1954-55

VICTORIA

## STATE ELECTRICITY COMMISSION OF VICTORIA

### THIRTY-FIFTH ANNUAL REPORT

FOR THE

### FINANCIAL YEAR ENDED 30TH JUNE, 1954

TOGETHER WITH

### **APPENDICES**

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

Sp Anthority .

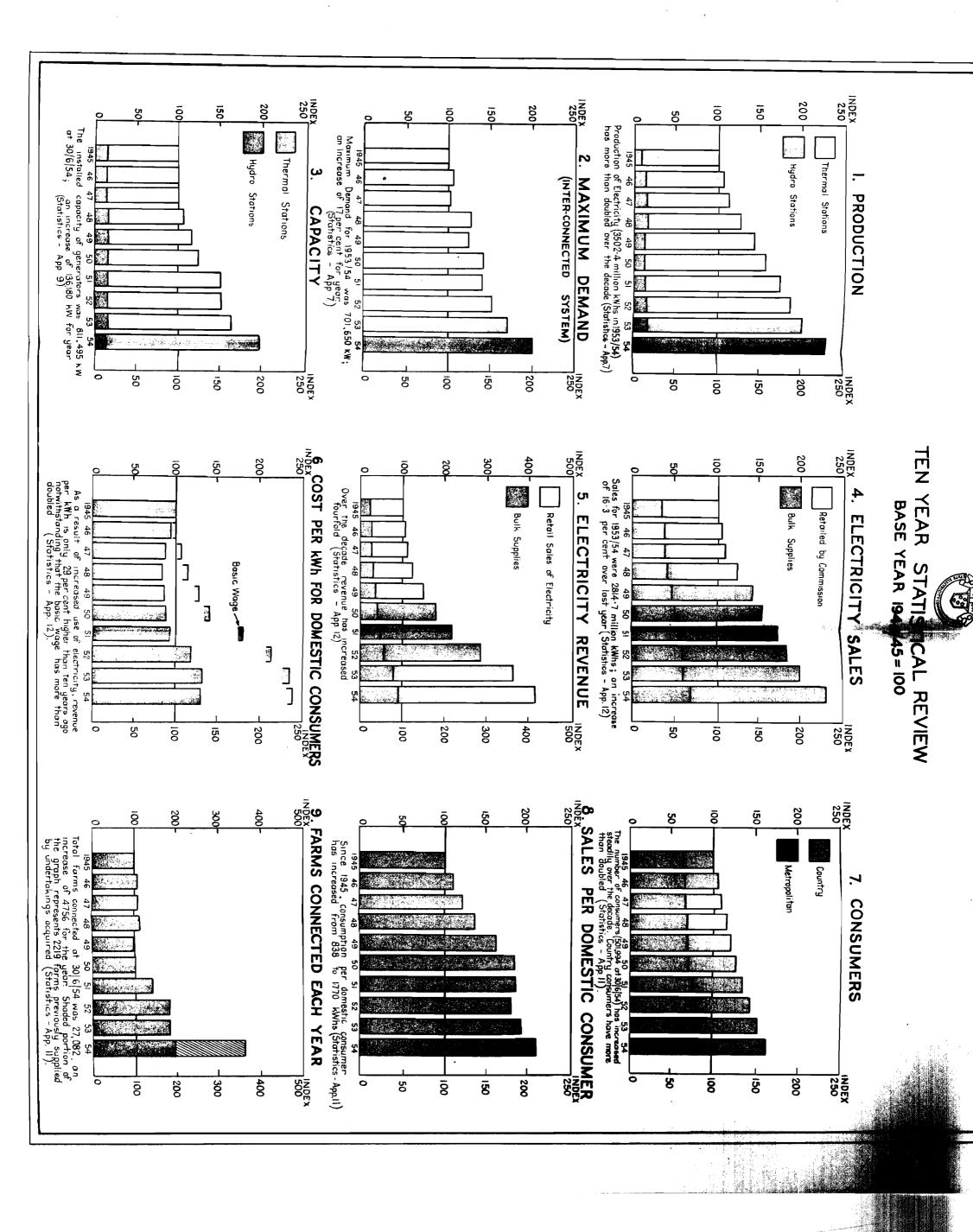
W. M. HOUSTON, GOVERNMENT PRINTER. MELBOURNE

10 37 - 54 Jan.

### STATE ELECTRICITY COMMISSION OF VICTORIA

-									Increase or		
							1953–54		Decrease	Per	centage
INCOME—							1			İ	
Electricity Supply Briquetting (afte		 ustment	 and I	 ess Salo	 es to	£	22,117,381	+	2,927,867	+	15-3
Works)		;	•••	•••		£	884,652		47,829	-	5.1
Brown Coal (less Tramways		orks)	•••	•••	•••	£	484,330 184,756	++	62,299 160	: +	14·8 0·1
Miscellaneous						£	9,860	+	1,917	++	24·1
	TOTAL IN	COME				£	23,680,979	+	2,944,414	+	14.2
EXPENDITURE ('n	cl. Appropr	iations,	Writ	ings of	f etc.)	£	23,321,485	+	2,928,071	+	14.4
NET SURPLUS						£	359,494	+	16,343	+	4.8
CAPITAL EXPEND	ITURFAt	end of	Year			£	173,313,439	+	22,927,408	. —	15.2
RESERVES—At en						£	24,533,646	+	2,012,556	+	8.9
								I			
MAXIMUM COING STATIONS (28			ON I	POWE	R 	kW !	701,650	+	99,340	+	16.5
ELECTRICITY GEN	VERATED-	•••		k۱	∕Vh-m	illions	3,502·4	+	482.0	+	16.0
ELECTRICITY SAL	ES			k١	∕Vh-m	illions	2,814.7	+	394 · 9	+	16-3
NUMBER OF CO	SUMERS (	excludir	ng Bul	k Supp	olies)	•••	501,994	! +	*33,033	+	7.0
AVERAGE kWh S				-		i				i	
Domestic Commercial	•••		•••	•••	•••	•••	1,770	+	170	+	10.6
All Consumers (	excluding Bu	ılk Supr	olies)				4,330 4,037	+	354	+	8.9
Per Head of Pop	ulation (Vict	oria)				•••	1,095	+	341 112	! +	9·2 11·4
AVERAGE PRICE	PER kWh S	OLD-								1	
Domestic						d.	2. <b>2</b> 97	~	0.046	! -	2.0
Commercial Industrial	•••	•••	• • •	• • • •	• • • •	d.	3.120	, +	0.042	+	1.4
All Consumers (	excluding Ru	ılk Supr	(عمال	•	•••	d.	1.685	_	0.012	-	0.7
MOTORS CONNE		nk Supp	iles)	•••	•••	d. ;	2.106	i	0.023		1.1
Number		,				•••	121,664		0.401		
Horse-power		•••	•••				657,970	+	9,491 44,115	++	8·5 7·2
NUMBER OF FAR	MS SERVED	·					27,082	+	*4,756	+	21 · 3
RIQUETTES—										i	
Produced Sold and used at	Power Stati	 ons				tons tons	587,252	+	42,279	· · +	7.8
BROWN COAL P	RODUCED-				•••	LONS	612,394	+	57,736	+	10.4
Yallourn Open C	ut		• • • •			tons	6,718,750	1.	222 444		
Yallourn Open C	Joen Cut					tons	1,262,094	, +	328,462	+	5
Yallourn North ( RAMWAY PASSE		•••	•••				1,202,074	+	80,442	+	68

<sup>\*</sup> Includes 8,344 consumers (2219 farms) previously supplied by undertakings acquired during the year.



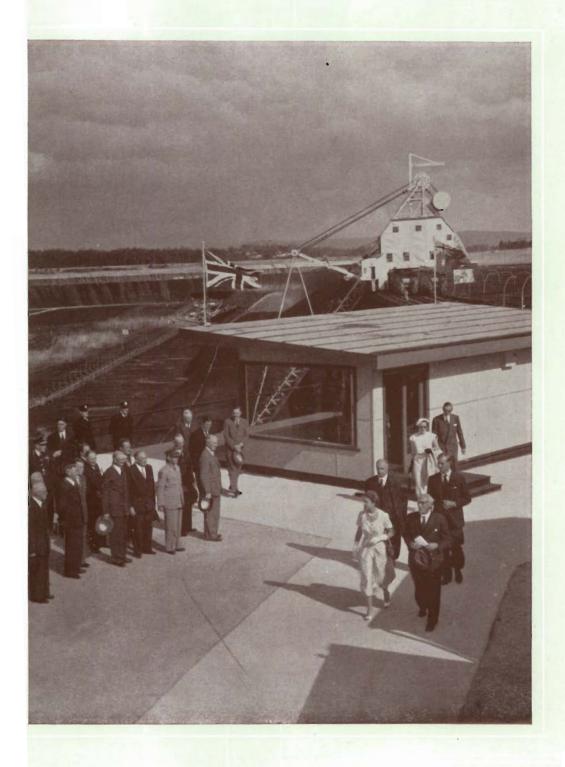
### TABLE OF CONTENTS

Pa	ge
Ten-Year Statistical Review	Yallourn Power Station 1:
Features of Year's Operations	2 Kiewa Hydro-Electric Project 14
Royal Visit to Yallourn	Morwell Power and Fuel Project 19
Financial	Regional Power Stations 1
	Main Managing and Distribution
Electricity Supply	
Major Works Programme — Power and Fuel	Power Production 10
Parliamentary Visits to Yallourn, Morwell and Kiewa	6 Coal Production 18
	Briquette Production and Distribution 19
Annual Accounts	Fuel Supplies 19
Summary of Income and Expenditure  Assets and Liabilities	The state of the Country
Deserve	8 Electricity Supply
	Analysis of Development 26
Capital Expenditure	Commission's Undertakings for Local Distribution 23
Morwell Power and Fuel Project	Branch Transmission and Distribution 23
Snowy Mountains Hydro-Electric Scheme	Tramways — Ballarat, Bendigo and Geelong 28
Connections of New Consumers	
Final Phase of Rural Electrification of the State	Personnel 24
Electricity Supply Tariffs	Public Safety and Other Regulatory Responsibilities 25
Major Extensions Programme	Death of Mr. G. G. Jobbins Chairman 1937-49 26
	13 Staff 20

### APPENDICES

Profit and	Loss Account. Balance Sheet, and Financial Statist	tics								Page
No. 1	General Profit and Loss Account		******					.,		30
2	General Balance Sheet									31
3	Schedule of Fixed Capital						*****			32
4	Abstract of Capital, Revenue and Operating Acc	ounts								33
5	Schedule of Debentures and Inscribed Stock		*****						8	34 35
Statistics-	-Power Production									
No. 6	Generation of Electricity—All Supply Authorities									38
7	,, ,, ,, —S.E.C. Power Stations									39
8	(a) Load Factor-S.E.C. Power Stations		******	*****						40
	(b) Fuel used—S.E.C. Power Stations									40
9	Capacity of Generators and Boilers Installed	*****	*****			*****	*****		4	11-42
Statistics—	-Electricity Supply									
No. 10	Victorian Electricity Supply Undertakings-Samm	ary of	Consu	mer an	d Sal	es St	ntistics			44
11	Consumer Statistics (S.E.C.)		**							44
12	Electricity Sales and Revenue (S.E.C.)									45
1.3	Standard Tariffs			*****						46
14	Transmission and Distribution System									47
15	Country Undertakings Acquired-Increased development	opment	since	acquis	ition					48
	Map of State Supply System						.,			

NOTE: Information previously published in Annual Reports regarding electricity supply in Victorian centres served by the State Electricity Commission and Municipal and private undertakings is now published in a separate booklet, copies of which are obtainable on request.



Inspection of the Yallourn Open Cut by Her Majesty Queen Elizabeth II and H.R.H. the Duke of Edinburgh, 3rd March, 1954.

Honourable J. W. Galbally, M.L.C.,
Minister in Charge of Electrical Undertakings,
MELBOURNE.

Sir,

On the historic occasion of the visit to Australia by Her Majesty Queen Elizabeth II accompanied by His Royal Highness the Duke of Edinburgh, the opportunity was taken to affirm and place on record the continued loyalty and allegiance as subjects of Her Majesty of the Commission and of those engaged in the conduct of Her Majesty's electrical undertakings in this State. All experienced a deep pride and pleasure at the great honour bestowed by the inclusion of Yallourn in the Royal itinerary.

The visit to Yallourn on the 3rd March, 1954, by Her Majesty and His Royal Highness was a most memorable occasion. Following a civic welcome which enabled the Commission and the people of Yallourn to express their allegiance at the very heart of the Commission's operations, the Royal Couple spent some time inspecting with keen interest the Yallourn brown coal undertakings.

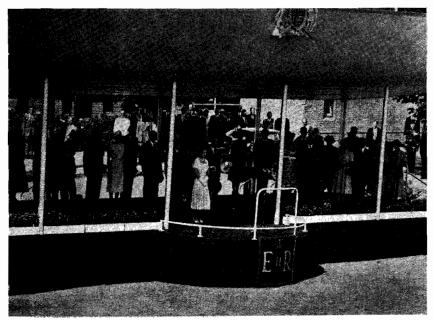
In conformity with the provisions of Section 35(b) of the State Electricity Commission Act No. 3776, we have the honour to present the Thirty-fifth Annual Report of the Commission covering the financial year ended 30th June, 1954, together with the Balance Sheet and Profit and Loss Account.

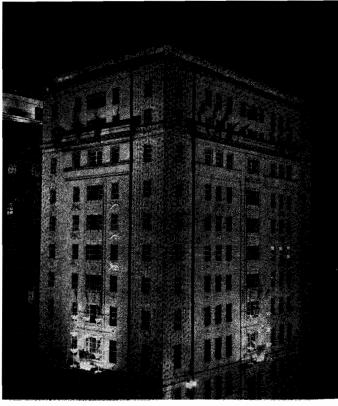
It is gratifying to Commissioners to report:-

- The year's financial results again were most successful.
- Electricity sales increased by 16 per cent. the annual increment was almost twice the largest previously recorded.
- 33,000 new consumers were supplied by the Commission, including 4,800 farms.
- Brown coal production reached 8 million tons the highest figure yet recorded.
- New plant increased the installed capacity of generators by 136,000 kW to 811,495 kW.
- Generating plant was adequate to meet the exceptionally large increase in the electricity requirements of consumers.
- Consumers will benefit by £333,500 per annum from reductions in electricity charges.

At right: Commission's Head Office, 22 William Street, Melbourne, decorated for the occasion of the Royal visit.

Below: Her Majesty Queen Elizabeth II and H.R.H. the Duke of Edinburgh at civic welcome, Yallourn, 3rd March, 1951.





The sound financial position of the Commission is reflected in the result of the year's operations. The surplus for the year was £359,494 (£343,151 last year) after providing full interest and depreciation, strengthening reserves to the extent of £250,000 and meeting £1,250,000 on account of interest and other expenditure arising directly from the need to defer certain capital works because of insufficient loan funds.

Income from all sources totalled £23,680,979 — an increase of £2,944,414 (14%). Expenditure was £2,992,715 (16%) higher.

The year's production results have been encouraging, despite a 2% increase in the basic wage since 1952/53. These results would have been better still were it not that high-priced solid fuel still has to be used for many thermal power stations other than Yallourn. The use of such fuel will diminish as plant extensions at Yallourn "C" and "D", and later the Morwell power and fuel project, permit the whole of the base load gradually to revert to Yallourn-Morwell and to be based on low cost raw brown coal. For example, the fuel cost today of Newport generation is three times that of Yallourn.

The continued successful financial result, coupled with the prospect of more stability in cost levels, enabled the Commission to reduce residential tariffs as from 1st July, 1954, and public lighting tariffs as from 1st October, 1954 (for further details see page 12).

Electricity sales totalled 2,815 million kilowatt-hours, an increase of 16 per cent.—compared with 8 per cent. in the previous year. 33,033 new consumers (4,756 farms) were supplied during the year, including 8,344 consumers (2,219 farms) previously supplied by undertakings acquired.

The Commission supplied (directly or indirectly) 98.5 per cent. of the electricity consumed in Victoria.

During the period under review, the construction of regional power stations at Geelong (30,000 kW), Ballarat (20,000 kW), Redcliffs (10,000 kW), Shepparton (10,530 kW) and Warrnambool (4,980 kW) was completed. In addition, the first set (50,000 kW) at the augmented Yallourn Power Station was placed in service, and at the Spencer Street Power Station (Melbourne City Council) a 30,000 kW set was completed.

An additional 136,000 kilowatts in the installed capacity of generators—the largest increase yet recorded—provided sufficient generating plant to meet the much higher electricity requirements of consumers (17 per cent. increase in maximum demand). Despite expenditures of large capital funds on this new plant, it has not been possible as yet to build up a reserve of generating capacity sufficient to safeguard against unexpected breakdowns or national and other emergencies.

The Commission again emphasises the need for a substantial plant reserve, the absence of which on many occasions caused it grave concern in maintaining a continuity of service to its consumers. At the present tempo of the construction programme, which is governed by the finance available, it is estimated — having regard for the probable increase in consumer demand — that it will be nearly 10 years before an appreciable reserve is available to the system.

The progress with extensions "C" and "D" at Yallourn Power Station and at the Kiewa Hydro-Electric Project is referred to on pages 13 & 14. Since the close of the year, work at the Morwell Project has been recommenced (references pages 10 & 14).

At the invitation of the Minister in Charge of Electrical Undertakings, an official inspection of the Commission's Yallourn and Morwell undertakings was made by Members of both Houses of Parliament on the 19th November, 1953. A similar inspection of the Kiewa Scheme was made during the period 6th to 8th April, 1954.

After making full provision for interest and depreciation, the income, expenditure and net surplus were as follows:—

							Year ended 30/	6/54
ELECTRICITY SUPPLY	17						£	£
	I						22,117, <b>3</b> 81	
Income Expenditure			******	*****			20,105,436	
Expenditure							20,100,400	
Profit								2,011,945
BRIQUETTING								
Income							884,652	
Expenditure							824,084	
D.: a 64							-	60.568
Profit						*****		00,508
$BROWN\ COAL - YALL$	OURN	NORT	$\Gamma H$					
Income							484,339	
Expenditure							<b>3</b> 81,072	
Profit								103,258
PROVINCIAL TRAMW								
	AIN						104 550	
Income			•••••				184,756 $412,672$	
Expenditure	*****	*****			*****		412,012	
Loss								227,916
Miscellaneous II	ncome							9,860
Miscellaneous I	Expend	iture						98,221
MAKING A TOTAL								
Income							23,680,979	
Expenditure		*****					21,821,485	
Profit								1,859,494
Appropriations from the	nrofit	were.						
					-4-3			
Interest and deferment				assocı orks	ated	with	1,250,000	
Contingency an			ce Rese	erve			_	
Rate Stabilisati	on Res	serve			,		250,000	
								1,500,000
Leaving a surpl	us of							*359,494
Loaving a surpr			o Genera					

As compared with the previous year, the increases in Income and Expenditure were as follows:—

```
        Total Income
        £2,944,414 (14.2 per cent.)

        Electricity Supply
        £2,927,867 (15.3 per cent.)

        Briquetting (Decrease related to transfer from stock
        —£47,829 (5.1 per cent.)

        Brown Coal
        £62,299 (14.8 per cent.)

        Total Expenditure
        £2,992,715 (15.9 per cent.)
```

During the year Messrs. R. Liddelow (formerly the Commission's Manager), H. S. Kilfoyle, F.C.A.A. (formerly Chief Accountant of the Commission), and L. A. Schumer, B.Com., F.I.C.A. (a leading Melbourne Accountant), reviewed the Commission's depreciation practices, and its provisions for loan redemption. This expert group advised that the state of the Depreciation Reserve was satisfactory and endorsed the Commission's estimates of plant life expectancies and its method of providing for depreciation.

Capital expenditure at 30th June, 1954, was as under:-

	As at 30/6/54 £
Fixed Capital —	
Coal Production	10,906,720
Briquette Production and Distribution	40.0=0.004
Power Production	
Transmission, Transformation and Distribution Systems	10.004.450
General (for details see Appendix No. 3)	41,028,289
	173,313,439
Current Assets in excess of Current Liabilities	7,591,359
Overburden Suspense (cost of uncovering ccal yet to be won)	4,487,405
Other Suspense Expenditure (net)	4,927,770
	£190,319,973
The funds for this expenditure were obtained from -	-
Loans —	
Victorian Government Advances	40,044,041
S.E.C. Debentures and Inscribed Stock	123,583,991
Acquired Undertakings' Debentures and Inscribed Stock	458,395
	164,086,427
Depreciation and Sinking Fund Reserve	19,674,812
Other Reserves including Operating Surplus	4,363,283
Consumers' Advances for Construction	2,195,451
	£190,319,973

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, 2, 3 and 5.

