

MEMBERS OF THE  
**Electricity Supply Commission.**

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DR. HENDRIK JOHANNES VAN DER BIJL (Chairman).

ALBERT MICHAEL JACOBS.

KARL GUNDELFINGER.

GEORGE GOODBAN ELLIOTT.

# Electricity Supply Commission.

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Electricity House,

82, Marshall Street,

Johannesburg,

31st May, 1934.

To the Honourable

The Minister of Commerce and Industries,

Union Buildings,

Pretoria.

SIR,

In conformity with the provisions of Section 14 of the Electricity Act No. 42 of 1922, the Commission has the honour to submit its Eleventh Annual Report covering its operations for the year ended 31st December, 1933, together with a brief review of its activities up to 31st May, 1934.

An increase in the total sales of electricity can again be recorded and the average price per unit sold shows a reduction as compared with the previous year.

A chart showing the progress of electricity sales to the different classes of consumers year by year is reproduced on page 4.

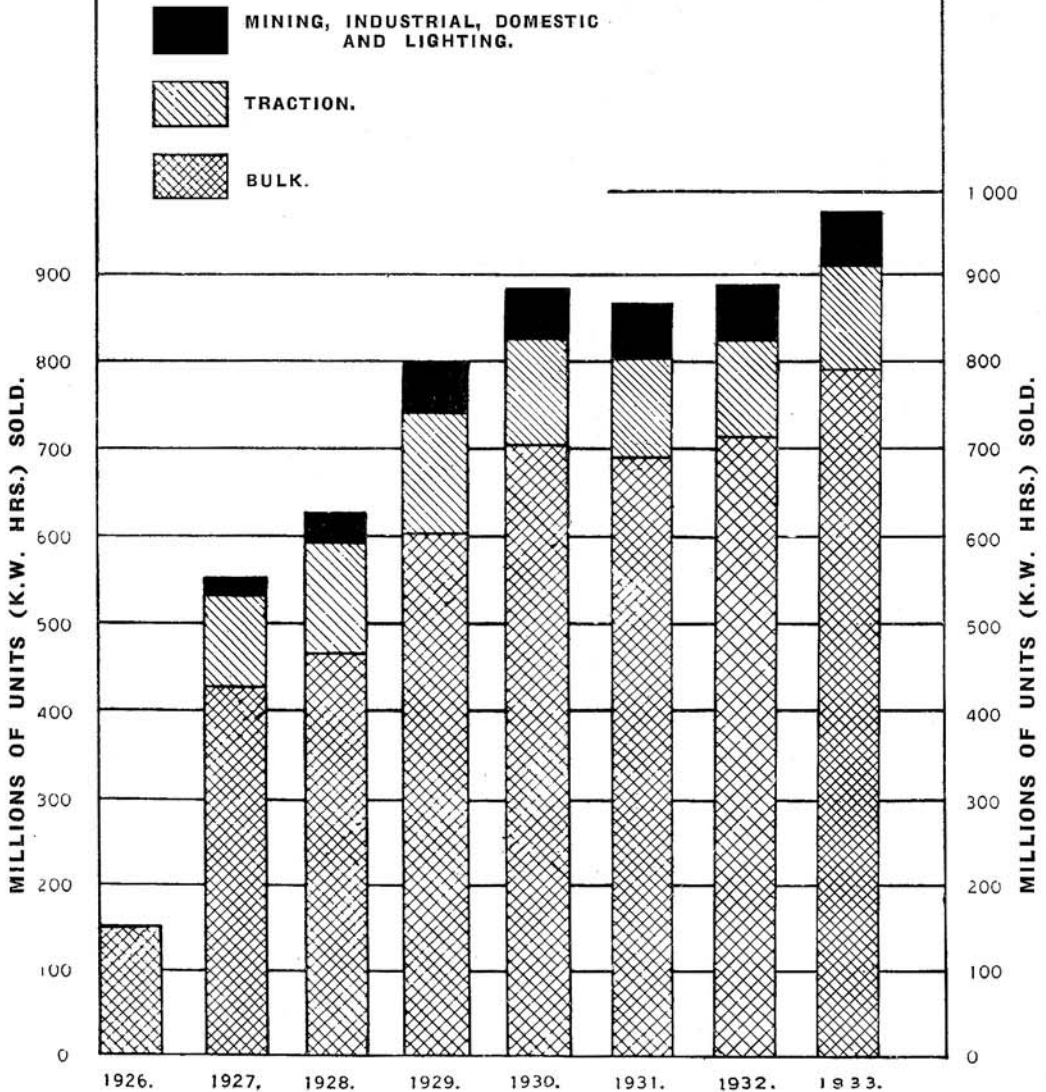
The continued expansion of the use of electricity within the Commission's areas of supply has necessitated various extensions to the plant and equipment. The principal extensions which have been completed or have been undertaken during the period under review are as follows:—

## WITBANK UNDERTAKING.

Installation of four 70/80,000 lb. boilers in the Witbank Power Station.

# Electricity Supply Commission.

## DIAGRAM SHOWING TOTAL ELECTRICITY SALES.



## CAPETOWN UNDERTAKING.

Installation of two 20,000 kilowatt turbo-alternator sets in the Salt River Power Station and extensions to the transmission system with the provision of an additional traction substation for the supply to the Railway Administration for the extensions of suburban railway electrification.

## DURBAN UNDERTAKING.

Installation of one 20,000 kilowatt turbo-alternator set in the Congella Power Station.

## NATAL CENTRAL UNDERTAKING.

Extension of transmission system and provision of two additional traction substations for the supply to the Railway Administration for the extension of the system of electric traction in Natal.

To finance the extensions not previously provided for and to repay Loans Nos. 1 and 2 of £750,000 and £5,000,000 respectively from the Government, advantage was taken of the favourable conditions prevailing to raise a loan of £6,750,000, which was offered for public subscription on 26th March, 1934, and was oversubscribed within 48 hours. The whole of the capital of the Commission has now been publicly subscribed, and it is estimated that as a result of the repayment of the above Loans the saving to the Commission's consumers, calculated over the period of these Loans, will exceed £5,000,000.

With regard to the establishment of new undertakings the Commission made application in March, 1934, for your approval, which was subsequently received, to the establishment of:—

- (a) a generating station in the Vereeniging District of the Transvaal, and
- (b) an undertaking for the supply of electricity on the Witwatersrand and in the adjoining areas.

The application was the outcome of an agreement concluded between The Victoria Falls and Transvaal Power Company, Limited, and the Commission, which provides, inter alia, for the co-operation of these two large concerns in the development of electricity supply in the interests of the mining, industrial and other users of electricity on the Witwatersrand and in the adjoining areas.

Application was also made to the Electricity Control Board in terms of the Electricity Act No. 42 of 1922 for a Permit and Licence respectively for these two undertakings and for the consent of the Board to the cession of the Licence to The Victoria Falls and Transvaal Power Company, Limited.

This application, which was heard by the Board in April, 1934, has been granted and the Board's consent to the cession of the Licence has been obtained.

Further capital will be required to finance these undertakings and for the expansion which it is anticipated will take place as a result of the various avenues being explored by the Commission to encourage and develop the use of electricity.

The figures of primary interest in connection with the operation of the Commission's undertakings for the year 1933 are given below, together with the relative figures for the previous year:—

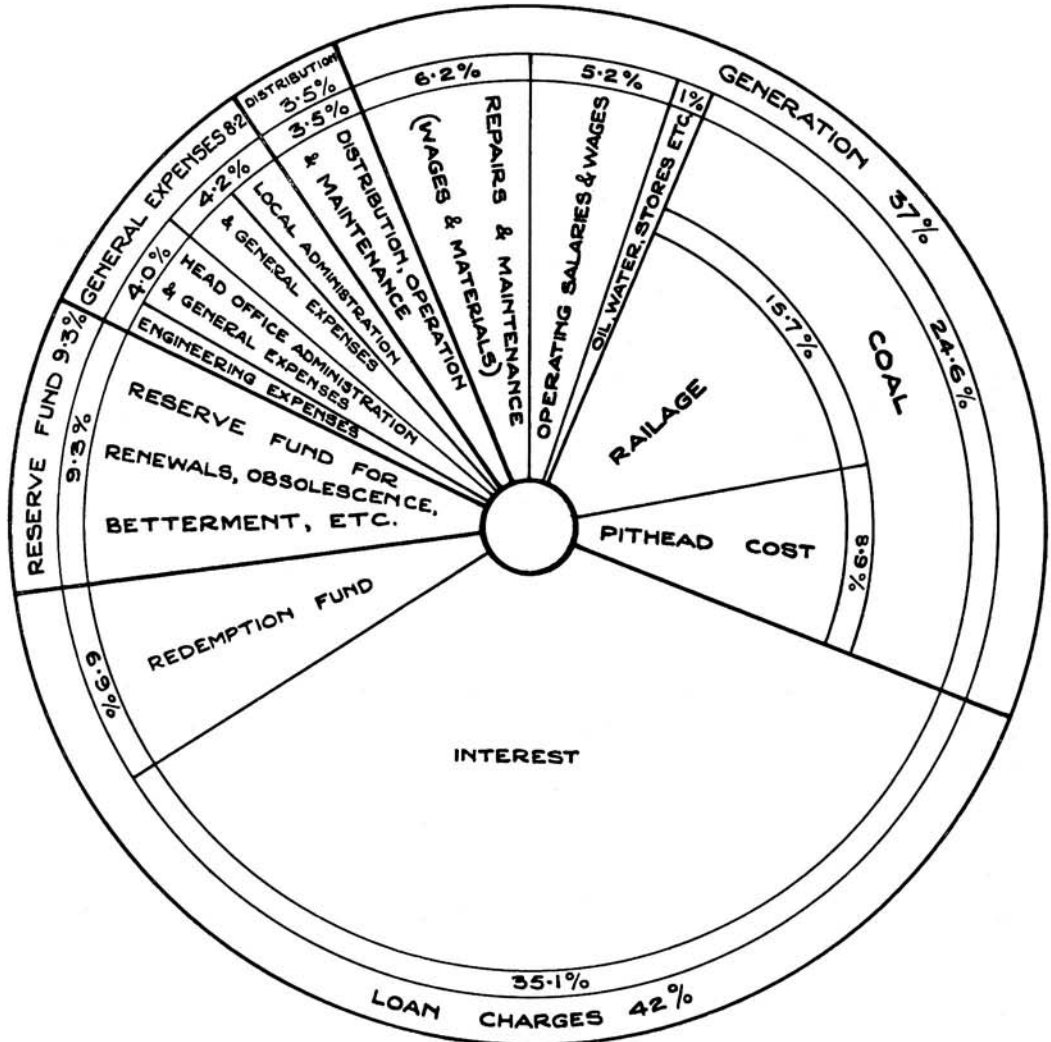
	1933.	1932.
Total Capital Expenditure at 31st December	£8,637,891	£8,411,667
Total Revenue ... ..	£1,165,782	£1,095,181
Total Production Costs (including Capital Charges, Reserve Fund Contributions, etc.)	£1,171,022	£1,091,759
Total Capacity of Main Generating Sets (kilowatts) ... ..	259,350	239,350
Total Electricity Sales (units) ... ..	974,128,244	890,735,162
Average Cost per Unit Sold ... ..	0.289d.	0.294d.
Total Coal Consumption (tons) ... ..	859,691	795,333
Number of Consumers ... ..	2,676	2,236
Total Area of Supply (approx.) (square miles)	11,000	11,000

A diagram showing the subdivision of the Commission's total production costs during the year 1933 is reproduced on the opposite page.

In terms of Clause 10 (4) of the Electricity Act, 1922, the Commission is required as a general principle to carry on its undertakings, as far as is practicable, neither at a profit nor at a loss. The Commission's tariffs of supply are designed to give effect to this principle. It will be appreciated, however, that, as many of the items which make up the total cost of production are subject to variation, and the revenue is dependent upon the use made of the supply by the consumers, it is not to be expected that revenue in any year will exactly meet cost.

# Electricity Supply Commission.

DIAGRAMMATIC SUBDIVISION OF TOTAL PRODUCTION COSTS  
DURING THE YEAR 1933.



NOTE.—Under the heading "General Expenses" is included miscellaneous expenditure such as maintenance of quarters, stores expenses, assessment rates, wayleaves, rents, insurance, audit expenses, pension fund contributions, legal expenses, etc.

From the individual revenue accounts for each undertaking in respect of the year ended 31st December, 1933, shown under Annexure "A" it will be seen that after provision is made for Reserve in terms of Section 9 of the Electricity Act, surplusses are shown in the case of the Natal Central and Sabie Undertakings, whereas in the case of the Witbank, Durban and Capetown Undertakings deficits are reflected.

The deficit in connection with the Witbank Undertaking was due largely to an adjustment as a result of the settlement arrived at between the Commission and The Victoria Falls and Transvaal Power Company, Limited, regarding the interpretation of the agreement affecting the allocation of costs, which was referred to in the Auditors' report for the year 1932. The surplus carried forward from the previous year was, however, sufficient to cover this contingency.

In the case of the Capetown Undertaking the deficit was due primarily to the amount spent on the plant and equipment at the Salt River Power Station preparatory to the operation as from 29th October, 1933, of this Power Station with the Dock Road Power Station of the Capetown Corporation in terms of the agreement entered into between the Commission and the Capetown Corporation for the pooling of the two stations. Although operation under the Agreement was only commenced late in 1933, the results so far indicate that the benefits anticipated by the arrangement are being realised.

Generally the position of all the undertakings for 1934 shows an improvement as compared with the same period for the previous year.

The Commission submits for the year 1933 the following annexures to this Report:—

Annexure "A": The Commission's Annual Accounts and the Report of the Auditors.

Annexure "B": The standard prices in force in respect of the Commission's several undertakings.

Annexure "C": Particulars of the areas of supply of the Commission's undertakings.

Annexure " D " embodying—

Statement No. 1—Summary of principal plant and equipment installed as at 31st December, 1933.

Statement No. 2—Summary of principal plant and equipment in course of installation or on order as at 31st December, 1933.

Statement No. 3—Showing the price or rent of any land or rights or interest in or over land or any other property acquired or hired by the Commission.

Annexure " E " showing the Electricity Supply Schemes of Urban Local Authorities reported upon by the Commission in terms of Section 38 of the Electricity Act, 1922.

Annexure " F " embodying—

Statement No. 1—Units sold to all consumers during the past eight years.

Statement No. 2—The distribution of the units sold during 1933 as between the various classes of consumers.

Statement No. 3—Statistics relating to the Commission's undertakings.

By Order of the Commission,

I have the honour to be,

Sir,

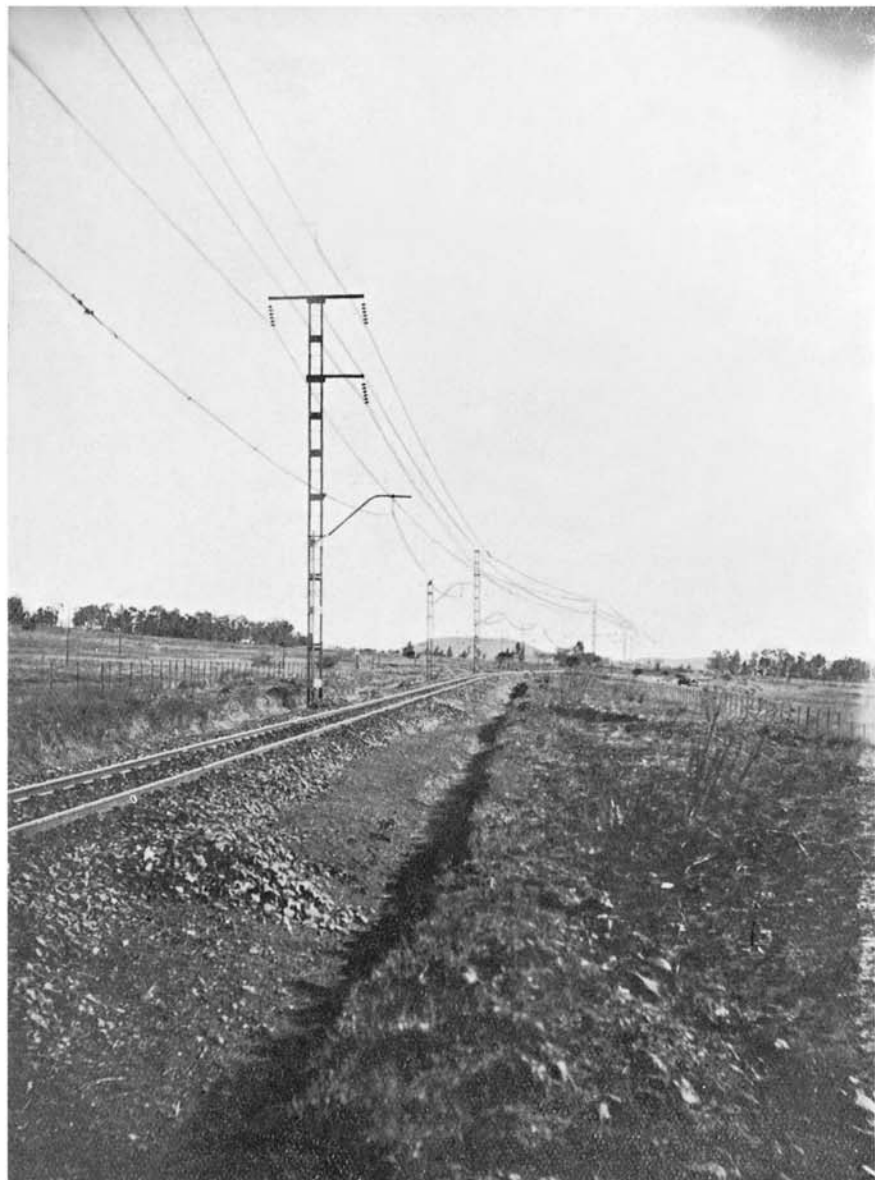
Your obedient servant,

A handwritten signature in black ink, reading "J. Guander Bijl". The signature is written in a cursive style with a horizontal line underneath the name.

