MEMBERS OF THE

Electricity Supply Commission.

DR. HENDRIK JOHANNES VAN DER BIJL (Chairman).

ALBERT MICHAEL JACOBS.

ROBERT BURNS WATERSTON.

WILLIAM PLOWMAN MOYESE HENDERSON.

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Electricity Supply Commission.

Escom House,

Rissik Street.

Johannesburg,

30th May, 1944.

To the Honourable

The Minister of Economic Development,

Pretoria.

Sir,

In conformity with the provisions of Section 14 of the Electricity Act, No. 42 of 1922, the Commission has the honour to present its Twenty-first Annual Report, covering its operations for the year ended 31st December, 1943, together with a brief review of its activities up to 30th April, 1944.

Establishment of Commission. As this Report marks the coming of age of the Commission, which was established on 1st March, 1923, by Government Notice No. 408 of 6th March, 1923, it may be of interest to review some of its more important attainments to date.

Created when World War I was a fresh memory and South Africa stood on the threshold of a new era of development, the Commission, which was then considered by many to be a bold experiment, has attained its majority in the midst of World War II. The Commission takes justifiable pride in its vital contribution to the nation's war effort and feels confident of its ability to take an even greater part in the post-war development which will be so largely dependent upon a cheap and abundant supply of electricity.

Endowed with no greater advantages than those enjoyed by Functions of Commission. private enterprise, except for the facility of borrowing from the Treasury during the first seven years of its existence, sufficient money at current rates of interest to enable it to finance its operations in the early stages, the Commission was charged by statute with the following main functions and duties:—

- (a) the establishment, acquisition, maintenance and working of undertakings for an efficient supply of electricity to Government Departments, the South African Railways and Harbours Administration, local authorities, companies and other persons carrying on industrial undertakings or to any persons whatsoever in the Union;
- (b) the investigation of new or additional facilities for the supply of electricity within any area and for the co-ordination and co-operation of existing undertakings, so as to stimulate the provision, wherever required, of a cheap and abundant supply of electricity.

These functions and duties are required to be carried out under the statutory injunction that "it shall be a general principle of the Commission that its undertakings shall, as far as practicable, be carried on neither at a profit nor at a loss, and that its charges shall be adjusted accordingly from time to time."

In contra-distinction, the Electricity Act permits private enterprise to retain the profit motive, subject to the sharing with consumers of "surplus profits" as defined in the Act.

The Commission operates strictly on business lines, is outside political control and is licensed and controlled by the Electricity Control Board in exactly the same manner as a private concern, but, unlike private enterprise, the Commission must finance its undertakings out of fixed-term interest bearing loans and not share capital. Before raising any loans, the Commission must obtain the sanction of the Governor-General, and such loans and interest thereon are a first charge on the assets and revenue of the Commission.

Capital.

The faith of the South African investing public in the future of the Commission was early demonstrated.

The Commission's first attempt to raise a public loan was made in February, 1933, when it invited subscriptions for the modest sum of £500,000. The response to that issue was so encouraging that a further loan of £2,500,000 at $4\frac{1}{2}$ per cent. interest, which rate was a $\frac{1}{4}$ per cent. lower than that of the previous loan, was raised two months later.

In March, 1934, the Commission offered for public subscription a loan of £6,750,000 with interest at the rate of 3_4^3 per cent. The

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Capital.

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In March, 1934, the Commission offered for public subscription a loan of £6,750,000 with interest at the rate of 33 per cent. The

amount was oversubscribed within 48 hours of the opening of subscription lists. That loan, which, incidentally, was not underwritten and is the largest yet raised by the Commission, was issued primarily for the purpose of repaying the balance of advances totalling £8,000,000 obtained from the Treasury for financing the Commission in the early stages of its existence, £2,250,000 having been repaid in June, 1933.

The rate of interest paid by the Commission on the Treasury advances, which were subsequently consolidated into two loans of £3,000,000 and £5,000,000 redeemable not later than 31st December, 1954, and 31st December, 1979, respectively, was 5.018 per cent. and it has been estimated that, as the result of the repayment of those loans, the saving to the Commission's consumers, calculated over the period of the loans, will exceed £5,000,000.

Further loans were raised as follows:—

November, 1934				£2,500,000 at $3\frac{1}{2}\%$
July, 1936		• • •	•••	£2,000,000 at $3\frac{1}{4}\%$
September, 1937	• • •		• • •	£2,000,000 at $3\frac{1}{2}\%$
April, 1939	• • •		• • •	£2,000,000 at $3\frac{3}{4}\%$
December, 1940		• • •	• • •	£1,500,000 at $3\frac{3}{4}\%$
July, 1941				£2,000,000 at $3\frac{1}{4}\%$

Assets and Liabilities.

At 31st December, 1943, the Commission's total loan capital, all publicly subscribed in South Africa, was £21,750,000. The assets of the Commission at that date amounted to nearly £31,000,000 and its total liabilities were slightly over £24,000,000, showing an excess of assets over liabilities of nearly £7,000,000.

At the date of this Report, the Commission owns seven main Under-takings. power stations, with a total installed capacity of 872,650 kilowatts of generating plant (including 66,000 kW. under construction in the Vaal Power Station), which will be increased to 1,084,150 kilowatts when plant now on order is installed. In addition, 2,206 kilowatts of generating plant are installed in four small standby diesel plants at various centres. With the exception of its hydro-electric station at Sabie, the Commission's power stations are all operated by steam and are situated, respectively, at Cape Town (Salt River), Colenso, Durban (Congella), Vereeniging District (Klip), Heilbron District, near Viljoen's Drift (Vaal) and Witbank. Each of these power stations, together with an area of supply clearly defined in the respective licences or permits granted

to the Commission by the Electricity Control Board, constitutes a separate and distinct undertaking and, in terms of the Electricity Act, each undertaking is financially independent. The standard prices for the supply of electricity from each of the Commission's Undertakings and the conditions attaching thereto are also embodied in the Commission's licences or permits. These prices are subject to adjustment from time to time in terms of the Act, and the prices in force for the time being are published annually by the Commission in the Government Gazette and local newspapers.

Lines, Cables and formers.

Area of Supply,

Power

Trans-

The Commission's licensed area of supply in the four provinces of the Union is now over 34,000 square miles and it owns over 2.470 route miles of overhead power lines and 100 route miles of underground cables, the total step-up and step-down static transformer capacity on the systems being more than 15 million kVA.

Along the 1,229 track miles of electrified railway lines in the Traction Sub-stations. Union, the Commission owns 51 sub-stations for converting power from alternating to direct current for traction purposes.

Number

The total number of all classes of consumers supplied with electricity from the Commission's various Undertakings at 31st December, 1943, was 12,285.

These include the South African Railways and Harbours Administration, many Municipalities taking bulk supplies for house to house distribution and also the Victoria Falls and Transvaal Power Co., Ltd., which takes the bulk of the output of the Commission's Witbank Station and the whole output of the Commission's Klip Station for supply to the gold mining and other industries along the Reef. The output of the Vaal Power Station will also be supplied to that Company for similar purposes.

and Cost of Coal Burnt.

Tonnage

Up to the end of 1943 a total of more than 30 million tons of coal had been burnt in all the Commission's power stations at a total cost of approximately £8,227,900, of which about £3,500,000 represented railage charges.

Sales of electricity over the same period totalled more than 35,500 million units. The total sales of electricity by all other producers in the Union for the year 1942—the latest available statistics—amounted to 2,447 million units as compared with

4,321 million units sold by the Commission during that year, the Commission's sales representing nearly 64 per cent. of the total.

During the first few months of its existence, the Commission Early Operations. had numerous difficulties to surmount and many of its most important and complex problems to solve. Such matters as railway electrification of the Cape Town suburban lines; the taking over of the Colenso Power Station and the traction substations, then under construction for the Railway Administration in connection with the electrification of the Natal main line between Glencoe and Pietermaritzburg, and the establishment of new power stations at Cape Town, Durban, Sabie and Witbank, were all dealt with during the first strenuous year.

Sabie Under-taking. Electricity was first supplied by the Commission in November, 1925, from its small hydro-electric power station, which consisted of a 350 kilowatt set, and had been erected on the Malieveld Spruit, about six miles from Sabie Township, Eastern Transvaal, as a stop-gap scheme pending the completion of the Commission's 1,350 kilowatt hydro-electric station, then under construction in the Sabie River Gorge, to augment the urgent power requirements of the gold mines in the Sabie district. The Malieveld station was closed down in May, 1927, and subsequently dismantled.

The Commission established its headquarters at Johannesburg on 1st May, 1923, and occupied leased premises until August, 1936, when it moved into its own new building, Escom House.

Headquarters.

> One of the outstanding landmarks in the City and embodying many interesting features, Escom House was officially opened on 22nd June, 1937, by General the Rt. Hon. J. C. Smuts in the presence of a distinguished gathering of more than 1,000 guests who came from all parts of the Union.

Pending the taking over of the 60,000 kilowatt power station Natal Central Under-taking. at Colenso and the traction substations between Glencoe and Pietermaritzburg from the Railway Administration in January, 1927, the Commission arranged to purchase from the Administration a bulk supply of electricity for resale to industrial and other consumers along the route of the electrified line. The Ladysmith Municipality was the first consumer to be supplied under this arrangement in March, 1926. To-day electricity is supplied from

Colenso Power Station, not only for railway traction purposes over the Natal main line between Volksrust and Durban and between Ladysmith and Harrismith in the Orange Free State, but also to most of the towns and villages in Natal and to several townships and villages across the borders of the Transvaal and the Orange Free State. The present installed capacity of Colenso Power Station is 85,000 kilowatts but an additional 25,000 kilowatt set is on order and further extensions are planned.

By May, 1926, the supply of electricity was commenced from Witbank Underthe Commission's Witbank Power Station, when the first of the taking. three original 20,000 kilowatt generating sets went into operation. Established primarily to augment the expanding power requirements of the Witwatersrand gold mining industry, this station, which now has an installed generating capacity of 108,000 kilowatts, was constructed for and on behalf of the Commission by the Victoria Falls and Transvaal Power Co., Ltd., and is operated by the Company as an interconnected unit of its power supply system along the Reef. In addition to providing the urgent additional power requirements of the Witwatersrand gold mines, the arrangements made with the Falls Company also gained for the gold mining industry and the Company's other consumers a substantial reduction in tariffs. Besides the principal consumer almost all the Collieries, the Witbank and Middelburg Municipalities, two large electro-chemical and other industries in or adjoining those Municipalities are to-day supplied with electricity from the Witbank

Power Station.

By reason of its situation on the coal fields, very cheap electricity is available from the Witbank Power Station.

The Commission's large dam on the Great Olifants River, constructed for the storage of water for the Witbank Power Station's requirements, was also the means of solving the water supply problem previously confronting the Witbank Municipality.