Reserves at 30th Jun	e, 1954,	were:—					
					£		
Depreciation and Sinki	ng Fund	Reserve	 		20,170,363	(Increase of	£660,603)
Contingency and Obsole	scence Re	eserve	 		1,598,979	(Increase of	£598,979)
Rural Development Rese	erve		 		1,200,000	(Unchanged)	
Rate Stabilisation Rese	erve		 		500,000	(Increase of	£250,000)
General Reserve			 	******	1,064,304	(Increase of	£502,974)
				-			
					£24,533,646	(Increase of	£2,0 <b>12,5</b> 56)
				=		:	

The Contingency and Obsolescence Reserve increase represents the transfer of the accumulated surplus as at 30th June, 1953. The Rate Stabilisation Reserve was doubled by another appropriation of £250,000. The General Reserve was strengthened by the transfer of the year's surplus (£359,494) and the Sinking Fund equity of matured loans (£143,480).

The Depreciation and Sinking Fund Reserve is augmented by regular depreciation of fixed capital assets in service. Sinking Fund payments are met in full from the funds of this Reserve and the balance is invested in the business of the Commission.

The total loan liability at 30th June, 1954, was £164,086,427, the increase for the year (£24,958,502) being incurred as follows:—

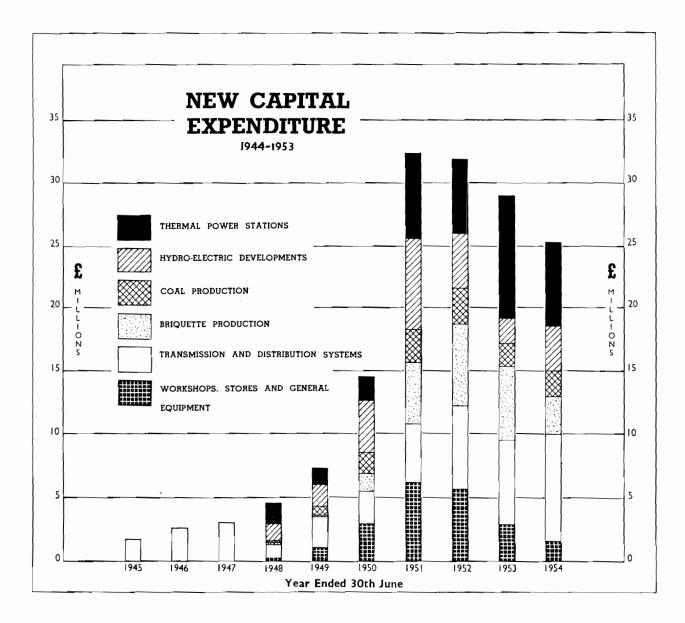
	Less Redemptions				
	New Indebtedness	Sinking Fund Contributions	Maturity Repayments	Net Increase	
	£	£	£	£	
State of Victoria	6,018,127	246,834		5,771,293	
State Electricity Commission Loans	23,521,369	538,180	4,251,000	18,732,189	
Municipalities (acquired undertakings)	477,993	22,973		455,020	
	£30,017,489	£807,987	£4,251,000	£24,958,502	

The following is a summary in round figures of the new loan moneys (apart from advances by the Victorian Government) received in each of the last six years — conversions and short-term loans redeemed within the year are excluded:—

Year ended 30th June	Public Loans	Private Loans	Total
	£	£	£
1949	1,300,000	5,700,000	7,000,000
1950	3,900,000	13,700,000	17,600,000
1951	9,100,000	22,500,000	31,600,000
1952	18,500,000	4,700,000	23,200,000
1953	9,100,000	8,100,000	17,200,000
1954	11,900,000	11,600,000	23,500,000

Total Capital Expenditure at 30th June, 1954, was £173,313,439, an increase of £22,927,408 for the year after deduction for retirements and the writing off of non-productive expenditure. The principal increases were in the following accounts:—

Coal Production —									£			
Yallourn								*****	2,247,117			
Briquette Production —												
Morwell						*****			2,744,805			
Power Production												
Thermal Stations — Ballara	t "B"	*****							609,483			
" — Geelong	"B"								774,661			
" " — Mildura	(acqu	isition)							321,075			
" " — Redcliff						*****	*****	*****	405,227			
" " Yallour	n	*****							4,379,135			
Hydro Stations — Kiewa									2,242,689			
" " — Eildon									1,270,169			
Transmission System							*		2,852,000			
Terminal Transformation System									1,379,322			
Distribution System												
Metropolitan									954,893			
Provincial and Country Bra	anches					******			3,243,665			



This project, in the form authorised by Parliament, provided for a new open cut and four briquette factories having an ultimate production of 2,600,000 tons of briquettes per annum, and it also would provide — as a by-product of the briquette manufacturing process — surplus power totalling 72,000 kW for the State generating system. This second open cut in the Latrobe Valley will permit the supply of coal to the Yallourn undertaking and vice versa — a most desirable safeguard in view of the substantial degree to which the State's electricity supply depends on Yallourn.

Work at Morwell on this vital project came to a standstill consequent on reduction in loan funds in 1951. With the prospect of sufficient finance being available, the Government, in May, 1954, approved a modified plan recommended by the Commission, under which work at Morwell could be recommenced — although at a slower tempo than previously. This plan now gives priority for power production over briquette manufacture in the development of the project, and provides for the State generating plants based on brown coal to be augmented by 133,000 kW and later increasing to 171,000 kW. This re-arrangement of the project rests on the Commission's natural anxiety to put to use the boiler and generating plant already delivered and paid for — such forming a substantial part of the £27 million already invested in the project. However, to exploit this plant ahead of the specialised briquetting plant, it will be necessary to purchase immediately a 20,000 kW low pressure turbo-generator and associated condensing plant. This will permit new commitments for additional generating plant at Yallourn following the "D" extension to be deferred until early 1956.

The first three stages as noted hereunder provide 55,000 kW more than the original plan, for an additional outlay of £1.94 million. To obtain this same output at a new station at, say, Yallourn, would cost £9 million.

The intention is to erect each of the four briquette factories as capital funds permit; these should be completed about 12 months after each of the related power plants.

The project now will proceed according to the following programme:—

Stage 1 (to be completed by January, 1958):

Two boilers, one 30,000 kW high pressure turbo-generator and one 20,000 kW low pressure turbo-generator. (No briquette output at this stage.) Power output to system — 42,000 kW.

Stage 2 (to be completed by January, 1959):

Two additional boilers, one additional 30,000 kW high pressure turbo-generator, complete erection of first briquette factory. Power output to system — 66,000 kW; briquette production — 714,000 tons per annum.

Stage 3 (to be completed by January, 1950):

Two further boilers, one further  $30,000~\rm kW$  high pressure turbo-generator, complete erection of second briquette factory. Power output to system —  $91,000~\rm kW$ ; briquette production —  $1,564,000~\rm tons$  per annum.

Stage 4 (to be completed by January, 1961):

Two further boilers, one further 30,000 kW high pressure turbo-generator and one additional 20,030 kW low pressure turbo-generator. Power output to system—133,030 kW; briquette production—1,564,000 tons per annum.

Development subsequent to Stage 3 is to be reviewed and made the subject of further report to the Government in about three years' time.

Since the close of the financial year, field work at Morwell has recommenced.

Reference has been made in earlier reports to the establishment by the Commonwealth Government in 1949 of the Snowy Mountains Hydro-Electric Authority. This body is to develop the the use of streams in the Australian Alps around the Mt. Kosciusko area for irrigation and power purposes. The Commonwealth Government has set up an "Interim Snowy Mountains Advisory Council" representative of the Commonwealth and the States of New South Wales and Victoria to study and advise on the development of the proposed works. (These two States are to share the output of electricity after the limited requirements of the Commonwealth have been met and will share the irrigation waters.)

A broad examination of the scheme is proceeding under the general direction of the Council. Meantime the Commonwealth Government is negotiating with the two State Governments regarding the terms and conditions upon which the States' water and electricity authorities are to participate in the output of water and power.

There were 33,033 new consumers, compared with 25,947 last year. Because of the shortage of capital funds, the Commission has continued to seek the assistance of prospective consumers under its "fifty-fifty" self-help plan, whereby extensions were undertaken on the basis of the prospective consumers agreeing to advance 50 per cent. of the capital cost of construction. Under this arrangement, quarterly accounts for electricity consumed are offset against each advance and any balance remaining after five years is refunded; interest is credited on advances.

Also, approval has been obtained to raise up to a total of £1,709,000 by community loans at current rates of interest from subscribers interested in any particular extension.

		Year	 			New Consumers Conn	·	
		ended Oth sune		Tetal		Metropolitan area	Oatside Metropolitan arca	Farms Connected
1951			 	24,577	-	8,156 (33 per cent.)	16,521 (67 per cent)	 1,831
1952			 	27,332		8.518 (31 per cent.)	18,814 (69 per cent.)	2,381
1953			 	25,947		7.979 (31 per cent.)	17,968 (69 per cent.)	2,373
1954		0.00		*33.033	1	7,713 (23 per cent.)	*25,320 (77 per cent.)	*4,756
Total i	for 4 y	rears	 	110,989	- !	32,366 (29 per cent.)	78,623 (71 per cent.)	11,341

<sup>\*</sup> Including 8,344 consumers (2.219 farms) from undertakings acquired during the year.

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

	F.	inancial	Year	 		Total Consumers served by Commission	Extra Metropolitan Consumers	Farms Supplied
1943-44						300,465	102,364	7,467
1948-49					•	372,135	153,741	14,419
1953-54						501,994	244,484	27,082

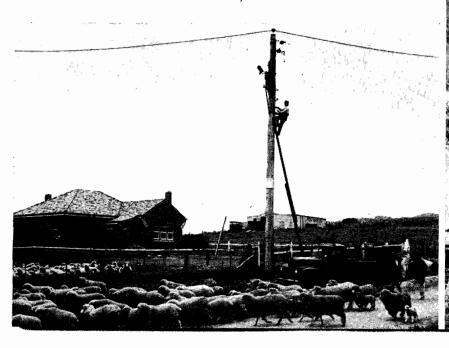
During 1953/54 more than three times as many consumers were added to the Commission's system in country areas as in the metropolis; the extent of work undertaken in country districts is emphasised by the following comparison:—

		Outside Metropolitan Area	Metropolitan Area
Poles erected		 15,239	2.131
High voltage lines erected		894.5 miles	180 miles
Low voltage lines erected		642.7	64.4 ,,
Substations erected		 1,284	69

### EXTENSION OF ELECTRICITY SUPPLY TO RURAL AREAS.

At right: Rural type substation (Midland Branch). One substation and 14 poles were erected every 100 minutes of the year (working time).

Below: Extension by single wire earth return system under construction (cost of extension is reduced by this system which is used where conditions suitable).





In 1951 the Commission's Report on the Final Phase of the Rural Electrification of Victoria was presented to Parliament. The report provided for 178,000 consumers to be connected in areas outside the metropolis during the succeeding ten years leaving at the end of that period some 15,000 homes in the most isolated parts of the State without supply: every effort will be made to include as many of these as possible in the plan. During the three years which have elapsed, considerable progress has been made with rural electrical development: work is now ahead of schedule. Reference is made on page 11 to the number of consumers and farms already connected as part of this plan.

At 30th June, 1954, more than 581,000 dwellings were supplied with electricity in the State of Victoria leaving 71,000 as yet without supply. Of these 13,600 are within the area served by the Metropolitan Branch and 57,700 are outside the metropolis, including the 15,000 houses in the most isolated parts. In addition to those dwellings at present without supply, it is estimated that the Commission will be connecting dwellings yet to be erected at the rate of 10,000 per annum.

The first major post-war project approved for extension of the State supply system was the Murray Valley Scheme which provided for the construction of regional power stations and ultimately transmitted supply throughout the Murray Valley Region, including the far north-west.

The Governor in Council, since the close of the year, has approved a second major project—the extension of electricity supply throughout the Wimmera Region; this represents one of the few remaining large schemes necessary to complete the Commission's task of a State-wide electricity supply system in accordance with the 1951 report.

Under this Scheme the Commission will immediately negotiate with the City of Horsham for the acquisition of the local electricity supply undertaking: it will operate the power station until transmitted supply is available.

During the next six years the following main towns would be linked to Horsham:—

Murtoa (to which Rupanyup and Minyip are linked at present), Natimuk, Dimboola, Nhill, Warracknabeal, Kaniva, Brim, Beulah, Hopetoun, Jeparit, Rainbow and Goroke.

As the work proceeds, the Commission will investigate in detail the practicability of extending supply to small centres and rural communities. Transmitted supply would be available initially during 1955/56.

The capital cost of the Wimmera Scheme is £1,571,940 spread over the six-year period; the proposals are sufficiently flexible to allow for a variation in the tempo of expenditure from year to year in the light of the capital funds available. The plan is based on the expectation that all the new money required will be raised by area loans within the Wimmera Region.

From date of acquisition the tariffs will be more favourable than those now charged.

With the continued satisfactory financial result of operations, and prospects of greater stability in cost levels, the Commission reviewed its standard tariffs in accordance with its policy of passing on to consumers the maximum benefit possible.

A reduction has been made of 2d. per room per month in the service charge for all consumers taking supply under the residential two-part tariff "G", with effect on bills rendered on and after 1st July, 1954. This will result in an overall bene it of £300,000 per annum which will be shared by 550,000 residential consumers (80 per cent. of the total consumers of electricity in Victoria).

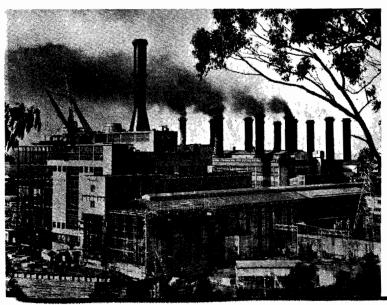
Also Municipal Councils have been assisted in their efforts to improve street lighting facilities by a reduction of approximately 10 per cent. in public lighting tariffs with effect from the 1st October, 1954. As a result, municipalities served by the Commission throughout Victoria will benefit to the extent of £33,500 per annum.

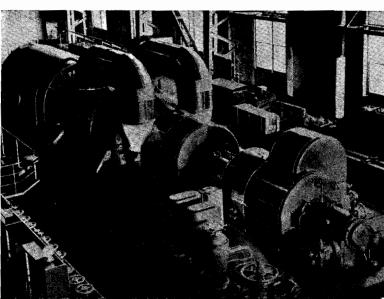
The Commission's ability to make further tariff decreases will be influenced by the outcome of claims for increased margins as well as the necessity to hold in the business moneys to aid the finance of capital works. This latter aspect is today of great significance to most public and private large scale enterprises.

### EXTENSIONS TO YALLOURN POWER STATION.

New "C" Station nearing completion.

First of the two 50,000 kW turbo-generators now in operation; second set to be in service by winter, 1955.





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

Plant									of Operation (as at 30/6/54)
Yallourn Power Station —									
Four 50,000 kW turbo-ge	nerator s	ets							
One set				*****			****		In operation
One set									1955
Two sets							*****		1957/58
One 6,000 kW turbo-gene	erator								1956
Kiewa Hydro-Electric Project -	_								
Four 15,400 kW turbo-ge	enerators -	— No.	4 Pow	er Stat	ion	,			1955
Four 16,000 kW ,, (A fifth 16,000 kW	,,,	— No. is stat						•••••	1957/58
Morwell Power and Fuel Project	ct —								
To produce - First Stage	-42,00	00 kW		*****					1958
Second Star	ge — 24,00	00 kW							1959
Third Stage	e — 25,00	00 kW					,		1960
Fourth Sta	ge — 42,00	00 kW							1961
(Two 20.000 kW lov	v pressure	turbo	-genera	tors yet	t to be	order	ed.)		
Eildon Hydro-Electric Project -	-								
Two 60,000 kW turbo-gen	erators					,	.,		1956
In addition —									

- 1. A 40,000 kW turbo-generator set is on order for the Newport Power Station, but its location, capacity and date of installation are under review.
- 2. Two 25,000 kW turbo-generators are to be installed at the Hume Weir by the Electricity Commission of New South Wales by 1957; the output is to be equally shared by New South Wales and Victoria.

### (Approved Development — Four 50,000 kW Sets)

### Yallourn "C"

This extension, comprising two 50,000 kW turbo-generators, a 6,000 kW back pressure set and six 200,000 lb./hr. boilers will soon be complete. The first turbo-generator was placed in service on the 22nd May, 1954, with two of the boilers, and the second turbo-generator and a further two boilers are to be ready by the winter of 1955; erection of the remaining two boilers is in progress. Yallourn "D"

This extension is generally similar to the "C" plant; the two 50,000 kW turbo-generators and associated boiler plant were ordered in 1950.

Boiler-house foundations are nearing completion and steelwork erection is about to commence. Foundations for the turbine house are in progress. The inlet conduit and penstock pits for the circulating water system have been completed.

### General

New coal handling plant for the "C" and "D" extensions will improve the fuel delivery to the present Station. The first section of this plant, comprising a 5,000 ton ditch bunker, a 3,000 ton slot bunker and connecting conveyors, crushing plant, etc., has been placed in service since the close of the year. Steelwork and dredgers for a second ditch bunker have been delivered.

Altogether over 1400 men are employed by the Commission and its contractors on these extensions.



Foundations for new "D" Station to house two 50,000 kW turbogenerator sets — planned for operation 1957/58.



### Water Storages on the High Plains

Work on the large dams at Rocky Valley and Pretty Valley, on which the scheme is fundamentally based, has been in abeyance; however, a re-commencement has been made on the Rocky Valley Dam since the close of the year.

### No. 1 (Upper) Development — Approved Capacity 80,000 kW.

The French firm of Societe Etudes et Entreprises, under contract, has excavated 13,035 feet (70%) of the headrace tunnel. The diversion tunnel at Rocky Valley has been lined and the Rocky Valley River diverted.

No. 1 Power Station has been re-located as a surface station and will comprise five 16,000 kW turbo-generators (instead of four planned for the previous location); provision will be made for the possible installation of a sixth machine. Site works for the power station building and pipeline have commenced.

### No. 2 Development

A preliminary study of the various alternatives for this development has been completed — no work has been carried out on this section.

### No. 3 Development (Bogong) — Installed Capacity 26.000 kW.

This power station has operated since 1944. Additional water is now supplied from the Bogong Creek raceline which was completed during the year.

### No. 4 Development — Planned Capacity 61,600 kW.

Construction of the underground power station is almost completed and the erection of the four 15,400 kW turbo-generators is proceeding. The headrace tunnel was completed and the concrete lining of the tailrace tunnel was 90% complete.

Clover Dam has been completed since the close of the year, and the outlet regulating pondage is well advanced.

The first turbo-generator is expected to be in operation by January, 1955, and the remaining sets at intervals during 1955.

Work has commenced on a raceline and tunnel to divert water from the West Kiewa River to No. 4 Power Station. The discharge tunnel into No. 4 headrace tunnel was completed and the driving of the main tunnel for the diversion commenced.

• • •

Altogether 1,329 men were employed by the Commission and its contractors on the Kiewa Project at the 30th June, 1954.

### Approved Capacity -- 91,000 kW and 2,600,000 tons briquettes per annum (four factories)

Construction work remained at a standstill during the year; the special measures for the care of steelwork, plant and equipment for the first two factories already on site, were maintained; 125 men were employed on the project at the 30th June, 1954.

With the prospect of a restart on this project early in the financial year 1954/55, referred to earlier in this report, preparatory work for steel and plant erection is in hand. (Foundations for the first two factories and power plant are completed.) The erection of a bucket wheel dredger has been completed, also the erection of a bucket chain deep coal dredger, a bucket chain overburden dredger and an overburden spreader is substantially completed.

To date approximately 3,000,000 cubic yards of overburden have been removed — sufficient to enable future excavation by dredger.

### KIEWA HYDRO-ELECTRIC PROJECT.

Recently completed Clover Dam (pondage for No. 4 Development). View upstream from Clover Dam showing pondage and No. 3 Power Station (background).



(Geelong 30,000 kW; Ballarat 20,000 kW; Redcliffs 10,000 kW; Shepparton 10,539 kW; and Warrnambool 4,980 kW)

The new power plants at Geelong (three 10,000 kW sets), Ballarat (four 5,000 kW sets) and Redcliffs (two 5,000 kW sets) all comprise "packaged" steam-electric sets ordered from U.S.A. in 1951. Shepparton station comprises three 1,850 kW and six 830 kW diesel generating sets and Warrnambool six 830 kW diesel generating sets.

