A.C., 1 ph.	35	16	3, 4 and 5	28.8.44
Riddell	Mid.	Sunbury	A.C., 3 ph. and 1 ph.	525	101	3, 4 and 5	7.3.29
Ringwood	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	6,707	1,926	6	1.4.25
Rochester	N/E.	Rochester	A.C., 3 ph.	1,864	516	3, 4 and 5	1.8.35
Rockbank	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	170	40	3, 4 and 5	3.4.39
Rokeby	Gipps.	Warragul	A.C., 3 ph. and 1 ph.	108	30	3, 4 and 5	4.4.35
Romsey	Mid.	Sunbury	A.C., 3 ph. and 1 ph.	874	187	3, 4 and 5	19.3.29
Rosebrook	S/W.	Port Fairy	A.C., 1 ph.*	100	27	3, 4 and 5	30.9.36
Rosebud	E/M.	Sorrento	A.C., 3 ph. and 1 ph.	1,809	1,110	2, 4 and 5	8.12.27
Rosedale	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	500	108	3, 4 and 5	15.8.27
Rowsley	Mid.	Bacchus Marsh	A.C., 3 ph. and 1 ph.	80	14	3, 4 and 5	28.3.47
Rowville	E/M.	Dandenong	A.C., 1 ph.	77	25	3, 4 and 5	5.7.45
Rubicon	N/E.	Alexandra	A.C., 1 ph.	69	12	3, 4 and 5	4.9.27
Ruby	Gipps.	Leongatha	A.C., 1 ph.	70	54	3, 4 and 5	19.4.28
Rutherglen	N/E.	Rutherglen	A.C., 3 ph.	1,545	510	3, 4 and 5	15.10.26
Ryanston	Gipps.	Korumburra	A.C., 1 ph.	158	14	3, 4 and 5	14.1.41
Rye	E/M.	Sorrento	A.C., 3 ph.	792	329	2, 4 and 5	16.12.27

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

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 13, Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Sale	Gipps.	Sale	A.C., 3 ph.	6,000	1,443	2, 4 and 5	1.7.24
Sale Rural	Gipps.	Sale	A.C., 3 ph. and 1 ph.	420	288	3, 4 and 5	12.12.28
Sassafras	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	470	281	3, 4 and 5	9.7.27
Scarsdale	Ball.	Ballarat	A.C., 1 ph.	230	24	3, 4 and 5	5.9.39
Scoresby	E/M.	Dandenong	A.C., 1 ph.	352	49	3, 4 and 5	23.9.37
Scotsburn	Ball.	Ballarat	A.C., 1 ph.	75	39	3, 4 and 5	3.11.44
Seaford	E/M.	Frankston	A.C., 3 ph.	1,567	582	2, 4 and 5	21.2.28
Sebastian	Bend.	Inglewood	A.C., 1 ph.	100	24	3, 4 and 5	3.2.48
Selby	E/M.	Belgrave	A.C., 1 ph.	219	90	3, 4 and 5	12.12.35
Seymour	N/E.	Seymour	A.C., 3 ph.	3,071	936	2, 4 and 5	2.10.44
Seymour Rural	N/E.	Seymour	A.C., 1 ph.	140	77	3, 4 and 5	2.10.44
Shepparton	N/E.	Shepparton	A.C., 3 ph.	9,315	2,602	2, 4 and 5	1.1.25
Shepparton East	N/E.	Shepparton	A.C., 3 ph. and 1 ph.	1,292	442	3, 4 and 5	25.2.36
Shepparton Rural	N/E.	Shepparton	A.C., 3 ph. and 1 ph.	94	29	3, 4 and 5	17.8.39
Sherbrooke	E/M.	Belgrave	A.C., 1 ph.	194	52	3, 4 and 5	29.7.27
Shoreham	E/M.	Mornington	A.C., 1 ph.	68	22	3, 4 and 5	24.5.40
Silvan	E/M.	Lilydale	A.C., 3 ph. and 1 ph.	349	85	3, 4 and 5	13.6.28
Skipton	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	625	161	3, 4 and 5	27.10.39
Smeaton	Ball.	Daylesford	A.C., 3 ph. and 1 ph.	175	58	3, 4 and 5	16.4.38
Smythesdale	Ball.	Ballarat	A.C., 1 ph.	280	35	3, 4 and 5	2.9.39
Somers	E/M.	Mornington	A.C., 3 ph. and 1 ph.	352	118	3, 4 and 5	24.12.35
Somerton	Metro.	Melbourne	A.C., 3 ph.	116	18	3, 4 and 5	22.7.38
Somerville	E/M.	Frankston	A.C., 3 ph. and 1 ph.	421	119	3, 4 and 5	19.12.26
Sorrento	E/M.	Sorrento	A.C., 3 ph. and 1 ph.	922	664	2, 4 and 5	1.10.27
South Belgrave	E/M.	Belgrave	A.C., 1 ph.	429	51	3, 4 and 5	17.2.37
South Ecklin	S/W.	Terang	A.C., 1 ph.*	25	11	3, 4 and 5	24.9.45
South Gisborne	Mid.	Sunbury	A.C., 1 ph.	(See Gisborne)		3, 4 and 5	1.5.37
South Purrumbete	S/W.	Camperdown	A.C., 1 ph.	23	11	3, 4 and 5	25.5.39
Southern Cross	S/W.	Port Fairy	A.C., 1 ph.*	80	16	3, 4 and 5	31.8.38
Springbank	Ball.	Ballarat	A.C., 1 ph.	50	9	3, 4 and 5	7.2.45
Springhurst	N/E.	Rutherglen	A.C., 3 ph.	234	71	3, 4 and 5	6.9.26
