#### 1951 —— VICTORIA

# STATE ELECTRICITY COMMISSION OF VICTORIA

## THIRTY-SECOND ANNUAL REPORT

FOR THE

FINANCIAL YEAR ENDED 30TH JUNE, 1951,

TOGETHER WITH

#### APPENDICES

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

By Authority:



## STATE ELECTRICITY COMMISSION OF VICTORIA

# THIRTY-SECOND ANNUAL REPORT

FOR THE FINANCIAL YEAR ENDED

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#### STATE ELECTRICITY COMMISSION OF VICTORIA.

#### FEATURES OF 1950/51 OPERATIONS.

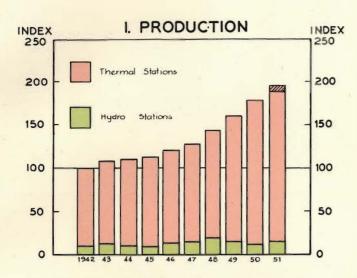
				<u> </u>
	1950–51.	1949-50.	Increase or Decrease.	Percentage.
FINANCIAL.				
INCOME— Electricity Supply £ Briquetting (after Stock Adjustment and less Sales to	11,524,389	9,446,008	+ 2,078,381	+22.0
Works) £	520,052	436,862	+ 83,190	+19.0
Brown Coal (less Sales to Works)         £           Tramways            Miscellaneous	203,418 175,063 31,576	244,100 171,504 40,183	- 40,682 + 3,559 - 8,607	$ \begin{array}{r} -16.7 \\ +2.1 \\ -21.4 \end{array} $
EXPENDITURE $\pounds$	12,454,498 12,452,638	10,338,657 10,688,025	+ 2,115,841 + 1,764,613	+20·5 +16·5
PROFIT OR LOSS £ TRANSFERS FROM RESERVES £	P. 1,860	L. 349,368 100,000	=	=
NET SURPLUS OR DEFICIT $\pounds$	S. 1,860	D. 249,368	_	
CAPITAL EXPENDITURE—At end of Year $\pounds$	93,096,608	61,358,803	+31,737,805	+51 ·7
RESERVES—At end of Year $\pounds$	19,308,612	18,200,424	+ 1,108,188	+ 6·1
ELECTRICITY PRODUCTION AND SALES.				
MAXIMUM COINCIDENT DEMAND ON POWER STATIONS (25th July, 1950)kW	497,370	504,090	— 6,720	- 1.3
ELECTRICITY GENERATED—				
50 Cycle	2,518·5 87·0	2,362 ·8	+ 155 · 7	+ 6.6
ELECTRICITY SALES—  General Supplies	2,030 ·6 70 ·7	1,880 ·2	+ 150 ·4	+_8.0
NUMBER OF CONSUMERS (excluding Bulk Supplies)	415,682	391,005	+ 24,677	+ 6.3
AVERAGE kWh SOLD PER CONSUMER—  Domestic	1,566 39,529 3,817 3,577	1,556 35,550 3,555 3,313	+ 10 + 3,979 + 262 + 264	+ 0.6 +11.2 + 7.4 + 8.0
AVERAGE PRICE PER kWh SOLD—	1 070		0.105	
Domestic	1 ·679 1 ·178 2 ·178 1 ·495	1 ·554 1 ·041 2 ·148 1 ·392	+ 0.125 + 0.137 + 0.030 + 0.103	+ 8 · 0 + 13 · 2 + 1 · 4 + 7 · 4
MOTORS CONNECTED—         Number	101,988 565,298	96,150 528,618	+ 5,838 + 36,680	+ 6·1 + 6·9
NUMBER OF FARMS SERVED	17,572	15,741	+ 1,831	+11.6
BRIQUETTES— Produced tons Sold and used at Power Stations tons	511,404 503,613	588,5 <b>6</b> 4 580,173	- 77,160 - 76,560	-13·1 -13·2
YALLOURN OPEN CUT — Brown Coal Won tons	6,056,331	6,404,059	_ 3 <b>4</b> 7,7 <b>2</b> 8	5.4
YALLOURN NORTH OPEN CUT—	688,374		- 76,537	10.0
TRAMWAY PASSENGERS	13,738,274	764,911 14,213, <b>5</b> 25	- 475,251	- 3·3



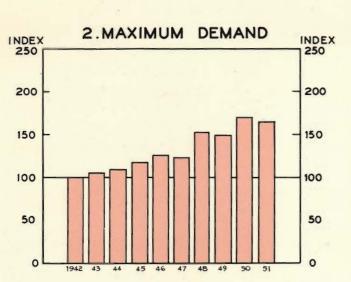
## TEN YEAR STATISTICAL REVIEW BASE YEAR 1941/42 = 100

NOTES: 1. Statistics during the past six years have been affected by electricity restrictions.

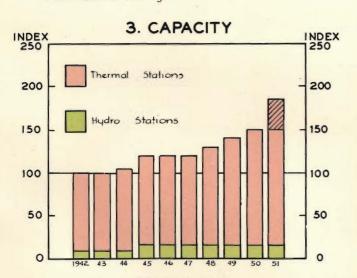
2. Shaded portion of graphs show effect of acquistion of Newport 'A' (Railways) Power Station (21-151) on this years statistics.



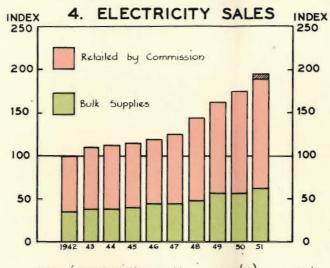
Production of Electricity (2605.5 million kwho in 1950/51) has almost doubled over the decade.



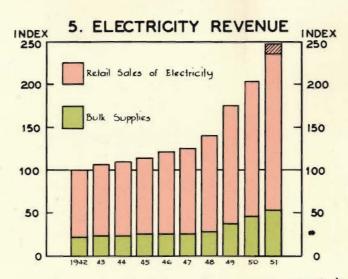
Maximum demand for 1950/51 was 497, 370 kW. Restrictions on the use of electricity were more severe this year.



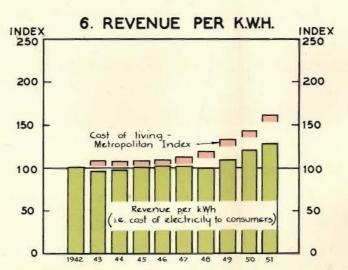
The installed capacity of generators was 625,882 kW at 30.6.51. The increase was due almost solely to the acquisition of Newport A' Station (Railways 25 cycle)—there was very little increase in the capacity of 50 cycle plant.



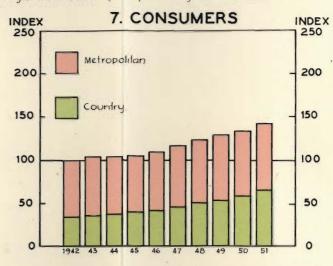
Sales (2101.3 million kwhs in 1950/51) increased by 12 per cent this year.



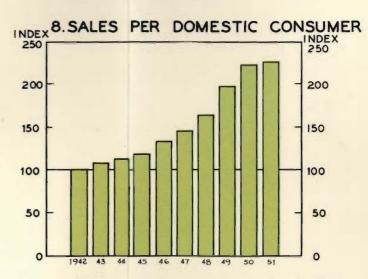
Over the decade, Revenue (£11.5 million in 1950/51) has more than doubled. Rates have increased during the last three years to meet rising costs.



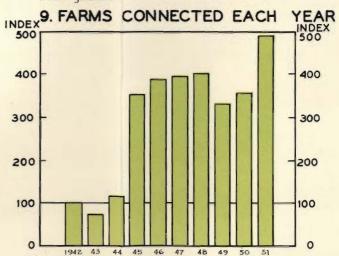
years ago: this rate of increase is less than half the rate of increase in cost of living.



The number of consumers (415,682 at 30.6.51) has increased steadily, during the decade; country consumers have almost doubled.



Since 1942 consumption per domestic consumer has increased from 703 to 1.566 km/s - but for restrictions on the use of electricity this increase would have been greater



Total farms connected at the 30th. June 1951, was 17,572: the increase for the year (1831) was the highest yet recorded.

#### THIRTY-SECOND 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-second Annual Report of the Commission covering the financial year ended 30th June, 1951, together with the Balance Sheet and Profit and Loss Account.

It is pleasing to report a substantial increase in the output of electricity, also that service has been extended to 24,677 new consumers, by far the greatest number yet recorded. Minor additions have been made to generating capacity and good progress was made on major power projects. Plants have been maintained at satisfactory standards.

The overall capital expenditure for the year exceeded £32 million; this reflects the marked acceleration in the construction programme which by June, 1951, was approaching its full momentum and planned objectives were within reasonable attainment. Following the decision of the Loan Council in August, 1951, the Commission's works programme for 1951/52 has received a serious setback and has had to be drastically cut from £52 million to £44 million.

All works in the £52 million programme were recommended to the Prime Minister by the Commonwealth-State Consultative Committee on Electric Power as being essential and urgent for planning the economy on a footing of defence preparedness and were recognised as having high priority in the national works programme. It is, therefore, most unfortunate, not only from the Victorian standpoint but from the national one, that the Commission now is forced to delay the completion of most important works because it is at this juncture denied sufficient funds to finance the expenditure involved; particularly is this so as the Commission over recent years has been urged strongly by successive Governments to expedite the completion of the projects. The Commission's disappointment is shared by the staff and personnel in general who have striven during and since the war to bring these major proposals into operation within periods much shorter than normal for large power and fuel projects in this country.

There will be a twofold effect from this delay — a much greater period must elapse before the Commission is able to meet the State's power and briquette requirements in full, and in the meantime interest and other costs have to be carried on the works temporarily suspended.

Although the cut in loan funds was not announced until the end of August, 1951, short references have been made in this report to the principal works affected.

#### FINANCIAL.

In common with other large undertakings, results have continued to be affected seriously by the sharp upward trend in costs: these increases in labour and material charges are reflected in the additional operating expenditure of £1,764,613 (16.5 per cent.).

Income from all sources totalled £12,454,498, an increase of £2,115,841 (20.5 per cent.). This increase was due to additional sales and to revised charges for electricity. There was a profit on operations of £1,860.

With the continued upward trend in costs, it was clear that electricity tariffs would have to be increased, and rates were revised as from 1st July, 1951.

#### ELECTRICITY SUPPLY.

The overall increase in sales (excluding supply for Victorian Railways' traction system) was 150 million kWh, reflecting the rapid expansion in the use of electricity despite restrictions. A record number of consumers (24,677) was connected, 31 per cent. more than last year and more than twice the number in pre-war years — 67 per cent. were in country areas, including 1,831 farms.

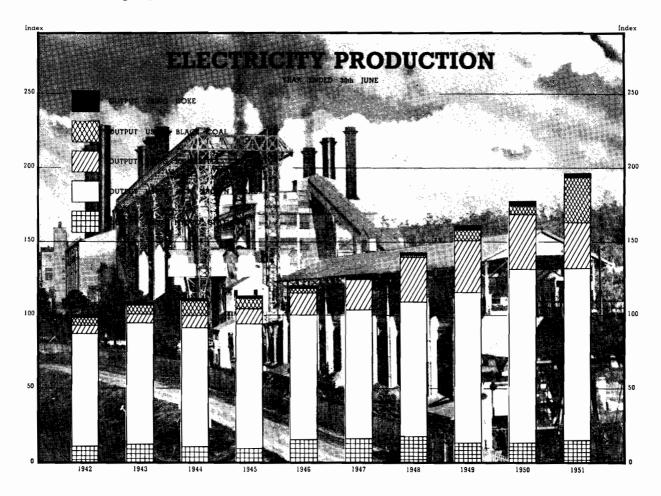
#### ELECTRICITY RESTRICTIONS.

Because of the continued shortages of fuel, and delays in the installation of new generating plant, more severe restrictions had to be imposed upon the use of electricity, particularly during the latter half of the year.

The Commission has been gratified with the very ready response of the main body of consumers, not only in the observance of restrictions but also in their willingness to effect economies in the use of electricity over and above the statutory obligations. This co-operation by all sections of the community has been most encouraging and has assured a satisfactory service almost without interruption during the winter months of 1951. This response was considerably assisted by the manner in which the Press and radio stations presented the Commission's appeal for a wide-spread community effort.

#### FUEL SUPPLIES.

Over the last decade the output from the Commission's power stations has almost 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).



During and since the war the only practicable extension of the State generating system has been the installation of plant at stations originally designed for peak load operations (particularly Newport Power Station), with the result that these stations now are carrying a substantial portion of the base load and much greater quantities of fuel are required in the metropolitan area.

Under these circumstances, and as the Commission is not permitted to retain its full production of briquettes, the shortage of black coal has constituted a serious problem and has been responsible for some of the restrictions imposed on the use of electricity. The serious New South Wales coal strike last year, followed this year by the prolonged rail strike (October-December, 1950), prevented the customary building up of stocks over the summer period, and the position became most acute when shipping for black coal being imported from overseas for the Commission was withdrawn at short notice. In this emergency Yallourn North brown coal has been used in larger quantities at the Newport Power Station and also at Geelong.

In addition, the Government has contracted for the supply for power station purposes of 200,000 tons per annum of Callide (Queensland) coal for delivery in each of the three years commencing 1st March, 1951. Up to the close of the financial year, very little of this coal had been received but arrangements now have been made for regular shipments.

#### MAJOR EXTENSIONS TO GENERATING PLANT.

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 13 of this report. The total capacity of generating plant on order is 826,000 kW.

#### PROVINCIAL TRAMWAYS.

With each succeeding year the adverse financial result of all three provincial tramway systems becomes more serious. Fewer passengers are being carried, while wages and other costs are increasing rapidly the burden of loss which has to be borne by the consumers of electricity throughout the State. It is an injustice to electricity consumers as a whole that up to date they have subsidised Ballarat, Bendigo and Geelong Tramways to the extent of nearly £1 million.

For a revenue of £175,063 there was incurred a loss of £162,448. Although some relief will follow the increase in fares (30 per cent. approx.) from 1st July, 1951, the prospect can only be slightly improved, as even this increase no doubt will reduce the use of trams by the residents of the three provincial cities.

The Commission on several occasions has emphasised that these electric tramway services have never been economically justified and notes with satisfaction the recently announced intention of the Government that the new Transport Authority will consider the future of street transport in these cities.

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Following an examination in 1948-49 of the three provincial city transport services, Mr. H. H. S. Bell, Junior, of the Melbourne and Metropolitan Tramways Board, recommended in reports to the Government 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. The Commission has advised the Government that it is in accord with the recommendation for a single transport authority, also, if the other recommendations are adopted, the transition should be gradual by the abandonment of one tramway route at a time.

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#### ANNUAL ACCOUNTS

#### SUMMARY OF INCOME AND EXPENDITURE.

Year Ended 30/6/50 £							Year Ended 30/6/51 £
9,446,008 436,862 244,100 171,504 40,183	•	Income— Electricity Supply Briquetting Brown Coal Provincial Tramways Miscellaneous					11,524,389 520,052 203,418 175,063 31,576
10,338,657		Total Income					12,454,498
10,688,025	Le 9,284,555 455,408 218,475 297,493 432,094	Electricity Supply Briquetting Brown Coal Provincial Tramways Miscellaneous Total Expenditure				11,182,449 579,182 197,417 337,511 156,079	12,452,638
£349,368 100,000		Loss—Net Operating Transfers from Rese		-Profit			£1,860
£249,368		Deficit—Net Result—	Surplus				£1,860
*Pogani	ac of an alt	oration in the mathe	-4 of -11	ogatin.	~ 01170	nditura tha	figures for

<sup>\*</sup>Because of an alteration in the method of allocating expenditure the figures for 1949/50 are not strictly comparable with those for 1950/51.

As compared with the previous year the main differences in Receipts and Expenditure were as follows:—

An increase in total income		£2,115,841 (	(20·5 per	cent.)
An increase in income from Electricity Supply	 	£2,078,381 (	(22·0 per	cent.)
An increase in income from Briquetting		£83,190 (		
A decrease in income from Brown coal			(16·7 per	cent.)
An increase in income from Provincial Tramways		£3,559 (	(2·l per	cent.)
An increase in total expenditure	 	£1,764,613	(16·5 per	cent.)

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, 1951, was £83,647,043. The commitments involved are:—

Liability to State of Victoria	£17,057,157 66,581,549 8,337 £83,647,043
Loan Liability has increased this year by £32,376,976.  (a) Indebtedness to State of Victoria	1,250,226 31,598,215
Less—  (a) Reduction of indebtedness to State through National Debt Sinking Fund	32,848,441 471,465
	£32,376,976

Included in the above were two public loans—No. 50 of £3,000,000 and No. 68 of £6,000,000 (interest £3/5/- and £3/7/6 per cent. respectively). Loan No. 50 was oversubscribed, but for Loan No. 68 an amount undersubscribed (£1,907,700) was met by the Underwriters.

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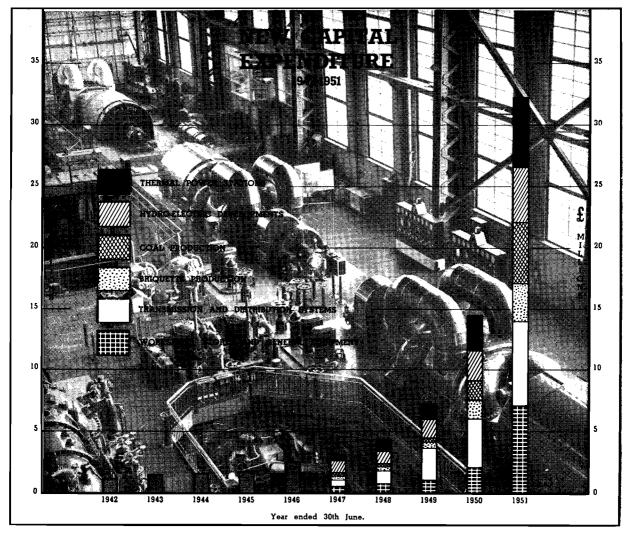
During the year legislation was passed authorising an extension of the Commission's borrowing powers from £65,500,000 to £115,500,000, and raising the bank overdraft limit from £2 million to £7 million (State Electricity Commission Act 1950 No. 5514 and State Electricity Commission (Overdraft) Act 1951 No. 5529, respectively).

#### CAPITAL EXPENDITURE.

Total capital expenditure at 30th June, 1951, was £93,096,608.

After deduction for retirements and the writing out of non-productive expenditure, the total expenditure on capital works increased by £31,737,805. The principal increases were in the following accounts:—

Coal Productio	n									
Morwell										£1,170,635
Yallourn									, ,	812,782
Briquette Prod	uction–	_								
Morwell										3,033,839
Yallourn										190,052
Power Product	ion									
										0.001.400
Thermal S	tations-				• •					2,331,468
		Yallo								2,034,125
		Richr			• •					1,100,340
			partor							475,290
			namb	001						364,889
		Geel								333,756
		Balla	rat							128,494
Hydro Stat	tions—l	Kiewa								2,250,943
Transmission S	System					. ,				978,423
Terminal Tran.	-	ion								906,050
	_		• •							000,000
Distribution Sy	stem—									
Metropolit	an									674,015
Provincial	and C	ountry	Branc	ches						1,786,521
		•								
General—(Constr	uction plan	t, township	s, roads,	services, a	ccommoda	tion, works	shops, stor	e building	s, etc.)	
Kiewa				1 1			. ,			4,443,015
Morwell										2,097,793
Yallourn										3,817,068
Head Offic	ce and	Electr	icity S	Supply	Branch	ıes				1,204,915



#### RESERVES.

Total reserves at the 30th June, 1951, were £19,308,612. The increase in the Depreciation and Sinking Fund Reserve for the year was £1,125,232; there was a decrease in the Contingency and Obsolescence Reserve of £17,044, the overall increase in Reserves being £1,108,188.

At the 30th June, 1951, the Depreciation and Sinking Fund Reserve totalled £17,050,236. Of the total, £2,166,632 was to the credit of the Commission in the National Debt Sinking Fund Reserve, £14,291,427 to the credit of the Depreciation Reserve (which, with the exception of £611,656, applied to the National Debt Sinking Fund Reserve, was invested in the business of the Commission) and £592,177 to the credit of the State Electricity Commission Sinking Fund Reserve. Other Reserves were:—

			£
Contingency and O	bsolescence	Reserve	 735,34
Rural Development	Reserve		 1,200,00
General Reserve			 323,029
			£2,258,37

#### AUTHORISATION OF CONTRACTS BY GOVERNOR IN COUNCIL.

Earlier legislation required the Commission to obtain the approval of the Governor in Council to all contracts exceeding £500 or if the performance extended beyond a period of 12 months. In October, 1950, the State Electricity Commission (Contracts) Act No. 5466 increased this amount to £5,000 and the period to three years.

0 0

#### SYSTEM GENERATING CAPACITY

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

\*The planned dates of operation for these plants are affected by the financial restrictions referred to on page 7.

	Expected Date of Operation
(as	planned 30th June, 1951)
• •	1953 onwards
 .ed—-	1951–52
 kW	1954
	1952
on on	1953–54 *1954–55
	1955
	*1951-53
	*1951-53
	*1951–53 1953
	1953
	1953
••	1000
	1953
	*1953-54 *1956-58
	1953
	1953
	kW on on

#### 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 1956; the output is to be shared by New South Wales and Victoria.

#### 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. Following discussions between both authorities on the problems associated with the transfer of personnel and assets, the Commission, with the approval of the Governor-in-Council, assumed control of the Station on the 21st January, 1951. In September, 1951, the Newport "A" Power Station Act 1951 (No. 5554), providing for the transfer of loan liability in respect of this Station from the Victorian Railways to the State Electricity Commission, was passed by both Houses of Parliament.

## USE OF 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  $l\frac{1}{4}$  to 2 million acre feet; also to the agreement between the State Electricity Authorities of New South Wales and Victoria regarding the use of the water for electricity generation.

Victoria regarding the use of the water for electricity generation.

The power station (two 25,000 kW turbo-generators) will be located in New South Wales and is to be installed and operated by that State; the station is being designed by this Commission. The output and annual costs will be shared by the two Electricity Authorities. The two turbo-generators have been ordered by the New South Wales Public Works Department.

#### EILDON PROJECT.

The State Rivers and Water Supply Commission is to increase the capacity of the Eildon Reservoir from 306,000 to 2,750,000 acre feet, and the construction of the new dam by the Utah Construction Co. of U.S.A. has commenced.

Agreement has been reached with the State Rivers and Water Supply Commission concerning the installation of 120,000 kW of generating plant at this location. The reservoir is to be enlarged beyond the requirements of irrigation so that water will be available for emergency and peak winter electricity demands (normally water from irrigation storages is released during the summer period when the demand for electricity is lowest; thus, in that portion of the year when electricity demand is highest, storages are filling and there is no regular output of energy). Also, a regulating pondage is to be constructed below the dam so that water can be released from the reservoir at times during the day when it would be most beneficial for power generation.

The power house is to be constructed by the contractor for the dam. The two 60,000 kW turbo-generators have been ordered.

#### OTHER IRRIGATION PROJECTS.

As reported in previous years, provision has been made for a hydro-electric development of  $1,600~\rm{kW}$  at the Cairn Curran Reservoir. The practicability of installing hydro-electric plants at other irrigation projects is being studied as developments proceed.

## COMMONWEALTH-STATE CONSULTATIVE COMMITTEE ON ELECTRIC POWER

The Commonwealth, after consultation with the State Governments, has appointed a Commonwealth - State Consultative Committee on Electric Power to examine and advise on the present electricity supply position in each State, particularly in view of the need to prepare the Australian economy against the possibility of war and to ensure that the development of power potential is adjusted to defence requirements. The Chairman of the Commission (Mr. R. A. Hunt) was appointed on 9th July, 1951, to represent Victoria on this Committee.

The resources of each State have been surveyed and programmes for power development were reviewed as to their impact on war preparations. The Committee affirmed the programme of works for 1951/52 submitted for Victoria as being of "the highest order of essentiality" to place the economy on a footing for defence preparedness within three years, and that there would be a grave deterioration of the power position if the works are not proceeded with.

#### VICE-REGAL VISITS TO COMMISSION UNDERTAKINGS

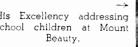
His Excellency the Governor of Victoria, Sir Dallas Brooks, and Lady Brooks inspected the Commission's undertakings at Yallourn and Morwell on the 5th September, 1950. A civic reception was tendered to His Excellency and Lady Brooks.

On the 14th-16th March, 1951, His Excellency and Miss Jeanette Brooks inspected the works at the Kiewa Hydro-Electric Project, and visited the townships of Mt. Beauty and Bogong.



His Excellency Sir Dallas Brooks. Governor of Victoria, addressing assembly at Yallourn during his visit to that undertaking on 5th September, 1950.

Vice-Regal party inspecting the Kiewa Hydro-Electric Project on 15th March, 1951.





#### CONNECTION OF NEW CONSUMERS

There were 24,677 new consumers—a record year for the Electricity Supply Department. Special measures were continued overseas to augment substantially the restricted local supplies of line construction materials, substation equipment and transformers. These measures have made it possible to connect 76,396 consumers during the last four years, as compared with 47,064 for the four years prior to the war. In addition to the work carried out by the Commission's own forces, contracts have been let for the erection of several extensions.

SUMMARY OF PROGRESS-76,000 Consumers in Four Years.

							New Consumers Con	nected.	Farms
7	Year e	nded (	30th Ju	ne.		Total.	Metropolitan Area.	Outside Metropolitan Area.	Connected.
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 1 <b>951</b>				 . <b>.</b>		18,870 2 <b>4,67</b> 7	6,380 (34 per cent.) 8,156 (33 per cent.)	12,490 (66 per cent.) 16,521 (67 per cent.)	1,322 1,831
Total f	or Fou	ır yea	rs			76,396	26,297 (34 per cent.)	50,099 (66 per cent.)	5,731
Total f	for Fou	ır yea:	rs prio	r to w	/ar	47,064	24,398 (52 per cent.)	22,666 (48 per cent.)	2,992

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

		1	Outside Metropolitan Area	Metropolitan Area
Poles erected	 		11,788	2,715
High voltage lines erected	 		282·2 miles	22·7 miles
Low voltage lines erected	 		412.9 miles	80·8 miles
Substations erected	 		563	50

During 1950/51, this allocation 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.

Extra - metropolitan consumers have doubled and the number of farms connected has almost 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.
1940-41						 	284,373	93,226	6,410
1945-46						 	321,631	119,424	10,209
1950–51					٠.	 	415,682	182,382	17,572

#### ELECTRICITY SUPPLY TARIFFS

The accelerated and substantial increases in operating and capital costs have continued to cause the Commission much concern, and it was with reluctance that rates had to be further increased by about 20 per cent. as from 1st July, 1951; the new tariff schedules are shown in Appendix No. 13.

These tariff adjustments were formulated to ensure an increase in annual revenue of £2,200,000 per annum. Despite this increase, the average cost per kilowatthour to consumers is today only 26 per cent. higher than ten years ago—this rate of increase is less than half that of the general cost of living (see Graph No. 6—Ten Year Statistical Review—in the front of this report).

#### RUBAL ELECTRIFICATION OF THE STATE

Since the close of the financial year, the Commission's Report and Developmental Plan covering the Final Phase of Rural Electrification of Victoria to be completed within ten years has been presented to Parliament. The report provides for:—

(a) 178,000 consumers to be connected in areas outside the metropolis; of this number only 22,000 homes are at present receiving supply from local undertakings.

(b) 48 local undertakings in country areas to be acquired and supply extended to about 650 centres and other small settlements not at present having electricity available from public mains.

On completion of the plan there will remain without supply 15,000 homes in the most isolated parts of the State, but every effort will be made to include as many as possible in the plan.

The capital cost of the plan, including the Murray Valley regional scheme approved in August, 1950 (referred to in last year's report), is estimated at approximately £45,000,000. Based on cost levels at the date of the report, it is estimated that, notwithstanding the high cost of extending supply to remote dwellings and farms, the cost of electricity at the terminals of the 178,000 new consumers will average 4.1d. per kilowatt-hour.