Cape Town Under-taking.

The Railway Administration's decision to electrify the Cape Town suburban railways resulted in the establishment of the Commission's Salt River Power Station and the agreement between the Commission and the Cape Town City Council providing for the interconnection of the new station and the Corporation's existing station at Dock Road and the interchange of power.

Prior to the completion of Salt River Power Station, the Commission had entered into power supply agreements with a number of consumers, situated in the rural districts outside the Cape Peninsula, who were contemplating either the erection of new power plants or the extension of their existing plants, and, by arrangement with the Cape Town Corporation, these consumers were supplied, in the interim, from Dock Road Power Station over a 33,000 volt transmission system established by the Commission. The supply of electricity over that system was commenced in June, 1926.

Salt River Power Station, with an initial installation of 30,000 kilowatts of generating plant, started up on partial load in February, 1928, pending commencement of electric working of the Wynberg-Simonstown railway service at the end of June, 1928, when continuous operation of the Station began.

Towards the end of 1931, growth of load on the Commission's Cape Rural system, which had by then been extended to supply the towns of Paarl, Malmesbury and Stellenbosch, and development of farm supply schemes in the wine producing areas, together with the rapidly increasing requirements of the municipal consumers, due largely to the Council's attractive facilities for the hire-purchase of domestic electrical appliances, necessitated the provision of additional generating capacity. An agreement was, therefore, entered into between the Commission and the Council for the pooling of their power resources and as a result of that agreement the capacity of the Commission's Salt River Power Station was trebled by May, 1935, the station's total installation then being 90,000 kilowatts.

The load on both the Commission's and the Council's systems continued to grow to such an extent, however, that it was shortly afterwards decided to erect a new power station to be owned by the City Council and operated under the pooling arrangements. That station, known as Table Bay Power Station, now has an installed capacity of 120,000 kilowatts, and is ultimately to be extended to a total capacity of 200,000 kilowatts.

First Sales of Electricity.

The year 1926 marked the commencement of supplies of electricity by the Commission on a fairly substantial scale. The total sales for that year amounted to 161,758,522 units (including 75,943 units supplied in November and December, 1925, by the temporary Malieveld Power Station). That total was about the same as the combined sales in 1926 of the three largest municipal electricity Undertakings in South Africa, namely, Johannesburg. Durban and Cape Town.

A statement showing sales of electricity year by year to the end of 1943 is included in this Report.

Durban Under-taking.

At the invitation of the Durban Town Council, the Commission, shortly after its inauguration, attended a conference there in connection with the erection of a new power station to provide for the growing requirements of the Municipality and the Railways and Harbours Administration in the Durban area. An agreement was subsequently entered into with the Council for the construction by the Commission of a new power station at Congella, Durban, and the supply of electricity in bulk to the Municipality. The agreement also provided for the new station to be connected with the Municipal Station at Alice Street to enable the one to act as a standby to the other and for the interchange of electricity.

24,000 kilowatts. The present installed capacity is 98,000 kilowatts and, when the extensions now in progress are completed, the station will have a total generating capacity of 178,000 kilowatts. The installed capacity of the Durban Corporation's power station when negotiations were started with the Commission was 14,950 kilowatts (including about 1,500 kilowatts of obsolete plant), and the maximum demand on the Municipal system was only 9,000 kilowatts.

given in July, 1928, when the installed generating capacity was

A supply of electricity from Congella Power Station was first

Congella Power Station is now also interconnected with the Colenso Power Station to enable a limited amount of power to be transmitted in either direction in case of an emergency.

Congella Power Station also supplies electricity to the Natal South Coast resorts as far away as Ramsgate, almost 100 miles from Durban.

Steady progress was maintained at all of the Commission's Undertakings throughout the period of world-wide economic Economic Depression depression from the end of 1929 to the end of 1932, and it is

Trend during

1929-1932.

purposes showed a marked upward trend during those years.

Klip Generating Station Undertaking.

The great expansion of the gold mining industry and the general prosperity which followed the Union's departure from the Gold Standard at the end of 1932, created an enormous demand for electricity.

Increased demands for power were made to the Victoria Falls and Transvaal Power Co., Ltd., by consumers in the Company's area of supply, which includes the large majority of the gold mining companies in the Witwatersrand area, and applications for a supply of electricity in areas outside and contiguous to the Falls Company's area, were received by both that Company and the Commission. Negotiations were, therefore, entered into between the Commission and the Falls Company with the object of producing power on the most economical basis in the interests of consumers as a whole. Having regard to the Commission's statutory functions and duties and to the fact that the electricity undertaking of the Falls Company may, at the discretion of the Governor-General, be expropriated by the Commission at or after a prescribed period, an agreement was entered into between the Commission and the Falls Company, with the approval of the Electricity Control Board, providing inter alia:—

- (a) that a new generating station be constructed and operated by the Falls Company on behalf of the Commission;
- (b) that the Commission should apply to the Electricity Control Board for a licence to supply power to consumers within the new area and that the licence should be ceded to the Falls Company;
- (c) that, in the event of the Falls Company deciding to increase, within the limits authorised by its licences, its electrical generating plant, either by installing new plant or replacing existing plant with plant of a greater capacity, it shall, before doing so, obtain the approval of the Commission;
- (d) that the agreement shall remain in force for so long as the Falls Company is carrying on under the Act the business of an authorised and licensed undertaker.

In terms of the abovementioned agreement with the Falls Company, the Klip Power Station was established about four miles from Vereeniging, adjacent to a new colliery shaft from which coal is mechanically delivered right into the station bunkers. This station was designed early in 1934 for an initial installation of 106,000 kilowatts of generating plant, capable of extension to a capacity of 350,000 kilowatts; but, only two years later, the demand for power for mining purposes had grown to such an extent that it was decided to increase the capacity of the Station to 424,000 kilowatts. Supply was commenced in March, 1936, when one 33,000 kilowatt turbo alternator set was commissioned and, thereafter, each set was pressed into service immediately after erection.

"Klip" has the distinction of being the largest steam power station in the Southern Hemisphere, with probably the greatest output of any steam station in the world, and its present low cost of production (0.096d. per unit) is, as far as is known, unequalled by any other similar station.

Vaal
Generating
Station
Undertaking.

t

Even the extended Klip Power Station was not expected to keep pace with the anticipated power requirements for mining development and so, in 1938, before that station was completed, the Commission, in co-operation with the Falls Company, decided to erect a new power station—to be known as the Vaal Power Station—on the Orange Free State side of the Vaal River, about 12 miles from Vereeniging. That station is also being constructed by the Falls Company and will be operated by it on the Commission's behalf.

Vaal Power Station was planned to have 108,000 kilowatts of generating plant installed initially, to be extended later, if necessary, to 400,000 kilowatts. Orders for three 33,000 kilowatt Ljungstrom turbo alternator sets were placed in September, 1939. with the manufacturers in Sweden, but, although manufacture has been completed, war conditions have prevented delivery of the plant. Further plant was subsequently ordered from Great Britain and the first turbo alternator set is expected to be placed in service shortly. The retardation of mining operations during the war has. however, made the necessity for this station less urgent.

By contributing £124,875 towards the cost of the Vaalbank Supply for Klip and Vaal Dam, the Commission obtained the right to abstract 185 million gallons of water per day from the Vaal River and thus ensured Stations.

Water

an adequate supply of water for cooling and other purposes for both Klip and Vaal Power Stations.

Under-

The Commission takes this opportunity of recording its thanks for the valuable co-operation of these bodies and its appreciation of the cordial relationship which has characterised the long association with them.

The Commission also wishes to acknowledge the great importance and effect of the South African Railways and Harbours Administration's progressive railway electrification policy on the expansion of the Commission's activities, particularly in the small towns and villages along the routes of the electrified lines, and further to express its thanks for the co-operative assistance received from the Administration's officials.

During the early negotiations mentioned herein, the Commission and the other parties concerned were fortunate in having the benefit of the wide knowledge and experience of the late Mr. Chas. H. Merz (member of the London firm of Merz & McLellan, the eminent electrical consulting engineers), whose death was one of the tragedies of the present war and whose passing was deeply

regretted and mourned by a host of friends and colleagues in many parts of the world.

Influence of Commission. The transcending influence of the Commission's activities is noticeable throughout the Union, not only in its own areas of supply, which include many rural communities, hamlets and hundreds of farms, but also in areas of other suppliers, particularly in the field of price reduction and the consequent widespread and diverse use of electricity.

The following is a brief review of the Commission's operations for the year 1943:—

Another function delegated to the Commission under the Electricity Act is to report to the Administrators of the several Provinces upon proposals for new municipal electricity schemes or extensions to such undertakings already in existence, and in such reports to state whether the Commission can itself furnish a supply with advantage to the interests of ratepayers and consumers. While the Commission's function in this respect is purely advisory, it has, in a number of instances, been the means of bringing about co-ordination of electricity production and supply. Evidence of the Commission's efforts in this direction can be found among the many smaller municipalities obtaining supplies of electricity from larger neighbouring municipalities or other power supply undertakings. The scope for co-ordination along these lines is, however. limited owing to the distances separating main centres of electricity production and the scattered situation of the smaller towns.

Other directions in which the Commission has been of assistance to municipal electricity undertakings include the introduction of a standard form of accounts, the co-ordination of statistical information and advice on tariffs and financial questions.

Up to the end of 1943 the Commission had issued 496 reports on municipal electricity schemes. Of these 169 were in respect of new schemes. In addition, 245 supplementary reports and reports on tenders had been issued by the Commission at that date.

OUTPUT AND SALES. For the first time during the period of the war, and also since

1931, the Commission has to record a decrease in its total output and sales of electricity.

The total number of units generated at all stations in 1943 was 4,420,651,109, which was 53,998,145 units less than the previous year's total and represents a drop of 1.21 per cent.

Sales of electricity generated in the Commission's own power stations and purchased from outside sources for supply to the Commission's consumers during the year decreased by 45,218,564 units (1.05 per cent.) to 4,275,629,854 units compared with the sales for 1942.

An analysis of the figures shows that decreases occurred in bulk supplies from the Klip and Witbank Undertakings, used mostly for mining purposes, and in traction supplies from the Cape Town Undertaking, due to the curtailment of suburban railway services and the reduction of train speeds as a wartime measure. Sales for industrial purposes from the Cape Town, Sabie and Witbank Undertakings were also less than in the previous year. On the other hand, sales for traction purposes for the Natal, Pretoria and Reef railway systems were greater than in 1942, and domestic and street lighting sales from all Undertakings showed appreciable increases.

Sales for 1943 from each of the Commission's Undertakings and the distribution of total sales to the various classes of consumers are summarised hereunder, showing the increases or decreases over the preceding year:—

ELECTRICITY SALES FROM UNDERTAKINGS.