Springvale	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	2,804	1,269	2, 4 and 5	5.12.24
St. Albans	Metro.	Sunshine	A.C., 3 ph. and 1 ph.	1,204	254	3, 4 and 5	14.2.30
St. James	N/E.	Yarrawonga	A.C., 3 ph.	275	50	3, 4 and 5	14.2.40
Stanhope	N/E.	Kyabram	A.C., 3 ph.	430	295	3, 4 and 5	14.6.38
Stavely	S/W.	Willaura	A.C., 1 ph.*	23	6	3, 4 and 5	8.11.40
Stonyford	S/W.	Camperdown	A.C., 1 ph.	25	10	3, 4 and 5	20.12.37
Stony Creek	Gipps.	Leongatha	A.C., 1 ph.	70	50	3, 4 and 5	14.9.36
Stratford	Gipps.	Maffra	A.C., 3 ph. and 1 ph.	1,100	238	3, 4 and 5	20.12.26
Strathallan	N/E.	Echuca	A.C., 1 ph.	40	27	3, 4 and 5	5.11.35
Strathfieldsaye	Bend.	Bendigo	A.C., 1 ph.	300	60	3, 4 and 5	13.3.45
Strathmerton	N/E.	Cobram	A.C., 1 ph.	190	51	3, 4 and 5	19.2.35
Streatham	S/W.	Willaura	A.C., 1 ph.*	155	34	3, 4 and 5	28.9.39
Strezlecki	Gipps.	Korumburra	A.C., 1 ph.	380	67	3, 4 and 5	14.4.48
Sunbury	Mid.	Sunbury	A.C., 3 ph. and 1 ph.	1,442	296	3, 4 and 5	1.5.26
Swan Marsh	S/W.	Colac	A.C., 1 ph.*	110	20	3, 4 and 5	4.6.37
Swan Reach	Gipps.	Lakes Entrance	A.C., 1 ph.	150	44	3, 4 and 5	11.7.30
Sydenham	Mid.	Sunbury	A.C., 3 ph. and 1 ph.	109	37	3, 4 and 5	14.10.38
Tabor	S/W.	Hamilton	A.C., 1 ph.*	10	4	3, 4 and 5	3.2.50
Talbot	Mid.	Maryborough	A.C., 1 ph.	456	126	3, 4 and 5	27.8.38
Tallangatta	N/E.	Wodonga	A.C., 3 ph.	877	272	3, 4 and 5	1.11.40
Tallarook	N/E.	Seymour	A.C., 3 ph.	204	41	3, 4 and 5	29.6.49
Tallygaroopna	N/E.	Shepparton	A.C., 3 ph.	245	71	3, 4 and 5	22.10.33
Tally Ho.	E/M.	Dandenong	A.C., 3 ph.	193	82	2, 4 and 5	9.3.28
Tambo Upper	Gipps.	Lakes Entrance	A.C., 1 ph.	105	26	3, 4 and 5	24.12.37
Tandarra	Bend.	Inglewood	A.C., 1 ph.	100	20	3, 4 and 5	9.11.44
Tandarook	S/W.	Camperdown	A.C., 1 ph.	50	9	3, 4 and 5	25.5.39
Tangambalanga	N/E.	Wodonga	A.C., 3 ph.	180	74	3, 4 and 5	12.4.39
Tanjil South	Gipps.	Trafalgar	A.C., 1 ph.	120	45	3, 4 and 5	27.5.37
Taradale	Mid.	Kyneton	A.C., 3 ph.	656	26	3, 4 and 5	23.6.50
Tarago	Gipps.	Warragul	A.C., 1 ph.	55	16	3, 4 and 5	23.8.38
Targoora	N/E.	Wangaratta	A.C., 1 ph.	11	3	3, 4 and 5	12.5.38
Tarnagulla	Mid.	Maryborough	A.C., 3 ph.	314	70	3, 4 and 5	24.2.50
Tarneit	Metro.	Werribee	A.C., 3 ph.	132	33	3, 4 and 5	12.12.46
Tarra Valley	Gipps.	Yarram	A.C., 1 ph.	130	20	3, 4 and 5	31.7.46
Tarrington	S/W.	Hamilton	A.C., 1 ph.	120	30	3, 4 and 5	18.11.49
Tarwin East	Gipps.	Leongatha	A.C., 1 ph.	100	11	3, 4 and 5	30.6.50
Tatura	N/E.	Shepparton	A.C., 3 ph.	1,590	467	3, 4 and 5	1.11.26
Tawonga	N/E.	Myrtleford	A.C., 3 ph.	190	163	3, 4 and 5	15.5.46
Tecoma	E/M.	Belgrave	A.C., 3 ph.	(See Belgrave)		2, 4 and 5	3.9.28
Terang	S/W.	Terang	A.C., 3 ph. and 1 ph.*	2,500	745	2, 4 and 5	4.3.24
Terang Rural	S/W.	Terang	A.C., 1 ph.	1,570	716	3, 4 and 5	9.1.36
Tesbury	S/W.	Camperdown	A.C., 1 ph.	16	5	3, 4 and 5	15.5.39
Tetoora Road	Gipps.	Warragul	A.C., 1 ph.	125	47	3, 4 and 5	27.5.41
The Basin	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	646	216	3, 4 and 5	13.9.39
Thomastown	E/M.	Greensborough	A.C., 3 ph. and 1 ph.	661	198	3, 4 and 5	1.6.28
Thornton	N/E.	Alexandra	A.C., 1 ph.	185	99	3, 4 and 5	19.7.27
Thorpdale	Gipps.	Trafalgar	A.C., 1 ph.	220	79	3, 4 and 5	23.12.37
Timboon	S/W.	Terang	A.C., 3 ph. and 1 ph.*	500	92	3, 4 and 5	27.5.49
Tinamba	Gipps.	Maffra	A.C., 1 ph.	400	218	3, 4 and 5	11.7.28
Tongala	N/E.	Echuca	A.C., 3 ph.	530	415	3, 4 and 5	12.9.26
Toolamba West	N/E.	Shepparton	A.C., 3 ph. and 1 ph.	200	110	3, 4 and 5	1.12.39
Toongabbie	Gipps.	Traralgon	A.C., 1 ph.	200	68	3, 4 and 5	11.3.29
Toora	Gipps.	Foster	A.C., 3 ph. and 1 ph.	716	216	3, 4 and 5	10.5.38

