

MEMBERS OF THE
Electricity Supply Commission.

DR. HENDRIK JOHANNES VAN DER BIJL (Chairman).

ALBERT MICHAEL JACOBS.

ROBERT BURNS WATERSTON.

WILLIAM PLOWMAN MOYESE HENDERSON.

CONTENTS.

	Page
Introductory	3
Output and Sales of Electricity	3
Financial	4
General	5
Municipal Electricity Supply Schemes	5
Annexure "A":	
Auditors' Report	7
Balance Sheet	10—11
Expenditure on Capital Account	12—13
Details of Investments of Redemption Fund	14—15
Redemption Fund Account	17
Reserve Fund Account	18—19
Revenue Accounts:	
Natal Central Undertaking	20—21
Witbank Undertaking	22—23
Cape Town Undertaking	24—25
Statement of Pooled Costs—Cape Town	26—27
Durban Undertaking	28—29
Sabie Undertaking	30—31
Klip Generating Station Undertaking	32—33
Rand Extension Undertaking	34—35
Annexure "B":	
Statement showing the price or rent of land or rights or interests in or over land or other property acquired or hired by the Commission during the year 1941	37

Electricity Supply Commission.

Escom House,
Kissik Street,
Johannesburg,

25th June, 1942.

To the Honourable
The Minister of Commerce and Industries,
Pretoria.

SIR,

In conformity with the provisions of Section 14 of the Electricity Act, No. 42 of 1922, the Commission has the honour to present its Nineteenth Annual Report, covering its operations for the year ended 31st December, 1941.

This report is being confined to the minimum statutory requirements for reasons of policy during the war and in view of the need for economy in the use of paper. The activities of the Commission are, therefore, being reviewed much more briefly on this occasion than heretofore.

OUTPUT AND SALES OF ELECTRICITY.

The output of electricity from the Commission's generating stations continued to show an increase, notwithstanding the Commission's war-time policy of restricting load development as far as possible to essential purposes. The total number of units generated at all stations was 4,374,291,554 for 1941, thus establishing a new record and exceeding the previous year's total by 4·75 per cent. This is, however, less than the increase in 1940, when the output was 11·01 per cent. greater than in 1939.

Sales of electricity generated in the Commission's own power stations and purchased from outside sources for supply to the Commission's consumers increased by 4·52 per cent. to a total of 4,254,024,051 units for the year 1941, as compared with an increase of 13·89 per cent. in the sales for 1940.

Increases in the sales to the various classes of consumers were reflected as follows :—

Class of Supply.				1941.	Percentage increase over 1940.
Bulk Supplies:					
Mining, etc.	...	...	...	3,270,395,982	2·76
Municipal	...	...	...	312,287,898	10·35
Direct Supplies for:					
Traction	...	...	...	417,732,413	5·76
Mining	...	...	...	49,408,184	6·24
Industrial	...	...	...	184,739,569	26·14
Domestic and Street Lighting			...	19,460,005	16·21
				<hr/> 4,254,024,051 <hr/>	4·52

FINANCIAL.

At the date of the balance sheet the Commission's loan capital totalled £21,750,000, all of which has been publicly subscribed in South Africa.

A loan of £2,000,000, raised by the Commission on 11th July, 1941, bearing interest at $3\frac{1}{4}$ per cent. at an issue price of £99, and redeemable on 30th September, 1961-66, was oversubscribed within an hour of the opening of subscription lists.

The amount in the Redemption Fund at 31st December, 1941, stood at £3,500,745, and the Reserve Fund at that date amounted to £1,733,421. The book value of securities, representing investments in Government, Municipal, Rand Water Board, Electricity Supply Commission Stocks, First Mortgages on Freehold Properties, and debentures guaranteed by the Union Government, held by the Commission on behalf of the various funds at 31st December, 1941, was £5,525,542, the nominal value being £5,563,790. The market value of these investments at that date was £5,874,554.

Expenditure on Capital Account during the year amounted to £1,073,202, which brought the total capital expenditure, at 31st December, 1941, to £20,404,034. Capital expenditure on major works under construction and on minor extensions will bring the total expenditure on Capital Account to approximately £24,250,000.

Revenue, production costs and other important figures relating to the operation of the Commission's Undertakings during the year 1941, with the comparative figures for 1940, are as follows:—

	1941.	1940.	Difference.
Total Revenue	£3,008,674	£2,861,220	+ 5·15%
Total Production Costs (including interest, redemption and reserve fund charges)	£3,004,520	£2,858,931	+ 5·09%
Excess of Revenue over Production Costs	£4,154	£2,289	+ £1,865
Average price per unit sold	0·1651d.	0·1642d.	+ 0·56%
Average revenue per unit sold (including Sundry Revenue)	0·1697d.	0·1687d.	+ 0·62%
Average cost per unit sold	0·1695d.	0·1685d.	+ 0·56%
Total cost of coal consumed, including railage	£831,652	£776,164	+ 7·15%
Railage on coal consumed	£252,692	£219,164	+ 15·30%
Coal consumed (in tons of 2,000 lbs.)	3,397,836	3,308,793	+ 2·69%

During the past six years the average price per unit of electricity sold by the Commission has been reduced from 0·266d. in 1935 to 0·165d. in 1941.

The small surplus of £4,154 on all the Commission's operations during the year, which represents 0·14 per cent. of the total revenue, is a measure of the success achieved in carrying out the general principle laid down in the Electricity Act that the Commission shall, as far as practicable, operate its undertakings neither at a profit nor at a loss.

GENERAL.

The difficulty and uncertainty of obtaining plant and materials from overseas make it more necessary than ever to maintain the Commission's generating stations at the highest state of efficiency in order to continue to meet the electricity requirements of national essential services. This is, however, becoming increasingly difficult under present conditions and restrictions, and special praise is due to the Commission's employees, whose successful efforts, though unspectacular, are of vital importance on the Home Front.

MUNICIPAL ELECTRICITY SUPPLY SCHEMES.

During the year the Commission submitted fifteen reports, in terms of Section 38 of the Electricity Act, to the Administrators of the various provinces, on the proposals of Urban Local Authorities to establish electricity undertakings or to enlarge existing undertakings. Up to 31st December, 1941, 474 reports on municipal electricity supply schemes, of which 168 were in respect of new schemes, had been submitted by the Commission.

In addition, the Commission had at that date issued 240 supplementary reports on tenders.

ANNEXURES.

The Commission submits for the year 1941, with this Report:—

ANNEXURE “ A.”

The Report of the Auditors.

Balance Sheet.

Schedule of Expenditure on Capital Account.

Statement showing the Investments of the Redemption Fund.

Account No. 1.—Redemption Fund Account.

Account No. 2.—Reserve Fund Account.

Revenue and Expenditure Accounts in respect of:

Account No. 3.—Natal Central Undertaking.

Account No. 4.—Witbank Undertaking.

Account No. 5.—Cape Town Undertaking.

Statement of Pooled Costs—Cape Town.

Account No. 6.—Durban Undertaking.

Account No. 7.—Sabie Undertaking.

Account No. 8.—Klip Generating Station Undertaking.

Account No. 9.—Rand Extension Undertaking.

ANNEXURE " B. "

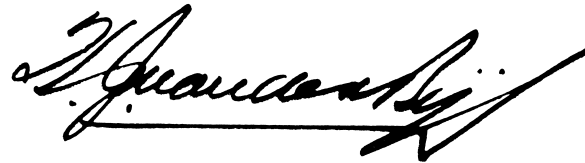
Statement showing the price or rent of land or rights or interests in or over land or other property acquired or hired by the Commission during the year 1941.

Other statements relating to power station plant and statistics, usually submitted with the Commission's reports, are also being omitted this year.

I have the honour to be

Sir,

Your obedient servant,

A handwritten signature in black ink, appearing to read 'H. J. van der Bijl', written in a cursive style. The signature is positioned above a solid horizontal line.

H. J. VAN DER BIJL,
CHAIRMAN

ANNEXURE " A. "

THE REPORT OF THE AUDITORS.

Johannesburg.

27th May, 1942.

The Chairman and Members,
Electricity Supply Commission,
Johannesburg.

GENTLEMEN,

We have completed the audit of the books and accounts of the Commission for the year ended 31st December, 1941.

REDEMPTION FUND.

In the course of our audit we have investigated the position of the Redemption Fund established by the Commission in terms of the Schedule to the Electricity Act to provide for the redemption of the securities issued by the Commission.