				TT' C'1.3	Difference be	
Under	rtaking.			Units Sold during 1943.	1942 and 1943 Units.	Percentage.
Natal C	entral			312,387,660	$+\ 4,663,519$	+1.52
Witbanl	k			849,119,231	$-24,\!321,\!229$	-2.78
Cape To	OWH			145,739,820	-6.030,082	-3.97
Durban				293,366,350	$\pm 19{,}617{,}742$	$+7 \cdot 17$
Sabie				5,930,089	$-405,\!307$	-6.40
Klip		• • •	•••	2,669,086,704	-38,743,207	-1.48
	Total			4,275,629,854	$-45,\!218,\!564$	- 1.05

DISTRIBUTION	OF	SALES	TO	VARIOUS	CLASSES	OF	CONSUMERS.

Class of Supply.				1943.	Percentage increase/decrease over 1942.
Bulk Supplies:					
Mining, etc.	•••			3,257,442,242	-2.03
Municipal			• • •	350,563,136	+9.61
Direct Supplies for:					
Traction			• • •	418,110,549	-1.35
Mining	• • •		•••	53,862,125	$+4\cdot31$
Industrial				172,448,134	-3.75
Domestic and S	treet Ligh	iting		23,203,668	+8.00
				4,275,629,854	-1.05
				which winds from State States	

FINANCIAL.

The Commission's loan capital at the date of the Balance Sheet remained unchanged at the previous year's total of £21,750,000.

The amount in the Reserve Fund at 31st December, 1943, stood at £2,030,104, and the Redemption Fund at that date amounted to £4,748,087, which exceeded the amount required for the redemption of the loans over the periods fixed by the Commission, as referred to in the Auditors' Report. This excess includes the proceeds from sales of assets and profits on realisation of investments. Moreover, yields on securities purchased since June, 1941, for Redemption Fund investments were lower than the rate of $3\frac{1}{2}$ per cent. stipulated in the Act on which the valuation of the Redemption Fund must be based, and in order to provide for this deficiency the excess has been retained in the Redemption Fund.

The book value of securities, representing investments in Government, Municipal, Rand Water Board, Electricity Supply Commission stocks, and First Mortgages on Freehold Properties, held by the Commission on behalf of the various funds at 31st December, 1943, was £7,072,813, the nominal value being £7,099,857. The market value of these investments at that date was £7,482,009.

Expenditure on Capital Account during the year amounted to £1,405,430, which brought the total capital expenditure at 31st

December, 1943, to £23,286,754. The expenditure on Capital Account will amount to approximately £24,600,000 on completion of all the works to which the Commission is at present committed.

Revenue, production costs and other important figures relating to the operation of the Commission's Undertakings during the year 1943, with the comparative figures for 1942, are as follows:—

	1943.	1942.	Difference
Total Revenue	£3,189,782	£3,138,147	+1.65%
Total Production Costs (including interest, redemption and reserve fund charges)	£3,185,146	£3,134,331	+1.62%
Excess of Revenue over Production Costs	£4,636	£3,816	÷ £820
Average price per unit sold	0·1743d.	0· 16 97d.	+2.69%
Average revenue per unit sold (including Sundry Revenue)	0·1790d.	0·1743d.	+2.69%
Average cost per unit sold	0·1787d.	0.1741d.	+2.67%
Total cost of coal consumed, including railage	£925,668	£898,819	$\pm2\cdot99\%$
Railage on coal consumed	£278,683	£283,398	-1.66%
Coal consumed (in tons of 2,000 lbs.)	3,584,873	3,586,919	-0.06%

GENERAL.

The additional 25,000 kW. turbo alternator set, which was in course of erection at Colenso Power Station at the date of the previous Report, was placed in commercial operation on 1st July, 1943. This plant has afforded much needed relief as operating conditions were becoming very difficult. A further 25,000 kW. set for this station is now being ordered.

The expectation that the new Vaal Power Station would be in partial operation towards the end of 1943 did not materialise as certain essential equipment was lost at sea through enemy action and the first set is now expected to be in service only towards the end of 1944.

Completion of the Congella Power Station extensions, which were commenced early in 1939, is still being held up pending replacement of the turbine (also lost at sea last year) of the partially erected 40,000 kW. set. An order for a duplicate turbogenerator set is now being placed for the further extension of this station.

ANNEXURES.

The Commission submits for the year 1943, with this Report:

ANNEXURE "A."

The Report of the Auditors.

Balance Sheet.

Schedule of Expenditure on Capital Account.

Statement showing the Investments of the Redemption Fund.

Account No. 1.—Redemption Fund Account.

Account No. 2.—Reserve Fund Account.

Revenue and Expenditure Accounts in respect of:

Account No. 3—Natal Central Undertaking.

Account No. 4.—Witbank Undertaking.

Account No. 5.—Cape Town Undertaking.

Statement of Pooled Costs, Cape Town.

Account No. 6—Durban Undertaking.

Account No. 7.—Sabie Undertaking.

Account No. 8.—Klip Generating Station Undertaking.

Account No. 9.—Rand Extension Undertaking.

ANNEXURE "B."

- Statement No. 1.—Summary of Principal Plant and Equipment installed at the Commission's several Undertakings as at 31st December, 1943.
- Statement No. 2.—Summary of Principal Plant and Equipment in course of installation or on order as at 31st December, 1943.

Statement No. 3.—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 1943.

Statement No. 4.—Units sold to all consumers during the past nineteen years.

Statement No. 5.—Distribution of units sold during 1941, 1942 and 1943 as between the various classes of consumers.

Statement No. 6.—Power Station Statistics, 1941, 1942 and 1943.

Statement No. 7.—Particulars of coal used at the Commission's Steam-raising Power Stations during 1941, 1942 and 1943.

ANNEXURE "C."

Union Statistics relating to the production and distribution of electricity, extracted from the 1941/42 Industrial Census, are published in this Report by the courtesy of the Union Census and Statistics Office.

I have the honour to be

Sir,

Your obedient servant,

H. J. VAN DER BIJL, CHAIRMAN.

STAFF.

The staff employed by the Commission at Head Office and the various Undertakings, excluding Klip and Witbank Power Stations which are operated by the Victoria Falls and Transvaal Power Co., Ltd., on behalf of the Commission, numbered 586 Europeans and 652 non-Europeans at 31st December, 1943. Of these, 49 European and 4 coloured employees are on active service. Maintenance of the essential services rendered by the Commission precluded the release of a larger number of employees, and permission had, therefore, to be refused to many more of them who were keenly desirous of joining the Forces.

The Commission desires to express to all members of the staff its sincere appreciation of their loyal and conscientious efforts which have contributed so largely to the achievements recorded herein.

ADDENDUM TO REPORT.

The achievements recorded in this Report, which marks the twenty-first anniversary of the establishment of the Commission, pay eloquent tribute to the outstanding ability of Dr. H. J. van der Bijl, under whose Chairmanship the Commission has functioned continuously since its inception twenty-one years ago, and we, his colleagues, wish to take this opportunity of congratulating him on his long and distinguished services to South Africa in so many spheres and especially to record our great appreciation of those personal qualities which have proved of such incalculable benefit

personal qualities which have proved of such incalculable benefit to the Commission.

A. M. JACOBS,
R. B. WATERSTON,
W. P. M. HENDERSON,

Commissioners.

ANNEXURE "A."

THE REPORT OF THE AUDITORS.

Johannesburg, 26th May, 1944.

The Chairman and Members,
Electricity Supply Commission,
Johannesburg.

GENTLEMEN,

We have completed the audit of the books and accounts of the Commission for the year ended 31st December, 1943.

REDEMPTION FUND.

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

We find that in the aggregate the amount in the Fund at 31st December, 1943, is materially in excess of the sum required to provide for the redemption of the respective loans over the maximum periods laid down in terms of issue. For reasons, which appear to us to be justifiable and sound, the Commission has, in certain cases, caused provision to be made for the redemption of the loans over a shorter period than the maximum prescribed. The amount in the Fund at 31st December, 1943, is in excess of the amount required to provide for redemption of the loans over the shorter periods so fixed by the Commission.

The date from which redemption of Loan No. 10 shall commence has been fixed by the Minister at 1st December, 1943, but in the case of Loan No. 11, which was issued in July, 1941, the Commission has not yet applied to the Minister to fix the date from which redemption shall commence in terms of Clause 16 (2) of the Schedule to the Electricity Act, 1922. This is due to the fact that owing to war conditions, portions of the plant for which this loan was raised are not yet in commercial operation. For other portions which have come into commercial operation appropriate provision has been made, in anticipation, for the redemption of the loan moneys utilised to meet such expenditure.

Provision has also been made for the redemption of such moneys expended in anticipation of raising Loan No. 12 as are represented by plant which has come into commercial operation.

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

The gross amount of this expenditure is slightly more than the corresponding figure for the previous year. It includes, inter alia,

(1) Cost of the publicity department, including the publication of the Escom Magazine;

- (2) Cost of operating Escom House, less rents received; and
- (3) Certain expenditure in connection with the London Office.

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

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

The amount remaining, which is less than the corresponding amount for 1942, has been charged against the Revenue Accounts of all the Undertakings in commercial operation. In the case of the Klip, Rand Extension and Witbank (Power Station) Undertakings, the amount is determined by agreement with The Victoria Falls and Transvaal Power Company, Limited. The expenditure charged to the other undertakings has been apportioned by the Commission. We have no reason to disagree with the allocation so made.

WITBANK UNDERTAKING.

Arising out of a difference of opinion on the interpretation of Section 9 (2) of the Electricity Act, 1922 (as originally enacted) and its effect on the section of the Agreement between the Commission and The Victoria Falls and Transval Power Company, Limited, dated July, 1924, which deals with the amounts to be set aside to the Reserve Fund for the Witbank Power Station, the Company requested that the contributions made by it for the years 1941 and 1942 should be refunded, those for the period July, 1941, to December, 1942, having been paid without prejudice.

The Commission at no time accepted the Company's interpretation of Section 9 (2) of the Electricity Act (subsequently amended during the Session of Parliament in 1943) nor its interpretation of the section of the Agreement referred to above. A settlement was negotiated whereby

- (1) With the approval of the Governor-General, that portion of the amount set aside to the Reserve Fund in respect of 1941, which referred to the Witbank Undertaking, has been amended by the elimination of the amount of £15,713 6s. 10d. collected in respect of the Power Station Section during the six months from 1st July to 31st December, 1941, and
- (2) The Commission relinquished its intention of transferring to Reserve Fund the amount of £31,144 6s. 4d. held in suspense at 31st December, 1942, as referred to in our last annual report.

Both the amounts referred to in (1) and (2) are shown on the credit side of the Revenue Account of this Undertaking for the year 1943.