Under the Plan tariffs would be framed to supply new urban and town areas at cost, leaving the Commission to provide by subvention from established areas a subsidy for the further development of the more remote areas in the new regions. In meeting the financial burden, however, the Commission emphasises the importance of its being fortified by the transfer to its ownership of the metropolitan municipal undertakings which should not be separated from such obligations. The Commission has aided, and is continuing to aid, rural supplies financially by the pooling of main generation and transmission costs, and in other ways. This further step would complete the co-ordination of the State's supply system in accordance with the obligations placed on the Commission at its inception by Parliament.

The Report of the Electricity Supply Board of Inquiry, referred to last year, was submitted to the Government and tabled in Parliament during the year.

#### 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.

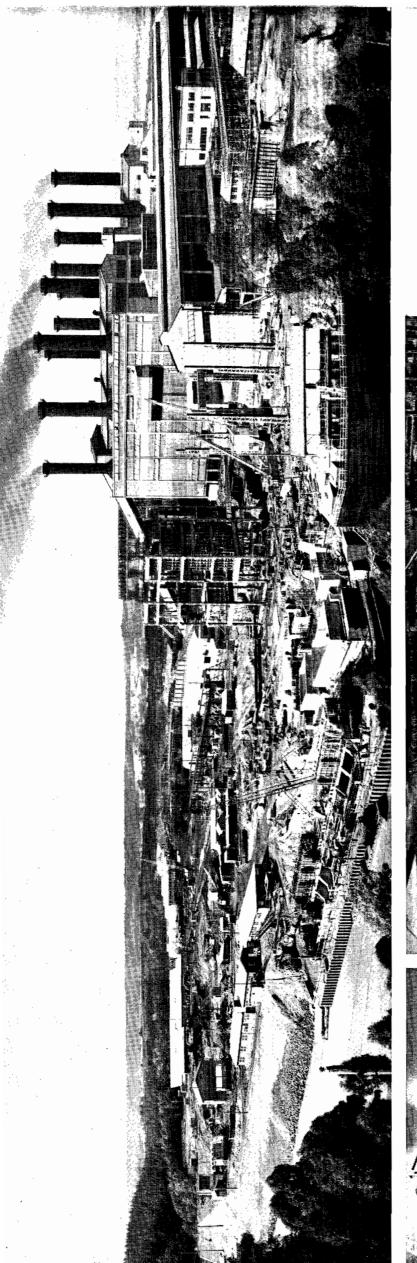
The Victorian Housing Commission has assisted considerably by providing homes for Electricity Commission employees at Moe (507) and Morwell (445) but this, however, is not sufficient to ensure the stability of its labour forces, and, to help in accelerating construction programmes, housing projects are being constructed by the Commission as follows:—

Area				Houses to be built	Completed 30th June, 1951
Yallourn A.	rea—				, , , , , , , , , , , , , , , , , , ,
Newboro		 	 	700	384
Yallourn		 	 	350	152
Morwell		 	 	250	32
Kiewa		 	 	579	456
Newport		 	 	100	28
Totals		 	 	1,979	1,052

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

	Hostels				Ultimate Capacity	At 30th June, 195	1
7	Yallourn		 	 	2,868	2,596	
			 	 	1,430	505	
			 	 	6,525	3,052	
]	Metropolitan	Area		 	420	292	
	Totals		 	 	11,243	6,4445	

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



# 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 in 1954). Erection of boiler and turbine houses and feed water plant in foreground.

## Lower left:

Steel frames for first two of the six boilers.



#### MAJOR EXTENSIONS PROGRAMME

#### YALLOURN POWER STATION.

(APPROVED DEVELOPMENT—FOUR 50,000 kW SETS)

Yallourn "C"—Two 50,000 kW turbo-generators, a 6,000 kW back pressure set, and six 200,000 lb. per hour boilers were ordered in 1947; the two turbo-generators have now been delivered, and manufacture of the boilers and associated plant is well advanced.

Main foundations for the boiler house have been completed and the erection of the boilers has commenced in advance of the boiler house structure. The turbine house foundations have been poured and the placing of concrete for the turbogenerator bases is in progress. Construction of the circulating water systems is proceeding satisfactorily.

Yallourn "D"—With minor exceptions, this station will be similar in design and capacity to Station "C". Orders have been placed for the two 50,000 kW turbogenerators and associated boiler plant, also for the supply and erection of the boiler house building. Test boring at the site is proceeding.

**General**—Design for an improved coal handling scheme to meet the requirements of the present Power Stations "A" and "B" and the new Stations "C" and "D" was completed during the year, and much of the plant has been ordered.

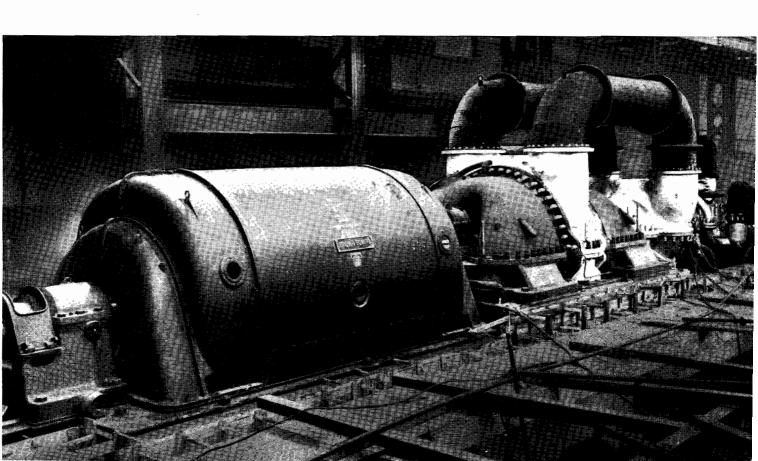
A storage on the upper reaches of the Latrobe and Tanjil Rivers is being investigated with the object of improving water conditions for power station purposes.

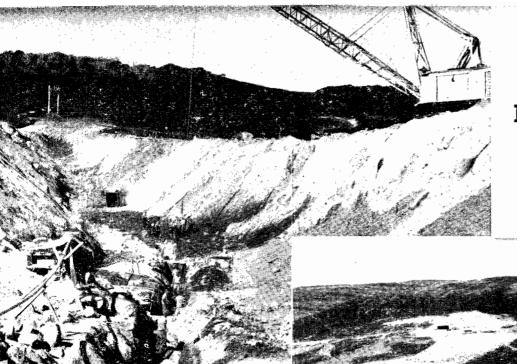
#### RICHMOND POWER STATION-One 38,000 kW Set.

An order was placed in June, 1949, for a 38,000 kW turbo-generator and two 165,500 lb. per hour oil fired boilers. It is expected that this set will be in operation in 1952, firstly with one boiler and at a capacity of 20,000 kW.

During the installation of this large unit in the centre of the power station it has been necessary to take special protective measures to stabilise buildings and to maintain the existing generating plant in service.

New 38,000 kW turbo-generator being installed at Richmond Power Station, to be in operation in 1952.





**KIEWA HYDRO-ELECTRIC PROJECT** 

Excavation of foundations for Rocky Valley Dam.

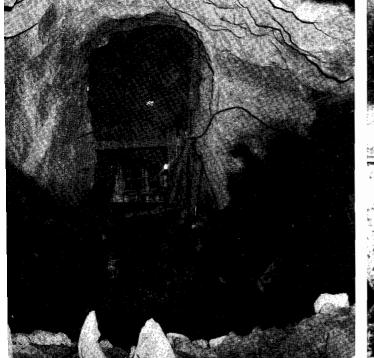
Clover Dam taking shape.

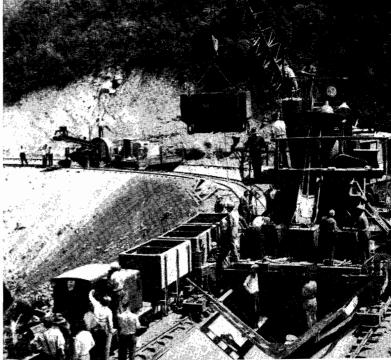


Preparation of site for Pretty Valley Dam.

Lower left:
Excavation of No. 4 Underground Power Station.

Lower right: Trimming and lining machines working on the Bogong Creek Race line.





KIEWA HYDRO-ELECTRIC PROJECT.

Construction personnel (3,598 at 30th June, 1951) generally have been available as required, except for building and electrical tradesmen.

Water Storages on the High Plains.

Seventy-six per cent. of the total excavations for the earth and rock fill dam at Rocky Valley has been completed, and work has proceeded on the foundations and sub-drains. The spillway shaft and tunnel and diversion tunnel have been excavated. Excavations at Langford's Gap proceeded for the diversion (ultimately) of water by racelines to the Rocky Valley Dam.

Preliminary site works and access roads for the larger dam at Pretty Valley have been brought to an advanced stage.

#### No. 1 (Upper) Development.

Access roads to the portal of the headrace tunnel from Howman's Gap and Ruined Castle have been completed and accommodation buildings are well advanced. A contract has been placed since the close of the year for the excavation of the tunnel. An order has been placed for four 16,000 kW turbo-generators for No. 1 Power Station (total capacity 64,000 kW).

#### No. 2 Development.

Preliminary design of this development is being undertaken by the French firm of Societe Etudes et Entreprises, in conjunction with Societe Nationale de Travaux Publics.

#### 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 practically the whole of its total length, while about half of the raceline has been completed. Water from the completed section of the raceline has been available for power generation since the 16th April, 1951.

#### No. 4 Development.

The headrace tunnel has been excavated at the lower end for 8,867 feet—76 per cent. of its total length—and the tailrace tunnel for 5,176 feet—78 per cent. of its total length. Tunnelling has proceeded from the site of the Clover Dam to link with the lower section of the headrace tunnel. The inclined pressure tunnel from the headrace to the power station and the excavations for this underground power station are proceeding.

Excavations for Clover Dam are completed and 38 per cent. of the concrete has been placed.

The manufacture and delivery of the four 15,000 kW. turbo-generators is proceeding satisfactorily; the ultimate capacity of No. 4 Development will be 60,000 kW.

#### No. 5 Development.

Work on this development was suspended to enable resources to be concentrated on works which will provide additional generating capacity at an earlier date.

#### Stores, Housing and Workshops.

At Mt. Beauty, 398 houses are occupied and 73 are in course of erection. Stores, workshops and hostel accommodation have been progressively extended.

0 0 0

Since the close of the year, because of the financial restrictions referred to earlier in this report, construction work by Commission forces at Kiewa has ceased, except for some work on No. 4 Power Station now at an advanced stage. No. 1 tunnel is to proceed under contract. The work stopped includes all construction on the main dams on which the scheme is fundamentally based; personnel has been drastically reduced.

#### NEWPORT POWER STATION.

#### Station "A"—One 30,000 kW and One 40,000 kW Set.

Ownership of this station passed to the Commission on 21st January, 1951; the installation of a 30,000 kW turbo-generator (frequency 25 cycles) by the Victorian Railways has since been completed, but labour shortages have delayed the erection of two associated boilers. Orders have been placed for the  $40,000~\rm kW$  (frequency 50 cycles) turbo-generator and two associated boilers, also for a  $30,000~\rm kW$  frequency changer which will increase the capacity for interchange between the  $25~\rm and~50~cycle$  systems to  $55,000~\rm kW$ .

NEWPORT POWER STATION-Continued.

#### Station "C"-Four 30,000 kW Sets.

With the placing in service in December, 1950, of a further boiler, this project —commenced in 1941 and developed during the difficult years of the war was completed. Auxiliary oil firing equipment has now been installed in all boilers at this station, and a pipeline has been constructed to convey fuel oil direct from the distributor's storage tanks at Spotswood to the power station tanks.

Plant is being installed to enable Station "B" to receive surplus steam from "A" and "C" Stations, thus making fuller use of the installed generating capacity of this

station.

The first of two electrically-operated truck tipplers ordered overseas to meet the urgent need for additional fuel handling facilities was completed in July, 1950, and the second is being installed, together with associated conveyor plant.

#### MORWELL BRIQUETTE PROJECT.

(APPROVED CAPACITY-2,600,000 TONS BRIQUETTES PER ANNUM)

Briquette Factories.

Excavations for the briquette factory area are now complete—during the year 858,738 cubic yards were excavated. Approximately 12,900 tons (32 per cent.) of the structural steel and plant for the first two factories (capacity 1,300,000 tons per annum) have been delivered from overseas. The manufacture of turbo-generators, boilers and associated buildings is well advanced.

An order has been placed with a German firm for the construction of the foundations of these two factories, the boiler and turbine houses and other ancillary build-

ings—the contractor has commenced preliminary works.

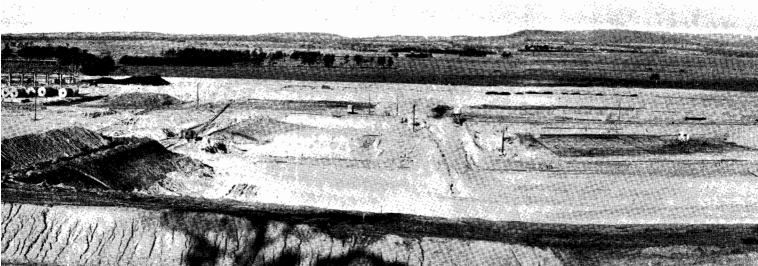
Parliament approved, in December, 1950 (State Electricity Commission Act No. 5514) an increase in the ultimate capacity of the project to 2,600,000 tons briquettes per annum. Accordingly orders totalling £5,563,693 have been placed in Germany for the supply of two further briquette factories, and in England for the supply of turbogenerators, boiler plant and buildings.

During the year 1,083,655 cubic yards of overburden were removed from the new open cut, bringing the total to 1,492,155 cubic yards—the coal surface was reached in May, 1951. Excavations for the overburden disposal railway have proceeded and 3,800 feet of single track completed.

Work has proceeded on the 90 c.m. railway to inter-connect Yallourn and Mor-

well undertakings.

The manufacture has proceeded in Australia of one overburden and one coal dredger (capacity 1,100 cubic yards per hour each). A further dredger (capacity 1,100 cubic yards coal per hour) manufactured in Germany is being erected on the site, and all components for a German overburden spreader (capacity 1,170 cubic yards per hour) are at the site. Another large bucket wheel dredger (capacity 1,880 cubic yards coal per hour) is on order from Germany for delivery towards the end of 1952.



Components for forty-five 32 cubic yard overburden trucks and four 60-ton electric locomotives have been delivered and five similar locomotives are in transit or awaiting shipment.

An order has been placed for coal conveying and crushing plant to bring coal from the first level of the open cut to the briquette factory conveying system.

#### General Services.

Progress has been made in the manufacture of the plant for the temporary pumping station on the Tyers River to supplement water supply to Morwell Reservoir; the pipeline is under construction.

The labour force had more than doubled at the close of the year, when 1,650 men were employed on the scheme by the Commission or its contractors. Stores, offices and workshops are being erected progressively.

0 0

Much of the work on this project is being undertaken by contractors. It has been necessary as a result of the financial restrictions referred to earlier in this report to discontinue day labour work at Morwell, except for that required to provide services to contractors and for certain minor works.

## REGIONAL POWER STATIONS—Geelong (30,000 kW), Ballarat (20,000 kW), Mildura (10,000 kW), Shepparton (10,530 kW), Warrnambool (10,530 kW) and Hamilton (770 kW).

Six 830 kW diesel generating sets were ordered for each of the Shepparton and Warrnambool stations in August and October, 1949, and a further three 1,850 kW sets for each station in April, 1950. Erection of the buildings at Shepparton and Warrnambool is well advanced, and at the former station two 830 kW sets were in operation by the 30th June, 1951.

Orders have been placed for the supply and erection of a total of 60,000 kW of "packaged" type power plants from U.S.A. to be installed as follows:—

 Geelong
 ...
 ...
 30,000 kW

 Ballarat
 ...
 ...
 20,000 kW

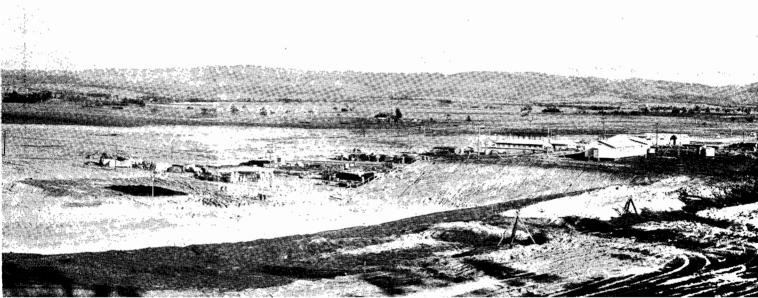
 Mildura
 ...
 ...
 10,000 kW

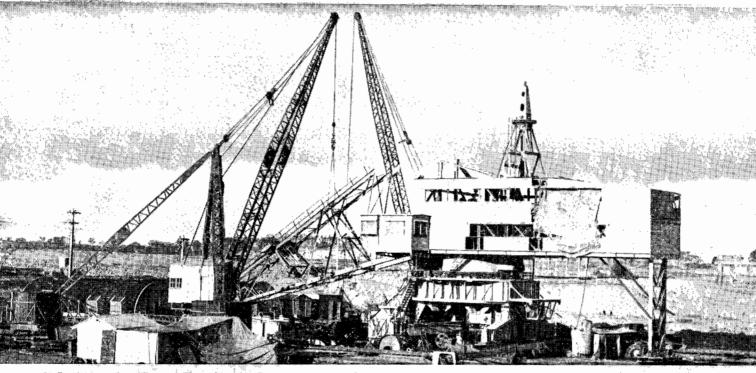
These plants are to be delivered before the end of 1952 and available for the winter of 1953; each plant comprises the complete power station plant as a preengineered unit involving very little design or local work.

A 770 kW diesel generating set was installed at the Hamilton Power Station and placed in service shortly after the close of the year.

MORWELL BRIQUETTE PROJECT — BRIQUETTE FACTORY SITE.

Excavations nearing completion.





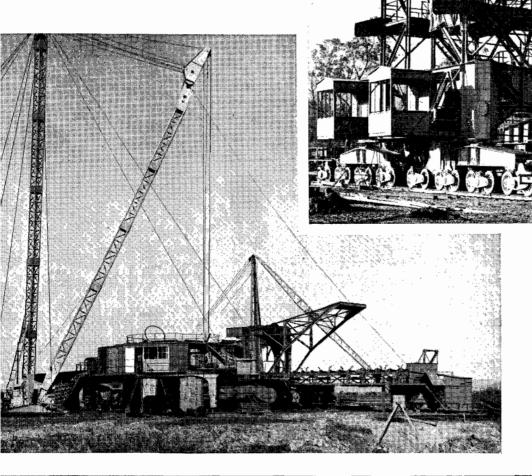
## COAL WINNING PLANT FOR NEW MORWELL OPEN CUT

Overburden dredger (output 1,100 cubic yards per hour).

Overburden spreader—capacity 1,170 cubic yards per hour (cable drum right foreground).

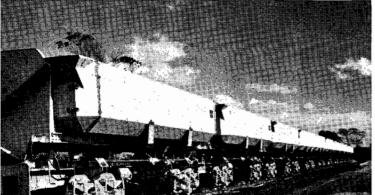
Bucket wheel coal dredger (output 1,100 cubic yards per hour).

Under Construction

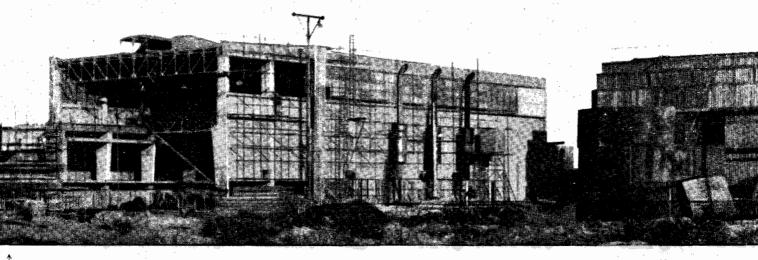


Lower left: 32 cubic yard overburden trucks. (45 delivered.)

Lower right:
60 ton electric locomotive dump plough.



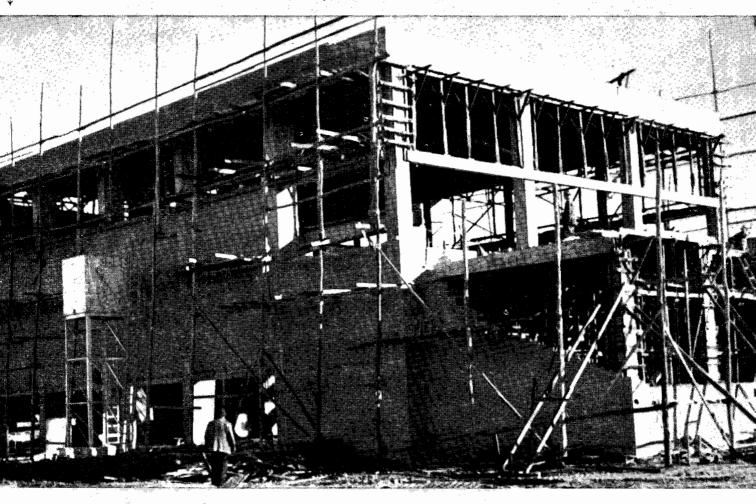




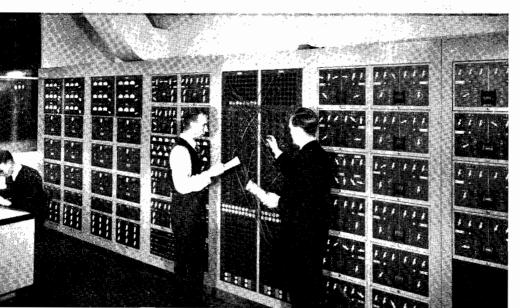
Shepparton — two 830 kW sets in operation at 30th June, 1951.

Warrnambool.

## NEW REGIONAL POWER STATIONS BEING ERECTED (APPROVED CAPACITY 10,500 kW EACH)



#### ALTERNATING CURRENT NETWORK ANALYSER



The first to be installed in Australia. This equipment — which, in effect, is the miniature representation of a Power transmission system — enables network problems to be studied precisely under normal and abnormal conditions.

#### MAIN TRANSMISSION AND DISTRIBUTION.

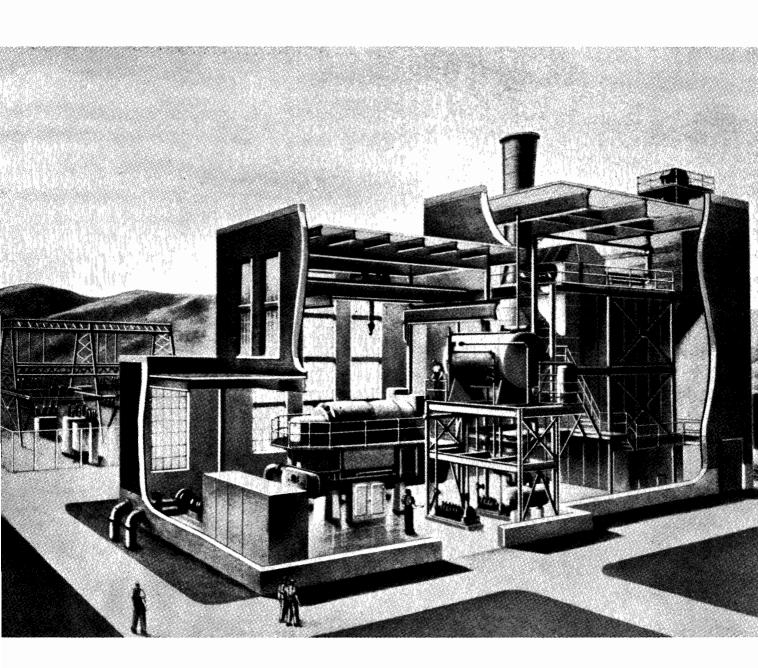
Clearing of the easement and construction of patrol roads for the Kiewa-Melbourne 220 kV transmission line are almost complete; work is proceeding on the 630 towers required for this line.

One of the two 40,000 kVA synchronous condensers (to control voltage on the Kiewa-Melbourne transmission line) was installed at the Brunswick Terminal Station.

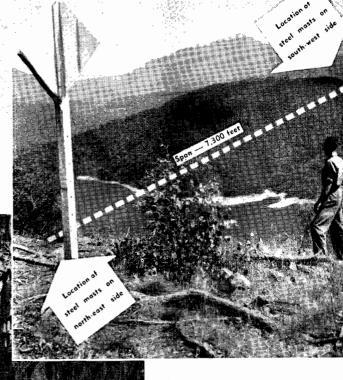
At the Malvern Terminal Station the first 220 kV transformer bank (45,000 kVA) has been installed and placed in service at 132 kV. Three further 15,000 kVA transformers to comprise the second bank and one spare transformer have been delivered.

Work is proceeding on the Sunshine Terminal Station (now in operation) and new terminal stations at Clifton Hill and West Melbourne which are to cater for the rapid industrial development in these areas. New main substations at Blackburn ("BB"), Moorabbin ("MR") and West Coburg ("NS") were established during the year, and those at East Preston ("EP") and Braybrook ("BY") are under construction.

Artist's drawing of a "Packaged" Power Station similar to those being purchased from U.S.A. for erection at Geelong, 30,000 kW; Ballarat, 20,000 kW; Mildura, 10,000 kW.



### KIEWA-MELBOURNE 220,000 VOLT TRANSMISSION LINE

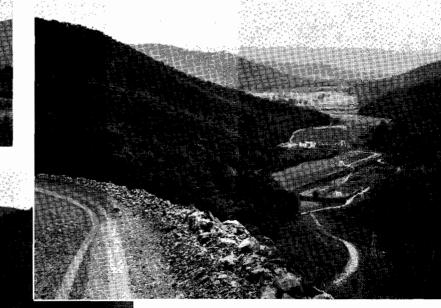


First Steel Tower completed near Bright.



Site of longest span (7,300 feet) the line will cross the Eildon Reservoir.

Construction of access and patrol

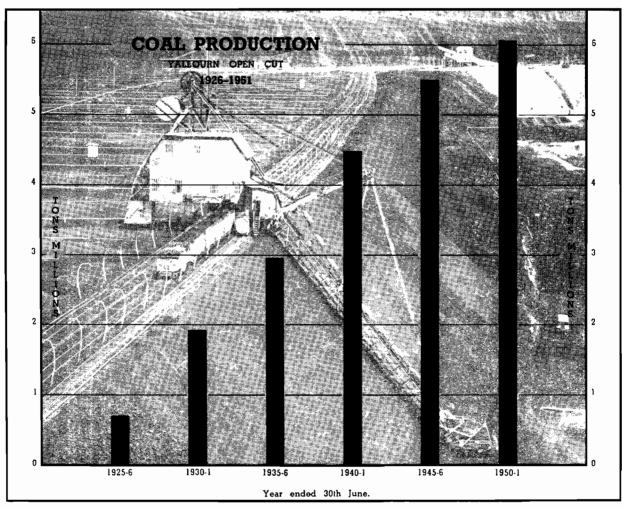


Difficult country (between Mt. Beauty and Bright) traversed by the new line. Towers for this section are being erected parallel to the existing Kiewa-Bright 66,000 volt transmission line.

#### COAL PRODUCTION

#### YALLOURN OPEN CUT.

		Tons
 	 	1,850,849
 	 	2,988,430
 	 	4,485,241
 	 	5,448,626
 	 	6,056,331
	 	· · · · · · · · · · · · · · · · · · ·



Coal Winning.—The year's operations brought the total coal excavated since the commencement of operations to 95.27 million tons. Of the coal won during the year, 3,969,509 tons were delivered to the Yallourn Power Station and 2,086,822 tons to the Briquette Factory. The highest daily output for the year (21,673 tons) was attained on the 26th August, 1950.

Overburden Removal.—1,790,700 cubic yards of overburden were removed, compared with 2,099,900 cubic yards in the previous year, bringing the total removed at the 30th June, 1951, to 34.63 million cubic yards. The smaller quantity removed this year was due to the overburden spreader being out of operation for about two months; also to adverse weather conditions.