We find that in the aggregate the amount in the Fund at 31st December, 1941, is materially in excess of the sum required to provide for the redemption of the respective loans over the maximum periods laid down in the terms of issue. This excess is due to various reasons, the chief one being that the Commission has in some cases caused provision for redemption to be made to redeem the loans over a shorter period than the maximum period prescribed. The reasons which have caused the Commission to provide this excess appear to us to be justifiable and sound.

In the case of Loans Nos. 10 and 11, which were issued in December, 1940, and July, 1941, respectively, the Commission has not yet applied to the Minister to fix the dates from which redemption of these loans shall commence in terms of Clause 16 (2) of the Schedule to the Electricity Act, 1922. This is due to the fact that owing to war conditions portions of the plant for which these loans were raised are not yet in commercial operation. For other portions which have come into commercial operation appropriate provision has been made, in anticipation, for the redemption of the loan moneys utilised to meet such expenditure.

HEAD OFFICE ADMINISTRATION, ENGINEERING AND GENERAL EXPENSES, INCLUDING PUBLICITY.

The gross amount of this expenditure is less than the corresponding figure for the previous year. It includes, *inter alia*, (1) Cost of the publicity department, including the publication of the Escom Magazine; (2) cost of operating Escom House, less rents received; and (3) certain expenditure in connection with the London Office.

Against the total amount has been set off or credited:—

- (1) Fees accruing to the Commission in connection with the establishment of the Rand Extension and Vaal Undertakings in terms of agreements with The Victoria Falls and Transvaal Power Company, Limited.
- (2) Other amounts transferred to cost of capital works at Undertakings for services of Head Office Staff.
- (3) Fees for Reporting on Power Schemes of Local Authorities.
- (4) Amounts chargeable to Revenue Accounts under other headings.

The amount remaining has been charged against the Revenue Accounts of all the Undertakings in commercial operation. In the case of the Klip, Rand Extension and Witbank (Power Station) Undertakings, the amount is determined by agreement with The Victoria Falls and Transvaal Power Company, Limited. The expenditure charged to the other Undertakings has been apportioned by the Commission. We have no reason to disagree with the allocation so made.

The amount so apportioned is greater than in the case of the previous year. This is due to the fact that fees charged to Undertakings in respect of Capital Works in terms of agreements with The Victoria Falls and Transvaal Power Company, Limited, are materially less than they were in 1940.

KLIP UNDERTAKING.

Following previous practice, we have accepted the accounts rendered by The Victoria Falls and Transvaal Power Company, Limited, which Company, in terms of agreement with the Commission, operates the station and is the sole consumer on a cost basis. The Capital charges made by the Commission have been verified by us. The resulting figures have been summarised in the Klip Revenue Account.

RAND EXTENSION UNDERTAKING.

In terms of agreement between The Victoria Falls and Transvaal Power Company, Limited, and the Commission, the Company is the sole user of the Undertaking under cession of the licence and operates and maintains the same at its own cost. The expenditure of the Commission in connection with the Undertaking (including Capital Charges) is recovered from the Company, and the figures relating thereto are shown in the Revenue Account of the Undertaking.

PENSION FUND.

The Commission having agreed to provide additional benefits for its European employees under this Fund, it decided to increase, with retrospective effect, the amount of the Fund to cover the additional commitment created thereby. This involved the provision of a sum of £21,800 in respect of the period prior to 1941. Of this sum £1,810 has been charged against the Revenue Accounts for the year of the Undertakings concerned. The balance, including the relative amount applicable to the Head Office Staff, has also been charged against the Undertakings and is shown in the lower section of the respective Revenue Accounts.

GENERAL.

As the result of our audit of the books and accounts of the Commission for the year 1941, and, subject to the foregoing remarks, in terms of Clause 13 (4) of the Electricity Act, 1922, we certify as follows:—

- (a) We have found the Accounts of the Commission to be in order.
- (b) The Accounts issued present a true and correct view of the financial position of the Commission and of its transactions and of the result of trading.
- (c) Due provision has been made for the redemption and repayment of moneys borrowed.
- (d) As formerly, the Land and Rights, Building and Civil Works and Machinery and Plant are set out in the Balance Sheet as on a cost basis. This expenditure will be amortised over a period not exceeding the currency of the loans by the operation of the Redemption Fund.

The value of the other assets of the Commission is correctly stated.

- (e) Sums fixed by the Commission have been set aside to the Reserve Fund under Section 9 as prescribed.
- (f) All our requirements and recommendations as Auditors have been complied with and carried out.

Yours faithfully,

B. HALSEY.

ALEX. AIKEN & CARTER.

Electricity Supply
Incorporated under the
BALANCE SHEET at

Loan Capital		£21,750,000	0	0
Loan No. 1: Government of the Union of South Africa	£3,000,000		0	0
Loan No. 2: Government of the Union of South Africa	5,000,000		0	0
	8,000,000		0	0
<i>Less</i> —Repaid during 1933 and 1934	8,000,000		0	0

Local Registered Stocks—				
Loan No. 3: 4 $\frac{3}{4}$ per cent., 1953/63	500,000		0	0
Loan No. 4: 4 $\frac{1}{2}$ per cent., 1953	2,500,000		0	0
Loan No. 5: 3 $\frac{3}{4}$ per cent., 1954/64	6,750,000		0	0
Loan No. 6: 3 $\frac{1}{2}$ per cent., 1959/64	2,500,000		0	0
Loan No. 7: 3 $\frac{1}{4}$ per cent., 1956/66	2,000,000		0	0
Loan No. 8: 3 $\frac{1}{2}$ per cent., 1957/67	2,000,000		0	0
Loan No. 9: 3 $\frac{3}{4}$ per cent., 1959/64	2,000,000		0	0
Loan No. 10: 3 $\frac{3}{4}$ per cent., 1960/65	1,500,000		0	0
Loan No. 11: 3 $\frac{1}{4}$ per cent., 1961/66	2,000,000		0	0

Interest Accrued on Loan Capital		108,427	7	4
Sundry Loans and Amounts Outstanding for Rights Acquired		142,300	1	11
Umkomaas Town Board	8,380		0	0
Volksrust Municipality	21,994		19	11
Rand Water Board	103,313		4	9
Caledon Municipality	8,611		17	3

Sundry Creditors and Credit Balances		300,092	2	7
Pension Fund		174,300	15	0
Redemption Fund (as per Account No. 1)		3,500,744	10	3
Sinking Fund (Umkomaas Town Board Loans)		2,214	3	11
Sundry Loans Repaid		31,504	6	2
Reserve Fund (as per Account No. 2)		1,733,421	0	7
Balance on Revenue Accounts		83,657	12	6
(As per Accounts Nos. 3 to 7)				
Natal Central Undertaking	28,378		8	2
Witbank Undertaking	33,625		6	8
Cape Town Undertaking	6,158		19	3
Durban Undertaking	15,439		13	8
Sabie Undertaking	55		4	9

		£27,826,662	0	3

NOTE.—In addition to the liabilities shown above, the Commission is committed to the extent of approximately £3,830,700 for expenditure on Capital Account and £56,550 chargeable against Reserve Fund.

Johannesburg,
23rd April, 1942.

H. J. VAN DER BIJL, Chairman.
J. VAN NIEKERK, Chief Accountant.

Commission.

Electricity Act, 1922.

31st DECEMBER, 1941.

Expenditure on Capital Account				£20,404,034	1	8
(As per Schedule attached)						
Land and Rights	£295,178		16	1		
Buildings and Civil Works	5,663,902		3	11		
Machinery and Plant	14,444,953		1	8		
		
Movable Plant and Equipment (less depreciation)					82,795	13
Workshop Equipment, Instruments, Tools and Loose Plant	33,980		10	5		
Transportation Equipment	7,213		18	4		
Furniture, Fixtures and Fittings	41,601		4	4		
		
Stores and Materials					249,033	16
Sundry Debtors and Debit Balances					253,453	7
Secured Advances at Call and Short Notice					630,000	0
Cash on Current Account					681,802	19
Investment of Pension Fund					169,449	16
Amount invested in Municipal, Rand Water Board and Electricity Supply Commission Stocks and First Mortgages on Freehold Properties	168,597		12	7		
Interest Accrued	852		3	6		
		
Investment of Redemption Fund					3,582,458	13
(As per Statement attached)						
Investment of Sinking Fund					2,416	15
Amount invested in Municipal and Electricity Supply Commission Stocks	2,404		0	0		
Interest Accrued	12		15	1		
		
Investment of Reserve Fund					1,771,216	18
Amount invested in Stocks and Securities of the Government of the Union of South Africa, Municipalities and Electricity Supply Commission and Debentures guaranteed by the Government of the Union of South Africa	1,760,674		5	0		
Interest Accrued	10,542		13	6		
		