CHAIRMAN.

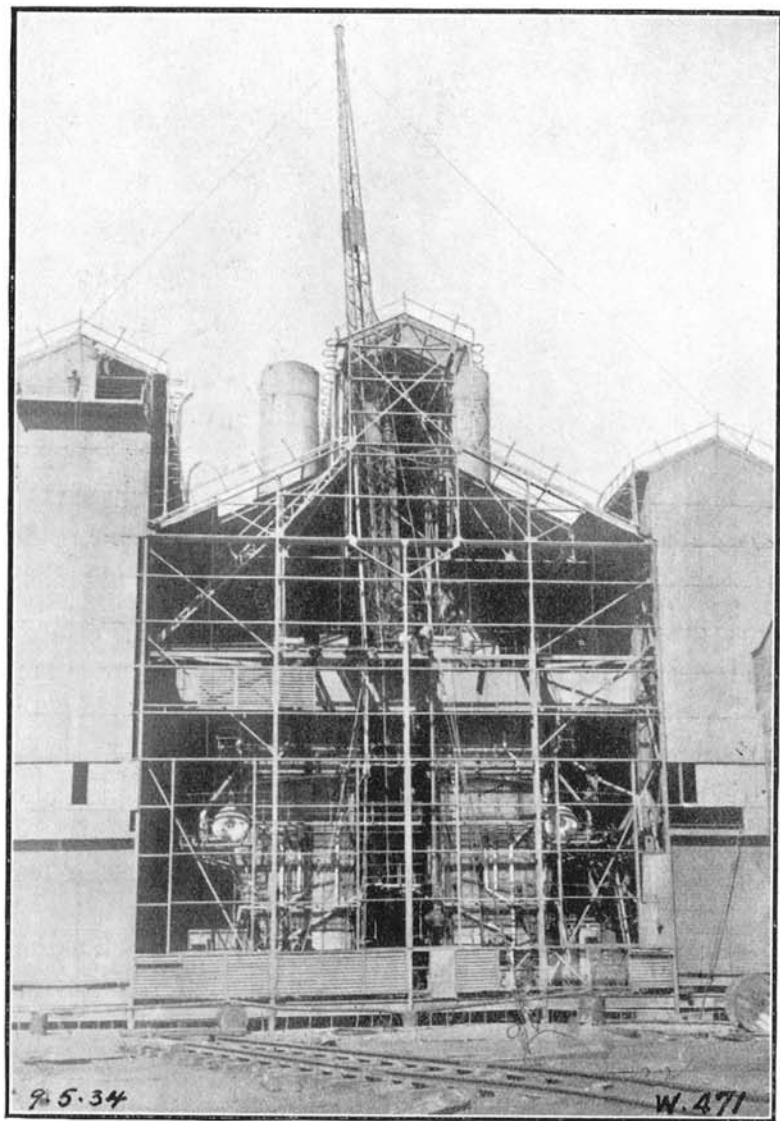


**NATAL CENTRAL UNDERTAKING.**



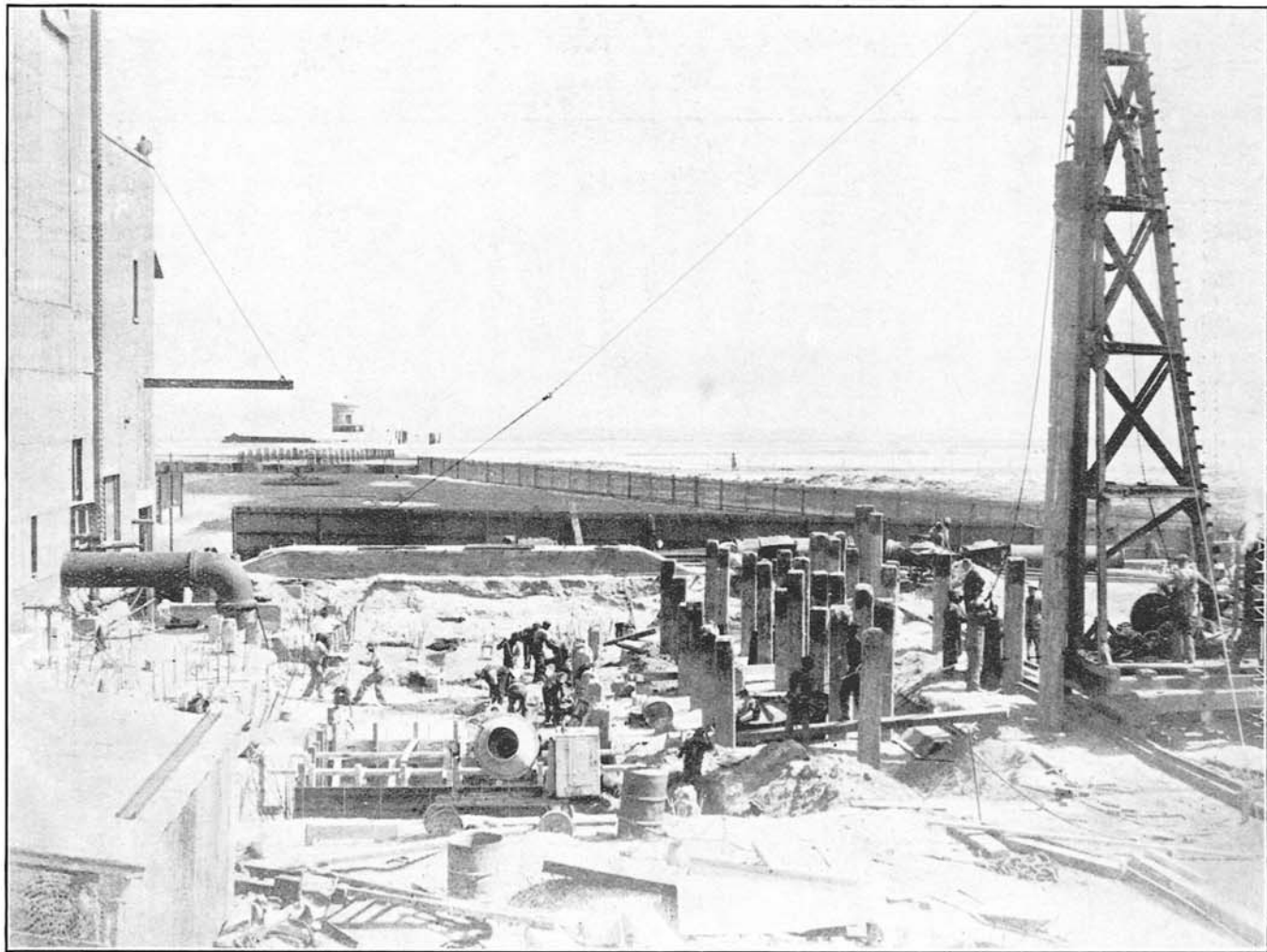
**Daimana-Harrismith Railway Electrification.  
88 Kilovolt Transmission Line on Track Structures.**

WITBANK UNDERTAKING—WITBANK POWER STATION.



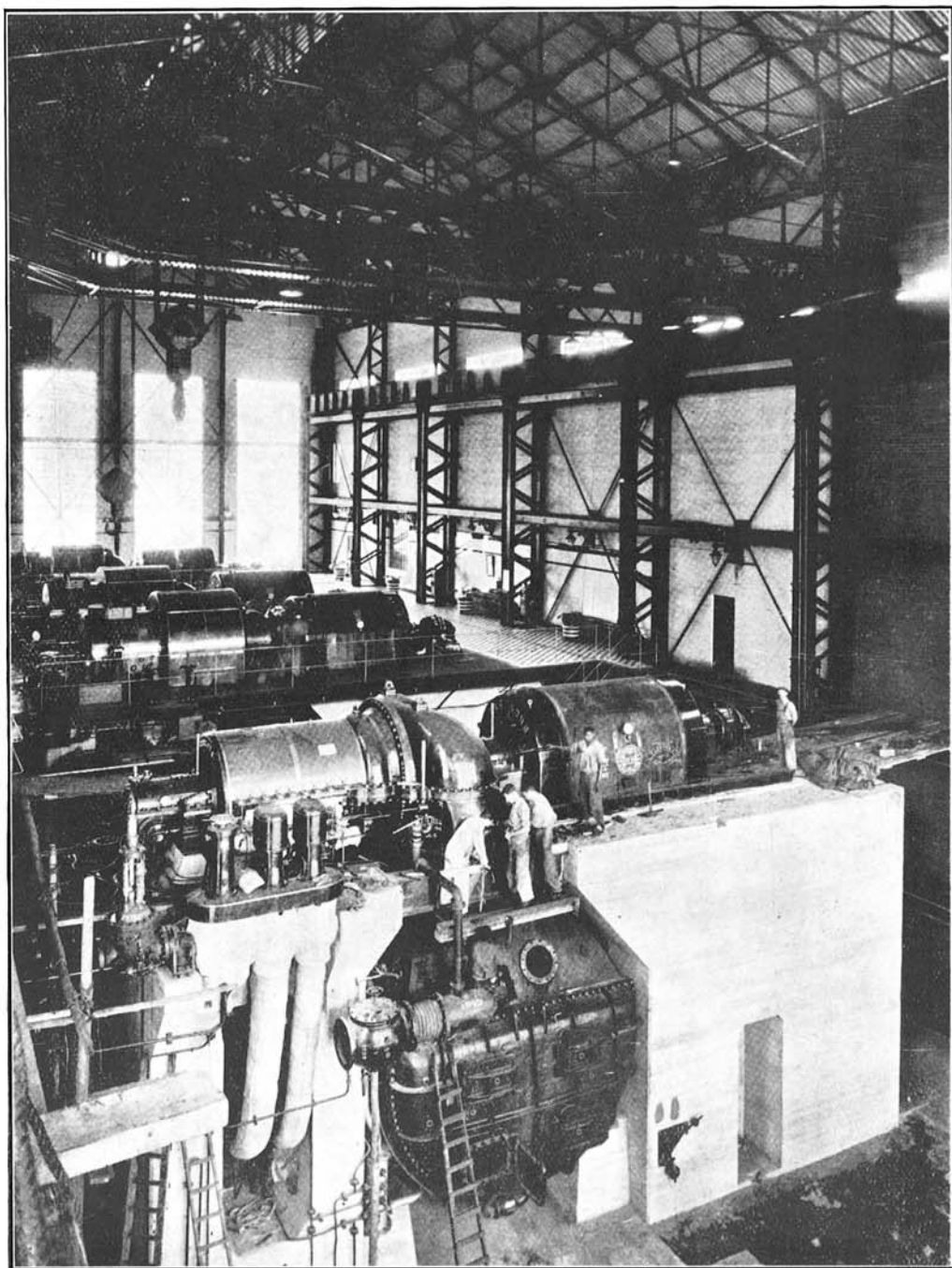
Extension of Boiler House to accommodate Four Boilers.

**CAPETOWN UNDERTAKING—SALT RIVER POWER STATION.**



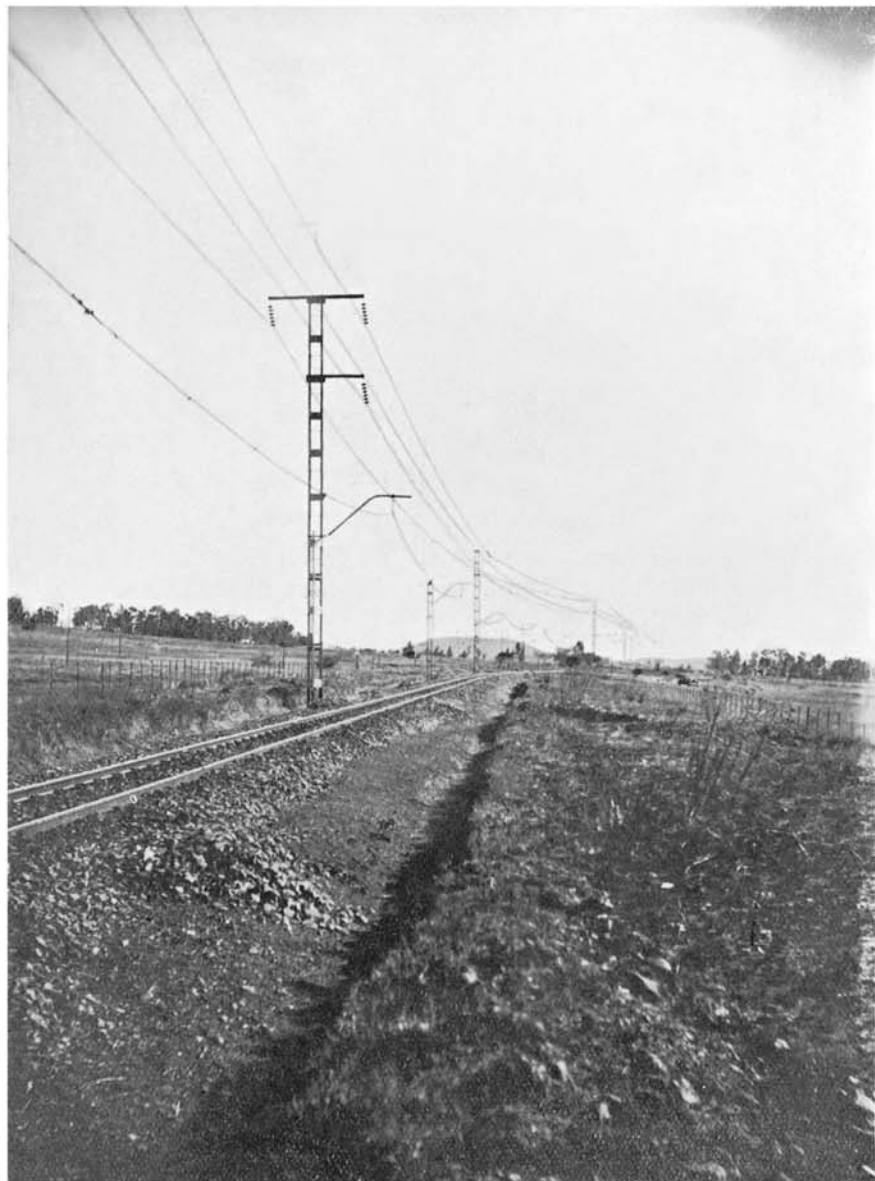
**Piling and foundations for extension of Engine Room to accommodate two 20,000 Kilowatt Turbo Alternators.**

DURBAN UNDERTAKING—CONGELLA POWER STATION.



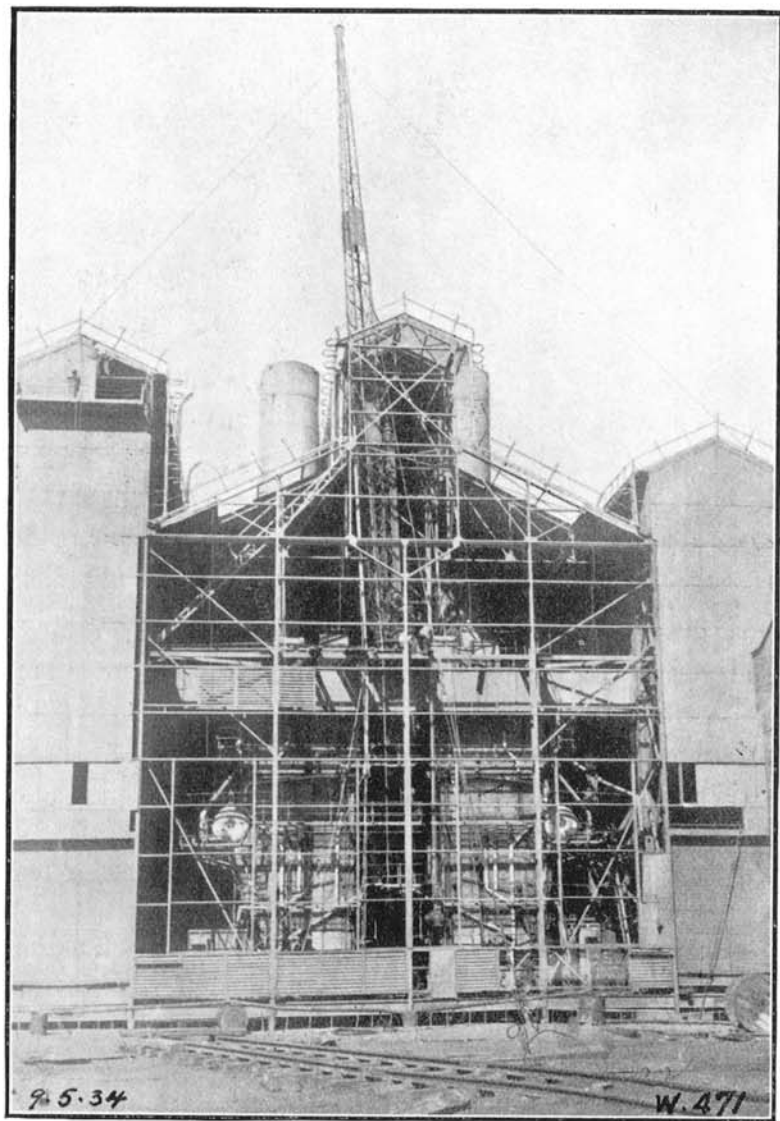
20,000 Kilowatt Turbo Alternator in course of erection.