The area of the Open Cut has increased from 616 acres to 652 acres at grass level, and from 560 to 591 acres at the surface of the coal.

**Plant.**—The two German dredgers (one for overburden removal and one for coal winning) ordered in 1946 and 1947, and completed during the year, are operating satisfactorily. Four 60-ton electric locomotives also were placed in service.

Erection of the new overburden spreader (capacity 1,170 cubic yards per hour) commenced October, 1950; this machine is to be ready for service early in 1952.

By 1959, with the completion of extensions to the Yallourn Power Station, the annual output of coal at Yallourn will have increased by over 50 per cent.—to cope with this increase and the ultimate replacement of two of the older dredgers, an order has been placed in Germany for a bucket wheel dredger (capacity 2,340 cubic yards per hour) and tenders have been called for two deep chain dredgers (capacity approximately 2,500 cubic yards per hour).

#### YALLOURN NORTH OPEN CUT.

690,425 tons of coal were produced during the year for power generation (Newport and Geelong) and important industries, compared with 764,131 tons last year, making a total of 3,863,785 tons produced since the Commission commenced operations at this cut in 1924. Production was limited to a small output during the rail strike of October-December 1950.

The bucket wheel coal dredger (output 880 cubic yards coal per hour) ordered from Germany is being erected and will be ready for service early in 1952. To handle additional outputs, two movable belt conveyors (total length 2,000 feet) were installed: a further three movable conveyors (combined length 3,600 feet) were ordered.

#### POWER PROTUCTION

The State generating system comprises inter-connected power stations at Yallourn, Melbourne (Newport, Richmond and Spencer Street, City), Kiewa, Sugarloaf-Rubicon, Geelong, Ballarat and Shepparton. 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 subsations, together with the lines linking the main substations. 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.

The installed capacity of generating plant at the 30th June, 1951:— STATE GENERATING SYSTEM.

		,		50 <i>Cycle</i>	25 Cycle (Railways Traction)
Thermal Stations-				kW	kW
Yallourn (including	Brio	quette	Factory)	183,000	
Melbourne—					
Newport				198,000	113,000
Spencer Street				43,658	
Richmond				15,000	
Geelong				10,500	
Ballarat				5,900	
Shepparton				1,660	
Hydro Stations—					
Sugarloaf-Rubicon			. ,	26,415	
Kiewa (1st Stage)				26,000	
*Total				510,125	113,000

- \*At Thermal Stations, all generators could not be used to full capacity because of limitations on boiler capacity and fuel.
  - Notes.—1. Under emergency conditions, frequency changers are used for supply between the 50 and 25 cycle systems, the maximum capacity being 22,000 kW.
    - 2. The Commission operates a Thermal Station at Hamilton (installed capacity 2,757 kW) which is not connected to the State system.

Details of the loading on (a) Power Stations throughout the State and (b) Commission Power Stations, are given in Appendices Nos. 6 and 7.

#### LOADING ON COMMISSION'S POWER STATIONS.

50 Cycle.

5	Maximum De	emand (kW).	kWh Genera	ted (millions)
Power Stations.	1950–51.	1949-50.	1950–51.	1949-50.
Thermal Stations— Yallourn (including Briquette Factory)	187,000	188,000	1,241.8	1,237.6
Melbourne— Newport ("B" and "C")	183,000 38,700 15,000	175,000 41,910 15,600	903·5 105·6 19·5	717·8 105·4 26·6
Geelong	11,400 6.100	11,950 6,000	30·6 16·7	28·6 15·6
Shepparton	1,663	_	0.8	
Hamilton—not connected to State system	1,488	1,382	5.8	5.2
Hydro Stations— Sugarloaf-Rubicon Kiewa	26,050 28,000	26,050 28,500	146·0 48·2	129·2 46·8
	Maximum Coin	cident Demand	Total	kWh
	497,370	504,090	2,518.5	2,362.8

The increased requirements were met principally by the Newport Power Station. Outputs from Hydro Stations increased because of more favourable weather conditions.

#### 25 Cycle

The maximum demand and output for the Newport "A" Power Station for the year was 77,400 kW and 193.2 million kWh respectively—for the period this station operated under the Commission's control (from 21st January, 1951) these figures were 59,800 kW and 87.0 million kWh respectively.

#### BRIQUETTE PRODUCTION AND DISTRIBUTION

				Tons
1930-31	 	 	 	 225,473
1935-36	 	 	 	 357,601
1940-41	 	 	 	 433,756
1945-46	 	 	 	 493,144
1950-51	 	 	 	 511,404

Production was 77,160 tons lower than last year due principally to the prolonged rail strike during October-December, 1950. By-product electricity amounted to 88.2 million kWh, of which 58.6 million kWh were delivered to the State system, the remainder being used at the factory.

Special attention has been given to dust extraction in all factories. A further improvement has been effected at the "C" Factory by the installation of new dust removal plant; similar installations are to be made at "A" and "B" Factories. For the boiler house, taller chimneys with latest equipment for the extraction of dust from flue gases are being manufactured. All of these measures when completed will do much to solve the dust problem at Yallourn.

Additional plant was installed for the handling and loading of brown coal dust for use in Victorian Railways locomotives.

#### Distribution.

Sales (exc	luding C	ommiss	sion Po	wer			
Stations							197,933 tons
Revenue						 	£520,052
Expenditu	re					 	£579,182
Loss .					·	 	£59,130

Because of lower production during October-December, 1950, the loss on operations (£59,130) is higher than the previous year (£18,546). Briquette prices were increased by 10/- per ton f.o.r. Yallourn as from 1st July, 1951, 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.

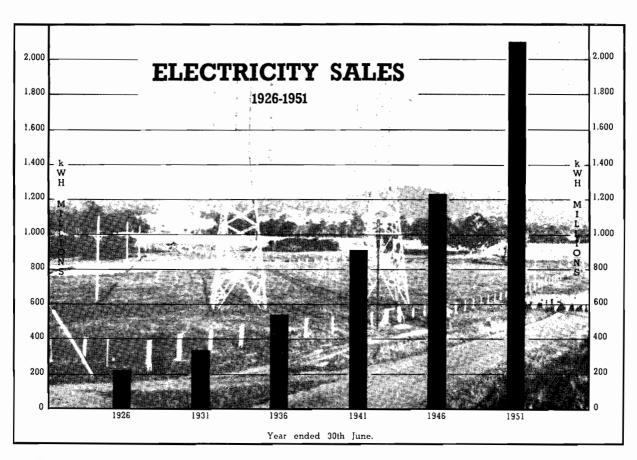
#### ELECTRICITY SUPPLY

#### ANALYSIS OF DEVELOPMENT.

Electricity sold to all consumers, including bulk supplies and—since the 21st January, 1951—electricity supplied to the Victorian Railways' traction system, totalled 2,101 million kWh. Excluding the 71 million kWh supplied to the Railways' system, sales for the year increased by 8 per cent. (150 million kWh), as compared with 9 per cent. (155 million kWh) during 1949-50, and 13.4 per cent. (204 million kWh) during 1948-49. The smaller increment this year reflects the heavier restrictions upon the use of electricity during the latter part of the year.

#### Annual Electricity Sales.

					kW]	h (millions)
1925-26			 	 		226.588
1930-31			 	 		379.925
1935-36			 	 		578.104
1940-41	•		 	 		924.773
1945-46			 	 		1,274.541
1950-51				• •		2,101.342
1000-01	• •	• •	 	 	• •	4,101.044



#### Domestic.

Total domestic sales increased by  $6.5\,$  per cent. and there were  $21,733\,$  new domestic consumers.

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

				onsumpti ic Consu	Increment
			-	kWh	kWh
1946-47	 	 		 1,015	 87
1947-48	 	 		 1,151	 136
1948-49	 	 		 1,370	 219
1949-50	 	 		 1,556	 186
19 <b>5</b> 0-51	 	 		 1,566	 10

The lower increment this year followed the restrictions and quotas introduced when overseas supplies of black coal ceased.

#### Commercial.

Prosperous trading conditions are reflected by increased sales (10.8 per cent.).

The steady increase in industrial sales has continued (8.7 per cent.). An additional 36,680 h.p. of motors was connected.

#### Mining.

Sales to this industry decreased by 3.9 per cent.; the number of mines supplied decreased from 47 to 42.

#### 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 sales by 8.7 per cent.

#### 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 £1,657,836 (22.6 per cent.) to £9,001,253.

Sales of Electricity increased by 178,234,460 kWh (14.1) per cent.) to 1,444,853,647 kWh.

Consumers increased by 24,677 (6.3 per cent.) to 415,682. Farms increased by 1,831 (11.6 per cent.) to 17,572.

Branch.		Number	Electricity					
	Area			Substations.		Distributio	Number	
	of Supply (Sq. Miles).	of Consumers.	Sold kWh (Millions).	No.	Capacity.	H.V. Route. Miles.	L.V. Route Miles.	of Farms Supplied.
Metropolitan	269 · 6 265 · 3 245 · 9 173 · 7 761 · 9 1,262 · 5 562 · 0 2,004 · 9 1,092 · 7	233,300 17,033 12,429 19,940 44,028 30,079 11,018 27,877 19,978	932·586 41·213 30·904 74·137 104·188 88·288 25·724 101·072 46·742	50 42 42 29 77 56 43 168 106	25,905 2,000 1,715 1,955 10,175 4,140 405 5,191 4,065	22.7 24.3 17.6 13.2 34.0 43.5 2.3 78.8 68.5	80·8 38·9 16·0 29·4 113·6 98·7 7·0 85·1 24·2	*1,258 787 469 671 3,087 4,387 834 3,224 2,855
TOTAL	6,638 • 5	415,682	1,444.854	613	55,551	304 · 9	493 · 7	17,572

<sup>\*</sup>Principally poultry farms and market gardens in the outer metropolitan area.

#### BRANCH TRANSMISSION AND DISTRIBUTION.

Reconstruction of the South Western Branch main transmission line to Warrnambool for 66 kV was completed; the Geelong-Terang section is operating at 66 kV, but the Terang-Warrnambool section is temporarily in service at 44 kV.

The Yallourn to Warragul 66 kV line, completed three years ago, is still operating at 22 kV. Equipment for the new Warragul main substation has now arrived, and this line will be operating at 66 kV about the end of 1951.

The duplication of the Benalla to Shepparton 66 kV line and the reconstruction of the Shepparton main substation is nearing completion.

In the year under review the following principal country extensions were completed or were nearing completion at the 30th June, 1951:—

Bendigo Branch -

Bullarook - Dean - Mollongghip; Springmount; Millbrook.

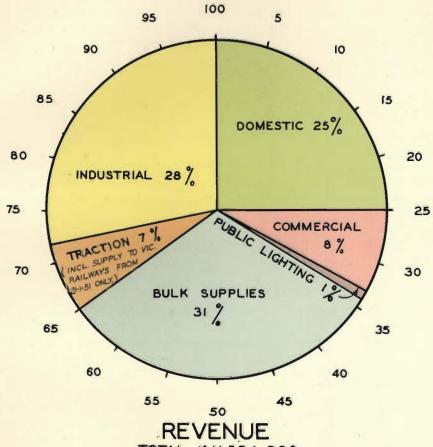
Dingee to the Calavil rural area; Burnewang South Soldier Settlement; Marong; Mitiamo.

Geelong Branch— Little River.

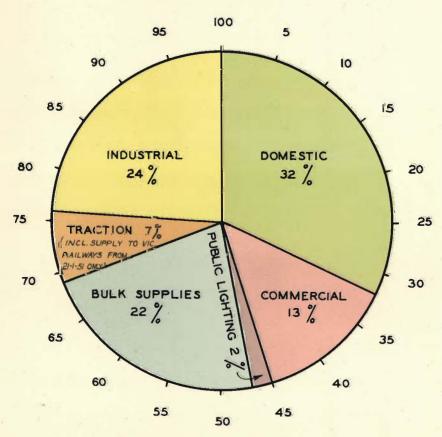
#### ELECTRICITY SALES AND REVENUE SUBDIVISIONS ACCORDING TO CLASSES OF CONSUMERS

YEAR ENDED 30 TH. JUNE. 1951

SALES TOTAL 2101.3 MILLION KWHS.



TOTAL £11,524,389



Eastern Metropolitan Branch-

Greensborough North and Greenhills; Clyde and Clyde North; Mooroolbark; Launching Place; Lyndhurst; Avonsleigh - Cockatoo - Gembrook; Wonga Park North; Woori Yallock.

Gippsland Branch—

Moe Estate (Housing Commission); Morwell Estate (Housing Commission); Newborough Housing Estate (S.E.C.); Traralgon Housing Estate (Australian Paper Mills); Auburn Vale Soldier Settlement, Won Wron; Pratt's Estate Soldier Settlement, Glengarry East.

Midland Branch—

South Harcourt; Guildford and Yapeen.

North Eastern Branch—

Buffalo River; Moyhu; Yarroweyah Soldier Settlement; Tongala West; Porepunkah; Glenrowan; Murray Valley Soldier Settlement; Strathmerton (Stage 1); Wyuna; Eildon Dam and Township.

South Western Branch-

Timboon; Marida Yallock Soldier Settlement (Stage 2); Tarrington and Tabor area; Grassmere; Dreeite area; Minhamite area; Mt. William Road, Willaura.

#### ACQUISITION OF UNDERTAKINGS.

The Mitiamo undertaking was acquired on the 19th March, 1951.

#### TRAMWAYS—BALLABAT. BENDIGO AND GEELONG

Revenue: £175,063. Loss: £162,448.

A loss of £162,448 was sustained in the operation of the three tramway systems, compared with a loss of £125,989 last year. Losses at Ballarat, Bendigo and Geelong were £45,050, £47,739 and £69,659 respectively.

Total revenue, £175,063, increased by £3,559 (2.1 per cent.) due to increased fares; actually 3.3 per cent. fewer passengers were carried. Total expenditure — £337,511 — increased by £40,018 (13.5 per cent.) because of the continued upward trend in wages and cost of materials.

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### YALLOURN TERRITORY

**Population.** —12,120, of whom 4,859 are resident in the Town of Yallourn.

**Housing.**—As mentioned in previous reports, the Town of Yallourn has reached its maximum development—there are now 1,050 residences.

At Moe, contracts have been let by the Housing Commission for 1,041 houses, 739 of which have been completed. At 30th June, 1951, 507 of these houses were occupied by Yallourn employees.

Of the 700 English pre-cut houses being erected at Newborough and 350 houses at Yallourn North, 384 and 152 respectively were completed at the 30th June.

**Hostels and Accommodation for Single Men.** —Further progress has been made in providing accommodation for single men. At the Western Hostel there is provision for 1,510 men, at Yallourn North 713, and at the Eastern Hostel 579—a total of 2,802 and an overall increase of 537 for the year.

**Sewerage of the Town.**—The construction of reticulation sewers is proceeding as rapidly as resources will permit; at the 30th June, 308 houses and 25 public buildings had been connected.

**Hospital and Medical Services.**—The management of the Yallourn Hospital is to be transferred by agreement from the Yallourn Medical and Hospital Society to the Victorian Hospitals and Charities Commission.

During the year extensions for 16 additional beds were completed, bringing the total accommodation, before handing over to the Hospital and Charities Commission, to 60 beds (emergency capacity 75). The average daily number occupied was 41 compared with 33 last year.

The Hospital and Charities Commission is extending the hospital to increase its capacity to 140 beds.

**Shopping Facilities.**—To serve the new housing settlements at Yallourn North and Newborough, shop sites are being leased to traders for the erection by them of premises suitable for their business.

**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 is nearing completion and the new marshalling yards at Yallourn are in operation.

Yallourn Town Advisory Council. —During the year Mr. T. Forristal was reappointed Chairman for a further three years. Mr. P. J. C. Harry was appointed as a nominee of the Commission to replace Brigadier J. Field (who resigned on his appointment as General Superintendent, Yallourn). At the annual election Mr. F. Harries was successful; he replaced Mr. P. Moncur, who did not seek re-election.

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### PERSONNEL.

Total Personne Staff Wages	el. 	 	 30/6/51 6,205 15,972	 30/6/50 5,107 13,152
			22,177	 18,259

Wages employees at 30th June, 1951:—

Location of Wages Personnel	Operation.	Construction
Power Generation Main Transmission Lines, Terminal and Substations Electricity Supply—Metropolitan Branch distribution Electricity Supply—Country Branch distribution Briquette Production and distribution Coal Winning—Yallourn General Services, Town & Workshops, Yallourn General Services, Workshops, elsewhere Tramways, Ballarat, Bendigo, Geelong	 1,568 368 350 579 463 1,252 1,580 1,697 290	3,750 742 107 687 1,051 1,220 268
TOTAL	 8,147	7,825
Grand Total .	 15	3,972

Labour turnover during the year was still abnormal; nevertheless it has been possible to increase total personnel by 3,918. 486 British and 561 Continental Migrants were engaged. Of the total employed, 1,212 are "New Australians" located principally at Yallourn and in the metropolitan area.

### Education and Training.

For the year under review, 34 Commission trainees were engaged on full-time studies at the University or Technical Colleges, and 169 trainees were pursuing part-time courses.

Within the Commission 14 graduates, 48 cadets and 78 probationary cadets are receiving special training; 223 men completed the course at the Training School for Linesmen; there are 339 apprentices, principally in the engineering trades, and 39 trainee tradesmen employed under the Commonwealth Rehabilitation Scheme. Special training courses for draftsmen and survey assistants are being held.

Those engaged in all these training plans have made excellent progress: 7 qualified for University degrees and 6 received diplomas.

### Scholarships.

During the year the Commission awarded three scholarships for University courses in Engineering and three scholarships for Technical School Diploma courses—there are now 14 scholarships current.

### Welfare and Amenities.

The Yarraville hostel for single migrants was completed during the year.

Recreation buildings and facilities are provided at all main hostels. Welfare services at Yallourn and Kiewa are in the hands of the Y.M.C.A. and are much appreciated by the personnel.

### Safety.

Safety and accident-prevention measures are centred 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.

### PUBLIC SAFETY AND OTHER REGULATORY RESPONSIBILITIES

### Electric Light and Power Act 1928.

At the close of the financial year 43 municipal electricity supply undertakings and 22 owned by companies or persons were operating 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
266	Portland Town Council	Town of Portland (renewal)
267	Port Campbell Electric Supply Co. Pty. Ltd.	Township of Port Campbell
268	Heidelberg City Council	Supply to brickworks in Shire of Doncaster
269	Boort Co-operative Butter and Ice Co. Ltd.	Township of Boort (renewal)
270	Ararat Town Council	Supply to brickworks outside area of supply

### (b) Revoking Orders in Council.

Order No.	Undertaker	Area of Supply	Reason
250	C. W. Sims	Township of Mitiamo	Undertaking transferred to State ownership 19th March, 1951

Order No. 260 (Township of Walwa) was transferred from Mrs. B. R. McCausland to Messrs. J. H. Ferris and A. J. Thomson.

Extensions (totalling 1,182 kW) to generating plants at Ararat, Nhill, Pyramid Hill, Wedderburn and Woomelang were approved.

Inspections were made of 30 electricity supply undertakings in addition to newly installed generating plants and high voltage systems; complaints of unsatisfactory service also were investigated.

### Licensing of Electrical Mechanics.

Licenses in force as at 30th June, 1951—Grade "A", 3,252; Grade "B1", 160; Grade "B", 805; Grade "C", 884.

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

Special conditional permits were issued—1,225 for periods not exceeding six months, and 559 for periods not exceeding twelve months.

### Registration of Electrical Contractors.

At 30th June, 1951, 1,111 registrations were in force, 119 more than last year.

### Electrical Approvals Board.

Under the Board's constitution two of its members retire each year. Mr. C. F. Baker and Mr. W. H. Stock representing the interests of workers in the electrical trade and fire underwriters respectively were re-appointed for a further three years.

### Electrolysis Mitigation.

The Technical Sub-Committee has continued its work of investigating conditions and instituting remedial measures. Faults on water mains (58) were almost half those occurring during the previous year but there was an increase from 24 to 41 in the number of faults on telephone cables.

The Electrolysis Committee has appointed Mr. G. T. Cuthbert, Chief Electrical Inspector, Victoria, as Chairman of the Technical Sub-Committee.

### COMMISSIONERS

It is recorded with pleasure that His Majesty the King, in the 1951 New Year's Honours, created Commissioner Andrew W. Fairley, C.M.G., a Knight Commander of the Order of the British Empire.

### RETIREMENT OF MANAGER (Mr. R. LIDDELOW)

Mr. R. Liddelow, Manager, retired on the 30th April, 1951, after 32 years' service with the Commission as Secretary, Commercial Manager and—since 1931—Manager.

On the occasion of his retirement the Commission recorded the following  $\operatorname{Minute:}$ 

"The Commission places on record its high appreciation of the valuable services rendered by Mr. Liddelow during his 32 years' association with the Commission. Appointed Secretary to the Electricity Commissioners on the 1st May, 1919, Mr. Liddelow became the first officer of the Commission, and as such was closely associated, first with Professor Sir Thomas Lyle, and later General Sir John Monash, in the establishment of the Commission's undertaking and its early development. On the 21st November, 1928, he was appointed Commercial Manager, in which post he was responsible for the supervision and administration of the Commission's financial and commercial affairs throughout its entire services.

"In 1931, following the death of Sir John Monash, the Commission created the post of Manager and, as from 9th December, 1931, Mr. Liddelow was selected to fill that position, which he held until his retirement. In this capacity he had full Managerial responsibility for all activities with which the Commission was concerned and full responsibility for the organisation and direction of the executive agencies necessary for the general administration of the Commission's affairs.

"In 1927, conjointly with the Internal Auditor, Mr. Liddelow was sent abroad to inquire into the management of electrical undertakings, brown coal workings and the manufacture and sale of briquettes. It was as a result of this mission that the present procedures governing the control of capital and operating expenditure were established. In 1934, Mr. Liddelow went to England to negotiate overseas loans particularly related to the acquisition of the undertakings of the Melbourne Electric Supply Co. Ltd. and the Electric Supply Company of Victoria.

"During his term of office Mr. Liddelow has seen the Commission expand into the largest electricity authority in Australia, supplying 545,000 consumers throughout Victoria by means of its co-ordinated generation and transmission system and employing a total personnel of over 21,000. In the development of this undertaking, with its related large-scale coal winning and briquetting activities, Mr. Liddelow has applied himself zealously and conscientiously. He shared fully the early vision of the first Commissioners and foresaw clearly the growth and expanding benefits of the State system, with every phase of which he has been directly identified. The progress and financial stability achieved over the years are a direct tribute to his planning and administration, in which the Commission counts itself fortunate to have had the benefit of his experience and advice. His friendly but firm administration, coupled with human qualities of character, earned for him the high regard and warm esteem of all those officers who were privileged to work with him, and it is the sincere wish of Commissioners and staff that Mr. Liddelow will long be spared to enjoy a full measure of health and happiness in his retirement."

Mr. Liddelow will continue to serve the Commission as Consultant.

### STAFF

The Commission records with regret the death of four of its valued senior officers:—

- Mr. J. H. Nesbit, F.C.I.S., Office Manager, Bendigo Branch, Electricity Supply Department, died on the 27th March, 1951. Mr. Nesbit joined the Electric Supply Co. of Victoria in 1904 and transferred to the Commission when that undertaking was acquired in 1934.
- Mr. H. N. Hornabrook, A.M.I.E., Aust., Manager, Geelong Branch, Electricity Supply Department, died on the 23rd July, 1951, after having served the Commission for 28 years.
- Mr. E. G. Chisholm, Chief Clerk, Yallourn, died on the 31st August, 1951. Mr. Chisholm joined the Melbourne Electric Supply Co. Ltd. in 1923 and transferred to the Commission when that undertaking was acquired in 1930.
- Mr. H. A. E. Rutherford, B.Com., F.I.C.A., F.C.A.A., a member of the Commission's Staff Board, died on the 13th September, 1951. Mr. Rutherford joined the Melbourne Electric Supply Co. Ltd. in 1912 and transferred to the Commission when that undertaking was acquired in 1930.

### Retirements.

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

- Mr. C. H. Kernot, M.I.E. Aust., M.Am.Soc.C.E., Chief Engineer, who retired on the 31st December, 1950, after thirty years' service with the Commission. Mr. Kernot continues to serve the Commission in a consultant capacity.
- Mr. W. Morrison, B.Sc. (Eng.), M.Inst.C.E., A.M.I.E. London, General Superintendent, Yallourn, who retired on the 28th March, 1951, after 29 years' service.

### Higher Organisation and Principal Appointments.

The Commission has reviewed its higher organisation following the retirement of Mr. R. Liddelow.

The chief executive office of the Commission—General Manager—is held by the Chairman, Mr. R. A. Hunt, D.S.O., B.C.E., M.I.E. Aust., and the managerial work is now concentrated within the group comprising the General Manager, Assistant General Manager, and Commercial Manager. The organisation broadly embraces the two main fields of activity—engineering and commercial.

The Assistant General Manager is responsible to the General Manager for the management and co-ordination of all engineering activities of the Commission (the post of Chief Engineer has been discontinued).

The Commercial Manager is responsible to the General Manager for the management and co-ordination of all commercial and administrative activities.

As from the 1st February, 1951:—

- Mr. W. H. Connolly, B.E.E., B.Com., A.M.I.E. Aust., was appointed Assistant General Manager. At the time of his appointment, Mr. Connolly was Assistant to the General Manager, and previously Engineer and Manager, Electricity Supply Department, having served the Commission since 1921.
- Mr. W. J. Price, Dip. Com., F.C.I.S., was appointed Commercial Manager. Mr. Price was previously Secretary, having served the Commission since 1920. Before taking up his new post, Mr. Price visited Great Britain, North America and the Continent to study the latest developments in commercial management, organisation and administration practices of large scale electricity undertakings.

Other senior appointments during the year were:—

- Brigadier J. Field, C.B.E., D.S.O., E.D., B.C.E., A.M.I.E. Aust., M.Am.Soc.M.E. General Superintendent, Yallourn, as from 29th March, 1951. Brigadier Field previously was Assistant General Superintendent, Yallourn, having served the Commission since 1946.
- Mr. A. R. Shepley, B.Sc., B.E., M.I.E. Aust., joined the Commission's staff as General Superintendent, Morwell, on the 14th May, 1951.
- Mr. D. H. Munro, B.Com.—Secretary, as from 1st February, 1951. Mr. Munro was previously Assistant Secretary, having transferred to the Commission in 1930 from the Melbourne Electric Supply Co. Ltd., which he joined in 1916.

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The vast programme of new works and the planning and execution of future power and fuel developments referred to in this report have again made exacting demands upon the Commission's personnel. It is with real pleasure that Commissioners again place on record their appreciation of the splendid contribution rendered to the community during the year under review, through the loyal and efficient services of personnel in all sections of the undertaking.

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.

D. H. MUNRO,
Secretary,
23rd November, 1951.

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## PROFIT AND LOSS ACCOUNT. BALANCE SHEET AND FINANCIAL STATISTICS.

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STATE ELECTRICITY COMMISSION OF VICTORIA.

# GENERAL PROFIT AND LOSS ACCOUNT FOR YEAR ENDED 30th JUNE, 1951.

(Adjusted to the nearest £.)