	...		...	...	£27,826,662	0
					3	3

Referred to in our Report of 27th May, 1942.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply

SCHEDULE OF EXPENDITURE ON CAPITAL

Expenditure in connection with Electricity Undertakings.	Total to 31st December, 1940.	Year ended 31st December, 1941.	Total to 31st December, 1941.
NATAL CENTRAL UNDERTAKING:			
Land and Rights	£24,196 4 10	£299 6 2	£24,495 11 0
Buildings and Civil Works	776,072 12 11	18,519 16 7	794,592 9 6
Machinery and Plant	3,443,884 18 4	43,249 6 9	3,487,134 5 1
	£4,244,153 16 1	£62,068 9 6	£4,306,222 5 7
WITBANK UNDERTAKING:			
Land and Rights	£10,237 9 0	£68 7 2	£10,305 16 2
Buildings and Civil Works	605,904 18 11	10,523 1 7	616,428 0 6
Machinery and Plant	1,950,583 17 2	23,014 13 7	1,973,598 10 9
	£2,566,726 5 1	£33,606 2 4	£2,600,332 7 5
CAPE TOWN UNDERTAKING:			
Land and Rights	£25,780 13 8	£1,359 14 4	£27,140 8 0
Buildings and Civil Works	951,373 6 2	12,659 10 6	964,032 16 8
Machinery and Plant	1,752,521 0 6	98,523 18 2	1,851,044 18 8
	£2,729,675 0 4	£112,543 3 0	£2,842,218 3 4
DURBAN UNDERTAKING:			
Land and Rights	£31,261 3 2	Cr. £85 4 10	£31,175 18 4
Buildings and Civil Works	432,028 19 0	156,510 4 0	588,539 3 0
Machinery and Plant	1,183,861 10 7	35,838 19 7	1,219,700 10 2
	£1,647,151 12 9	£192,263 18 9	£1,839,415 11 6
SABIE UNDERTAKING:			
Land and Rights	£510 0 0	—	£510 0 0
Buildings and Civil Works	60,464 18 5	—	60,464 18 5
Machinery and Plant	35,169 14 10	—	35,169 14 10
	£96,144 13 3	—	£96,144 13 3

Johannesburg,
23rd April, 1942.

Commission.

ACCOUNT TO 31st DECEMBER, 1941.

Expenditure in connection with Electricity Undertakings.	Total to 31st December, 1940.	Year ended 31st December, 1941.	Total to 31st December, 1941.
KLIP GENERATING STATION UNDERTAKING:			
Land and Rights	£127,993 12 9	—	£127,993 12 9
Buildings and Civil Works	1,617,058 8 11	£11,785 14 5	1,628,844 3 4
Machinery and Plant	4,606,117 2 11	84,378 15 11	4,690,495 18 10
	£6,351,169 4 7	£96,164 10 4	£6,447,333 14 11
RAND EXTENSION UNDERTAKING:			
Land and Rights	£9,935 4 8	£313 13 0	£10,248 17 8
Buildings and Civil Works	9,771 14 7	3,134 13 4	12,906 7 11
Machinery and Plant	734,977 18 1	48,098 17 0	783,076 15 1
	£754,684 17 4	£51,547 3 4	£806,232 0 8
VAAL GENERATING STATION UNDERTAKING:			
Land and Rights	£3,681 8 8	£12 0 6	£3,723 9 2
Buildings and Civil Works	404,653 6 4	261,545 15 7	666,199 1 11
Machinery and Plant	141,327 13 7	263,404 14 8	404,732 8 3
	£549,662 8 7	£524,992 10 9	£1,074,654 19 4
ESCOM HOUSE:			
Land	£59,585 3 0	—	£59,585 3 0
Building and Equipment	331,879 2 0	£16 0 8	331,895 2 8
	£391,464 5 0	£16 0 8	£391,480 5 8
SUMMARY:			
Land and Rights	£293,180 19 9	£1,997 16 4	£295,178 16 1
Buildings and Civil Works	5,189,207 7 3	474,694 16 8	5,663,902 3 11
Machinery and Plant	13,848,443 16 0	596,509 5 8	14,444,953 1 8
	£19,330,832 3 0	£1,073,201 18 8	£20,404,034 1 8

J. VAN NIEKERK, Chief Accountant.

Electricity Supply Commission.

Statement showing details of Investments of the Redemption Fund as at 31st December, 1941.

	Nominal Amount.	Totals.	Loan No. 3. £500,000 4½% Local Registered Stock, 1953/63.	Loan No. 4. £2,500,000 4½% Local Registered Stock, 1953.	Loan No. 5. £6,750,000 3¼% Local Registered Stock, 1954/64.	Loan No. 6. £2,500,000 3¼% Local Registered Stock, 1959/64.	Loan No. 7. £2,000,000 3¼% Local Registered Stock, 1956/66.	Loan No. 8. £2,000,000 3¼% Local Registered Stock, 1957/67.	Loan No. 9. £2,000,000 3¼% Local Registered Stock, 1959/64.	Loan No. 10. £1,500,000 3¼% Local Registered Stock, 1960/65.	Loan No. 11. £2,000,000 3¼% Local Registered Stock, 1961/66.
Electricity Supply Commission Local Registered Stocks:											
4¼ per cent., 1953/63	£104,600 0 0	£105,342 7 8	£39,892 7 8	—	£65,450 0 0	—	—	—	—	—	—
4½ per cent., 1953	237,293 0 0	237,293 0 0	—	£232,793 0 0	—	£4,500 0 0	—	—	—	—	—
3¼ per cent., 1954/64	646,463 0 0	646,297 3 10	10,000 0 0	—	561,863 0 0	53,721 15 9	£17,000 0 0	£3,518 13 3	—	£193 14 10	—
3½ per cent., 1959/64	43,010 0 0	42,228 5 8	—	—	—	42,228 5 8	—	—	—	—	—
3¼ per cent., 1956/66	332,900 0 0	321,753 15 2	16,490 0 0	92,767 3 9	143,560 0 0	19,400 0 0	49,536 11 5	—	—	—	—
3½ per cent., 1957/67	309,400 0 0	300,556 4 9	24,287 10 0	85,565 5 0	77,628 10 0	60,043 0 0	21,922 0 0	30,037 9 9	£1,072 10 0	—	—
3¼ per cent., 1959/64	515,900 0 0	504,843 17 11	19,482 19 9	90,028 0 2	180,286 8 3	62,540 7 8	55,274 6 4	45,785 0 4	51,446 15 5	—	—
3¼ per cent., 1960/65	439,000 0 0	430,220 0 0	17,640 0 0	60,270 0 0	140,630 0 0	72,030 0 0	48,020 0 0	52,430 0 0	33,810 0 0	5,390 0 0	—
3¼ per cent., 1961/66	496,000 0 0	486,080 0 0	23,520 0 0	96,040 0 0	136,220 0 0	80,360 0 0	45,080 0 0	56,840 0 0	30,380 0 0	16,660 0 0	£980 0 0
Union of South Africa Local Registered Stocks:											
3¼ per cent., 1948/58	2,725 0 0	2,725 0 0	—	—	2,725 0 0	—	—	—	—	—	—
3¼ per cent., 1950	20,200 0 0	20,200 0 0	—	17,000 0 0	3,200 0 0	—	—	—	—	—	—
4½ per cent., 1953	356,265 0 0	356,265 0 0	—	356,265 0 0	—	—	—	—	—	—	—
3¼ per cent., 1953	5,000 0 0	5,000 0 0	—	—	5,000 0 0	—	—	—	—	—	—
3½ per cent., 1955/65	2,300 0 0	2,300 0 0	—	—	2,300 0 0	—	—	—	—	—	—
3 per cent., 1956/61	40,000 0 0	40,000 0 0	—	10,000 0 0	10,000 0 0	5,000 0 0	5,000 0 0	5,000 0 0	5,000 0 0	—	—
South African Iron and Steel Industrial Corporation, Limited, 5 per cent. Guaranteed First Mortgage Registered Debentures, 1946/71 ...	61,200 0 0	61,175 0 0	—	51,200 0 0	9,975 0 0	—	—	—	—	—	—
	£3,612,256 0 0	£3,562,279 15 0	£151,312 17 5	£1,091,928 8 11	£1,338,837 18 3	£399,823 9 1	£241,832 17 9	£193,611 3 4	£121,709 5 5	£22,243 14 10	£980 0 0
Interest Accrued	—	20,178 18 2	794 9 9	4,968 11 11	8,515 6 6	2,139 10 5	1,618 9 0	1,116 13 8	867 6 10	150 14 11	7 15 2
	£3,612,256 0 0	£3,582,458 13 2	£152,107 7 2	£1,096,897 0 10	£1,347,353 4 9	£401,962 19 6	£243,451 6 9	£194,727 17 0	£122,576 12 3	£22,394 9 9	£987 15 2

Johannesburg,
23rd April, 1942.