**NATAL CENTRAL UNDERTAKING.**



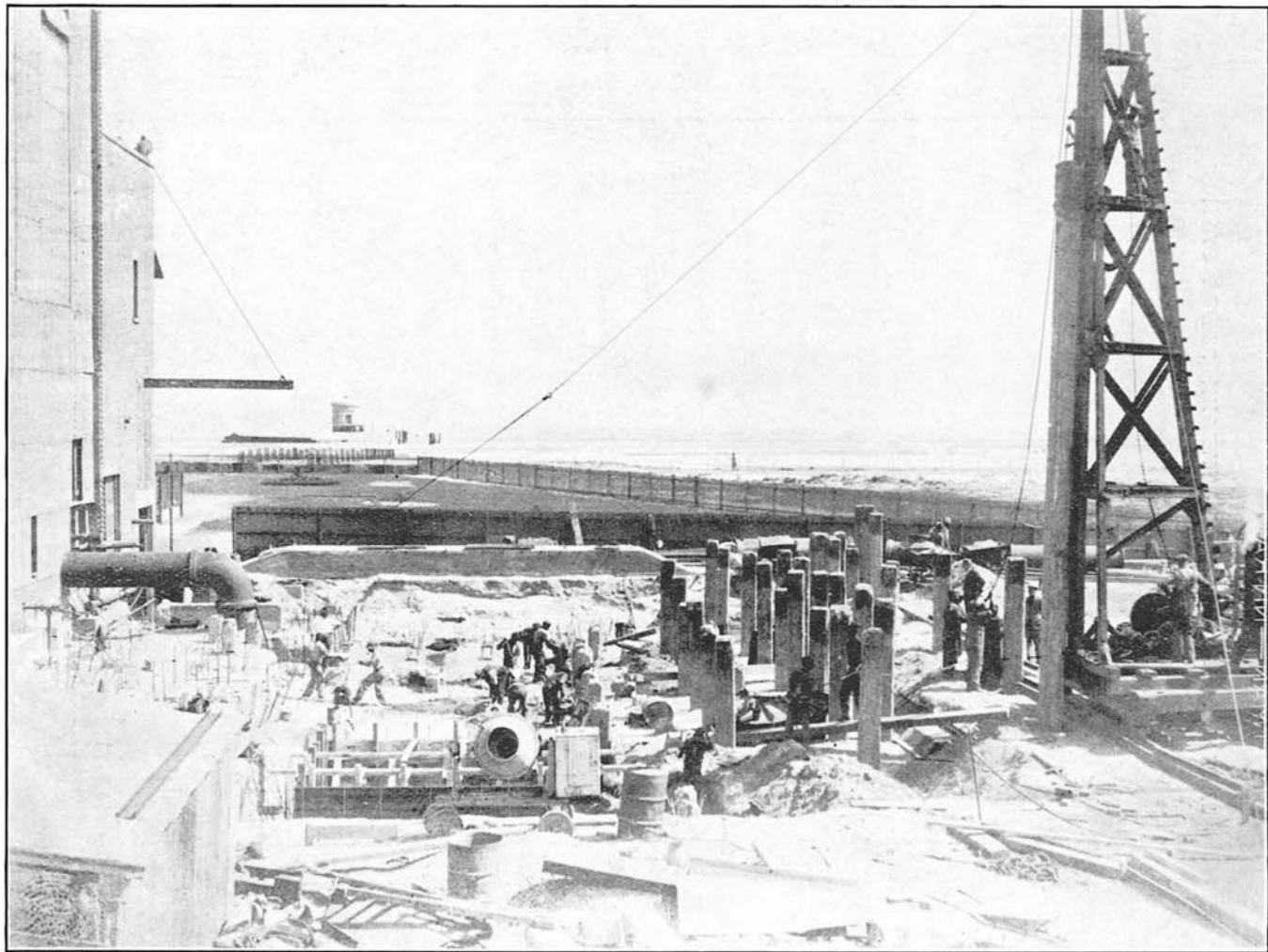
**Daimana-Harrismith Railway Electrification.  
88 Kilovolt Transmission Line on Track Structures.**

WITBANK UNDERTAKING—WITBANK POWER STATION.



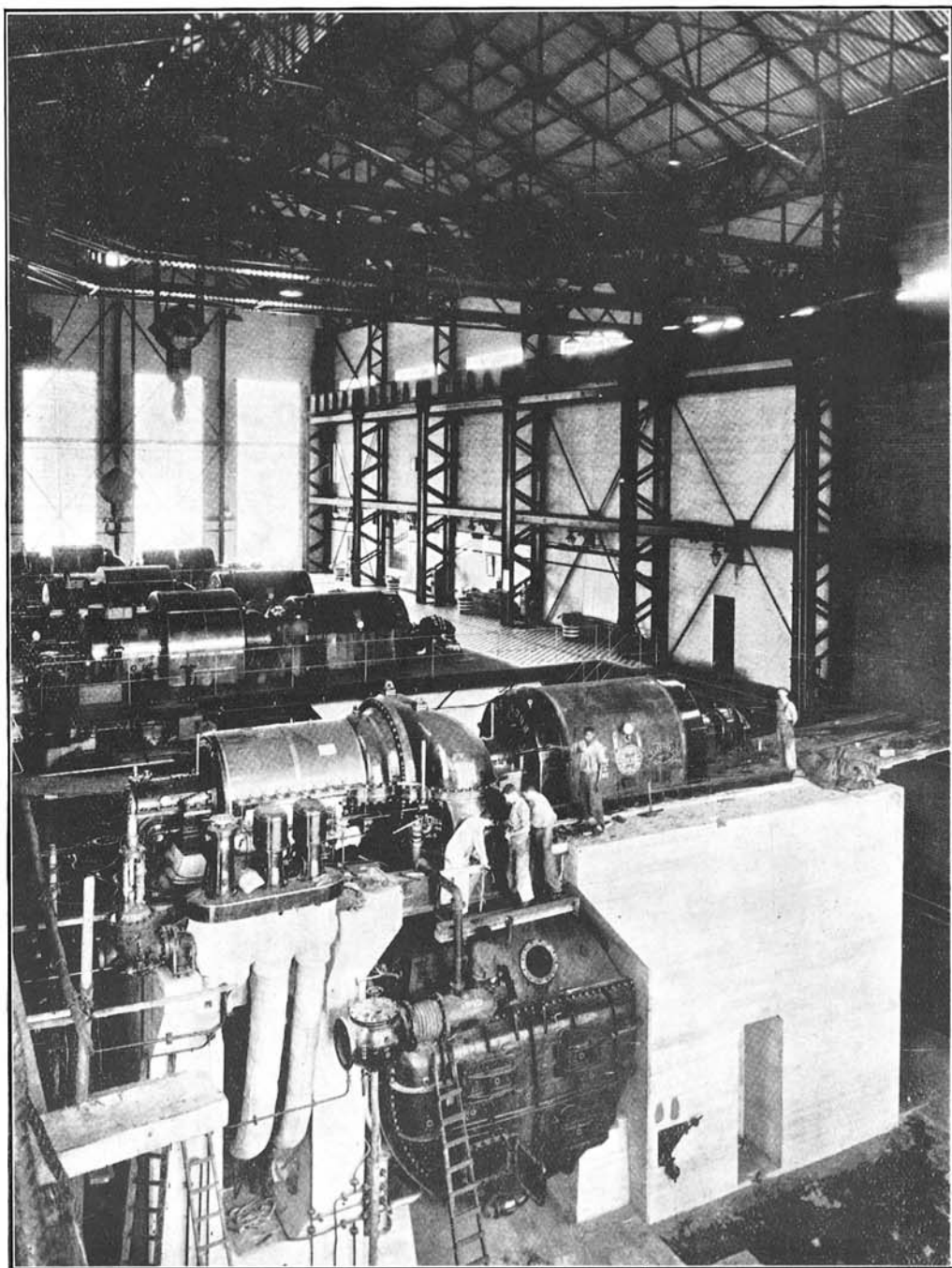
Extension of Boiler House to accommodate Four Boilers.

**CAPETOWN UNDERTAKING—SALT RIVER POWER STATION.**



**Piling and foundations for extension of Engine Room to accommodate two 20,000 Kilowatt Turbo Alternators.**

DURBAN UNDERTAKING—CONGELLA POWER STATION.



20,000 Kilowatt Turbo Alternator in course of erection.



## ANNEXURE "A": ACCOUNTS.

The Commission submits for the year 1933, as Annexure "A" to this Report:—

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 £750,000  
Loan.

Account No. 2: Redemption Fund Account £500,000  
Loan.

Account No. 3: Redemption Fund Account £2,500,000  
Loan.

Account No. 4: Reserve Fund Account

Revenue and Expenditure Accounts in respect of:—

Account No. 5: Natal Central Undertaking.

Account No. 6: Witbank Undertaking.

Account No. 7: Capetown Undertaking.

Account No. 8: Durban Undertaking.

Account No. 9: Sabie Undertaking.

## THE REPORT OF THE AUDITORS.

P.O. Box 2636,  
Johannesburg,  
April 30th 1934.

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 December 31st 1933 and have to report as follows:—

### REDEMPTION FUND.

(1) Up to the end of the year 1932 the legal obligations of the Commission to provide a fund for the redemption of loans was confined to a provision for repayment of Loan No. 1 of £3,000,000 from the Government of the Union—such loan being redeemable not later than December 31st 1954.

During 1933 the Commission raised two loans viz:—

- (a) Loan No. 3 for £500,000 @ 4½% due for repayment at par on 31st May 1963. This loan was required for Capital Expenditure on extensions.
- (b) Loan No. 4 for £2,500,000 @ 4½% repayable at par on June 15th 1953. This loan was raised as to £2,250,000 for repayment of portion of Loan No. 1 and as to £250,000 for Capital Expenditure on extensions.

**Loan No. 1.**—In the case of Loan No. 1 £2,250,000 out of £3,000,000 was duly repaid on 15th June 1933. The provision for redemption up to that date amounted to £388,786 10s. 6d. being in excess of the statutory requirements. This surplus mainly arises owing to the fact that provision had been made by certain undertakings for repayment of temporary advances from the Union Government. These provisions were made prior to January 1st 1930 the date on which the temporary advances were consolidated into two loans Nos. 1 and 2.

On the repayment of three quarters of the loan the Commission could have dealt with the then existing Redemption Fund in two ways:—

- (1) To realise three quarters of the investments of the fund and apply the proceeds in part repayment thus reducing the sum to be borrowed to repay the whole.
- (2) To pay off the whole amount with new money borrowed and to apply three quarters of the existing provision towards the Redemption Fund of the new money so borrowed.

The Commission adopted the latter course and three quarters of the above mentioned amount of £388,786 10s. 6d. standing to the credit of the Redemption Fund of the No. 1 Loan or £291,589 17s. 10d. has been transferred to the account of the Redemption Fund applicable to the No. 4 Loan.

The remaining quarter with subsequent additions amounted at the end of 1933 to £111,928 9s. 2d. and, as it includes portion of the surplus mentioned above, is more than adequate provision to maintain the redemption fund account of the balance of the No. 1 Loan.

**Loan No. 2.**—In terms of Section 3 (6) of the Financial Adjustments Act 1930 no provision for the redemption of Loan No. 2 of £5,000,000 from the Government can be made.

**Loan No. 3.**—The provision for redemption of No. 3 Loan is adequate.

**Loan No. 4.**—In the case of Loan No. 4 as mentioned above, the sum of £291,589 17s. 10d. has been transferred to this account of the Redemption Fund being the proportion of the fund of the No. 1 Loan applicable to the sum repaid out of Loan No. 4. Loan No. 4, being repayable in approximately twenty years, of which only six months had expired at the date of the Balance Sheet, it is obvious that the amount of £291,589 17s. 10d., as subsequently increased by regular contributions to £326,635 6s. 8d., is considerably more than the provision required at December 31st 1933. The undertakings of the Commission, which contributed to this account of the Redemption Fund, are primarily liable to provide the necessary amount to redeem the portion of Loan No. 4 utilised to repay moneys outlayed on their behalf. The amount of the Fund transferred (already contributed by these undertakings) will be placed in relief of their further obligations. The action of the Commission therefore in causing this transfer to be made does not prejudice the position of the Undertakings as between themselves.

The cost of raising Loan No. 4 amounted to  $1\frac{1}{2}\%$ . Of this 1% was offset by the premium of 1% at which the loan was issued. The remaining  $\frac{1}{2}\%$  amounted to £12,500. Of this sum the proportion applicable to the amount paid off No. 1 Loan, or £11,250, has been applied against the proportion of the Redemption Fund transferred from No. 1 to No. 4 Loan. At first sight it would appear to be incorrect to charge the cost of raising a loan for the repayment of an existing loan against the Redemption Fund and the Electricity Act and Schedule thereto, governing the raising and repayment of loan funds, do not contemplate or provide for the raising of such a loan. In view, however, of the special circumstances attaching to the whole position we consider that the charge of the cost of raising this loan against the redemption fund is not an improper or unfair proceeding and in fact in practice the best method of dealing with the present exceptional case.

Following on the transfer of portion of the Redemption Fund from No. 1 to No. 4 Loan, relative proportions of specific investments on account of the Redemption Fund have also been transferred. In verifying and scrutinising the investments made and allocated to the various sections of the Redemption Fund we find that certain investments in the Commission's own stock have been made in the case of No. 4 Loan, where the currency of the investment is longer than

that of the loan itself. In terms of clause 13 (c) of the Schedule to the Electricity Act the Commission is precluded from selling any investments in its own stock made for the Redemption Fund. The position is therefore that some of the investments as at present constituted for the No. 4 Loan will not be available at the date the loan matures. In view, however, of the fact that since December 31st 1933, the Commission has raised a further large loan with a long term currency, we think that the position can be got over by gradually exchanging the investments concerned for investments which will in due course be made for the redemption of the new long term loan.

#### DEPRECIATION AND OBSOLESCENCE OF PLANT.

(2) In the preceding paragraph of this Report we have dealt with the question of the position of the different portions of the Redemption Fund applicable to the various loans. We consider that in the case of Undertakings whose funds have been drawn from Loans Nos. 1, 3 and 4, the provisions for redemption of these loans when taken in conjunction with the amounts appropriated to Reserve Fund for these Undertakings constitute a sufficient provision for depreciation and obsolescence of the Plant etc of these Undertakings.

In the case, however, of Loan No. 2 of £5,000,000 (the whole of which was raised from the Government,) the Commission is prevented by Section 3 of the Financial Adjustments Act 1930 from making any provision for redemption of this loan until 1940. During the year 1933 therefore no amounts for redemption of this loan have been provided. The Undertakings whose funds have been derived from this loan have made substantial contributions towards the Reserve Fund during the year but we do not consider that these appropriations to Reserve Fund alone can be regarded as adequate to provide for general depreciation and obsolescence in the case of the two Undertakings concerned so far as the year 1933 is concerned.

Since December 31st 1933 the Commission has raised a new loan of £6,750,000 of which £5,000,000 has been definitely earmarked to pay off Loan No. 2 of this amount. Provision for Redemption of this new loan will be obligatory in the future.

#### HEAD OFFICE ADMINISTRATION AND ENGINEERING EXPENSES.

(3) As contemplated in Section II (2) of the Electricity Act the Commission has, as previously, made an allocation of overhead and administration charges as between the various Undertakings.

Certain small alterations have been made in the basis of the allocation as between two of the Undertakings during the year.

#### GENERAL.

(4) As the result of our audit of the Books and Accounts of the Commission for the year 1933 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 results of trading.
- (c) Due provision has been made for the reduction and repayment of moneys borrowed in view of the circumstances as explained in this Report.
- (d) The value of the 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 Commission.

Incorporated under the

Electricity Act, 1922.

**BALANCE SHEET at**

**31st DECEMBER, 1933.**

<b>Loan Capital</b> ... ..	£8,750,000 0 0
Loan No. 1: Government of the Union of South Africa, redeemable not later than 31st December, 1954 ... ..	£3,000,000 0 0
<i>Less</i> —Repaid during 1933 ... ..	2,250,000 0 0
	750,000 0 0
Loan No. 2: Government of the Union of South Africa, redeemable not later than 31st December, 1979 ... ..	5,000,000 0 0
Loan No. 3: 4½% Local Registered Stock, 1953/63 ... ..	500,000 0 0
Loan No. 4: 4½% Local Registered Stock, 1953 ... ..	2,500,000 0 0
	2,017 2 6
<b>Interest Accrued on Loan Capital</b> ... ..	42,227 4 10
<b>Sundry Creditors and Credit Balances</b> ... ..	46,928 4 7
<b>Pension Fund</b> ... ..	444,779 19 7
<b>Redemption Fund</b> ... ..	
(As per Accounts Nos. 1 to 3)	
Loan No. 1 ... ..	111,928 9 2
Loan No. 3 ... ..	6,216 3 9
Loan No. 4 ... ..	326,635 6 8
	591,373 3 3
<b>Reserve Fund</b> ... ..	5,878 0 8
(As per Account No. 4)	
<b>Balance on Revenue Accounts</b> ... ..	5,878 0 8
(As per Accounts Nos. 5 to 9)	
Natal Central Undertaking ... ..	4,477 0 3
Witbank Undertaking ... ..	2,967 11 8
Durban Undertaking ... ..	6,548 8 6
Sabie Undertaking ... ..	59 1 6
	14,052 1 11
<i>Less</i> —Capetown Undertaking ... ..	8,174 1 3
	£9,883,203 15 5

NOTE.—In addition to the liabilities shown above, the Commission is committed to the extent of approximately £350,000 for expenditure on Capital Account; also £3,100 chargeable against Reserve Fund.