Provision has been made in the accounts for the year 1943 for a refund to the Company of £28,557 4s. 4d., representing that proportion of the amounts referred to above, as had previously been borne by the Company.

The Commission is making a rebate to other consumers on charges for electricity supplied in the year 1944 in order to adjust the accumulated surplus on Revenue Account which arises in part from the above transactions.

KLIP UNDERTAKING.

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

RAND EXTENSION UNDERTAKING.

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

GENERAL.

As the result of our audit of the books and accounts of the Commission for the year 1943, and, subject to the foregoing remarks, in terms of Clause 13 (4) of the Electricity Act, 1922, we certify as follows:

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

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

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

Yours faithfully,

B. HALSEY, ALEX. AIKEN & CARTER.

Incorporated under the

BALANCE SHEET at

Loan Capital		•••				£21,750,000	0	(
Loan No. 1: Government of the Union of	South	Africa	£3,000,000		0			
Loan No. 2: Government of the Union of	South	Africa	5,000,000	0	0			
			8,000,000	0	0			
Less—Repaid during 1933 and	1 1934		8,000,000	ŏ	ő			
Local Registered Stocks—								
Loan No. 3: 43 per cent., 1953/63			500,000	0	0			
Loan No. 4: $4\frac{1}{2}$ per cent., 1953	•••	•••	2,500,000	ŏ	ő			
Loan No. 5: $3\frac{3}{4}$ per cent., $1954/64$	•••	•••	6,750,000	0	0			
Loan No. 6: $3\frac{1}{2}$ per cent., $1959/64$	•••	•••	2,500,000	0	0			
Loan No. 7: $3\frac{1}{4}$ per cent., $1956/66$	•••	•••	2,000,000	0	0			
Loan No. 8: $3\frac{1}{2}$ per cent., $1957/67$	•••	•••	2,000,000	0	0			
Loan No. 9: 3\frac{3}{4} per cent., 1959/64 Loan No. 10: 3\frac{3}{4} per cent., 1960/65	•••	•••	2,000,000	0	0			
Loan No. 11: $3\frac{1}{4}$ per cent., $1900/65$	•••	•••	1,500,000	$0 \\ 0$	$0 \\ 0$			
30an 140. 11. 04 per cent., 1501/00	•••	•••	2,000,000		_			
Interest Accrued on Loan Capital		•••				109,329	12	
Sundry Loans and Amounts Outstanding Acquired		Rights				100 001 7	10	
Heliomana Manus Barril	•••	•••	e 200	Ω	0	129,821	1.)	
Volksrust Municipality	•••	•••	8,380 $19,159$		4			
Rand Water Board	•••	•••	89,834	2	9			
Caledon Municipality	•••	•••	7,381	$\bar{6}$	$-\overset{\circ}{5}$			
Rawsonville Village Management Board			5,066	6	$\tilde{8}$			
Sundry Creditors and Credit Balances	•••	•••				676,565	10	1
Barclays Bank (Dominion, Colonial and Over		Tem-				010,503	1.0	.1.
porary Advances, less Cash on Current Ac	count					528,505	4	
Advances at Call		• • •				639,500	0	,
Pension Fund	•••					221,756	0	9
Redemption Fund (as per Account No. 1)	•••	•••				4.748,087	0	
Sinking Fund (Umkomaas Town Board Loans)							1	
Sundry Loans Repaid						49,332		
Docorus Fund (on man Assessed N. O.)	•••	•••						
· -	•••	•••				2,030,104	2	_
Balance on Revenue Accounts (As per Accounts Nos. 3 to 7)	•••	•••				110,410	1 1	1
Notal Control Undertaking			24,292	5	7			
Witbank Undertaking	•••	•••	65.519	9	- 6			
Cape Town Undertaking	•••	•••	8,342					
Durban Undertaking	•••	•••	12.060		$\frac{1}{5}$			
Sabie Undertaking	•••	•••	195		$\frac{2}{2}$			
Note.—In addition to the liabilities show	1							
Commission is committed to the								
approximately £1,185.000 for exp	enditu	210 OF						
Capital Account and £206,550		geable						
against Reserve Fund.	(11001	Bearing						
•		•				£30,996,907]	14	_

J. VAN NIEKERK, Chief Accountant.

H. J. VAN DER BIJL, Chairman.

Johannesburg, 21st April, 1944.

Electricity Act, 1922. 31st DECEMBER, 1943.

Commission.

Expenditure on Capital Account (As per Schedule attac		•••	•••	•••				£23.286,753 10
Land and Rights	•••	•••		•••	£297,985	18	3	
Buildings and Civil Works		•••			6,049,296			
Machinery and Plant	· • • •	•••	•••	•••	16,939,471		9	•
Movable Plant and Equipment	(less	depreciat	ion)					· 78,377 5
Workshop Equipment, Inst	trume	ents, Tools	and	Loose				10,511 9
Plant	•••	•••	•••	•••	30,555	6	11	
Transportation Equipment		•••	•••	•••	9,161	9	1	
Furniture and Office Equipm	nent	•••	•••	•••	38,660	9	6	
Stores and Materials	•••	•••	•••					309,578 10
Sundry Debtors and Debit Bal	ances	•••		•••				249,385 1
Investment of Pension Fund	•••							221,534 10
Amount invested in Stocks city Supply Commission Water Board and Fir Properties	ı. Mı	$oldsymbol{micipalitie}$	s and	Rand	220,729	อั	8	
Interest Accrued	•••	•••	•••	•••	805	_		
				-				
Investment of Redemption Fun (As per Schedule attached)	ıd	•••	•••	•••				4,769,606 12 10
Investment of Sinking Fund								3.519 4
Amount invested in Stoc Commission, the Govern	ment	f Electric of the Un	ity 9	Supply South				0,910 T
Africa and Municipaliti	es	•••	• • •	• • •	3,502		9	
Interest Accrued	•••	***	•••	•••	16	19	4	
	 and	 Securities	 of B	 Zlectri-				2,078.152 19 13
Amount invested in Stocks city Supply Commissio Union of South Africa	n. th	e Governi Municipal	nent itiou		9.005.090	10	0	
Amount invested in Stocks city Supply Commissio Union of South Africa Interest Accrued	n. th	e Governi Municipal	nent ities	 	2,065,026 $13,126$		8	

£30,996,907 14 6

Referred to in our Report of 26th May, 1944.

ALEX. AIKEN & CARTER, Auditors.

B. HALSEY,

SCHEDULE OF EXPENDITURE ON CAPITAL

Expenditure in connection Electricity Undertakin	1	Total to 31st December, 1942.			Year ended 31st December, 1943.				Total to 31st December, 1943.			
NATAL CENTRAL UNDERT	AKIN	G:										hanning and
Land and Rights Buildings and Civil Works Machinery and Plant	•••	•••	£24,689 $799,136$ $3,608,707$	17	$\begin{smallmatrix} 4\\11\\1\end{smallmatrix}$		27	19		£24,542 $802,264$ $3,661,994$	17	10
		The state of the s	£4,432,534	0	4	£56,2	68	2	7	£4,488,802	2	11
WITBANK UNDERTAKING:												
Land and Rights Buildings and Civil Works Machinery and Plant	•••	•••	£10,305 $631,035$ $1,989,178$	2	$\begin{array}{c} 2 \\ 8 \\ 11 \end{array}$	£ 9,9 30,6	59			£10,352 $640,994$ $2,019,804$	19	
			£2,630,519	8	9	£40,6	32	14	1	£2,671,152	2	10
CAPE TOWN UNDERTAKIN	IG:											
Land and Rights Buildings and Civil Works Machinery and Plant	•••	•••	£27,820 $968,874$ $1,926,552$	3	$\begin{array}{c} 10 \\ 7 \\ 3 \end{array}$	£2. 8,3 76,6	76	4	6 0 8	£28,076 $977,250$ $2,003,183$	7	$\begin{array}{c} 4\\7\\11\end{array}$
			£2,923,247	17	8	£85,2	63	2	2	£3,008,510	19	10
DURBAN UNDERTAKING:												
Land and Rights Buildings and Civil Works Machinery and Plant	•••	•••	£31,143 $777,657$ $1,437,330$	-8	$\begin{array}{c} 6 \\ 2 \\ 10 \end{array}$	£31,6 251,4		$\frac{1}{8}$	3 1	£31,143 809,349 1,688,808	$\begin{array}{c} 6 \\ 9 \\ 4 \end{array}$	
			£2,246,131	11	6	£283,1	69	9	4	£2,529,301	0	10
SABIE UNDERTAKING:												
Land and Rights Buildings and Civil Works Machinery and Plant	•••	•••	£510 $60,464$ $35,169$	18	5	£	25	12 —	10	£510 60,490 35,169	11	3
			£96,144	13	3	£	25	12	10	£96,170	6	1

Johannesburg,

21st April, 1944.

Commission.

ACCOUNT TO 31st DECEMBER, 1943.

Expenditure in connection with Electricity Undertakings.	Total to 31st December, 1942.	Year ended 31st December, 1943.	Total to 31st December, 1943.
KLIP GENERATING STATION UNDERTAKING: Land and Rights Buildings and Civil Works Machinery and Plant	$\mathfrak{L}127.975 0 0 \\ 1.574.115 17 10 \\ 4.806.316 2 7$	£4.602 10 2 24.674 1 8	£127,975 0 0 1,578,718 8 0 4,830,990 4 3
	£6,508,407 0 5	£29,276 11 10	£6,537,683 12 3
RAND EXTENSION UNDERTAKING:	610.272.10	660 10 - 6	610.015 10.0
Land and RightsBuildings and Civil WorksMachinery and Plant	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	£10,315 12 2 14,298 12 11 898,332 11 6
	£834,101 14 6	£88,845 2 1	£922,946 16 7
VAAL GENERATING STATION UNDERTAKING:			
Land and Rights Buildings and Civil Works Machinery and Plant		$\begin{array}{c cccc} £46 & 5 & 3 \\ 81,102 & 15 & 8 \\ 740,800 & 5 & 1 \end{array}$	£5,484 17 5 $834,033$ 10 10 $1,801,187$ 14 10
	£1,818,756 17 1	£821,949 6 0	£2,640,706 3 1
ESCOM HOUSE:	£59,585 3 0		£59,585 3 0
Building and Equipment	331,895 2 8		331,895 2 8
	£391,480 5 8		£391,480 5 8
SUMMARY:			
Land and Rights Buildings and Civil Works Machinery and Plant	£297,721 6 8 5,909,163 19 8 15,674,438 2 10	£264 11 7 140,132 0 5 1,265,033 8 11	£297,985 18 3 6,049,296 0 1 16,939,471 11 9
	£21,881,323 9 2	£1,405,430 0 11	£23,286,753 10 1

J. VAN NIEKERK, Chief Accountant.

Electricity

Supply Commission.