J. VAN NIEKERK, Chief Accountant.

Electricity Supply Commission.

Redemption Fund Account for the Year ended 31st December, 1941.

	Loan No. 3. £500,000 14%, Local Registered Stock, 1953-63.	Loan No. 4. £2,500,000 14%, Local Registered Stock, 1953.	Loan No. 5. £6,750,000 34%, Local Registered Stock, 1954-61.	Loan No. 6. £2,500,000 34%, Local Registered Stock, 1959-61.	Loan No. 7. £2,000,000 34%, Local Registered Stock, 1956-66.	Loan No. 8. £2,000,000 34%, Local Registered Stock, 1957-67.	Loan No. 9. 2,000,000 34%, Local Registered Stock, 1959-64.	Loan No. 10. £1,500,000 34%, Local Registered Stock, 1960-65.	Loan No. 11. £2,000,000 34%, Local Registered Stock, 1961-66.	Totals.
Cr.										
By Balance at 31st December, 1940, brought forward—										
Natal Central Undertaking	£115 7 0	£22,462 11 6	£525,840 18 5	—	£11,016 16 0	£3,444 5 9	£1,975 2 9	£725 12 5	—	£568,910 16 10
Witbank Undertaking	791 1 8	616,477 0 10	233,515 17 7	—	15,960 17 11	5,370 7 8	981 3 10	577 14 11	—	873,677 4 5
Cape Town Undertaking	88,937 16 11	13,874 5 2	267,101 5 8	—	3,829 7 7	2,913 18 3	8,545 13 9	524 16 6	—	115,727 3 10
Durban Undertaking	38,601 12 0	215,215 17 1	83,683 15 4	—	1,255 4 10	17,979 9 2	2,126 7 3	272 15 4	—	389,135 1 0
Sabie Undertaking	—	42,086 8 0	13,810 15 11	—	—	—	—	—	—	55,897 3 11
Klip Generating Station Undertaking	—	—	—	£286,861 4 2	117,269 5 4	81,151 8 1	42,848 5 7	3,041 18 7	—	531,172 4 9
Rand Extension Undertaking	—	—	—	28,585 9 5	5,756 10 6	17,273 2 8	6,815 2 4	57 12 2	—	58,487 17 1
Head Office	—	1,863 8 8	11,532 14 9	—	23,401 6 4	—	122 9 11	27 1 9	—	36,947 4 5
	£128,778 17 7	£971,979 14 3	£1,135,485 7 8	£315,446 13 7	£181,489 8 6	£128,132 11 7	£63,414 5 5	£5,227 11 8	—	£2,929,954 10 3
Amounts Contributed during the Year out of Revenue—										
Natal Central Undertaking	£52 4 11	£3,398 2 10	£75,057 12 0	—	£4,202 14 1	£1,465 17 0	£1,924 1 5	£1,258 16 10	£77 17 5	£87,437 6 6
Witbank Undertaking	86 14 9	37,712 13 9	17,857 2 9	—	4,622 12 4	2,595 18 3	932 18 3	1,217 11 4	12 14 2	65,038 5 7
Cape Town Undertaking	11,195 11 2	6,472 2 9	37,121 9 11	—	1,118 4 8	1,399 9 1	9,086 4 1	2,647 9 4	113 9 5	69,154 0 5
Durban Undertaking	4,349 12 0	19,881 11 9	7,805 15 10	—	441 10 8	7,876 18 5	2,297 14 3	2,917 11 1	28 6 0	45,599 0 0
Sabie Undertaking	—	2,610 16 8	870 5 7	—	—	—	—	—	—	3,481 2 3
Klip Generating Station Undertaking	—	—	—	£58,636 13 3	29,196 10 2	23,944 14 7	33,376 4 2	6,539 3 7	—	151,693 5 9
Rand Extension Undertaking	—	—	—	5,548 6 9	1,754 11 2	7,274 12 1	4,834 9 6	120 7 7	185 18 10	19,718 5 11
Head Office	—	164 18 3	2,759 19 9	—	5,905 11 0	—	97 2 5	82 11 3	—	9,010 2 8
	£15,684 2 10	£70,240 6 0	£141,472 5 10	£64,185 0 0	£47,241 14 1	£44,557 9 5	£52,548 14 1	£14,783 11 0	£418 5 10	£451,131 9 1
Net Proceeds of Sales of Fixed Property—										
Witbank Undertaking	—	£1,531 2 4	—	—	—	—	—	—	—	£1,531 2 4
Durban Undertaking	—	35 0 0	£525 0 0	—	—	—	—	—	—	560 0 0
Head Office	—	—	5 7 6	—	—	—	—	—	—	5 7 6
	—	£1,566 2 4	£530 7 6	—	—	—	—	—	—	£2,096 9 10
Net Interest Earned on investments, after Deducting Amounts Appropriated in Reduction of Premiums on investments Purchased—										
Natal Central Undertaking	£15 18 5	£978 9 2	£20,552 5 0	—	£565 5 5	£140 12 5	£93 15 11	£33 4 4	13 5	£22,380 4 1
Witbank Undertaking	28 8 1	25,908 8 11	8,890 4 3	—	641 5 2	223 12 1	47 14 1	30 11 9	1 1	35,770 5 8
Cape Town Undertaking	3,181 17 10	1,908 4 9	10,424 4 5	—	153 18 10	121 5 1	427 9 9	42 0 6	1 0	16,259 2 2
Durban Undertaking	1,381 0 11	10,388 9 3	3,207 8 7	—	51 12 5	737 0 8	107 5 5	39 3 7	3 8	15,912 4 6
Sabie Undertaking	—	1,769 7 6	522 19 10	—	—	—	—	—	—	2,292 7 4
Klip Generating Station Undertaking	—	—	—	£11,023 13 2	4,658 18 10	3,302 11	1,974 12 8	167 9 8	—	21,127 5 5
Rand Extension Undertaking	—	—	—	1,094 3 7	231 13 3	702 5 6	306 9 5	3 4 5	18 9	2,338 11 11
Head Office	—	79 5 9	467 15 5	—	927 6 3	—	5 12 11	1 16 8	—	1,481 17 0
	£1,607 5 3	£11,032 5 1	£11,061 17 6	£12,117 16 9	£7,230 0 2	£5,227 7	£2,963 0 2	£317 10 11	£1 17 11	£117,562 4 1
Grand Total	£149,070 5 8	£1,084,818 7 11	£1,321,552 18 6	£391,749 10 4	£235,961 2 9	£177,917 8 1	£118,925 19 8	£20,328 13 7	£420 3 9	£3,500,744 10 3
Dr.										
Balance as per Balance Sheet—										
Natal Central Undertaking	£513 10 4	£26,839 6 6	£621,450 15 5	—	£18,781 15 6	£5,050 15 2	£3,993 0 1	£2,017 13 7	£78 10 10	£678,728 7 5
Witbank Undertaking	909 4 6	681,629 5 10	269,263 4 7	—	21,224 15 5	8,189 18 3	1,961 16 2	1,825 18 0	12 15 3	976,016 18 0
Cape Town Undertaking	103,315 5 11	52,251 12 8	311,617 0 0	—	5,161 11 1	1,431 12 5	18,059 7 7	3,211 6 4	113 10 5	501,140 6 5
Durban Undertaking	11,332 4 11	275,520 18 1	95,221 19 9	—	1,718 7 11	26,593 8 3	1,531 6 11	3,229 10 0	28 9 8	451,266 5 6
Sabie Undertaking	—	46,466 12 2	15,201 4 4	—	—	—	—	—	—	61,670 13 6
Klip Generating Station Undertaking	—	—	—	£356,521 10 7	151,121 11 4	108,398 13 9	78,199 2 5	9,748 11 10	—	703,992 12 11
Rand Extension Undertaking	—	—	—	35,227 19 9	7,712 11 11	25,250 0 3	11,956 1 3	181 4 2	186 17 7	80,511 17 11
Head Office	—	2,107 12 8	11,765 17 5	—	30,231 3 7	—	225 5 3	111 9 8	—	47,111 8 7
	£149,070 5 8	£1,084,813 7 11	£1,321,552 18 6	£391,749 10 4	£235,961 2 9	£177,917 8 1	£118,925 19 8	£20,328 13 7	£420 3 9	£3,500,744 10 3

J. VAN NIEKERK, Chief Accountant.

We hereby certify that we are satisfied, both as to the correctness of the Accounts and Books of the Redemption Fund and as to the Maintenance of the Fund at the amount required by the Schedule to the Electricity Act, 1922, subject to the remarks contained in our report dated 27th May, 1942.