H. J. VAN DER BIJL, Chairman.

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Johannesburg,  
28th March, 1934.

<b>Expenditure on Capital Account—</b> (As per Schedule attached.)	
Land and Rights ... ..	£80,173 9 5
Buildings and Civil Works ... ..	2,430,518 17 1
Machinery and Plant ... ..	5,994,965 18 9
Miscellaneous Equipment ... ..	132,232 14 7
	£8,637,890 19 10
<i>Less</i> —Net Revenue during Construction ... ..	145,490 12 3
Provision made prior to Financial Adjustments Act, 1930, for repayment of advances, appropriated in reduction of Capital Expenditure ... ..	218,750 12 10
	364,241 5 1
	8,273,649 14 9
<b>Stores and Materials</b> ... ..	99,330 15 8
<b>Sundry Debtors and Debit Balances</b> ... ..	109,729 18 0
<b>Investments</b> ... ..	241,395 17 3
Cash on deposit at interest ... ..	237,000 0 0
Temporary Loan ... ..	1,700 0 0
Interest Accrued ... ..	2,695 17 3
	117,658 0 9
<b>Cash on Current Account and on Hand</b> ... ..	41,773 6 0
<b>Investment of Pension Fund</b> ... ..	
Amount invested in Municipal and Electricity Supply Commission Stocks ... ..	41,620 0 0
Interest Accrued ... ..	153 6 0
	426,583 7 11
<b>Investment of Redemption Fund</b> ... ..	
(As per Statements attached.)	
Loan No. 1 ... ..	106,214 9 9
Loan No. 3 ... ..	1,988 1 4
Loan No. 4 ... ..	318,380 16 10
	573,082 15 1
<b>Investment of Reserve Fund</b> ... ..	
Amount invested in Stocks of the Government of the Union of South Africa, Municipalities and Electricity Supply Commission; also Debentures guaranteed by the Government of the Union of South Africa ... ..	569,470 5 3
Interest Accrued ... ..	3,612 9 10
	£9,883,203 15 5

Referred to in our Report of 30th April, 1934.

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

# Electricity Supply Commission.

## SCHEDULE OF EXPENDITURE ON CAPITAL ACCOUNT to 31st December, 1933

Expenditure in connection with Electricity Undertakings.	Total to 31st December, 1932.	Year ended 31st December, 1933.	Total to 31st December, 1933.
<b>NATAL CENTRAL UNDERTAKING:</b>			
Land and Rights ... ..	£18,521 19 5	Cr. —	£18,521 19 5
Buildings and Civil Works ... ..	791,836 1 11	£21 17 5	791,814 4 6
Machinery and Plant ... ..	2,639,937 16 5	7,257 15 0	2,647,195 11 5
Miscellaneous Equipment ... ..	24,607 1 6	270 7 9	24,877 9 3
	£3,474,902 19 3	£7,506 5 4	£3,482,409 4 7
<i>Less—</i>			
Net Revenue during Construction ... ..	2,210 10 6	—	2,210 10 6
Provision made prior to Financial Adjustments Act, 1930, for repayment of Advances, appropriated in reduction of Capital Expenditure	200,767 19 10	—	200,767 19 10
	<b>£3,271,924 8 11</b>	<b>£7,506 5 4</b>	<b>£3,279,430 14 3</b>
<b>WITBANK UNDERTAKING:</b>			
Land and Rights ... ..	£9,035 19 2	Cr. —	£9,035 19 2
Buildings and Civil Works ... ..	572,998 19 1	£1,293 1 1	571,705 18 0
Machinery and Plant ... ..	1,454,970 0 11	11,979 15 5	1,466,949 16 4
Miscellaneous Equipment ... ..	59,484 18 8	6,625 9 6	52,859 9 2
	£2,096,489 17 10	£4,061 4 10	£2,100,551 2 8
<i>Less—</i> Net Revenue during Construction ... ..	103,448 14 11	9 13 5	103,458 8 4
	<b>£1,993,041 2 11</b>	<b>£4,051 11 5</b>	<b>£1,997,092 14 4</b>
<b>CAPETOWN UNDERTAKING:</b>			
Land and Rights ... ..	£21,763 1 8	Cr. £653 6 2	£22,416 7 10
Buildings and Civil Works ... ..	630,341 11 8	20,968 14 9	651,310 6 5
Machinery and Plant ... ..	1,040,610 6 6	178,107 18 11	1,218,718 5 5
Miscellaneous Equipment ... ..	37,898 9 9	301 10 2	37,596 19 7
	£1,730,613 9 7	£199,428 9 8	£1,930,041 19 3
<i>Less—</i>			
Net Revenue during Construction ... ..	15,575 2 3	—	15,575 2 3
Provision made prior to Financial Adjustments Act, 1930, for repayment of Advances, appropriated in reduction of Capital Expenditure	17,982 13 0	—	17,982 13 0
	<b>£1,697,055 14 4</b>	<b>£199,428 9 8</b>	<b>£1,896,484 4 0</b>
<b>DURBAN UNDERTAKING:</b>			
Land and Rights ... ..	£29,689 3 0	Cr. —	£29,689 3 0
Buildings and Civil Works ... ..	349,092 7 1	£1,295 12 9	350,387 19 10
Machinery and Plant ... ..	610,881 17 6	13,738 17 4	624,620 14 10
Miscellaneous Equipment ... ..	6,709 4 11	19 5 9	6,728 10 8
	£996,372 12 6	£15,053 15 10	£1,011,426 8 4
<i>Less—</i> Net Revenue during Construction ... ..	15,121 15 4	—	15,121 15 4
	<b>£981,250 17 2</b>	<b>£15,053 15 10</b>	<b>£996,304 13 0</b>
<b>SABIE UNDERTAKING:</b>			
Land and Rights ... ..	£510 0 0	Cr. —	£510 0 0
Buildings and Civil Works ... ..	65,300 8 4	—	65,300 8 4
Machinery and Plant ... ..	37,481 10 9	—	37,481 10 9
Miscellaneous Equipment ... ..	2,792 15 5	£284 8 7	3,077 4 0
	£106,084 14 6	£284 8 7	£106,369 3 1
<i>Less—</i> Net Revenue during Construction ... ..	9,124 15 10	—	9,124 15 10
	<b>£96,959 18 8</b>	<b>£284 8 7</b>	<b>£97,244 7 3</b>
<b>HEAD OFFICE:</b>			
Furniture and Office Equipment ... ..	£7,203 5 7	Cr. £110 3 8	£7,093 1 11
<b>SUMMARY:</b>			
Land and Rights ... ..	£79,520 3 3	Cr. £653 6 2	£80,173 9 5
Buildings and Civil Works ... ..	2,409,569 8 1	20,949 9 0	2,430,518 17 1
Machinery and Plant ... ..	5,783,881 12 1	211,084 6 8	5,994,965 18 9
Miscellaneous Equipment ... ..	138,695 15 10	6,463 1 3	132,232 14 7
	£8,411,666 19 3	£226,224 0 7	£8,637,890 19 10
<i>Less—</i>			
Net Revenue during Construction ... ..	145,480 18 10	9 13 5	145,490 12 3
Provision made prior to Financial Adjustments Act, 1930, for repayment of Advances, appropriated in reduction of Capital Expenditure	218,750 12 10	—	218,750 12 10
	<b>£8,047,435 7 7</b>	<b>£226,214 7 2</b>	<b>£8,273,649 14 9</b>

# Electricity Supply Commission.

STATEMENT SHOWING DETAILS OF INVESTMENTS ON BEHALF OF THE  
REDEMPTION FUND IN RESPECT OF THE £750,000 GOVERNMENT  
OF THE UNION OF SOUTH AFRICA LOAN (LOAN No. 1)  
AS AT 31st DECEMBER, 1933.

£8,710	Union of South Africa 5% (10 year) Loan, 1935 ... ..	£8,699	2	3
£46,500	Union of South Africa 4½% Local Registered Stock, 1953 ... ..	43,755	0	0
£10,000	South African Iron and Steel Industrial Corporation, Limited, 5% Guaranteed First Mortgage Registered Debentures, 1946/71 ... ..	9,975	0	0
£17,500	Electricity Supply Commission 4½% Local Registered Stock, 1953/63	17,325	0	0
£25,100	Electricity Supply Commission 4½% Local Registered Stock, 1953 ... ..	25,111	7	6
	Interest Accrued ... ..	1,349	0	0
		£106,214	9	9

STATEMENT SHOWING DETAILS OF INVESTMENTS ON BEHALF OF THE  
REDEMPTION FUND IN RESPECT OF THE £500,000 ELECTRICITY  
SUPPLY COMMISSION 4½% LOCAL REGISTERED STOCK, 1953/63  
(LOAN No. 3) AS AT 31st DECEMBER, 1933.

£2,000	Electricity Supply Commission 4½% Local Registered Stock, 1953/63	£1,980	0	0
	Interest Accrued ... ..	8	1	4
		£1,988	1	4

STATEMENT SHOWING DETAILS OF INVESTMENTS ON BEHALF OF THE  
REDEMPTION FUND IN RESPECT OF THE £2,500,000 ELECTRICITY  
SUPPLY COMMISSION 4½% LOCAL REGISTERED STOCK, 1953  
(LOAN No. 4) AS AT 31st DECEMBER, 1933.

£26,200	Union of South Africa 5% (10 year) Loan, 1935 ... ..	£26,167	5	0
£139,500	Union of South Africa 4½% Local Registered Stock, 1953 ... ..	131,265	0	0
£30,000	South African Iron and Steel Industrial Corporation, Limited, 5% Guaranteed First Mortgage Registered Debentures, 1946/71	29,925	0	0
£52,500	Electricity Supply Commission 4½% Local Registered Stock, 1953/63	51,975	0	0
£75,000	Electricity Supply Commission 4½% Local Registered Stock, 1953 ... ..	75,000	0	0
	Interest Accrued ... ..	4,048	11	10
		£318,380	16	10

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Johannesburg,  
28th March, 1934.



# Electricity Supply Commission.

Account No. 1.

Dr. Redemption Fund Account for the  
in respect of £750,000 Government of the Union of South Africa Loan

Cr. Year ended 31st December, 1933,  
(Loan No. 1) redeemable not later than the 31st December, 1954.

<b>To</b>	<b>Amount Transferred to Redemption Fund Account,</b>		
	<b>Loan No. 4 ... ..</b>		<b>£291,589 17 10</b>
	Witbank Undertaking ... ..		£220,246 11 0
	Durban Undertaking ... ..		56,386 19 8
	Sabie Undertaking ... ..		14,649 14 0
	Head Office ... ..		306 13 2
	<b>„ Balance as per Balance Sheet</b>		<b>111,928 9 2</b>
	Witbank Undertaking ... ..		83,434 11 3
	Durban Undertaking ... ..		22,574 15 4
	Sabie Undertaking ... ..		5,790 2 2
	Head Office ... ..		129 0 5
			<b>£403,518 7 0</b>

<b>By</b>	<b>Balance at 31st December, 1932, brought forward ...</b>		<b>£354,001 16 7</b>
	Witbank Undertaking ... ..		£270,546 10 10
	Durban Undertaking ... ..		65,150 8 8
	Sabie Undertaking ... ..		17,961 5 4
	Head Office ... ..		343 11 9
	<b>„ Amounts Contributed during the Year out of Revenue</b>		<b>43,349 10 8</b>
	Witbank Undertaking ... ..		28,617 5 2
	Durban Undertaking ... ..		12,695 19 9
	Sabie Undertaking ... ..		1,950 5 7
	Head Office ... ..		86 0 2
	<b>„ Nett Proceeds of Sales of Fixed Property</b>		<b>258 16 8</b>
	Witbank Undertaking ... ..		28 16 8
	Sabie Undertaking ... ..		230 0 0
	<b>„ Profit on Sales of Investments</b>		<b>1,406 9 4</b>
	<b>„ Interest Earned on Investments</b>		<b>4,501 13 9</b>
	Witbank Undertaking ... ..		3,418 6 3
	Durban Undertaking ... ..		851 10 6
	Sabie Undertaking ... ..		227 3 3
	Head Office ... ..		4 13 9
			<b>£403,518 7 0</b>

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Johannesburg,  
28th March, 1934.

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, as amended by Section 3 of the Financial Adjustments Act, 1930, in terms of our report dated 30th April, 1934.

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

# Electricity Supply Commission.

Account No. 2.

Dr. Redemption Fund Account for the  
in respect of £500,000 Electricity Supply Commission

Year ended 31st December, 1933,  
 4½% Local Registered Stock 1953/63 (Loan No. 3).  
 Cr.

To Balance as per Balance Sheet	...	...	...		£6,216 3 9
Natal Central Undertaking	...	...	...	£17 8 3	
Capetown Undertaking	...	...	...	1,788 19 11	
Durban Undertaking	...	...	...	4,409 15 7	
				£6,216 3 9	
				£6,216 3 9	

By Balance at 31st December, 1932, transferred from	...	...	...		
Provision for Redemption Account	...	...	...		£1,720 16 3
Durban Undertaking	...	...	...	£1,720 16 3	
				£1,720 16 3	
„ Amounts Contributed during the Year out of Revenue					4,410 3 4
Natal Central Undertaking	...	...	...	17 8 3	
Capetown Undertaking	...	...	...	1,787 1 11	
Durban Undertaking	...	...	...	2,605 13 2	
				4,410 3 4	
„ Interest Earned on Investments	...	...	...		85 4 2
Capetown Undertaking	...	...	...	1 18 0	
Durban Undertaking	...	...	...	83 6 2	
				85 4 2	
				£6,216 3 9	

A. E. HARTE, C.A. (S.A.), 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.

Johannesburg,  
 28th March, 1934.

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

# Electricity Supply Commission.

Account No. 3.

Dr.

Redemption Fund Account for the  
in respect of £2,500,000 Electricity Supply Commission

Year ended 31st December, 1933,

Cr.

4½% Local Registered Stock 1953 (Loan No. 4).

<b>To Balance as per Balance Sheet</b>	...	...	...		£326,635 6 8
Witbank Undertaking	...	...	...	£242,417 2 11	
Durban Undertaking	...	...	...	67,646 6 11	
Sabie Undertaking	...	...	...	16,171 6 5	
Head Office	...	...	...	400 10 5	
					£326,635 6 8

<b>By Amount Transferred from Redemption Fund Account,</b>					
<b>Loan No. 1</b>	...	...	...	...	£291,589 17 10
<i>Less—Proportion of Cost of Raising Loan No. 4</i>	...	...	...	...	11,250 0 0
					£280,339 17 10
Witbank Undertaking	...	...	...	...	211,749 1 10
Durban Undertaking	...	...	...	...	54,211 9 8
Sabie Undertaking	...	...	...	...	14,084 9 10
Head Office	...	...	...	...	294 16 6
<b>„ Amounts Contributed during the Year out of Revenue</b>					32,970 6 6
Witbank Undertaking	...	...	...	...	20,662 17 3
Durban Undertaking	...	...	...	...	10,796 5 7
Sabie Undertaking	...	...	...	...	1,420 12 5
Head Office	...	...	...	...	90 11 3
<b>„ Interest Earned on Investments</b>	...	...	...	...	13,325 2 4
Witbank Undertaking	...	...	...	...	10,005 3 10
Durban Undertaking	...	...	...	...	2,638 11 8
Sabie Undertaking	...	...	...	...	666 4 2
Head Office	...	...	...	...	15 2 8
					£326,635 6 8

A. E. HARTE, C.A. (S.A.), 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, in terms of our report dated 30th April, 1934.

Johannesburg,  
28th March, 1934.

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

# Electricity Supply Commission.

Dr.

Reserve Fund Account for the Year ended 31st December, 1933.

Cr.

To Expenditure during the Year on Replacements and Betterment ... ..	£7,355	3	10
Natal Central Undertaking ... ..	£1,421	1	11
Witbank Undertaking ... ..	923	15	7
Capetown Undertaking ... ..	1,876	18	8
Durban Undertaking ... ..	3,133	7	8
„ Balance as per Balance Sheet ... ..	591,373	3	3
Natal Central Undertaking ... ..	276,875	16	3
Witbank Undertaking ... ..	141,842	18	7
Capetown Undertaking ... ..	111,625	16	9
Durban Undertaking ... ..	54,194	15	4
Sabie Undertaking ... ..	6,833	16	4
	£598,728	7	1

By Balance at 31st December, 1932, brought forward ... ..	£465,408	1	1
Natal Central Undertaking ... ..	£218,609	16	4
Witbank Undertaking ... ..	114,663	1	5
Capetown Undertaking ... ..	86,090	11	10
Durban Undertaking ... ..	40,116	9	0
Sabie Undertaking ... ..	5,928	2	6
„ Amounts set aside during the Year as per Revenue Accounts ... ..	108,260	16	11
Natal Central Undertaking ... ..	47,934	13	4
Witbank Undertaking ... ..	22,000	0	0
Capetown Undertaking ... ..	22,726	3	7
Durban Undertaking ... ..	15,000	0	0
Sabie Undertaking ... ..	600	0	0
„ Interest Earned on Investments ... ..	25,059	9	1
	£598,728	7	1

Johannesburg,  
28th March, 1934.