¥	11,524,389	52 <b>0,</b> 052	203,418	175,063 26,269 5,307 —	098,1	1,860
£ 3,484,241	480,05 <b>7</b> 103,656	583,713	203,418	:::	: ::	::
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Actricty Supply— Domestic—General Domestic—General Commercial Industrial—General Industrial—General Industrial—Farms Traction Bulk Supplies Miscellaneous	Briquetting Briquette Sales Add—Briquettes on hand at end of year	Deduct—Briquettes on hand at beginning of year own Coal	Brown Coal Sales  Traffic Receipts Advertising, etc.	General— Investments Income Miscellaneous Income Loss—carried down	Profit—brought downrafer in part of amount previously Trasfer in part of amount previously Rate Stabilisation Reserve	Surplus for year  Accumulated Surplus beginning of year  49-50 are not comparable with those of inking Fund Contributions— in Re  Re  Re
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Ection Donates	<b>Brigu</b> Bri Add	Brown	Bro Tramy Add	General- Investme Miscellar Loss—ca	Profit Trans Rate Defici	Surplus Surplus Surplus Sor 1949-50 at Sor 1949-50 at Sor 1950-51 (316,161 (19,032)
1950 1950 1950 1950 1,311,004 1,537,005 1,537,005 1,539 195,492 195,492 195,492 195,493 2,099,332 9,296	9.446,008 413,471 63,661	477,132 40,270 436,862	244,100 244,100 170,906	27,200 12,983 349,368	100,000 249,368 349,368	.0 0 0
7	11,182,449	579,182	197,417	337,511 156,0 <b>79</b> 1,860 1,454,498	098,1	• Owing to an alteration in the method of allocating expenditure, figur § The following amounts have been included in the Depreciation 1949-50 Blectricity Supply (203.978 Briquetting (213.182)
£ 644.286 7,778.207 1,389.552 415.151 672.124 195.885 42.753 174,880 11,313.238	1,274,529 90,647 37,913 43,510 23,587 2,591 67,953	1,540,730 961,548 19,488 19,488 7,683	292,519 5,512 33,208		: :	nod of allocatincluded in t
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Electricity Supply— Purchased Electricity Purchased Electricity Purchased Electricity Interest Administration and Sinking Eund Employees' Facilities and Welfare Expense Loan Flotation Expense Accommodation and Miscellaneous Services Accommodation transferred to Works  Deduct—Electricity transferred to Works	iquetting— Manufacture and Distribution Interest Depreciation and Sinking Fund§ Employees' Facilities and Welfare Expense Loan Flotation Expense Accommodation and Miscellancous Services Accommodation and Miscellancous Services	Deduct—Briquettes transferred to Works .  own Coal Winning and Distribution Depreciation Administration and General Expenses Employees' Facilities and Welfare Expenses Loan Flotation Expense	Accommodation and Miscellaneous Services  Deduct—Brown Coal transferred to Works  anways— Power and Traffic Expenses	Central— Micelaneous Expenses Profit—Carried down	Loss—brought down Surpius for year	Surplus
ricity S hased I have been also has	ufactur- est reciatio inistra- loyees' Flotat	Deduct—Brig own Coal Winning and Interest Depreciation Depreciation Employees F.	ommod rct—Br ays— er and est and rest	Dyecs aneous -Carrie	Loss—brought d Surpius for year	for yes
Expenditure— Electricity 5 Electricity 5 Purchased Generation Interest Depreciation Administrate Employees' Loan Flotatt Accommod Accommod Deduct—Ele	Briquetting— Manufacture and Distribution Interest Depreciation and Sinking Fund Administration and General Employees Facilities and Welf Commodation and Miscellan Accommodation and Miscellan	Brown Coal Winning Interest Depreciat Administ Employee	Deduct—I Tramways— Power an Interest Administ	General Miscelia Profit—	Loss—. Surplu	Deficit for year Accumulated Surplus—30th June
1950. E 6.096.534 6.096.534 404.104 829,468 99.376.517 91.962	9,284,555 1,123,218 89,074 37,899 50,237	1,300,428 1845,020 455,408 526,917 1,810 15,518	563,287 344,812 218,475 240,442 7,526 49,525	432,094	349,368	

Revenue. £445,134 £527,177

Sale of Electrical Appliances.—The operating accounts include in respect of this function { 1949-50

## STATE ELECTRICITY COMMISSION OF VICTORIA. GENERAL BALANCE SHEET AS AT 30th JUNE, 1951.

(Adjusted to the nearest £.)

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J			93,096,608	12,160,329	3,773,401		824,828	991,258,001
£,233,142 6,000,134 191,631 17,319,927	989, 768 6,332,873 4,833,025 5,316,830 16,216,618 145,238 30,672,690	93,251,881	149,082 2,071,204 7,498,305 19,855 16,89,144 26,215 38,451 62,4001 55,072	2.461,575 150,277 446,720 <b>570,13</b> 2		89,481 735,347		601
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coal Production  Diquette Production  Briquette Production  Power Production  Power Production—Thermal Stations, (Steam)	Dower Production—Thermal Station Power Production—Hydro Stations Transmission System Terminal Transformation System Distribution System Transwys Transwys General		rrent and Accrued Assets— Cash Receivable Accounts Receivable Materials and Supplies Working Funds Advances Accounts in hands of Agent-General Investments	Spense Debits—  Overburden Removal and Disposal . Preliminary Investigations  Mannorised Loan Flotation Expense  Vork in Progress  Acquisitions	rreignt puspense Miscellaneous	serve Funds— Sinking Funds ••••••••••••••••••••••••••••••••••••		
Fixed Capital— Coal Produc Briquette Pl Briquette St Power Prod	Power Pro Power Pro Transmissi Terminal 1 Distributic Tranways General	Deduct	Current and Accrued Assets— Cash Receivable Materials and Supplies Working Funds Advances Accounts in hands of Ager investments Accrued Revenucs Accrued Revenucs	Suspense Debits- Overburden R Preliminary In Unamoritised I Work in Prog Acquisitions	Misce	Reserve Funds— Sinking Funds Contingency 3		
	655 221 1 <b>3</b> 5 780 082 71 <b>9</b>	<u>%</u> 2  }			210	R 144,208 250,833	395,041	488
3,249,725 2,776,242 204,501 11,391,744	82,655 4,113,221 3,864,135 4,410,780 13,756,082 138,719	61,508,104	61,358,803 74,125 1,287,695 5,342,903 1,053,028 1,053,02	1,540,228 139,302 331,764 339,755 25,000	2,448,210	144 2 <b>5</b> 0	395	72,687,488
				343	165,644		,612 ,524	99
*	con		83,647,043	6,580,343	165		19,308,612	09,855.166
£ 19,835,445 2,778,288 17,057,157	66,581,549	8,337	1,728,739 1,147,738 23,368 161,063 167,437 564,560 45,600 45,600 48,600 48,600 48,600 48,600 48,600 48,600 48,600 118,864 118,874	162,441		17,050,236 735,347 1,200,000 323,029	:	
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Apptial Labilities. Victorian Government Advances Deduct—Redeemed or cancelled securities	Debentures and Inscribed Stock Issued by Commission (See Appendix No. 4) Deduct—Redeemed or cancelled securities	Issued by Undertakings acquired by Commission (See Appendix No. 4)	Current and Accrued Liabilities Accounts Payable (Acquisition Newport "A") Accounts Payable Consumers' Deposits Consumers' Deposits Service Charges received in advance Unclaimed Salaries and Wages Other Deposits and Trust Proneys Interest Accrued Vorkers' Compensation Insurance Accrued Feight Accrued Workers' Compensation Insurance Accrued Miscellaneous Bank Overdraft	Suspense Credits— Consumers' Advances for Construction Miscellaneous	and to be repayable in Sterring. 30th June, 1951 £6,634,508 30th June, 1950 £6,633,166 § These totals include the undermentioned amounts raised in London and repayable in Sterling	ciatio	Profit and Loss Account	
შ>̄		12,091 Issued by Undertakings acq	3		ເກ	æ	Profit and Loss Acc	
შ>̄	wn		3	2.397,027 Suspense Credits— Consumers' Advances for Miscellancous Miscellancous Of these totals the under	and to be repayable 30th lune, I 30th lune, I 168,306 Sterling— Sterling—	Beserves—30th June, 15,925,004 Contingency and Observed 15,2391 Contingency and Observed 1,200,000 General Development		

W. J. PRICE, Commercial Manager 19th November, 1951. There are Contingent Assets and Liabilities in respect of securities lodged as bona fides under Contracts amounting to \{\frac{L2.062.289}{L1.054.033}\) at 30th June, 1950\} held by the Bank on the Commission's behalf. H. S. KILFOYLE, Chief Accountant.

## AUDITOR-GENERAL'S CERTIFICATE.

The accounts of the State Electricity Commission of Victoria have been audited for the year ended 30th June, 1951. Owing to alterations in the method of allocation of charges as between operating and capital accounts the net financial result in this year is not comparable with those of previous years. Subject to this explanation, in my opinion, the Balance Sheet presents a correct view of the affairs of the undertaking at the 30th June, 1951, and the Profig and Loss Account properly summarizes the operation of the Commission for the Year.

E, A. PEVERILL, Auditor:General. 29th November, 1951.

### APPENDIX No. 3.

### STATE ELECTRICITY COMMISSION OF VICTORIA.

### SCHEDULE OF FIXED CAPITAL AS AT 30th JUNE, 1951.

(Adjusted to the nearest  $\ell$ )

										Expenditure during 1950/51.	Total Expenditure 30/6/51.
Coal Production										£	£
										1,170,492 860,594	1,555,764 3,677,378
Briquette Production											
Morwell Branch Yallourn Branch				• •		::	• •			3,033,839 190,049	3,775,667 2,224,467
Briquette Storage & Dis	tributi	on								40,473	191,631
Power Production—Ther	mal St	ation	s (Stea	ım)							
Ballarat		. ,								128,494	128,494
Geelong	• •			• •		• •				333,756 2,357,144	624,762
Newport Richmond										1,048,107	7,633,399 1,578,131
Yallourn										2,036,096	7,355,141
Power Production—The	rmal S	tation	s (Inte	ernal C	omhue	tion\					
Hamilton	, .			ernai C						27,776	142,232
Shepparton										473,567	479,969
Warrnambool	• •	• •				• •				363,728	367,567
Power Production—Hyd	lro Sta	tions									
Kiewa Sugarloaf—Rubicor	 Area	• •								2,249,809 1,496	5,638,689 694,18 <b>4</b>
Transmission System										1,070,302	4,833,025
-											
Terminal Transformatio	n Syste	em								996,179	5,316,830
Distribution System											
Ballarat Branch	• •									76,559	546,947
Bendigo Branch Eastern Metropolit	 an Bra	nch								92,080 485,171	446,317 2,090,653
										94,373	608,804
Gippsland Branch										356,496	1,854,074
Metropolitan Brand Midland Branch		• •	• •		• •		• •			675,021 122,337	6,413,884 621,990
North Eastern Bra	 nch	• •								339,622	2,033,723
SouthWestern Bra									- ::	250,835	1,536,879
Yallourn Branch										12,068	63,347
Tramways											
Ballarat Branch					٠.					2,524	18,821
Bendigo Branch Geelong Branch										1,680 2,886	19,491 106,926
· ·			. ,							2,223	133,120
General  Ballarat Branch										9,894	49,748
Banarat Branch Bendigo Branch	• •									17,088	71,190
Eastern Metropoli		ınch								18,243	111,986
Geelong Branch	• •		• •							7,329 28,430	80,672 113,203
Gippsland Branch Kiewa Branch				• • •						5,076,873	113,203
Metropolitan Bran	ch	• •		• •						148,493	1,027,706
Midland Branch						• :				8,400	36,381
Morwell Branch North Eastern Bra	nch	• •						• •		2,229,492 12,689	3,209,769 80,965
South Western Br								• • •		11,200	81,014
Yallourn Branch Head Office										3,884,522 2,008,494	9,058,823 5,195,324
ricad Office					• •			• • •			_
Deduct Proportion of	cost o	f exte	ensions	payah	le by C	Consum	ers			32,354,700 5,972	93,251,881
, opoi (1011 01	-500			F = 7 G = 0					. ,		-
											£93,096,608

### STATE ELECTRICITY COMMISSION OF VICTORIA.

### DEBENTURES AND INSCRIBED STOCK—CURRENT AS AT 30th JUNE, 1951.

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

State Electricity Con					Authorized.	Amount Subscribed.	Rate.	Term.	Due.	Sinking Fund.	Amount Redeemed.	Outstanding as at 30th June, 1951.
	nmissio	on of V	'ictoria	a—	£	£	%	Years.		%	£ s. d.	£ s. d.
Loan No. 1 Loan No. 2 Loan No. 7 Loan No. 19 Loan No. 10 Loan No. 11 Loan No. 11 Loan No. 11 Loan No. 13 Loan No. 14 Loan No. 15 Loan No. 16 Loan No. 16 Loan No. 17 Loan No. 18 Loan No. 19 Loan No. 20 Loan No. 21 Loan No. 22 Loan No. 22 Loan No. 22 Loan No. 22 Loan No. 25 Loan No. 25 Loan No. 26 Loan No. 30 Loan No. 37 Loan No. 39 Loan No. 40 Loan No. 37 Loan No. 40 Loan No. 41 Loan No. 42 Loan No. 40 Loan No. 47 Loan No. 49 Loan No. 56 Loan No. 57 Loan No. 56 Loan No. 57 Loan No. 57 Loan No. 57 Loan No. 59 Loan No. 59 Loan No. 66 Loan No. 66 Loan No. 67 Loan No. 77 Loan No. 78 Loan No.			ictoria		6 600,000 382,000 150,000 1,000,000 1,000,000 1,000,000 1,000,000	\$\subscribed.\$ \$\left(\frac{6}{6}\) 0,000 \\ 382,000 \\ 150,000 \\ 300,000 \\ 150,000 \\ 500,000 \\ 1,000 \\	% 3.5 3.4375 3.4375 3.3125	Years.  20 20 15 16 10 10 10 10 10 10 10 10 10 10 10 10 10	1954 1954 1955 1955 1955 1955 1956 1957 1957 1962 1963 1958 1958 1958 1958 1958 1958 1959 1961 1959 1961 1959 1964 1959 1965 1965 1965 1960 1965 1965 1966 1965 1966 1965 1966 1965 1966 1965 1966 1965 1966 1965 1966 1966	Eud	Redeemed.	30th June, 1951.
Loan No. 80 Loan No. 81 Loan No. 82 Loan No. 83 Loan No. 84 Loan No. 86 Loan No. 87					500,000 100,000 200,000 1,500,000 150,000 25,000 118,850	500,000 100,000 200,000 1,500,000 136,850 25,000 72,850	3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 5.5	10 2 10 10 10 10 10	1961 1961 1961 1961 1961 1961	·5 ·5 ·5 ·5 ·5 ·5 ·5 ·5 ·5		200,000 0 0 500,000 0 0 100,000 0 0 200,000 0 0 1,500,000 0 0 136,850 0 0 25,000 0 0 72,850 0 0

### 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, 1951.
Bendigo.				%	%	£		£ s. d.	£ s. d.	£ s. d.
Marong Shire Eaglehawk Borough Eastern Metropolitan		::	2 9	5₹ 3₹	5 33	1,700 4,500	1.7.31 1.10.35	1,591 17 11 4,345 9 8	1,029 3 5 3,299 0 9	562 I4 6 I,046 8 II
Healesville Shire	·• 		9	53	5	3,000	1.4.33	2,728 11 2	1,745 9 11	983 I 3
Gippsland. Maffra Shire Midland.			1	48	4≵	6,500	1.9.24	5,660 0 11	5,138 5 9	521 15 2
Kyneton Shire Newham and Woodend Shire North Eastern.		::	3 2	5 <del>≹</del> 5	37 5	12,000 750	1.10.28 1.8.29	10,830 0 0 750 0 0	9,915 0 <b>0</b> 300 0 <b>0</b>	915 0 0 450 0 0
Towong Shire		::	1 8 9 3 4 8	4 <u>1</u> 66 64 54 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4½ 4½ 5 5 33	6,500 6,500 1,500 6,000 300 1,200	1.11.40 12.3.27 1.5.45	4,565 0 0 6,078 12 8 1,412 2 5 3,390 19 7 292 19 3 836 0 0	3,356   2 6 5,838   6   10 1,358   6 9 1,667   1 5 129 2 5 367 0 0	1,208 7 6 239 15 10 53 5 8 1,723 8 2 163 16 10 469 0 0
	T01	AL				£50,650		£42,481 13 7	£34,144 19 9	£8,336 13 10

STATE ELECTRICITY COMMISSION OF VICTORIA.

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	>	7	-				Capital.				Revenue.			Operating Expenditure	-T-	+ Surplus.	– Deficit,	cit.
	Year	ended 3	Year ended 30th June.	,		Capital Expenditure.	Loan Liability.	Reserves.	Electricity Supply.	Briquetting.	Tramways.	Miscellaneous.	Total.	including Writings Off, &c.	, »	Year.	101	To Date.
1925 1926 <b>1927</b>	:::	:::	:::	:::	:::	£ 7,759,825 9,032,464 10,742,104	£ 8,293,765  0,120,794  1,849,698	£ 43,936 67,616 262,942	£ 617,286 713,252 <b>975,362</b>	£ 40,468 122,379 1 <b>79,184</b>	ભ : : :	£ 41,602 19,476 <b>16,124</b>	£ 699,356 855,107 1,1 <b>70,670</b>	£ 963,638 1,125,077 <b>1,367,324</b>		£ 264,282 269,970 196,654		£ 322,744 592,714 <b>789,368</b>
1928 1929 <b>1930</b>	:::	:::	:::	:::	:::	12,762,939 14,530,684 <b>16,397,608</b>	13,567,546 15,126,107 <b>16,778,413</b>	493,935 833,618 <b>1,151,139</b>	1,262,787 1,427,751 <b>1,624,255</b>	192,256 226,186 <b>264,459</b>	:::	10,698 7,858 <b>9,153</b>	1,465,741 1,661,795 <b>1,897,867</b>	1,463,868 1,657,181 <b>1,892,601</b>	+++	1,873 4,614 <b>5,266</b>	++1	787,495 782,881 <b>777,615</b>
1861	:	:	:	:	:	18,553,592	19,286,428	1,593,462	2,234,756	276,930	30,971	2,236	2,544,893	2,562,846	t	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	ı	792,537
1933	:	:	:	:	:	19,667,259	19,668,146	2,823,912	2,577,547	313,435	34,180	46	2,925,259	2,921,830	+	3,429	i	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	1	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	I	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	1	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	+	106'88	I	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	ļ	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	1	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	1	381,640
1941	:	:	:	:	:	26,116,795	20,678,339	8,218,078	4,241,264	379,847	12,68	13,374	4,724,056	4,563,376	+	160,680	1	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	1	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	4-	727,621
1945	:	:	:	:	:	31,297,130	20,997,826	12,902,334	5,259,881	329,428	146,605	63,247	191,661,5	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	6'310'106	+	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	177,722	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	- 5	249,368‡	+	151,664
1951	:	:	:	:	-:	93,096,608	83,647,043	19,308,612	11,524,389	520,052	175,063	234,994	12,454,498	12,452,638	+	1,860	+	153,524
						* After trans	* After transfers of £243,000 from Reserves.	m Reserves.	† After transf	† After transfers of £103,000 from Reserves.	Reserves.	‡ After transfer of	‡ After transfer of £100,000 from Reserves.	rves.				

### STATISTICS. POWER PRODUCTION.

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### GENERATION OF ELECTRICITY.

### State of Victoria. All Supply Authorities.

Authorit	y.	State Electricity Commission	Melbourne City Council.	Victo	rian State Rai	ilways.		e Electric Co. Ltd.	Electric S of Victo	upply Co. oria Ltd.	Local Authorities.	
Stations		See Appendix No. 7.	Spencer- street, Melbourne.	1	Newport ''A		Richmond.	Geelong.	Ballarat.	Bendigo.	Country Centres not Served	Total kWh, Generated State or Victoria
Year.		kWh.	kWh.	k'	Wh. (million	s).	kWh.	kWh.	kWh.	kWh.	by State Generating System.	(millions).
rear.		(millions).	(millions).	(1).	(2).	Total.	(millions).	(millions).	(millions).	(millions).	kWh. (millions).	
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	Sta		cquired by ty Commis		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
193738		836 · I	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	17.9	163 · 4	181 - 3					21.0	1,532.8
1942–43		1,455.4	now op- erated as	14.6	151-5	166-1					22.0	1,643.5
1943–44		1,475.6	part of State	15-2	153 · 8	169.0					24.0	1,668.6
194445		1,502 · 3	system.	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
1950-51		2,605 · 5*		18.9	87 · 3	106.2					52.0	2,763 · 7
					on acquire etricity Co 21.1.51							

<sup>(1) 25</sup> cycle supplied to other authorities. (2) 25 cycle Railway purposes.

\*Includes 25 cycle (Newport "A") from 21.1.51—87.0 million kWh.

GENERATION OF ELECTRICITY.
State Electricity Commission of Victoria.

Y			Newport	port.		i													
- 1		"A" (25	Cycle)	"B" & "C"	(50 Cycle)	Kichmond	ond.	Geelong	ong.	Ballarat and Bendigo.	Bendigo.	Spencer Street.	Street.	Sugarloaf-Rubicon,	Rubicon.	Kiewa.	wa.	All Stations.	ions.
	M.D. kW.	kWh.	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		Station acquired 21.1.51	on red 51	Operation commenced 12.10.23	ation enced .23	Station acquired and reconditioned Restarted 6.5.29	acquired nditioned. arted 5.29	Station acquired 1.9.30	ired 30	Stations acquired 1.7.34 Bendigo closed down 31.12.37	cquired 34 closed .12.37	Station operated as part of State system from 1.1.41	perated of State from 41	Operation commenced 14.3.28	ition inced 28	Operation commenced 1.9.44	ation enced .44		
	29,000 37,500 <b>61,000</b>	:::	:::	53.4 46.0 <b>45.4</b>	15,800	:::	:::	:::	:::	:::	:::	: : :	:::	:::	:::	:::	:::	101.8	40,500 50,000 <b>76,000</b>
	68,500 64,000 <b>62,500</b>	:::	: : :	54.3 49.0 <b>50.8</b>	20,800 20,000 21,000	3.5	15,000	:::	: : :	:::	: : :	: : :	:::	4.8 65.3 <b>77.9</b>	11,500	:::	: : :	378.8 422.3 <b>461.2</b>	87,500 95,500 <b>103,160</b>
$m \odot \infty$	63,000 80,000 <b>88,500</b>	:::	:::	38.4 9.8 <b>2.8</b>	19,800 18,800 <b>14,400</b>	26.6 25.7 <b>22.5</b>	15,520	20.5 26.9 <b>27.1</b>	5,570 6,510 <b>6,560</b>	:::		:::	:::	120.9 122.4 11.1	23,100 23,400 <b>23,400</b>	:::	:::	458.3 504.9 <b>549.7</b>	109,013 116,959 123,404
3.4.5	95,000 94,000 107,500	: : :	: : :	7.6 54.0 <b>16.7</b>	18,500 18,200 19,300	22.6 56.5 <b>29.8</b>	15,120 15,500 1 <b>5,100</b>	29.5 30.8 <b>34.1</b>	6,690 6,980 <b>7,930</b>	12.7	3,711		: : :	101.0	22,800 25,300 <b>25,400</b>	:::	: : :	590.0 620.1 <b>716.1</b>	127,621 141,993 <b>158,86</b> 2
22	122,500	:	:	27.2	000'61	25.3	15,400	32.1	7,930	12.5	3,750	:	:	4-14	25,490	:	:	7.697	173,300
9	140,500	:	:	27 · 1	009'81	24.2	15,300	34.4	8,620	0.01	3,797	:	;	85.6	25,090	:	:	836.1	181,847
36	136,500	:	:	23.9	009,61	26.7	15,200	38.0	9,230	9.4	2,716	:	:	103.2	24,300	:	:	8.768	198,000
68	168,000	:	:	39.3	35,000	16.2	15,400	31.5	7,710	9-11	2,988	:	:	149.5	25,400	:	:	1,024.2	218,600
_	171,500	:	:	44.6	45,300	21.2	15,360	21.7	10,050	14.3	3,820	0.91	26,000	8.76	20,800	:	:	1,155.1	261,820
37	187,500	:		45.2	54,800	35.2	15,540	30.7	10,600	14.6	4,140	44	35,000	133.4	25,600	:	:	1,330.5	297,696
86	000,98	:	:	45.8	63,000	38.6	15,600	34.3	11,800	15.0	2,960	55.4	33,000	156.2	26,100	:	:	1,455.4	319,300
88	000'88	:	:	83.3	009,17	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
87	187,000	:	:	92.1	89,500	40.2	15,530	38.8	11,200	6.81	2,000	59.3	35,070	1.101	25,500	18.7	24,000	†1,502.3	351,600
96	190,500	:	:	136.9	93,500	33.1	15,600	31.2	006'11	16.0	5,350	55.0	34,200	134.3	25,650	51.4	26,000	11,594.9	377,100
85	185,000	:	:	9.181	88,000	23.5	15,520	26.9	008,11	18.0	5,150	51.1	29,820	. 144.7	25,850	61.5	26,700	1,691.0	364,750
95	195,500	:	:	299.0	134,000	29 · 6	15,400	33.1	11,750	8.8	5,650	66.3	34,500	8.191	25,850	68.3	26,400	+1,904.4	449,500
4	194,000	:	:	513.6	138,000	26.1	15,600	32.9	008,11	18.8	5,850	77.0	35,220	139.1	25,550	44.4	28,000	†2,148.0	436,930
88	000'881	:	:	717.8	175,000	26.6	15,600	28.6	056'11	9.51	000'9	105.4	41,910	129.2	26,050	46.8	28,500	‡2,362·8	504,090
2	187,000	87.0	29,800	903 · 5	183,000	19.5	15,000	30.6	11,400	16.7	6,100	9.501	38,700	146.0	26,050	48.2	28,000	† 2,605·5	± 497,370

including electricity transferred from Briquette Factory.

‡Occured prior to acquisition of Newport ''A''

fincludes generation at Hamilton (from 1.7.46), Shepparton (from 7.3.51) and Warburton (1.7.44 to 16.8.47),

## STATE ELECTRICITY COMMISSION OF VICTORIA. (a) LOAD FACTORS AT POWER STATIONS.

(a) LOAD FACTORS AT POWER STATIONS. (Based on Appendix No. 7.)

"A" (55 cycle)         "B" & "C" (50 cycle)         Richmond.         Geelong.         Bendigo.           %         %         %         %         %           %         %         %         %         %              31/12/37)              31/12/37)              39.3            9.9         22.5         49.0         39.3            11.2         15.8         24.6         42.7            16.7         24.2         26.0         39.9            16.7         21.9         32.1         37.9            46.8         19.1         31.8         36.7            46.8         19.1         31.3         29.7           37.7         56.4         14.8         30.6         31.3			Yallourn	Newport.	oort.			Ballarat	Spencer St			
%         %	Year Ended 30th	June.	(including electricity from Briquette Factory).	".A" (25 cycle)	"B" & "C" (50 cycle)	Richmond.	Geelong.	and Bendigo.	(Melbourne City Council.)	Sugarloaf- Rubicon.	Kiewa.	All Stations.*
43.4          31.3 </td <td></td> <td></td> <td>%</td> <td>%</td> <td>%</td> <td>%</td> <td>%</td> <td>% Society 25,1250</td> <td>%</td> <td>%</td> <td>%</td> <td>%</td>			%	%	%	%	%	% Society 25,1250	%	%	%	%
45.7          45.7          57.6          59.14/37          59.8          59.8          59.8          59.8          60.4          59.8          60.4          60.4          60.4          60.4          60.4           60.4          60.4          60.4           60.4           60.4           60.4           60.4           60.4           60.4           60.4           60.4           60.4            60.4			43.4	:	31.3	:	:	closed down	:	:	:	43.1
51-6        9-9       22-5       49-0       39-3        60-4           62-5        11-2       15-8       24-6       42-7       14-2       53-7            68-1        16-7       24-2       29-9       34-1       18-4       59-8       22-6            23-6       17-3       26-0       39-9       19-6       63-9       26-3			45.7	:	22-1	9.61	9.09	1,5/3/15	:	8-65	:	48.0
62.5        11.2       15.8       24.6       42.7       14.2       53.7          68.1        16.7       24.2       29.9       34.1       18.4       59.8       22.6         72.8        23.6       17.3       26.0       39.9       19.6       63.9       26.3         71.3        71.3        25.4       21.9       37.9       21.9       71.3       29.4         76.0        76.0        44.5       19.1       31.8       36.7       25.0       64.0       18.1         78.2        75.8       37.7       26.7       31.3       31.2       64.0       19.7			51.6	:	6.6	22.5	49.0	39.3	:	60.4	:	51.3
68·1          16·7         24·2         29·9         34·1         18·4         59·8         22·6           72·8          72·8          23·6         39·9         19·6         63·9         26·3             71·3         25·4         21·9         32·1         37·9         21·9         71·3         29·4             76·0          44·8         19·1         31·8         36·7         25·0         62·2         18·1 </td <td></td> <td></td> <td>62.5</td> <td>:</td> <td>11.2</td> <td>15.8</td> <td>24.6</td> <td>42.7</td> <td>14.2</td> <td>53.7</td> <td>:</td> <td>50.4</td>			62.5	:	11.2	15.8	24.6	42.7	14.2	53.7	:	50.4
71·3      25·4     21·9     32·1     37·9     21·9     71·3     29·4        76·0      42·5     19·1     31·8     36·7     25·0     62·2     18·1        78·2      46·8     19·5     27·3     29·7     28·7     56·6     18·7        75·8     37·7     56·4     14·8     30·6     31·3     64·0     19·7			68.1	: :	16.7	24.2	29.9	34.1	4.8	59.8	22.6	48.3
78.2 44.8 19.5 27.3 29.7 28.7 56.4 18.7 75.8 37.7 56.4 14.8 30.6 19.5 31.2 64.0 19.7			71.3	:	25.4	21.9	32.1	37.9	21.9	71.3	29.4	48.2
75.8 37.7 56.4 14.8 30.6 31.3 31.2 64.0 19.7			78.2	: :	46.8	19.5	27.3	29.7	28.7	2.79	18.7	53.5
			75.8	37.7	56.4	14.8	30.6	31.3	31.2	64.0	19.7	57.8

• Includes generation at Hamilton (from 1/7/46), Shepparton (from 7/3/51) and Warburton (1/7/44 to 16/8/47),but excludes Newport "A" (1951).