Electricity Supply

Dr. Reserve Fund Account for the

To	Expenditure during the Year on Replacements and Betterment	£50,654 19 0
	Natal Central Undertaking	£35,999 19 1
	Witbank Undertaking	3,990 4 2
	Cape Town Undertaking	4,001 18 5
	Durban Undertaking Cr.	326 0 4
	Klip Generating Station Undertaking	6,662 9 0
	Rand Extension Undertaking	326 8 8
	<hr/>	
..	Balance as per Balance Sheet	1,733,421 0 7
	Natal Central Undertaking	569,241 19 0
	Witbank Undertaking	334,206 11 3
	Cape Town Undertaking	317,804 14 4
	Durban Undertaking	202,070 7 1
	Sabie Undertaking	12,970 10 5
	Klip Generating Station Undertaking	266,642 4 6
	Rand Extension Undertaking	30,484 14 0
	<hr/>	
	£1,784,075 19 7	
	<hr/>	

Johannesburg,
23rd April, 1942.

Commission.

Year ended 31st December, 1941. Cr.

By	Balance at 31st December, 1940, brought forward	£1,515,523 1 11
	Natal Central Undertaking	£527,630 17 2
	Witbank Undertaking	285,612 4 3
	Cape Town Undertaking	293,255 15 11
	Durban Undertaking	170,032 16 0
	Sabie Undertaking	11,882 12 6
	Klip Generating Station Undertaking	204,990 17 5
	Rand Extension Undertaking	22,117 18 8
	<hr/>	
..	Amounts set aside during the Year as per Revenue Accounts	204,864 13 2
	Natal Central Undertaking	56,000 0 0
	Witbank Undertaking	40,500 0 0
	Cape Town Undertaking	16,500 0 0
	Durban Undertaking	24,500 0 0
	Sabie Undertaking	600 0 0
	Klip Generating Station Undertaking	59,084 7 11
	Rand Extension Undertaking	7,680 5 3
	<hr/>	
..	Interest Earned on Investments	63,688 4 6
	<hr/>	
	£1,784,075 19 7	
	<hr/>	

J. VAN NIEKERK, Chief Accountant.

Electricity Supply

WITBANK

Revenue Account for the Year

Dr.		
	Generation of Electricity.	
To Operation—		
Fuel	£67,111 5 5	
Water, Oil, Waste and Stores	6,989 5 11	
Salaries and Wages	30,872 5 9	
Other Expenses	1,418 6 1	
„ Maintenance—		
Stores	11,749 18 10	
Salaries and Wages	17,162 9 2	
Other Expenses	9,996 16 11	
„ Electricity Purchased	£145,300 8 1	160,900 4 10
	Distribution of Electricity.	
„ Operation and Maintenance—		
Stores	2,566 6 4	
Salaries and Wages	5,133 15 11	
Other Expenses	514 1 0	
	8,214 3 3	
	General Expenses.	
„ Local Administration and Technical Management	11,894 19 6	
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.)	14,814 13 5	
„ Investigations and Development Expenses	57 2 6	
„ Administration, Engineering and General Expenses of Operating Party (The Victoria Falls & Transvaal Power Company, Limited)	7,000 0 0	
„ Head Office Administration and General Expenses, including Publicity	7,441 8 4	
„ Engineering Expenses	3,887 1 6	
„ Deferred Payment Scheme, including Propaganda and Showroom Expenses	45,095 5 3	198 3 6
„ Interest	359,708 4 11	
„ Redemption Fund	109,360 1 4	
„ Amount set aside to Reserve Fund	65,038 5 7	
„ Balance carried down	40,500 0 0	
	2,024 2 7	
	£576,630 14 5	
To Special contribution to Pension Fund to provide increased benefits	£1,376 7 10	
„ Balance as per Balance Sheet	33,625 6 8	
	£35,001 14 6	

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
23rd April, 1942.

Commission.

UNDERTAKING.

ended 31st December, 1941.

	Cr.
By Sales of Electricity—	
Traction Supplies	£186,000 4 10
Bulk Supplies	231,974 8 8
Industrial Supplies	143,274 17 0
Domestic and Lighting Supplies	8,496 17 10
	£569,746 8 4
„ Deferred Payment Scheme	718 15 6
„ Other Revenue	6,165 10 7
	£576,630 14 5
By Balance at 31st December, 1940, brought forward	£32,977 11 11
„ Balance brought down	2,024 2 7
	£35,001 14 6

Referred to in our Report of 27th May, 1942.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply

CAPE TOWN

Dr. Revenue Account for the Year

Generation of Electricity.			
To Proportion of Pooled Costs	£223,278	2	4
(As per attached Statement)			
„ Other Operation and Maintenance Costs	6,548	2	1
		£229,826	4 5
Distribution of Electricity.			
„ Operation and Maintenance—			
Stores	4,159	16	2
Salaries and Wages	19,406	10	9
Other Expenses	6,195	2	7
		29,761	9 6
General Expenses.			
„ Local Administration and Technical Management ...	12,309	15	9
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.)	14,978	14	11
„ Head Office Administration and General Expenses, including Publicity	7,521	14	9
„ Engineering Expenses	3,929	0	8
		38,739	6 1
<i>Less</i> —Charged to Pooled Costs	4,645	16	6
„ Deferred Payment Scheme, including Propaganda and Showroom Expenses			
		4,190	3 10
		297,871	7 4
„ Interest	111,140	10	5
„ Redemption Fund	69,154	0	5
„ Instalments on Caledon Municipality Loan	581	7	8
„ Amount set aside to Reserve Fund	16,500	0	0
		197,375	18 6
<i>Less</i> —Charged to Pooled Costs	67,349	13	3
		130,026	5 3
		£427,897	12 7
To Balance brought down		£2,696	4 2
„ Special contribution to Pension Fund to provide increased benefits		5,397	6 5
„ Balance as per Balance Sheet		6,158	19 3
		£14,252	9 10

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
23rd April, 1942.

Account No. 5.

Commission.

UNDERTAKING.

ended 31st December, 1941.

Cr.

By Sales of Electricity—							
Traction Supplies	£164,733	18	10				
Bulk Supplies	40,880	4	7				
Industrial Supplies	134,741	5	4				
Domestic and Lighting Supplies	78,208	2	0				
		£418,563	10 9				
„ Deferred Payment Scheme						5,625	7 5
„ Other Revenue	1,850	12	3				
<i>Less</i> —Credited to Pooled Costs	838	2	0				
						1,012	10 3
„ Balance carried down						2,696	4 2
						£427,897	12 7
By Balance at 31st December, 1940, brought forward ...						£14,252	9 10
						£14,252	9 10

Referred to in our Report of 27th May, 1942.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply Commission

Dr. Statement of Pooled Costs for the Year ended

Pooled Generation of Electricity.						
To Operation and Maintenance—						
Fuel	...	...	...	...	...	£343,484 15 11
Water, Oil, Waste and Stores	...	...	...	...	...	11,796 11 1
Salaries, Wages and Other Expenses	...	...	...	...	...	71,886 4 2
						£427,167 11 2
„ General Expenses (including Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.)	...	...	...	...	...	15,431 7 11
„ Interest	...	...	...	...	...	110,524 13 4
„ Redemption Fund	...	...	...	...	...	108,147 1 8
„ Reserve Fund	...	...	...	...	...	13,312 0 3
						£674,582 14 4

Cape Town,
23rd April, 1942.

and City of Cape Town.

31st December, 1941, and Allocation thereof. Cr.

By Allocation of Pooled Costs in terms of Agreement—						
Electricity Supply Commission	...	...	...	...	...	£223,278 2 4
City of Cape Town	...	...	...	...	...	449,186 6 10
						£672,464 9 2
„ Sundry Revenue	...	...	...	...	...	2,118 5 2
						£674,582 14 4

D. P. HOWELLS,
for GEO. H. SWINGLER,
Manager of the Pooled Stations.

Electricity Supply

SABIE

Dr.	Revenue Account for the Year				
	Generation of Electricity.				
To Operation—					
Water, Oil, Waste and Stores	£127	9	5		
Salaries and Wages	2,265	0	8		
Other Expenses	45	4	4		
„ Maintenance—					
Stores	364	16	2		
Salaries and Wages	182	0	11		
Other Expenses	190	17	1		
				£3,175	8 7
	Distribution of Electricity.				
„ Operation and Maintenance—					
Stores	18	5	2		
Salaries and Wages	269	15	7		
Other Expenses	214	11	4		
				502	12 1
	General Expenses.				
„ Local Administration and Technical Management ...	297	4	7		
„ General Expenses (including Maintenance of Quarters, Insurance, Pension Fund Contributions, etc.) ...	411	11	8		
„ Head Office Administration and General Expenses, including Publicity	902	12	2		
„ Engineering Expenses	471	9	8		
				2,082	18 1
				5,760	18 9
„ Interest				4,225	15 5
„ Redemption Fund				3,481	2 3
„ Amount set aside to Reserve Fund				600	0 0
				£11,067	16 5
To Balance brought down	£172	16	7		
„ Special contribution to Pension Fund to provide increased benefits	405	15	8		
„ Balance as per Balance Sheet	55	4	9		
				£633	17 0

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
23rd April, 1942.