A. E. HARTE, C.A. (S.A.), Chief Accountant.

# Electricity Supply Commission.

Account No. 5.

## NATAL CENTRAL UNDERTAKING.

Dr. Revenue Account for the Year

ended 31st December, 1933.

Cr.

Generation of Electricity.		
To Operation—		
Fuel ... ..	£48,560 15 3	
Water, Oil, Waste and Stores ... ..	822 18 9	
Salaries and Wages ... ..	15,468 18 1	
Other Expenses ... ..	215 2 10	
„ Maintenance—		
Stores ... ..	3,768 6 1	
Salaries and Wages ... ..	9,580 5 3	
Other Expenses ... ..	502 1 5	
„ Electricity Purchased ... ..		£78,918 7 8
		2 12 2
Distribution of Electricity.		
„ Operation and Maintenance—		
Stores ... ..	4,400 14 7	
Salaries and Wages ... ..	15,293 11 10	
Other Expenses ... ..	2,078 8 4	
		21,772 14 9
General Expenses.		
„ Local Administration and Technical Management ... ..	5,913 9 5	
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.) ... ..	8,529 14 9	
„ Head Office Administration and General Expenses ... ..	8,184 5 5	
„ Engineering Expenses ... ..	4,302 12 0	
		26,930 1 7
„ Interest ... ..		127,623 16 2
„ Redemption Fund (Loan No. 3) ... ..		168,865 10 11
„ Amount set aside to Reserve Fund ... ..		17 8 3
„ Reserve Fund Adjustment to 31st December, 1932 ... ..	47,934 13 4	
	732 14 1	
„ Balance carried down ... ..		48,667 7 5
		3,742 11 1
		£348,916 13 10
To Balance as per Balance Sheet ... ..	£4,477 0 3	
		£4,477 0 3

By Sales of Electricity—		
Traction Supplies ... ..	£288,640 11 3	
Bulk Supplies ... ..	39,672 15 9	
Industrial Supplies ... ..	13,269 15 3	
Domestic and Lighting Supplies ... ..	3,419 13 4	
		£345,002 15 7
„ Other Revenue ... ..		3,913 18 3

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Referred to in our Report of 30th April, 1934.

Johannesburg,  
28th March, 1934.

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

# Electricity Supply Commission.

## WITBANK UNDERTAKING.

Dr.

Revenue Account for the Year

ended 31st December, 1933.

Cr.

### Generation of Electricity.

To Operation—				
Fuel ... ..	£70,783	5	11	
Water, Oil, Waste and Stores ... ..	5,139	9	3	
Salaries and Wages ... ..	21,733	0	6	
Other Expenses ... ..	961	1	6	
„ Maintenance—				
Stores ... ..	10,668	17	1	
Salaries and Wages ... ..	12,397	17	4	
Other Expenses ... ..	6,359	10	9	
	£128,043	2	4	

### Distribution of Electricity.

„ Operation and Maintenance—				
Stores ... ..	1,455	14	5	
Salaries and Wages ... ..	2,641	6	5	
Other Expenses ... ..	223	10	3	
	4,320	11	1	

### General Expenses.

„ Local Administration and Technical Management ...	7,364	17	10	
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.) ... ..	6,031	19	10	
„ Administration, Engineering and General Expenses of Operating Party (The Victoria Falls and Transvaal Power Company, Limited) ... ..	6,637	10	0	
„ Head Office Administration and General Expenses ...	3,773	16	4	
„ Engineering Expenses ... ..	1,983	19	1	
	25,792	3	1	
	158,155	16	6	
	100,848	13	5	
„ Interest ... ..				
„ Redemption Fund: Loan No. 1 ... ..	28,617	5	2	
Loan No. 4 ... ..	20,662	17	3	
	49,280	2	5	
„ Amount set aside to Reserve Fund ... ..	22,000	0	0	
	£330,284	12	4	
To Balance brought down ... ..	£3,953	12	11	
„ Balance as per Balance Sheet ... ..	2,967	11	8	
	£6,921	4	7	

### By Sales of Electricity—

Bulk Supplies ... ..	£271,212	10	5	
Industrial Supplies ... ..	47,883	12	8	
Domestic and Lighting Supplies ... ..	4,120	11	3	
	£323,216	14	4	
Less—Proportion applied against Capital Cost of part of Undertaking not in commercial operation		9	13	5
Adjustment in respect of Bulk Supplies for the period prior to 31st December, 1932 ...	925	14	5	
	935	7	10	
„ Other Revenue ... ..				322,281
„ Balance carried down ... ..				4,049
				12
				11
				3,953
				12
				11

By Balance at 31st December, 1932, brought forward ...	£6,921	4	7	
	£6,921	4	7	

Johannesburg,  
28th March, 1934.

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Referred to in our Report of 30th April, 1934.

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

# Electricity Supply Commission.

## CAPETOWN UNDERTAKING.

### Revenue Account for the Year ended 31st December, 1933.

Dr.

Cr.

#### Generation of Electricity.

To Operation—			
Fuel ... ..	£102,345 16 10		
Water, Oil, Waste and Stores ... ..	2,169 14 7		
Salaries and Wages ... ..	9,337 13 8		
Other Expenses ... ..	620 10 7		
„ Maintenance—			
Stores ... ..	4,141 12 0		
Salaries and Wages ... ..	7,256 1 4		
Other Expenses ... ..	1,988 4 11		
	£127,859 13 11		

#### Distribution of Electricity.

„ Operation and Maintenance—			
Stores ... ..	1,343 13 0		
Salaries and Wages ... ..	10,224 0 1		
Other Expenses ... ..	3,028 9 3		
	14,596 2 4		

#### General Expenses.

„ Local Administration and Technical Management ...	6,252 13 7		
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.) ... ..	7,784 3 11		
„ Head Office Administration and General Expenses ...	6,944 4 7		
„ Engineering Expenses ... ..	3,650 13 9		
	24,631 15 10		
	167,087 12 1		
„ Interest ... ..	86,902 1 10		
„ Redemption Fund (Loan No. 3) ... ..	1,787 1 11		
„ Amount set aside to Reserve Fund ... ..	22,726 3 7		
	£278,502 19 5		

To Balance at 31st December, 1932, brought forward ...	£3,925 6 3		
„ Balance brought down ... ..	4,248 15 0		
	£8,174 1 3		

#### By Sales of Electricity—

Traction Supplies ... ..	£129,085 6 10		
Bulk Supplies ... ..	24,427 6 8		
Industrial Supplies ... ..	58,970 12 9		
Domestic and Lighting Supplies ... ..	15,764 8 8		
Power Interchanged ... ..	44,100 3 10		
	£272,347 18 9		
„ Other Revenue ... ..	1,906 5 8		
„ Balance carried down ... ..	4,248 15 0		

By Balance as per Balance Sheet ... ..	£8,174 1 3		
	£8,174 1 3		

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Referred to in our Report of 30th April, 1934.

Johannesburg,  
28th March, 1934.

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

# Electricity Supply Commission.

## DURBAN UNDERTAKING.

### Revenue Account for the Year ended 31st December, 1933.

Dr.

Cr.

<b>Generation of Electricity.</b>			
To Operation—			
Fuel ... ..	£67,291	1	2
Water, Oil, Waste and Stores ... ..	1,084	7	7
Salaries and Wages ... ..	12,270	16	0
Other Expenses ... ..	572	15	7
„ Maintenance—			
Stores ... ..	4,558	7	11
Salaries and Wages ... ..	9,315	2	0
Other Expenses ... ..	1,486	12	0
		£96,579	2 3
<b>General Expenses.</b>			
„ Local Administration and Technical Management ...	3,519	9	2
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.) ... ..	3,406	17	6
„ Head Office Administration and General Expenses ...	6,448	4	4
„ Engineering Expenses ... ..	3,796	12	7
		17,171	3 7
		113,750	5 10
„ Interest ... ..		49,266	7 7
„ Redemption Fund—			
Loan No. 1 ... ..	12,695	19	9
Loan No. 3 ... ..	2,605	13	2
Loan No. 4 ... ..	10,796	5	7
		26,097	18 6
„ Amount set aside to Reserve Fund ... ..		15,000	0 0
		£204,114	11 11
To Balance brought down ... ..	£827	3	10
„ Balance as per Balance Sheet ... ..	6,548	8	6
		£7,375	12 4
<b>By Sales of Electricity—</b>			
Bulk Supplies ... ..			£202,992 11 0
„ Other Revenue ... ..			294 17 1
„ Balance carried down ... ..			827 3 10
			£204,114 11 11
By Balance at 31st December, 1932, brought forward ...			£7,375 12 4
			£7,375 12 4

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Referred to in our Report of 30th April, 1934.

Johannesburg,  
28th March, 1934.

ALEX. AIKEN & CARTER, B. HALSEY,	} Auditors.
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# Electricity Supply Commission.

## SABIE UNDERTAKING.

Dr. Revenue Account for the Year ended 31st December, 1933.

Cr.

### Generation of Electricity.

To Operation—					
Water, Oil, Waste and Stores	...	...	...	£40	18 10
Salaries and Wages	...	...	...	1,832	9 5
Other Expenses	...	...	...	4	3
,, Maintenance—					
Stores	...	...	...	418	5 2
Salaries and Wages	...	...	...	80	7 10
Other Expenses	...	...	...	15	4 0
				£2,387	9 6
<b>Distribution of Electricity.</b>					
,, Operation and Maintenance—					
Stores	...	...	...	3	16 7
Other Expenses	...	...	...	107	2 9
				110	19 4
<b>General Expenses.</b>					
,, Local Administration and Technical Management				138	6 5
,, General Expenses (including Maintenance of Quarters, Insurance, Pension Fund Contributions, etc.)				199	9 6
,, Head Office Administration and General Expenses				826	13 11
,, Engineering Expenses				434	12 1
				1,599	1 11
				4,097	10 9
				4,876	12 8
,, Interest					
,, Redemption Fund—					
Loan No. 1	...	...	...	1,950	5 7
Loan No. 4	...	...	...	1,420	12 5
				3,370	18 0
,, Amount set aside to Reserve Fund				600	0 0
,, Balance carried down				47	10 2
				£12,992	11 7

### By Sales of Electricity—

Mining Supplies	...	...	...	...	£12,968	19 7
,, Other Revenue	...	...	...	...	23	12 0

To Balance as per Balance Sheet	...	...	...	£59	1 6
				£59	1 6

By Balance at 31st December, 1932, brought forward	...	...	...	...	£11	11 4
,, Balance brought down	...	...	...	...	47	10 2
				£59	1 6	

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Referred to in our Report of 30th April, 1934.

Johannesburg,  
28th March, 1934.

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

## THE REPORT OF THE AUDITORS.

P.O. Box 2636,  
Johannesburg,  
April 30th 1934.

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 December 31st 1933 and have to report as follows:—

### REDEMPTION FUND.

(1) Up to the end of the year 1932 the legal obligations of the Commission to provide a fund for the redemption of loans was confined to a provision for repayment of Loan No. 1 of £3,000,000 from the Government of the Union—such loan being redeemable not later than December 31st 1954.

During 1933 the Commission raised two loans viz:—

- (a) Loan No. 3 for £500,000 @ 4½% due for repayment at par on 31st May 1963. This loan was required for Capital Expenditure on extensions.
- (b) Loan No. 4 for £2,500,000 @ 4½% repayable at par on June 15th 1953. This loan was raised as to £2,250,000 for repayment of portion of Loan No. 1 and as to £250,000 for Capital Expenditure on extensions.

**Loan No. 1.**—In the case of Loan No. 1 £2,250,000 out of £3,000,000 was duly repaid on 15th June 1933. The provision for redemption up to that date amounted to £388,786 10s. 6d. being in excess of the statutory requirements. This surplus mainly arises owing to the fact that provision had been made by certain undertakings for repayment of temporary advances from the Union Government. These provisions were made prior to January 1st 1930 the date on which the temporary advances were consolidated into two loans Nos. 1 and 2.

On the repayment of three quarters of the loan the Commission could have dealt with the then existing Redemption Fund in two ways:—

- (1) To realise three quarters of the investments of the fund and apply the proceeds in part repayment thus reducing the sum to be borrowed to repay the whole.
- (2) To pay off the whole amount with new money borrowed and to apply three quarters of the existing provision towards the Redemption Fund of the new money so borrowed.

The Commission adopted the latter course and three quarters of the above mentioned amount of £388,786 10s. 6d. standing to the credit of the Redemption Fund of the No. 1 Loan or £291,589 17s. 10d. has been transferred to the account of the Redemption Fund applicable to the No. 4 Loan.

The remaining quarter with subsequent additions amounted at the end of 1933 to £111,928 9s. 2d. and, as it includes portion of the surplus mentioned above, is more than adequate provision to maintain the redemption fund account of the balance of the No. 1 Loan.

**Loan No. 2.**—In terms of Section 3 (6) of the Financial Adjustments Act 1930 no provision for the redemption of Loan No. 2 of £5,000,000 from the Government can be made.

**Loan No. 3.**—The provision for redemption of No. 3 Loan is adequate.

**Loan No. 4.**—In the case of Loan No. 4 as mentioned above, the sum of £291,589 17s. 10d. has been transferred to this account of the Redemption Fund being the proportion of the fund of the No. 1 Loan applicable to the sum repaid out of Loan No. 4. Loan No. 4, being repayable in approximately twenty years, of which only six months had expired at the date of the Balance Sheet, it is obvious that the amount of £291,589 17s. 10d., as subsequently increased by regular contributions to £326,635 6s. 8d., is considerably more than the provision required at December 31st 1933. The undertakings of the Commission, which contributed to this account of the Redemption Fund, are primarily liable to provide the necessary amount to redeem the portion of Loan No. 4 utilised to repay moneys outlayed on their behalf. The amount of the Fund transferred (already contributed by these undertakings) will be placed in relief of their further obligations. The action of the Commission therefore in causing this transfer to be made does not prejudice the position of the Undertakings as between themselves.

The cost of raising Loan No. 4 amounted to  $1\frac{1}{2}\%$ . Of this 1% was offset by the premium of 1% at which the loan was issued. The remaining  $\frac{1}{2}\%$  amounted to £12,500. Of this sum the proportion applicable to the amount paid off No. 1 Loan, or £11,250, has been applied against the proportion of the Redemption Fund transferred from No. 1 to No. 4 Loan. At first sight it would appear to be incorrect to charge the cost of raising a loan for the repayment of an existing loan against the Redemption Fund and the Electricity Act and Schedule thereto, governing the raising and repayment of loan funds, do not contemplate or provide for the raising of such a loan. In view, however, of the special circumstances attaching to the whole position we consider that the charge of the cost of raising this loan against the redemption fund is not an improper or unfair proceeding and in fact in practice the best method of dealing with the present exceptional case.

Following on the transfer of portion of the Redemption Fund from No. 1 to No. 4 Loan, relative proportions of specific investments on account of the Redemption Fund have also been transferred. In verifying and scrutinising the investments made and allocated to the various sections of the Redemption Fund we find that certain investments in the Commission's own stock have been made in the case of No. 4 Loan, where the currency of the investment is longer than

that of the loan itself. In terms of clause 13 (c) of the Schedule to the Electricity Act the Commission is precluded from selling any investments in its own stock made for the Redemption Fund. The position is therefore that some of the investments as at present constituted for the No. 4 Loan will not be available at the date the loan matures. In view, however, of the fact that since December 31st 1933, the Commission has raised a further large loan with a long term currency, we think that the position can be got over by gradually exchanging the investments concerned for investments which will in due course be made for the redemption of the new long term loan.

#### DEPRECIATION AND OBSOLESCENCE OF PLANT.

(2) In the preceding paragraph of this Report we have dealt with the question of the position of the different portions of the Redemption Fund applicable to the various loans. We consider that in the case of Undertakings whose funds have been drawn from Loans Nos. 1, 3 and 4, the provisions for redemption of these loans when taken in conjunction with the amounts appropriated to Reserve Fund for these Undertakings constitute a sufficient provision for depreciation and obsolescence of the Plant etc of these Undertakings.

In the case, however, of Loan No. 2 of £5,000,000 (the whole of which was raised from the Government,) the Commission is prevented by Section 3 of the Financial Adjustments Act 1930 from making any provision for redemption of this loan until 1940. During the year 1933 therefore no amounts for redemption of this loan have been provided. The Undertakings whose funds have been derived from this loan have made substantial contributions towards the Reserve Fund during the year but we do not consider that these appropriations to Reserve Fund alone can be regarded as adequate to provide for general depreciation and obsolescence in the case of the two Undertakings concerned so far as the year 1933 is concerned.

Since December 31st 1933 the Commission has raised a new loan of £6,750,000 of which £5,000,000 has been definitely earmarked to pay off Loan No. 2 of this amount. Provision for Redemption of this new loan will be obligatory in the future.