Schedule showing details of

Investments of the Redemption Fund at 31st December, 1943.

						William Control of the Control of th				
Nominal Amount.	Totals.	Loan No. 3. £500,000 43% Local Registered Stock, 1953/63.	Loan No. 4. £2,500,000 4½% Local Registered Stock, 1953.	Loan No. 5. £6,750,000 33% Local Registered Stock, 1954/64.	Loan No. 6. £2,500,000 3½% Local Registered Stock, 1959/64.	Loan No. 7. £2,000,000 3½% Local Registered Stock, 1956/66.	Loan No. 8. £2,000,000 3½% Local Registered Stock, 1957/67.	Loan No. 9. £2,000,000 3¾ % Local Registered Stock, 1959/64.	Loan No. 10. £1,500,000 3½% Local Registered Stock, 1960/65.	£2,000.000 3¼% Local Registered Stock, 1961/66.
						-		21 T S S S S S S S S S S S S S S S S S S		
£104,600 0 0 262,293 0 0 766,013 0 0	$\pounds 104,600 0 0$ $262,293 0 0$ $765.847 3 10$	$£39,150 0 0 0 \\ 1,500 0 0 \\ 10,000 0 0 $	£240,793 0 0	£65,450 0 0 15,500 0 0 681,413 0 0	£4,500 0 0	<u>-</u>	<u> </u>		 	
134,060 0 0 333,400 0 0 323,200 0 0 517,200 0 0 439,200 0 0 496,000 0 0	134,060 0 0 322,255 10 9 314,740 1 2 506,232 5 3 430,431 6 11 486,080 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	35,000 0 0 143,560 0 0 77,628 10 0 180,286 8 3 140,630 0 0 136,220 0 0	83,760 0 0 19,400 0 0 60,043 0 0 62,540 7 8 72,030 0 0 80,360 0 0	5,600 0 0 50,038 7 0 21,922 0 0 55,274 6 4 48,020 0 0 45,080 0 0	5,400 0 0 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5,601 6 11 16,660 0 0	£980 0 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5.000 0 0 79,994 9 7	5,000 0 0 56,995 19 8	5,000 0 0 46.400 0 0	5.000 0 0 51.995 19 8	16,997 9 10	7,998 9 11 2,000 0 0
4,300 0 0 20,000 0 0	4,300 0 0 20,000 0 0	_	8, 0 00 0 0	12.000 0 0	= .	=	<u>-</u>	4.300 0 0		=
		18,620 0 0	,	16,660 0 0	29,400 0 0	,		48 020 0 0	24.990 0 0	6,860 0 0
115,500 0 0	115,211 5 0		115,211 5 0	_			-			
£4.794,056 0 0		<i>'</i>		£1.710.371 18 2	£550.749 13 0	£351.527 4 11	£296.344 19 9	£231,713 12 5	£64,442 11 7	£17.838 9 11
	30,784 9 11	1,230 16 11	6,641 8 8	11.645 11 6	3.476 8 7	2.769 1 10	2,065 16 7	2.060 19 5	624 19 7	178 17 9
24,794,056 0 0	£4.769,606 12 10	£192,919 6 6	€ 1,322,716 12 3	£1.722,017 9 8	£554.226 1 7	£354.296 6 9	£298,410 16 4	£233.774 11 10	£65.067 11 2	£18,017 7 8
_	£104,600 0 0 0 262,293 0 0 0 766,013 0 0 0 134,060 0 0 0 323,200 0 0 0 439,200 0 0 0 25,000 0 0 25,000 0 0 25,000 0 0 0 25,000 0 0 0 25,000 0 0 0 25,000 0 0 0 15,000 0 0 0 15,000 0 0 0 15,000 0 0 0 15,000 0 0 0 15,000 0 0 0 150,000 0 0 0 126,000 0 0 0 126,000 0 0 0 126,000 0 0 0 126,000 0 0 0 126,000 0 0 0 126,000 0 0 0 150,000 0 0 0 150,000 0 0 0 150,000 0 0 0 150,000 0 0 0 150,000 0 0 0 150,000 0 0 0 150,000 0 0 0 150,000 0 0 0 150,000 0 0 0 150,000 0 0 0 0 150,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### Amount. ### \$\pmath{\text{\tex{	Nominal Amount.	Nominal Amount.	Nominal Amount.	Nominal Amount	Nominal Amount	Nominal Amount Totals. Local Registered Local Registered Stock, 1963/63. Local Registered Stock, 1963/64. Local Registered Stock, 1963/64.	Nominal Amount. Totals. E500.000 41% Local Registered Stock, 1953/63. E104,600 0 0 2 204,600 0 0 223,036 0 0 1,500 0 0 2210,765 0 0 15,500 0 0 5,500 0 0 0 223,036 0 0 134,600 0 0 1,500 0 0 0 210,000 0 0 220,203 0 0 0 223,036 0 0 0 1,500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Nominal Amount. Totals. E200,000 48% E25,000,000 48% E25,000,000 38% E25

£65,450 0 0 15,500 0 0 681,413 0 0 35,000 0 0 143,560 0 0 77,628 10 0 180,286 8 3 140,630 0 0 136,220 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	£17,000 0 0 5,600 0 0 50,038 7 0 21,922 0 0 55,274 6 4 48,020 0 0 45,080 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	£193 14 10 — 5,601 6 11 16,660 0 0	£980 0 0	
$\begin{array}{c} 2,725 & 0 & 0 \\ 4,000 & 0 & 0 \\ \hline 5,000 & 0 & 0 \\ 11,000 & 0 & 0 \\ 2,300 & 0 & 0 \\ 10,000 & 0 & 0 \\ 159,998 & 19 & 11 \\ 11,000 & 0 & 0 \\ \end{array}$	5,000 0 0 79,994 9 7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,000 0 0 46.400 0 0	5.000 0 0 51.995 19 8	16,997 9 10	7,998 9 11 2,000 0 0	£6,600 0 0
12.000 0 0 16,660 0 0	29,400 0 0 —		 36,750 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	24,990 0 0	6,860 0 0 —	1.470 0 0
£1.710.371 18 2 11.645 11 6	£550.749 13 0 3.476 8 7	£351.527 4 11 2.769 1 10	£296.344 19 9 2,065 16 7	£231,713 12 5 2.060 19 5	£64,442 11 7 624 19 7	£17.838 9 11 178 17 9	£8,070 0 0 90 9 1
£1.722,017 9 8	£554,226 1 7	£354.296 6 9	£298.410 16 4	£233.774 11 10	£65,067 11 2	£18,017 7 8	£8,160 9 1

Loan No. 12.

(Not yet raised.)

Johannesburg,

²¹st April, 1944.

Electricity Supply Commission.

Redemption Fund Account for the Year ended 31st December, 1943.