All these stations are complete and were brought fully into operation during the year.

Reference has been made in previous reports to the agreement with the State Rivers and Water Supply Commission concerning the installation of 120,000 kW of additional generating plant at the enlarged Eildon Reservoir. Under the agreement 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, at that portion of the year when electricity demand is highest, storages are filling and there is no regular output of electricity).

Two 60,000 kW turbo-generators now on order are planned to be in operation in 1956. They will be installed in a new building already well advanced. The two generators removed in August, 1953, from the old Sugarloaf power station at the site of the old Eildon Dam have been installed after reconditioning and will contribute 15,000 kW at times of peak demand during non-irrigation months.

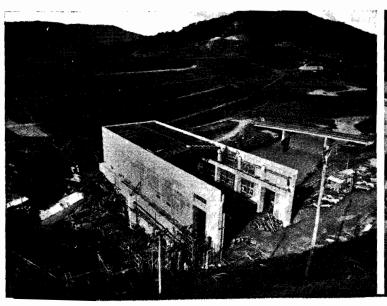
The first circuit of the new Yallourn-Melbourne 220 kV transmission line (67 miles long) is now complete and is operating temporarily at 132 kV. The Kiewa-Melbourne 220 kV transmission line (153 miles long) will be in operation early in 1955.

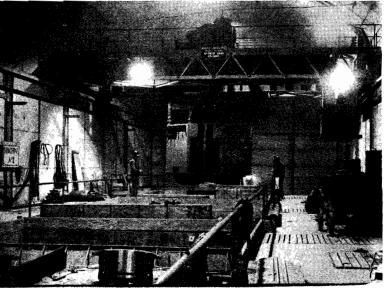
Feeders to link the new West Melbourne Terminal Station and the augmented Spencer Street, Melbourne, Power Station are complete. At Brunswick Terminal Station the second 40,000 kVA synchronous condenser and two 37,500 kVA transformers and associated switchgear were installed. The redesigned switchyard at Thomastown Terminal Station was nearly completed and two 10,000 kVA transformers installed. New main substations were established at Braybrook, Dandenong, Mordialloc and East Burwood.

### HYDRO-ELECTRIC POWER STATIONS UNDER CONSTRUCTION.

Eildon (en!arged dam under construction by State Rivers and Water Supply Commission in background). Power Station when completed in 1956 will comprise two 60,000 kW durbo-generators and two 7,500 sets.

Kiewa No. 4 Power Station (450 feet underground) will house four 15,400 kW turbo-generators — to be completed in 1955.





The State generating system comprises interconnected power stations at Yallourn, Melbourne (Newport, Richmond and Spencer Street, City), Kiewa, Eildon-Rubicon, Geelong, Ballarat, Shepparton and Warrnambool. The Commission also operates regional stations at Mildura-Redcliffs and Hamilton.

Terminal Stations are located at Melbourne (Richmond, Yarraville, Brunswick, Thomastown, East Malvern, Sunshine, Clifton Hill and West Melbourne) and Geelong. The transmission system includes the lines from the interconnected power stations to the terminal stations and from the terminal stations to the main metropolitan substations, 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 30th June, 1954:-

Thermal Station	s —								kW
Yallourn (in Factory)	cludin	g a	llow	ance	for	B	rique	ette	233,000
Melbourne									
Newport	*****								311,000
Spencer S	treet								<b>73,65</b> 0
Richmond									<b>53</b> ,000
Geelong "A"									10,500
Geelong "B"									30,000
Ballarat "A"									<b>5,9</b> 00
Ballarat "B"									20,000
Shepparton									10,530
Warrnambool									4,980
Hydro Stations -									
Eildon-Rubice	on			*****					12,915
Kiewa	····								26,000
*Total									791,475

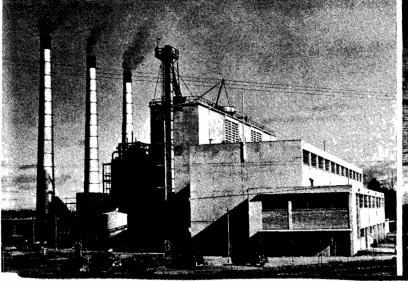
Thermal State	ions -	_					kW
Mildura			 	 	 		7,000 \ Inter-
Redcliffs			 	 	 		10,000 connected
Hamilton		*****	 	 	 	•	3,020
*Total		<b>.</b>	 	 •••••	 		20,020

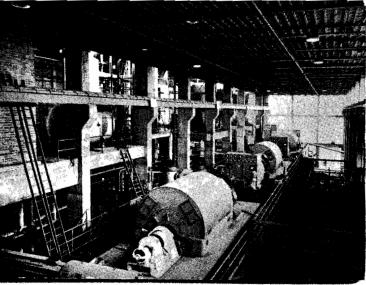
\*Note: At Vallourn, Newport, Spencer Street, Richmond, Ballarat "A" and Mildura stations, generators could not be used to full capacity because of limitations on boiler capacity.

Power Station buildings.

NEW GEELONG POWER STATION.

Interior showing three 10,000 kW turbo-generators now in service.





Danier Stations	Maximum Demand	kWh Generated (millions)
Power Stations	1953/54	1953/54
Thermal Stations —		
Yallourn (including Briquette Factory)	243,000	1394.0
Melbourne —		
Newport	304,400	1322.7
Spencer Street	73,000	212.4
Richmond	51,900	202.0
Geelong "A" and "B"	47,400	103.6
Ballarat "A" and "B"	29,800	53.4
Shepparton	10,250	24.0
Warrnambool	4,980	6.2
Hamilton*	1,800	7.7
Mildura*	5,300	11.0
Redcliffs*	5,700	10.5
Hydro Stations —	I	
Eildon-Rubicon	26,950	92.6
Kiewa	28,000	62.3
	Maximum Co-incident Demand‡	Total kWh
	701,650	3502.4

\* Not connected to State System.

‡ Interconnected system only.

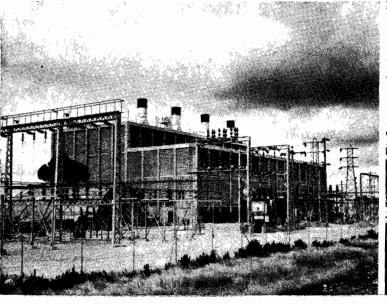
The decrease in the output from the Eildon-Rubicon hydro stations was due to the closing down of the Sugarloaf Power Station in August, 1953, to enable the plant to be transferred to the new Eildon Station.

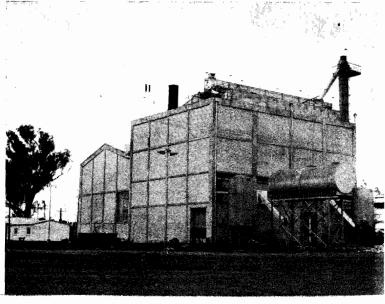
Details of loading, output, load factors and fuels used in respect of Power Stations throughout the State are contained in Appendices Nos. 6-8.

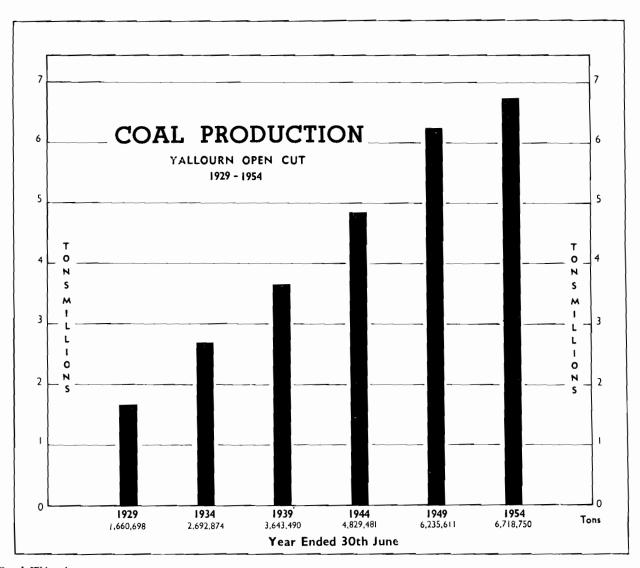
### NEW REGIONAL POWER STATIONS.

Ballarat — four 5,000 kW packaged steam-electric sets now in service.

Redcliffs (near Mildura) — two 5,000 kW packaged steamelectric sets now in service.







Coal Winning

The year's operations bought the total coal excavated since the commencement of operations to 114.86 million tons. Of the coal won during the year, 4,379,280 tons were delivered to the Yallourn Power Station and 2,339,470 tons to the Briquette Factory. On the 9th June, 1954, 24,583 tons of coal were produced — the highest daily output yet achieved.

### $Overburden\ Removal$

2,793,350 cubic yards of overburden were removed, compared with 2,693,550 cubic yards in the previous year, bringing the total removed to 30th June, 1954, to 42.28 million cubic yards.

The area of the Open Cut has increased from 772 to 816 acres at grass level and from 674 to 722 acres at the surface of the coal.

### Plant

To provide fuel for planned extensions to the Yallourn Power Station, the annual output of coal will have to be increased progressively to some 10 million tons per annum—additional dredgers are required to cope with this increase and for the ultimate replacement of two of the older dredgers. Two bucket wheel dredgers (capacity of each 2,340 cubic yards per hour) are being erected; one was ordered in Germany in 1951 and will be used for coal winning, and the second machine (originally ordered for Morwell) will be used at Yallourn for overburden removal.

1,262,094 tons of coal were won during the year for power generation (Newport Power Station) and industry, compared with 1,181,652 tons last year; to date, the Commission has excavated 7,314,744 tons from this cut.

Tons

1953-54 ..... 587,252

Production was 42,279 tons higher than last year (in that year, however, an unfortunate explosion and fire caused a loss in output of 16,700 tons).

By-product electricity amounted to 94.7 million kWh, of which 61.5 million kWh were delivered to the State system, the remainder being used at the factory. 1,880 tons of pulverised fuel were produced for use in Victorian Railways locomotives this year, compared with 1,655 tons last year.

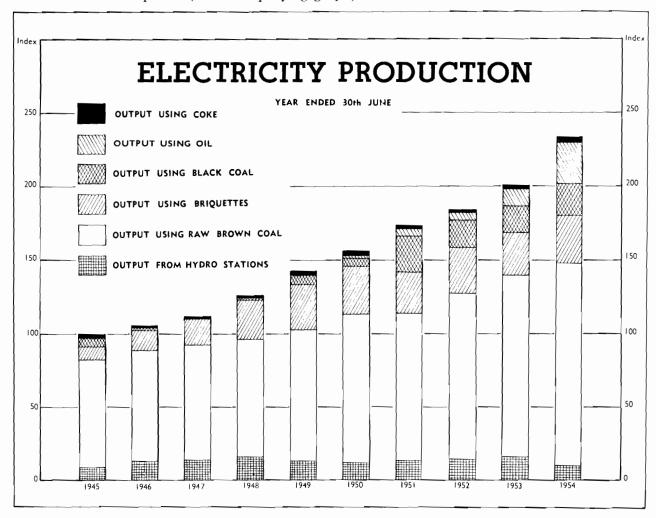
The replacement of drier stacks in the "A" Factory was continued. Work has commenced on the re-arrangement of the dried coal conveyors in Factory "B" and preliminary design has been completed for alterations to plant and buildings in Factories "A" and "B": both of these provisions will improve operating conditions. A new four-stamp press is being transferred from Morwell for installation at Yallourn.

Two taller chimneys with the latest equipment for the extraction of dust from flue gases are being installed at the boiler house ("B" and "C" Factories).

Sales								2	43,756	tons
(excluding	Com	nissio	n Po	wer	Static	ons —	368,	638	tons)	
Revenue								£8	84,652	
Expenditure								$\mathfrak{L}8$	24,084	
Profit								£	60.568	

The profit on operations (£60,568) compared with a profit in the previous year of £13,241.

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

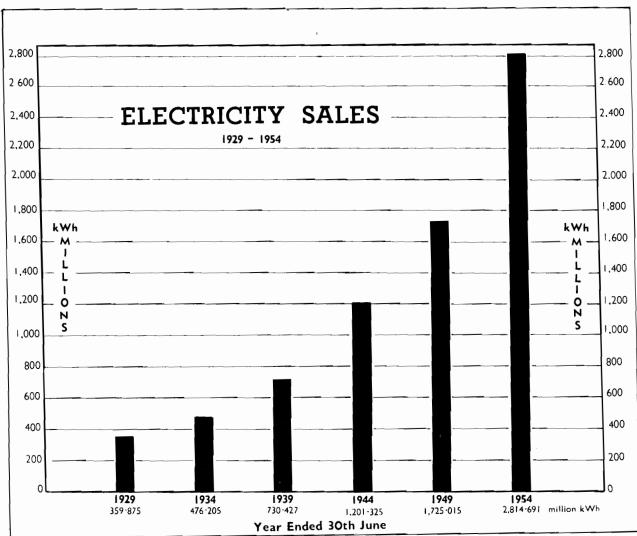


As previously reported, for many years the only practicable extension of the State generating system has been at stations designed originally for peak load operation. As these plants now operate at higher load factors, they require relatively greater quantities of fuel. During the year 926,745 tons of brown coal (principally from Yallourn North) and 199,736 tons of Callide (Queensland) coal were used at peak-load stations. Fuel supplies available were adequate for power station requirements throughout the period under review.

To 30th June, 1954, 451,000 tons of Callide coal had been delivered under the Government's contract for the purchase of 600,000 tons.

Electricity sold to all consumers — retail and bulk — totalled 2,815 million kilowatt-hours, an increase of 16 per cent. for the year compared with 8 per cent. during 1952/53.

The large increment this year — almost twice the highest previously recorded — is partly due to the 7 per cent. increase in the number of consumers. Also, there has been a substantial increase in consumption by existing consumers reflecting a greater application of electricity, particularly for power and heating in industry and commerce and for general purposes in the home and on the farm.

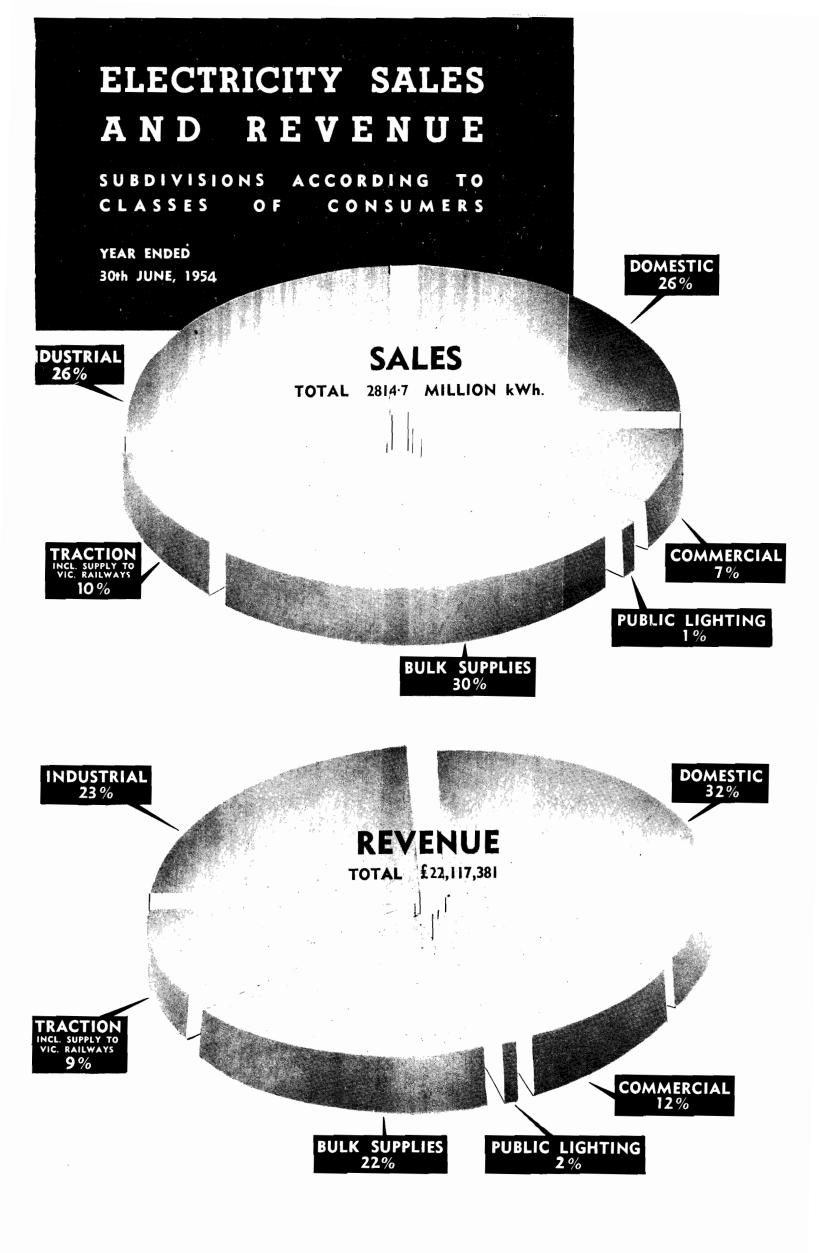


Sales by the Commission to domestic consumers increased by 17.8 per cent.; there were 27,290 new consumers in this class. The average consumption per domestic consumer for each of the last five years is as follows:—

	Average Consumption per Domestic Consumer kWh	Increase or Decrease kWh
1949-50	1,556	+186
1950-51	1,566	+ 10
1951-52	1,496	<b>— 70</b>
1952-53	1,600	+104
1953-54	1,770	+170

The average cost per kilowatt-hour sold to domestic consumers for all purposes is today lower than the pre-war period whereas since 1939 the basic wage has trebled. The trend over the last 10 years is shown in Graph No. 6— "Ten Year Statistical Review"—at the front of this report.

Sales to Commercial and Industrial consumers increased by 15.1 per cent. and 19.4 per cent. respectively; the number of consumers in these classes increased by 3,359 and an additional 44,115 h.p. of motors was connected.



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 £2,292,963 (15.3 per cent.) to £17,285,673.

Sales of Electricity increased by 279,552,884 (16.5 per cent.) to 1,969,942,143 kWh.

Consumers increased by 33,033 (7.0 per cent.) to 501,994.

Farms increased by 4,756 (21.3 per cent.) to 27,082.

					Increase	this year		1
Branch	Area of Supply	No. of	Electricity sold kWa	Subs	tations	Distril Lir		No. of Farms
	(sq. miles)	Consumers	(millions)	No.	Capacity kVA	H.V. Route Miles	L.V. Route Miles	Supplied
Metropolitan	319.9	257.510	1,245.320	69	22,325	18.0	64.4	*1,150
Ballarat	376.4	19,445	51.189	56	2,220	53.5	14.7	1,125
Mildura)	576.1	22.370	51.268	265	17,915	281.2	313.3	3,097
Geelong	242.8	25,483	101.438	50	6,935	29.1	27.8	1,025
East. Metropolitan Gippsland (includ-	887.4	61,787	155.454	75	20,233	50.1	90.7	4,124
ing Yallourn)	2,362.6	38,889	120.933	<b>1</b> 86	16,615	108.0	77.1	5,826
Midland	694.0	13,214	30.804	85	2,255	83.8	23.2	1,380
cluding Kiewa)	2,058.7	38,335	150.364	$\bf 298$	16,965	151.0	54.6	5,090
South Western	1,722.0	24,961	63.172	269	14,767	137.8	41.3	4,265
Total	9,239.9	501,994	1,969.942	1,353	120,230	912.5	707.1	27,082

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

Erection of 22 kV transmission lines for the electrification of the Gippsland railway between Dandenong and Warragul was completed.

Additional 22 kV switchgear is being installed at the Shepparton Main Substation and 22 kV and 66 kV oil circuit breakers at the Terang Main Substation.

In the year under review, the following country extensions were completed or were nearing completion at the 30th June, 1954:—

Bendigo Branch — Creek View; Hunter South; Myola East; Yarraberb.

Geelong Branch — St. Leonards-Red Bluff.

Eastern Metropolitan Branch - Wonga Park (south section); Warrandyte West.

Gippsland Branch — Blackwood Forest-Glen Alvie; Almurta Village; Kernot Village; Labertouche; Pheasant Creek-Poowong North; Bunyip River-Iona (Stage 2).

Midland Branch — Metcalfe; Sutton Grange.