#### HEAD OFFICE ADMINISTRATION AND ENGINEERING EXPENSES.

(3) As contemplated in Section II (2) of the Electricity Act the Commission has, as previously, made an allocation of overhead and administration charges as between the various Undertakings.

Certain small alterations have been made in the basis of the allocation as between two of the Undertakings during the year.

#### GENERAL.

(4) As the result of our audit of the Books and Accounts of the Commission for the year 1933 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 results of trading.
- (c) Due provision has been made for the reduction and repayment of moneys borrowed in view of the circumstances as explained in this Report.
- (d) The value of the 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 Commission.

Incorporated under the

Electricity Act, 1922.

**BALANCE SHEET at**

**31st DECEMBER, 1933.**

<b>Loan Capital</b> ... ..	£8,750,000 0 0
Loan No. 1: Government of the Union of South Africa, redeemable not later than 31st December, 1954 ... ..	£3,000,000 0 0
<i>Less</i> —Repaid during 1933 ... ..	2,250,000 0 0
	750,000 0 0
Loan No. 2: Government of the Union of South Africa, redeemable not later than 31st December, 1979 ... ..	5,000,000 0 0
Loan No. 3: 4½% Local Registered Stock, 1953/63 ... ..	500,000 0 0
Loan No. 4: 4½% Local Registered Stock, 1953 ... ..	2,500,000 0 0
<b>Interest Accrued on Loan Capital</b> ... ..	2,017 2 6
<b>Sundry Creditors and Credit Balances</b> ... ..	42,227 4 10
<b>Pension Fund</b> ... ..	46,928 4 7
<b>Redemption Fund</b> ... ..	444,779 19 7
(As per Accounts Nos. 1 to 3)	
Loan No. 1 ... ..	111,928 9 2
Loan No. 3 ... ..	6,216 3 9
Loan No. 4 ... ..	326,635 6 8
<b>Reserve Fund</b> ... ..	591,373 3 3
(As per Account No. 4)	
<b>Balance on Revenue Accounts</b> ... ..	5,878 0 8
(As per Accounts Nos. 5 to 9)	
Natal Central Undertaking ... ..	4,477 0 3
Witbank Undertaking ... ..	2,967 11 8
Durban Undertaking ... ..	6,548 8 6
Sabie Undertaking ... ..	59 1 6
	14,052 1 11
<i>Less</i> —Capetown Undertaking ... ..	8,174 1 3
	£9,883,203 15 5

NOTE.—In addition to the liabilities shown above, the Commission is committed to the extent of approximately £350,000 for expenditure on Capital Account; also £3,100 chargeable against Reserve Fund.

H. J. VAN DER BIJL, Chairman.

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Johannesburg,  
28th March, 1934.

## Expenditure on Capital Account—

(As per Schedule attached.)	
Land and Rights ... ..	£80,173 9 5
Buildings and Civil Works ... ..	2,430,518 17 1
Machinery and Plant ... ..	5,994,965 18 9
Miscellaneous Equipment ... ..	132,232 14 7
	£8,637,890 19 10
<i>Less</i> —Net Revenue during Construction ... ..	145,490 12 3
Provision made prior to Financial Adjustments Act, 1930, for repayment of advances, appropriated in reduction of Capital Expenditure ... ..	218,750 12 10
	364,241 5 1
<b>Stores and Materials</b> ... ..	99,330 15 8
<b>Sundry Debtors and Debit Balances</b> ... ..	109,729 18 0
<b>Investments</b> ... ..	241,395 17 3
Cash on deposit at interest ... ..	237,000 0 0
Temporary Loan ... ..	1,700 0 0
Interest Accrued ... ..	2,695 17 3
<b>Cash on Current Account and on Hand</b> ... ..	117,658 0 9
<b>Investment of Pension Fund</b> ... ..	41,773 6 0
Amount invested in Municipal and Electricity Supply Commission Stocks ... ..	41,620 0 0
Interest Accrued ... ..	153 6 0
<b>Investment of Redemption Fund</b> ... ..	426,583 7 11
(As per Statements attached.)	
Loan No. 1 ... ..	106,214 9 9
Loan No. 3 ... ..	1,988 1 4
Loan No. 4 ... ..	318,380 16 10
<b>Investment of Reserve Fund</b> ... ..	573,082 15 1
Amount invested in Stocks of the Government of the Union of South Africa, Municipalities and Electricity Supply Commission; also Debentures guaranteed by the Government of the Union of South Africa ... ..	569,470 5 3
Interest Accrued ... ..	3,612 9 10
	£9,883,203 15 5

Referred to in our Report of 30th April, 1934.

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

# Electricity Supply Commission.

## SCHEDULE OF EXPENDITURE ON CAPITAL ACCOUNT to 31st December, 1933

Expenditure in connection with Electricity Undertakings.	Total to 31st December, 1932.	Year ended 31st December, 1933.	Total to 31st December, 1933.
<b>NATAL CENTRAL UNDERTAKING:</b>			
Land and Rights ... ..	£18,521 19 5	Cr. —	£18,521 19 5
Buildings and Civil Works ... ..	791,836 1 11	£21 17 5	791,814 4 6
Machinery and Plant ... ..	2,639,937 16 5	7,257 15 0	2,647,195 11 5
Miscellaneous Equipment ... ..	24,607 1 6	270 7 9	24,877 9 3
	£3,474,902 19 3	£7,506 5 4	£3,482,409 4 7
<i>Less—</i>			
Net Revenue during Construction ... ..	2,210 10 6	—	2,210 10 6
Provision made prior to Financial Adjustments Act, 1930, for repayment of Advances, appropriated in reduction of Capital Expenditure	200,767 19 10	—	200,767 19 10
	<b>£3,271,924 8 11</b>	<b>£7,506 5 4</b>	<b>£3,279,430 14 3</b>
<b>WITBANK UNDERTAKING:</b>			
Land and Rights ... ..	£9,035 19 2	Cr. —	£9,035 19 2
Buildings and Civil Works ... ..	572,998 19 1	£1,293 1 1	571,705 18 0
Machinery and Plant ... ..	1,454,970 0 11	11,979 15 5	1,466,949 16 4
Miscellaneous Equipment ... ..	59,484 18 8	6,625 9 6	52,859 9 2
	£2,096,489 17 10	£4,061 4 10	£2,100,551 2 8
<i>Less—</i> Net Revenue during Construction ... ..	103,448 14 11	9 13 5	103,458 8 4
	<b>£1,993,041 2 11</b>	<b>£4,051 11 5</b>	<b>£1,997,092 14 4</b>
<b>CAPETOWN UNDERTAKING:</b>			
Land and Rights ... ..	£21,763 1 8	Cr. £653 6 2	£22,416 7 10
Buildings and Civil Works ... ..	630,341 11 8	20,968 14 9	651,310 6 5
Machinery and Plant ... ..	1,040,610 6 6	178,107 18 11	1,218,718 5 5
Miscellaneous Equipment ... ..	37,898 9 9	301 10 2	37,596 19 7
	£1,730,613 9 7	£199,428 9 8	£1,930,041 19 3
<i>Less—</i>			
Net Revenue during Construction ... ..	15,575 2 3	—	15,575 2 3
Provision made prior to Financial Adjustments Act, 1930, for repayment of Advances, appropriated in reduction of Capital Expenditure	17,982 13 0	—	17,982 13 0
	<b>£1,697,055 14 4</b>	<b>£199,428 9 8</b>	<b>£1,896,484 4 0</b>
<b>DURBAN UNDERTAKING:</b>			
Land and Rights ... ..	£29,689 3 0	Cr. —	£29,689 3 0
Buildings and Civil Works ... ..	349,092 7 1	£1,295 12 9	350,387 19 10
Machinery and Plant ... ..	610,881 17 6	13,738 17 4	624,620 14 10
Miscellaneous Equipment ... ..	6,709 4 11	19 5 9	6,728 10 8
	£996,372 12 6	£15,053 15 10	£1,011,426 8 4
<i>Less—</i> Net Revenue during Construction ... ..	15,121 15 4	—	15,121 15 4
	<b>£981,250 17 2</b>	<b>£15,053 15 10</b>	<b>£996,304 13 0</b>
<b>SABIE UNDERTAKING:</b>			
Land and Rights ... ..	£510 0 0	Cr. —	£510 0 0
Buildings and Civil Works ... ..	65,300 8 4	—	65,300 8 4
Machinery and Plant ... ..	37,481 10 9	—	37,481 10 9
Miscellaneous Equipment ... ..	2,792 15 5	£284 8 7	3,077 4 0
	£106,084 14 6	£284 8 7	£106,369 3 1
<i>Less—</i> Net Revenue during Construction ... ..	9,124 15 10	—	9,124 15 10
	<b>£96,959 18 8</b>	<b>£284 8 7</b>	<b>£97,244 7 3</b>
<b>HEAD OFFICE:</b>			
Furniture and Office Equipment ... ..	£7,203 5 7	Cr. £110 3 8	£7,093 1 11
<b>SUMMARY:</b>			
Land and Rights ... ..	£79,520 3 3	Cr. £653 6 2	£80,173 9 5
Buildings and Civil Works ... ..	2,409,569 8 1	20,949 9 0	2,430,518 17 1
Machinery and Plant ... ..	5,783,881 12 1	211,084 6 8	5,994,965 18 9
Miscellaneous Equipment ... ..	138,695 15 10	6,463 1 3	132,232 14 7
	£8,411,666 19 3	£226,224 0 7	£8,637,890 19 10
<i>Less—</i>			
Net Revenue during Construction ... ..	145,480 18 10	9 13 5	145,490 12 3
Provision made prior to Financial Adjustments Act, 1930, for repayment of Advances, appropriated in reduction of Capital Expenditure	218,750 12 10	—	218,750 12 10
	<b>£8,047,435 7 7</b>	<b>£226,214 7 2</b>	<b>£8,273,649 14 9</b>

# Electricity Supply Commission.

STATEMENT SHOWING DETAILS OF INVESTMENTS ON BEHALF OF THE  
REDEMPTION FUND IN RESPECT OF THE £750,000 GOVERNMENT  
OF THE UNION OF SOUTH AFRICA LOAN (LOAN No. 1)  
AS AT 31st DECEMBER, 1933.

£8,710	Union of South Africa 5% (10 year) Loan, 1935 ... ..	£8,699	2	3
£46,500	Union of South Africa 4½% Local Registered Stock, 1953 ... ..	43,755	0	0
£10,000	South African Iron and Steel Industrial Corporation, Limited, 5% Guaranteed First Mortgage Registered Debentures, 1946/71 ... ..	9,975	0	0
£17,500	Electricity Supply Commission 4½% Local Registered Stock, 1953/63	17,325	0	0
£25,100	Electricity Supply Commission 4½% Local Registered Stock, 1953 ... ..	25,111	7	6
	Interest Accrued ... ..	1,349	0	0
		£106,214	9	9

STATEMENT SHOWING DETAILS OF INVESTMENTS ON BEHALF OF THE  
REDEMPTION FUND IN RESPECT OF THE £500,000 ELECTRICITY  
SUPPLY COMMISSION 4½% LOCAL REGISTERED STOCK, 1953/63  
(LOAN No. 3) AS AT 31st DECEMBER, 1933.

£2,000	Electricity Supply Commission 4½% Local Registered Stock, 1953/63	£1,980	0	0
	Interest Accrued ... ..	8	1	4
		£1,988	1	4

STATEMENT SHOWING DETAILS OF INVESTMENTS ON BEHALF OF THE  
REDEMPTION FUND IN RESPECT OF THE £2,500,000 ELECTRICITY  
SUPPLY COMMISSION 4½% LOCAL REGISTERED STOCK, 1953  
(LOAN No. 4) AS AT 31st DECEMBER, 1933.

£26,200	Union of South Africa 5% (10 year) Loan, 1935 ... ..	£26,167	5	0
£139,500	Union of South Africa 4½% Local Registered Stock, 1953 ... ..	131,265	0	0
£30,000	South African Iron and Steel Industrial Corporation, Limited, 5% Guaranteed First Mortgage Registered Debentures, 1946/71	29,925	0	0
£52,500	Electricity Supply Commission 4½% Local Registered Stock, 1953/63	51,975	0	0
£75,000	Electricity Supply Commission 4½% Local Registered Stock, 1953 ... ..	75,000	0	0
	Interest Accrued ... ..	4,048	11	10
		£318,380	16	10

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Johannesburg,  
28th March, 1934.



# Electricity Supply Commission.

Account No. 1.

Dr. Redemption Fund Account for the  
in respect of £750,000 Government of the Union of South Africa Loan

Cr. Year ended 31st December, 1933,  
(Loan No. 1) redeemable not later than the 31st December, 1954.

<b>To Amount Transferred to Redemption Fund Account,</b>	
<b>Loan No. 4</b> ... ..	£291,589 17 10
Witbank Undertaking ... ..	£220,246 11 0
Durban Undertaking ... ..	56,386 19 8
Sabie Undertaking ... ..	14,649 14 0
Head Office ... ..	306 13 2
<b>„ Balance as per Balance Sheet</b> ... ..	111,928 9 2
Witbank Undertaking ... ..	83,434 11 3
Durban Undertaking ... ..	22,574 15 4
Sabie Undertaking ... ..	5,790 2 2
Head Office ... ..	129 0 5
	£403,518 7 0

By <b>Balance at 31st December, 1932, brought forward</b> ...	£354,001 16 7
Witbank Undertaking ... ..	£270,546 10 10
Durban Undertaking ... ..	65,150 8 8
Sabie Undertaking ... ..	17,961 5 4
Head Office ... ..	343 11 9
<b>„ Amounts Contributed during the Year out of Revenue</b> ...	43,349 10 8
Witbank Undertaking ... ..	28,617 5 2
Durban Undertaking ... ..	12,695 19 9
Sabie Undertaking ... ..	1,950 5 7
Head Office ... ..	86 0 2
<b>„ Nett Proceeds of Sales of Fixed Property</b> ...	258 16 8
Witbank Undertaking ... ..	28 16 8
Sabie Undertaking ... ..	230 0 0
<b>„ Profit on Sales of Investments</b> ...	1,406 9 4
<b>„ Interest Earned on Investments</b> ...	4,501 13 9
Witbank Undertaking ... ..	3,418 6 3
Durban Undertaking ... ..	851 10 6
Sabie Undertaking ... ..	227 3 3
Head Office ... ..	4 13 9
	£403,518 7 0

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Johannesburg,  
28th March, 1934.

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, as amended by Section 3 of the Financial Adjustments Act, 1930, in terms of our report dated 30th April, 1934.

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

# Electricity Supply Commission.

Account No. 2.

Dr. Redemption Fund Account for the  
in respect of £500,000 Electricity Supply Commission

Year ended 31st December, 1933,  
 4½% Local Registered Stock 1953/63 (Loan No. 3).  
 Cr.

To Balance as per Balance Sheet	...	...	...		£6,216 3 9
Natal Central Undertaking	...	...	...	£17 8 3	
Capetown Undertaking	...	...	...	1,788 19 11	
Durban Undertaking	...	...	...	4,409 15 7	
				£6,216 3 9	
				£6,216 3 9	

By Balance at 31st December, 1932, transferred from	...	...	...		
Provision for Redemption Account	...	...	...		£1,720 16 3
Durban Undertaking	...	...	...	£1,720 16 3	
				£1,720 16 3	
„ Amounts Contributed during the Year out of Revenue					4,410 3 4
Natal Central Undertaking	...	...	...	17 8 3	
Capetown Undertaking	...	...	...	1,787 1 11	
Durban Undertaking	...	...	...	2,605 13 2	
				4,410 3 4	
„ Interest Earned on Investments	...	...	...		85 4 2
Capetown Undertaking	...	...	...	1 18 0	
Durban Undertaking	...	...	...	83 6 2	
				85 4 2	
				£6,216 3 9	

A. E. HARTE, C.A. (S.A.), 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.

Johannesburg,  
 28th March, 1934.

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

# Electricity Supply Commission.

Account No. 3.

Dr.

Redemption Fund Account for the  
in respect of £2,500,000 Electricity Supply Commission

Year ended 31st December, 1933,

Cr.

4½% Local Registered Stock 1953 (Loan No. 4).

<b>To Balance as per Balance Sheet</b>	...	...	...	...	£326,635 6 8
Witbank Undertaking	...	...	...	£242,417 2 11	
Durban Undertaking	...	...	...	67,646 6 11	
Sabie Undertaking	...	...	...	16,171 6 5	
Head Office	...	...	...	400 10 5	
					£326,635 6 8

<b>By Amount Transferred from Redemption Fund Account,</b>					
<b>Loan No. 1</b>	...	...	...	...	£291,589 17 10
<i>Less—Proportion of Cost of Raising Loan No. 4</i>	...				11,250 0 0
					£280,339 17 10
Witbank Undertaking	...	...	...	...	211,749 1 10
Durban Undertaking	...	...	...	...	54,211 9 8
Sabie Undertaking	...	...	...	...	14,084 9 10
Head Office	...	...	...	...	294 16 6
<b>„ Amounts Contributed during the Year out of Revenue</b>					32,970 6 6
Witbank Undertaking	...	...	...	...	20,662 17 3
Durban Undertaking	...	...	...	...	10,796 5 7
Sabie Undertaking	...	...	...	...	1,420 12 5
Head Office	...	...	...	...	90 11 3
<b>„ Interest Earned on Investments</b>	...	...	...	...	13,325 2 4
Witbank Undertaking	...	...	...	...	10,005 3 10
Durban Undertaking	...	...	...	...	2,638 11 8
Sabie Undertaking	...	...	...	...	666 4 2
Head Office	...	...	...	...	15 2 8
					£326,635 6 8

A. E. HARTE, C.A. (S.A.), 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, in terms of our report dated 30th April, 1934.