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

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 13, Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Tooradin	Gipps.	Koo-wee-rup	A.C., 1 ph.	375	77	3, 4 and 5	14.1.37
Toorloo Arm	Gipps.	Lakes Entrance	A.C., 1 ph.	103	31	3, 4 and 5	13.2.40
Top Creek	N/E.	Rochester	A.C., 1 ph.	(See Nanneella)		3, 4 and 5	25.7.46
Torquay	Geel.	Queenscliff	A.C., 3 ph. and 1 ph.	700	356	3, 4 and 5	1.9.30
Torwood	Gipps.	Warragul	A.C., 1 ph.	50	18	3, 4 and 5	22.1.40
Tourello	Ball.	Ballarat	A.C., 1 ph.	25	9	3, 4 and 5	10.8.38
Tower Hill	S/W.	Port Fairy	A.C., 1 ph.*	40	8	3, 4 and 5	30.6.35
Trafalgar	Gipps.	Trafalgar	A.C., 3 ph.	1,600	429	3, 4 and 5	16.10.23
Trafalgar East	Gipps.	Trafalgar	A.C., 1 ph.	220	74	3, 4 and 5	24.11.48
Trafalgar Rural	Gipps.	Trafalgar	A.C., 1 ph.	300	174	3, 4 and 5	3.4.28
Traralgon	Gipps.	Traralgon	A.C., 3 ph. and 1 ph.	5,800	1,701	2, 4 and 5	24.11.23
Traralgon Rural	Gipps.	Traralgon	A.C., 1 ph.	130	19	3, 4 and 5	27.11.28
Traralgon South	Gipps.	Traralgon	A.C., 1 ph.	175	34	3, 4 and 5	12.8.37
Trawool	N/E.	Seymour	A.C., 1 ph.	(See Seymour Rural)		3, 4 and 5	5.4.45
Tremont	E/M.	Belgrave	A.C., 1 ph.	515	145	3, 4 and 5	2.9.27
Trentham	Mid.	Kyneton	A.C., 3 ph.	980	219	3, 4 and 5	8.5.39
Triholm	Gipps.	Korumburra	A.C., 1 ph.	43	3	3, 4 and 5	17.10.38
Tullamarine	Metro.	Melbourne	A.C., 3 ph.	244	58	3, 4 and 5	18.3.39
Tungamah	N/E.	Yarrawonga	A.C., 3 ph.	335	89	3, 4 and 5	14.2.40
Tyabb	E/M.	Frankston	A.C., 3 ph.	286	58	3, 4 and 5	20.1.28
Tyers	Gipps.	Traralgon / Morwell	A.C., 3 ph. and 1 ph.	305	91	3, 4 and 5	15.10.23
Tylden	Mid.	Kyneton	A.C., 1 ph.	272	39	3, 4 and 5	6.7.39
Tynong	Gipps.	Koo-wee-rup	A.C., 1 ph.	300	105	3, 4 and 5	14.1.29
Upper Beaconsfield	E/M.	Dandenong	A.C., 1 ph.	177	88	3, 4 and 5	1.8.34
Upper Ferntree Gully	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	1,011	408	2, 4 and 5	24.8.25
Upper Maffra West	Gipps.	Maffra	A.C., 1 ph.	250	51	3, 4 and 5	6.10.37
Upwey	E/M.	Belgrave	A.C., 3 ph. and 1 ph.	1,554	790	2, 4 and 5	24.8.25
Valencia Creek	Gipps.	Maffra	A.C., 1 ph.	100	23	3, 4 and 5	11.6.38
Vervale	Gipps.	Koo-wee-rup	A.C., 1 ph.	160	43	3, 4 and 5	10.7.42
Violet Town	N/E.	Benalla	A.C., 3 ph.	700	161	3, 4 and 5	1.3.36
Waaia	N/E.	Numurkah	A.C., 3 ph.	54	18	3, 4 and 5	5.11.40
Wahgunyah	N/E.	Rutherglen	A.C., 3 ph.	580	128	3, 4 and 5	1.2.26
Wallace	Ball.	Ballarat	A.C., 3 ph.	100	35	3, 4 and 5	17.5.40
Wallington	Geel.	Queenscliff	A.C., 1 ph.	110	36	3, 4 and 5	1.9.47
Walpa	Gipps.	Bairnsdale	A.C., 1 ph.	50	30	3, 4 and 5	16.5.35
Wangaratta	N/E.	Wangaratta	A.C., 3 ph.	6,500	2,262	2, 4 and 5	12.3.27
Wangaratta North	N/E.	Wangaratta	A.C., 3 ph.	34	21	3, 4 and 5	20.5.36
Wangaratta South	N/E.	Wangaratta	A.C., 3 ph.	(See Wangaratta)		2, 4 and 5	3.5.38
Wangoom	S/W.	Warrnambool	A.C., 1 ph.*	30	6	3, 4 and 5	9.5.39
Wannon	S/W.	Hamilton	A.C., 1 ph.*	44	9	3, 4 and 5	3.12.48
Wantirna	E/M.	Ringwood	A.C., 3 ph. and 1 ph.	645	177	3, 4 and 5	1.2.28
Wantirna South	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	62	23	3, 4 and 5	18.2.47
Warburton	E/M.	Warburton	A.C., 3 ph.	1,654	466	3, 4 and 5	1.7.44
Warncourt	S/W.	Colac	A.C., 1 ph.	35	8	3, 4 and 5	19.12.25
Warragul	Gipps.	Warragul	A.C., 3 ph. and 1 ph.	4,342	1,213	2, 4 and 5	1.12.30
Warragul Rural	Gipps.	Warragul	A.C., 1 ph.	530	224	3, 4 and 5	19.6.28
Warrandyte	E/M.	Ringwood	A.C., 1 ph.	899	379	3, 4 and 5	21.12.35
Warrenheip	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	150	53	3, 4 and 5	10.6.48
Warrion	S/W.	Colac	A.C., 1 ph.	88	23	3, 4 and 5	18.8.24
Warrnambool	S/W.	Warrnambool	A.C., 3 ph. and 1 ph.	10,000	3,000	2, 4 and 5	30.12.23
Warrnambool Rural	S/W.	Warrnambool	A.C., 3 ph. and 1 ph.	2,000	495	3, 4 and 5	9.1.36
Warrong	S/W.	Port Fairy	A.C., 1 ph.	20	3	3, 4 and 5	20.4.40
Watsonia	E/M.	Greensborough	A.C., 3 ph.	215	81	3, 4 and 5	24.3.26
Waubra	Ball.	Ballarat	A.C., 1 ph.	200	31	3, 4 and 5	18.12.40
Waurn Ponds	Geel.	Geelong	A.C., 1 ph.	100	22	3, 4 and 5	26.11.45
Weerangourt	S/W.	Port Fairy	A.C., 1 ph.	20	2	3, 4 and 5	29.9.45
Weerite	S/W.	Camperdown	A.C., 3 ph. and 1 ph *	22	10	3, 4 and 5	8.6.28
Wellsford	Bend.	Bendigo	A.C., 3 ph. and 1 ph.	20	2	3, 4 and 5	25.1.43
Welshpool	Gipps.	Foster	A.C., 3 ph. and 1 ph.	330	101	3, 4 and 5	13.8.38
Werribee	Metro.	Werribee	A.C., 3 ph. and 1 ph.	3,928	1,019	2, 4 and 5	10.4.24
Werribee South	Metro.	Werribee	A.C., 3 ph. and 1 ph.	970	224	3, 4 and 5	24.11.36
Wesburn	E/M.	Warburton	A.C., 3 ph. and 1 ph.	350	56	3, 4 and 5	15.8.49
Westbury	Gipps.	Trafalgar	A.C., 1 ph.	35	16	3, 4 and 5	27.5.37
Westmere	S/W.	Willaura	A.C., 1 ph.	75	23	3, 4 and 5	30.9.38
Wheeler's Hill	E/M.	Dandenong	A.C., 1 ph.	287	76	2, 4 and 5	1.2.26
Whittlesea	E/M.	Greensborough	A.C., 1 ph.	521	154	3, 4 and 5	28.9.37
Whorouly	N/E.	Myrtleford	A.C., 3 ph.	330	154	3, 4 and 5	2.6.42
Whorouly East	N/E.	Myrtleford	A.C., 1 ph.	(See Whorouly)		3, 4 and 5	17.4.45
Whorouly South	N/E.	Myrtleford	A.C., 1 ph.	(See Whorouly)		3, 4 and 5	24.7.45
Willatook	S/W.	Port Fairy	A.C., 1 ph.*	40	13	3, 4 and 5	23.5.40
Willaura	S/W.	Willaura	A.C., 1 ph.	450	144	3, 4 and 5	23.9.38
Willaura Rural	S/W.	Willaura	A.C., 1 ph.	1,200	270	3, 4 and 5	23.9.38
Willowgrove	Gipps.	Trafalgar	A.C., 1 ph.	80	38	3, 4 and 5	22.5.39
Winchelsea	S/W.	Colac	A.C., 3 ph. and 1 ph.*	775	183	3, 4 and 5	30.6.24
Windermere	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	175	58	3, 4 and 5	21.10.47
Winslow	S/W.	Warrnambool	A.C., 1 ph.*	110	13	3, 4 and 5	29.10.47
Wiseleigh	Gipps.	Lakes Entrance	A.C., 1 ph.	110	19	3, 4 and 5	24.10.30
Wodonga	N/E.	Wodonga	A.C., 3 ph.	3,600	891	2, 4 and 5	1.11.33
Wodonga Rural	N/E.	Wodonga	A.C., 3 ph. and 1 ph.	44	8	3, 4 and 5	8.8.38
Wollert	E/M.	Greensborough	A.C., 1 ph.	147	48	3, 4 and 5	2.5.47