North-Eastern Branch — Echuca North; Undera; Barwo Soldier Settlement; Warrenbayne; Wunghnu South; Gillieston.

South-Western Branch — Mt. Eccles; Modewarre; Port Campbell; North of Byaduk; Yambuk.

The following local electricity supply undertakings were acquired following the extension of transmitted supply:—Pyramid Hill, Wedderburn, Colbinabbin (Bendigo Branch); Cowes (Gippsland Branch) and Nagambie (North-Eastern Branch). The Mildura undertaking was acquired as part of a regional scheme based on the Mildura-Redcliffs Power Stations.

### (Revenue £184,756. Loss £227,916)

During the year the Transport Regulation Board concluded its inquiry into passenger transport facilities at Geelong and has submitted its recommendations for Government consideration. The Commission trusts that as an outcome another form of street transport will be provided and thereby overcome a most unsatisfactory situation resulting from the fact that fixed rail or similar type systems have never been economically justified for street transport requirements in all three provincial cities.

Losses at Ballarat, Bendigo and Geelong were £74,369, £67,067 and £86,480 respectively. Total revenue (£184,756) increased by £160 (0.1 per cent.) due to an increase of 0.3 per cent. in the number of passengers carried.

Total expenditure (£412,672) decreased by £8,212 (2.0 per cent.), due principally to the writing out of expenditure on tramways which resulted in lower interest charges.

### Total Personnel

			30/6/54	
Staff	 	 	 5,617	
Wages	 	 	 11,730	
			17 347	

Wages employees at 30th June, 1954:-

Location	Operation	Construction
Power Generation	1,887	1,534
Main Transmission Lines, Terminal and Substations	307	639
Electricity Supply - Metropolitan Branch Distribution	319	147
Electricity Supply — Country Branch Distribution	573	664
Briquette Production and Distribution	443	88
Coal Winning — Yallourn	1,153	_
General Services, Town and Workshops, Yallourn	1,318	797
General Services, Workshops, elsewhere	1,482	98
Tramways — Ballarat, Bendigo, Geelong	281	-
	7,763	3,967
		.730

Difficulty has been experienced in obtaining sufficient skilled tradesmen, particularly those in the metal trades. In fact, at the close of the year the signs of labour shortage pointed so strongly to a return of 1949-51 conditions that the Commision found it necessary to again seek special aid from the Commonwealth migration authorities.

### Education and Training

Seven Commission trainees were engaged on full-time studies at the University or Technical Colleges and 74 were pursuing part-time courses. A further scholarship (Engineering Diploma Course) was awarded.

Within the Commission, 4 graduates and 48 cadet engineers are receiving special training; 88 men completed the course at the Training School for Linesmen; there are 549 apprentices, principally in the engineering trades. Special training courses are being held for commercial executives, commercial cadets, draftsmen, power station personnel, survey assistants, junior commercial officers and meter testers.

### Safety

Safety and accident prevention measures continued to be reviewed and additional employee safety groups have been formed.

The severity rate of accidents again declined, fatalities and permanent disabilities being lower than during the previous year.

At the close of the financial year, 61 electricity supply undertakings (38 municipal and 23 owned by companies or persons) were operating in Victoria under the provisions of this Act.

The Governor in Council approved the following Orders in Council authorising supply of electricity:—

Order No.	Area of Supply	Undertakers
281	The Gunbower Co-operative Butter Factory & Trading Co. Ltd.	Township of Gunbower (renewal)
282	Balmoral Electricity Supply Co. Pty. Ltd.	Township of Balmoral
284	P. R. Schulze	Township of Edenhope (renewal)
	<u> </u>	·

The following Orders in Council for the supply of electricity by local authorities were revoked following the transfer of the respective undertakings to State ownership:—Mildura, Wedderburn-Korong Vale, Port Campbell, Pyramid Hill, Phillip Island and Nagambie.

Extensions (totalling 780 kW) to generating plants at Casterton, Edenhope, Kaniva and Robinvale were approved.

Inspections were made of 27 electricity supply undertakings in addition to newly installed generating plants and high voltage systems; complaints of unsatisfactory services also were investigated.

### Licensing of Electrical Mechanics

Licences in force as at 30th June, 1954:—Grade "A" — 3,987; Grade "B1" — 143; Grade "B" — 1,101; Grade "C" — 1,280. Two licensing examinations (including theory and practice) were held.

Special conditional permits were issued — 783 for periods not exceeding six months and 575 for periods not exceeding twelve months.

### Registration of Electrical Contractors

At 30th June, 1954, 1,329 registrations were in force -- 71 more than the previous year.

### Electrical Approvals Board

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

The Electrical Approvals Board since its inception in 1935 has made an outstanding contribution to electrical safety in this State, and to that body can be given much of the credit for the fact that in Victoria electrical fatalities have been low compared with other States and overseas. During this period, 4,111 articles have been tested and approval given to 3,113; in addition, approximately 4,000 articles were voluntarily submitted for test.

During the year there were 16 electrical fatalities; 10 of these were caused by incorrect or careless connection of flexible cords to plugs, extension sockets, etc., use of defective extension leads, or unauthorised alterations to fixed wiring. Five (including one Commission employee) were killed through contacting overhead mains, and there was one case of suicide.

### Electrolysis Mitigation

The Electrolysis Committee invited representatives of users or potential users of cathodic protective equipment, consultants and suppliers to meet and arrange for co-operation in reducing damage to underground metallic structures caused by stray current electrolysis. All agreed to advise the Committee of any cathodic protection schemes in operation or proposed.

### DEATH OF MR. G. G. JOBBINS — CHAIRMAN, 1937-1949

It is with profound sorrow and regret that the Commission records the death on the 9th October, 1954, of Mr. G. G. Jobbins, M.I.E.E., M.I.E.Aust., who retired on the 30th June, 1949, after being Chairman of the Commission for a period of nearly 12 years.

An appreciation of his distinguished work as an engineer and administrator in matters of electricity supply over a period of more than fifty years was recorded in the Commission's Thirtieth Annual Report. By his leadership and ability, Mr. Jobbins made an outstanding contribution to the establishment of electricity supply in Victoria, and to its development into an interconnected State-wide system.

The Commission records with a deep sense of loss the death of four of its valued senior officers:

- Mr. H. F. Speakman, Chief Paymaster, died on the 6th December, 1953; Mr. Speakman joined the Commission in 1926.
- Mr. E. Woodrow, A.M.I.E.Aust., Underground Mains Engineer, died on the 31st December, 1953; Mr. Woodrow joined the Commission in 1922.
- Mr. F. I. Griffiths, B.E., A.M.I.E.Aust., died in London on the 30th January, 1954; Mr. Griffiths joined the Commission's staff in 1935 and at the time of his death was in charge of its London Office.
- Mr. J. A. Slatter, B.C.E., A.M.I.E.Aust., A.M.Am.Soc.C.E., Assistant Civil Engineer, died as the result of an accident on the 25th September, 1954; Mr. Slatter joined the Commission's service in 1950.

### Retirements

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

- Mr. H. S. Kilfoyle, F.C.A.A., Chief Accountant, retired on the 8th December, 1953, after 34 years' service with the Commission as head of its accounting organisation. He was appointed Accountant in November, 1919; this was one of the first appointments to the Commission's staff. Besides occupying the post of Chief Accountant, to which he was appointed in July, 1930, Mr. Kilfoyle also served as Chairman of the Provident Fund Advisory Committee and Chairman of the Appointments Board dealing with senior commercial positions.
- Mr. H. A. L. Binder, Chairman, Staff Boards, retired because of ill-health on the 30th April, 1954, after 33 years' service; his duties embraced personnel relationships in their widest field. Mr. Binder was appointed to the post of Industrial Officer in May, 1921, and in 1946 became Assistant Manager, Personnel Division; in January, 1951, he was appointed to the post he held upon retirement.

### Principal Appointments

- Mr. J. F. Breen, M.Aust.I.M.M., was appointed Manager, General Services, as from the 23rd November, 1953. Mr. Breen's duties are the general correlation of all Commission workshops including transport and the control of forestry services; he was previously Assistant General Superintendent, Yallourn.
- Mr. A. R. Shepley, B.C.E., B.Sc., M.I.E.Aust., was appointed Assistant General Superintendent, Yallourn, as from 23rd November, 1953. Mr. Shepley previously had been General Superintendent, Morwell.
- Mr. J. F. Rigby, A.A.S.A., was appointed Chairman, Staff Boards, as from 1st May, 1954. Mr. Rigby has served as Commercial Member of the Staff Board and previously as Staff Officer.

• • •

The Commission again has real pleasure in placing on record its appreciation of the splendid service being rendered to the community by the efficiency and loyalty of the personnel engaged throughout the many phases of its activities. The vast programme of new works and the planning, development and operation of the power and fuel projects referred to in this report indicate the magnitude of the task so willingly accepted by all.

• •

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

R. A. HUNT, Chairman.

ANDREW W. FAIRLEY, Commissioner.

W. D. CHAPMAN, Commissioner.

A. W. HENDERSON, Commissioner.

D. H. MUNRO, Secretary.

18th November, 1954.



	Page
Appendix No. 1.—General Profit and Loss Account	30
Appendix No. 2—General Balance Sheet	31
Appendix No. 3—Schedule of Fixed Capital	32
Appendix No. 4—Abstract of Capital, Revenue and Operating Accounts	
1925-1954	33
Appendix No. 5—Schedule of Debentures and Inscribed Stock	34–35

: :

Revenue £524,153 £589,270

{ 1952–53 ...

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

Electricity Supply ... Briquetting ... ... Brown Coal ... ...

The following amounts have been included in the Depreciation provision for Sinking Fund Contributions:—

STATE ELECTRICITY COMMISSION OF VICTORIA GENERAL PROFIT AND LOSS ACCOUNT — FOR YEAR ENDED 30th JUNE, 1954

EXPENDITURE— Electricity Supply— Purchased Electricity	::	: 4	:	: :	: :	£ 1,139,764 14,167,263	ų	Electricity Supply— Domestic—General	£ 6,487,545	¥
Interest Commonstance Commonstance Commonstance Commonstance Commonstance Commonstance Commonstance Commonstance Commonstation Expense Commonstation Expense Commonstation and Miscellanceus Services Accommonstance Commonstance	::::::	11111			:::::: :::::::	2,416,789 838,966 1,026,820 364,913 108,735 191,621		meral	2,705,241 4,578,069 107,397 506,881 2,016,357 337,774	
Deduct—Electricity transferred to Works	:	:	;	;	:	20,254,871		Bulk Supplies	4,831,708 6,610	
Mandacure and Distribution Mandacure and Distribution Interest Depreciation and Sinking Fund Administration and General Expense Expense Exployees Facilities and Welfare Expense Loan Flotation Expense	11111	11111	111111	111111	111111	2,383,576 101,469 39,907 60,711 34,562 3,583	20,105,436	Briquetting— Briquette Sales	999,962 167,711	22,117,381
scellaneous Servi sferred to Work	: :	: :				4,-		Deduct—Briquettes on hand at beginning of year	1,167,673	
Brown Coal— Winning and Distribution Interest in Depreciation and Sinking Fund Administration and General Expense Employees' Facilities and Welfare Expense Loan Floatsion Expense Accommodation and Miscellaneous Services	:::::::	:::::::	1111111	1111111	1111111	1,738,292 48,792 16,262 30,236 16,549 16,549	824,084	Brown Coal—		884,652
Deduct—Brown Coal transferred to Works	:	:	:	:	:	1,894,430		Brown Coal Sales	484,330	
Power and Traffic Expenses Interest Depreciation Administration and General Expenses Employees' Facilities and Welfare Expense	:::::	11111	11111	:::::	11111	362,169 383 2,012 38,859 9,250	381,072	Tramways—	184,323 433	484,330
General— Miscellaneous Expenses	: :	: :	: :	: :	: :		412,672 98,221 1,859,494	General— Miscellaneous Income	098'6	184,756
penditure associated	n Deferm	nent of	Works	: :			23,680,979 1,250,000 705,885	<b>Profit—</b> Brought down		1,859,494
Rate Stabilisation Reserve							250,000 359,494 — — 2,565,379	Accumulated surplus—beginning of year		705,885

195,215,499

495,551

9,519,593

916,988,11

173,313,439

## STATE ELECTRICITY CO MMISSION OF VICTORIA

# GENERAL BALANCE SHEET AS AT 30th JUNE, 1954 (Adjusted to the nearest £)

ASSETS	::::::::::::::::::::::::::::::::::::::	Internal Stations (Internal Combustion)  Hydro Stations (Internal Combustion)  Hydro Stations  Trem System  T		21	Current and Accrued Assets—  Cash Receivable 2.338.045 Accounts Receivable 7.962.159 Materials and Supplies (Construction and Operation) 7.962.159 Working Fund Advances 54.633 Accounts in hands of Agent-General, London 71.707 Investments 71.707 Prepayments 72.85599 Accrued Revenues 72.85736			Loan Flotation Expense		Reserve Funds————————————————————————————————————	61
	Capital Liabilities—	Debentures and Inscribed Stock lssued by Commission (See Schedule) 125,311,865 Deduct—Redeemed or Cancelled Securities 1,727,874 123,583,991	Issued by Undertakings acquired by Commission (See Schedule) 458,395	164,086,427	Current and Accrued Liabilities—           Bank Overdraft         1,936,504           Accounts Payable         1,936,504           Consumers' Deposits         41,297           Service Charges received in Advance         296,588           Unclaimed Salaries, Wages and Interest         43,772           Unclaimed Salaries, Wages and Interest         1,305,333           Interest Accrued         1,305,333           Salaries and Wages Accrued         48,40           Pay Roll Tax Accrued         43,40           Pay Roll Tax Accrued         50,877           Worker's Compensation Insurance Accrued         50,877           Miscellaneous         121,159	1	Consumers' Advances for Construction 2,195,451  Miscellaneous 104,418	• Of these totals the undermentioned amounts are deemed to have been raised overseas and to be repayable in Sterling—  overseas and to be repayable in Sterling—  30th June, 1954 £6,513,940  † These totals include the undermentioned amounts raised in London and repayable	30th June, 1954 £795,420 30th June, 1953 £805,455	Reserves	Profit and Loss—Accumulated Surplus

Contingent Assets and Liabilities in respect of securities lodged with the Commission and the Agent-General for Victoria in London as bona fides under Commission contracts were as follows:— 30th June. 1953 30th June. 1954

	1					
		5,611	:	:	German Deutschmarks	EDWIN TUCK, Chief Accountant
W. J. PRICE, Commercial Manager		4,996,676	:	:	American Dollars	
		2,222,695	:	:	Pounds (Sterling)	
	2,325,305	2,414,296	:	:	Pounds (Australian)	
	sorn June, 1955 sorn June, 1954	:n June, 1753	Š			

AUDITOR-GENTRICATE
The Accounts of the State Electricity Commission of Victoria have been audited for the year ended 30th June, 1954. In my opinion the above Balance Sheet presents a correct view of the affairs of the undertaking at the 30th June, 1954, and the Profit and Loss Account properly summarizes the operations of the Commission for the year.

E. A. PEVERILL, Auditor-General 15th November, 1954

STATE ELECTRICITY COMMISSION OF VICTORIA
SCHEDULE OF FIXED CAPITAL EXPENDITURE AS AT 30th JUNE, 1954
(Adjusted to nearest E)

				(Adjuste	Adjusted to nearest to	12						
	YAL	YALLOURN	MORW	WELL	ELECTRICITY SUPPLY DEPARTMENT	Y SUPPLY MENT	KIEWA	٧×	OTHER AREAS GENERAL	REAS &	TOTAL	AL AL
	1953/54 New Expenditure	As at 30/6/54	1953/54 New Expenditure	As at 30/6/54	1953/54 New Expenditure	As at 30/6/54	1953/54 New Expenditure	As at 30/6/54	1953/54 New Expenditure	As at 30/6/54	1953/54 New Expenditure	As at 30/6/54
Coal Production	£ 1,736,382	£ 8,267,478	£ 362,595	£ 2,639,242	(4)	   ω	μ μ μ	ω <sub>2</sub>	. <b>42</b>	မှ	£ 2,098,977	£ 10,906,720
Briquette Production	. 143,752	2,599,990	2,758,037	16,527,437							2,901,789	19,127,427
Briquette Storage and Distribution	691	53,551								172,053	691	225,604
Steam Power Stations  Ballarat "B" Geelong "A" Geelong "B" Mildura Newport Redcliffs									605,946 14 772,633 333,257 254,580 368,573	2,809,777 293,458 3,548,249 321,075 9,973,752 1,351,367		
Yallourn	. 4,072,179	17,328,873							3,005	9,302	6,562,456	39,009,946
Internal Combustion Power Stations									729 34,141 115,275	162,019 1,020,097 587,173	150,145	1,769,289
Hydro Power Stations Eildon-Rubicon Kiewa							37 1 161 6	12 274 947	1,422,585	2,084,738	3 543,750	14.311.685
Transmission System	. 572,619	1,690,095					125,115	863,871	2,159,153	8,708,350	2,856,887	11,262,316
Terminal Transformation System Distribution System									1,165,385	9,022,657	1,165,385	9,022,657
Metropolitan Branch Provincial & Country Branches Yallourn	928	79,184			970,933 3,158,520	8,880,737 17,970,039					4,130,381	26,929,960
Tramways					26	7,854					28	7,854
General Offices, Stores, Workshops, etc	374,264	2.829.601	5,289	367,303	155,668	1,785,851	14,044	1,586,129	169,208	2,530,290	718.473	9,099,174
Plant and Equipment			13,883	725,844	195,050	670,468	2,114	1,368,214	418,270	6,251,515	680,332	10,840,560
Accommodation — townships, Hostels, etc. Miscellaneous Services (Roads, Railways, Sewerage, Electricity, Telephones, Fire Services, etc.)	136,515	5,843,896 2,037,763	1,240	1,086,749 2,569,383	23,095	365,154	4/4	3,429,362	33,050	550,434 1,228,488	200,255	9,630,150
	7,253,314	42,554,950	3,169,841	23,915,958	4,503,322	29,680,103	2,307,873	23,443,995	8,219,707	53,998,887	25,454,057	173,593,893
Deduct proportion of cost of extensions payable by consumers					41,063	257,323		: : :		23,131	41,063	280,454
	7,253,314	42,554,950	3,169,841	23,915,958	4,462,259	29,422,780	2,307,873	23,443,995	8,219,707	53,975,756	25,412,994	173,313,439