		Totals.	Loan No. 3. £500,000 43%	Loan No. 4. £2,500,000 4½%	Loan No. 5. £6,750,000 33%	Loan No. 6. £2,500,000 3½%	Loan No. 7. £2,000,000 3½%	Loan No. 8. $£2,000,000 3\frac{1}{2}\%$	Loan No. 9. £2,000,000 3 ³ / ₄ %	Loan No. 10. £1,500,000 3\frac{3}{4}\%	Loan No. 11. £2,000,000 $3\frac{1}{4}\%$	Loan No. 12.
			Local Registered Stock, 1953/63.	Local Registered Stock, 1953.	Local Registered Stock, 1954/64.	Local Registered Stock, 1959/64.	Local Registered Stock, 1956/66.	Local Registered Stock, 1957/67.	Local Registered Stock, 1959/64.	Local Registered Stock, 1960/65.	Local Registered Stock, 1961/66.	(Not yet raised.)
Cr.			,		,,				500CK, 1303/04.	5100K, 1900/00.	5000K, 1901/66.	
By Balance at 31st December, 1942, brought fo	rward—		050:30									The last
3		£791.108 5 8	£583 19 7	£31,532 15 0	£717.873 0 6	Necessian	£23,716 16 7	£6,712 10 5	£5.876 19 5	£4.018 6 4	£793 17 10	
0		1,082,317 2 4	1,028 4 7	750,087 1 5	286,870 5 6		26,674 14 11	11,117 7 2	3,144 18 1	3,249 13 5	135 0 5	£9 16 10
t apre 2 min a min		598,116 14 8	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	61,141 11 5	362,557 5 6		6,418 14 10	5,999 7 8	27,711 6 3	14,448 11 11	1,639 0 8	
3		517,086 12 11 67,775 4 1	50,172 8 7	307,043 11 8 51,167 10 1	108,246 6 11	Males	2,259 0 10	35,533 17 2	$7.005 ext{ } 4 ext{ } 2$	6,534 8 0	291 15 7	
	•••	891,145 6 0	Allendaria	51,167 10 1	16.607 14 0	(:190 095 17 10	107.007 5 0	142 656 15 4	110 007 7 4	10.150 4 0		_
	•••	104.850 9 6	Barrell			£428,835 17 10	187,087 5 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	113,267 1 4	18.170 4 0	128 2 6	
II 1.00°		58,239 15 9	Barraniii Barranii	2.362 11 8	18.045 18 6	42,123 3 5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	33,490 5 3	17,229 12 10	371 19 8	996 19 10	875 3 4
Head Office	•••								331 15 11	197 10 9	11 5 7	
		£4,110,639 10 11	£169,985 9 2	£1,203,335 1 3	£1.510,200 10 11	£470,959 1 3	£293,205 10 8	£236,515 3 0	£174.566 18 0	£46,990 14 1	£3,996 2 5	£885 0 2
,, Amounts Contributed during the Year out of	Revenue—											
		£93,068 12 4	£52 4 11	£3,398 2 10	£75,057 12 0	-	£4,198 4 8	£1,459 5 1	£1,793 17 1	£2.019 5 5	£5,090 0 4	-
		66,501 12 9	86 14 9	37,682 1 9	17,857 2 9	-	4,622 12 4	2,595 16 6	1,006 19 7	2,376 17 5	120 16 3	£152 11 5
-		84,958 5 5	11,195 11 2	6,472 2 9	48,163 0 4		1,118 4 8	1,385 10 5	8,879 16 0	2,722 18 5	5,021 1 8	~102 II 5 —
9		45,653 15 5	4.264 12 0	19,064 19 9	7.805 15 10	MPRODUM.	441 10 8	7,871 11 3	2,277 10 8	3.207 2 0	720 13 3	
		3,525 3 9		2,610 16 8	870 5 7				_		44 1 6	
		154,006 3 9		-		£58,636 13 3	30,111 17 7	30,828 1 7	32,661 1 9	Dr. 1,714 10 1	93 12 2	3,389 7 6
		21,715 10 7				5,548 6 9	1,713 5 3	7,207 16 8	4,830 2 7	145 2 5	440 0 11	1,830 16 0
Head Office		8,999 18 4		159 6 11	2,759 19 9		5,888 5 2		97 2 5	81 0 1	14 4 0	
		£478,429 2 4	£15.599 2 10	£69,387 10 8	£152.513 16 3	£64,185 0 0	£48,094 0 4	£51,348 1 6	£51.546 10 1	£8,837 15 8	£11,544 10 1	£5,372 14 11
" Net Proceeds of Sales of Fixed Property—												
Natal Central Undertaking		£400 0 0			£400 0 0							_
		618 2 10		£618 2 10								
		1,280 8 4		_	1.288 16 2				_	Dr. £8 7 10		
Sabie Undertaking		206 8 5			206 8 5		_			_		
		£2,504 19 7		£618 2 10	£1.895 4 7				No. of Contract of	Dr. £8 7 10		
,, Net Interest Earned on Investments, after Amounts Appropriated in Reduction of Pr Investments Purchased—												
		€29,487 19 11	£22 0 7	£1,274 18 6	£26,568 4 0		£904 0 9	£259 17 8	£222 2 11	£162 4 9	£74 10 9	
		41,825 18 5	38 15 5	29,634 0 1	10,438 11 7		1.015 6 11	432 18 0	119 9 8	140 5 1	5 19 1	- 10 5
		22,523 5 0	4.480 - 6 - 7	2,470 2 9	13,406 12 1	_	244 7 9	233 7 2	1.052 7 5	520 19 7	115 1 8	12 7
		20,048 8 0	1.894 7 2	12,188 17 6	3.954 10 8		86 15 10	$1,377 \ 14 \ 0$	266 11 4	261 7 1	18 4 5	-
_		2,624 8 0		$2.022 ext{ 4 } ext{ 1}$	601 19 2			·	Million Control		4 9	
		33,798 11 6	and the second		-	£16,185 19 5	7,086 15 0	5,555 5 7	4,247 17 3	698 5 7	5 9 3	£18 19 5
II1 OF		3,998 8 8				$1.586\ 15\ 0$	371 16 3	$1.295\ 10\ 9$	644 15 6	14 8 4	38 9 8	46 13 2
Head Office		2.206 7 10		94 1 0	680 13 0		1,410 19 5		12 8 9	7 15 3	10 5	40 10 2
		£156,513 7 4	£6,435 9 9	£47.684 3 11	£55,650 10 6	£17,772 14 5	£11,120 1 11	£9,154 13 2	C6.565 12 10	£1,805 5 8	£258 10 0	£66 5 2
Gi	rand Total	£4,748,087 0 2	£192,020 1 9	£1,321,024 18 8	£1,720,260 2 3	£552,916 15 8	£352,419 12 11	£297,017 17 8	£232,679 0 11	£57,625 7 7	£15,799 2 6	£6,324 0 3
				A STATE OF THE STA		,						20,024 U J
Dr.												
To Balance as per Balance Sheet—								-				
Notel Control Undertaking		£914,064 17 11	£658 5 1	£36,205 16 4	£819,898 16 6		690.010.0.0	60 491 19 0	£7.892 19 5	£6,199 16 6	£5.958 8 11	
Without Undertaking		1.191,262 16 4	1.153 14 9	818,021 6 1	315,165 19 10	Most rolled	£28,819 2 0	£8,431 13 2 14,146 1 8	1.271 7 4	5,766 15 11	261 15 9	
Cone Town Undertaking		706,878 13 5	133,876 14 2	70,083 16 11	425,415 14 1		32,312 14 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	37.643 9 8	17,684 2 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	£163 0 10
Durhan Undertaking		582,788 16 4	56,331 7 9	338,297 8 11	120,006 13 5		7,781 7 3	44,783 2 5	9.549 6 2	10.002 17 1	1,030 13 3	
Sabia Undertaking		74,131 4 3		55.800 10 10	18,286 7 2		2.787 7 4	44,783 2 5		10,002 17 1	1,030 13 3 44 6 3	
IZI'm Comment's a Chat's IZa I at 1.		1,078,950 1 3	** ***		10,200 7 2	£503,658 10 6	$\frac{-}{224,285}\frac{-}{17}$	$\frac{-}{180,040}$ $\frac{-}{2}$ $\frac{6}{}$	150.176 0 4	17.153 19 6	227 3 11	9 400 - 0 11
Pand Futoncian Undertaking		130,564 8 9	*- *			49.258 5 2	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	41,998 12 8	22.704 10 11	531 10 5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3,408 6 11
Hand Office		69,446 1 11	Marco Area	2,615 19 7	21,486 11 3	49,258 5 2	44,589 17 11	41,998 12 8	441 7 1	286 6 1	26 0 0	2,752 12 6
		£4,748,087 0 2	£192,020 1 9	£1,321,024 18 8	£1,720,260 2 3	£552,916 15 8		£297,017 17 8	£232,679 0 11	£57,625 7 7	£15,799 2 6	
						9 01 018 ¹ 700°	£352,419 12 11	æ491,UI1 I1 0		201,020 1 1	æ10,188 2 b	£6,324 0 3
	The second second second	A SAME OF THE PROPERTY OF THE		According to the control of the cont		The second secon				MARKET CO. C.		

J. VAN NIEKERK, Chief Accountant.

We hereby certify that we are satisfied, both as to the correctness of the Accounts and Books of the Redemption Fund and as to the Maintenance of the Fund at the amount required by the Schedule to the Electricity Act, 1922, subject to the remarks contained in our report dated 26th May, 1944.

33

Electricity Supply

Dr.

Reserve Fund Account for the

To Expenditure during the Year o	n Repla	cements	and		/100 F00	1= -
Betterment	•••	•••	•••		£102,706	Γi :
Natal Central Undertaking				£63,250 17	7	
Witbank Undertaking	•••		•••	15,763 9	4	
Cape Town Undertaking	•••	•••	•••	7,230 17	5	,
Durban Undertaking		•••		9,096 16	6	
Klip Generating Station Under	rtaking			4,850 7	0	
Rand Extension Undertaking	•••		•••	2,514 9	9	
" Adjustment of Amount set aside d	uring the	year 19	41		15,718	8 6 10
THE CARGO CONTRACT						
"Balance as per Balance Sheet	•••	•••	•••		2,030,104	1 2 7
Natal Central Undertaking	•••			$628,\!198\!-\!5$	10	
Witbank Undertaking	•••	• •••	•••	332.830 16	2	
Cape Town Undertaking		•••	•••	361.294 - 5	3	
Durban Undertaking				242,362 6	2	
Sabie Undertaking		•••		$15,277 \ 16$	4	
Klip Generating Station Unde	ertaking		•	407,304 2	6	
Rand Extension Undertaking	•••	•••	•••	42,836 10	4	
					- 1	

£2,148,524 7 0

Commission.

Year ended 31st December, 1943.

Cr.

Balance at 31st December,	-	ag.iit	iorwaru	• • •				- × 1.77.	23.23	7	8
Natal Central Undertak	ing	•••		•••	£619,556	15	5		, - -0		_
Witbank Undertaking	•••				348,570		8				
Cape Town Undertaking	;		•••	•••,	345,046	7	1				
Durban Undertaking	•••	•••	•••	•••	222,513		9				
Sabie Undertaking	•••	•••	•••	•••	14,116	12	3				
Klip Generating Station		rtaking	•••	•••	338,004	13	4				
Rand Extension Underta	aking	•••	•••	•••	35,428	18	5				
Amounts set aside during Accounts Natal Central Undertaki	•••	ear as	per Revo	•••	48 000	0	0	15	50,592	? 11	L
Accounts	•••	ear as	per Revo	enue 				15	10 ,592	? 11	L
Natal Central Undertaki Witbank Undertaking	ing 	fear as 	•••	enue 	48.000 3,549	2	0	15	50,592	? 11	L
Natal Central Undertaki Witbank Undertaking Cape Town Undertaking	ing 			•••	3,549 10.000	2	6	15	5 0 ,592	? 11	L
Natal Central Undertaki Witbank Undertaking Cape Town Undertaking Durban Undertaking	 ing 			•••	3,549 10.000 20,000	2 0 0	6 0 0	15	5 0 ,592	? 11	L
Natal Central Undertaki Witbank Undertaking Cape Town Undertaking Durban Undertaking Sabie Undertaking	ing				3,549 10.000 20,000 600	2 0 0 0	6 0 0	15	60 ,592	? 11	L
Natal Central Undertaki Witbank Undertaking Cape Town Undertaking Durban Undertaking	ing Under				3,549 10.000 20,000	2 0 0 0 5	6 0 0 0 7	15	60,592	? 11	1

Johannesburg.

J. VAN NIEKERK, Chief Accountant.

Electricity Supply NATAL CENTRAL

Br. Revenue Account for the Year

		Gen	eration o	f Flectr	icitv.				
То	Operation—	acii	oracion o	. =:00::					
10	Fuel			•••	•••	£136,626 15 4			
	Water, Oil. Waste and	Stores	•••	• • •	•••	1,749 6 5			
	Salaries and Wages	•••	•••	•••	•••	30,045 9 10			
	Other Expenses		•••	•••	•••	63 0 9			
,,	Maintenance—					7,000,10, 5			
	Stores	•••	•••	•••	•••	7,008 19 5 $16,689$ 8 6			
	Salaries and Wages	•••	•••	•••	•••	10,089 8 0 $1,580$ 19 2			
	Other Expenses	•••	•••	•••	•••	1,000 10 2	£193,763	19	5
	Electricity Purchased						307		
,,	Electricity Interchanged	•••	•••	•••	•••		742	_	
,,	Lietticity interchanged	•••	•••	•••			•		
	Operation and Maintenance		ribution	of Electi	ricity.				
,,	Stores					8,570 16 3			
	Salaries and Wages	•••	•••	•••	•••	28,683 14 4			
	Other Expenses	•••		•••	•••	8,602 9 11			
	Concr Emperate			***	***		45,857	0	6
			General	Expenses	S.				
	Local Administration and	Technic	eal Mana	gement		11.724 5 9			
,,	General Expenses (including Stores Expenses, Rates Contributions, Payment	ng Main s, Insur	itenance rance, Po	of Quar ension I	fund				
	Agreement, etc.)		•••	•••	•••	$17.357 \ 13 \ 10$			
,,	War Damage Insurance Pr			•••	• • •	6,490 4 8			
,,	Investigations and Develop	ment E	xpenses			$75 \ 13 \ 1$			
,,	Head Office Administration	\mathbf{c} and \mathbf{c}	General E	Expenses	in-	7070# 0 4			
	eluding Publicity	•••	•••	•••	•••	10,197 9 4			
,,	Engineering Expenses	•••	•••	•••	•••	5.658 7 9	F1 F00	1.	_
	Deferred Payment Scheme	. includ	ling Pro	paganda	and		51,503	14	5
,,	Showroom Expenses	´ •••	•••	•••	•••		281	15	7
							292,456	8	-7
,,	Interest	•••	•••	•••	•••		166,239	8	3
,,	Redemption Fund			···	•••		93,068		4
,,	Instalments paid on Volks	rust_Mı	anicipalit	y Loan	• • •		1,459	9	1
,,	Amount set aside to Reser	rve Fun	d	•••	•••		48,000	0	0
							£601,223	10	3
							2001,220	10	
T_{α}	Balance brought down						£1,929	1	5
	Balance as per Balance S	heet.	•••	•••	· · ·		24,292	$\tilde{5}$	7
,,	Transition as per Transition is		•••	•••	•••				
							£26,221	7	0

J. VAN NIEKERK, Chief Accountant.

Johannesburg,

21st April, 1944.