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

					(D) LOEL	2250	AL LOWER SIAHONS (LONS).		.(2).				
Station.		Type of Fuel.		1950-51.	1949–50.	1948–49.	1947–48.	1946–47.	1945–46.	1944–45.	1943-44.	1942–43.	1941–42.
Yallourn	:	Brown Coal Briquettes	::	3,968,509	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
Newport	:	Brown Coal Briquettes Black Coal Coke	:::::	358,148 222,066 *263,001 *25,359	332,676 273,034 46,173 	94,155 279,956 62,569 . 2,266	315 232,439 5,669 9	290 153,882 736 . 10	103,981	23,049 44,588 4,028	630 56,570 4,779	35,976	95 33,446 
Richmond	:	Briquettes	:	23,180	30,564	29,783	32,313	27,248	36,169	42,212	45,770	39,443	35,901
Geelong	:	Brown Coal Briquettes	::	11,356 26,012	31,093	35,407	35,321	30,169	33,828	40,542	45,786	35,323	32,229
Ballarat	:	Briquettes	:	19,747	18,135	277,22	22,845	21,791	19,577	22,371	23,825	17,215	16,467
Spencer Street (Melbourne City Council)	ity Coun	Brown Coal cil) Briquettes Black Coal Coke	:::::		71,610 221 42,014 18	49,475 276 41,403	41,411 1,142 34,542	113 34,069 1,125 23,817	564 12,770 14,940 35,138	371 11,537 25,039 26,886	3,691	31,283 26,470	21,594
Shepparton	:	: ! ! :	:	177	:	:	:	:	:	:	:	:	:
Hamilton‡	:	: : DooW	::	1,317	1,132	975	812 1,289	623	::	::	::	::	::
				Includes	I Includes Newport "A" acquired 21/1/51.	ired 21/1/51.	‡ Acquired 1/7/46.		Not connected to State System.				

### STATE GENERATING SYSTEM

50 Cycle—Maximum Continuous rating of plane material as 50/5/5	kW 502,125 8,000
Total	510,125
25 Cycle—Maximum continuous rating of plant installed at 30/6/51	113,000
Under emergency conditions, frequency changers are used for supply to and from the 25 cycle system. Maximum capacity	o 22,000
The Commission operates a thermal station at Hamilton (not connected t the State system). Installed capacity	o 2,757
Note.—At thermal stations, generators could not be used to full capacity limitations on boiler capacity and fuel.	because of

### (b) Generators Installed at Power Stations (Interconnected System): (i) 50 Cycle

	(i) 30 Cy						
Power Station.	Set No.	Make.	Maximum Continuous Rating.	Voltage.	R.P.M.	Steam Consumption Ib./kWh at Full Load.	Year Installed.
Yallourn	2 3 4 5 6 7	Metropolitan Vickers	kW 12,500 i2,500 12,500 12,500 12,500 12,500 25,000 25,000	11,000 11,000 11,000 11,000 11,000 11,000 11,000	3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000	11.76 11.76 11.76 11.76 11.76 11.76 11.61	1924 1924 1924 1924 1925 1928 1932
Newport "B" & "C" .	8 9 10 1 2 3 4 5 6 7	Parsons Brown Boveri Parsons	25,000 25,000 15,000 15,000 30,000 30,000 30,000 30,000	11,000 11,000 6,600 6,600 22,000 21,000 11,000 11,000	3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000	11.61 11.61 11.00 11.00 9.60 9.30 9.30 9.35 9.35	1938 1938 1923 1923 1939 1945 1946 1948 1950
Richmond Geelong	8 1 2 3	Brush Ljungstrom Metropolitan Vickers Brush Ljungstrom Metropolitan Vickers	18,000 15,000 1,500 3,000 3,000	6,600 6,600 6,600 6,600 6,600	3,000 3,000 3,000 3,000 3,000 3,000	10.90 12.30 13.00 13.00 13.00	1944 1929 1921 1922 1923 1925
Ballarat	2 3 4 5*	Brush Ljungstrom Brush Electrical English Electric Bellis & Morcorn	3,000 1,400 1,400 1,400 1,400 300 5,500 3,900	6,600 6,600 6,600 6,600 500 6,600 6,600	3,000 3,000 3,000 3,000 2,400 3,000 3,000	15.00 15.00 15.00 15.00 25.00 13.50	1925 1925 1925 1937 1940 1912 1927
City Council)  Shepparton		Parsons	5,500 6,875 6,875 15,000 830	6,600 6,600 6,600 6,600	3,000 3,000 3,000 3,000 3,000 375 375	12·50 12·00 12·00 11·50	1935 1939 1939 1949 1951
Sugarloaf	2	Boving	830 6,750	6,600 6,600	250		1929
Rubicon Falls		" · · · · · · · · · · · · · · · · · · ·	6,750 275 2,700 840 4,550 4,550	6,600 6,600 6,600 6,600 6,600 6,600	250 500 750 1,000 500 500		1929 1926 1928 1928 1928
Kiewa	1 2	English Electric	13,000	11,000	428 428		1944 1945
			502,125				
	(ii) 25 C		ers A.C., 3 phase,	50 cycle.			
Newport "A"	.   1 2 3	Parsons	12,500 30,000 14,000	3,300 20,000 3,300	1,500 1,500 1,500	13·00 9·60 12·50	1918 1951 1922

Newport "A"			1 2 3 4 5 6	Parsons			12,500 30,000 14,000 30,000 12,500 14,000	3,300 20,000 3,300 20,000 3,300 3,300	1,500 1,500 1,500 1,500 1,500 1,500	13·00 9·60 12·50 9·60 13·00 12·50	1918 1951 1922 1943 1921 1923
-------------	--	--	----------------------------	---------	--	--	--	--	--	--	--

### (c) Boilers Installed at Power Stations. (i) 50 Cycle

Power Station.	Boiler No.	Make.	Rated Evaporative Capacity of each Boiler Ib./per hour.	Working Pressure of each Boiler Ib. (gauge) per sq. in.	Total Steam Temperature including Superheat Deg. F.	Year Installed.
Yallourn	1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	SJohn Thompson	68,600 68,600 68,600 98,000 98,000 98,000 98,000 77,400 68,600 75,000 75,000 75,000 75,000 75,000 75,000 75,000 75,000 75,000	270 270 270 270 270 270 270 270 270 270	650 650 650 650 650 650 650 650 650 650	1924 1924 1925 1925 1925 1928 1927 1925 1925 1925 1924 1931 1937 1937 1938 1938 1938
Newport ''B'' & ''C'' .	21 22 1 2 3 4 5 6 7 8 9	Babcock & Wilcox	75,000 75,000 43,000 43,000 43,000 43,000 43,000 60,000	270 270 270 270 270 270 270 270 270	750 750 650 650 650 650 650 750	1932 193 <b>2</b> 1923 1923 1923 1923 1923 1923
	7 8 9 10 11 12 13 14 15 16	John Thompson	60,000 60,000 60,000 160,000 160,000 160,000 160,000 160,000 160,000	270 270 270 270 620 620 620 620 620 620 620	750 750 750 750 820 820 820 820 820 820 820	1939 1939 1939 1939 1945 1945 1947 1948 1950 1950
Richmond	. 18 1 2 15 16 17 18	Babcock & Wilcox	160,000 20,000 20,000 20,000 20,000 20,000 20,000	620 160 160 160 160 160	820 570 570 570 570 570 570	1949 1917 1919 1921 1920 1921
D. Harri	1 2 3 4 5 6 1	John Thompson	27,000 27,000 27,000 27,000 27,000 27,000 11,000	200 200 200 200 200 200 200 160	588 588 588 588 588 588 600	1921 1921 1922 1922 1924 1924 1906
	2 3 4 5	Stirling	11,000 11,000 11,000 11,000 25,000	160 160 160 160 160	600 600 600 600 570	1906 1906 1913 1937 Reconstd.
(Melbourne Cit <b>y</b> Council)	2 3 4 6 8 10	Babcock & Wilcox  John Thompson Babcock & Wilcox	25,000 25,000 25,000 55,000 55,000 55,000	160 160 160 160 160	570 570 570 570 570 570	1925 1925 1925 1925 1938 1934 1937
	12 14 16 22 24	John Thompson	55,000 55,000 55,000 60,000 60,000	160 160 160 165 165	570 570 570 620 620	1939 1940 1936 1941 1941
	T .	Cycle	20.00-	1 225	100	1010
Newport "A"	1 2 3 10 11 12 13 14 15 16 17 18 19	Babcock & Wilcox  International Combustion	30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 54,000	200 200 200 200 200 200 200 200 200 200	600 600 600 600 600 600 600 600 600 600	1918 1918 1918 1918 1918 1918 1918 1918
	20 21 22 23 24 3M 4M	Babcock & Wilcox International Combustion	30,000 30,000 30,000 30,000 30,000 187,500	200 200 200 200 200 200 400 400	600 600 600 600 600 780 780	1927 1918 1918 1918 1918 1918 1943

### STATISTICS. ELECTRICITY SUPPLY.

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APPENDIX No. 10. 54 ELECTRICITY SUPPLY UNDERTAKINGS—STATE OF VICTORIA.

STATISTICAL SUMMARY—CONSUMERS AND SALES AT 30th JUNE, 1951.

		Consi	umers	Retail	Sales.
<del>-</del>	Population.	Number.	Percentage of Grand Total.	kWh.	Percentage of Grand Total.
State Electricity Commission of Victoria—  Metropolitan Provincial Cities Country  Metropolitan Provincial Cities Country	879,929 142,272 473,690	233,628 40,235 141,819	40·04 6·89 24·31	926,036,614 129,257,735 389,559,298	45·35 6·33 19·08
Total	1,495,891	415,682	71.24	1,444,853,647	70.76
Other Undertakings—  Metropolitan (receiving Bulk Supply from State Electricity Commission of Victoria)	462,568 113,503	136,864 30,924	23·46 5·30	554,884,742 42,045,256	27·18 2·06
Total	576,071	167,788	28.76	596,929,998	29.24
Grand Total	2,071,962	583,470	100-00	2,041,783,645	100.00

### APPENDIX No. 11.

### STATE ELECTRICITY COMMISSION OF VICTORIA. CONSUMER STATISTICS. (a) AGGREGATES FOR ALL BRANCHES, 1932–1951.

Year Ended	Population of Area of	Number of	Percentage of Con-		Wh. Sold per nsumer (Avera	ge).	Motors C	Connected.	Number
30th June.	Supply.	Consumers.	sumers to Population.	Domestic.	Industrial.	Com- mercial.	Number.	H.P.	of Farms Supplied.
1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950	824,000 831,000 880,000 972,000 984,000 1,018,000 1,080,000 1,104,000 1,123,000 1,141,000 1,149,000 1,149,000 1,253,000 1,253,000 1,353,000 1,353,000 1,353,000 1,414,000 1,496,000	181,042 186,175 192,969 213,669 225,534 235,942 249,244 260,733 271,749 284,373 292,341 296,717 300,465 311,172 321,631 339,286 355,258 372,135 391,005 415,682	22·0 22·4 21·9 22·0 <b>23·2</b> 24·0 24·5 25·2 <b>25·8</b> 26·0 26·1 <b>26·1</b> 26·1 27·1 27·5 27·7 <b>27·8</b>	402 423 446 466 <b>487</b> 520 540 566 626 626 658 703 756 793 838 <b>928</b> 1,015 1,151 1,370 1,556 <b>1,566</b>	57,440 60,980 62,540 62,040 61,890 57,820 53,730 56,920 62,300 65,920 60,170 50,470 41,860 38,330 37,498 37,428 35,550 39,529	1,063 1,100 1,190 1,257 1,377 1,509 1,611 1,734 1,917 2,081 2,245 2,626 2,769 2,934 3,104 2,769 3,132 3,400 3,555 3,817	18,662 19,760 21,007 24,260 <b>26,608</b> 29,063 32,386 36,282 41,530 46,114 50,465 54,285 59,483 65,983 <b>71,796</b> 77,735 84,361 90,896 96,150 <b>101,988</b>	163,949 169,646 173,699 191,550 204,503 213,667 227,903 245,697 275,458 299,988 322,283 345,924 401,085 430,452 454,901 481,408 505,877 528,618 565,298	1,410 1,600 1,740 2,025 2,540 3,200 4,030 4,985 5,785 6,410 6,785 7,032 7,467 8,772 10,209 11,680 13,181 14,419 15,741 17,572

### (b) ELECTRICITY SUPPLY BRANCHES-1950 AND 1951.

	(-	,	•			,		.,,,,,		
		Population	Number of	Percentage of Con-		cWh. Sold per nsumer (Avera		Motors C	onnected.	Number
Branch.		of Area of Supply.	Consumers.	sumers to Population.	Domestic.	Industrial.	Com- mercial.	Number.	H.P.	of Farms Supplied.
Metropolitan	1951	884,267	233,300	26·38	1,596	98,037	4,149	58,CC9	307,072	1,258
	1950	850,011	224,774	26·44	1,626	82,277	3,894	55,783	297,243	1,223
Ballarat	1951	58,348	17,033	29·19	979	30,113	2,954	4,481	23,530	787
	1950	56,680	16,043	28·30	937	25,640	2,738	4,102	21,548	609
Bendigo	1951	43,220	12,429	28·76	1,160	31,396	2,284	2,772	19,519	469
	1950	42,370	11,739	27·71	1,052	27,903	2,119	2,556	17,463	392
Geelong	1951	70,400	19,940	28·32	1,131	76,551	3,064	6,220	46,402	67 I
	1950	69,845	18,587	26·61	1,087	75,141	2,841	5,860	38,648	557
Eastern Metropolitan	1951	131,106	44.028	33·58	1,924	9,061	4,204	4,392	30,277	3,087
	1950	109,563	38,38 <b>3</b>	35·03	1,926	8,757	3,902	4,053	27,905	2,872
Gippsland	1951	112,371	30,079	26·77	1,806	9,501	3,509	8,703	47,861	4,387
(Incl. Yallourn)	1950	98,747	26,763	27·10	1,648	11,338	2,946	8,011	44,123	4,013
Midland	1951	44,398	11,018	24·82	1,099	18,645	2,392	2,435	14,390	834
	1950	41,772	10,648	25·49	1,072	16,413	2,623	2,352	13,718	759
North Eastern	1951	84,133	27,877	33·14	1,504	19,355	5,223	10,222	59,35 <b>3</b>	3,224
	1950	81,111	25,380	31·29	1,421	18,166	4,837	9,110	52,701	2,815
South Western	1951	67,648	19,978	29·53	1,596	7,803	2,170	4,754	16,894	2,855
	1950	63,594	18,688	29·39	1,526	8,210	2,054	4,323	15,269	2,501
Total	1951	1,495,891	415,682	27·8	1,566	39,529	3,817	101,988	565,298	17,572
	1950	1,413,693	391,005	27·7	1,556	35,550	3,555	96,150	528,618	15,741

### STATE ELECTRICITY COMMISSION OF VICTORIA.

### ELECTRICITY SALES AND REVENUE. (a) AGGREGATES FOR ALL BRANCHES, 1932—1951.

-			Sales	—kWh. (Mi	llions).			Revenu	ie.	
Year Ended 30th June.				Industrial				Per	kWh. So	old.
real Ended som Janes	Bulk Supplies.	Public Lighting.	Domestic.	including Traction.	Com- mercial.	Total.	Total.	Domes- tic.	Indus- trial.	Com- mercial.
							£	d.	d.	d.
1932	152·112 165·023 178·449 181·900 211·004 220·031 241·988 257·394 285·031 311·546 369·236 404·121 422·287 417·193 447·005 449·380 506·780 563·296 613·552 656·488	11.026 10.920 11.049 11.681 11.975 12.408 12.950 14.282 16.804 16.516 10.509 11.694 15.984 16.782 17.255 17.614 18.106 18.607 14.253 17.982	60·047 64·547 70·409 81·367 89·630 100·994 110·597 122·134 141·172 155·726 173·951 192·067 203·979 220·247 250·245 285·596 339·025 422·681 504·311 536·844	151.935 168.049 180.811 203.114 219.996 240.551 258.274 273.372 311.916 367.438 441.734 483.305 466.137 452.664 449.623 486.994 535.138 584.252 601.605 727.809	28·876 30·49  33·734 39·437 44·231 49·372 54·080 59·915 67·224 73·547 78·168 87·821 92·938 100·790 110·413 104·539 122·448 136·179 146·450 162·219	403 · 996 439 · 030 474 · 452 517 · 499 576 · 836 623 · 356 677 · 889 727 · 097 822 · 147 924 · 773 1,073 · 598 1,179 · 008 1,201 · 325 1,207 · 676 1,274 · 541 1,344 · 123 1,521 · 497 1,725 · 015 1,880 · 171 2,101 · 342	2,453,586 2,569,972 2,709,064 2,995,962 <b>3,164,629</b> 3,331,561 3,528,396 3,685,538 3,881,022 <b>4,241,264</b> 4,657,452 4,935,602 5,101,631 5,259,890 <b>5,605,333</b> 5,835,194 6,543,089 8,129,973 9,446,008 11,524,389	3·419 3·288 3·161 3·008 2·789 2·635 2·559 2·420 2·165 2·059 1·869 1·822 1·783 1·700 1·606 1·517 1·554 1·679	0.978 0.957 0.957 0.952 0.934 0.919 0.897 0.848 0.877 0.848 0.819 0.800 0.785 0.812 0.830 0.857 0.846 0.852 0.955 1.041 1.178	3.645 3.537 3.376 3.353 3.134 2.714 2.567 2.338 2.262 2.112 1.908 1.835 1.781 1.900 1.905 2.070 2.148 2.178

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

### (b) ELECTRICITY SUPPLY BRANCHES—1950 AND 1951.

				Sales-	–kWh. (Mill	ions).			Revenu	ie.	
Year Ended 30th	ı lune.				Industrial				Per	kWh. S	old.
Teal Elliose seal	, ,	Bulk Supplies.	Public Lighting.	Domestic.	including Traction.	Com- mercial.	Total.	Total.	Domes- tic.	Indus- trial.	Com- mercial
								£	d.	d.	d.
Metropolitan (Incl. Metropoli- tan Bulk Supplies	1951 () 1950	627·984 588·369	3·49   0·895	325·555 320·248	509 · 497 406 · 203	84·043 77·564	I,560·570 I,403·279	7,831,413 6,329,924	I · 536 I · 393	I · I 74 I · 007	2·107 2·087
Ballarat	1951 1950		0·426 0·340	13·383 12·094	20·838 15·589	6·566 5·908	41·213 33·931	298,212 248,055	2·232 2·156	•   25   •   23	2·490 2·442
Bendigo	1951 1950		0·539 0·423	11·568 10·029	15·133 12·082	3·664 3·288	30·904 25·822	22 <b>7</b> ,670 186,129	2·117 2·074	1·196 1·105	2·857 2·823
Geelong	1951 1950		0·512 0·398	18·376 16·577	47·844 43·056	7·405 6·619	74·137 66·650	459,709 393,816	2·168 2·091	1.010 0.936	2·718 2·695
Eastern Metropo	litan 1951 1950		0·950 0·675	68·021 59·483	18·883 16·498	16·334 14·200	104·188 90·856	769,120 639,834	1.73    1.63	1 · 482 1 · 435	2·165 2·130
Gippsland (Incl. Yallourn)	1951 1950		0·693 0·496	37·847 30·785	37·264 40·671	12·484 9·921	88·288 81·873	595,211 507,401	I · 774 I · 734	1·272 1·124	2·043 2·071
Midland	1951 1950		0·307 0·224	9·202 8·656	12·287 10·176	3·928 4·226	25·724 23·282	195.780 175,932	2·209 2·152	1·266 1·246	2·493 2·335
North Eastern (Incl. N.S.W. Bulk Supplies)	1951 1950	28·504 25·183	0·675 0·500	30·001 25·943	48·522 40·474	21·874 19·333	129·576 111·433	792,351 646,329	I · 960 I · 908	·   28   · 057	1.92 <b>3</b>   1.827
South Western	1951 1950		0·389 0·302	22·891 20·496	17·541 16·856	5·921 5·391	46·742 43·045	354,923 315,329	I · 882 I · 836	I • 353 I • 269	2·804 2·830
Miscellaneous	1951 1950							3,259			
Total	1951 1950	656·488 613·552	17·982 14·253	536·844 504·311	727 · 809 601 · 605	162·219 146·450	2,101·342 1,880·171	11,524,389 9,446,008	1·679 1·554	-178  -04	2·178 2·148

STATE ELECTRICITY COMMISSION OF VICTORIA. STANDARD TARIFFS AS AT 1st JULY, 1951.

		Residential and Commercial.		Farming	Industrial	
33.7	2	Provincial City and Town.	Country.	Farming Operations Only.	Factories and Other Industrial Establishments.	
. iarits.	Metropolitan.	(Ballarat, Bendigo, Geelong, and Large Towns.)	(Smaller Towns and Rural Areas.)	All Extra Metropolitan Areas.	All Supply Areas.	Miscellaneous.
	_	2	٤	4	5	9
Residential Tariff (Domestic and Commercial Residential Premises)— Service charge a month for each assessable room Rate a kWh Maximum overal! rate a kWh.	ls. 3d. 1·5d. 7·0d.	1s. 7d. 1-95d. 7-0d.	ls. 8d. 7.0d.			
Lighting—Block Tariff—rates a kWh. (based on month.y consumption)	First 20 at 5·5d. Balance at 4·5d.	First 100 at 7.0d. Balance at 5.0d.	First 100 at 7.75d. Next 200 at 6.25d. Balance at 5.0d.		First 20 at 5-5d. Balance at 4-5d.	centres are the same as shown in Columns 2. 4, and 5, except the Residential Tariff within certain areas:—Croydon Haahmont
Power and Heating— Block Tariff—rates a kWh. (based on monthly consumption)	First 200 at 3·0d.  Next 4,800 at 1·75d.  20,000 at 1·4d.  Balance at 1·35d.  Il p.m7 a.m.—0·65d.	First 200 at 3-5d. Next 4.800 at 2-25d. 20,000 at 1-55d. Balance at 1-5d. 10.30 p.m6.30 a.m.*—0-725d.	First 50 at 3.75d.  Next 150 at 3.5d.  4.800 at 2.25d.  20,000 at 1.55d.  Balance at 1.55d.  10 p.m6 a.m0.725d.		First 200 at 3·0d.  Next 4,800 at 1·75d.  20,000 at 1·4d.  Balance at 1·35d.  It p.m.—7 a.m.•—0·65d.	Kilsyth Montrose Ringwood Details of Residential tariffs for the areas concerned will be supplied on request.
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 5-5d. Next 980 at 4-5d. 1,000 at 3-0d. 20,000 at 1-4d. Balance at 1-35d. 11 p.m7 a.m.—0-65d. (Power and Heating only.)	Commercial General Service. First 100 at 7·0d. Next 900 at 5·0d. 4.000 at 3·5d. 20,000 at 1·55d. Balance at 1·5d. 10.30 p.m6.30 a.m.•—0·725d. (Power and Heating only.)	Commercial General Service. First 100 at 7.75d Next 200 at 6.25d. 1, 7000 at 5.0d. 1, 20,000 at 1.55d. Balance at 1.55d. 10 p.m6 a.m.—0.725d. (Power and Heating only.)	First 4 at 7.5d A to 7.5d Next 196 at 3.5d. Next 800 at 2.25d. Balance at 1.55d. IO p.m6 a.m.*—0.725d.	Industrial All-Purposes   First   20 at 5-5d.   Next   480 at 4-5d.   4,500 at 2-7d.   20,000 at 1-35d.   Balanc   100,000 at 1-35d.   Balanc   10,000 at 1-35d.   10,000 at 1-25d.   10,000 at 1-25d.	
Rental a month for each two-rate meter	5s.	5s.	55.	55	.5s.	
Industrial Maximum Demand (See Note 3 below) Power, Heating, and Lighting.					£1 is, 8d. a month for each kW. of maximum demand plus 0.55d. a kWh (500 kW Minimum demand charge). Reset monthly.	
Commercial Range (Electric Cooking)—Rate a kWh	l·5d	1.954.	2·Id.			
Water Heating—Night Tariff Rate a kWh	0·725d.	0.8254.	0.825d.	0·825d.	0·725d.	
Minimum Charge—a month	25. 6d.	38.	3s. 6d.	3s.	2s. 6d.	