Account No. 7.

Commission.

UNDERTAKING.

ended 31st December, 1941.

Cr.

By Sales of Electricity—					
Mining Supplies	£13,894	19	10		
.. Balance carried down	172	16	7		
				£14,067	16 5
By Balance at 31st December, 1940, brought forward	£633	17	0		
				£633	17 0

Referred to in our Report of 27th May, 1942.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply

KLIP GENERATING

Dr. Revenue Account for the Year

Generation of Electricity.						
To Operation—						
Fuel	...	...	...	...	...	£390,969 18 8
Water, Oil, Waste and Stores	...	...	...	...	...	8,321 4 4
Salaries and Wages	...	...	...	...	...	47,443 11 1
Other Expenses	...	...	...	...	...	1,638 14 0
„ Maintenance—						
Stores	...	...	...	...	...	10,077 12 0
Salaries and Wages	...	...	...	...	...	25,790 15 6
Other Expenses	...	...	...	...	...	4,806 5 5
						£489,048 1 0
General Expenses.						
„ Local Administration and Technical Management	...	...	...	...	...	9,608 13 0
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.)	...	...	...	...	...	17,053 17 10
„ Administration, Engineering and General Expenses of Operating Party (The Victoria Falls and Transvaal Power Company, Limited)	...	...	...	...	...	17,325 0 0
„ Head Office Administration and General Expenses, including Publicity	...	...	...	...	...	6,358 0 0
„ Engineering Expenses	...	...	...	...	...	3,321 3 0
						53,666 13 10
						542,714 14 10
„ Interest	...	...	...	...	...	219,166 2 9
„ Redemption Fund	...	...	...	...	...	151,693 5 9
„ Provision for Repayment of Amounts Outstanding (Rand Water Board)	...	...	...	...	...	6,453 6 11
„ Amount set aside to Reserve Fund	...	...	...	...	...	59,084 7 11
						£979,111 18 2

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
23rd April, 1942.

Commission.

STATION UNDERTAKING.

ended 31st December, 1941.

Cr.

By Sales of Electricity—						
Bulk Supplies	...	...	...	...	...	£974,845 19 1
„ Other Revenue	...	...	...	...	...	4,265 19 1
						£979,111 18 2

Referred to in our Report of 27th May, 1942.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply

RAND EXTENSION

Dr.

Revenue Account for the Year

To General Expenses (Insurance, etc.)	£141	6	2
„ Head Office Administration and General Expenses, including Publicity	655	2	4
„ Engineering Expenses	342	4	1
		£1,138	12 7
„ Interest		27,049	0 7
„ Redemption Fund		19,718	5 11
„ Amount set aside to Reserve Fund		7,680	5 3
	£55,586	4	4

J. VAN NIEKERK, Chief Accountant.

Johannesburg,
23rd April, 1942.

Account No. 9

Commission.

UNDERTAKING.

ended 31st December, 1941.

Cr.

By Amount recovered from The Victoria Falls and Transvaal Power Company, Limited	£55,586	4	4
	£55,586	4	4

Referred to in our Report of 27th May, 1942.

ALEX. AIKEN & CARTER, }
B. HALSEY, } Auditors.

Electricity Supply Commission.

STATEMENT SHOWING THE PRICE OR RENT OF LAND OR RIGHTS OR INTERESTS IN OR OVER LAND OR OTHER PROPERTY ACQUIRED OR HIRED BY THE COMMISSION DURING THE YEAR 1941.

(See previous Annual Reports for Rights or Interests in or over Land Acquired prior to 1941.)

Farm or Lot.	District.	Title.	Purchase Price or Rental.	Acquired From.	Purpose for which Required.
NATAL CENTRAL UNDERTAKING.					
Lots 12 and 13, Dassenhoek	Durban	Right-of-way for 10 years	£2 0 0 per annum	The Natal Land and Colonization Co., Ltd.	Power Conductors
Uitkomst and Doornrug No. 852	Pietermaritzburg	Servitude of Right-of-way in Perpetuity	£20 0 0	P. J. Elton	do.
Vaalkop and Dadelfontein No. 885	do.	do.	£14 0 0	The Chapman Trust	do.
do.	do.	do.	£20 15 0	C. E. H. Thrash	do.
do.	do.	do.	£25 0 0	C. H. Keel	do.
Liefontein No. 1175	do.	do.	£23 0 9	W. H. Keytel	do.
Uitkomst and Doornrug No. 852	do.	do.	£1 0 0	The Evangelical Lutheran Congregation of Cato Ridge	do.
Uitzoek No. 1104	do.	do.	£26 10 0	M. C. Beater	do.
Uitzoek No. 1104 and Uitvlugt No. 958	do.	do.	£22 10 0	C. P. Lloyd and T. A. Malpage	do.
Lamonts Vale No. 1210	do.	do.	£5 0 0	W. J. Isbister	do.
Barry Estate A No. 266	Harrismith	do.	£9 5 0	P. J. J. du Preez	do.
Uitkomst and Doornrug No. 852	Pietermaritzburg	do.	£17 10 0	E. F. Meyer	do.
Slangspruit No. 1448	do.	do.	£5 0 0	R. Long	do.
Liefontein No. 1175	do.	do.	£17 0 0	Patterson Trust	do.
Ambleton No. 1878	do.	do.	£1 0 0	W. Ridley	do.
Uitzoek No. 1104	do.	do.	£6 10 0	G. H. Browning	do.
Slangspruit	do.	do.	£23 10 0	G. J. H. Webster	do.
Vaalkop and Dadelfontein No. 885 and Sutcliffe No. 11651	do.	do.	£25 0 0	A. S. Hardman	do.
Vaalkop and Dadelfontein No. 885	do.	do.	£7 0 0	F. J. Hardman	do.
Liefontein No. 1175	do.	do.	£10 5 0	Rampersad and others	do.
Pieters Deel No. 236	Bethlehem	do.	—	F. Searle	do.
Tweefontein No. 44	Volksrust	do.	£13 0 0	M. G. T. Sassenberg	do.
Ambleton No. 1878	Pietermaritzburg	do.	£20 0 0	N. E. Oldfield	do.
Temptress No. 434	Bethlehem	do.	£7 10 0	E. J. P. Smit	do.
Town and Townlands of Volksrust No. 52	Volksrust	do.	—	Government of the Union of South Africa	do.
CAPE TOWN UNDERTAKING.					
De Poort	Baarl	Servitude of Right-of-way in Perpetuity	£95 11 7	J. G. le Roux	Power Conductors
Land en Zeezicht	Stellenbosch	do.	—	H. C. Louw	do.
Wellington Town Commonage	Wellington	do.	—	Municipality of Wellington	do.
Wellington Town Commonage (East)	do.	Purchase of 3 roods and 29.5 perches	£30 0 0	do.	Sub-station Site
WITBANK UNDERTAKING.					
Klippan No. 72	Witbank	Servitude of Right-of-way in Perpetuity	£3 7 3 per annum	W. L. J. Vos	Power Conductors
Ooogiesfontein No. 65	do.	do.	—	Government of the Union of South Africa	do.
Klippan No. 72	do.	do.	£2 2 0 per annum	G. Buck	do.
Smaldeel No. 70	do.	Servitude of Right-of-way for 10 years	£128 5 6	J. P. Botha	do.
Klipfontein No. 17	do.	do.	£90 0 0	Union Government and S. H. Cloete	do.
RAND EXTENSION UNDERTAKING.					
Hartebeestfontein No. 41	Klerksdorp	Servitude of Right-of-way in Perpetuity	£10 0 0 per annum	C. D. Parfitt	Power Conductors
Uitzicht No. 427	Vredefort	do.	£2 3 0 per annum	O. J. Bekker	do.
Witkop No. 51	Potchefstroom	do.	£5 0 0	J. G. van der Merwe	do.
Wildebeestpan No. 40	Klerksdorp	do.	£20 0 0	A. Motseunyane and others	do.
Oorbietjiesfontein No. 20	Potchefstroom	do.	£7 7 0 per annum	G. van Deventer	do.
Uitzicht No. 427	Vredefort	do.	£0 8 0 per annum	D. H. L. Muller	do.
Wildebeestpan No. 40	Klerksdorp	do.	£22 17 6	A. M. and C. Motseunyane	do.
Rietfontein No. 54	Potchefstroom	do.	£2 5 0 per annum	Estate of the late M. L. Shakinovsky and others	do.
do.	do.	do.	£15 0 0	D. J. J. van Vuuren and others	do.