STATE ELECTRICITY COMMISSION OF VICTORIA

ACCOUNTS
OPERATING
AND
REVENUE
CAPITAL,
9
ABSTRACT

				Capital				Revenue	anu.			Operating		+ Surplus.
Year end	ear ended 30th June	Capital Expenditure	ital Jiture	Loan Liability	Reserves	Electricity Supply	Briquetting	Brown Coal	Tramways	Miscellaneous	Total	including Writings Off, etc.	. 1	Deficit.
<b>925</b> 926	::	7,759	£ 7,759,825 9,032,464	8,293,765 10,120,794	£ <b>43,936</b> 67,616	£ 617,286 713,252	£ 40,468   122,379	£ 41,602 19,476	<b>4</b> 2 ; ;	<b>4</b> 3 :: :	£ 699,356 855,107	£ 963,638 1,125,077	11	£ 264,282 269,970
924 928 929	: : :	12,742 12,763 14,530	10,742,104 12,762,939 14,530,684	11,849,698 13,567,546 15,126,107	<b>262,942</b> 493,935 833,618	<b>975,362</b> 1,262,787 1,427,751	179,184 192,256 226,186	16,124 10,698 7,858	:::	: : :	1,170,670 1,465,741 1,661,795	1,367,324 1,463,868 1,657,181	1++	196,654 1,873 4,614
<b>930</b> 931 932	: : :	16,397,608 18,553,592 19,337,273	<b>7,668</b> 3,592 7,273	<b>16,778,413</b> 19,286,428 19,735,177	1,151,139 1,593,462 2,135,205	1, <b>624,255</b> 2,234,756 2,456,696	<b>264,459</b> 276,930 357,056	9,153 1,116	30,971	 1,120 717	1,897,867 2,544,893 2,849,919	1,892,601 2,562,846 2,846,888	+1+	<b>5,266</b> 17,953 3,031
<b>933</b> 934 935	:::	19,667,259 19,748,318 20,305,078	<b>7,259</b> 8,318 5,078	19,668,146 19,109,659 19,527,309	<b>2,823,912</b> 3,332,096 3,757,812	<b>2,577,547</b> 2,717,992 2,995,707	313,435 309,936 297,858	:::	<b>34,180</b> 33,510 77,121	74 74 10,098	<b>2,925,259</b> 3,061,512 3,380,784	<b>2,921,830</b> 3,028,393 3,374,306	+++	<b>3,429</b> 33,119 6,478
<b>936</b> 937 938	: : :	20,866,242 21,638,314 22,698,893	6,242 8,314 8,893	18,606,748 18,682,415 19,242,265	<b>4,380,047</b> 5,008,027 5,672,343	3,164,703 3,339,560 3,539,974	348,650 337,227 394,634	: : :	73,207 76,142 75,567	8,130 7,500 1,008	<b>3,599,740</b> 3,760,429 4,011,183	3,572,012 3,721,528 3,957,354	+++	<b>27,728</b> 38,901 53,829
939 940 941	: : :	24,268,880 25,369,679 26,116,795	8,880 9,679 6,795	19,422,927 20,524,010 20,678,339	<b>6,449,707</b> 7,300,198 8,218,078	3,685,107 3,894,893 4,241,264	<b>377,022</b> 400,125 379,847	:::	78,664 78,211 89,571	1,099 3,700 13,374	<b>4,141,892</b> 4,376,929 4,724,056	<b>4,020,992</b> 4,250,416 4,563,376	+++	120,900 126,513 160,680
<b>2</b> 8 8 <b>2 2 2 2 2 3 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3</b>	:::	26,955,737 28,345,527 29,695,740	5,737 5,527 5,740	20,523,265 20,348,116 20,164,482	9,256,460 10,460,227 11,547,016	<b>4,657,450</b> 4,935,602 5,101,631	330,756 341,631 316,847	12,594 20,542 21,263	109,955 135,900 143,086	<b>42,894</b> 56,413 45,953	<b>5,153,649</b> 5,490,088 5,628,780	<b>5,069,227</b> 5,348,695 5,503,908	+++	<b>84,422</b> 141,393 124,872
945	: :-	31,297,130	7,130	20,997,826	12,902,334	5,259,881	329,428	24,443	146,605	38,804	191,661,5	5,739,953	+	59,208
946	:	33,622,089	2,083	20,927,313	14,448,315	5,605,333	341,761	25,702	146,503	40,886	6,160,185	6,096,722	+	63,463
947	:	36,460,148	0,148	23,220,783	15,686,004	5,835,194	321,711	191'19	142,281	32,561	6,399,514	6,310,109	+	89,405
1948	:	40,523,149	3,149	26,990,075	16,566,022	6,543,089	325,181	102,003	143,878	33,338	7,147,489	7,360,561	+	29,928*
949	:	47,327,034	7,034	33,829,561	17,448,526	8,129,973	300,277	194,995	147,797	32,776	8,305,818	8,879,517	+	29,301
950	:	61,358,803	8,803	51,270,067	18,200,424	9,446,008	436,862	244,100	171,504	40,183	10,338,657	10,688,025	1	249,368‡
1951	:	93,096,608	809'9	83,647,043	19,308,612	11,524,389	520,052	203,418	175,063	31,576	12,454,498	12,452,638	+	1,860
952	:	124,010,685	0,685	117,048,987	20,595,756	15,099,864	751,676	295,434	180,697	5,992	16,333,663	16,124,453	+	209,210
1953	:	150,386,03	1 £0'9	139,127,925	22,521,090	19,189,514	932,481	422,031	184,596	7,943	20,736,565	20,393,414	+	343,151
1954	:	173,313,439	3,439	164,086,427	24,533,646	22,117,381	884,552	484,330	184,756	6,860	23,680,979	23,321,485	+	359,494

### STATE ELECTRICITY COMMISSION OF VICTORIA

### DEBENTURES AND INSCRIBED STOCK -- CURRENT AS AT 30th JUNE, 1954

Loans Raised under the Authority of the State Electricity Commission Act No. 4512 and Amendments

Loan No.		Amount Authorised	Amount Subscribed and Received	Rate	Term	Due	Sinking Fund	Amount Redeemed	Outstanding as at 30th June
		£ 000	£	4.25	Years	1955	%	£ s. d.	£ s.
Loan No. 7 Loan No. 9		150,000	150,000 300,000	3 · 4375	15   16	1955	ŀ	9,000 0 0	150,000 291,000
oan No. 10		1,000,000	1,000,000	3 · 375	10	1955	į	103,156 18 7	896,843
Loan No. II Loan No. 12		150,000 1,350,000	150,000	3·3125 3·3125	01	1956 1956	!	11,602 19 9 104,426 18 1	138,397
oan No. 13	•••	500,000	500,000	3.3125	lŏ	1957	l i	104,426 18 1 38,676 12 8	1,245,573 461,323
oan No. 14		500,000	500,000	3 · 25	10	1957	!	38,603 9 5	461,396 1
oan No. 15 oan No. 16	•••	1,000,000	1,000,000	3·25 3·25	15 15	1962 1962		65,091 9 3 32,545 14 9	934,908 1 467,454
oan No. 17		500,000	500,000	3 - 25	15	1963	i		467,454
oan No. 18		1,000,000	1,000,000	3 1875	10	1958 1958	!	32,545 14 9 64,989 7 5 46,792 7 0	935,010 1
Loan No. 19 Loan No. 20		720,000 1,000,000	720,000	3 · 1875 3 · 1875	100	1958	i	46,792 7 0 64,989 7 5	673,207 I 935,010 I
Loan No. 21	•••	1,000,000	1,000,000	3 · 1875	10	1958	į	53,290 14 7	946,709
Loan No. 22 Loan No. 23	•••	1,000,000	1,000,000	3 · 1875 3 · 1875	10	1958 1958		53,290 14 7 53,290 14 7	946,709 946,709
Loan No. 24		500,000	500,000	3 · 1875	iŏ	1958	i	26,645 7 4	473,354 I
oan No. 25	•••	1,340,300	1,340,300	3 1875	!2	1961	!	30,450 0 0	1,309,850
Loan No. 26 Loan No. 27	•••	1,500,000	1,500,000 300,000	3 · 1875 3 · 1875	10	1959 1961		79,936   11 15,987 4 5	1,420,063 I 284,012 I
Loan No. 28		360,000	360,000	3 · 1875	12	1961	į		360,000
Loan No. 29 Loan No. 30	•••	2,334,000 2,000,000	2,334,000 2,000,000	3 · 1875 3 · 1875	12	1961 1959		71,050 0 0 83,906 18 6	2,262,950 1,916,093
Loan No. 31		500,000	500,000	3 · 1875	iŏ	1959	i	20,976 14 8	479,023
.oan No. 32	•••	1,000,000	000,000,1	3 · 1875	10	1959	1.	41,953 9 3	958,046
Loan No. 33 Loan No. 34		1,250,000	1,250,000 1,000,000	3 · 25 3 · 25	12	1961 1959	0·5 0·5		1,250,000 1,000,000
oan No. 35		1,000,000	1,000,000	3 · 1875	10	1959	0.5	20,976 14 8	979,023
oan No. 36	•••	400,000	400,000	3.25	15	1964	0.5	8,398 10 4	391,601
oan No. 37 oan No. 38		1,000,000	1,000,000	3·25 3·1875	15 10	1964 1959	0·5 0·5	20,976 14 8	100,000 979,023
oan No. 39		1,000,000	1,000,000	3 · 1875	10	1960	0.5	20,976 14 8	979,023
oan No. 40	•••	2,488,800 1,000,000	2,488,800 1,000,000	3 · 25 3 · 1875	15 10	1965 1960	0·5 0·5	36,550 0 0 20,976 14 8	2,452,250 979,023
Loan No. 42		1,500,000	1,500,000	3.3125	12	1962	0.5	20,976 14 8	1,500,000
oan No. 43	•••	1,000,000	1,000,000	3-3125	15	1965	0·5 0·5		1,000,000
oan No. 44 oan No. 45		193,000 220,000	193,000 220,000	3·3125 3·1875	15 10	1965 1960	0.5	4,614 17 8	193,000 215,385
oan No. 47		550,000	550,000	3.3125	12	1962	0.5		550,000
oan No. 48	• • • •	500,000	500,000 500,000	3·3125 3·1875	12  0	1962 1960	0·5 0·5	10,488 7 4	500,000
Loan No. 49 Loan No. 50		500,000 3,106,050	3,106,050	3 · 25	15	1965	0.5	44,000 0 0	489,511 I 3,062,050
oan No. 51		500,000	500,000	3 · 1875	10	1960	0.5	7,741 12 0	492,258
oan No. 52 oan No. 53	•••	500,000 500,000	500,000 500,000	3·3125 3·375	15 15	1965 1965	0·5 0·5	7,751 3 7	492,248 I 500,000
.oan No. 54		1,800,000	1,800,000	3 · 375	15	1965	0.5		1,800,000
oan No. 55		500,000	500,000	3 · 375	12	1962 1969/70	0·5 0·5		500,000
.oan No. 56 .oan No. 57		250,000 500,000	250,000 500,000	3·375 3·375	19/20 14	1969/70	0.5		250,000 500,000
.oan No. 58		1,300,000	1,300,000	3 · 375	12	1962	0.5	···	1,300,000
.oan No. 59		500,000	500,000	3·375 3·375	14	1964 1962	0·5 0·5	•••	500,000 1,000,000
oan No. 60 oan No. 61		1,000,000	1,000,000	3.375	12	1962	0.5		1,000,000
.oan No. 62		500,000	500,000	3 · 375	12	1962	0.5		500,000
oan No. 64 oan No. 65	•••	500,000 800,000	500,000 800,000	3 · 375 3 · 325	12	1962 1962	0·5 0·5		500,000 800,000
oan No. 67	•••	250,000	250,000	3.375	12	1962	0.5		250,000
Loan No. 68	•••	6,000,000	5,998,450 250,000	3·375 3·375	12	1963 1962	0∙5 0∙5	70,300 0 0	5,928,150 250,000
Loan No. 70 Loan No. 71		250,000 500,000	500,000	3.375	12	1962	0.5	•••	250,000 500,000
oan No. 72	•••	250,000	250,000	3.375	12	1962	0.5		250,000
.oan No. 73 .oan No. 74		500,000 2,000,000	500,000 2,000,000	3·5 3·5	12	1963 1961	0·5 0·5		500,000 2,000,000
Loan No. 75		500,000	500,000	3.5	12	1963	0.5	J	500,000
oan No. 76	•••	1,000,000	1,000,000	3.375	10 12	1961 1963	0·5 0·5	15,511 18 10 1,553 2 3	984,488 98,446
.oan No. 77 .oan No. 78		350,000	100,000 350,000	3·5 3·5	16	1961	0.5	1,553 2 3 5,435 17 11	98,446 344,564
oan No. 79		200,000	200,000	3.5	10	1961	0.5	•••	200,000
Loan No. 81	•••	100,000	100,000	3.5	10 10	1961	0·5 0·5		100,000 200,000
oan No. 82 oan No. 83		1,500,000	1,500,000	3·5 3·5 3·5 3·5	10	1961	0.5	23,296 13 8	1,476,703
Loan No. 84	•••	150,000	150,000	3.5	[ 10	1961	0·5 0·5		150,000
Loan No. 85 Loan No. 86		6,000,000 25,000	5,993,700 25,000	3·5 3·5	10	1961	0.5	388 5 7	5,936,850 24,611
Loan No. 87		110.050	118,850	3⋅5	12	1963	0.5	1,845 17 6	117,004
Loan No. 88 Loan No. 89	•••	2,000,000	2,000,000	3·5 4·125	5   12	1956 1963	0·5 0·5	25,890 9 0 1,020 12 6	1,974,109 98,979
oan No. 90		2,000,000 100,000 1,000,000 1,000,000 4,930,000 1,000,000 4,212,050	100,000	4-125	12	1963	0.5	1,020 12 6	98,979 98,979 989,800
Loan No. 91	•••	1,000,000	1,000,000	4·0 4·125	10	1961	0·5 0·5	10,200 0 0	989,800
Loan No. 92 Loan No. 93		1,000,000	4,929,800 1,000,000	4-125	10	1961 1962	0.5	10,206 5 0	4,890,550 989,793
Loan No. 94		4,212,050	4,211,150 250,000	4-125	10	1962	0.5	32.650 0 0	4.178.500
Loan No. 95 Loan No. 96	•••	250,000	250,000 1,000,000	4·125 4·125	10	1962 1962	0·5 0·5	2,551 11 3 10,206 5 0	247,448 989,793 989,686 150,000
.oan No. 97		1,000,000	1,000,000	4 · 125	10	1962	0.5	10,313 13 0	989,686
.oan No. 98		150,000 3,500,000	150,000	3 · 625 4 · 125	10 10	1962 1962	0·5 0·5	20,900 0 0	150,000 3,479,100
oan No. 99 oan No. 102		2,403,450	3,500,000 2,401,250	4.5	18	1962	0.5	9,300 0 0	2,391,950
oan No. 104	•••	2,250,000	2,401,250 2,249,700	4.75	10.5	1963	0.5	6,500 0 0	2,243,200
.oan No. III .oan No. II6	•••	2,250,000 75,000	2,249,850 75,000	4·75 3.5	7/12 2	1960/65 1955	0.5	5,850 0 0	2,244,000 75,000
oan No. 117		100,000	100,000	4.875	25	1978	0.5		100,000
.oan No. 118	•••	1,000,000	1,000,000	4.75	7	1960	0-5 0-5	5,000 0 0	995,000 100,000
.oan No. 119 .oan No. 120	•••	100,000 2,119,200	100,000	4·75 4·75	7/12	1964 1960/65	0.5		2,119,200
.oan No. 122		500,000	500,000	4.875	10	1963	0.5		300,000
Loan No. 124	•••	100,000	100,000	4.875	12	1965 1968	0.5	15.182 16 3	100,000
Loan No. 126 Loan No. 127		3,000,000 2,000,000	3,000,000 2,000,000	4·875 4·75	15 7	1960	0·5 0·5	15,182 16 3 	2,984,817 2,000,000
Loan No. 128		50,000	50,000	4.875	7 25	1978	0.5		50,000
oan No. 130	•••	2.600.000	2,599,805	4.75	7/15/25	1960/68/78 1964	0·5 0·5		2,599,805 100,000
oan No. 131 oan No. 132		100,000 250,000	100,000 250,000	4·875 4·875	25	1964	0.5		250,000
.oan No. 133		1,000,000	1,000,000	4 · 75	7	1960	0.5		1,000,000
.oan No. 134		4,250,000	4,246,150	4.75	10/15	1963/68	0.5		4,246,150
	rward	111,845,700	111,830,055					1,727,874 8 9	110,102,180 1

### STATE ELECTRICITY COMMISSION OF VICTORIA

### DEBENTURES AND INSCRIBED STOCK --- CURRENT AS AT 30th JUNE, 1954

Loan No.	Amount Authorised	Amount Subscribed and Received	Rate	Term	Due	Sinking Fund	Amount Redeemed	Outstanding as at 30th June
Brought Forward—	£ 111,845,700	£ 111,830,055	%	Years		%	£ s. d. 1,727 874 8 9	£ s. d.
Loan No. 135	1,000,000	999,995	4.5/4.75	5/7/12	1958/66	0.5		999,995 0
Loan No. 136	1,000,000	1,000,000	4.875	15	1969	0.5		1,000,000 0
Loan No 137	100,000	100,000	4.875	15	1968	0.5		100,000 0
Loan No. 138	250,000	250,000	4.875	10	1963	0.5		250,000 0
Loan No. 139	75,000	75,000	4.875	25	1979	0.5		75,000 0
Loan No. 141	1,000,000	1,000,000	4.75	7	1961	0.5		0 000,000,1
Loan No. 142	5,000,000	4,996,395	4.75	10/20	1964/74	0.5		4,996,395 0
Loan No. 143	500,000	500,000	4.875	10	1964	0.5		500,000 0
Loan No. 144	1,000,000	1,000,000	4.875	15	1969	0.5	•••	0 000,000,1
Loan No. 146	50,000	50,000	4.875	25	1979	0.5	•••	50,000 0
Loan No. 147	250,000	250,000	4.875	10	1964	0.5		250,000 0
Loan No. 148	150,000	150,000	4.875	25 25	1979	0.5		150,000 0
Loan No. 149	100,000	100,000	4.875	25	1979	0.5		100,000 0
Loan No. 150	1,000,000	1,000,000	4.75	7	1961	0.5	•••	1,000,000 0
Loan No. 151	100,000	100,000	4.875	20	1974	0.5		100,000 0
Loan No. 152	75,000	25,000	4.875	10	1964	0.5	•••	25,000 0
Loan No. 153	250,000	250,000	4.875	10	1964	0.5		250,000 0
Loan No. 154	795,420	795,420	4.375	12	1966	0.5		795,420 0
Loan No 155	500,000	500,000	4.875	25	1979	0.5	•••	500,000 0
Loan No. 156	500,000	90,000	4.875	25	1979	0.5	•••	90,000 0
Loan No. 158	250,000	250,000	4-875	10	1964	0⋅5		250,000 0
	125,791,120	125,311,865					1,727,874 8 9	123,583,990 11

Issued by Undertakings Acquired by the State Electricity Commission of Victoria

Original Issues ... ... ... ... ... £642,400 0 0
Outstanding at Dates of Acquisitions ... ... £491,178 13 4
Outstanding at 30th June, 1954 ... ... ... £458,394 19 3

	Page
Appendix No. 6—Generation of Electricity—All Supply Authorities	 38
Appendix No. 7—Generation of Electricity—S.E.C. Power Stations	 39
Appendix No. 8—(a) Load Factors—S.E.C. Power Stations	 40
(b) Fuel Used by S.E.C. Power Stations	 40
Appendix No. 9—Capacity of Generators and Boilers Installed	 41–42

### GENERATION OF ELECTRICITY

### State of Victoria All Supply Authorities

Authority	State Electricity Com- mission	Melbourne City Council	Victo	orian State Ra	ailways		e Electric Co. Ltd.	Electric S of Victo	upply Co. oria Ltd.	Local Authorities	
Stations	See Appendix No. 7	Spencer- street, Melbourne	N	Newport "A"	,	Richmond	Geelong	Ballarat	Bendigo	Country Centres not Served	Total kWh Generate State of Victoria
	kWh	kWh	k	Wh (millions	s)	kWh	kWh	kWh	k₩h	by State Generating System	(millions
Year	(millions)	(millions)	(1)	(2)	Total	(millions)	(millions)	(millions)	(millions)	kWh (millions)	
192 <del>4</del> –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 · I	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
192930	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	_		i cquired by	l	20.0	855 · 4
193536	716·1	35 · 6	12.2	159·1	171 · 3	Stat	e Electrici   ···	ty Commis   ···	sion 	22 · 0	<b>945</b> ·0
1936–37	769 · 7	33 · 9	14-1	162 · 9	177 · 0					23.0	1,003 · 6
1937–38	836 · 1	34.7	14.5	165-2	179 · 7					26.0	1,076 · 5
1938–39	897 · 8	29 · 5	13 · 8	168.9	182 · 7			•••	•••	28.0	1,138.0
1939–40	1,024-2	33 · 3	14.5	153.7	168-2			·	•	26 0	1,251 · 7
1940–41	1,155-1	16.9	17-2	167 · 4	184-6				ļ. <b></b>	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 operated	14.6	151.5	166·1		ļ			22.0	1,643.5
1943–44	1,475.6	as part of State	15.2	153 · 8	169.0					24.0	1,668.6
194 <del>4-4</del> 5	1,502 · 3	system	14.7	168 7	183 · 4					24.0	1,709 · 7
1945–46	1,594 · 6		13.0	162 8	175 · 8		<b></b>			27.0	1,797 · 4
1946–47	1,690.7		15.5	164 - 4	179.9					29.0	1,899 · 6
1947 <u>–4</u> 8	1,904-4		18-3	200 · 0	218-3					34.0	2,156.7
19 <del>48-4</del> 9	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
1951–52	2,791 · 7			on acquire			•••			59.0	2 <b>,8</b> 50·7
1952–53	3,020 · 4		State Ele	ctricity Co 21/1/51	mmission				<b></b>	64.5	  3,084·9
1953–54	3,502 · 4						<b></b>		<b></b>	50 · 3	3,552.7