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

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Appendix No. 13, Columns No.	Date Supply First Undertaken by Commission.
Country—*continued.*							
Wonga Park	E/M.	Ringwood	A.C., 1 ph.	97	11	3, 4 and 5	18.5.38
Woodend	Mid.	Woodend	A.C., 3 ph. and 1 ph.	1,492	403	3, 4 and 5	1.8.29
Woodford	S/W.	Warrnambool	A.C., 1 ph.*	80	15	3, 4 and 5	8.12.49
Woodglen	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	50	26	3, 4 and 5	16.4.40
Woodvale	Bend.	Bendigo	A.C., 1 ph.	50	4	3, 4 and 5	2.6.41
Wool Wool	S/W.	Colac	A.C., 3 ph. and 1 ph.*	37	10	3, 4 and 5	15.10.24
Woorndoo	S/W.	Willaura	A.C., 1 ph.*	40	11	3, 4 and 5	8.12.38
Wunghnu	N/E.	Numurkah	A.C., 3 ph.	220	54	3, 4 and 5	1.10.33
Wurruk Wurruk	Gipps.	Sale	A.C., 1 ph.	100	30	3, 4 and 5	27.8.47
Wy Yung	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	50	11	3, 4 and 5	28.9.28
Yackandandah	N/E.	Wodonga	A.C., 3 ph.	385	153	3, 4 and 5	20.12.39
Yallock	Gipps.	Koo-wee-rup	A.C., 1 ph.	120	35	3, 4 and 5	25.11.37
Yallook	Bend.	Inglewood	A.C., 1 ph.	80	18	3, 4 and 5	29.9.47
Yangery	S/W.	Port Fairy	A.C., 1 ph.*	30	4	3, 4 and 5	22.6.38
Yannathan	Gipps.	Koo-wee-rup	A.C., 1 ph.	285	115	3, 4 and 5	8.2.36
Yan Yean	E/M.	Greensborough	A.C., 1 ph.	153	45	3, 4 and 5	28.9.37
Yarraberb	Bend.	Inglewood	A.C., 1 ph.	50	4	3, 4 and 5	9.7.44
Yarra Glen	E/M.	Lilydale	A.C., 1 ph.	371	89	3, 4 and 5	15.3.34
Yarragon	Gipps.	Trafalgar	A.C., 3 ph. and 1 ph.	800	296	3, 4 and 5	1.11.23
Yarra Junction	E/M.	Warburton	A.C., 3 ph. and 1 ph.	635	153	3, 4 and 5	1.3.49
Yarram	Gipps.	Yarram	A.C., 3 ph. and 1 ph.	1,700	544	3, 4 and 5	31.7.46
Yarrambat	E/M.	Greensborough	A.C., 1 ph.	38	13	3, 4 and 5	28.11.45
Yarrawonga	N/E.	Yarrawonga	A.C., 3 ph.	3,000	766	2, 4 and 5	1.8.25
Yarroweyah	N/E.	Cobram	A.C., 1 ph.	56	15	3, 4 and 5	10.12.48
Yea	N/E.	Alexandra	A.C., 3 ph.	995	381	3, 4 and 5	1.5.45
Yering	E/M.	Lilydale	A.C., 1 ph.	63	21	3, 4 and 5	24.2.34
Yeringberg	E/M.	Healesville	A.C., 1 ph.	63	20	3, 4 and 5	7.7.33
Yinnar	Gipps.	Morwell	A.C., 3 ph. and 1 ph.	400	173	3, 4 and 5	28.11.27
Yuroke	Metro.	Melbourne	A.C., 3 ph.	54	13	3, 4 and 5	13.6.39

* = 230 V. only.

Note.—System of Supply.—A.C., Single-phase—Metropolitan Branch Municipalities, 200–400 volts.
Other areas, 230-460 volts.

A.C. Three-phase, 230–400 volts.

D.C. Three-wire, 230–460 volts.

D.C., Two-wire, 230 volts.

LIST OF BRANCH OFFICES.

Branch Title.	Abbreviation.	Location of Branch Headquarters.	Telephone.
Metropolitan	Metro.	238–242 Flinders Street, Melbourne	MU 9021 JM 1525 Cent. 10310
Ballarat	Ball.	1–7 Wendouree Parade, Ballarat	1825
Bendigo	Bend.	Cr. Hargreaves and Williamson Streets, Bendigo	1700
Geelong	Geel.	Corio Terrace, Geelong	5941
Eastern Metropolitan	E/M.	197 Lonsdale Street, Dandenong	182 64 168 192
Gippsland	Gipps.	108–116 Franklin Street, Traralgon	491 492 493
Midland	Mid.	40 Lyttleton Street, Castlemaine	238 196
North-Eastern	N/E.	80 Bridge Street, Benalla	567
South-Western	S/W.	119–121 Murray Street, Colac	661

LIST OF DISTRICT OFFICES.

District Office.	Address.	Telephone.	District Office.	Address.	Telephone.
Alexandra	Grant Street, Alexandra	88	Mornington	64 Main Street, Mornington	247
	High Street, Yea	105	Morwell	Cr. Princes Highway and Collins Street, Morwell	101
Bacchus Marsh	Main Street, Bacchus Marsh	236			
Bairnsdale	159 Main Street, Bairnsdale	333	Myrtleford	Myrtle Street, Myrtleford	60
Beechworth	Camp Street, Beechworth	132	Numurkah	Melville Street, Numurkah	36
Belgrave	Main Road, Belgrave	127		Blake Street, Nathalia	54
Benalla	26A Carrier Street, Benalla	567	Port Fairy	Sackville Street, Port Fairy	123
	Cowslip Street, Violet Town	47	Queenscliff	Hesse Street, Queenscliff	92
Camperdown	Manifold Street, Camperdown	94	Ringwood	187 Whitehorse Road, Ringwood	WU 6095
Castlemaine	40 Lyttleton Street, Castlemaine	196 and 238			
Chelsea	420 Nepean Highway, Chelsea	45	Rochester	Gillies Street, Rochester	129
Cobram	William Street, Cobram	45	Rutherglen	Main Street, Rutherglen	98
Colac	119–121 Murray Street, Colac	661		Conness Street, Chiltern	31
Dandenong	197 Lonsdale Street, Dandenong	182, 192, 168 and 64	Sale	78 Raymond Street, Sale	89
			Seymour	Station Street, Seymour	80
Daylesford	Vincent Street, Daylesford	257	Shepparton	Maude Street, Shepparton	49 and 747
Echuca	196 Hare Street, Echuca	321	Sorrento	Ocean Amphitheatre Road, Sorrento	45
Euroa	Binney Street, Euroa	162			
Foster	Main Street, Foster	50		Nepean Highway, Dromana	Rosebud 271
Frankston	Cr. Wells Street and Nepean Highway, Frankston	109	Sunbury	Evans Street, Sunbury	14
			Sunshine	241 Hampshire Road, Sunshine	MW 9648
Greensborough	Main Street, Greensborough	JL 7063	Terang	High Street, Terang	47
Hamilton	McLuckies Lane, Hamilton	734	Trafalgar	Main Street, Trafalgar	50
Healesville	Nicholson Street, Healesville	165	Traralgon	108–116 Franklin Street, Traralgon	490
Inglewood	Brooke Street, Inglewood	105			
Koo-wee-rup	Station Street, Koo-wee-rup	41	Wangaratta	110 Murphy Street, Wangaratta	262
Korumburra	Commercial Street, Korumburra	29	Warburton	Main Street, Warburton	93
Kyabram	Allan Street, Kyabram	221	Warragul	Victoria Street, Warragul	151
Kyneton	35 High Street, Kyneton	151	Warrnambool	138 Koroit Street, Warrnambool	75
Lakes Entrance	Main Street, Lakes Entrance	76	Willaura	Cr. Main and Station Streets, Willaura	143
Leongatha	44 Bair Street, Leongatha	176			
Lilydale	Main Street, Lilydale	38	Werribee	Watton Street, Werribee	5
Lorne	Cr. Mountjoy Parade and William Street, Lorne	29	Wodonga	High Street, Wodonga	63
				Towong Street, Tallangatta	91
Maffra	Johnston Street, Maffra	27	Woodend	High Street, Woodend	74
Mansfield	High Street, Mansfield	40	Yarram	Commercial Road, Yarram	223
Maryborough	112–114 High Street, Maryborough	207	Yarrawonga	Belmore Street, Yarrawonga	85

ELECTRICITY SUPPLY UNDERTAKINGS (MUNICIPAL AND PRIVATE.)