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(1)	amn	115	Stati

UNDERTAKING.

ended 31st December, 1943.

Cr.

Account No. 3.

By Sales of Electricity—							
Traction Supplies	•••	•••	•••	•••	£424,005 2 9		
Bulk Supplies	•••	•••	•••	•••	103,285 5 3		
Industrial Supplies	•••		•••	•••	40,857 13 10		
Domestic and Lighting	* *	•••	•••	•••	$26,408 \ 15 \ 8$		
Electricity Interchanged	•••	•••	•••	•••	$359 \ 1 \ 0$		
						£594,915 18	6
,, Deferred Payment Scheme	•••	•••	•••	•••		3 0	3
., Other Revenue	•••	•••	•••	•••		4,375 18	1
,. Balance carried down	•••	•••	•••	•••		1,929 1	5

	£601,223 18 3
By Bajance at 31st December, 1942, brought forward	£26,221 7 0
	£26,221 7 0

Referred to in our Report of 26th May, 1944.

ALEX. AIKEN & CARTER, B. HALSEY,

Auditors.

Commission.

UNDERTAKING.

ended 31st December, 1943.

Cr.

Electricity Supply WITBANK

Dr.

Revenue Account for the Year

		Genei	ration of	Electri	city.						
To	Operation—										
	$\mathbf{Fuel} \qquad \dots \qquad \dots$	•••	•••		•••	£ $69,508$		5			
	Water, Oil, Waste and	Stores	•••	•••	•••	7,599		9			
	Salaries and Wages	•••	•••	•••	•••	36,623		8			
	Other Expenses	•••	•••	•••	•••	1,666	16	6			
	Maintenance—										
,,	Stores				•••	12,698	7	1			
	Salaries and Wages	•••			•••	20,778	16	3			
	Other Expenses	•••	•••	• • •	•••	12,859	4	11			
	PP	•••							£161,735	4	7
	Electricity Purchased			•••	•••				164.578	9	4
"		Distri							,		
	2 1 25 1		bution of	Electr	icity.						
,,	Operation and Maintenance					1 205	10	0			
	Stores	•••	•••	•••	•••	1,305		$\frac{0}{c}$			
	Salaries and Wages	•••	•••	•••	•••	4,521		6			
	Other Expenses	•••	• • •	•••	•••	428	10	2	0.050	0	0
		_	lamanal F	vmamaaa		Manage William Programme Andrews			$6,\!256$	U	8
			ienerai E	•	•						
,,	Local Administration and	Technical	Manager	ment		11,386	18	5			
,,	General Expenses (including	ng Maint	enance o	f Quart	ers,						
	Stores Expenses, Rates	s, Insura	$_{ m nce,\ Per}$	ision F	und						
	Contributions, etc.)	•••		•••	•••	13,184	19	6			
,,	Administration, Engineering	ig and G	eneral E	lxpenses	s of						
	Operating Party (The	Victoria	Falls &	Trans	vaal		_	_			
	Power Company, Limit	ed)	 ,	•==	•••	7,000	0	0			
,,	Head Office Administrati	on and	General	Expen	ses,			_			
	_ including Publicity	•••	•••	•••	•••	7.104		_0			
,,	Engineering Expenses	•••	•••	•••	•••	3,942	5	11.			
			ъ.	,	,				42,618	18	10
,,	Deferred Payment Scheme	e, includi	ng Propa	iganda	and						_
	Showroom Expenses	•••	•••	•••	•••				53	4	7
									0.55.0.11		
									375,241		0
,,	Interest	•••	•••	• • •	•••				112,546	_9	0
,,	Redemption Fund		•••	• • •	•••				66,501		9
,,	Amount set aside to Rese	rve Fund	•••	• • •	•••				- ;	2	6
,,	Balance carried down	•••	•••	•••	•••				4,703	14	3
									0500 510		
									£ $562,542$	16	6
m	D 1 D 1 C1								60= =10	0	0
То	Balance as per Balance Sl	ieet	• • •	• • •	•••				£65,519	9	9

£65,519 9 9

Johannesburg, 21st April, 1944.

Т	VAN	NIEKERK	Chief	Accountant

By Sales	of Electricity—										
	ction Supplies	•••	•••	•••	•••	£ $182,312$	19	10			
Bul	k Supplies	•••	• • •	•••	•••	235,404	3	7			
	ustrial Supplies	•••	•••		•••	141,954	14	6			
Do	mestic and Lighting	Supplies	•••	•••	•••	9,215	10	11			
						568,887	8	10			
Les	s—Adjustment in t	terms of	Section	10	of the	,					
	Electricity Act, 1	1922	•••			15.382	5	7		_	0
									£553,505	3	3
Deferi	red Payment Scheme	•	•••	•••	•••				52	5	6
	Revenue	•••	•••	•••	•••				8,985	7	9

,		£562,542 16 6
By Balance at 31st December, 1942, brought forward		£42,515 6 8
Adjustment of amount set aside to Reserve Fund during the year 1941	£15,713 6 10	
Transfer of amount placed to Reserve Fund Suspense during the year 1942	31,144 6 4	
	46,857 13 2	
Less—Adjustment of amounts charged for sales of electricity in respect of the years 1941 and 1942	28,557 4 4	10 200 9 10
,, Balance brought down		18,300 8 10 4,703 14 3
		£65,519 9 9

Referred to in our Report of 26th May, 1944.

ALEX. AIKEN & CARTER, B. HALSEY,

Auditors.

Electricity Supply CAPE TOWN

Dr.

Revenue Account for the Year

	Gener	ration of	f Elect	ricity.						
То	Proportion of Pooled Costs (As per attached Statement)	•••	•••	•••	£246,166	0	9			
,,	Other Operation and Maintenance (Costs	•••	•••	2,378	7	5	£248,544	0	9
,,	Electricity Purchased	•••							18	
		bution o	f Elec	tricity.						
,,	Operation and Maintenance— Stores				9.710	11	0			
	Stores Salaries and Wages	•••	•••	•••	$2,710 \\ 26,337$	17	9 -5			
	Other Expenses	•••	•••	•••	5,337	0	3			
	G	eneral E	Expense	es.				34,385	9	5
	Local Administration and Technical	Manag	omon+		11.007	7	0			
"	General Expenses (including Mainte Stores Expenses, Rates, Insura:	enance c	of Qua	rters, Fund	11,087	.L	U			
	Contributions, etc.)	•••	•••	•••	13,651	14	5			
,,	War Damage Insurance Premiums	,		•••	5,881	12	0			
,,	Head Office Administration and including Publicity	General	-	-	0.515	-	0			
	Engineering Expenses	•••	•••	•••	$6,515 \\ 3,615$	$\frac{1}{1}$	$\frac{0}{7}$			
,,		•••	•••	•••						
	Less—Charged to Pooled Costs	•••		•••	$40,750 \\ 7,219$		0 7	20 500	11	_
	Deferred Payment Scheme, including	o Prop	aganda	and				33,530	1.1.	5
"	Showroom Expenses			•••				549	19	4
,,	Interest	•••	•••	•••	117,583		2	317,058	6	8
,,	Redemption Fund Instalments on Caledon Municipalit	w and	Rawso.	nville	84,958	5	5			
,,	Village Management Board Loans	y and		11 11110	773	12	11			
,,	Amount set aside to Reserve Fund	•••	•••	•••	10,000		0			
	Less—Charged to Pooled Costs				$\frac{213,315}{70.275}$	11	$\frac{-6}{1}$			
		•••	•••	•••		.1,		143,040	10	5
;,	Balance carried down	•••	•••	•••				2,911	7	4
								£463,010	4	5
То	Balance as per Balance Sheet	•••	•••	•••				£8,342	17	11
								€8,342	17	11

J. VAN NIEKERK, Chief Accountant.

Johannesburg,

21st April. 1944.

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U	omn	tis	SI	on

UNDERTAKING.

ended 31st December, 1943.

Cr.

Account No. 5.

By Sales of Electricity—									
Traction Supplies	•••	•••	•••	•••	£167,566 18	5			
Bulk Supplies	•••	•••	•••	•••	58,037 14	5			
Industrial Supplies	•••	•••	•••	•••	146,420 2	9			
Domestic and Lighting	Supplies	•••	•••	•••	89,075 19	2			
Deferred Daniel C.							£461,100	14	9
Deferred Payment Scheme Other Revenue	•••	•••	•••	•••			884	9	8
	1 0	•••	•••	•••	1,052 11	3			
$\it Less$ —Credited to Poole	d Costs	•••	•••	•••	27 11	3			
							1,025	0	0

					£463,010 4 5	- 5
By Balance Balance	at 31st] brought	31st December, 1990ught down		forward 		•
					£8,342 17 11	

Referred to in our Report of 26th May, 1944.

ALEX. AIKEN & CARTER, B. HALSEY,

Electricity Supply Commission

Dr. Statement of Pooled Costs for the Year ended

Pooled Generation of Electricity.

intenance-										
•••	•••	•••	•••	•••	£376,651	4	0			
ste and S	Stores		•••	•••	$16,\!226$	0	5			
and Othe	r Expe	nses	•••	•••	89,877	0	7			
								£ $482,754$	5	O
(including	Stores	s Exper	ises, R	ates,						
				•••	•••		•	$15,\!450$	4	0
rance Pres	niums	•••	•••	•••		•		9,061	18	0
•••	•••	•••	•••	•••		•		111,410	15	10
•••	•••	•••	•••	•••				108,521	8	11
•••	•••	•••	•••	•••		•		16,261	2	6
								£743,459	14	3
	aste and S and Othe (including ion Fund rance Pres	(including Stored ion Fund Contribution Fund Contribution France Premiums			and Other Expenses (including Stores Expenses, Rates, ion Fund Contributions, etc.) rance Premiums	£376,651 aste and Stores 16,226 and Other Expenses 89,877 (including Stores Expenses, Rates, ion Fund Contributions, etc.) rance Premiums	£376,651 4 aste and Stores 16,226 0 and Other Expenses 89,877 0 (including Stores Expenses, Rates, ion Fund Contributions, etc.)	£376,651 4 0 aste and Stores 16,226 0 5 and Other Expenses 89,877 0 7 (including Stores Expenses, Rates, ion Fund Contributions, etc.)	£376,651 4 0 aste and Stores 16,226 0 5 and Other Expenses 89,877 0 7 ————————————————————————————————	£376,651 4 0 aste and Stores 16,226 0 5 and Other Expenses 89,877 0 7 ————————————————————————————————

Cape Town,
21st April, 1944.

and City of Cape Town.