• Prescribed hours or 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—i. Details regarding 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 £15 1s. 8d. 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 du ended 30th J		Total at 30th Ju	une, 1951.			
	Descripti					Route Miles.	Cable Miles.	Route Miles.	Cable Mil <b>e</b> s.
OYEI	RHEAD LI						<del>-</del>		
Yallourn to Yarraville Yallourn to Richmond Yallourn to Richmond Yallourn to Warragul Newport to Geelong Sugarloaf to Eildon Rubicon "A" to Eildon Thomastown to Bendigo Newport to Ballarat Maindample to Wangaratt Kiewa No. 3 P.S. to Sugar Kiewa No. 3 P.S. to How Kiewa No. 3 P.S. to This Kiewa-Rocky Valley to P. Sugarloaf to Eildon Main Metropolitan Transn	a loaf man's Gal Beauty retty Vall nission Lie	    p	132 kV. 132 kV. 66 kV.			         	5·I 4·2         42·6 68·7 7·2	110·0 80·5 24·8 79·3 62·0 1·1 1·4 93·4 78·0 58·0 137·0 4·0 4·8 3·0 0·6 36·7 222·1 2·4	660·0 483·0 74·4 252·3 372·0 5·1 4·2 560·7 234·0 174·0 411·0 12·0 3·6 66·1 757·6 9·0
Branches—			22 kV.			16.6	40 1		220.7
Metropolitan			7·2, 6·6, 4·0 Low tension 22 kV. 6·6 kV.			6·1 80·8 38·6 —14·3	48 · I 28 · I 34 I · 5 94 · I 38 · I	345·4 2,039·3 272·4 36·0	330·7 1,022·9 7,801·1 724·0 96·0
Bendigo			Low tension 22 kV.			38.9	121.5	359·1 269·9	1,203·6 706·6
Coolean			Low tension 22 kV.			16·0 12·8	43·2 35·8	226·5 160·8	793·4 416 <b>·</b> 2
5 . M			6.6 kV. Low tension			0·4 29·4	1·3 94·5	66·4 265·4	235·9 935·7
Eastern Metropolitan	٠.		22 kV. 6·6 kV.	• •		32·4 1·6	76·0 3·0	691·5 70·5	1,790·7 177·5
Gippsland			Low tension 66 kV. 22 kV.			113·6  43·1	428·8  99·7	1,055·4 98·2 1,222·3	3,635·8 294·6 2,992·3
			6.6 kV. Low tension			96.8	348 • 2	0·8 1,085·7	1.6 3,617.0
Midland			22 kV. 6·6 kV.			2.3	78·2 ··	442·4 I·6	1,297·9 4·7
North-Eastern .			Low tension 66 kV.			7.0	30.5	326·6 173·9	1,073·8 633·8
South-Western .			22 kV. Low tension 66 kV.			78·8 85·  64·4	75+  3 2+7  93+2	1,289·7 750·0	3,375·9 2,611·7
Journ-vvestern .	•		44 kV. 22 kV.			-42·6 46·7	- 142·8 - 104·9	155·3 2·0 1,265·1	605·3 6·1 2.753·5
			6.6 kV. Low tension			24.2	0·3 80·6	63·6 533·3	176·8 1,417·1
Yallourn		• •	6·6 kV. Low tension			0·4 1·9	1·2 9·0	20.9	33·2 70·7
Summary			132 kV. 66 kV.			81.1	245 ·	190·5 1,003·1	1,143·0 3,699·5
			44 kV.		::	-42.6	- 142.8	2.0	6.1
			22 kV. 7·2, 6·6, 4·0	kV.		307⋅8 3⋅1	837·6 6·6	5,955·8 598·4	15,168·8 1.761·2
				• •		493 • 7	1,810-5	6,662.2	23,159.9
IINDE	RGROUND	CARI				836·9 Cable N	2,757·0 l	14,412·0 Cable M	44,938·5
22 and 20 kV						17-4		171 · 7	<del></del>
II, 7·2, 6·6, 4·0, 3·3 and 2 Pilot, telephone, and superv Low tension						5•4 12•1 3•2	5	346·1 195·3 64·5	32
LOW tellsion	• • •	••			-	38.3		777 • 7	
	SUB-STAT!	IONS.			<del>-</del> †	Number.	Capacity kVA.	Number.	Capacity kVA.
Terminal Stations					-		45,000	8	481,250
Switching Stations Main Metropolitan Transmis <b>Branches</b> —	sion Sub-	station	is			2	17,500	2 44	18,000 552,750
Metropolitan Ballarat					::	50 42	25,905 2,000	1,016 275	299,700 16,450
Bendigo						42	1,715	235	37,555
Geelong						29	1,955	260	35,310
Eastern Metropolitan Gippsland					::	77 53	10,175 3,150	895 1,062	62,480 46,0 <del>4</del> 5
Midland						43	405	382	22,510
North-Eastern South-Western	• •			• •	• •	168	5,191	1,211	87,670
	• •					106	4,065 990	1,345	57,270 4,080
Yallourn			• • • • •						
Yallourn		• •			-	615	118,051	6,758	1,721,070

### STATE ELECTRICITY COMMISSION OF VICTORIA.

### COUNTRY UNDERTAKINGS ACQUIRED (78)—INCREASED DEVELOPMENT SINCE ACQUISITION.

			Amulaldaa	After Acqui Year 195	sition, 0–51.	Prio	r to Acquisition		Average R kW	evenue per h Sold,
Location.			Acquisition Date.	kWh Sold.	Revenue.	kWh Sold.	Revenue.	For Year Ended	1950–51.	Prior to Acquisition
Metropolitan Bra Werribee	nch.		10.4.24	7,219,781	£ 50,483	61,190	£ 2,575	30.9.23	d. I·68	d. 10·10
Ballarat Branc Ballan	h. :: :: ::	::	1.3.40 31.10.40 1.10.40 17.5.40	212,681 1,860,404 462,650 115,297	2,590 15,117 4,498 1,081	!3,261 184,853 46,002 1,320	964 5,091 1,701 90	30.6.39 30.10.40 30.6.40 30.6.39	2·92 1·95 2.33 2·25	17·45 6·61 8·87 16·36
Bendigo Branc aglehawk Imore aglewood itiamo	h.  		1.2.36 2.9.47 3.12.46 19.3.51	4,020,963 510,115 277,574 —	24,915 4,561 3,519 	198,580 60,000 89,400 8,728	4,472 2,188 2,614 391	30.9.35 30.6.46 30.9.46 30.6.50	1 · 49 2 · 15 3 · 04	5 · 40 8 · 75 7 · 02 10 · 75
	Branch		1.10.23 21.2.28 1.4.33 1.4.25 1.8.30 1.4.25 1.10.27 1.7.44	8,301,640 10,187,944 2,259,894 2,481,288 4,130,999 11,845,753 2,459,124 917,980	60,890 74,840 19,466 16,174 31,581 79,821 18,979 8,347	77,300 293,000 108,910 39,950 120,000 181,600 47,500*	4,006 8,859 4,196 1,816 4,634 4,393 2,440 3,485	30.9.23 30.9.27 30.9.31 30.9.24 30.9.28 30.9.24 30.9.27 30.6.44	1·76 1·76 2·07 1·56 1·84 1·62 1·85 2·18	12·44 7.25 9·24 10·91 9·26 5·81 12·33* 7·43
Gippsland Brand Br	ch.		1.4.27 3.10.24 1.8.29 15.9.24 1.10.34 1.8.35 1.12.24 15.2.24 1.9.24 1.7.24 1.7.24 1.7.25 1.7.25 1.7.25 1.7.24 1.5.1.35 1.7.24	3,727,820 2,143,238 182,059 891,547 274,688 812,193 3,211,702 2,385,599 5,366,811 11,248,231 1,187,345 5,649,204 1,216,178 1,188,410 4,158,171 144,414 1,197,559	29,856 14,235 1,664 6,905 2,899 5,944 19,153 16,394 28,868 57,587 42,815 8,905 1,542 32,540 1,327 10,258	100,272 19,500 8,864 20,000* 4,000* 17,481 85,000 50,640 62,000 52,062 59,550 114,155 116,330 5,000* 150,000* 5,280 264,000*	2.948 743 465 950* 200 686 3.427 2.012 2.651 1.772 1.193 3.687 2.348 312* 4.830 172* 6.422	30.6.23 30.9.21 30.12.27 30.6.24 30.6.34 9.8.33 30.9.23 30.9.22 30.9.25 30.6.33 30.6.23 30.6.23 30.6.34 30.6.34 30.6.36 31.1.30	1.92 1.59 2.19 1.86 2.53 1.76 1.43 1.65 1.29 1.74 1.82 1.76 1.88 2.21 2.06	7.06 9.15 12.59 11.40* 9.42 9.68 9.53 10.26 8.17 4.81 7.75 4.84 14.98* 7.82* 5.84*
Midland Branci yoca	h	::	1.8.40 2.6.41 31.12.29 1.4.38 1.10.28 1.10.29 1.10.37 1.5.26 8.5.39 1.8.29	445,928 2,397,424 4,065,637 469,001 434,474 1,728,552 4,375,203 790,190 192,436 818,776	4,107 17,847 30,932 3,939 3,753 14,605 30,915 7,568 2,017 7,237	46,410 253,913 175,904 32,667 17,000 143,340 421,013 58,501 21,000* 51,000	1,922 4,225 7,130 1,188 1,074 5,433 10,215 2,490 989 2,555	30.6.40 30.9.40 31.12 28 30.9.37 30.9.27 30.9.27 30.9.37 30.9.24 30.9.38 30.9.27	2·21 1·79 1·83 2·02 2·07 2·03 1·70 2·30 2·52 2·12	9.94 3.99 9.73 8.73 15.16 9.09 5.82 10.21 11.30* 12.02
North-Eastern Bra leechworth leenalla			11.4.27 2.9.46 1.5.26 1.12.41 31.8.48 1.9.26 1.10.28 20.3.28 1.10.26 30.11.45 1.12.40 1.10.31 1.8.35 15.10.26 2.10.44 1.1.25 14.6.38 1.11.26 1.3.36 1.3.36 1.2.26 12.3.27 1.11.33 1.8.25 1.5.45	1,198,602 1,223,946 4,079,531 673,292 4,476,295 244,101 1,494,778 1,270,128 2,945,985 968,888 2,225,637 345,921 1,015,765 2,179,444 1,295,230 1,431,232 3,655,530 7,669,158 1,581,529 655,358 1,320,638 1,581,529 655,358 1,320,638 1,434,947 9,332,012 1,916,597 10,800,833 685,829	9,671 10,527 32,740 5,427 19,809 2,803 11,234 11,476 22,305 8,756 14,044 3,494 8,432 19,337 10,464 11,450 31,4812 59,934 10,426 5,491 10,545 1,768 64,786 64,786 64,786 64,786 65,985 44,802 6,281	64,000* 182,661 70,800 49,200 75,089 13,475 19,500 46,618 92,312 25,000 40,000 114,080 59,260 96,763 191,310 28,392 1,004,623 163,400 5,150* 118,033 40,000 14,650* 7,233 151,600 64,500* 47,000 163,550	1,875 6,982 3,373 1,801 2,678 730 1,416 1,782 3,462 1,341 1,457 2,547 2,089 3,619 4,223 1,377 14,019 4,625 341 3,119 1,710 1,160 263 4,788 3,000 2,149 3,134	30.9.26 30.9.46 30.9.24 31.10.41 31.8.48 31.8.26 30.9.27 30.9.25 4.7.25 30.9.27 30.9.25 30.9.27 30.9.25 30.9.24 30.9.24 30.9.24 30.9.24 30.9.24 30.9.24 30.9.25 30.9.24	1.94 2.06 1.93 1.93 1.96 2.76 1.80 2.17 1.81 2.17 1.51 2.42 1.99 2.13 1.99 2.13 1.99 2.13 1.98 2.17 1.58 2.17 1.59 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10	7·00* 9·17 11·43 8·79 8·56 13·00 17·43 9·17 9.00 12·88 8·74 5·36 8·97 11·64 3.35 6·79 15·89* 6·34 10·26 19.00* 8·73 7·58 11·16*
South-Western Brackers of the second of the	inch.		1.1.24 1.9.23 1.7.46 1.7.46 1.12.28 15.12.36 16.5.24 4.3.24	2,074,256 5,082,272 420,850 4,332,727 514,965 1,353,563 542,665 1,511,154	16,874 41,199 4,440 38,761 4,840 11,317 4,968 12,537	97,664 99,000 100,216 1,440,664 50,000 24,000 35,306 78,839	4,122 2,673 2,435 19,422 2,319 1,658 1,626 3,439	30.9.23 30.9.22 31.12.44 31.12.44 30.9.28 30.9.36 30.9.22 30.9.23	1.95 1.95 2.53 2.15 2.26 2.01 2.20 1.99	10·13 6·48 5·83 3·24 11·13 16·58 11.05 10.47
	Total			197,845,077	£1,419,996	8,872,919	£242,708		1 · 72	6.56

### \* Approximate only. COMPARISON OF TOTAL FIGURES.

				COL	MPARISON OF TO	AL FIG	SUKES.		A
					kWh. Sold.		Revenue.		Average Revenu <del>e</del> per kWh.
After acquisition			 		197,845,077		1,419,996	 	1.72
Prior to acquisition	• •	• •	 		8,872,919		242,708	 	6.56
Increase in sales and	reveni	Je.	 		188,972,158		1,177,288	 	Decrease 4.84 == 73.8%

## ELECTRICITY SUPPLY. CENTRES SERVED IN VICTORIA.

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		Page
Appendix No.	16—Centres Supplied by S.E.C	60–71
Appendix No.	17—Municipal and Private Electricity Supply Undertakings	72-73
Appendix No.	18—Map of State Supply System	

### APPENDIX No. 16.

- CLITTR	LJ JLKY	LD DI JI	AIL	ELECTRICITI CO	MINI 33101	I OF VIC	JUKIA.	
Municipality or Centre.	Branch.	Location o Officer-in-Cha (District Offic	f arge ce).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Page 19 Columns No.	Date Supply First Undertaken by Commission.
Metropolitan.								
Brighton	Metro	Melbourne ",		A.C., 3 ph. and 1 ph. A.C., 3 ph				1.9.30
Camberwell	"	,, ,, ,,		A.C., 3 ph. and   ph. A.C., 3 ph. and   ph. A.C., 3 ph A.C., 3 ph A.C., 3 ph A.C., 3 ph				1.9.30 1.9.30 1.9.30 1.8.22 1.8.22 1.9.30
Hawthorn Kew Malvern Moorabbin Mordialloc Mulgrave (part) Oakleigh Prahran	"""""""""""""""""""""""""""""""""""""""			A.C., 3 ph. and I ph. A.C., 3 ph. and I ph. A.C., 3 ph. and I ph. A.C., 3 ph A.C., 3 ph A.C., 3 ph A.C., 3 ph A.C., 3 ph A.C., 3 ph. and I ph.	> 866,660	229,139	l and 5	1.9.30 1.9.30 1.9.30 1.9.30 1.9.30 1.9.30
Richmond St. Kilda Sandringham South Melbourne Sunshine Sunshine		Sunshine		A.C., 3 ph A.C., 3 ph. and 1 ph. A.C., 3 ph A.C., 3 ph A.C., 3 ph				1.9.30 1.9.30 1.9.30 1.9.30 1.9.30 1.3.27
City of Chelsea	E/M.	Chelsea		A.C., 3 ph	12,992	4,405	I and 5	31.12.44
East Oakleigh (see also Country Centres)	"	Dandenong		A.C., 3 ph. and I ph.	277	85	I and 5	19.7.26
Ballarat.  City of Ballarat (including Alfredton, Ballarat East, Ballarat North, Brown Hill, Canadian and Mt.	Ballarat	Ballarat		A.C., 3 ph D.C., 3 wire				
Pleasant) Borough of Sebastopol Ballarat Shire (Wendouree only)	"	"		A.C., 3 ph A.C., 3 ph	44,722	12,758	2, 4 and 5	1.7.34 (Mt. Clear 30.6.47)
Mt. Clear (see also Country Centres)	,,	,,	• •	A.C., 1 ph				
Bendigo.								
City of Bendigo (including Golden Square, Long Gully, and White Hills)	Bendigo	Bendigo		A.C., 3 ph				1.7.34
Borough of Eaglehawk Huntly Shire (portion only, including Epsom)	"	,,		A.C., 3 ph. and I ph. A.C., 3 ph. and I ph.				1.2.36 19.5.37 (Epsom
Marong Shire (portion only, including Kangaroo	,,			A.C., 3 ph. and 1 ph.	37,850	10,897	2, 4, and 5	29. (2.39)
Flat) 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	)			
City of Geelong West Newtown and Chilwell	"	11		A.C., 3 ph A.C., 3 ph A.C., 3 ph	F0.700	17 500	2.4.15	1.0.20
long, North Shore and	• • • • • • • • • • • • • • • • • • • •						/ 4 and •	1 4 211
Corio Shire (North Geelong, North Shore and Fyansford) South Barwon Shire (Belmont, Grovedale and Highton)	 	,,,		A.C., 3 ph	59,700	16,580	2, 4 and 5	1.9.30 (Fyansford 10.10.38)

Municipality or Centre	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Page 19 Columns No.	Date Supply First Undertaken by Commission.
Country.  Acheron Addington Adelaide Lead	N/E. Ballarat Mid.	Alexandra Ballarat Maryborough	A.C., I ph	89 30 30	64 26 2	3, 4 and 5 3, 4 and 5 3, 4 and 5	24.11.37 13.4.49 19.5.50
Agnes Airey's Inlet Airly Alberton Alberton West Alexandra Allansford Allendale Altona Alvie Amphitheatre Anglesea Archie's Creek Ardmona Ascot Aspendale Rural Avenel Avonsleigh	Gipps. S/W. Gipps. N/E. S/W. Ball. Metro. S/W. Mid. S/W. Gipps. N/E. Ball. E/M. N/E. Mid.	Foster Lorne Sale Yarram Alexandra Warrnambool Daylesford Werribee Colac Maryborough Lorne Korumburra Shepparton Ballarat Chelsea Seymour Maryborough Belgrave	A.C., I ph	50 100 100 300 188 1,157 450 125 4,588 135 405 220 300 220 35 22 425 92	37 76 41 66 35 489 91 30 1,164 34 38 203 79 206 25 8 114 365 38	3, 4 and 5	1.11.38 24.12.36 16.6.37 1.10.46 18.8.47 11.4.27 20.11.24 4.11.47 9.12.24 15.10.24 24.8.49 21.12.36 1.9.40 25.3.38 7.12.38 31.12.44 22.3.48 1.8.40 20.12.50
Bacchus Marsh Bacchus Marsh Rural Baddaginnie	Mid. Mid. N/E. E/M. Gipps.	Bacchus Marsh Bacchus Marsh Benalla Healesville Bairnsdale	A.C., 3 ph. and I ph. A.C., 3 ph. and I ph. A.C., I ph	3,263 (See Bacch 110 163 4,550	906 nus Marsh) 41 41 1,590	2, 4 and 5 3, 4 and 5 3, 4 and 5 {2,4 and 5 3,4 and 5 2, 4 and 5	3.6.41 3.6.41 23.7.36 } 1.4.33
Bairnsdale Rural	Gipps, Ball. S/W. Ball. Ball. N/E. N/E. N/E. N/E. N/E. N/E. Mid.	Bairnsdale Ballarat Colac Ballarat Ballarat Rochester Benalla Rochester Rochester Wodonga Wodonga Castlemaine	A.C., I ph	240 30 50 773 150 170 40 735 (See Ba (See k	37 4 9 259 31 88 11 301 mawm) (iewa) (iewa)	3, 4 and 5 3, 4 and 5	13.2.36 13.7.38 1.6.37 1.3.40 1.7.34 20.3.40 8.10.37 19.12.45 23.2.48 12.4.39 19.6.46 23.10.47
Baringhup East Barker's Creek Barnawartha Barpinba Barrabool Barwo Barwo Heads Batesford Baxter Bayles Bayswater	Mid. Mid. N/E. S/W. Geel. N/E. Geel. E/M. Gipps. E/M.	Maryborough Castlemaine Wodonga Colac Geelong Numurkah Queenscliff Geelong Frankston Koo-wee-rup Ringwood	A.C.,   ph A.C., 3 ph. and   ph. A.C.,   ph. * A.C.,   ph. * A.C.,   ph. and   ph. A.C.,   ph A.C.,   ph. and   ph. A.C., 3 ph. and   ph. A.C., 3 ph. and   ph.	12 231 290 11 155 35 750 155 333 250	6 35 69 2 31 22 387 25 106 114	3, 4 and 5	31.8.50 15.12.44 7.10.27 8.6.44 10.12.45 24.4.45 6.9.24 28.2.39 11.8.49 11.9.35 24.7.26
Beaconsfield Beeac Beechworth Belgrave Bellbrae Bena Benalla Benalla Rural Bennison Berwick Birregurra Bittern	E/M. S/W. N/E. E/M. Geel. Gipps. N/E. Gipps. E/M. S/W.	Pakenham Colac Beechworth Belgrave Geelong Korumburra Benalla Benalla Foster Pakenham Colac Frankston	A.C.,   ph	216 480 2,694 2,822 20 390 5,310 161 80 726 450 157	109 141 697 1,286 5 128 1,613 82 23 336 156	3, 4 and 5 3, 4 and 5 3, 4 and 5 2, 4 and 5 2, 4 and 5 3, 4 and 5	18.6.28 21.5.24 2.9.46 24.8.25 9.8.44 10.7.30 1.5.26 26.5.37 29.10.38 7.5.28 30.10.24 22.12.37
Blampied	Ball. Ball. N/E. S/W. Gipps. Gipps. N/E. N/E. S/W. Gipps.	Daylesford Ballarat Wangaratta Hamilton Maffra Warragul Wodonga Mansfield Camperdown Morwell Leongatha	A.C., I ph	50 55	12 21 10yhu) 3 208 57 43 61 61 95 28	3, 4 and 5 3, 4 and 5	23. 4.47 28.7.49 21. 4.50 6.6.51 13.7.37 30.12.38 18.12.40 31.1.41 10.8.37 29.10.24
Boorcan	S/W. E/M. S/W. Mid. N/E. Metro. and E/M. Gipps.	Terang Ringwood Camperdown Maryborough Wangaratta Melbourne	A.C., 3ph and 1ph.* A.C., 3 ph. and 1 ph. A.C., 1 ph.* A.C., 1 ph A.C., 3 ph A.C., 3 ph A.C., 3 ph. and 1 ph. A.C., 1 ph	100 2,357 56 50 92 179	5 911 14 10 7 48	3, 4 and 5 2, 4 and 5 3, 4 and 5	20.12.50 23.1.27 15.12.24 10.5.40 23.4.34 27.6.30 15.2.39

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Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Page 19 Columns No.	Date Supply First Undertaken by Commission.
Country—continued.							
Briagolong Briar Hill Bridgewater Bright Broadford Broadmeadows Broomfield Bruthen Buckley Buffalo River Bulla Bullaharre Bullarook Bullock Swamp Buln Buln Bundalaguah Bundoora Bungaree Bung Bong Buninyong Buninyong Buninyong Bunyip Burramine Burrumbeet Burwood Rural Bushfield Byaduk Byrneside	Gipps. E/M. Bend. N/E. Metro. Ball. Gipps. S/W. Mid. S/W. Gipps. E/M. Ball. Gipps. E/M. Ball. Gipps. E/M. Ball. Coipps. N/E.	Maffra Greensborough Inglewood Myrtleford Seymour Melbourne Daylesford Lakes Entrance Colac Myrtleford Sunbury Camperdown Ballarat Colac Warragul Sale Greensborough Ballarat Maryborough Ballarat Koo-wee-rup Yarrawonga Ballarat Dandenong Warrnambool Port Fairy Shepparton	A.C.,   ph	504 506 500 1,640 1,334 752 45 662 12 20 95 55 55 218 250 176 413 20 640 1,100 97 172 54 110 80 66	123 175 149 295 394 165 15 154 8 56 28 10 39 15 74 52 55 59 11 177 194 31 49 18 27 27	3, 4 and 5 2, 4 and 5 3, 4 and 5	5.3.37 12.5.26 27.4.40 1.12.41 31.8.48 18.11.35 17.2.49 1.10.30 20.9.48 24.1.45 10.11.36 30.10.45 25.11.49 12.9.24 1.12.30 13.11.36 31.12.27 14.5.40 21.4.41 14.1.37 15.10.28 12.9.35 15.12.47 7.10.38 8.12.49 10.12.48 24.5.37
Caldermeade Calivil Cambrian Hill Campbellfield Campbell's Creek Campbell's Forest Campbell's Forest Camperdown Camperdown Rural Carisbrook Carlsruhe Carranballac Carrum Downs Carrum Rural Castlemaine Catani Ceres Chelsea Rural Chewton Chiltern Chocolyn Clarkefield Clarke's Hill Clayton Clayton South Clematis Clifton Springs Cloverlea Clunes Clyde Clyde Clyde North Clydebank Cobden Cobrico Coghill's Creek Colac Colac Rural Coldstream Coloraine Condah Swamp Congupna Connewarre Coragulac Coranul Covangalt Cowwarr Craigieburn Cranbourne	GBeall. o. M. Beyw	Koo-wee-rup Inglewood Ballarat Melbourne Castlemaine Inglewood Camperdown Camperdown Terang Maryborough Kyneton Willaura Frankston Chelsea Castlemaine Koo-wee-rup Geelong Chelsea Castlemaine Rutherglen Camperdown Sunbury Ballarat Melbourne Dandenong Melbourne Belgrave Queenscliff Trafalgar Ballarat Dandenong Dandenong Dandenong Dandenong Camperdown Cobram Camperdown Ballarat Dandenong Camperdown Cobram Camperdown Ballarat Dandenong Camperdown Ballarat Colac	A.C.,   ph	150 300 70 456 757 2,5 3,720 2,280 170 360 60 60 125 100 280 64 764 7,235 20 121 50 3,497 46 184 30 263 870 256 154 100 810 1,100 6,20 2,370 1,200 8,735 2,370 1,200 8,725 1,200 8,735 1,500 1,500 8,735 1,500 1,5	62 101 20 72 166 6 986 780 43 183 125 96 50 23 126 222 7 9 16 901 93 296 71 43 208 481 47 2,255 57 375 97 308 166 29 17 30 230 31 17 855 855 855 855 855 855 855 855 855 85	55555555555555555555555555555555555555	6.9.35 13.12.48 25.7.49 14.9.36 28.11.41 22.3.48 30.12.23 9.1.36 12.8.38 24.11.37 13.9.44 18.10.39 8.3.51 31.12.44 23.9.38 1.12.44 23.9.38 1.9.26 14.1.38 13.3.45 6.10.50 30.4.26 10.11.44 24.8.34 15.12.26 7.4.30 9.2.38 25.10.50 23.10.50 9.4.36 26.3.24 1.10.28 27.10.36 26.3.24 1.10.28 27.10.36 26.3.24 1.10.28 27.10.36 27.3.30 1.7.46 18.10.45 7.9.34 10.8.44 30.4.24 9.8.35 27.3.24 1.7.36 1.7.37 8.11.24 1.8.37 8.11.24 1.8.37 8.11.24 1.8.37 8.11.24
	E/M. S/W. Ball. E/M. S/W. S/W.			637 335 1,548 704 80 15	230 83 425 207 19 2	3, 4 and 5 3, 4 and 5	12.9.28 19.11.41 24.11.37 23.8.29 16.3.38 31.7.50