Municipality or Centre.	Supply Authority.	System of Supply.	Population.	Number of Consumers.	Tariffs.	
METROPOLITAN.						
Supplied in Bulk by State Electricity Commission.						
City of Melbourne (excl. Flemington)	Melbourne City Council ..	D.C., 230–460 v. / A.C., 3 ph., 230–400 v.	72,400	28,959	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, and City of Nunawading	Box Hill City Council ..	A.C., 3 ph., 230–400 v.	32,600	10,670		
Brunswick ..	Brunswick City Council ..	A.C., 3 ph., 230–400 v.	60,000	15,390		
Coburg ..	Coburg City Council ..	A.C., 3 ph., 230–400 v.	54,894	14,239		
Footscray and part of Braybrook Shire	Footscray City Council ..	A.C., 3 ph., 230–400 v.	61,000	16,789		
Heidelberg (excl. Greensborough)	Heidelberg City Council ..	A.C., 3 ph., 230–400 v.	38,296	10,168		
Northcote ..	Northcote City Council ..	A.C., 3 ph., 230–400 v.	44,336	12,384		
Port Melbourne..	Port Melbourne City Council..	A.C., 3 ph., 230–400 v.	14,250	3,706		
Preston ..	Preston City Council ..	A.C., 3 ph., 230–400 v.	48,500	12,693		
Williamstown ..	Williamstown City Council ..	A.C., 3 ph., 230–400 v.	26,907	7,524		
			453,183	132,522		
					Lighting.	Power.
COUNTRY.						
Apollo Bay ..	H. A. Block	D.C., 230 v. ..	700	223	Is. 3d. to Is. Optional Tariff—Is. 5d. per room per month, plus 6d. per kWh.	6d. to 3d.
Ararat	Ararat Town Council ..	A.C., 3 ph., 230–400 v.	6,200	1,500	9d. to 1¼d. Optional domestic tariff—2 kWh. per room per month at 9d. per kWh. Next 30 kWh. 2½d. All further kWh. 1¼d.	3½d. to 1¼d.
Beaufort ..	Ripon Shire Council	A.C., 3 ph., 230–400 v.	1,249	345	10d.	4d.
Beulah ..	Karkarooc Shire Council ..	D.C., 230–460 v. ..	440	161	Is. 5d.	5d.
Birchip	Birchip Electric Supply Co. Ltd.	D.C., 230 v. ..	600	240	Is. 2d.	7d. to 5d.
Boort	Boort Co-operative Butter & Ice Co. Ltd.	D.C., 230 v. ..	600	220	Is. 3d. to 9d.	6d. to 4d.
Casterton ..	Casterton Electric Supply Co. Pty. Ltd.	D.C., 230 v. ..	2,200	573	9d. to 7d.	4d. to 2d.
Charlton ..	Charlton Electric Light & Power Co. Ltd.	D.C., 230 v. ..	1,300	428	Is. to 9d.	6d. to 4d.
Cohuna	Gunbower Co-operative Butter Factory & Trading Co. Ltd.	A.C., 3 ph., 230-400 v.	1,050	376	Is. to 9d.	6d. to 2d.
Corryong ..	Upper Murray Shire Council ..	A.C., 3 ph., 230–400 v.	700	209	Is. 3d.	6d. to 3d.
Cowes	Phillip Island Shire Council ..	A.C., 3 ph., 230–400 v.	500	217	Is. 1d. to Is. ‡	7d. to 4d.
Dimboola ..	Dimboola Shire Council ..	D.C., 230–460 v. ..	1,800	533	Is. to 8d.	6d. to 3d.
Donald	Donald Shire Council	D.C., 230 v. ..	1,500	447	Is. to 10d.	6d. to 2¾d.
*Doncaster ..	Doncaster Shire Council ..	A.C., 1 ph., 200–400 v.	2,600	791	Dom. 7d. Ind. 7d. Optional Tariff—Is. 6d. per room per month, plus 1½d. per kWh.	Dom. 4d. Ind. 4d. to 1d.
Edenhope ..	Edenhope E.S. Co. Pty. Ltd. ..	D.C., 230 v. ..	600	80	Is. 3d. ..	9d.
Goroke	Goroke Freezing & Trading Co. Pty. Ltd.	D.C., 230 v. ..	350	84	Is. 4d. ..	6d.
Gunbower ..	Gunbower Co-operative Butter Factory and Trading Co. Ltd.	D.C., 230 v. ..	260	58	Is. 3d. to 9d...	6d. to 3d.
Heathcote ..	McIvor Shire Council	D.C., 230–460 v. ..	1,400	293	Is. 6d. ..	9d. to 7d.
Heywood ..	S.F. Block	A.C., 3 ph., 230–400 v.	1,200	260	Is. 3d. to Is. ..	7d. to 6d.
Hopetoun ..	Karkarooc Shire Council ..	D.C., 230 v. ..	800	240	10d. to 9d. ..	4d.
Horsham.. ..	Horsham City Council ..	D.C., 230–460 v. / A.C., 3 ph., 230–400 v.	6,500	1,962	9d. ..	Dom. 4d. to 2d. Ind. 9d. to 1½d.
Jeparit	S.F. Block (trading as "Jeparit Electric Light and Power Station").	D.C., 230 v. ..	825	253	Is. to 9d. ..	6d. to 3d.
Kaniva	Kaniva Shire Council	A.C., 3 ph., 230–400 v.	1,240	282	Is. 2d. ..	6d. to 4d.
Kerang (including Koondrook)	Kerang Shire Council	A.C., 3 ph., 230–400 v.	3,000	835	9d. to 2d. ..	5d. to 1½d.
Kilmore	Kilmore Shire Council.. ..	D.C., 230 v. ..	1,200	260	10d. to 6d. ..	4d.
Manangatang ..	J. Andrews	D.C., 230 v. ..	400	81	Is. 4d. ..	9d. to 3d.
Mildura (including Cardross, Red Cliffs, Merbein and Irymple).	Mildura City Council	A.C., 3 ph. 230–400 v.	17,500	5,000	City and District. 7½d. to 6½d. .. District Area Optional Tariff—Is. 3d. per room per month, plus 1¾d. per kWh.	Dom. 1¾d. to 1½d. Ind. 2¼d. to 1¼d.
Minyip	Dunmunkle Shire Council ..	D.C., 230 v. ..	700	202	Is. ..	8d. to 2d.
Mitiamo	C.W. Sims, Jnr.	D.C., 230 v. ..	150	27	Is. 3d. to 6d... Optional Tariff—4s. per month, plus Is. per kWh. for first 12 kWh. and 6d. per kWh. for all over 12 kWh.	Is. to 3d.