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

NOTE.—Electricity purchased by S.E.C. 1953/54—3.1 million kWh

GENERATION OF ELECTRICITY

# State Electricity Commission of Victoria

		Total	kWh (millions)		101.8	284·2 378·8 422·3	<b>461.2</b> 458.3 504.9	549.7 590.0 620.1	716.1	7-69-7	836-1	8.768	1024-2	1155-1	1330.5	1455-4	1475.6	1502.3	1594.6	1690.7	1904 - 4	2148.0	2362.8	2605.5	2791.7	3020-4	3502-4
Other Stations		Hamilton, Mildura and Redcliffs	M.D.kW summated	Hamilton acquired 17.46 Mildura acquired 1.10.53 Redcliffs commenced	::	::::	:::	:::	:	:	;	;	:	:	:	:	:	:	:	1,000	1,140	1,290	1,382	1,488	1,580	1,800	12,800
Other		Hamilton and R	kWh (millions)	Hamilton 1.7 Mildura 1.1 Redcliffs	} . ::	:::	:::	:::	:	:	:	:	:	:	:	:	:	:	:	2.8	3.6	4.5	5.2	80	9.9	7.0	29.2
	Total	Interconnected System	M.D.kW Coincident		40,500 50,000	7 <b>6,000</b> 87,500 95,500	103,160 109,013 116,959	123,404 127,621 141,993	158,862	173,300	181,847	198,000	218,600	261,820	297,696	319,300	328,000	351,600	377,100	364,750	449,500	436,930	504,090	497,370	533,370	602,310	701,650
	ļ <sup>2</sup>	Interco	kWh (millions)		101.8	284·2 378·8 422·3	<b>461-2</b> 458-3 504-9	549.7 590.0 620.1	716.1	7.69.7	836 · 1	8.7.8	1,024.2	1,155.4	1,330 · 5	1,455.4	1,475.6	1,502.3	1,594.6	6 · 289 · 1	8.0061	2,143.5	2,357·6	2,599.7	2,785-1	3,013.4	3,473-2
		Kiewa	M.D.kW	Operation commenced 1.9.44	::	:::	:::	:::	:	:	:	:	:	:	:	:	:	24,000	26,000	26,700	26,400	28,000	28,500	28,000	28,000	28,000	28,000
		Kie	kWh (millions)	Oper-	::	:::	:::	:::	:	:	:	:	:	:	:	:	:	18.7	51.4	61.5	68.3	‡ 4	46.8	48.7	65.8	2.99	62.3
		Eildon-Rubicon	M.D.kW	Operation commenced 14.3.28	::	11,500	19,300 23,100 23,400	23,400 22,800 25,300	25,400	25,490	25,090	24,300	25,400	20,800	25,600	26,100	25,700	25,500	25,650	25,850	25,850	25,550	26,050	26,050	26,150	25,950	26,950
		Eildon-F	kWh (millions)	Operation 14.3	::	4.8	77.9 120.9 122.4	101.0	134.7	4.	92.6	103 · 2	149.5	8 · 26	133-4	156.2	130.4	- - - -	134.3	144.7	8-191	139.1	129.2	146.0	9.091	168.2	9.2.6
		Shepparton and Warrnambool	M.D.kW summated	commenced on 7.3.51 oool 7.4.52	::	:::	:::	:::	:	:	:	:	:	:	:	:	:	;	:	:	:	:	:	1,663	4,083	12,000	15,230
		Shepparton and Warrnamboo	kWh (millions)	Operation commenced Shepparton 7.3.51 Warrnambool 7.4.52	::	:::	:::	:::	:	:	:	:	:	:	:	:	;	:	:	:	:	:	:	8.0	5.4	12.3	30.2
E	Stations	,, & ,,B,,†	M.D.kW summated	'A' Station acquired 1.7.34	::	:::	:::	3,711	3,825	3,750	3,797	2,716	2,988	3,820	4,140	2,960	2,400	2,000	5,350	5,150	2,650	5,850	9,000	6,100	2,900	9'000	29,800
cted System	Regional Stations	Ballarat "A" & "B"†	kWh (millions)	'A' Station 1.7	11	:::	:::		13.2	12.5	0.01	4.6	9.11	14:3	14.6	15.0	20.8	18.9	0.91	18.0	8.8	8.8	15.6	16.7	16.7	22.5	53.4
Interconnect		A" & "B"	M.D.kW summated	ation ired .30	::	:::	5,570	6,560 6,690 6,980	7,930	7,930	8,620	9,230	7,710	10,050	10,600	008,11	12,200	11,200	11,900	11,800	11,750	11,800	11,950	11,400	12,100	12,000	47,400
<u>-</u>		Geelong "A" &	kWh (millions)	'A' Station acquired 1.9.30	::	111	20.5	27·1 29·5 30·8	¥ -	32.1	34.4	38.0	31.5	21.7	30.7	34.3	44.8	38.8	31.2	26.9	33.	32.9	28.6	30.6	45.8	1.94	103 · 6
		(Melbourne City Council)	M.D.kW	Station operated as part of State system from [.1.4]	::	::::	:::	:::	:	:	:	:	:	26,000	35,000	33,000	40,650	35,070	34,200	29,820	34,500	35,220	41,910	38,700	39,450	35,400	73,000
	3	(Melbor Cou	kWh (millions)	Station as part syster L.	::	:::	:::	:::	:	i	:	:	:	0.91	<u>‡</u>	55.4	63.8	59.3	55.0	51.1	€.99	77.0	105.4	105.6	94.2	93.6	212-4
		Richmond	M.D.kW	Station acquired and reconditioned. Restarred 6.5.29	::		16,200 15,520 15,000	15,360 15,120 15,500	15,100	15,400	15,300	15,200	15,400	15,360	15,540	12,600	15,600	15,530	15,600	15,520	15,400	15,600	15,600	15,000	14,800	52,000	21,900
		Rich	kWh (millions)	Station and reco Rest 6.1	::	: ; ; ; ;	21.9 26.6 25.7	22.6 56.5 56.5	29.8	25.3	24.2	26.7	16.2	21.2	35.2	38.6	44.5	40.7	33.1	23.5	29.6	26.1	26.6	19.5	28.7	72.2	202.0
		Newport	M.D.kW	Operation commenced 12.10.23 Newport "A" acquired 21.1.51	15,800	19,800 20,800 20,000	21,000 19,800 18,800	14,400 18,500 18,200	19,300	19,000	18,600	19,600	35,000	45,300	54,800	63,000	71,600	89,500	93,500	88,000	134,000	138,000	175,000	242,800	249,400	305,000	304,400
		2	kWh (millions)	Ope comi 12. Newpo	53.4	45.4 54.3 49.0	38.4 9.8 9.8	54.0 54.0	16.7	27.2	27.1	23.9	39.3	‡ •	45.2	45.8	83.3	3. 1	136.9	9-181	299.0	513.6	717-8	990.5	1,085.5	1,205.2	1,322.7
		Yallourn*	M.D.kW	Operation commenced 15.6.24	37,500	61,000 68,500 64,000	<b>62,500</b> 63,000 80,000	88,500 95,000 94,000	107,500	122,500	140,500	136,500	168,000	171,500	187,500	186,000	188,000	187,000	190,500	185,000	195,500	194,000	186,500	187,000	196,000	202,500	243,000
		Yall	kWh (millions)	Ope comm	48.4 142.7	238·8 3/9·7 304·5	310·6 251·9 320·1	386·2 429·3 310·8	487.6	531-2	654.8	9.969	1.9//	939.5	1,027 · 3	- 61.	0.880,1	1,133-2	1,136.7	1,180.6	1,223.9	1,291.6	1,287.6	1,241.8	1,282.4	1,326.6	1,394.0
		Station	Year		1924-25 1925-26	1926–27 1927–28 1928–29	1929-30 1930-31 1931-32	1932~33 1933—34 1934—35	1935-36	1936-37	1937-38	1938-39	1939-40	1940	1941-42	1942	1943-44	1944-45	1945-46	1946-47	1947–48	1948-49	1949–50	1950-51	1951-52	1952-53	1953-54

\*Including electricity transferred from Briquette Factory. †Including Bendigo, acquired 1/7/34, closed down 31/12/37

STATE ELECTRICITY COMMISSION OF VICTORIA

(a) LOAD FACTORS AT POWER STATIONS

Based on Appendix No. 7

					χ	ased on	Appendix No.	No.					
	-						s connected of	sterii.					Other Stations
Year Ended 30th June		Yailourn (including electricity from Briquette Factory)	Newport	Richmond		Spencer St. (Melbourne City Council)	Geelong "A" and "B"	Regional Stations Ballarat "A" and "B"	Shepparton and Warrnamb'i	Eildon- Rubicon	Kiewa	Total Interconnected System	Hamilton, Mildura and Redcliffs
		%	%	0/		%	,'o	%	/0	%	%	0,'0	%
	:	54.3	28.0	2.7		:	:		:	45.7	:	50.5	:
1934	· :	9.15	4.7	1.7.1		:	50.3	:	:	9.05	÷	52.8	;
6861	:	58.3	13.9	20-1	_	:	47.0	39.5	:	48.5	:	8-15	:
1944	;	62.9	13.2	32.5		17.9	41.8	43.9	:	57.8	:	51.2	÷
1949		76.0 775.8 74.5 74.8 65.5	24 4 4 4 4 5 5 5 5 6 4 4 5 5 6 4 6 5 6 6 6 6	22.44 2.55 2.95 2.95 2.95 2.95		25.0 28.7 31.2 30.2 33.2	31.8 27.3 30.6 43.1 24.9	36.7 31.3 32.2 20.5	 5.5 15.1 22.6	62.2 56.6 69.9 74.0 39.2	18.1 19.7 26.8 27.2 25.4	55.0 59.74 57.74 56.5 57.1	39.8 4.4.5 26.0 4.6.5 26.0
				( <u>a</u>		USED AT	POWER	STATIONS					
Station	Type of Fuel	1953-54	54	1952-53	1951-52	1950-51	1949-50	50	1948-49	1947-48	1946-47	1945-46	1944-45
Yallourn	Brown Ccal Briquettes Oil	4.		4,263,197	4,154.742	3,968,509	9 4,075,675 8 10,416		4,035,535	3,765,828 6,155	3,666,105	3,517,235	3,530,260
Newport*	Brown Coal Briquettes Black Coal Oil		742,472 253,352 259,640 26,303	722,884 217,028 220,935 3 <b>8,</b> 498	562,198 244,083 241,733 26,332	m 0 0		332,676 273,034 46,173 18,551	94,155 279,956 62,569 2,266	315 232,439 5,669	290 153,882 736 10	103,981	23,049 44,588 
Richmond	ettes		29,662 51,740	 25,103 15,739 154	32,695	23,180		30,564	29,783	32,313	27,248	36,169	42,212 
Spencer Street (Melbourne City Council)	Brown Coa Briquettes Black Coal Oil Coke	When	41,547 8,706 37,017 52,113	60,364 1,223 19 40,088	65,935 65,935 15 22 35,903	69,261 6,008 23 37,828		71,610 221 18 42,014	49,475 276 17 17	41,411 1,142 34,542	113 34,069 1,125 23,817	564 12,770 14,940 	371 11,537 25,039 
Geelong "A" and "B"	Brown Coal		106,955 26,431	7,378	66,906 10,544	11,356		31,093	35,407	35,321	30,169	33,828	40,542
Ballarat "A" and "B"	Brown Coa Briquettes Oil	::	77,318 18,531 1,386	25,144	19,628	19,747		 18,135	27,72	22,845	21,791	19,577	22,371 
Shepparton	I <u>o</u>	. 5	5,975	2,099	1,173	177			:	:	:	:	÷
Warrnambool	Oil	<b></b>	1,448	829	001	:	:		:	:	:	:	:
Hamilton†	Oil Wood	<u>-</u>		1,650	1,565	715,1		1,132	975	812 1,289	623 1,033	::	: :
Mildura 🕆	Briquettes		14,284	:	÷	:			:	:	:	:	:
Redcliffs +	Briquettes		8,434		: :	: :	: :		: :	: :	: :	: :	: :
	New	ort "A" fro	1	†Acquired 1/7/46.		#Acquired 1/10/53.	+Commenced operation 16/1/54	d operation l	5/1/54.				

### STATE GENERATING SYSTEM

# (a) TOTAL INSTALLED PLANT CAPACITY (i) Interconnected System Maximum Continuous rating of plant installed at 30/6/54 Add—Available from Yallourn Briquette Factory ... ... ... 8,000 Total ... ... ... ... ... ... 791,475 (ii) Not connected to state system Maximum continuous rating of plant installed at 30/6/54 Note—At Yallourn, Newport, Spencer Street, Richmond, Ballarat 'A' and Mildura Stations, generators could not be used to full capacity because of limitations on boiler capacity.

### (b) GENERATORS INSTALLED AT POWER STATIONS

(i) Interconnected System

	Power	Station		.	Set No.	Make	Maximum Continuous Rating	Voltage	R.P.M.	Year Installed
ailourn				-		Metropolitan Vickers	kW			
anour n	•••	•••	•••	, •••	1 2	metropolitan Vickers	12,500 12,500	11,000	3,000 3,000	1924 1924
				. [	3 1	y y	12,500	11,000	3,000	1924
					5	, ", ", ", ", ", ", ", ", ", ", ", ", ",	12,500	11,000	3,000	1924
						: я у у у	12,500	11,000	3,000 3,000	1925 1928
					6	. " "	25,000	11,000	3,000	1932
	1.			i i	8 .	» » ···	25,000	11,000	3,000	1935
				- 1	10	n n	25,000 25,000	11,000	3,000 3,000	1938
					C2	Parsons	50,000	11,000	3,000	1954
lewport	•••	•••	•••	. •••	A1* A2*	Parsons	12,500	3,300	1,500	1918
					A3+	» ··· ·· ··	30,000 14,000	20,000 3,300	1,500 1,500	1951
				.	A4* ·	"	30,000	20,000	1,500	1943
					A5*	. ,,	12,500	3,300	1,500	1921
					A6*	. ,,	14,000	3,300 6,600	1,500 3,000	1923 1923
					2	**	15,000	6,600	3,000	1923
					3	Brown Boveri	30,000	22,000	3,000	1939
					4 · 5	Parsons	30,000 30,000	22,000 11,000	3,000 3,000	1945 1946
					6	» ··· ··· ···	30,000	11,000	3,000	1948
					7 .		30,000	11,000	3,000	1950
Ichmond					8	Brush Ljungstrom Metropolitan Vickers	18,000 15,000	6,600 6,600	3,000 3,000	1944 1929
	,	•••	•••		2	Brown Boveri	38,000	11.000	3,000	1952
eelong	•••	•••	• • • •	•••	Ĭ	Brush Ljungstrom	1,500	6,600	3,000	1921
					2	Metropolitan Vickers	3,000 3,000	6,600 6,600	3,000 3,000	1922 1923
					4 %	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	3,000	6,600	3,000	1925
				]	BI	Westinghouse Rosebery	10,000	11,500	3,000	1953
					B2 B3	" "	10,000	11,500	3,000 3,000	1954 1954
allarat					Ι .	Brush Ljungstrom	1,400	6,600	3,000	1925
					3.	" » ··· ···	1,400	6,600	3,000	1925
					4	" " " " ··· ··· ···	1,400	6,600 6,600	3,000 3,000	1937 1940
					5*:	Brush Electrical	300	500	2,400	1912
					BI B2	Westinghouse Rosebery	5,000	6,900	3,000	1954
				٠, ا	B3 /	, 11 11 1 <sub>1</sub> 1 <sub>1</sub> 1 <sub>1</sub> 1 <sub>1</sub> 1 <sub>1</sub> 1 <sub>1</sub> 1 <sub></sub>	5,000 5,000	6,900 6,900	3,000 3,000	1954 1953
54	(M-11-				B4 :	••	5,000	6,900	3,000	1953
pencer St.	(Pielbo	ourne C	ity Co	ounci!)	l · . 5	English Electric Bellis & Morcom	5,500 3,900	6,600 6,600	3,000 3,000	1927
					6	Parsons	5,500	6,600	3,000	1913
				.	7	A.S.E.A	6,875	6,600	3,000	1939
				. 1	9	Parsons	6,875	6,600	3,000	1939
					9 11		15,000 30,000	6,600 22,000	3,000 3,000	1949 1953
reppartor	·	•••	•••		1 .	Mirrlees	830	6,600	375	1951
					3	" ··· ·· ··	830	6,600 6,600	375 375	1951
					4	" ··· ··· ···	830 830	6,600 6,600	375 375	1951
					4 5	"	830	6,600	375	1952
					6	Sul	830	6,600	375	1952
					8	ouizer	1,850 1,850	6,600 6,600	250 250	1953 1953
/aren	1				9		1,850	6,600	250 375	1953
/arrnamb	JOI .	•••	•••	•••	2	Mirriees	830 830	6,600 6,600	375 375	1952 1952
					3 😁	" ··· ··· ···	830	6,600	375 375	1952
					5	,,	830	6,600	375	1953
					6	, , , , , , , , , , , , , , , , , , ,	830 830	6,600 6,600	375 375	1953 1953
ubicon Fa	lls		•••		ĺ	Boving	275	6,600	500	1926
ower Rub	icon	•••	•••	;	1	س	2,700	6,600	750	1928
ubicon			•••	[	i ,	» ··· ··· ···	840 4,550	6,600 6,600	1,000 500	1928 1928
lows					2		4.55Q	6,600	500	1928
iewa	•••	•••	•••	•••	2	English Electric	13,000	11,000	428	1944
						» » ··· ···	13,000	11,000	428	1945

<sup>\*</sup>Newport Nos. A1 to A6 inclusive-25 cycle; Ballarat No. 5-D.C.; all others A.C., 3 phase, 50 cycle.

### (ii) Not connected to State System

iamilton	•••	 		2 4 5 6	Crossley Mirrlees	2 3	SO 415 00 415 10 415 20 415 70 415	375 230 300 300 375	1947 1946 1937 1937
1ildura		 	<b>.</b>	8     2   3	Metropolitan Vickers Stal. " "	7,0	70 415 00 6,600 00 6,600	375 1,000 1,000 3,000	1950 1951 1932 1934 1940
edcliffs		 		4 1 2	Metropolitan Vickers Westinghouse Rosebery	2.5	00 6,600	1,500 3,000 3,000	1950 1954 1954

### (c) BOILERS INSTALLED AT POWER STATIONS

(i) Interconnected System

	Power	Statio	n		Boiler No.	Make	Rated Evaporative Capacity of each Boiler lb./per hour	Working Pressure of each Boller lb. (gauge) per sq. in.	Total Steam Temperature Including Superheat Deg. F.	Year Installed
Yallourn					1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 20 20 21 22 CC 6	John 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 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 1928 1927 1925 1925 1925 1924 1931 1937 1938 1938 1937 1937 1939 1939
Newport					C6 A1 A2 A3 A10 A11 A12 A13 A14 A15 A16 A17 A18	Babcock & Wilcox International Combustion	200,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 54,000	645 200 200 200 200 200 200 200 200 200 20	840 600 600 600 600 600 600 600 600 600 6	1954 1918 1918 1918 1918 1918 1918 1918 191
					A20 A21 A22 A23 A24 AIM	Babcock & Wilcox	30,000 30,000 30,000 30,000 30,000 187,500	200 200 200 200 200 200 400	600 600 600 600 600 780	1927 1918 1918 1918 1918 1918
					A2M A3M A4M	nternational Combustion	187,500 187,500 187,500 43,000	400 400 400 270	780 780 780 650	1951 1943 1943 1923
					3 4 5 5	Babcock & Wilcox	43,000 43,000 43,000 43,000	270 270 270 270 270 270	650 650 650 650 750	1923 1923 1923 1923 1923
					6 7 8 9 10		60,000 60,000 60,000 60,000 60,000	270 270 270 270 270 270 620	750 750 750 750 750 820	1939 1939 1939 1939 1939
					12 13 14 15 16 17 18	John Thompson	160,000 160,000 160,000 160,000 160,000 160,000	620 620 620 620 620 620 620	820 820 820 820 820 820 820	1945 1947 1948 1950 1950 1950
lichmond		•••	•••	•••	1 2 15 16 17	Babcock & Wilcox	20,000 20,000 20,000 20,000 20,000	160 160 160 160	570 570 570 570 570	1917 1919 1921 1920 1921
Seelong					Velox No. 1 Velox No. 2 I 2	Brown Boveri	20,000 165,500 165,500 27,000 27,000	160 650 650 200 200 200 200 200 200	570 850 850 588 588	1920 1953 1952 1921 1921
					3 4 5 6 BI	John Thompson	27,000 27,000 27,000 27,000 110,000	625	588 588 588 588 588 588 825	1953 1952 1921 1921 1922 1922 1924 1924
Ballarat					B2 B3 I 2	Westinghouse Rosebery	110,000 110,000 11,000 11,000	625 625 160 160	825 825 600 600 600 600 600 760	1954 1954 1906 1906 1906
					5 B1 B2 B3	Westinghouse Rosebery	11,000 11,000 70,000 70,000 70,000	625 625 160 160 160 160 430 430 430	760 760	1913 1937 1954 1954 1953
Spencer Str (Melbo City	eet urne Counc	 il)			B4 1 2 3	Babcock & Wilcox	70,000 25,000 25,000	160	760 570 570 570	1953 Reconsto 1925 1925 1925
					3 4 6 8 10 12 14	John Thompson Babcock & Wilcox	25,000 25,000 55,000 55,000 55,000 55,000	160 160 160 160 160 160	570 570 570 570 570 570 570	1925 1938 1934 1937 1939
					16 22 24 CI	John Thompson	55,000 60,000 60,000 300,000	160 165 165 620	570 620 620 820	1936 1941 1941 1953
	(ii)	Not	con	necte	ed to State	System		,		
Mildura	•••				1 2 3 4	Babcock & Wilcox	14,000 14,000 14,000 30,000	260 260 260 260	650 650 650 700	1939 1939 1940 1951
Redcliffs	•••	•••	•••	•••	2	Westinghouse Rosebery	70,000 70,000	430 430	760 760	1954 195 <b>4</b>

			Page
Appendix N	No. 10—Victorian Electricity Supply Undertakings—S Consumer and Sales Statistics	Summary 	of 44
Appendix N	No. 11—Consumer Statistics (S.E.C		44
Appendix N	No. 12—Electricity Sales and Revenue (S.E.C.)	•••••	45
Appendix N	No. 13—Standard Tariffs		46
Appendix N	No. 14—Transmission and Distribution System	•••••	47
Appendix N	No. 15—Country Undertakings Acquired—Increased since Acquisition	Developm 	ent 48

# ELECTRICITY SUPPLY UNDERTAKINGS — STATE OF VICTORIA STATISTICAL SUMMARY AT 30th JUNE, 1954 — CONSUMERS AND SALES

	Panulasia.	Cons	umers	Retail Sa	les
-	Population Area Served	Number	Percentage of Grand Total	k₩h	Percentage of Grand Total
State Electricity Commission of Victoria— Metropolitan Provincial Cities Country	973,880 151,290 627,872	257,259 47,268 197,467	37·61 6·91 28·87	1,235,836,611 166,097,752 568,007,780	46·09 6·19 21·18
Total	1,753,042	501,994	73 · 39	1,969,942,143	73 · 46
Other Undertakings— Metropolitan (receiving Bulk Supply from State Electricity Commission of Victoria) Country (Local Undertakings)	512,649 92,600	155,310 26,722	22·70 3·91	670,553,841 41,046,793	25·01 1·53
Total	605,249	182,032	26.61	711,600,634	26.54
Grand Total	2,358,291*	684,026	100.00	2,681,542,777†	100.00

<sup>\*</sup> Total population of Victoria—2,448,697.