Johannesburg,  
28th March, 1934.

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

# Electricity Supply Commission.

Dr.

Reserve Fund Account for the Year ended 31st December, 1933.

Cr.

To Expenditure during the Year on Replacements and Betterment ... ..	£7,355	3	10
Natal Central Undertaking ... ..	£1,421	1	11
Witbank Undertaking ... ..	923	15	7
Capetown Undertaking ... ..	1,876	18	8
Durban Undertaking ... ..	3,133	7	8
„ Balance as per Balance Sheet ... ..	591,373	3	3
Natal Central Undertaking ... ..	276,875	16	3
Witbank Undertaking ... ..	141,842	18	7
Capetown Undertaking ... ..	111,625	16	9
Durban Undertaking ... ..	54,194	15	4
Sabie Undertaking ... ..	6,833	16	4
	£598,728	7	1

By Balance at 31st December, 1932, brought forward ...	£465,408	1	1
Natal Central Undertaking ... ..	£218,609	16	4
Witbank Undertaking ... ..	114,663	1	5
Capetown Undertaking ... ..	86,090	11	10
Durban Undertaking ... ..	40,116	9	0
Sabie Undertaking ... ..	5,928	2	6
„ Amounts set aside during the Year as per Revenue Accounts ... ..	108,260	16	11
Natal Central Undertaking ... ..	47,934	13	4
Witbank Undertaking ... ..	22,000	0	0
Capetown Undertaking ... ..	22,726	3	7
Durban Undertaking ... ..	15,000	0	0
Sabie Undertaking ... ..	600	0	0
„ Interest Earned on Investments ... ..	25,059	9	1
	£598,728	7	1

Johannesburg,  
28th March, 1934.

A. E. HARTE, C.A. (S.A.), Chief Accountant.

# Electricity Supply Commission.

Account No. 5.

## NATAL CENTRAL UNDERTAKING.

Dr. Revenue Account for the Year

ended 31st December, 1933.

Cr.

Generation of Electricity.		
To Operation—		
Fuel ... ..	£48,560 15 3	
Water, Oil, Waste and Stores ... ..	822 18 9	
Salaries and Wages ... ..	15,468 18 1	
Other Expenses ... ..	215 2 10	
„ Maintenance—		
Stores ... ..	3,768 6 1	
Salaries and Wages ... ..	9,580 5 3	
Other Expenses ... ..	502 1 5	
„ Electricity Purchased ... ..		£78,918 7 8
		2 12 2
Distribution of Electricity.		
„ Operation and Maintenance—		
Stores ... ..	4,400 14 7	
Salaries and Wages ... ..	15,293 11 10	
Other Expenses ... ..	2,078 8 4	
		21,772 14 9
General Expenses.		
„ Local Administration and Technical Management ... ..	5,913 9 5	
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.) ... ..	8,529 14 9	
„ Head Office Administration and General Expenses ... ..	8,184 5 5	
„ Engineering Expenses ... ..	4,302 12 0	
		26,930 1 7
„ Interest ... ..		127,623 16 2
„ Redemption Fund (Loan No. 3) ... ..		168,865 10 11
„ Amount set aside to Reserve Fund ... ..		17 8 3
„ Reserve Fund Adjustment to 31st December, 1932 ... ..	47,934 13 4	
	732 14 1	
„ Balance carried down ... ..		48,667 7 5
		3,742 11 1
		£348,916 13 10
To Balance as per Balance Sheet ... ..	£4,477 0 3	
		£4,477 0 3

By Sales of Electricity—		
Traction Supplies ... ..	£288,640 11 3	
Bulk Supplies ... ..	39,672 15 9	
Industrial Supplies ... ..	13,269 15 3	
Domestic and Lighting Supplies ... ..	3,419 13 4	
		£345,002 15 7
„ Other Revenue ... ..		3,913 18 3

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Referred to in our Report of 30th April, 1934.

Johannesburg,  
28th March, 1934.

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

# Electricity Supply Commission.

## WITBANK UNDERTAKING.

Dr.

Revenue Account for the Year

ended 31st December, 1933.

Cr.

### Generation of Electricity.

To Operation—				
Fuel ... ..	£70,783	5	11	
Water, Oil, Waste and Stores ... ..	5,139	9	3	
Salaries and Wages ... ..	21,733	0	6	
Other Expenses ... ..	961	1	6	
„ Maintenance—				
Stores ... ..	10,668	17	1	
Salaries and Wages ... ..	12,397	17	4	
Other Expenses ... ..	6,359	10	9	
	£128,043	2	4	

### Distribution of Electricity.

„ Operation and Maintenance—				
Stores ... ..	1,455	14	5	
Salaries and Wages ... ..	2,641	6	5	
Other Expenses ... ..	223	10	3	
	4,320	11	1	

### General Expenses.

„ Local Administration and Technical Management ...	7,364	17	10	
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.) ... ..	6,031	19	10	
„ Administration, Engineering and General Expenses of Operating Party (The Victoria Falls and Transvaal Power Company, Limited) ... ..	6,637	10	0	
„ Head Office Administration and General Expenses ...	3,773	16	4	
„ Engineering Expenses ... ..	1,983	19	1	
	25,792	3	1	
	158,155	16	6	
	100,848	13	5	
„ Interest ... ..				
„ Redemption Fund: Loan No. 1 ... ..	28,617	5	2	
Loan No. 4 ... ..	20,662	17	3	
	49,280	2	5	
„ Amount set aside to Reserve Fund ... ..	22,000	0	0	
	£330,284	12	4	
	£330,284	12	4	
To Balance brought down ... ..	£3,953	12	11	
„ Balance as per Balance Sheet ... ..	2,967	11	8	
	£6,921	4	7	
	£6,921	4	7	

### By Sales of Electricity—

Bulk Supplies ... ..	£271,212	10	5	
Industrial Supplies ... ..	47,883	12	8	
Domestic and Lighting Supplies ... ..	4,120	11	3	
	£323,216	14	4	
Less—Proportion applied against Capital Cost of part of Undertaking not in commercial operation		9	13	5
Adjustment in respect of Bulk Supplies for the period prior to 31st December, 1932 ...	925	14	5	
	935	7	10	
	322,281	6	6	
„ Other Revenue ... ..	4,049	12	11	
„ Balance carried down ... ..	3,953	12	11	

By Balance at 31st December, 1932, brought forward ...	£6,921	4	7	
	£6,921	4	7	
	£6,921	4	7	

Johannesburg,  
28th March, 1934.

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Referred to in our Report of 30th April, 1934.

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

# Electricity Supply Commission.

## CAPETOWN UNDERTAKING.

### Revenue Account for the Year ended 31st December, 1933.

Dr.

Cr.

#### Generation of Electricity.

To Operation—			
Fuel ... ..	£102,345 16 10		
Water, Oil, Waste and Stores ... ..	2,169 14 7		
Salaries and Wages ... ..	9,337 13 8		
Other Expenses ... ..	620 10 7		
,, Maintenance—			
Stores ... ..	4,141 12 0		
Salaries and Wages ... ..	7,256 1 4		
Other Expenses ... ..	1,988 4 11		
	£127,859 13 11		

#### Distribution of Electricity.

,, Operation and Maintenance—			
Stores ... ..	1,343 13 0		
Salaries and Wages ... ..	10,224 0 1		
Other Expenses ... ..	3,028 9 3		
	14,596 2 4		

#### General Expenses.

,, Local Administration and Technical Management ...	6,252 13 7		
,, General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.) ... ..	7,784 3 11		
,, Head Office Administration and General Expenses ...	6,944 4 7		
,, Engineering Expenses ... ..	3,650 13 9		
	24,631 15 10		
,, Interest ... ..	167,087 12 1		
,, Redemption Fund (Loan No. 3) ... ..	86,902 1 10		
,, Amount set aside to Reserve Fund ... ..	1,787 1 11		
	22,726 3 7		
	£278,502 19 5		

To Balance at 31st December, 1932, brought forward ...	£3,925 6 3		
,, Balance brought down ... ..	4,248 15 0		
	£8,174 1 3		

#### By Sales of Electricity—

Traction Supplies ... ..	£129,085 6 10		
Bulk Supplies ... ..	24,427 6 8		
Industrial Supplies ... ..	58,970 12 9		
Domestic and Lighting Supplies ... ..	15,764 8 8		
Power Interchanged ... ..	44,100 3 10		
	£272,347 18 9		
,, Other Revenue ... ..	1,906 5 8		
,, Balance carried down ... ..	4,248 15 0		

By Balance as per Balance Sheet ... ..	£8,174 1 3		
	£8,174 1 3		

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Referred to in our Report of 30th April, 1934.

Johannesburg,  
28th March, 1934.

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

# Electricity Supply Commission.

## DURBAN UNDERTAKING.

### Revenue Account for the Year ended 31st December, 1933.

Dr.

Cr.

<b>Generation of Electricity.</b>					
To Operation—					
Fuel ... ..	£67,291	1	2		
Water, Oil, Waste and Stores ... ..	1,084	7	7		
Salaries and Wages ... ..	12,270	16	0		
Other Expenses ... ..	572	15	7		
„ Maintenance—					
Stores ... ..	4,558	7	11		
Salaries and Wages ... ..	9,315	2	0		
Other Expenses ... ..	1,486	12	0		
				£96,579	2 3
<b>General Expenses.</b>					
„ Local Administration and Technical Management ...	3,519	9	2		
„ General Expenses (including Maintenance of Quarters, Stores Expenses, Rates, Insurance, Pension Fund Contributions, etc.) ... ..	3,406	17	6		
„ Head Office Administration and General Expenses ...	6,448	4	4		
„ Engineering Expenses ... ..	3,796	12	7		
				17,171	3 7
				113,750	5 10
„ Interest ... ..				49,266	7 7
„ Redemption Fund—					
Loan No. 1 ... ..	12,695	19	9		
Loan No. 3 ... ..	2,605	13	2		
Loan No. 4 ... ..	10,796	5	7		
				26,097	18 6
„ Amount set aside to Reserve Fund ... ..				15,000	0 0
				£204,114	11 11
				£827	3 10
„ Balance as per Balance Sheet ... ..	6,548	8	6		
				£7,375	12 4
				£204,114	11 11
To Balance brought down ... ..				£827	3 10
„ Balance as per Balance Sheet ... ..	6,548	8	6		
				£7,375	12 4
				£202,992	11 0
By Sales of Electricity—					
Bulk Supplies ... ..					
„ Other Revenue ... ..				294	17 1
„ Balance carried down ... ..				827	3 10
				£202,992	11 0

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Referred to in our Report of 30th April, 1934.

Johannesburg,  
28th March, 1934.

ALEX. AIKEN & CARTER, B. HALSEY,	}	Auditors.
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# Electricity Supply Commission.

## SABIE UNDERTAKING.

Dr. Revenue Account for the Year ended 31st December, 1933.

Cr.

### Generation of Electricity.

To Operation—					
Water, Oil, Waste and Stores	...	...	...	£40	18 10
Salaries and Wages	...	...	...	1,832	9 5
Other Expenses	...	...	...	4	3
,, Maintenance—					
Stores	...	...	...	418	5 2
Salaries and Wages	...	...	...	80	7 10
Other Expenses	...	...	...	15	4 0
				£2,387	9 6
<b>Distribution of Electricity.</b>					
,, Operation and Maintenance—					
Stores	...	...	...	3	16 7
Other Expenses	...	...	...	107	2 9
				110	19 4
<b>General Expenses.</b>					
,, Local Administration and Technical Management				138	6 5
,, General Expenses (including Maintenance of Quarters, Insurance, Pension Fund Contributions, etc.)				199	9 6
,, Head Office Administration and General Expenses				826	13 11
,, Engineering Expenses				434	12 1
				1,599	1 11
				4,097	10 9
				4,876	12 8
,, Interest					
,, Redemption Fund—					
Loan No. 1	...	...	...	1,950	5 7
Loan No. 4	...	...	...	1,420	12 5
				3,370	18 0
,, Amount set aside to Reserve Fund				600	0 0
,, Balance carried down				47	10 2
				£12,992	11 7

### By Sales of Electricity—

Mining Supplies	...	...	...	...	£12,968	19 7
,, Other Revenue	...	...	...	...	23	12 0

To Balance as per Balance Sheet	...	...	...	£59	1 6
				£59	1 6

By Balance at 31st December, 1932, brought forward	...	...	...	...	£11	11 4
,, Balance brought down	...	...	...	...	47	10 2
				£59	1 6	

A. E. HARTE, C.A. (S.A.), Chief Accountant.

Referred to in our Report of 30th April, 1934.

Johannesburg,  
28th March, 1934.

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

## **ANNEXURE “B”: TARIFFS.**

EMBODYING—

The schedule of standard prices in force in respect of the Commission's several Undertakings.

## ANNEXURE " B ": TARIFFS.

The schedule of standard prices in respect of the Commission's several Undertakings are subjoined. These prices and the conditions attaching thereto are more fully set out in the Licences granted to the Commission by the Electricity Control Board, and are subject to alteration in terms of the Electricity Act, 1922.

### NATAL CENTRAL UNDERTAKING.

- (a) A charge of £25 per annum, plus
- (b) a charge of 8s. 4d. for each kilovolt ampere of the maximum demand supplied in each month, plus
- (c) a charge of 0·3d. per unit for the first million units supplied in each year,  
a charge of 0·2d. per unit for the next two million units supplied in each year,  
a charge of 0·15d. per unit for all additional units supplied in each year.

### WITBANK UNDERTAKING.

- (a) A charge of £25 per annum, plus
- (b) a charge of 8s. 4d. for each kilovolt ampere of the maximum demand supplied in each month, plus
- (c) a charge of 0·045d. for each unit supplied.

### CAPE TOWN UNDERTAKING.

- (a) (i) A charge of 13s. 7d. per month for each of the first 250 kilovolt amperes of the maximum demand supplied in each month;  
(ii) a charge of 12s. 3d. per month for each of the next 250 kilovolt amperes of the maximum demand supplied in each month;  
(iii) a charge of 8s. 4d. per month for each additional kilovolt ampere of the maximum demand supplied in each month;  
plus
- (b) (i) a charge of 0·5d. per unit for the first 100,000 units supplied in each month;  
(ii) a charge of 0·4d. per unit for the next 200,000 units supplied in each month;  
(iii) a charge of 0·3d. per unit for all additional units supplied in each month.

### DURBAN UNDERTAKING.

- (a) A charge of £4. 4s. for each kilowatt of the maximum demand supplied in each year (the charge in force as at 31st December, 1933, was £3. 15s. per kilowatt), plus
- (b) a charge of 0·175d. for each unit supplied.

### SABIE UNDERTAKING.

- (a) A charge not exceeding £2 per month, plus
- (b) a charge of £13. 2s. per annum for each kilovolt ampere of the maximum demand supplied in each year, plus
- (c) a charge of 0·1d. for each unit supplied.

NOTE.—By arrangement with the two consumers who are supplied from the Undertaking, the total production costs of this Undertaking are apportioned between consumers in proportion to the number of units supplied to each consumer month by month.

## **ANNEXURE “C.”**

Particulars of areas of supply of the Commission's Undertakings :—

## ANNEXURE "C."

### PARTICULARS OF AREAS OF SUPPLY.

The following are particulars of the areas of supply of the Commission's Undertakings:—

#### NATAL CENTRAL UNDERTAKING.

(a) The area from time to time belonging to the South African Railways and Harbours Administration along the route of the electrified section of the Natal Main Line between Pietermaritzburg and Glencoe Junction and of any other section of line to which the existing railway electrification scheme may be extended and to which electricity can economically be supplied from the Natal Central Undertaking.

(b) An area within eight miles of:—

- (i) the electrified section of the Natal Main Line of railway between Pietermaritzburg and Glencoe Junction and of any other section of line to which the existing railway electrification scheme may be extended, and
- (ii) the Natal Main Line of railway between Glencoe Junction and Newcastle.

#### WITBANK UNDERTAKING.

(a) An area within a radius of 25 miles from the generating station.

(b) The railways and property from time to time of the South African Railways and Harbours Administration within a radius of 100 miles from Witbank Railway Station, and such portion of the said railways and property outside the said 100 miles radius as forms part of the main line between Witbank and the Portuguese Border near Komatipoort.

#### CAPETOWN UNDERTAKING.

(a) The area from time to time belonging to the South African Railways and Harbours Administration within a radius of 110 miles from the generating station.

(b) An area within 5 miles on either side of any line of railway situate inside a radius of 110 miles from the generating station as and when any such line of railway is electrified, or as and when for other reasons a supply of electricity within such area becomes economically practicable.

#### DURBAN UNDERTAKING.

(a) The area from time to time belonging to the South African Railways and Harbours Administration within a radius of 42 miles from the power station.

(b) An area within 5 miles of any line of railway situate inside a radius of 42 miles from the power station as and when any such line of railway is electrified, or as and when for other reasons a supply of electricity within such area becomes economically practicable, but exclusive of the area of supply of the Natal Central Undertaking.