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

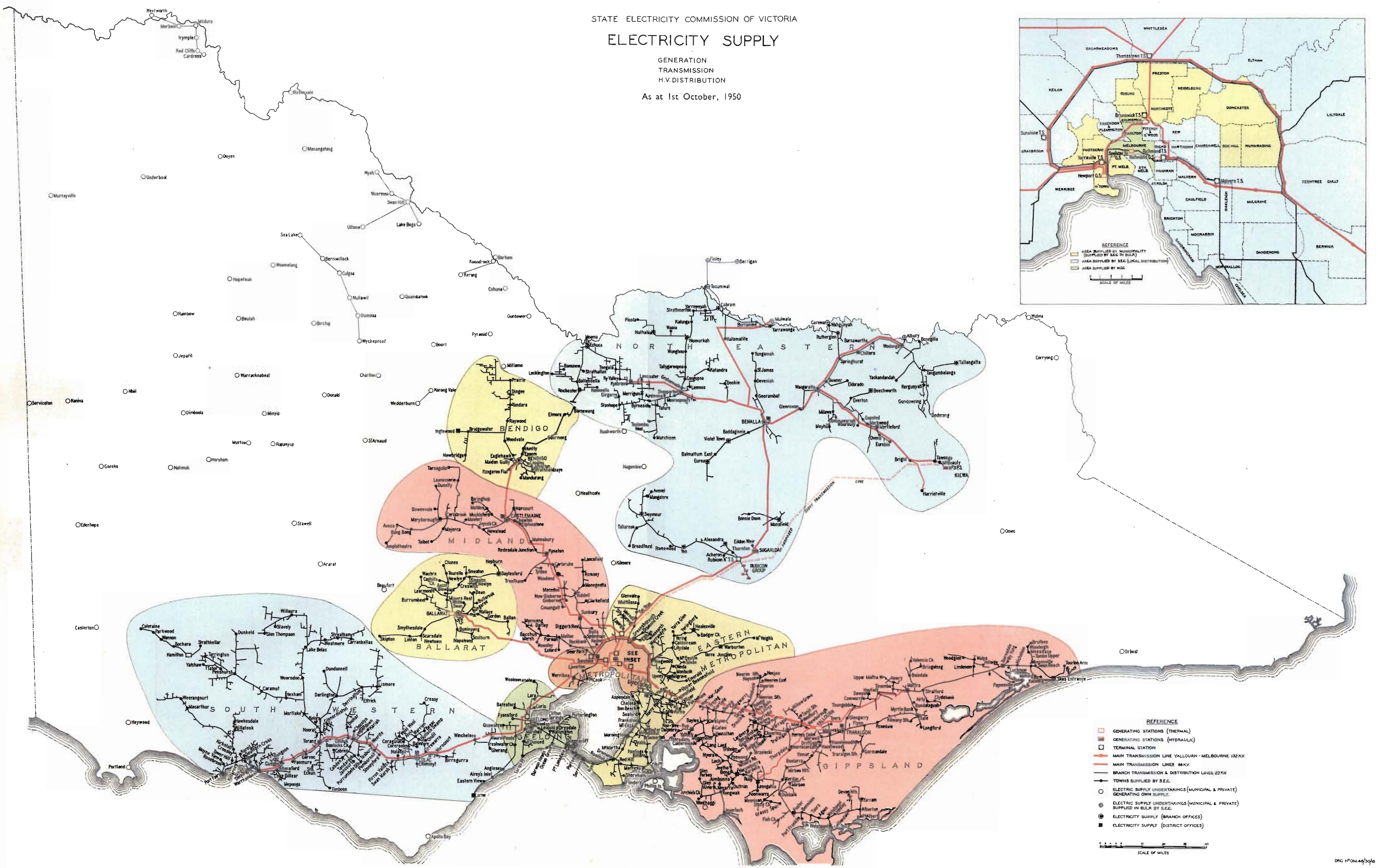
Municipality or Centre.	Supply Authority.	System of Supply.	Population.	Number of Consumers.	Tariffs.	
					Lighting.	Power.
COUNTRY—*cont.*						
Murrayville ..	Walpeup Shire Council ..	A.C., 3 ph., 230–400 v.	400	91	1s. 3d. ..	6d. to 3½d.
Murtoa	Dunmunkle Shire Council ..	D.C., 230 v. ..	1,148	347	9d. ..	4d. to 2d.
Nagambie ..	Goulburn Shire Council ..	D.C., 230–460 v. ..	900	241	10d. ..	6d.
Natimuk ..	H.C. Woolmer	A.C., 3 ph., 230–400 v.	500	124	1s. 3d. to 1s. ..	7d. to 5d.
Nhill	Lowan Shire Council	D.C., 230–460 v. ..	1,950	588	9d. ..	5d. to 3½d.
Omeo	Omeo Electric Supply and Motor Co. Pty. Ltd.	A.C., 3 ph., 230–400 v.	250	95	1s. 6d. ..	6d.
Orbost	Orbost Butter Produce Co. Ltd.	D.C., 230 v. ..	2,000	517	11d. to 10d. ..	6d. to 4d.
Ouyen	Walpeup Shire Council ..	D.C., 230–460 v. ..	1,100	310	1s. 1d. ..	4d.
Portland ..	Portland Town Council ..	A.C., 3 ph., 230–400 v.	3,750	1,156	10d. to 6d. ..	5d. to 3d.
Pyramid ..	Gordon Shire Council ..	A.C., 3 ph., 230–400 v.	500	142	1s. 3d. to 6d. ..	6d. to 3d.
Quambatook ..	Kerang Shire Council	D.C., 230 v. ..	500	131	1s. to 9d. ..	6d. to 4d.
Rainbow ..	Frank Dawson Pty. Ltd. ..	D.C., 230 v. ..	1,000	222	1s. to 8d. ..	6d.
Robinvale ..	Swan Hill Shire Council ..	A.C., 3 ph., 230–400 v.	..	..	1s. 6d. ..	9d.
					Optional Tariff—1s. 6d. per room per month, plus 6d. per kWh.	
Rupanyup ..	Dunmunkle Shire Council ..	D.C., 230 v. ..	700	173	1s. 1d. ..	8d. to 2d.
Rushworth ..	Waranga Shire Council ..	D.C., 230 v. ..	1,200	332	1s. ..	5d. to 2½d.
Serviceton ..	C. C. Wallis	D.C., 230 v. ..	175	37	1s. ..	6d.
Stawell	Stawell Borough Council ..	A.C., 3 ph., 230–400 v.	4,900	1,501	9d. ..	4d. to 2d.
St. Arnaud ..	St. Arnaud Town Council ..	A.C., 3 ph., 230–400 v.	3,000	862	11d. to 6d. ..	5d. to 2½d.
					Optional Tariff—1s. 4d. per room per month, plus 3½d. per kWh.	
Swan Hill .. (Borough)	Swan Hill Borough Council ..	A.C., 3 ph., 230–400 v.	5,000	1,251	8d. to 3d. ..	5d. to 1¾d.
† Swan Hill .. (Rural Supply)	Swan Hill Shire Council ..	A.C., 3 ph., 230–400 v.	11,000	1,121	1s. 3d. to 6d.	5d. to 3½d.
					Optional Tariff—1s. 4d. per room per month, plus 3½d. per kWh.	
Underbool ..	A. J. Gloster	D.C., 230 v. ..	200	50	1s. 6d. ..	9d. to 7d.
Walwa	Mrs. B. R. McCausland ..	D.C., 230 v. ..	250	40	1s. 6d. ..	9d.
Warracknabeal ..	Warracknabeal E.L. Co. Ltd. ..	A.C., 3 ph., 230–400 v.	2,800	815	10d. to 9d. ..	6d. to 3d.
Wedderburn .. (Incl. Korong Vale)	Korong Shire Council	A.C., 3 ph., 230–400 v.	1,450	332	1s. ..	5½d. to 2d.
Wonthaggi ..	State Coal Mine	A.C., 3 ph., 240–415 v.	5,230	1,590	7d. ..	3d. to 1½d.
Woomelang ..	E. H. & L. J. Bailey	D.C., 230 v. ..	410	58	1s. 3d. ..	7d.
Wycheproof (Incl. Sea Lake and Intermediate Towns)	Wycheproof Shire Council ..	A.C., 3 ph., 230–400 v.	2,500	636	11d. to 9d. ..	5d. to 3¼d.