### APPENDIX No. 11

### STATE ELECTRICITY COMMISSION OF VICTORIA

### CONSUMER STATISTICS

### (a) AGGREGATES FOR ALL BRANCHES 1935 - 1954

Year Ended	Population		Number of	Consumer	's	Percentage of Con-		Wh Sold pe sumer (Aver		Motors C	Connected	Number
30th June	of Area of Supply	Domestic	Industrial	Com- mercial	Total (all classes except Bulk)	sumers to Population	Domestic	Industrial	Com- mercial	Number	H.P.	of Farm: Supplied
935 936 937 938 939	 972,000 972,000 984,000 1,018,000 1,050,000	178,389 188,957 198,587 210,209 220,419	3,366 3,669 4,099 4,710 5,386	31,619 32,571 32,984 34,185 <b>34,781</b>	213,669 225,534 235,942 249,244 260,733	22·0 23·2 24·0 24·5 24·8	466 487 520 540 <b>566</b>	47,903 48,300 47,970 45,286 42,158	1,257 1,377 1,509 1,611 1,734	24,260 26,608 29,063 32,386 36,282	191,550 204,503 213,667 227,903 245,697	2,025 2,540 3,200 4,030 <b>4,9</b> 85
940 941 942 943 944	 1,080,000 1,104,000 1,123,000 1,141,000 1,149,000	230,312 242,035 251,185 255,701 258,447	6,101 6,746 7,169 7,457 <b>8,073</b>	35,178 35,428 33,840 33,408 33,781	271,749 284,373 292,341 296,717 300,465	25 · 2 25 · 8 26 · 0 26 · 0 26 · 1	626 658 703 756 <b>793</b>	43,483 47,604 53,236 56,911 51,656	1,917 2,081 2,245 2,626 2,769	41,530 46,114 50,465 54,285 59,483	275,458 299,988 322,283 345,924 3 <b>65,746</b>	5,785 6,410 6,785 7,032 <b>7,467</b>
945 946 947 948	 1,193,000 1,200,000 1,253,000 1,300,000 1,353,000	266,463 273,382 287,188 300,671 315,191	9,594 11, <b>5</b> 42 13,416 14,845 <b>16,200</b>	34,944 36,529 38,496 39,544 40, <b>539</b>	311,172 321,631 339,286 355,258 372,135	26·8 26·8 27·1 27·3 27·5	838 928 1,015 1,151 1,370	43,189 35,663 33,209 32,813 33,061	2,934 3,104 2,769 3,132 3,400	65,983 71,796 77,735 84,361 90,896	401,085 430,452 454,901 481,408 505,877	8,772 10,209 11,680 13,181 14,419
950 951 952 953	 1,414,000 1,496,000 1,574,000 1,651,000	331,506 353,239 376,977 399,171 426,461	17,476 19,160 21,285 23,228 25,882	41,813 43,066 44,527 46,334 49,410	391,005 415,682 443,014 468,961 <b>501,994</b>	27·7 27·8 28·1 28·4 28·6	1,556 1,566 1,496 1,600	32,301 32,171 29,025 27,601 29,844	3,555 3,817 3,736 3,976 <b>4,330</b>	96,150 101,988 107,234 112,173 121,664	528,618 565,298 590,164 613,855 657,970	15,741 17,572 19,953 22,326 2 <b>7,082</b>

### (b) ELECTRICITY SUPPLY BRANCHES — 1953 AND 1954

		Population	·	Number of	Consume	rs	Percentage of Con-		Wh Sold pe sumer (Aver		Motors C	Connected	Number of Farms
Branch		of Area of Supply	Domestic	Industrial	Com- mercial	Total (all classes except Bulk)	sumers to Population	Domestic	Industrial	Com- mercial	Number	H.P.	Supplied
Metropolitan	1954	981,127	229,725	5,940	21,803	257,510	26·25	1,871	74,199	4,852	64,119	334,230	1,150
	1953	950,279	222,746	5,825	21,185	249,797	26·29	1,647	64,520	4,329	61,026	320,136	1,166
Ballarat	1954	62,775	16,067	971	2,391	19,445	30·98	1,093	26,018	3,727	<b>5,4</b> 55	27,513	1,125
	1953	60,779	15,449	909	2,351	18,725	30·81	998	23,723	3,502	<b>5,17</b> 9	26,701	1,020
Bendigo*	1954	72,640	18,542	1,252	2,547	22,370	30·80	1,333	20,171	3,320	6,0 <b>45</b>	36,886	3,097
	1953	43,620	11,406	614	1,725	13,766	31·56	1,200	22,815	2,402	3,017	20,642	696
Geelong	1954	79,160	21,759	853	2,857	25,483	32 · 19	1,302	76,283	3,904	6,971	50,048	1,025
	1953	77,030	19,998	775	2,694	23,481	30 · 48	1,177	69,235	3,522	6,591	48,214	938
Eastern	1954	189,089	53,69 <b>6</b>	2,856	5,205	61,787	32·68	1,977	10,325	4,413	6,566	43,847	4,124
Metropolitan	1953	171,944	48,966	2,617	<b>4,7</b> 22	56,335	32·76	1,848	9,090	4,171	5,874	41,412	3,804
Gippsland	1954	12 <b>7,251</b>	29,244	5,182	4,436	38,889	30·56	1,867	10,484	3,389	10,274	55,131	5,826
(incl. Yallourn)	1953	126,361	27,457	4,789	4,092	36,364	28·78	1,795	9,206	3,193	9,743	51,709	5,278
Midland	1954	46,900	10,298	1,042	1,854	13,214	28·17	1,144	14,144	2,641	2,843	16,744	1,380
	1953	44,770	9,733	927	1,773	12,452	27·81	1,070	15,435	2,515	2,711	15,891	1,176
North Eastern	1954	116,928	28,821	4,326	5,15 t	38,335	32·79	1,694	18,413	5,638	13,416	73,739	5,090
(incl. Kiewa)	1953	102,384	26,388	3,748	4,80 l	34,973	34·16	1,587	16,895	5,653	12,469	70,070	4,530
South Western	1954	77,172	18,309	3,460	3,166	24,961	32·34	1,758	7,487	2,336	5,9 <b>75</b>	19,832	4,265
	1953	73,487	17,028	3,024	2,991	23,068	31·39	1,609	7,607	2,118	5,563	19,080	3,718
Total	1954	1,753,042 1,650,654	426,461 399,171	25,882 23,228	49,410 46,334	501,994 468,961	28·6 28·4	1,770 1,600	29,844 27,601	4,330 3,976	121,664	657,970 613,855	27,082 22,326

<sup>\*</sup>Including Mildura acquired 1/10/53.

 $<sup>\</sup>uparrow$  Electricity sales per head of population—1095 kwh.

### STATE ELECTRICITY COMMISSION OF VICTORIA

# ELECTRICITY SALES AND REVENUE (a) AGGREGATES FOR ALL BRANCHES, 1935 - 1954

						Sales	_kWh (Mil	lions)				Reve	nue	
Yea	r Ende	ed 30th .	lune									Р	er kWh Sc	old
				Bulk Supplies	Public Lighting	Domestic	Industrial	Traction	Commercial	Total	Total	Domes- tic	Indus- trial	Com- mercial
				:		,					£	d.	d.	d.
1936 1937				181 · 900 211 · 004 220 · 031 241 · 988 257 · 394	11 · 681 11 · 975 12 · 408 12 · 950 14 · 282	81 · 367 89 · 630 100 · 994 110 · 597 122 · 134	156-789 170-453 186-415 202-249 215-175	46·325 49·543 54·136 56·025 58·197	39·437 44·231 49·372 54·080 59·915	517 · 499 576 · 836 623 · 356 677 · 889 727 · 097	2,995,962 3,164,629 3,331,561 3,528,396 3,685,538	3·008 2·789 2·635 2·559 2·420	0·978 0·969 0·943 0·929 <b>0·922</b>	3·353 3·134 2·915 2·714 2·567
1941 1942 1943	:			285 · 031 311 · 546 369 · 236 404 · 121 422 · 287	16.804 16.516 10.509 11.694 15.984	141 · 172 155 · 726 173 · 951 192 · 067 203 · 979	252·072 307·239 377·439 417·220 400·129	59 · 844 60 · 199 64 · 295 66 · 085 66 · 008	67 · 224 73 · 547 78 · 168 87 · 821 92 · 938	822 · 147 924 · 773 1,073 · 598 1,179 · 008 1,201 · 325	3,881,022 4,241,264 4,657,452 4,935,602 5,101,631	2 · 165 2 · 059 1 · 973 1 · 869 1 · 822	0.883 0.842 0.847 0.799 0.830	2·338 2·262 2·112 1·908 1·835
1946 . 1947 . 1948 .	:			417 · 193 447 · 005 449 · 380 506 · 780 563 · 296	16·782 17·255 17·614 18·106 18·607	220 · 247 250 · 245 285 · 596 339 · 025 422 · 681	387·365 383·018 421·887 468·238 516·071	65·299 66·605 65·107 66·900 68·181	100·790 110·413 104·539 122·448 136·179	1,207 · 676 1,274 · 541 1,344 · 123 1,521 · 497 1,725 · 015	5,259,890 5,605,333 5,835,194 6,543,089 8,129,973	1 · 783 1 · 700 1 · 606 1 · 506 1 · 517	0·852 0·883 0·868 0·874 <b>0</b> ·977	1.781 1.814 1.900 1.905 2.070
1951 . 1952 . 1953 .	:			613·552 656·488 679·665 729·369 844·749	14·253 17·982 20·451 21·228 22·508	504·311 536·844 547·213 623·067 734·281	546 · 607 592 · 261 590 · 871 617 · 150 739 · 596	54 · 998 135 · 548 236 · 265 248 · 115 265 · 443	146·450 162·219 163·636 180·830 208·114	1,880 · 171 2,101 · 342 2,238 · 101 2,419 · 759 2,814 · 691	9,446,008 11,524,389 15,099,864 19,189,514 22,117,381	1 · 554 1 · 679 2 · 063 2 · 343 2 · 297	1 · 057 1 · 141 1 · 415 1 · 697 1 · 685	2·148 2·178 2·639 3·078 3·120

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

### (b) ELECTRICITY SUPPLY BRANCHES - 1953 AND 1954

			Sales	kWh (Mil	Revenue						
Year Ended 30th June	Bulk	Public						Total	Po	er kWh So	ld
	Supplies	Lighting	Domestic	Industrial	Traction	Commercial	Total		Domes- tic	Indus- triał	Com- mercia
-								£	d.	d.	d.
Metropolitan (Incl. Metropolitan 1954 Bulk Supplies) 1953	803-686 695-313	16·472 15·855	423 · 685 361 · 198	437 · 035 37 I · 378	263·715 247·338	104·413 90·774	2,049 · 006 1,781 · 856	14,684,757 12,964,748	2·050 2·107	1 · 651 1 · 667	2·972 2·981
Ballarat 1954 1953		0·489 0·476	17·272 15·137	24·587 20·758	: :	8·841 8·152	51 · 189 44 · 523	522,151 463,042	2·996 3·070	I · 672 I · 687	3·368 3·324
Bendigo† 1954 1953	2·957 	0·533 0·371	21·911 13·364	21·260 13·415		7·564 4·107	54·225 31·257	617,121 336,122	2·978 2·892	2·000 1·782	4·015 3·938
Geelong 1954 1953	:::	0·675 0·633	27·310 22·643	62·552 51·511	<b></b>	10-901 9-223	101 · 438 84 · 010	904,551 764,375	2·937 2·996	1 · 511 1 · 533	3·574 3·642
astern Metropolitan 1954 1953	:::	i · 448 i · 264	101 · 881 86 · 277	28·352 23·025	i · 728 0 · 777	22·045 18·906	155·454 130·249	1,608,307 1,362,670	2·442 2·477	2·019 2·059	3 · 165 3 · 105
Gippsland 1954 (Incl. Yallourn) 1953	:::	1·085 0·940	52·887 47·562	52·547 42·669		14·414 12·714	120·933 103·885	1,153,922 1,014,072	2·476 2·540	I · 804 I · 844	3·188 3·074
1 dland  954   1953	:::	0·376 0·363	11 · 536 10 · 178	14·101 13·598	:::	4·791 4·407	30·804 28·546	334,878 307,928	3·116 3·165	I · 790 I · 781	3·580 3·537
North Eastern (Incl. N.S.W. Bulk Supplies 1954 and Kiewa) 1953	38·106 34·056	0·946 0·872	46·703 40·134	74·777 59·131	<b></b>	27·938 26·339	188·470 160·532	1,625,718 1,388,453	2·664 2·688	1 · 631	2·788 2·681
outh Western 1954 1953	 	0·484 0·454	31·096 26·574	24·385 21·665		7·207 6·208	63·172 54·901	665,976 588,104	2·593 2·678	I · 940 I · 949	4·034 4·060
Total 1954 1953	844·749 729·369	22·508 21·228	734·281 623·067	739·596 617·150	265 · 443 248 · 115	208·114 180·830	2,814·691 2,419·759	22,117,381 19,189,514	2·297 2·343	1 · 685 1 · 697	3·120 3·078

† Including Mildura acquired 1/10/53.

STATE ELECTRICITY COMMISSION OF VICTORIA STANDARD TARIFFS AS AT 1st JULY, 1954

		Residential and Commercial		Farming	Industrial	
Tiff.		Provincial City and	Country	Only Operations	Industrial Establishments	Miscellaneous
***************************************	Metropolitan	Iown. (ballarat, bendigo, Geelong and Large Towns)	(Smaller Towns and Rural Areas)	All Extra- Metropolitan Areas	All Supply Areas	
	-	2	æ	*	3	9
Residential Tariff (Domestic and Commercial Residential Premises)— Service Charge a month for each assessable room Race a kWh	1s. 3d. 1.85d. 8.0d.	1s. 8d. 2.35d. 8.0d.	1s. 10d. 2.35d. 8.0d.	. :		Tariffs for the following centres are the same as
Lighting— Block Tariff—rates a KWh (based on monthly consumption)	First 20 at 6.5d. Balance at 5.25d.	First 100 at 8.25d. Balance at 6.0d.	First 100 at 9.25d. Next 200 at 7.5d. Balance at 6.0d.		First 20 at 6.5d. Balance at 5.25d.	S. except the Redential Tariff within certain areas:—  Croydon Heathmont Klisyth
Power and Heating— Block Tariff—rates a kWh (based on monthly consumption)	First 200 at 3.5d. Next 4,800 at 2.0d. 20,000 at 1.7d. Balance at 1.5d.	First 200 at 4.0d. Next 4,800 at 2.6d. 20,000 at 1.85d. Balance at 1.86d.	First 50 at 4.4d.  Next 150 at 4.0d.  4,800 at 2.6d.  20,000 at 1.85d.  Balance at 1.8d.		First 200 at 3.5d. Next 4,800 at 2.0d. 20,000 at 1.7d. Balance at 1.65d.	Pointoose Ringwood Details of Reidental tariffs for the areas concerned and those in the Mildura area will be supplied on request.
	II p.m7 a.m.—0.825d.	10.30 p.m6.30 a.m.* 0.9d.	10 p.m6 a.m0.9d.		II p.m7 a.m.*—0.825d.	
Rental a month for each two-rate meter	5\$. 0d.	58. 0d.	5s. 0d.		5\$. 04.	
Power, Heating and Lighting— Block Tariff—rates a kWh (based on monthly consumption)	Commercial General Service First 20 at 6.5d. Next 980 at 5.2d. 1,000 at 3.5d. 20,000 at 1.7d. Blance at 1.65d. 11 p.m.—7 a.m.—0.835d.	Commercial General Service First 100 at 8.254. Next 900 at 6.04. " 4,000 at 4.04. " 20,000 at 1.854. Balance at 1.854. 10.30 p.m6.30 a.m.*—	Commercial General Service Service 100 at 9.25d.  Next 200 at 7.5d.  A,000 at 4.0d.  20,000 at 1.85d. Balance at 1.86d. 10 p.m6 a.m.—0.9d.	Farming General Service Service First 4 at 9.0d. Next 196 at 4.2d. 8alance at 1.85d. 10 p.m6 a.m.*—0.9d.	Industrial All-Purposes   First	
Rental a month for each two-rate meter	(Power and Heating only) 5s. 0d.	0.9d. (Power and Heating only) 5s. 0d.	(Power and Heating only) 5s. 0d.	54. 0d.	(See Note 2 below) 5s. 0d.	
Industrial Maximum Demand (See Note 3 below) Power, Heating and Lighting					£1 6s. 8d. a month for each kW of maximum demand plus 0.7d. a kWh (500 kW. Minimum demand charge).	
Commercial Range (Electric Cooking)—Rate a kWh	1.85d.	2.35d.	2.5d.			
Water Heating—Night Rate Tariff a kWh ∫ See Note 4 Intermediate Rate Tariff a kWh ∫ below	0.875d. 1.35d.	0.975d. 1.475d.	0.975d. 1.475d.	0.975d. 1.475d.	0.875d. 1.35d.	
Minimum Charge-a month	3s. 6d.	4\$. 0d.	48. 6d.	<del>\$</del> .0d	3s. 6d	

Notes.—I. Details regarding the application of the above tariffs are shown in the Commission's published tariff schedules, which are available on request. 2. A consumer adopting for high tension supply and for monthly payments based on the minimum mum charge of £17 14s. 2d. 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 deman clifficated or half the stipulated rate of supply, whichever is the greater. 4. The night rate water heating tariff was temporarily withdrawn in November, 1952 in respect of additional por water systems (except dairy water-heaters). At the analysis of the stransferred in rotation to the lower night-rate tariff as additional generating plant at Yallourn is brought into operation. \*Prescribed hours for these tariffs are 10.30 p.m.-6.30 a.m. in Ballarat, Bendigo and Geelong. In other extra-metropolitan areas the hours are 10 p.m.-6 a.m.