Farm or Lot.	District.	Title.	Purchase Price or Rental.	Acquired From.	Purpose for which Required.
RAND EXTENSION UNDERTAKING—(continued).					
Elandsfontein No. 13	Krugersdorp	Servitude of Right-of-way in Perpetuity	£5 0 0	S. Venter	Power Conductors
Rietfontein No. 74	Vereeniging	do.	£3 16 6 per annum	H. J. P. van Vuuren	do.
do.	do.	do.	£2 0 0 per annum	J. F. J. van Vuuren	do.
do.	do.	do.	£4 12 0 per annum	E. P. Muller	do.
Poortje No. 6	Vereeniging	do.	do.	do.	do.
Jachtfontein No. 99	do.	do.	£22 16 9 per annum	M. A. Muller	do.
Rietfontein No. 63	do.	do.	do.	do.	do.
Elandsfontein No. 13	Roodepoort	do.	do.	do.	do.
Kwaggasfontein No. 10	Vereeniging	do.	£9 8 0 per annum	L. C. Cronje	do.
Jachtfontein No. 99	do.	do.	£1 14 6 per annum	C. J. Geldenhuijs	do.
Blesbokfontein No. 60	do.	do.	£1 17 0 per annum	D. J. R. Opperman	do.
Nooitgedacht No. 53	Klerksdorp	do.	£5 0 0	J. C. Burger and others	do.
Lot 11, Sandown	Johannesburg	do.	£5 0 0	C. E. M. B. Bagge	do.
Palmietfontein No. 29	Klerksdorp	do.	£35 0 0	Estate of the late J. A. Naser	do.
Zevenfontein No. 193	Vredefort	do.	£5 0 0	J. Fell	do.
Boschbank No. 12 and Rietfontein No. 123	do.	do.	do.	do.	do.
Wildebeestpan No. 40	Klerksdorp	do.	£28 15 0 per annum	P. W. Jordaan	do.
Hartebeestfontein No. 41	do.	do.	£5 0 0	A. Motseumyane	do.
do.	do.	do.	£5 18 0 per annum	Government of the Union of South Africa, L. van Wyk and S. R. Kruger	do.
do.	do.	do.	£4 7 0 per annum	Government of the Union of South Africa and G. S. Viljoen	do.
Wildebeestpan No. 40	do.	do.	£8 7 0	T. Makgale	do.
Waterpan No. 17	Krugersdorp	do.	£96 1 0	R. Fisman and J. Miller	do.
Vlaktfontein No. 26	Vereeniging	do.	£10 12 0 per annum	J. P. Cronje	do.
Waterpan No. 17	Krugersdorp	do.	£2 5 0 per annum	J. L. du Plessis	do.
Vlaktfontein No. 26	Vereeniging	do.	£4 11 0 per annum	J. J. Engelbrecht	do.
Kwaggasfontein No. 10 and Rietspruit No. 91	do.	do.	£14 11 0 per annum	M. S. and F. J. Basson	do.
Vlaktfontein No. 26	do.	do.	£3 2 0 per annum	J. F. van der Merwe	do.
do.	do.	do.	£6 17 9 per annum	J. Meintjes	do.
Waterpan No. 17	Krugersdorp	do.	—	Government of the Union of South Africa	do.
Rietspruit No. 91	Vereeniging	do.	£5 initial payment and	J. J. Schoeman	do.
Vlaktfontein No. 26	do.	do.	£3 7 6 per annum	do.	do.
do.	do.	do.	£5 7 0 per annum	C. F. J. van der Merwe	do.
do.	do.	do.	£0 2 3 per annum	J. C. van der Merwe	do.
Blesbokfontein No. 60	do.	do.	£30 15 0	G. R. Sanders	do.
Nooitgedacht No. 53	Klerksdorp	do.	£1 5 0 per annum	J. J. A. C. Smit	do.
Zandfontein No. 1	Johannesburg	do.	£5 0 0	G. S. and J. A. Swanepoel	do.
do.	do.	do.	£5 0 0	M. P. Harrison	do.
do.	do.	do.	£5 0 0	W. Nicol	do.
do.	do.	do.	£5 0 0	I. Michel	do.
do.	do.	do.	£1 15 0 per annum	M. J. Heyneke	do.
Klippoortje No. 10	Nigel	do.	£10 0 0	M. Simpson	do.
Waterval No. 34	Johannesburg	do.	£2 2 6 per annum	L. Stoker en P. Schuurman	do.
Rietkol No. 44	Springs	do.	£5 0 0	Witwatersrand Estates Ltd.	do.
Middelbult No. 22	do.	do.	£7 1 0	L. Isakov and T. Abramowitz	do.
Grootfontein No. 74	Potchefstroom	do.	£100 0 0	Eloff Plantations and Township Syndicate Limited	do.
Rietpoort No. 114	do.	do.	£51 9 0	G. A. J. Saayman	do.
Lot 1, Parkmore	Johannesburg	do.	£23 0 0	T. Tom	do.
Hoffontein No. 55	Vereeniging	Servitude of Right-of-way for 99 years	£5 0 0	African Realty Trust Ltd.	Stay Wire
Lot 9, Edenburg	Johannesburg	Servitude in Perpetuity	£4 0 3 per annum	J. J. van Zijl	do.
			£50 0 0	Sisters of Charity of J.M. Mother House Ghent	Transformer Site
KLIP GENERATING STATION UNDERTAKING.					
Kookfontein No. 57 } Waldrift No. 92 }	Vereeniging	Servitudes of Right-of-way in Perpetuity	£33 6 8 per annum	Estate of the late Donald McKay	Power Conductors and Water Mains

ANNEXURE "B"

ELECTRICITY SUPPLY COMMISSION - 19th REPORT (1941)

STATEMENT NO. 1.

Summary of principal plant and equipment installed at the Commission's several Undertakings as at 31st December, 1941 : -

POWER STATIONS.

Caledon (Cape Town Undertaking)	Oil
Colenso (Natal Central Undertaking)	Steam
Congella (Durban Undertaking)	Steam
De Doorns (Cape Town Undertaking)	Oil
Klip	Steam
Margate (Durban Undertaking)	Oil
Sabie	Hydro
Salt River (Cape Town Undertaking)	Steam
Unkomaas (Durban Undertaking)	Oil
Volkstrust (Natal Central Undertaking)	Oil
Witbank	Steam

BOILER PLANT

Power Station	No. of Boilers	Normal Rating of each Boiler Lbs. of steam per hour.	Total Rating of all Boilers. Lbs. of steam per hour.	Pressure Lbs. per square inch.
Colenso	{ 8 4	60,000 90,000	840,000	290
Congella	{ 6 4	60,000 100,000	760,000	{ 275 300
Klip	22	180,000	3,960,000	390
Salt River	{ 2 6	60,000 100,000	720,000	270 425
Witbank	20	70,000	1,400,000	225
TOTALS	72		7,680,000	

GENERATING PLANT

Power Station	No. of Generators	Normal Rating of each Generator		Rating of Generator House		Voltage of Generation	Rating Hour Set	Kilowatts
		Kilo-watts	Kilovolt Amperes.	Kilo-watts	Kilovolt Amperes.			
Caledon	{ 1 2	135 50	- -	235	-	500/250 D.C.		
Colenso	5	12,000	13,350						60,000	66,750	6,600 A.C.
Congella	{ 2 3 1 1	6,000 12,000 20,000 30,000	7,500 15,000 25,000 37,500	98,000	122,500	{ 6,600 A.C. 6,600 A.C. 6,600 A.C. 33,000 A.C.		
De Doorns	{ 1 1 1 1	378 200 67 40	473 250 84 50						685	857	380/220 A.C.
Klip	12	33,000	41,250	396,000	495,000	10,500 A.C.		28,000
Margate	{ 1 1	93 73	110 86	166	196	380/220 A.C.		
Sabie	3	450	600						1,350	1,800	3,300 A.C.
Salt River	{ 3 3	10,000 20,000	11,000 25,000	90,000	108,000	{ 12,000 A.C. 33,000 A.C.		300
Umkomaas	2	32	38						64	76	380/220 A.C.
Volkswrust	2	250	300	500	600	3,300 A.C.		
Witbank	5	20,000	23,500	100,000	117,500	6,600 A.C.		8,000
TOTALS	51			747,000	913,279			36,300