#### SABIE UNDERTAKING.

An area within a radius of 8 miles from the Sabie Railway Station.

In the case of all the areas referred to above the areas of jurisdiction of urban Local Authorities are excluded, except where consent to supply by the Commission has been given by certain Local Authorities.

## ANNEXURE “ D.”

### EMBODYING—

Statement No.

1. Summary of principal plant and equipment installed as at 31st December, 1933.
2. Summary of principal plant and equipment in course of installation or on order as at 31st December, 1933.
3. Statement showing the price or rent of any land or rights or interest in or over land or any other property acquired or hired by the Commission.

# Electricity Supply Commission.

## STATEMENT No. 1.

Summary of principal plant and equipment installed at the Commission's several Undertakings as at 31st December, 1933:—

### POWER STATIONS.

Colenso (Natal Central Undertaking) ...	}	Steam Using
Witbank ... ..		
Congella (Durban Undertaking) ...		
Salt River (Capetown Undertaking) ...		
Sabie ... ..		Hydro

### 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.
Witbank ... ..	16	70,000	1,120,000	225
Colenso ... ..	10	60,000	600,000	270
Congella ... ..	{ 6 2	{ 60,000 100,000	560,000	{ 270 300
Salt River ... ..	{ 4 4	{ 60,000 100,000	640,000	{ 270 425
<b>Totals ... ..</b>	<b>42</b>		<b>2,920,000</b>	

### GENERATING PLANT.

Power Station.	No. of Generators.	Normal Rating of Each Generator.		Total Rating of Generator House.		Voltage of Generation
		Kilo-watts.	Kilovolt Amperes.	Kilo-watts.	Kilovolt Amperes.	
Colenso ... ..	5	12,000	13,500	60,000	67,500	6,600
Witbank ... ..	5	20,000	23,500	100,000	117,500	6,600
Congella ... ..	{ 2 3	{ 6,000 12,000	{ 7,500 15,000	48,000	60,000	6,600
Salt River ... ..	{ 3 1	{ 10,000 20,000	{ 11,000 25,000	50,000	58,000	{ 12,000 33,000
Sabie ... ..	3	450	600	1,350	1,800	3,300
<b>Totals ... ..</b>	<b>22</b>			<b>259,350</b>	<b>304,800</b>	

TRANSMISSION LINES AND CABLES.

Undertaking.	6,600, 3,300 and						Total Route Miles.
	88,000 volts. Route Miles.	33,000 volts. Route Miles.	21,000 volts. Route Miles.	12,000 volts. Route Miles.	2,200 volts. Route Miles.	380/220 volts. Route Miles.	
Natal Central ...	275	50.3	—	—	44.2	18.2	387.7
Witbank ...	—	—	76.6	—	7.0	14.9	98.5
Capetown ...	—	200.0	—	7.5	26.8	62.1	296.4
Durban ...	—	—	—	—	—	—	—
Sabie ...	—	—	7.2	—	2.2	—	9.4
<b>Totals ...</b>	<b>275</b>	<b>250.3</b>	<b>83.8</b>	<b>7.5</b>	<b>80.2</b>	<b>95.2</b>	<b>792.0</b>

TRANSFORMERS.  
(Step-up and Step-down.)

Undertaking.						Capacity. Kilovolt Amperes.
Natal Central ...	...	...	...	...	...	141,395
Witbank ...	...	...	...	...	...	174,691
Capetown ...	...	...	...	...	...	62,487
Durban ...	...	...	...	...	...	6,270
Sabie ...	...	...	...	...	...	3,115
<b>Total ...</b>	...	...	...	...	...	<b>387,958</b>

CONVERTING SUB-STATIONS.

Type.			No. of Sub-stations.	No. of Sets.	Rating Kilowatts.
Motor Generators ...	...	...	{ 13 1	23	46,000
Rotary Converters ...	...	...		6	12
<b>Totals ...</b>	...	...	<b>20</b>	<b>36</b>	<b>70,150</b>

STAFF QUARTERS.

		Brick Buildings.	Wood and Iron Buildings.	Total.
Married Staff Quarters ...	...	81	15	96
Single Staff Quarters ...	...	9	1	10
<b>Totals ...</b>	...	<b>90</b>	<b>16</b>	<b>106</b>



# Electricity Supply Commission.

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## STATEMENT No. 2.

Summary of principal plant and equipment in course of installation or on order as at 31st December, 1933:—

### BOILER PLANT.

No. of Boilers.	Capacity in lbs. of steam per hour (normal rating).		
	Each.	Total.	
4	70,000	280,000	...

### GENERATING PLANT.

No. of Sets.	Capacity each,		Total Capacity, Kilowatts.
	Kilowatts.		
2	20,000	40,000	...

### TRANSMISSION LINE AND CABLES.

	88,000 Volts.		33,000 Volts.		11,000 Volts.	
	Route Miles.		Route Miles.		Route Miles.	
Overhead Lines	...	60	...	9·7	...	17·4

### TRANSFORMERS

(Step-up and Step-down).

	Kilovolt Amperes.	
Total capacity in course of installation or on order	...	160

# Electricity Supply Commission.

STATEMENT No. 3.

## 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 1933.

(See previous Annual Reports for Rights or Interests in or over Land acquired prior to 1933.)

Area.			Farm or Lot.	District.	Title.	Purchase Price or Rental.	Acquired From.	Purpose for Which Required.
Acres.	Roods.	Perches.						
<b><u>DURBAN UNDERTAKING.</u></b>								
			Subdivison 0 Sea View	Durban	Lease of 12 acres	£12 0 0 per annum	Railways and Har- bours Administration	Depositing Chimney Grit.
<b><u>NATAL CENTRAL UNDERTAKING.</u></b>								
			Lot Napier and Napier A	Pietermaritzburg	Servitude of Right-of-Way in Perpetuity	—	Borough of Pietermaritzburg	Power Conductors.
<b><u>CAPETOWN UNDERTAKING.</u></b>								
38	22		Lot 99 Elsies River Estate	Elsies River	Freehold	165 0 0	Elsies River Land and Estate Syndicate, Ltd.	Substation Site.
			Lot A adjoining By Den Weg	Stellenbosch	Servitude of Right-of-Way in Perpetuity	—	A. J. van Velden	Power Conductors.
1	4,110		Lot E.S.C. Lot B of Railway Reserve	Bellville	Government Grant	—	Government of Union of South Africa	Substation Site.
			Mulders Vlei	Stellenbosch	Servitude of Right-of-Way in Perpetuity	—	Estate late J. T. Starke	Substation Site.

# Electricity Supply Commission.

## STATEMENT No. 1.

Summary of principal plant and equipment installed at the Commission's several Undertakings as at 31st December, 1933:—

### POWER STATIONS.

Colenso (Natal Central Undertaking) ...	}	Steam Using
Witbank ... ..		
Congella (Durban Undertaking) ...		
Salt River (Capetown Undertaking) ...		
Sabie ... ..		Hydro

### 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.
Witbank ... ..	16	70,000	1,120,000	225
Colenso ... ..	10	60,000	600,000	270
Congella ... ..	{ 6 2 }	{ 60,000 100,000 }	560,000	{ 270 300 }
Salt River ... ..	{ 4 4 }	{ 60,000 100,000 }	640,000	{ 270 425 }
<b>Totals ... ..</b>	<b>42</b>		<b>2,920,000</b>	

### GENERATING PLANT.

Power Station.	No. of Generators.	Normal Rating of Each Generator.		Total Rating of Generator House.		Voltage of Generation
		Kilo-watts.	Kilovolt Amperes.	Kilo-watts.	Kilovolt Amperes.	
Colenso ... ..	5	12,000	13,500	60,000	67,500	6,600
Witbank ... ..	5	20,000	23,500	100,000	117,500	6,600
Congella ... ..	{ 2 3 }	{ 6,000 12,000 }	{ 7,500 15,000 }	48,000	60,000	6,600
Salt River ... ..	{ 3 1 }	{ 10,000 20,000 }	{ 11,000 25,000 }	50,000	58,000	{ 12,000 33,000 }
Sabie ... ..	3	450	600	1,350	1,800	3,300
<b>Totals ... ..</b>	<b>22</b>			<b>259,350</b>	<b>304,800</b>	

TRANSMISSION LINES AND CABLES.

Undertaking.	6,600, 3,300 and						Total Route Miles.
	88,000 volts. Route Miles.	33,000 volts. Route Miles.	21,000 volts. Route Miles.	12,000 volts. Route Miles.	2,200 volts. Route Miles.	380/220 volts. Route Miles.	
Natal Central ...	275	50.3	—	—	44.2	18.2	387.7
Witbank ...	—	—	76.6	—	7.0	14.9	98.5
Capetown ...	—	200.0	—	7.5	26.8	62.1	296.4
Durban ...	—	—	—	—	—	—	—
Sabie ...	—	—	7.2	—	2.2	—	9.4
<b>Totals ...</b>	<b>275</b>	<b>250.3</b>	<b>83.8</b>	<b>7.5</b>	<b>80.2</b>	<b>95.2</b>	<b>792.0</b>

TRANSFORMERS.  
(Step-up and Step-down.)

Undertaking.						Capacity. Kilovolt Amperes.
Natal Central	...	...	...	...	...	141,395
Witbank	...	...	...	...	...	174,691
Capetown	...	...	...	...	...	62,487
Durban	...	...	...	...	...	6,270
Sabie	...	...	...	...	...	3,115
<b>Total ...</b>	...	...	...	...	...	<b>387,958</b>

CONVERTING SUB-STATIONS.

Type.			No. of Sub-stations.	No. of Sets.	Rating Kilowatts.
Motor Generators	...	...	{ 13 1	23	46,000
				1	150
Rotary Converters	...	...	6	12	24,000
<b>Totals</b>	...	...	<b>20</b>	<b>36</b>	<b>70,150</b>

STAFF QUARTERS.

				Brick Buildings.	Wood and Iron Buildings.	Total.
Married Staff Quarters	...	...	...	81	15	96
Single Staff Quarters	...	...	...	9	1	10
<b>Totals</b>	...	...	...	<b>90</b>	<b>16</b>	<b>106</b>

# Electricity Supply Commission.

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## STATEMENT No. 2.

Summary of principal plant and equipment in course of installation or on order as at 31st December, 1933:—

### BOILER PLANT.

No. of Boilers.	Capacity in lbs. of steam per hour (normal rating).		
	Each.	Total.	
4	70,000	280,000	...

### GENERATING PLANT.

No. of Sets.	Capacity each,		Total Capacity,
	Kilowatts.		
2	20,000	40,000	...

### TRANSMISSION LINE AND CABLES.

Overhead Lines ...	88,000 Volts.		33,000 Volts.		11,000 Volts.	
	Route Miles.		Route Miles.		Route Miles.	
...	60	...	9·7	...	17·4	...

### TRANSFORMERS

(Step-up and Step-down).

	Kilovolt Amperes.	
Total capacity in course of installation or on order	...	160

# Electricity Supply Commission.

STATEMENT No. 3.

## 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 1933.

(See previous Annual Reports for Rights or Interests in or over Land acquired prior to 1933.)

Area.			Farm or Lot.	District.	Title.	Purchase Price or Rental.	Acquired From.	Purpose for Which Required.
Acres.	Roods.	Perches.						
<b><u>DURBAN UNDERTAKING.</u></b>								
			Subdivison 0 Sea View	Durban	Lease of 12 acres	£12 0 0 per annum	Railways and Har- bours Administration	Depositing Chimney Grit.
<b><u>NATAL CENTRAL UNDERTAKING.</u></b>								
			Lot Napier and Napier A	Pietermaritzburg	Servitude of Right-of-Way in Perpetuity	—	Borough of Pietermaritzburg	Power Conductors.
<b><u>CAPETOWN UNDERTAKING.</u></b>								
38	22		Lot 99 Elsies River Estate	Elsies River	Freehold	165 0 0	Elsies River Land and Estate Syndicate, Ltd.	Substation Site.
			Lot A adjoining By Den Weg	Stellenbosch	Servitude of Right-of-Way in Perpetuity	—	A. J. van Velden	Power Conductors.
1	4,110		Lot E.S.C. Lot B of Railway Reserve	Bellville	Government Grant	—	Government of Union of South Africa	Substation Site.
			Mulders Vlei	Stellenbosch	Servitude of Right-of-Way in Perpetuity	—	Estate late J. T. Starke	Substation Site.

## **ANNEXURE “ E.”**

Showing the Electricity Supply Schemes of Urban Local Authorities reported upon by the Commission in terms of Section 38 of the Electricity Act, 1922.

## MUNICIPAL ELECTRICITY SUPPLY SCHEMES.

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Up to 31st December, 1933, 247 Municipal electricity supply schemes have been reported on by the Commission, and supplementary reports upon tenders have been submitted in respect of 116 schemes.

During the year 1933, the following schemes were reported upon by the Commission, viz.:—

### CAPE.

New Schemes.	Extension Schemes.	Tenders.
Fransch Hoek	Barkly East	Colesberg
	Colesberg	Fransch Hoek
	East London	George
	George	Graaff-Reinet
	Humansdorp	Humansdorp
	Oudtshoorn	Mossel Bay
	Robertson	Robertson

### TRANSVAAL.

Ermelo  
Johannesburg

### O.F.S.

Fauresmith	Bothaville
Senekal	Parys
	Senekal

Of the total of 247 Municipal electricity supply schemes reported upon by the Commission up to the end of the year 1933, 104 were new schemes.



## ANNEXURE " F. "

EMBODYING—

Statement No.

1. Units sold to all consumers during the past eight years
2. The distribution of the units sold during 1933 as between the various classes of consumers.
3. Operating statistics relating to the Commission's undertakings.

# Electricity Supply Commission.

## STATEMENT No. 1.

Units sold to all consumers during the past eight years.

Year.	Natal Central Undertaking.	Witbank Undertaking.	Capetown Undertaking.	Durban Undertaking.	Sabie Undertaking.	Total.
1926 ...	719,666	160,031,213	280,242	—	727,401	<b>161,758,522</b>
1927 ...	104,206,235	439,061,722	5,811,836	—	1,938,940	<b>551,018,733</b>
1928 ...	114,213,037	464,267,213	31,038,697	15,563,460	2,829,888	<b>627,912,295</b>
1929 ...	123,911,774	543,091,138	47,945,690	78,873,576	3,176,173	<b>796,998,351</b>
1930 ...	117,075,484	618,951,364	49,772,016	99,228,000	4,585,060	<b>889,611,924</b>
1931 ...	101,131,880	603,359,113	52,109,958	103,899,765	6,585,553	<b>867,086,269</b>
1932 ...	100,292,933	610,285,123	64,268,873	109,808,223	6,080,010	<b>890,735,162</b>
1933 ...	109,186,538	639,368,114	100,685,629	118,538,312	6,349,651	<b>974,128,244</b>

## STATEMENT No. 2.

The distribution of the units sold during 1933 as between the various classes of consumers.

UNITS SOLD, 1933.

Undertaking.	Traction.	Bulk.	Industrial and Mining.	Domestic and Lighting.	Total.
Natal Central ...	88,994,630	16,420,305	3,301,223	470,380	<b>109,186,538</b>
Witbank ...	—	597,863,712	40,825,230	679,172	<b>639,368,114</b>
Capetown ...	31,586,296	51,381,062	16,713,304	1,004,967	<b>100,685,629</b>
Durban ...	—	118,538,312	—	—	<b>118,538,312</b>
Sabie ...	—	—	6,349,651	—	<b>6,349,651</b>
<b>Totals ...</b>	<b>120,580,926</b>	<b>784,203,391</b>	<b>67,189,408</b>	<b>2,154,519</b>	<b>974,128,244</b>

## STATEMENT No. 3.

TABLE No. 1.

Operating statistics relating to the Commission's power stations for the year 1933.

Power Station.	Units Generated.	Units Sold.	Maximum Half-hourly Demand. Kilowatts.	Load Factor. %
Colenso ...	124,443,530	109,186,538	27,580	48.2
Witbank ...	682,572,838	639,368,114	87,292	83.7
Salt River ...	109,148,566	100,685,629	31,100	37.1
Congella ...	128,357,800	118,538,312	31,267	43.3
Sabie ...	6,728,300	6,349,651	1,150	65.8

TABLE No. 2.

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

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 (Natal Central) ...	91,714	1.47	1.58	12,420	19,600	17.4%
Witbank ... ..	600,486	1.76	1.88	11,080	20,830	16.38%
Salt River (Capetown) ...	80,831	1.48	1.57	13,190	20,700	16.5%
Congella (Durban) ... ..	86,660	1.35	1.46	12,670	18,500	18.4%

				Average Cost per Ton (2,000 lbs.).			
				1933.	1932.	1931.	1930.
Colenso ... ..	...	...	...	10/7	9/10	8/3	8/-
Witbank ... ..	...	...	...	2/4	2/ 4	2/2	2/2
Salt River ... ..	...	...	...	25/4	24/11	23/4	23/5
Congella ... ..	...	...	...	15/6	15/ 4	14/2	13/2

TABLE No. 3.

Particulars of Staff employed.

The staff employed by the Commission as at 31st December, 1933, as compared with the previous year, was as follows:—

	1933.	1932.	Difference.
Europeans ... ..	405	405	—
Non-Europeans ... ..	273	240	+ 33
<b>Totals</b> ... ..	<b>678</b>	<b>645</b>	<b>+ 33</b>