# STATE ELECTRICITY COMMISSION OF VICTORIA TRANSMISSION AND DISTRIBUTION SYSTEMS

Yallourn to Richmond	Description					uring Year June, 1954	Total at 30th June, 1954					
Yallourn to Yarawille		Des	scriptio	on								
Yallourn to Yarraville	<u></u>	OVER	HEAL	D LIN	FS					·		
Yallourn to Warragul Newport to Geology Area 66 kV. 80	Yallourn to Yarravill					132 kV.				l ì	110.0	660-0
Newport to Geleng Area   66 kV				•••	•••							483 · 0
Sugarior to Thomastown								]	•••			74.4
Elifon Area   66 kV										1		256·2 372·0
Thomatown to Bendigo 66 kV										I I		9.3
Newport to Ballarat												560.7
Kiewa No. 3 P.S. to Sugarloaf Kiewa No. 3 P.S. to Howman's Gap 66 kV. 13-0 39-0 17-0 40 Halvern Terminal Station to Dandenong 66 kV. 13-0 39-0 17-0 39 Halvern Terminal Station to Dandenong 66 kV. 13-0 39-0 17-0 39 Halvern Terminal Station to Dandenong 66 kV. 13-0 17-0 18-0 39 Halvern Terminal Station to Dandenong 66 kV. 13-0 18-0 18-0 18-0 18-0 18-0 18-0 18-0 18						66 kV.	•••	- 1				234-0
Klewa No. 3 P.S. to Howman's Gap				•••	•••				•••			174-0
Malvern Terminal Station to Dandenong   66 kV   13 0   39 0   13 0   37   17   18   18   18   18   18   18   1									•••			4!1.0
Klewa Area	Malyonn Torminal St	Howman	n's Ga	ap lanana	•••			)		20.0		12·0 39·0
Sugarloaf P.S. to Elidon		ation to		_						1		23.4
Main Metro. Transmission Lines   22 kV   0 - 8   2 - 4   245 - 0   83   148		on								1 1		3.6
Main Metro, Transmission Lines   6.6 kV.     3.7   11.0   121.4   35.7   11.0   121.4   35.7   12.1   35.7   12.1   35.7   12.1   35.7   35.	Main Metro. Transm	ission Li	nes			66 kV.	• •••					66∙
				• • • •	•••				0⋅8	2.4		831 - 7
Metropolitan		ission Li	nes	•••	•••	6.6 kV	<b>'</b>	[	•••	•••	5.9	19.5
Salarat						22 61/			2.7	11.0	121.4	356.7
Ballarat	rietropolitali	•••	•••	•••	•••							1,143.4
Ballarat												8,434
*Bendigo	Ballarat	•••			•••				53 · 2	127 · 4		1,007
**Bendigo												55.9
11 kV	<b>4D</b>											1,427 - 7
Geelong	-mendigo	•••	•••	•••	•••							1,363
Coveression   313-3   890-4   578-3   1,77												
Geelong								- 1		7- 1		1.776
Eastern Metropolitan	Geelong											580
Eastern Metropolitan	·					6.6 kV	,		2 · 4	10.6	72.7	254 - 4
Content									27 · 8	105-1		1,290-4
6.6 kV   1.0	Eastern Metrop	olitan	•••	•••	•••			)				66.
Content   Cont							,	- 1	20.1	132.9		2,085
Gippsland   66 kV   22 kV   108-1   236-0   1,494-3   3,58									90.7	363.5		4,957
22 kV	Gippsland											294.6
Low tension			•••	•••	•••			- 1	108-1	236.0		3,583
Midland						6.6 kV	<b>.</b>		•••			1.6
Scheme	Mt diam d											4,590 - 4
Low tension     23 · 2   70 · 4   400 · 6   1.26	Midiand	•••	•••	•••	•••							1,666.7
North-Eastern												1264.4
22 kV	North-Eastern								23.2			633.8
Low tension   54-6   223-5   1,001-9   3,48   66 kV   39-2   4-47-8   119-4   62   22 kV   13:3   2-8   1,542-6   3,29   49   1,645		•••	•••	•••	•••			- 1	151.0	324.6		4,690
13-3   2-8   1.542-6   3.29						Low to			54.6	223 · 5		3,484
Cable Miles   Cable Miles   Cable Miles	South-Western	•••	•••	•••	•••							628 · !
Vallourn   Color   C												3,299
Yallourn												492.7
Low tension   0 - 1	Yallourn							- 1				39.2
Kiewa   12 kV           2 · 4         8 · 8   4         8 · 8   4           8 · 8   4	•••	•••	•••	•••	•••			- 1				86.4
132 kV	Kiewa	•••	•••	•••	•••				•••	•••		7.2
Cable Miles   Cable Miles   Cable Miles										•••		43-0
1   1,20	ummary	•••	•••	•••	•••							1,143.0
Ti kV   179-4   179-4   114-1   114-1   117-1   118-												
T.2, 6.6, 4.0 kV.   Class										.,		17,474.7
Low tension   707   2,346 2   8,422   29,102     1,633 4												2,261
1,633·4												29,102 - 2
UNDERGROUND CABLES.         Cable Miles         Cable Miles           0 kV.         0.02         0.62           2 and 20 kV.         -9.91         162.99           1, 7.2, 6.6, 4.0, 3.3 and 2.2 kV.         3.38         360.14           ilot, telephone, and supervisory         -5.82         224.68           ow tension         -9.75         827.31           SUB-STATIONS.         Number         Capacity kVA         Number         Capacity kVA           witching Stations         -1         19.250         9         739.0           witching Stations         3         86,750         48         665,1           sanches—									1.633 · 4	4.495 · 3	18.372 · 9	55,947 · 8
2 and 20 kV.   -9.91   162.99   1,7.2,6.6, 4.0, 3.3 and 2.2 kV.   -9.91   162.99   3.38   360.14   160t, telephone, and supervisory   -5.82   224.68   2.58   78.88   2.58   78.88   2.58   78.88   2.58   78.88   2.58   78.88   2.58   78.88   2.58   78.88   2.58   78.88   2.58   78.88   2.58   78.88   2.58   2.58   78.88   2.58	UN	DERGE	₹OU	ND C	ABL	ES.						
2 and 20 kV.   -9.91   162.99   1,7.2, 6.6, 4.0, 3.3 and 2.2 kV.   3.38   360.14   160t, telephone, and supervisory   -5.82   224.68   78.88	0 kV							-		.02	_	. 42
1, 7.2, 6.6, 4.0, 3.3 and 2.2 kV.   3.38   360 · 14	0 1 00 11/		•••									
SUB-STATIONS.	1, 7.2, 6.6, 4.0, 3.3 and	1 2.2 kV.										
SUB-STATIONS.   Number   Capacity kVA   Nember   Capacity kVA   Nember   Capacity kVA   Nember   Capacity kVA   Nember   Capacity kVA   Number   Capacity kVA   Nember   Capacity kVA   Number   Number   Capacity kVA   Num	ilot, telephone, and s	perviso	ry						<b>-5</b>	·82		
Number   Capacity kVA   Number   Number   Number   Number   Number   Number   Number   Number   Numb	ow tension	•••	•••	•••	•••	•••	•••		2	· 58	78	· 88
Number   Capacity kVA   Number   Number   Number   Number   Number   Number   Number   Number   Numb								-		.7c	007	21
Perminal Stations		CLIB	CT A 1	rio Ni								
Metropolitan Transmission Sub-stations   3   86,750   48   665,8	erminal Stations	J D B-1	JIAI					-				Capacity kVA
ain Metropolitan Transmission Sub-stations       3       86,750       48       665, ranches—         Metropolitan       69       22,325       1,176       353, sanches—       420       22,7         Ballarat       56       2,220       420       22,7         *Bendigo       265       17,915       630       58,6         Geelong       50       6,935       392       53,6         Eastern Metropolitan       75       20,233       1,143       112,7         Gippsland       187       16,815       1,453       82,6         Midland       85       2,255       606       34,3         North-Eastern       298       16,965       2,093       122,7         South-Western       269       14,767       1,976       72,5         Yallourn       -1       -200       22       4,1         Kiewa       10       2,1		•••	•••	•••	•••			- 1	· .	17,230		18,000
Metropolitan       69       22,325       1,176       353,3         Ballarat       56       2,220       420       22,7         *Bendigo       265       17,915       630       58,6         Geelong       50       6,935       392       53,6         Eastern Metropolitan       75       20,233       1,143       112,7         Gippsland       187       16,815       1,453       82,5         Midland       85       2,255       606       34,3         North-Eastern       298       16,965       2,093       122,7         South-Western       269       14,767       1,976       72,5         Yallourn       -1       -200       22       4,1         Kiewa       10       2,1			n Sub	-station	ıs.			1		86.750		665,500
Ballarat        56       2,220       420       22,7         *Bendigo        265       17,915       630       58,8         Geelong        50       6,935       392       53,6         Eastern Metropolitan        75       20,233       1,143       112,7         Gippsland        187       16,815       1,453       82,9         Midland        85       2,255       606       34,3         North-Eastern        298       16,965       2,093       122,7         South-Western        269       14,767       1,976       72,5         Yallourn           10       2,1         Kiewa           10       2,1	ranches—							7	-	·		
*Bendigo	5 H '-	•••	•••	•••	•••	•••						353,365
Geelong        50       6,935       392       53,6         Eastern Metropolitan        75       20,233       1,143       112,7         Gippsland        187       16,815       1,453       82,9         Midland        85       2,255       606       34,3         North-Eastern        298       16,965       2,093       122,7         South-Western        269       14,767       1,976       72,5         Yallourn           10       2,1         Kiewa           10       2,1												22,770
Eastern Metropolitan	~ · ·											58,835
Gippsland       187     16,815     1,453     82,9       Midland       85     2,255     606     34,3       North-Eastern      298     16,965     2,093     122,7       South-Western      269     14,767     1,976     72,5       Yallourn          10     2,1       Kiewa           10     2,1										20,233		112,214
Midland        85     2,255     606     34,3       North-Eastern       298     16,965     2,093     122,7       South-Western       269     14,767     1,976     72,5       Yallourn          10     2,1       Kiewa          10     2,1												82,990
North-Eastern        298     16,965     2,093     122,7       South-Western        269     14,767     1,976     72,5       Yallourn          10     2,1       Kiewa          10     2,1									85			34,330
Yallourn              1        200       22       4,1         Kiewa             10       2,1	Midland		•••	•••	•••					16,965	2,093	122,772
Kiewa	Midland North-Eastern			•••	•••	•••	•••					72,570
	Midland North-Eastern South-Western	•••								200	22	4 1 5 5
1 255	Midland North-Eastern South-Western Yallourn	•••	•••						•			4,155
1,355 226,230 9,980 2,342,2	Midland North-Eastern South-Western Yallourn	•••	•••						•			2,100

<sup>\*</sup> Includes Mildura, acquired 1/10/53

### STATE ELECTRICITY COMMISSION OF VICTORIA

### COUNTRY UNDERTAKINGS ACQUIRED (85) - INCREASED DEVELOPMENT SINCE ACQUISITION

Location	Acquisition			Pri	or to Acquisit	Average Revenue per kWh Sold		
Location	Date	kWh. Sold	Revenue	kWh. Sold	Revenue	For Year Ended	1953–54	Prior to Acquisition
Metropolitan Branch			£		£		d.	d.
Verribee	10.4.24	10,058,738	102,377	61,190	2,575	30.9.23	2.44	10.10
Ballarat Branch	1.3.40	256,120	4,084	13,261	964	. 30 4 30	2.02	17.45
aylesford	31.10.40 1.10.40	1,914,306	22,502	184,853	5,091	30.6.39 31.10.40	3.83 2.82	17.45 6.61
epburn bprings /allace	17.5.40	430,399 107,886	6,062 1,232	46,002 1,320	1,701 90	30.6.40 30.6.39	3.38 2.74	8.87 16.36
Bendigo Branch								
olbinabbin ıglehawk	17 6.54 1.2.36	1,866,032	24,785	8,590 198,580	62 I 4,472	<b>3</b> 0.9.53 <b>3</b> 0.9 <b>.</b> 35	3.19	17.35 5.40
more glewood	2.9.47 3.12.46	634,242 315,674	7,707 5,272	60,000 89,400	2,188 2,614	30.6.46 30.9.46	2.92	8.75
ildura	1.10.53 19.3.51	111,908		19,385,280	265,024	30.9.53	4.01	7.02 3.28
ramid Hill	21.4.54	- 111,500	1,470	8,728 191,345	391 6,204	30.6.50 30.9 53	3.15	10.75 7.78
Vedderburn-Korong Vale	16.12.53	_	_	345,129	10,577	30.9.53	-	7.36
Eastern Metropolitan Branch andenong	1.10.23	13,413,696	124,659	77,300	4,006	30.9.23	2.23	12.44
rankston ealesville	21.2.28 1.4.33	13,503,959 2,626,308	143,828 32,144	293,000 108,910	8,859 4,196	30.9.27 30.9.31	2.56	7.25
llydale	1.4.33 1.4.25 1.8.30	3,283,266 6,606,805	30,069 69,856	39,950 120, <b>0</b> 00	1,816	30.9.24	2.94 2.20	9.24 10.91
Ingwood and Croydon	1.4.25	18,954,615	182,971	181,600 47,500*	4,634 4,393	30.9.28 30.9.24	2.54 2.32	9.26 5.81
orrento and Portsea Varburton	1.10,27 1.7,44	2,973,912 1,232,107	33,648 13,709	47,500* !12,555	2,440 3,485	30.9.27 30.6.44	2.72 2.67	12.33* 7.43
Gippsland Branch								
urnsdale	1.4.27 31.3.54	4,323,948	49,139	100,272 280,601	2,948 8,736	30.6.23 30.9.53	2.73	7.06 7.47
rouin arfield	3.10.24 1.8.29	2,701,426 344,933	25,360 4,286	19,500 8,864	743 465	30.9.21 30.12.27	2.25 2.98	9.15
eyfield	15.9.24 1.10.34	1,895,540 340,018	4,286 19,318 4,903	20,000* 4,000*	950*	30.6.24	2.45	12.59 11.40*
oo-wee-rup	1.8.35	931,778	9,450	17,481	200 686	30.6.34 9.8.33	3.46 2.43	12.00* 9.42
orumburra ongatha	1.12.24 15.2.24	3,461,734 2,842,696	30,196 26,471	85, <b>000</b> 50,640	3,427 2,012	30.9.23 30.6.23	2.09 2.23	9.68 9.53
affra orwell	1.9.24 1.4.26	6,103,713 18,202,630	45,937 137,113	62, <b>000</b> 52,062	2,651 1,772	30.9.22 30.9.25	1.81	10.26 8.17
eerim South—Noojee le	15.1.35	1,594,479 6,090,028	14,981 64,880	59,550 114,155	1,193 3,687	30.6.33	2.25	4.81
oraFoster	1.5.38 23.12.37 1.12.30 13.8.38	1,709,092	16,885	116,330	2,348	30.6.24 30.6.36	2.56 2.37	7.75 4.84
arragul	1.12.30	194,432 6,358,643	2,150 67,283	5,000* 150,000*	312* 4,830	23.12.37 30.11.30	2.65 2.54	14.98 <b>•</b> 7.73 <b>•</b>
elshpool	31.7.46	169,914 1,741,870	2,103 18,463	5,280* 264,000*	172* 6,422	13.8.38 31.1.46	2.97 2.54	7.82* 5.84*
Midland Branch					·			
oca cchus Marsh	1.8.40 2.6.41	581,761 2,343,930	7,504 26,807	46,410 253,913	1,922 4,225	30.6.40 30.9.40	3.10 2.74	9.94 3.99
stlemaine	31.12.29 1.4.38	4,845,835 321,768	54,336 4,922	175,904	7,130 1,188	31.12.28	2.69	9.73
isborne	1.10.28	477,812	5,942	32,667 17,000	1,074	30.9.37 30.9.27	3.67 2.98	8.73 15.16
yneton aryborough	1.10.29 1.10.37	1,796,431 4,832,437	22,057 54,681	143,340 421,013	5,433 10,215	30.9.27 30.9.37	2.95 2.72	9.09 5.82
entham	1.5.26 8.5.39	972,515 289,614	12,703 3,777	58,501 21,000*	2,490 989	30.9.24 30.9.38	3.13 3.13	10.21
Voodend	1.8.29	851,196	10,738	51,000	2,555	30.9.27	3.03	12.02
North Eastern Branch lexandra	11.4,27	1,331,931	15,765	64,000*	1,875	30.9.26	2.84	7.00*
eechworth	2.9.46 1.5.26	1,555,803 4,758,004	18,568	182,661	6,982	30.9.46	2.86	9.17
right	1.12.41	757,086	53,532 8,283	70,800 49,200	3,373 1,801	30.9.24 13.10.41	2.70 2.63	11.43 8.79
niltern	31.8.48 1.9.26	5,473,790 240,449	35,181 3,751	75,089 13,475 19,500	2,678 730	31.8.48 31.8.26	1.54 3.74 2.57	8.56 13.00
obram uroa	1.10.28 20.3.28	1,663,052 1,378,865	17,782 17,376	46.618	1,416 1,782	30.9.27	3.02	17.43 9.17
rabram ansfield	1.12.26 1.6.28	3,476,089 1,717,550	32,016 20,020	92,312 25,000	3,462 1,341	4.7.25 30.9.27	2.21 2.80	9.00
ooroopna	1.10.26	2,721,613 368,177	24,372 5,014	40.000	1.457	30.9.25	2.15	8.74
yrtleford	1.12.40	1,143,715	13,622	114,080 59,260 169,213	2,547 2,089	30.9.45 30.6.40 30.9.53	3.27 2.86	5.36 8.46
agambie athalia and Numurkah	17.5.54	2,390,847	28,090	96,763	4,836 3,619	30.9.31	2.82	6.86 8.97
ochester otherglen	1.8.35 15.10.26	1,587,39 <b>5</b> 990,668	17,722 12,556	191,310 28,392	4,223 1,377	31.7.35 30.9.24	2.68 3.04	5.30 11.64
ymour epparton	2.10.44 1.1.25	6,613,526 9,655,530	69,382 104,978	1,004,623	14,019 4,625	30.9.44 30.6.24	2.52 2.61	3.35 6.79
anhope	14.6.38	1,731,475 717,104	16,642 8,122	5,150* 118,033	341 3,119	14.6.38 30.9.40	2.31 2.72	15.89* 6.34
tura	1.11.26	1,621,139	17,796	40,000	1,710	30.6.25	2.63	10.26
/ahgunyah	1.2.26	223,661 194,745	3,344 2,361	14,650* 7,233	1,160 263	30.9.35 30.9.22	3.59 2.91	19.00* 8.73
angaratta odonga	12.3.27	11,775,345 2,555,943	111,801 29,185	151,600 64,500*	4,788 3,000*	30.9.25 30.6.33	2.28 2.74	7.58 11.16*
rrawonga	1.8.25 1.5.45	15,687,618 656,805	97,768 8,174	47,000 163,550	2,149 3,134	30.9.24 30.9.44	1.50 2.99	10.97
South Western Branch		,,,,,,,	3,	5,550	-,,,,,,	55,2,7		
mperdown	1.1.24	2,643,584	28,503	97,664	4,122	30.9.23	2.59	10.13
olac oleraine	1.9.23 1.7.46	6,273,973 603,085	68,956 8,409	99,000 100,216	2,673 2,435	30.9.23 31.12.44	2.64 3.35	6.48 5.83
amilton oroit	1.7.46 1.12.28	5,517,786 606,280	67,523 7,591	1,440,664 50,000	19,422 2,319	31.12.44 30.9.28	2.94 3.00	3.24 11.13
orne ortlake	15.12.36 16.5.24	1,473,850 662,052	16,802 8,349	24,000 35,306	1,658 1,626	30.9.36 30.9.23	2.74 3.03	16.58
erang	4.3.24	1,910,626	21,499	78,839	3,439	30.9.23	2.70	10.47
		257,289,307	£2,569,595	29,253,077	£538,706		2.40	4.42

,	٠,	*Approxin	nate only.				
After Acquisition		ARISON OF kWh. Sold	TOTAL Reve	302 0	Average Revenue per kWh Sold 2.40d.		
Prior to Acquisition		29,253,077		8,706		4.42d.	
Increase in Sales and Revenue		228,036,230	2,03	0,889	 Decrease	2.02d.=45.7%	