* Supplied in bulk by State Electricity Commission. ‡ Special per capita tariff for Guest Houses

† Supplied in bulk by Swan Hill Borough Council.

NEW SOUTH WALES UNDERTAKINGS (BULK SUPPLIES.)

Municipalities of Albury, Berrigan, Coreen, Corowa, and Moama purchased from the State Electricity Commission of Victoria 25,182,554 kWh during the year.



STATE ELECTRICITY COMMISSION OF VICTORIA
ELECTRICITY SUPPLY
GENERATION
TRANSMISSION
H.V. DISTRIBUTION
As at 1st October, 1950
NORTH EASTERN
BENDIGO
MIDLAND
BALLARAT
SOUTH WESTERN
GEELONG
METROPOLITAN
EASTERN METROPOLITAN
GIPPSLAND
SEE INSET
PROPOSED KIEWA TRANSMISSION LINE
REFERENCE
GENERATING STATIONS (THERMAL)
GENERATING STATIONS (HYDRAULIC)
TERMINAL STATION
MAIN TRANSMISSION LINE YALLOURN - MELBOURNE 132 K.V.
MAIN TRANSMISSION LINES 66 K.V.
BRANCH TRANSMISSION & DISTRIBUTION LINES 22 K.V.
TOWNS SUPPLIED BY S.E.C.
ELECTRIC SUPPLY UNDERTAKINGS (MUNICIPAL & PRIVATE) GENERATING OWN SUPPLY.
ELECTRIC SUPPLY UNDERTAKINGS (MUNICIPAL & PRIVATE) SUPPLIED IN BULK BY S.E.C.
ELECTRICITY SUPPLY (BRANCH OFFICES)
ELECTRICITY SUPPLY (DISTRICT OFFICES)
SCALE OF MILES
DRG Nº OM.48/30/16
REFERENCE
AREA SUPPLIED BY MUNICIPALITY (SUPPLIED BY S.E.C. IN BULK)
AREA SUPPLIED BY S.E.C. (LOCAL DISTRIBUTION)
AREA SUPPLIED BY M.C.C.
SCALE OF MILES

SUPPLEMENT TO THIRTY-FIRST ANNUAL REPORT

Report to all consumers of electricity in Victoria receiving supply from the State System.

(Issued June, 1950.)

Electricity for Victoria — Present position and future prospects.

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YOU
AND YOUR ELECTRICITY SUPPLY

A report to consumers by the State Electricity Commission of Victoria

Thank you!

It is a matter of much regret to your Electricity Commission that it is unable at present to supply at all times all the electricity that you, and the half million other consumers, may want to use. The purpose of this report is to tell you why restrictions still are necessary in both summer and winter, and what is being done to eliminate as quickly as possible the irksome need for them. While the electricity shortage is a serious problem, it is a temporary one, and the Commission believes that, with the knowledge of the facts given in this report you will be all the more ready to continue the splendid co-operation which consumers generally have so far extended, and for which the Commission is most grateful.

R. A. HUNT—CHAIRMAN.
STATE ELECTRICITY COMMISSION OF VICTORIA.

Remember

TO PROSPECTIVE BUYERS OF LARGE ELECTRIC APPLIANCES

If you are planning to install an electric cooking range, a wash boiler, or any other appliance with a heavy consumption of electricity, you should first verify that its use in your premises is practicable at present. In some areas the local transformers for distributing electricity are now overloaded, and consequently the connection of any additional appliance that would draw heavily from the supply mains must remain temporarily in abeyance until larger transformers can be obtained and installed in the local distribution sub-station. You should make the inquiry about your local position to either the Commission or your Municipal Electricity Supply Authority, whichever serves your premises.

ISSUED JUNE, 1950
STATE ELECTRICITY COMMISSION OF VICTORIA
HEAD OFFICE: 22 WILLIAM STREET, MELBOURNE

YOU
AND YOUR ELECTRICITY SUPPLY

A report to consumers by the State Electricity Commission of Victoria

MORE POWER FOR VICTORIA

Present and Future ELECTRICITY PROSPECTS

The influence of electricity in our daily living seems to have no limits. Especially since the war ended has this been demonstrated; in homes, in commerce and industry the use of electricity has increased by leaps and bounds.

In normal times, electricity supply authorities would have welcomed this, and they would have been ready in advance to meet the mounting demand. But having made a vital contribution to winning the war, supply authorities nearly everywhere were left temporarily short of generating capacity soon after the war ended. In Victoria, a further complication has been the severe general shortage of fuel.

So here, as in practically all other countries, it is necessary to regulate the phenomenal post-war increase by restrictions on certain uses of electricity until sufficient new generating plant and other equipment can be obtained and installed, first to catch up with the demand and then to overtake it.

To hasten the day when once again everyone will be able to use electricity freely and without fear of restrictions, your Electricity Commission is spending about £20,000,000 every year and has over 5,000 men engaged on building many new projects to provide more power and fuel for Victoria.

The plan is to double the present output of electricity within five years, and to solve the problem of fuel for power stations, besides making a substantial contribution to the fuel needs of Victorian industry. The progress of these urgent developments in widely scattered parts of the State makes a most impressive picture.

Vast works at the Kiewa hydro-electric project are under construction to harness the snow-fed waters of the north-eastern Alps. In the Latrobe Valley of Gippsland, the earth is being stripped from the Morwell brown coalfield where two new briquette factories will soon begin to rise.

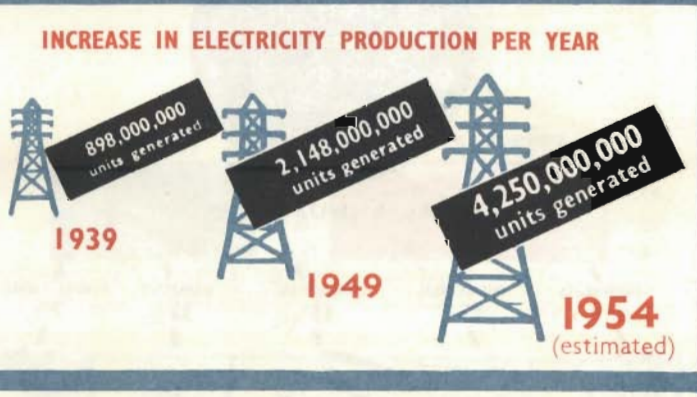
The great Yallourn power station is to be doubled, and later trebled, in size; new diesel power stations are being built at Warrnambool and Shepparton; and large-scale extensions are in progress at three stations in Melbourne.