Municipality or Centre.	Branch,	Location of Officer-in-Charge (District Office).	System of Suppl <b>y.</b>	Population.	Number of Consumers.	Tariffs as per Page 19 Columns No.	Date Supply First Undertaken by Commission.
Croydon	E/M. S/W. Geel.	Ringwood Warrnambool Queenscliff	A.C., 3 ph. and 1 ph. A.C., 1 ph.* A.C., 1 ph	3,774 70 90	1,634  4  19	6 3, 4 and 5 3, 4 and 5	1.4.25 7.12.38 21.9.46
Dalmore Dalyston Dandenong Darley Darlington Darnum Dawson Daylesford Dean Dederang Deer Park Deer Park Deer Park Rural Dennington Derrinallum Devenish Devon North Diamond Creek Digger's Rest Diggora Dingee Dingley Dixie Donnybrook Dookie Dreeite Driffield Dromana Drouin Rural Drouin Rural Droush West Drysdale Dumbalk Dumbalk North Dundonnell Dunkeld Dunnstown Dunolly	Gipps. Gipps. E/M. Mid. S/W. Gipps. Ball. Ball. N/E. Metro. Mid. S/W. N/E. Gipps. E/M. N/E. Bend. N/E. Bend. S/W. Gipps. E/M. S/W. Gipps. Gipps. Gipps. Gipps. Gipps. Gipps. Gipps. Gipps. S/W. N/E.	Koo-wee-rup Korumburra Dandenong Bacchus Marsh Camperdown Trafalgar Maffra Daylesford Ballarat Wodonga Sunshine Bacchus Marsh Warnambool Camperdown Yarrawonga Yarram Greensborough Sunbury Rochester Inglewood Dandenong Terang Greensborough Shepparton Colac Morwell Morwell Rosebud Warragul Warragul Warragul Warragul Warragul Warragul Warragul Warragul Warragul Camperdown Hamilton Ballarat Maryborough	A.C., 3 ph. and   ph. A.C., 3 ph A.C., 1 ph. A.C., 1 ph. A.C., 1 ph. A.C., 1 ph. A.C., 3 ph. and   ph. A.C., 3 ph. A.C., 1 ph. A.C., 3 ph. A.C., 3 ph. A.C., 3 ph. and   ph. A.C., 3 ph. A.C., 3 ph. and   ph. A.C., 3 ph. A.C., 1 ph. A.C., 3 ph. and   ph. A.C., 1 ph.	150 241 8,439 (See Bacch 80 310 20 3,130 190 280 200 222 242 724 121 18 300 415 20 236 284 270 120 1,274 1,890 240 108 1,350 160 125 18	44 64 2,755 sus Marsh) 16 71 1,039 52 39 184 7 116 86 52 46 204 48 8 8 3 101 5 25 88 34 22 612 502 86 31 319 92 109 8 117 63 231	3, 4 and 5 2, 4 and 5 2, 4 and 5 3, 4 and 5	29.   .37   15.   11.   40   1.   10.   23   9. 9. 40   22. 4. 38   20.   12.   24   16.   4. 37   31.   10.   40   5.   4. 50   6.   5.   4. 9   14.   2.   29   20.   4. 38   14.   2.   40   31.   7.   46   10.   5.   29   15.   3.   29   27.   10.   50   9.   11.   44   10.   10.   2.   29.   15.   3.   37   25.   5.   51   6.   4.   38   8.   12.   27   1.   10.   24   13.   11.   28   18.   2.   39   13.   2.   24   14.   9.   36   7.   8.   39   22.   4.   47   10.   8.   39   22.   4.   47   10.   8.   39   22.   4.   49   31.   3.   38   31.   3.   38   31.   3.   38   31.   3.   38   31.   3.   38   31.   3.   38   31.   3.   38   31.   3.   38   31.   3.   38   31.   3.   38   31.   3.   38   39.   31.   3.   38   31.   3.   38   31.   3.   38   32.   34   34   34   34   34   34   34   3
East Oakleigh (see also Metropolitan Centres)	E/M.	Dandenong	A.C., 3 ph. and 1 ph.	90	26	2, 4 and 5	19.7.26
Eastern View Echuca Echuca Rural Eddington Edithvale Rural Eildon Weir Eldorado Elingamite North Elliminyt Ellimbank Elmore Elphinstone Eltham Emerald Epping Euroa Eurobin Exford	S/W. N/E. N/E. Mid. E/M. N/E. S/W. S/W. Gipps. Bend. Mid. E/M. E/M. N/E. N/E. N/E.	Lorne Echuca Echuca Maryborough Chelsea Alexandra Wangaratta Camperdown Colac Warragul Bendigo Castlemaine Greensborough Belgrave Greensborough Euroa Myrtleford Myrtleford Bacchus Marsh	A.C.,   ph.*	`	56 288 31 560 247 147 753 36 45	3, 4 and 5 2, 4 and 5 3, 4 and 5	7.9.39 10.11.24 12.11.36 9.8.50 31.12.44 28.4.39 1.4.39 11.6.46 1.7.24 9.9.36 2.9.47 4.11.38 12.8.26 7.8.34 15.7.36 20.3.28 1.8.44 8.8.45 20.12.39
Faraday Ferny Creek Fish Creek Flinders Flynn Foster Frankston Freeburgh Freshwater Creek	Mid. E/M. Gipps. E/M. Gipps. Gipps. E/M. N/E. Geel.	Castlemaine Belgrave Foster Mornington Traralgon Foster Frankston Myrtleford Geelong	A.C., 3 ph. and I ph. A.C., 3 ph. and I ph. A.C., 3 ph. and I ph. A.C., I ph A.C., I ph A.C., 3 ph. and I ph. A.C., 3 ph. and I ph. A.C., 3 ph A.C., I ph	88 591 385 295 205 850 6,994 23 60	6 158 174 140 59 264 3,011 1	3, 4 and 5 3, 4 and 5 2, 4 and 5 3, 4 and 5 3, 4 and 5	26. 1. 51 2.9. 27 9. 7. 38 28. 10. 38 5.9. 38 30. 4. 38 21. 2. 28 20. 11. 47 30. 4. 41
Gainsborough Gapsted Garfield Garvoc Geelengla Geelong Rural Gelliondale Girgarre Girgarre East	Gipps, N/E. Gipps. S/W. S/W. Geel. Gipps, N/E. N/E.	Trafalgar Warragul Myrtleford Koo-wee-rup Terang Camperdown Geelong Yarram Kyabram Kyabram	A.C.,   ph	158 108 700 150 12 130 102 289 (See Gi	31 55 148 19 4 57 9 130 rgarre)	3, 4 and 5	28.9.36 13.4.44 1.8.29 25.9.37 6.12.44 10.10.38 23.1.47 19.5.38 11.8.46

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Suppl <b>y.</b>	Population.	Number of Consumers.	Tariffs as per Page 19 Columns No.	Date Supply First Undertaken by Commission.
Country—continued.							
Gisborne	Mid. Gipps. Gipps. Gipps. S/W. N/E. S/W. E/M. Geel. S/W. N/E. Bend. Ball. Gipps. Mid. N/E.	Sunbury Korumburra Korumburra Traralgon Terang Terang Wangaratta Willaura Greensborough Dandenong Geelong Camperdown Euroa Benalla Bendigo Ballarat Traralgon Castlemaine Shepparton	A.C., 3 ph. and I ph. A.C., 3 ph. A.C., 3 ph. A.C., 3 ph. and I ph. A.C., 3 ph. and I ph.* A.C., 3 ph. and I ph.* A.C., 1 ph. A.C., I ph.	1,393   268   410   385   30   100   84   235   181   1,144   150   60   54   93   150   268   275   11   (See Shej		3, 4 and 5	1.10.28 23.12.40 11.3.43 14.8.28 21.6.46 10.9.29 19.9.50 17.10.47 12.4.40 1.6.28 10.12.45 1.3.36 11.5.39 19.2.40 23.12.48 29.5.40 14.10.38 22.3.51 20.7.37
Grassy Spur Greensborough Greenvale Guildford Gundowring	Gipps. E/M. Metro. Mid. N/E.	Foster Greensborough Melbourne Castlemaine Wodonga	A.C., I ph	2,155 164 289 335	53 609 34 41 106	3, 4 and 5 2, 4 and 5 3, 4 and 5 3, 4 and 5 3, 4 and 5	26.10.39 23.3.26 15.7.38 13.3.51 6.5.49
Hallam Hallora Hamilton	E/M. Gipps. S/W.	Dandenong Warragul Hamilton	A.C., I ph A.C., I ph A.C., 3 ph. and I ph.*	286 68 7,800	104 1 <b>8</b> 2,223	3, 4 and 5 3, 4 and 5 2, 4 and 5	27.8.37 12.12.44 1.7.46
Hamilton Rural Hampton Park Harcourt Harkaway Harrietville Harrisfield Hastings Hawkesdale Hazelwood Hazelwood North Healesville Heatherton (Part) Heathmont Hedley Hepburn Springs Herne's Oak Hexham Heyfield Hillside Hoddle Homewood Huntly Huon	S/W. E/M. Mid. E/M. N/E. E/M. S/W. Gipps. E/M. Metro. E/M. Gipps. Ball. Gipps. S/W. Gipps. Ball. Gipps. S/W. Gipps. Ball. Gipps. S/W. Gipps. N/E. Bend. N/E.	Hamilton Dandenong Castlemaine Pakenham Myrtleford Dandenong Frankston Port Fairy Morwell Morwell Healesville Melbourne Ringwood Yarram Daylesford Morwell Terang Maffra Bairnsdale Foster Alexandra Bendigo Wodonga	D.C., 2 wire A.C., 3 ph. and I ph. A.C., 1 ph. A.C., I ph. A.C., I ph. A.C., I ph. A.C., 3 ph. and I ph. A.C., 1 ph. A.C., 1 ph. A.C., I ph.	680 340 900 171 172 613 775 240 450 150 3,744 59 435 100 592 640 120 2,000 50 57 260 (See k	170 94 291 54 70 123 260 31 103 68 919 12 153 12 324 148 22 446 33 23 20 104	3, 4 and 5	1.7.46 29.6.42 9.4.33 31.7.40 29.6.40 22.10.35 28.3.27 26.4.40 9.9.36 21.12.37 1.4.33 10.12.40 25.3.37 6.5.47 1.10.40 18.9.36 8.7.38 15.9.24 29.5.36 2.10.47 19.7.49 21.11.44 12.4.39
Illowa	S/W. Bend. Gipps. Gipps. S/W.	Port Fairy	A.C., I ph.*	100 1,050 630 420 150	29 312 274 30 26	3, 4 and 5 3, 4 and 5 3, 4 and 5 3, 4 and 5 3, 4 and 5	30.9.37 3.12.46 1.10.34 10.7.42 23.2.26
Jack River Jancourt Janefield Jeetho Jindivick Johnsonville Joyce's Creek Jumbunna Junorton	Gipps. S/W. E/M. Gipps. Gipps. Gipps. Mid. Gipps. Bend.	Yarram Camperdown Greensborough Korumburra Warragul Lakes Entrance Castlemaine Korumburra Bendigo	A.C., I ph	150 50 36 168 250 126 105 381 80	65 4 12 41 116 47 5 46 24	3, 4 and 5 3, 4 and 5	31.7.46 25.5.39 14.1.47 4.11.41 23.8.38 24.1.36 16.12.39 24.10.30 8.5.50
Kalimna Kalkallo Kallista Kalorama Kangaroo Flat Kangaroo Ground Kardella South Kariah Katamatite Katandra Katunga Keilor Kergunyah Kerrisdale	Gipps. E/M. E/M. Bend. E/M. Gipps. S/W. N/E. N/E. Metro. N/E. N/E.	Lakes Entrance Greensborough Belgrave Bendigo Greensborough Korumburra Camperdown Cobram Shepparton Numurkah Sunshine Wodonga Alexandra	A.C., I ph	161 42 514 402 (See Bendig 40 I 114 19 256 305 85 452 123 (See	27 10 237 167 To Centres) 4 14 9 63 234 69 122 104	3, 4 and 5 3, 4 and 5 3, 4 and 5 3, 4 and 5 2, 4 and 5 3, 4 and 5	6.   2.28   11.3.4    19.8.27   31.5.34   6.9.46   27.2.45   23.9.36   12.11.38   14.7.39   10.10.45   10.12.4    21.11.35   15.6.45   5.3.46

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Page 19 Columns No.	Date Supply First Undertaken by Commission.
Country—continued.  Keysborough Kialla East Kiewa Kilfeera Killarney Kilmany Kilmany South Kilsyth Kingston Kirkstall Kolora Kongwak Koonwarra Koo-wee-rup Koo-wee-rup Koo-wee-rup Koroit Koroit Koroit Korongah Korumburra Korumburra Korumburra Rural Korumburra South Koyuga Kyabram Kyabram Rural Kyneton Kyalley	E/M. N/E. N/E. S/W. Gipps. Gipps. E/M. Ball. S/W. Gipps. Gipps. Gipps. Gipps. Gipps. Gipps. N/E. N/E. Mid. M/E.	Dandenong Shepparton Wodonga Benalla Port Fairy Sale Sale Ringwood Daylesford Port Fairy Terang Korumburra Leongatha Koo-wee-rup Port Fairy Port Fairy Fort Fairy Fort Fairy Corumburra Korumburra	A.C.,   ph	80 130 125 474 183 80 70 400 100 1,200 1,200 182 1,700 30 56 2,482 138 136 (See Echt) 2,280 533 4,870	84 24 208 Ilfa Rural)   14 21 13 172 55 8 20 148 26 332 66 281 4 13 791 55 11 10ca Rural)   864 175   1,123 yneton)	3, 4 and 5	21.8.41 5.4.46 12.4.39 24.12.41 14.5.35 14.6.49 1.7.39 1.4.25 16.9.39 9.4.40 21.3.25 10.10.30 24.9.40 1.8.35 28.11.41 1.12.28 4.5.38 19.12.40 1.12.24 1.11.35 1.12.24 1.11.36 1.12.26 6.10.28 1.10.29 1.10.29 27.7.40
Laanecoorie Lake Bolac Lake Gillear Lakes Entrance Lancaster Lance Creek Lancefield Lang Lang Langwarrin Lara Lara Lake Lardner Larpent Launching Place Laverton Learmonth Leigh Creek Lemnos Leongatha Rural Leongatha South Leopold Lillico Lilydale Lindenow Lindenow South Linton Lismore Rural Little River Lock Longwarry Lone Lorne L	N/E.  Mid. S/W. Gipps. S/W. Gipps. Gipps. E/M. Gipps. E/M. Metro. Ball. N/E. Gipps. S/W. Gipps. Gipps. S/W. Gipps. Gipps. S/W. Gipps. S/W. Gipps. S/W. Gipps. S/W. Gipps. S/W. Gipps. S/W. Gipps.	Maryborough Willaura Warrnambool Lakes Entrance Kyabram Korumburra Sunbury Koo-wee-rup Frankston Geelong Geelong Warburton Warburton Warburton Werribee Ballarat Ballarat Shepparton Wodonga Leongatha Leongatha Leongatha Leongatha Leongatha Leongatha Camperdown Leongatha Camperdown Camperdown Geelong Koo-wee-rup Koo-wee-rup Koo-wee-rup Koo-wee-rup Koo-wee-rup Corne Geelong Greensborough Bairnsdale Balgrave Greensborough Bairnsdale Balgrave Greensborough Bairnsdale Balgrave Greensborough Bairnsdale Bairnsdale Balgrave	A.C., 3 ph. and   ph. A.C., 3 ph. *	190 320 50 1,347 144 104 860 900 315 370 (See 115 16 146 580 277 103 450 (See k	20 59 10 377 49 33 186 197 100 129 Lara) 46 61 111 96 25 62	3, 4 and 5	21.2.46 5.8.38 8.7.38 8.7.38 19.12.28 1.6.35 12.4.46 27.3.29 2.9.35 14.8.33 1.9.30 7.2.39 20.12.44 14.5.51 22.11.38 19.3.38 27.8.40 1.12.38 24.2.47 15.2.24 1.8.28 24.9.40 13.2.24 20.4.45 1.4.25 6.4.35 6.4.35 7.9.39 26.4.38 29.6.51 18.8.30 7.8.47 23.12.36 8.3.35 11.10.28 22.3.50 15.7.47 17.5.41 24.8.25 13.3.28 1.8.27 19.1.38 17.7.37
Macarthur Macarthur Rural Macedon Maffra Maffra Magpie Maiden Gully Mailor's Flat Maindample	S/W. S/W. Mid. Gipps. Gipps. Ball. Bend. S/W. N/E.	Port Fairy Port Fairy Woodend Maffra Maffra Ballarat Bendigo Warrnambool Mansfield	A.C.,   ph	400 650 1,498 3,445 255 40 80 120 34	104 250 374 871 103 13 31 62 7	3, 4 and 5 3, 4 and 5 3, 4 and 5 2, 4 and 5 3, 4 and 5	3.4 40 3.4.40 14.6.29 1.9.24 14.8.28 9.12.48 18.4.47 19.12.49 20.5.41

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Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Page 19 Columns No.	Date Supply First Undertaken by Commission.
Country—continued.							
Main Ridge Majorca Maldon Malmsbury Malone's Mandurang Mangalore Mannerim Mansfield Marcus Mardan Markwood Marong Marshall Maryborough Maryborough Maryvale McCrae Meeniyan Melton Melton South Menzies Creek Mepunga West	E/M. Mid. Mid. Mid. S/W. Bend. N/E. Geel. N/E. Geel. Gipps. N/E. Bend. Gipps. Hid. Gipps. Mid. E/M. S/W.	Mornington Maryborough Castlemaine Kyneton Warrnambool Bendigo Seymour Queenscliff Mansfield Queenscliff Leongatha Wangaratta Bendigo Geelong Maryborough Morwell Rosebud Leongatha Bacchus Marsh Bacchus Marsh Belgrave Warrnambool	A.C., 3 ph. and   ph. A.C.,   ph.	416 50 1,480 484 60 110 15 25 910 30 150 110 200 115 6,790 450 573 300 695 (See M	97 24 388 102 14 29 4 475 26 43 62 49 44 2,012 92 261 172 180 elton) 68 35	3, 4 and 5	13.5.48 11.4.45 1.7.36 22.12.37 7.10.49 23.5.45 10.9.48 21.9.46 1.6.28 10.8.36 31.7.36 26.7.46 6.3.51 6.10.39 1.10.37 6.8.37 22.12.27 14.9.36 20.12.39 31.1.40 27.4.50 30.5.49
Merriang	E/M. N/E. E/M. N/E. S/W.	Greensborough Myrtleford Mornington Kyabram Warrnambool	A.C., I ph	236	37 rtleford)   46   221   43	3, 4 and 5 3, 4 and 5 3, 4 and 5 3, 4 and 5 2, 4 and 5	28.9.37 8.1.44 24.5.40 22.2.27 28.12.49
Metropolitan Farm (Werribee)	Metro.	Werribee	A.C., 3 ph	337	48	3, 4 and 5	15.12.33
Metung Mickleham Millgrove Millgrove Miner's Rest	Gipps. Metro. N/E. E/M. Ball. S/W. Gipps. Gipps. Gipps. Bend. Gipps. N/E. Ball. E/M. Gipps. E/M. Gipps. E/M. Gipps. E/M. Gipps. E/M. Gipps. E/M. E/M. S/W. Gipps. G	Lakes Entrance Melbourne Wangaratta Warburton Ballarat Camperdown Leongatha Leongatha Leongatha Leongatha Inglewood Moe Moe Alexandra Ballarat Belgrave Sunbury Koo-wee-rup Greensborough Ringwood Queenscliff Maryborough Frankston Mornington Terang Mornington Terang Morwell Lakes Entrance Korumburra Wangaratta Port Fairy Port Fairy Ballarat Belgrave	A.C.,   ph	273 62 118 226 171 12 70 70 70 720 200 7,176 292 (See 100 599 118 75 1,195 711 (See Dr 48 309 434 1,800 312 4,528 1,050 7,860 7,860 7,860 768 103 148 137 180 20 30 35	79 10 59 63 50 8 55 15 293 52 1,445 82 1,445 82 277 24 30 445 277 ysdale) 8 106 146 407 64 1,132 332 1,691 159 14 27 43 121 6 7 10	3, 4 and 5	23. 12.35 12.6.39 27.7.39 9.11.49 14.2.38 22.3.50 7.8.39 1.8.40 1.10.24 19.3.51 23.9.23 14.7.30 5.3.46 12.7.50 30.11.36 11.5.26 1.4.25 30.1.25 14.2.38 2.3.25 16.9.36 1.10.26 28.9.37 1.8.30 16.5.24 1.10.26 28.9.37 1.8.30 16.5.24 1.4.26 26.11.28 1.10.30 14.6.40 26.6.30 18.4.50 24.3.46 27.5.37 17.11.50 20.6.33
Mt. Dandenong Mt. Duneed Mt. Eliza Mt. Evelyn Mt. Martha Mt. Rowan Mt. Waverley Muckleford Mulgrave Mumblin Murchison Myer's Flat Myrniong Myrtlebank Myrtleford	Geel. E/M. E/M. Ball. Metro. E/M. Mid. E/M. S/W. N/E. Bend. Mid. Gipps.	Queenscliff {Frankston   Mornington   Lilydale   Mornington   Ballarat   Melbourne   Dandenong   Castlemaine   Dandenong   Terang   Shepparton   Bendigo   Bacchus Marsh   Sale   Mornington   Castlemaine   Castlem	A.C., I ph	377 125 1,123 1,266 929 25 969 115 124 20 648 40 150 150 965	223 37 460 457 304 8 288 17 56 5 234 11 72 66 484	3, 4 and 5 3, 4 and 5 2, 4 and 5 3, 4 and 5	20.6.33 5.10.39 21.2.28 9.1.28 1.8.30 27.2.47 1.6.28 18.1.45 25.8.47 24.9.45 30.11.45 29.6.40 27.5.46 3.3.38 1.12.40

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Page 19 Columns No.	Date Supply First Undertaken by Commission
Country—continued.							
Nalangil Nanneella Napoleons Naringal Narioka Nar-Nar-Goon Narracan East Narre Warren Narre Warren North Nathalia Navigators Nayook Neerim Neerim East Neerim Junction Neerim North Neerim South Neerim South Newbridge New Gisborne Newlyn North Newry Newstead Newtown Nicholson Nilma Nilma Nilma Nilma Nilma Nilma Nilma Noojee Nooramunga Noorat	S/W. N/E. Ball. S/W. N/E. Gipps. Gipps. E/M. N/E. Ball. Gipps. Sipps. Gipps. Sipps. Gipps. Sipps. Gipps. Sipps. Gipps. Sipps. Gipps. Sipps. Sipps. Sipps. Sipps. Sipps.	Colac Rochester Ballarat Warrnambool Numurkah Koo-wee-rup Trafalgar Dandenong Dandenong Numurkah Ballarat Warragul Warragul Warragul Warragul Warragul Warragul Warragul Warragul Warragul Castlemaine Ballarat Ballarat Castlemaine Ballarat Bairnsdale Lakes Entrance Warragul Warragul Warragul Maffra Castlemaine Ballarat Bairnsdale Lakes Entrance Warragul Warragul Warragul Warragul Dandenong Warragul Benalla Terang	A.C., I ph	470 600 346 389 1,092 105 116 250 302 198 76 592 2,035 200 278 120 127 400 523 100 70 294 292 5,913 284 10 300	arwo)    126   28   8   8   8   126   28   94   123   331   19   37   62   33   228   544   20   45   79   33   114   149   24   8   107   102   912   93   22   124	3, 4 and 5	19.12.24 17.10.38 28.6.49 17.7.44 7.10.46 23.5.34 23.7.40 13.11.28 10.11.38 1.10.31 24.2.49 15.1.35 15.1.35 21.12.36 3.5.35 11.4.38 23.12.46 1.3.29 14.7.44 22.5.47 25.10.26 20.4.37 23.2.49 12.12.34 23.12.27 20.4.45 5.12.24 15.1.35 3.12.27
North Wonthaggi (portion only) Notting Hill Numurkah Nyora	Gipps. E/M. N/E. Gipps.	Dandenong Numurkah Korumburra	A.C., I ph	373 1,693 361	7 75 639 83	3, 4 and 5 2, 4 and 5 3, 4 and 5 3, 4 and 5	21.7.27 1.10.31 1.10.35
Oaklands Junction Ocean Grove Officer	Metro. Geel. E/M. E/M. S/W. N/E.	Melbourne Queenscliff Pakenham Belgrave Colac Shepparton	A.C.,   ph		8 347 140 302 15 epparton	3, 4 and 5 3, 4 and 5	10.12.35 27.9.24 12.4.28 30.9.27 23.5.44 20.2.36
Outtrim	Gipps. N/E. N/E.	Korumburra Myrtleford Wangaratta	A.C., 1 ph	265 80 (See M	43 66	3, 4 and 5 3, 4 and 5 3, 4 and 5	13.11.39 20.11.44 25.10.44
Pakenham Panmure Parwan Paynesville Penshurst Penshurst Rural Picola Pine Lodge	E/M. S/W. Mid. Gipps. S/W. S/W. N/E. N/E.	Pakenham Terang Bacchus Marsh Bairnsdale Hamilton Hamilton Numurkah Shepparton	A.C., 3 ph. and I ph. A.C., I ph.* A.C., 3 ph. and I ph. A.C., 3 ph. and I ph. A.C., I ph A.C., I ph A.C., 3 ph A.C., 3 ph. and I ph.	907 200 66 450 760 320 190 (See Shep Ea	parton	3, 4 and 5 3, 4 and 5	18.6.28 3.9.37 10.1.46 25.2.38 16.9.38 16.9.38 1.11.40 25.2.36
Pirron Yallock Plenty Point Cook Point Lonsdale Pomborneit Pomborneit Poowong Poowong East Poowong North Port Albert Portarlington Port Fairy Port Fairy Rural Port Franklin Portsea Port Welshpool Powlet River (portion	S/W. E/M. Metro. Geel. S/W. S/W. Ball. Gipps. Gipps. Gipps. Geel. S/W. Gipps. Gipps. Gipps. Gipps. Geel. S/W. Gipps.	Colac	A.C.,   ph.*	60 326 32 400 90 60 65 662 242 165 250 1,100 2,100 880 180 559 340 81	82 4 287 15 23 25 157 56 16 17 322 674 335 44 213 83	3, 4 and 5 3, 4 and 5	21.12.36 28.11.45 1.7.40 30.12.23 1.9.26 1.9.26 13.10.50 11.9.30 17.10.38 2.5.45 29.11.46 27.2.24 21.12.28 10.11.30 23.7 38 1.10.27 31.3.47 17.1.41
only) Prairie Puckapunyal	Bend. N/E.	Inglewood Seymour	A.C., I ph A.C., 3 ph		ymour	3, 4 and 5 3, 4 and 5	13.12.48 2.10.44
Queenscliff	Geel.	Queenscliff	A.C., 3 ph	3,300	ral) 688	2, 4 and 5	30.12.23

Municipality or Centre	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Page 19 Columns No.	Date Supply First Undertaken by Commission.
Country—continued.  Ranceby	Gipps. Bend. N/E. Mid. E/M. Mid. E/M. S/W. Mid. Gipps. Mid. S/W. E/M. Gipps. Mid. S/W. E/M. Gipps. Mid. E/M. O/E. Gipps.	Korumburra Inglewood Wodonga Kyneton Mornington Maryborough Greensborough Colac Sunbury Ringwood Rochester Bacchus Marsh Warragul Sunbury Port Fairy Rosebud Traralgon Bacchus Marsh Dandenong Alexandra Leongatha Rutherglen Korumburra Sorrento	A.C., I ph	74 400 (See k 150 672 4 262 35 593 8,269 1,877 164 140 921 100 2,537 515 84 77 72 70 1,563 1,69	11   63   63   63   64   65   65   65   65   65   65   65	3, 4 and 5	23.6.4I 3.7.40 14.1.47 27.3.47 30.6.37 17.7.50 24.5.40 28.8.44 7.3.29 1.4.25 1.8.35 3.4.39 4.4.35 19.3.29 30.9.36 8.12.27 15.8.27 28.3.47 5.7.45 4.9.27 19.4.28 15.10.26 14.1.41 16.12.27
Sale Rural Sale Sassafras Scarsdale Scoresby Scotsburn Seaford Sebastian Selby Seymour Seymour Rural Shepparton East Shepparton Fural Sherbrooke Shoreham Silvan Skipton Smeaton Smythesdale Somers Somerton Somerville Sorrento South Belgrave South Ecklin South Gisborne South Purrumbete South Purrumbete South Purrumbete South Furrumbete South Furr	Gipps.  Gipps.  BalM.  Be/MI.  Be/Be/MI.  Be/Be/Be/Be/Be/Be/Be/Be/Be/Be/Be/Be/Be/B	Sale Sale Sale Belgrave Ballarat Dandenong Ballarat Frankston Inglewood Belgrave Seymour Seymour Shepparton Shepparton Shepparton Shepparton Lilydale Ballarat Daylesford Ballarat Mornington Melbourne Frankston Sorrento Belgrave Terang Sunbury Camperdown Port Fairy Ballarat Rutherglen Daylesford Dandenong Sunshine Yarrawonga Kyabram Willaura Camperdown Leongatha Maffra Echuca Bendigo Cobram Willaura Korumburra Sunbury Colac Lakes Entrance Sunbury Colac Lakes Entrance	A.C., 3 ph   A.C., 3 ph. and I ph. A.C., 1 ph   A.C., 1 ph   A.C., 3 ph. and I ph. A.C., 3 ph   A.C., 3 ph   A.C., 3 ph   A.C., 3 ph. and I ph. A.C., 1 ph   A.	6,000 450 576 125 438 169 1,836 100 291 3,115 157 9,400 1,310 201 110 349 475 188 203 403 104 421 1,116 470 25 (See Gi 23 80 176 247 60 3,765 1,436 283 462 23 403 104 110 110 110 110 110 110 110	1,621 205 305 29 85 444 666 27 120 984 95 2,762 476 46 55 35 85 175 58 135 119 721 68 11 16 10 78 14 1,541 312 51 330 8 10 73 11 10 11 11 11 11 11 11 12 13 13 14 14 14 15 15 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	2, 4 and 5 5 3, 4 and 5 5 5 3, 4 and 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.7.24 12.12.28 9.7.27 5.9.39 23.9.37 3.11.44 21.2.28 3.2.48 12.12.35 2.10.44 2.10.44 1.1.25 25.2.36 17.8.39 29.7.27 24.5.40 13.6.28 27.10.39 16.4.38 2.9.39 16.4.38 2.9.39 24.12.35 22.7.38 19.12.26 1.10.27 17.2.37 24.9.45 1.5.37 25.5.39 31.8.38 7.2.45 6.9.26 22.6.51 5.12.24 14.2.30 14.6.38 8.11.40 20.12.37 14.9.36 20.12.26 5.11.35 13.3.45 19.2.35 28.9.39 14.4.48 1.5.26 4.6.37 11.7.30 14.10.38
Tabor Talbot Tallangatta Tallarook Tallygaroopna Tally Ho Tambo Upper Tandarra Tandarook Tangambalanga Tanjil South	S/W. Mid. N/E. N/E. N/E. E/M. Gipps. Bend. S/W. N/E. Gipps.	Hamilton Maryborough Wodonga Seymour Shepparton Dandenong Lakes Entrance Inglewood Camperdown Wodonga Moe	A.C., I ph.*	12 516 894 210 254 291 110 100 50 186 120	5 129 289 43 75 105 31 18 9 82 45	3, 4 and 5 3, 4 and 5	3.2.50 27.8.38 1.11.40 29.6.49 22.10.33 9.3.28 24.12.37 9.11.44 25.5.39 12.4.39 27.5.37

Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office).	System of Supply.	Population.	Number of Consumers.	Tariffs as per Page 19 Columns No.	Date Supply First Undertaken by Commission.
Country—continued.  Taradale	Mid. Gipps. N/E. Mid. Metro. Gipps. S/Ps. N/E. S/W. S/Ps. S/W. S/W. S/W. S/W. S/W. S/W. S/W. S/W.	Kyneton Warragul Wangaratta Maryborough Werribee Yarram Hamilton Leongatha Shepparton Myrtleford Belgrave Terang Terang Camperdown Warragul Ringwood Greensborough Alexandra Trafalgar Terang Maffra Echuca Shepparton Traralgon Foster Koo-wee-rup Lakes Entrance Rochester Queenscliff Warragul Ballarat Port Fairy Trafalgar Trafalgan Traralgon	A.C., 3 ph. and I ph. A.C., 1 ph. A.C., 3 ph. A.C., 3 ph. A.C., 3 ph. A.C., 1 ph. A.C., 1 ph. A.C., 3 ph. A.C., 1 ph. A.C., 3 ph. and 1 ph. A.C., 1 ph. A.C., 1 ph. A.C., 3 ph. and 1 ph. A.C., 1 ph. A.C., 3 ph. and 1 ph. A.C., 3 ph. and 1 ph. A.C., 1 ph. A.C., 3 ph. and 1 ph. A.C., 1 ph. A.C., 3 ph. and 1 ph. A.C., 1 ph. A.C., 3 ph. and 1 ph. A.C., 1 ph. A.C., 3 ph. and 1 ph. A.C., 1 ph. A.C., 3 ph. and 1 ph. A.C., 1 ph. A.C., 1 ph. A.C., 1 ph. A.C., 3 ph. and 1 ph. A.C., 1 ph.	2,600 1,650 18 125 699 909 195 220 500 400 580 209 205 750 390 103 (See Ni 700 50 25 40 1,600 220 300 6,820 175 185	50 16 4 72 36 23 31 11 519 204 21grave) 80 80 108 238 260 110 80 108 232 486 119 71 222 94 39 39 39 39 39 39 39 39 39 39	3, 4 and 5 5 5 5 5 5 3, 4 and 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	23.6.50 23.8.38 12.5.38 24.2.50 12.12.46 31.7.46 18.11.49 30.6.50 1.11.26 15.5.46 3.9.28 4.3.24 9.1.36 15.5.39 27.5.41 13.9.39 1.6.28 19.7.27 23.12.37 27.5.49 11.7.28 12.9.26 1.12.39 11.7.28 12.9.26 1.12.39 11.3.2.40 25.7.46 1.12.39 11.3.2.40 25.7.46 1.12.39 11.3.2.40 25.7.46 1.12.39 11.3.2.40 25.7.46 1.9.30 22.1.40 10.8.38 30.6.35 16.10.23 24.11.48 3.4.28 24.11.28 12.8.37 5.4.45 2.9.27 8.5.39 17.10.38 18.3.39 17.10.38 18.3.39 17.10.38 18.3.39 17.10.38 18.3.39 17.10.38 18.3.39 17.10.38 18.3.39 17.10.38 18.3.39 17.10.38 18.3.39 17.10.38 18.3.39 17.10.38 18.3.39 17.10.38
Upper Beaconsfield Upper Ferntree Gully Upper Maffra West Upwey	E/M. E/M. Gipps. E/M.	Pakenham Belgrave Maffra Belgrave	A.C., I ph A.C., 3 ph. and I ph. A.C., I ph A.C., 3 ph. and I ph.	185 1,129 260 1,686	90 457 62 845	3, 4 and 5 2, 4 and 5 3, 4 and 5 2, 4 and 5	1.8.34 24.8.25 6.10.37 24.8.25
Valencia Creek Vervale Violet Town	Gipps. Gipps. N/E.	Maffra Koo-wee-rup Benalla	A.C., I ph A.C., I ph A.C., 3 ph	100 160 722	23 45 168	3, 4 and 5 3, 4 and 5 3, 4 and 5	11.6.38 10.7.42 1.3.36
Waaia Wahgunyah Wallace Wallington Walpa Wangaratta Wangaratta North Wangoom Wannon Wantirna Wantirna South Warragul Warragul Warragul Rura! Warrandyte Warrandyte Warrandbool Warrnambool Warrnambool Warrong Watsonia Wattle Flat Wallington	N/E. N/E. Ball. Geel. Gipps. N/E. N/E. S/W. E/M. E/M. S/W. Gipps. E/M. Ball. S/W. S/W. Ball. Ball.	Numurkah Rutherglen Ballarat Queenscliff Bairnsdale Wangaratta Wangaratta Warrnambool Hamilton Ringwood Dandenong Warburton Colac Warragul Warragul Ringwood Ballarat Colac Warrand Ringwood Ballarat Colac Warrnambool Warrnambool Port Fairy Greensborough Ballarat Ballarat	A.C., 3 ph	56 601 209 110 50 6,900 37 (See Wa 36 44 748 67 1,727 35 4,600 985 258 95 11,000 2,530 20 272 45	18 135 44 42 34 2,507 23 ngaratta) 8 9 224 25 487 9 1,289 235 412 64 28 3,100 588 3 100 20 36	3, 4 and 5 2, 4 and 5 3, 4 and 5	5.11.40 1.2.26 17.5.40 1.9.47 16.5.35 12.3.27 20.5.36 3.5.38 9.5.39 3.12.48 1.2.28 18.2.47 1.7.44 19.12.25 1.12.30 19.6.28 21.12.35 10.6.48 18.8.24 30.12.23 9.1.36 20.4.40 24.3.26 6.10.50 18.12.40

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Municipality or Centre.	Branch.	Location of Officer-in-Charge (District Office),	System of Supply.	Population.	Number of Consumers.	Tariffs as per Page 19 Columns No.	Date Supply First Undertaken by Commission.
Country—continued.							
Waurn Ponds	Geel.	Geelong	A.C., I ph	100	24	3, 4 and 5	26.11.45
Weerangourt	S/W.	Port Fairy	A.C., I ph	20	2	3, 4 and 5	29.9.45
Weerite   Wellsford	S/W. Bend.	Camperdown	A.C., 3 ph. and 1 ph.* A.C., 3 ph. and 1 ph.	25 20	10	3, 4 and 5	8.6.28
Wellstord Welshpool	Gipps.	Bendigo Foster	A.C., 3 ph. and 1 ph. A.C., 3 ph. and 1 ph.	330	103	3, 4 and 5 3, 4 and 5	25.1.43 13.8.38
Werribee	Metro.	Werribee	A.C., 3 ph. and 1 ph.	4,152	1,075	2, 4 and 5	10.4.24
Werribee South	Metro.	Werribee	A.C., 3 ph. and 1 ph.	1,130	264	3, 4 and 5	24.11.36
Wesburn	E/M.	Warburton	A.C., 3 ph. and 1 ph.	452	90	3, 4 and 5	15.8.49
Westbury Westmere	Gipps. S/W.	Moe Willaura	A.C., I ph	35 75	16   22	3, 4 and 5 3, 4 and 5	27.5.37 30.9.38
Wheeler's Hill	E/M.	Dangenong	A.C., 1 ph	287	76	2, 4 and 5	1.2.26
Whitelaw	Gipps.	Korumburra	A.C., I ph	60	15	3, 4 and 5	12.2.51
Whittlesea	E/M.	Greensborough	A.C., I ph	551	164	3, 4 and 5	28.9.37
Whorouly Whorouly East	N/E. N/E.	Myrtleford	A.C., 3 ph A.C., 1 ph	340 (See Wh	158	3, 4 and 5 3, 4 and 5	2.6.42
Whorouly South	N/E.	Myrtleford	A.C., I ph A.C., I ph		norouly)	3, 4 and 5	24.7.45
Willatook	s/w.	Port Fairy	A.C., I ph.*	` 40	´´13	3, 4 and 5	23.5.40
Willaura	S/W.	Willaura	A.C.,   ph	470	152	3, 4 and 5	23.9.38
Willaura Rural	S/W. Gipps.	Willaura Moe	A.C., I ph	1,220 89	293 41	3, 4 and 5 3, 4 and 5	23.9.38
Willowgrove Winchelsea	S/W.	Moe Colac	A.C., I ph A.C., 3 ph. and I ph.*	775	204	3, 4 and 5	22.5.39 30.6.24
Windermere	Ball.	Ballarat	A.C., 3 ph. and 1 ph.	119	69	3, 4 and 5	21.10.47
Winslow	S/W.	Warrnambool	A.C., I ph.*	103	8	3, 4 and 5	29.10.47
Wiseleigh	Gipps. N/E.	Lakes Entrance	A.C., I ph	3,680	20 991	3, 4 and 5	24.10.30
Wodonga	N/E.	Wodonga Wodonga	A.C., 3 ph	45	8	2, 4 and 5 3, 4 and 5	1.11.33 8.8.38
Wollert	E/M.	Greensborough	A.C., I ph	168	55	3, 4 and 5	2.5.47
Wonga Park	E/M.	Ringwood	A.C., I ph	228	56	3, 4 and 5	18.5.38
Won Wron Woodend	Gipps. Mid.	Yarram Woodend	A.C., I ph A.C., 3 ph. and I ph.	95 1, <b>49</b> 6	30 434	3, 4 and 5 3, 4 and 5	24.10.50
Woodend Woodford	S/W.	Warrnambool	A.C., 3 ph. and 1 ph. A.C., 1 ph.*	290	22	3,4 and 5	8.12.49
Woodglen	Gipps.	Bairnsdale	A.C., 3 ph. and 1 ph.	50	32	3, 4 and 5	16.4.40
Woodvale	Bend.	Bendigo	A.C., I ph	50	7	3, 4 and 5	2.6.41
Wool Wool Woorndoo	S/W. S/W.	Colac Willaura	A.C., 3 ph. and 1 ph.* A.C., 1 ph.*	37 40	10	3, 4 and 5 3, 4 and 5	15.10.24 8.12.38
Woorndoo Wunghnu	N/E.	Willaura   Numurkah	A.C., 1 ph.*	231	58	3, 4 and 5	1.10.33
Nurruk	Gipps.	Sale	A.C., I ph	100	33	3, 4 and 5	27.8.47
Ny Yung	Gipps.	Bairnsdale	A.C., 3 ph. and I ph.	50	12	3, 4 and 5	28.9.28
Yackandandah	N/E.	Wodonga	A.C., 3 ph	396	168	3. 4 and 5	20.12.39
Yallock	Gipps.	Koo-wee-rup	A.C., I ph	120	36	3, 4 and 5	25.11.37
Yallook	Bend.	Inglewood	A.C., I ph	80	27	3, 4 and 5	29.9.47
Yangery Yannathan	S/W. Gipps.	Port Fairy   Koo-wee-rup	A.C., I ph.*	30 290	117	3, 4 and 5 3, 4 and 5	22. <b>6</b> .38 8.2.36
Yan Yean	E/M.	Greensborough	A.C., I ph	156	46	3, 4 and 5	28.9.37
Yapeen	Mid.	Castlemaine	A.C., I ph	164	22	3, 4 and 5	19.3.51
Yarraberb	Bend.	Inglewood	A.C.,   ph	50	4 92	3, 4 and 5	9.7.44
Yarra Glen Yarragon	E/M. Gipps.	Lifydale Trafalgar	A.C., I ph A.C., 3 ph. and I ph.	380 810	304	3, 4 and 5 3, 4 and 5	15.3.34
Yarra Junction	E/M.	Warburton	A.C., 3 ph. and 1 ph.	758	194	3, 4 and 5	1.3.49
Yarram	Gipps.	Yarram	A.C., 3 ph. and 1 ph.	1,740	566	3, 4 and 5	31.7.46
Yarrambat	E/M.	Greensborough	A.C., I ph	3.064	17	3, 4 and 5	28.11.45
Yarrawonga Yarroweyah	N/E. N/E.	Yarrawonga Cobram	A.C., 3 ph A.C., 3 ph. and 1 ph.	3,064 240	792 181	2, 4 and 5 3, 4 and 5	1.8.25
farroweyan Yatchaw	s/w	Hamilton	A.C., 1 ph	6	2	3, 4 and 5	26. 6. 51
Yea	Ń/E.	Alexandra	A.C., 3 ph	1,000	395	3, 4 and 5	1.5.45
Yering	E/M.	Lilydale	A.C., 1 ph	63	21	3, 4 and 5	24.2.3 <del>4</del>
Yeringberg	E/M.	Healesville	A.C., I ph	83	27	3, 4 and 5	7.7.33
Yinnar	Gipps.	Morwell	A.C., 3 ph. and 1 ph.	436	175	3, 4 and 5	28.11.27

<sup>\* = 230</sup> 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	Branch Title.			eviation.	Location of Branch Headquarters.	Telephone.
Metropolitan			Metro.		 238–242 Flinders Street, Melbourne	MU 9021 JM 1525 C. 10310
Ballarat Bendigo Geelong Eastern Metropolitan			Ball. Bend. Geel. E/M.	  	 I-7 Wendouree Parade, Ballarat	1825 1700 5941 182 64
Sippsland			Gipps.		 108–116 Franklin Street, Traralgon	168 192 491 492 493
Midland			Mid.		 40 Lyttleton Street, Castlemaine	238
North-Eastern South-Western			N/E. S/W.		 80 Bridge Street, Benalla	196 567 661

### LIST OF DISTRICT OFFICES.

			<u> </u>	1	
District Office.	Address.	Telephone.	District Offic <b>e.</b>	Address.	Telephone.
Alexandra	Grant Street, Alexandra	88	Mornington	64 Main Street, Mornington	247
	High Street, Yea	105	Morwell	Cr. Princes Highway and Collins	101
Bacchus Marsh Bairnsdale	Main Street, Bacchus Marsh 159 Main Street, Bairnsdale	236 333	Myrtleford	Street, Morwell Myrtle Street, Myrtleford	60
Bairnsdale Beechworth	Camp Street, Beechworth	132	Myrtleford Numurkah	Myrtle Street, Myrtleford Melville Street, Numurkah	36
Belgrave	Main Road, Belgrave	127	r dilliar kan	Blake Street, Nathalia	54
Benalla	26A Carrier Street, Benalla	567	Pakenham	Main Street, Pakenham East	129
	Cowslip Street, Violet Town	47	Port Fairy	Sackville Street, Port Fairy	123
Camperdown	151 Manifold St. Camperdown	94	Queenscliff	Hesse Street, Queenscliff	92
Castlemaine Chelsea	40 Lyttleton Street, Castlemaine	196 and 238 45	Ringwood	187 Whitehorse Road, Ring- wood	WU 6621
C	420 Nepean Highway, Chelsea William Street, Cobram	45	Rochester	Gillies Street, Rochester	129
Cobram	119–121 Murray Street, Colac	661	Rosebud	Nepean Highway, Rosebud	330
Dandenong	197 Lonsdale Street, Dandenong	182, 192, 168		Nepean Highway, Dromana	Rosebud, 271
J		and 64	Rutherglen	Main Street, Rutherglen	98
Daylesford	Vincent Street, Daylesford	257	6.1	Conness Street, Chiltern	31
E.chuca	196 Hare Street, Echuca	321 162	Sale	78 Raymond Street, Sale	89
Euroa Foster	Binney Street, Euroa Main Street, Foster	50	Seymour Shepparton	Station Street, Seymour Maude Street, Shepparton	80 49 and 747
Frankston	Cr. Wells Street and Nepean	109	Shepparton	Maude Street, Shepparton Ocean Amphitheatre Road.	45
Trainiston Tr	Highway, Frankston			Sorrento	
Greensborough	Main Street, Greensborough	JL 7063	Sunbury	Evans Street, Sunbury	14
Hamilton	McLuckies Lane, Hamilton	734	Sunshine	241 Hampshire Road, Sunshine	MW 9648
Healesville	Nicholson Street, Healesville	165	Terang	High Street, Terang	47
Inglewood Koo-wee-rup	Brooke Street, Inglewood Station Street, Koo-wee-rup	105 41	Trafalgar Traralgon	Main Street, Trafalgar 108-116 Franklin Street, Tra-	50 <b>4</b> 90
Koo-wee-rup Korumburra	Commercial Street, Korumburra	29	I raralgon	ralgon	770
Kyabram	Allan Street, Kyabram	221	Wangaratta	110 Murphy Street, Wangaratta	262 and 734
Kýneton	35 High Street, Kyneton	151	Warburton	Main Street, Warburton	93
Lakes Entrance	Main Street, Lakes Entrance	76	Warragul	Victoria Street, Warragul	151
Leongatha	44 Bair Street, Leongatha	176 38	Warrnambool Werribee	138 Koroit Street, Warrnambool	75
Lilydale Lorne	Main Street, Lilydale Cr. Mountioy Parade and	36 29	Werribee Willaura	Watton Street, Werribee Cr. Main and Station Streets,	5
LOTTIC	William Street, Lorne	27	vvillauja	Willaura	143
Maffra	Johnston Street, Maffra	27	Wodonga	High Street, Wodonga	63
Mansfield	High Street, Mansfield	40		Towong Street, Tallangatta	91
Maryborough	112-114 High Street, Mary-	207	Woodend	High Street, Woodend	74
Moe	borough George Street, Moe	69	Yarram Yarrawonga	Commercial Road, Yarram Belmore Street, Yarrawonga	223 85
1 100	George Street, Moe	07	Yarrawonga	Definiore Street, Tarrawonga	<b>8</b> 0

### APPENDIX No. 17

### ELECTRICITY SUPPLY UNDERTAKINGS (MUNICIPAL AND PRIVATE.)

		·			
Municipality or Centre.	Supply Authority.	System of Supply.	Popu- lation.	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.	73,200	28,955	Metropolitan Standard Tariffs
Box Hill, and City of Nuna-	Box Hill City Council	A.C., 3 ph., 230–400 v.	32,600	11,605	apply in all these territories with the exception of that of the
wading Brunswick Coburg Footscray and part of Bray- brook Shire	Brunswick City Council Coburg City Council Footscray City Council	A.C., 3 ph., 230–400 v. A.C., 3 ph., 230–400 v. A.C., 3 ph., 230–400 v.	60,000 57,315 65,000	15,494 14,807 17,474	Melbourne City Council, which has the following Metropolitan Standard Tariffs only—Residential, All-Purposes, Night Rate Water Heating.  In addition to the above, the
Heidelberg (excl. Greensborough)	Heidelberg City Council	A.C., 3 ph., 230–400 v.	38,296	11,131	Melbourne City Council has Tariffs different from Standard for
Northcote Port Melbourne Preston Williamstown	Northcote City Council Port Melbourne City Council Preston City Council Williamstown City Council	A.C., 3 ph., 230–400 v. A.C., 3 ph., 230–400 v. A.C., 3 ph., 230–400 v. A.C., 3 ph., 230–400 v.	45,000 14,250 50,000 26,907	12,607 3,750 13,263 7,778	commercial and industrial lighting, radiators, and power and heating.
			462,568	136,864	
					Lighting. Power.
COUNTRY.					
Apollo Bay	H. A. Block	D.C., 230 v	700	223	Is. 3d. to Is. 6d. to 3d. Optional Tariff—Is. 5d. per room
Ararat	Ararat City Council	A.C., 3 ph., 230–400 v.	6,900	1,666	per month, plus 6d. per kWh. 9d. to I\(\frac{1}{4}\)d. \  3\(\frac{1}{2}\)d. to I\(\frac{1}{4}\)d. Optional domestic tariff—2 kWh. per room per month at 9d. per kWh. Next 30 kWh. 2\(\frac{1}{2}\)d.
Beaufort Beulah Birchip Boort	Ripon Shire Council	A.C., 3 ph., 230–400 v. D.C., 230–460 v. D.C., 230 v. D.C., 230 v.	1,500 575 600 600	375 158 240 228	All further kWh. 1½d.  10d.
Casterton	lce Co. Ltd. Casterton Electric Supply Co.	D.C., 230 v	2,200	573	IId. to 9d. 6d. to 4d.
Charlton	Pty. Ltd. Charlton Electric Light & Power	D.C., 230 v	1,300	428	is. to 9d. 6d. to 4d.
Cohuna	Co. Ltd. Gunbower Co-operative Butter	A.C., 3 ph., 230-400 v.	1,050	410	ls. to 9d. 6d. to 2d.
Corryong Cowes Dimboola Donald *Doncaster	Factory & Trading Co. Ltd. Upper Murray Shire Council Phillip Island Shire Council Dimboola Shire Council Donald Shire Council Doncaster Shire Council	A.C., 3 ph., 230–400 v. A.C., 3 ph., 230–400 v. D.C., 230–460 v. D.C., 230 v. A.C., 1 ph., 200–400 v.	700 500 1,800 1,500 2,600	209 223 544 447 873	1s. 3d.   6d. to 3d.     1s. 1d. to 10d.   6\frac{1}{2}d. to 4d.     1s. to 8d.   6d. to 3d.     1s. to 10d.   6d. to 2\frac{3}{4}d.     1d. 7d.   1d. 4d. to 1d.     Optional Tariff—1s. 6d. per room
Edenhope Goroke	Edenhope E.S. Co. Pty. Ltd Goroke Freezing & Trading Co.	D.C., 230 v D.C., 230 v	600 390	82 96	per month, plus l½d. per kWh. 1s. 3d   9d. 1s. 4d   6d.
Gunbower	Pty. Ltd. Gunbower Co-operative Butter Factory and Trading Co. Ltd.	D.C., 230 v	260	56	Is. 3d. to 9d 6d. to 3d.
Heathcote Heywood Hopetoun	McIvor Shire Council	D.C., 230–460 v. A.C., 3 ph., 230–400 v. D.C., 230 v.	1,400 1,200 800	293 260 251	Is. 6d 9d. to 7d. Is. 4d. to Is. Id. 7d. IId. 5d.
Horsham Jeparit	Horsham City Council S.F. Block (trading as "Jeparit Electric Light and Power	D.C., 230–460 v. A.C., 3 ph., 230–400 v. D.C., 230 v.	6,700 825	1,949 263	9½d Dom. 4¼d. to 2d. Ind. 9½d. to 1·85d 7d.
Kaniva Kerang (including	Station"), Kaniva Shire Council Kerang Shire Council	A.C., 3 ph., 230–400 v. A.C., 3 ph., 230–400 v.	760 3,000	282 89 <b>2</b>	Is. 2d 6d. to 4d. 9d. to 2d 5d. to $1\frac{1}{2}$ d.
Koondrook) Kilmore	Kilmore Shire Council J. Andrews Mildura City Council	D.C., 230 v. D.C., 230 v. A.C., 3 ph. 230–400 v.	1,200 400 18,000	260 88 5,802	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Minyip	Dunmunkle Shire Council	D.C., 230 v	700	205	Is. 3d. per room per month, plus I <sup>a</sup> d. per kWh. Is   8d. to 2d.

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

Municipality or Centre.	Supply Authority,	System of Supply.	Popu- lation.	Number of Consumers.	Tariffs	
					Lighting.	Power.
COUNTRY—cont.			l			
Murrayville Murtoa Nagambie Natimuk Nhill	Walpeup Shire Council Dunmunkle Shire Council Goulburn Shire Council H.C. Woolmer Lowan Shire Council Omeo Electric Supply and Motor Co, Pty, Ltd.	A.C., 3 ph., 230–400 v. D.C., 230 v. D.C., 230–460 v. A.C., 3 ph., 230–400 v. D.C., 230–460 v. A.C., 3 ph., 230–400 v.	400 1,148 900 500 1,980 250	95 349 267 126 611 95	ls. 6d 9d 10d Is. 3d. to ls 9d Is. 6d	7d. to 5d. 4d. to 2d. 6d. 7d. to 5d. 5d. to 3½d. 6d.
Orbost	Orbost Butter Produce Co.	D.C., 230 v	2,000	578	ls. to IId	7d. to 5d.
Ouyen Port Campbell	Walpeup Shire Council Port Campbell Elec. Supply Co. Ptv. Ltd.	D.C., 230–460 v D.C., 230 v	1,100 400	310 30	ls. 2d	5d. 9d.
Portland Pyramid Quambatook Rainbow Robinvale	Portland Town Council Gordon Shire Council Kerang Shire Council Frank Dawson Pty. Ltd. Swan Hill Shire Council	A.C., 3 ph., 230–400 v. A.C., 3 ph., 230–400 v. D.C., 230 v. D.C., 230 v. A.C., 3 ph., 230–400 v.	4,000 500 500 1,000 500	1,277 142 127 222 94	10d. to 6d   1s. 3d. to 6d   1s. to 9d   1s. to 8d   1s. 6d   Optional Tariff-	ls. 6d. per roor
Rupanyup Rushworth Serviceton Stawell St. Arnaud	Dunmunkle Shire Council Waranga Shire Council C. C. Wallis Stawell Borough Council St. Arnaud Town Council	D.C., 230 v D.C., 230 v D.C., 230 v A.C., 3 ph., 230–400 v. A.C., 3 ph., 230–400 v.	700 1,300 175 4,900 3,000	175 373 37 1,566 887	Is. Id Is. 2d. Is 9d IId. to 6d Optional Tariff-	
Swan Hill (Borough)	Swan Hill Borough Council	A.C., 3 ph., 230–400 v.	5,000	1,309	8d. to 3d	5d. to l¾d.
† Swan Hill (Rural Supply)	Swan Hill Shire Council	A.C., 3 ph., 230–400 v.	11,000	1,279		   5d. to 3½d.  - s. 4d. per roor  us 3½d. per kWh
Underbool Walwa Warracknabeal Wedderburn (Incl. Korong	A. J. Gloster	D.C., 230 v. D.C., 230 v. A.C., 3 ph., 230–400 v. A.C., 3 ph., 230–400 v.	200 250 2,800 1,600	56 29 842 358	Is. 6d	1 9d. to 7d. 9d. 6d. to 3½d. 6d. to 2½d.
Vale) Wonthaggi Woomelang Wycheproof (Incl. Sea Lake and Inter- mediate Towns)	State Coal Mine E. H. & L. J. Bailey Wycheproof Shire Council	A.C., 3 ph., 240–415 v. D.C., 230 v. A.C., 3 ph., 230–400 v.	5,230 410 3,000	1,5 <b>9</b> 0 66 658	7d Is. 6d IId. to 9d	3d. to $1\frac{1}{2}d$ . 9d. 5d. to 2d.

<sup>\*</sup> Supplied in bulk by State Electricity Commission.

### **NEW SOUTH WALES UNDERTAKINGS (BULK SUPPLIES.)**

Municipalities of Albury, Berrigan, Coreen, Corowa, and Moama purchased from the State Electricity Commission of Victoria 28,504,385 kWh during the year.

<sup>†</sup> Supplied in bulk by Swan Hill Borough Council.