Total Station Capacity: 783,300 kilowatts
(inc. House Sets)

TRANSMISSION LINES AND CABLES

Undertaking.	88,000 volts Route Miles	80,000 volts Route Miles	40,000 volts Route Miles	33,000 volts Route Miles	22,000, 21,000 20,000 volts Route Miles	12,000, 11,000 volts Route Miles	6,600, 3,300 2,200, 2,000 volts Route Miles	380/220 volts Route Miles	Total Route Miles
Cape Town	-	-	-	253	-	96	133	178	660
Durban (South Coast)	-	-	-	58	-	31	28	47	164
Natal Central	547	-	-	33	67	128	179	78	1082
Rand Extension	-	255	83	-	11	-	24	14	387
Sabie	-	-	-	-	7	-	-	1	8
Witbank	-	-	22	-	116	-	29	31	198
TOTALS	547	255	105	344	201	255	393	349	2449

ELECTRICITY SUPPLY COMMISSION

STATEMENT No. 2.

Summary of principal plant and equipment in course of installation
or on order as at 31st December, 1941:-

BOILER PLANT.

Power Station.	Number of Boilers	Capacity in lbs. of steam per hour (normal rating)		Pressure lbs. sq. inch
		Each	Total	
Congella	3	200,000	600,000	625
Klip	2	180,000	360,000	390
Vaal	6	190,000	1,140,000	360
			2,100,000	

GENERATING PLANT.

Power Station	Number of Sets.	Capacity Each	Total Kilowatts
Colenso	1	25,000 kW	25,000
Congella	1	40,000 kW	40,000
Fort Shepstone	2	700 kW	1,400
Vaal	{ 5 1	33,000 kW 7,500 kW (House Set)	172,500
			238,900

TRANSMISSION LINE AND CABLES.

	33,000 Volts Route Miles	11,000 Volts Route Miles	Totals
Overhead Lines	50	1.25	51.25

TRANSFORMERS

(Step-up and Step-down)

	Kilovolt-Amperes
Total capacity in course of installation or on order	468,592

CONVERTING SUB-STATIONS.

Type	Number of Sub-Stations	Number of Sets	Total Rating
Mercury Arc Rectifiers	4	0	9668 kW Forward
Motor Generator	1	1	2400 kW

STATIC TRANSFORMERS AT POWER STATIONS AND SUB-STATIONS.

(Step-up and Step-down, including Spares)

Undertaking.	Capacity Kilovolt Amperes
Cape Town	139,030
Durban	70,660
Klip	548,333
Natal Central	213,445
Rand Extension	237,194
Reef	68,130
Sabie	3,640
Withank	186,091
 TOTAL	 <u>1,466,523</u>

CONVERTING SUB-STATIONS.

Type	Number of Sub-stations.	Number of Units	Total Rating
Motor Generators	13	23	46,000 kW
Rotary Converters	7	14	28,000 kW
Rectifiers	26	+43 :	* 77,337 kW
 TOTALS	 <u>46</u>	 <u>80</u>	 <u>-</u>

+ Of these some are equipped for rectifying and inverting - the total inverted rating is 10,000 kW.

* Forward rating.

STATEMENT No. 4.

Units sold to all consumers during the past seventeen years.

Year	Cape Town Under- taking	Durban Under- taking	Klip Under- taking	Natal Cent. Under- taking	Sabie Under- taking.	Witbank Under- taking	TOTAL
1925	-	-	-	-	75,943	-	75,943
1926	280,242	-	-	719,666	651,458	160,031,213	161,682,579
1927	5,811,836	-	-	104,206,235	1,938,940	439,061,722	551,018,733
1928	31,038,697	15,563,460	-	114,213,037	2,829,888	464,267,213	627,912,295
1929	47,945,690	78,873,576	-	123,911,774	3,176,173	543,091,138	796,998,351
1930	49,772,016	99,228,000	-	117,075,484	4,585,060	618,951,364	889,611,924
1931	52,109,958	103,899,765	-	101,131,880	6,585,553	603,359,113	867,086,269
1932	64,268,873	109,808,223	-	100,292,933	6,080,010	610,285,123	890,735,162
1933	100,685,629	118,538,312	-	109,186,538	6,349,651	639,368,114	974,128,244
1934	73,583,974	131,104,182	-	124,898,129	7,329,679	648,245,530	985,161,494
1935	80,020,511	149,874,024	-	154,278,600	7,181,282	727,888,529	1,119,242,946
1936	85,840,383	170,493,987	556,997,155	171,476,131	6,863,253	696,376,199	1,688,047,108
1937	94,038,449	189,412,691	1,349,853,464	210,632,827	7,166,684	684,516,633	2,535,620,748
1938	98,861,619	209,495,780	1,666,852,594	234,948,157	7,240,167	768,114,272	2,985,452,589
1939	106,451,848	233,677,491	2,193,206,661	266,238,056	6,380,657	767,741,727	3,573,696,440
1940	119,770,941	242,741,129	2,566,536,197	281,121,807	6,669,552	853,317,743	4,070,157,369
1941	136,240,415	270,316,419	2,675,943,959	302,395,900	6,565,110	862,562,248	4,254,024,051

A. - The units sold at Cape Town do not include the units supplied to Cape Town Corporation under the Pooling Agreement.

STATEMENT No. 5.

Distribution of the units sold during 1941 as between the various classes of consumers.

UNITS SOLD, 1941.

Undertaking.	Traction	Bulk	Industrial and Mining	Domestic and Lighting	Total
Cape Town	58,847,238	15,619,387	49,136,884	12,636,906	136,240,415
Durban	-	252,717,869	15,366,752	2,231,798	270,316,419
Klip	-	2,675,943,959	-	-	2,675,943,959
Natal Central	243,979,449	42,621,492	12,913,088	2,881,871	302,395,900
Sabie	-	-	6,565,110	-	6,565,110
Witbank	114,905,726	595,781,173	150,165,919	1,709,430	862,562,248
TOTALS	417,732,413	3,582,683,880	234,147,753	19,460,005	4,254,024,051

STATEMENT No. 6.

POWER STATION STATISTICS - 1941.

Power Station	Units Generated	Maximum Half-hourly Demand Kilowatts (Sent Out)	Load Factor on Units Sent Out. %
Caledon	388,463	-	-
Colenso	339,426,340	54,140	67.8
Congella	290,192,200	69,450	43.9
De Doorns	553,689	-	-
Klip	2,840,347,024	375,210 (Hour)	81.4
Margate	36,543	-	-
Sabie	7,000,800	1,150	68.6
Salt River	93,799,067	50,800	19.3
Volksrust	6,462	-	-
Witbank	802,540,966	103,560 (Hour)	82.6
	<u>4,374,291,554</u>		

STATEMENT No. 7.

Particulars of coal used at the Commission's Steam-raising Power Stations during 1941.

Power Station	COAL CONSUMED			B.T.U.'s		Thermal Efficiency on Units Sent Out.
	Tons. (2,000 lbs.)	Per Unit Generated. Lbs.	Per Unit Sent Out. Lbs.	Average per lb. of Coal.	Average per Unit Sent Out	
Colenso	245,088	1.44	1.52	12,390	18,900	18.1%
Congella	200,708	1.38	1.50	12,200	18,300	18.6%
Klip	2,216,013	1.56	1.66	9,450	15,650	21.8%
Salt River	67,489	1.44	1.57	12,900	20,300	16.8%
Witbank	668,538	1.67	1.79	11,000	19,640	17.4%
	<u>3,397,836</u>					

Average Cost per Ton (2,000 lbs.)

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941
Colenso	8/-	8/3	9/10	10/7	10/9	10/9	11/-	10/10	10/9	10/11	10/11	11/0
Congella	13/2	14/2	15/4	15/6	15/4	15/-	15/5	15/2	15/-	15/3	15/2	15/3
Klip	-	-	-	-	-	-	3/2	3/-	3/3	3/4	3/6	3/6
Salt River	23/5	23/4	24/11	25/4	25/6	25/4	25/4	24/8	25/1	25/6	25/7	25/7
Witbank	2/2	2/2	2/4	2/4	2/3	2/3	2/2	2/2	2/1	2/1	2/-	2/-