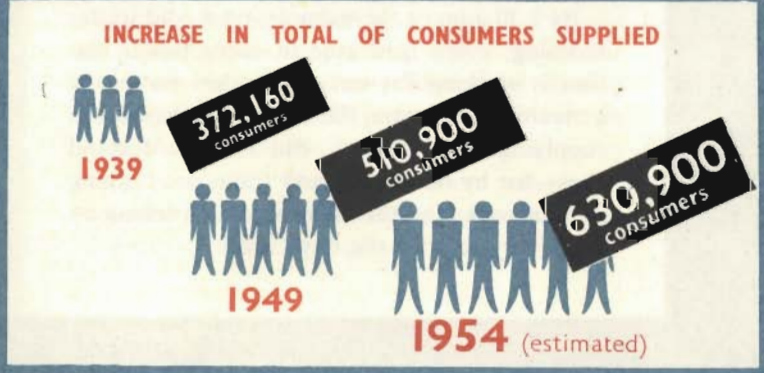
To carry out these developments in the shortest possible time, equipment costing many millions of pounds is being obtained from all over the world. Materials in short supply in Australia, particularly steel, and houses for construction workers have also been ordered from abroad. Hundreds of skilled tradesmen, too, are being engaged overseas.

The pace of this immense programme is quickening; soon construction work will be at its peak and the end of the power shortage should then be in sight. The Commission is using every means, regardless of money cost, to win free of the need for restrictions within the next two or three years.

But in the meantime it will be imperative to keep a close rein on electricity use. Bear in mind that the necessary restrictions are not haphazardly applied; they are carefully planned to ensure that electricity will be available where and when its use is most essential, while causing the least possible inconvenience to everyone. To achieve this, your co-operation is needed, and is earnestly sought.

How electricity use has grown and how supply will be increased . .





Where your electricity comes from

Electricity supplied by the Commission comes from a number of steam and hydro power stations. All are interconnected by transmission lines so that power from any one station can be switched to any part of the area supplied, which is now two-thirds of Victoria and includes over four-fifths of the population. This chart shows how the various types of power stations operate, how much electricity they contribute to the system annually, and where the electricity is used.

Yallourn station uses brown coal obtained on the spot. Not being subject to fuel shortage, it can give its maximum possible output 24 hours daily.

Five steam power stations, located in Melbourne and provincial cities, burn briquettes or black coal. Keeping them supplied with enough fuel is a big problem.

Six hydro plants, in various places, contribute power according to the amount of water available. This is seasonal and also partly depends on irrigation needs.

YALLOURN 49%

OTHERS 44%

HYDRO 7%

All stations feed their output of electricity into one common pool and all consumers draw their requirements from this pool.

TRAMWAYS 5%

INDUSTRIAL 45%

COMMERCIAL 15%

DOMESTIC 33%

PUBLIC LIGHTING 2%

Although more electricity is being produced by the Commission every year, there is still a gap between supply and demand and, until this position can be rectified, restrictions will be necessary. Restrictions apply to all classes of consumers except tramways, but industry is restricted very little because factory production and full employment must be maintained. Any relaxation of the restrictions on any one class of consumers would involve heavier restrictions on another class.

Sharing the power - - while it's short

Electricity has to be made in power stations as and when it is wanted by consumers; it cannot be stored in any large quantity like water and gas. This means that the total amount of electricity that can be used at any moment is limited to the capacity of the generating plants. In general it means, too, that every time lights and appliances are switched on, more coal has to go into a boiler furnace in a power station.

Over the last 10 years—six of them war years—the Commission has increased its generating capacity by 50 per cent, but the use of electricity has increased by over 100 per cent. For the present, at certain times on occasional days, the power stations are physically unable to meet all the demand made on them by consumers.

SAVING THE SCARCE FUELS

Moreover, for the time being, any increase in electricity supply must be produced by burning fuels which are both scarce and expensive. At present, about two-fifths of all the electricity used in Victoria is generated from briquettes or imported black coal. Saving electricity means, therefore, the saving of these scarce fuels.

Of course, the switching on of one lamp does not make an appreciable difference to the load on the generating system. But if every one of the 425,000 homes supplied switched off one 60-watt lamp, the whole output of one of the largest generators would be released for essential purposes—or scarce fuel would be saved.

THE PEAK LOAD PROBLEM

This is the main problem: each morning as the whole of Victoria starts to come to life at about six o'clock, first one family, then another prepares for the day's work. On goes one appliance after another—lights in bedrooms, bathrooms, kitchens—electric jugs and kettles—grillers—toasters—radiators. As the demand continues to rise things begin to grow difficult.

By 7.30 a.m. or thereabouts, on a cold winter morning, every generator in every power station is working flat out, the boilers producing a maximum of steam, the hydro-electric stations supplying their utmost. But still the demand rises—for by now trams and trains are running at their peak, and the factories are switching on machinery to start the day's work.

What happens when the peak is reached? The control engineers directing the load on the power stations from the central control room for the system still try to supply everyone. But as the demand goes on rising the generators cannot keep their proper speed and they begin to slow down from overloading. This, by the way, is why electric clocks sometimes lose time.

DANGER OF "BLACK-OUTS"

Overloading cannot be allowed to go too far. If it did, the whole generating system would cease to operate, causing a serious State-wide "black-out". So a special radio appeal is broadcast asking listeners to switch off all non-essential lights and appliances immediately.

If that does not reduce the load sufficiently, the alternative—which as you can see is forced upon the control engineers—is to "shed" load. This the Commission aims to avoid, with your co-operation, as it simply means that groups of consumers are temporarily cut off from supply—and this inconvenience may happen to you.

In the afternoon the demand rises again, and at about four o'clock (in the winter) lights go on in factories, shops and homes, appliances are switched on for cooking the evening meal, trams and trains begin running more frequently, and the control engineers have another difficult period until about six o'clock in the evening.

YEAR-ROUND ECONOMY NEEDED

The peak periods are anxious times all the year round. In the warmer weather, when the demand is less than in winter, every opportunity must be taken to overhaul generating plant so that every machine will be ready again for constant heavy duty during the winter. So at no time of the year is there any great margin of generating capacity, and restrictions must be continued throughout all seasons.

But things are improving, and in a few years there should be enough generating plant, and enough fuel, to supply everyone with all the electricity required at any time. But dealing with the situation as it is at present, how can you, the electricity consumer, help to minimise the shortage? The Commission seeks your co-operation in each of the four ways which are set out in the next column.

How you can help

Observe Restrictions

Be conscientious in your observance of the definite restrictions on use of electricity, which are designed to cause the least possible inconvenience to the community as a whole, and above all to maintain full supply of electricity for industry and all essential services.

Avoid "Peak" Hours

Be particularly careful to use the absolute minimum of electricity between 7.30 a.m. and 10 a.m. on weekdays, these being the critical peak periods when the demand for electricity, particularly on cold, dark mornings, may become greater than power stations can supply.

Heed Radio Warnings

Switch off immediately all electricity not really essential whenever radio stations broadcast the emergency warning that power stations are overloaded and that temporary cutting off of supply from whole areas is imminent unless consumption is reduced very quickly.

Eliminate All Waste

Practise economical use of your appliances at all times and avoid all waste of electricity in order to save scarce fuels and to ease the continuous strain on generating plant, which must have time for regular daily maintenance to keep it in first-class operating condition.