31st December, 1943, and Allocation thereof.

Cr.

By Allocation of Pooled Costs in term	s of	${\bf A}{\bf g}{\bf r}{\bf e}{\bf e}{\bf m}{\bf e}{\bf n}{\bf t}{\color{red}{\color{blue}}}$				
Electricity Supply Commission	•••	•••		£246,166 0 9		
City of Cape Town		•••	•••	496,006 19 9		
					£742,173 0	6
,, Sundry Revenue		•••	•••		1,286 13	9

£743,459 14 ;

H. A. EASTMAN,
Manager of the Pooled Stations.

DURBAN

Dr.

Revenue Account for the Year

						The second secon	A CONTRACTOR OF THE PARTY OF TH		
То	Operation—	Gen	eration of	Electi	icity.				
10	Engl					£168,704 2 5			
	Water, Oil, Waste and	Stores	•••	•••	•••	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	Salaries and Wages		•••	•••	•••	23,415 12 3			
	Other Expenses	•••	•••	•••	•••	$2.247 \ 13 \ 2$			
	Maintenance—	•••	•••	•••	•••	#,##(10 Z			
,,	Stores					0.544 0 0			
	Salaries and Wages	• • •	•••	•••	•••	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	Other Expenses	•••	•••	•••	• • •	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	inpenses	•••	•••	•••	•••	1.110 0 10	£230,800	5	11
,,	Operation and Maintenance	e: Alice	Street Po	wer Sta	ation		8,495		$\frac{11}{7}$
,,	Electricity Purchased	•••	•••		•••		8.896	19	8
,,	Electricity Interchanged		•••	•••			359	1	ŏ
					•••		330	.1.	O
	0 1 25 1	Distri	bution of	Electri	city.				
,,	Operation and Maintenance	e—							
	Stores Warner	•••	•••	•••	•••	1,051 18 8			
	Salaries and Wages Other Expenses	•••	•••	•••	•••	4,340 18 0			
	other Expenses	•••	•••	•••	•••	1.310 - 6 - 7			
			General E	xpense	s.		6,703	3	3
	T . 7 4 7	m 1 ·							
"	Local Administration and	Technica	l Manage	ment		6,348 7 8			
"	General Expenses (including Stores Expenses Parts	ng Main	tenance c	or Quar	ters,				
	Stores Expenses, Rate Contributions, etc.)				fund	10040 10 10			
	War Damage Insurance I	o Oromium	•••	•••	•••	10,942 13 10			
"	Investigations and Develop	nmont F	3	• • •	• • •	5,723 16 3			
,,	Head Office Administrati	on and	General	Expo		32 8 5			
"	including Publicity	on and	···	-		6,231 15 8			
• •	Engineering Expenses	•••	•••	•••	•••	$3.457 \ 18 \ 1$			
	•				•••	95391 TO T	32,736	10	11
,,	Deferred Payment Scheme	e, includ	ing Propa	ıganda	and		02,100	10	TT
	Showroom Expenses	· • • •	•••	•••	•••		28	5	7
	_						288,020	5	11
	Interest	•••	•••	• • •			69,883		4
,,	Redemption Fund	• • •	•••				45,653	15	5
,,	Sinking Fund			•••	•••		120	0	0
,,	Amount set aside to Reser	rve Fund	d				20,000	0	0
							£423,678	0	8
To	Balance brought down	•••	•••				£1.068	10	6
	Balance as per Balance Sh	cet	•••				12.060		5
//					•••		12.000		
							£13,129	11	11

J. VAN NIEKERK, Chief Accountant.

Johannesburg,

21st April, 1944.

10		•	-	
(U)	omm	15	51	on

UNDERTAKING.

ended 31st December, 1943.

Cr.

The second secon						
By Sales of Electricity—						
Bulk Supplies	•••			£370.044 0 4		
Industrial Supplies				$27,665 \ 14 \ 0$		
Domestic and Lighting Supplies				21,186 2 3		
Electricity Interchanged	•••	•••		742 11 10	£419,638 S	5
Ether Revenue		•••			2,970 12	9
balance carried down	•••	•••	• • •		1,068 19	6

	£423,678 0 8
has believe at 31st December, 1942, brought forward	£13.129 11 11
	£13,129 11 11
Maria de la companya	

Referred to in our Report of 26th May, 1944.

ALEX. AIKEN & CARTER,)
B. HALSEY,

Auditors.

SABIE

Dr.		NA ANDRON	****	Revenue	Acc	ou	nt	for	the	Ye	ar
To Operation—	Gene	ration of	Elec	tricity.							
Water, Oil, Waste and Salaries and Wages	Stores			•	£69 1.719		10 7				
,, Maintenance—				•••	_,		-				
Stores					269	9	1				
Salaries and Wages		•••	•••	•••	619	12	8			,	
Other Expenses	•••	•••		•••	141	9	9				
	Distri	ibution o	f Elec	etricity.	Marine and the second second second				£2,819	L4	11
,, Operation and Maintenance	ee—										
Stores	•••	•••	•••	•••	82	1	11				
Salaries and Wages	•••		•••	•••	537	4	7				
Other Expenses	• • •	•••	•••	•••	287	16	4		00-	5	3.7
	G	General E	xpens	ses.	-				907	7	10
,, Local Administration and	Technica	l Manag	emen	t	313	12	7				
,, General Expenses (including	ng Maint	enance o	f Ou	arters,							
Insurance, Pension Fun ,, Head Office Administrati	d Contri	butions,	etc.)	•••	274	0	9				
including Publicity	on and	General	Exp		849	15	9				
,, Engineering Expenses	•••	•••	•••	•••	$\frac{471}{471}$		8				
			•••	•••					1.908	19	9
								-	5,635	17	6
,, Interest	•••	•••							4.262		1
", Redemption Fund …	•••	•••	•••	•••					3.525		9
,, Amount set aside to Rese	rve Fund	• • • •		•••					6(m)	0	0
,, Balance carried down	•••		•••	•••					19	9	S
								£	14.043	3	0
To Balance as per Balance S	heet	•••						_	£195	12	2
									£195	12	2

J. VAN NIEKERK, Chief Accountants

Johannesburg, 21st April, 1944.

Commission.

UNDERTAKING.

ended 31st December, 1943.

Cr.

Account No. 7

Fix Sales of Electricity— Mining Supplies £14.043 8 0

£14,043 8 0 because at 31st December, 1942, brought forward £176 2 6 Balance brought down 19 9 8 £195 12 2

Referred to in our Report of 26th May, 1944.

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

KLIP GENERATING

Dr.

Revenue Account for the Year

		Gene	eration of	Elect	ricity.						
To	Operation—					0.405.000	0	_			
	Fuel	•••	•••	•••	•••	£437,966					
	Water, Oil, Waste and	Stores	•••	•••	•••	6,672		$\frac{2}{\cdot}$			
	Salaries and Wages	•••	•••	•••	•••	55,634		4			
	Other Expenses	•••	•••	•••	•••	2,072	12	2			
٠,	Maintenance—										
• • •	Stores	• • •	•••	•••		15,034		7			
	Salaries and Wages		•••			32,360		0			
	Other Expenses	•••	•••	•••	•••	11.158	9	0	6500 000	69	0
									£560,900	3	8
			General	Expens	ses.						
	Local Administration and I					12,042	15	10			
,,	General Expenses (including	« Moint	tananca o	f Oua							
,,	Stores Expenses, Rates	. Insura	ance. Per	nsion	Fund						
	Contributions, etc.)		• • •		• • •	20,915	1	0			
		g and (General H	Expens	es of						
,,	Administration, Engineering Operating Party (The V Power Company, Limited	ictoria	Falls and	l Tran	ısvaal	17 905		Ο			
	Power Company, Limited	d) _		•••	•••	17,325	U	U			
,,	Head Office Administration	n and	General	Expe	enses,	6,283	15	6			
	including Publicity	•••	•••	•••	•••	3,486		1			
,,	Engineering Expenses	•••	•••	•••	•••	5,460	1.)	ı.	60,053	7	5
									$620,\!953$	11	1
	Interest				•••				$225,\!564$		2
,,	Redemption Fund	•••			•••				154,006	3	9
,,	Provision for Repayment of		s Outstan	ding (Rand						_
,,	Water Board)	•••		•••	•••				6,912		7
,,	Amount set aside to Reser	ve Fund	l		•••				59,985	5	7
								-	$\pm 1,067,422$	7	2
								=			_

J. VAN NIEKERK, Chief Accountant.

Johannesburg,

21st April, 1944.

Account No. 8.

Commission.

STATION UNDERTAKING.

ended 31st December, 1943.

Cr.

By Sales of Electricity—

Bulk Supplies £1,062,208 0 6

... Other Revenue 5,214 6 8

£1,067,422 7 2

Referred to in our Report of 26th May, 1944.

ALEX. AIKEN & CARTER, Auditors.

RAND EXTENSION

Dr.

Revenue Account for the Year

								£60,859	17	11
,,	Amount set aside to Reserve	Fund	•••	•••	•••	•••	•••	8,458	3	. 6
,,	Redemption Fund	•••	•••	•••		• • •	•••	21,715	10	7
,,	Interest	•••		•••	•••			29,448	10	8
;,	Engineering Expenses	•••	•••	•••	•••	383	4 1	£1,237	13	2
,,	Head Office Administration including Publicity	and 	General	Expen	ses,	690	12 2			
То	General Expenses (Insurance	e)	•••	•••	•••	£163	16 11			

J. VAN NIEKERK, Chief Accountant.

Johannesburg,

21st April, 1944.

Referred to in our Report of 26th May, 1944.

ALEX. AIKEN & CARTER, B. HALSEY,

Auditors.

ANNEXURE "B."

Glectricity Supply Commission.

STATEMENT No. 1.

Summary of principal plant and equipment installed at the Commission's several Undertakings as at 31st December, 1943:

POWER STATIONS.

Colenso (Natal Cen	tral Unde	ertaking)	• • •	• • •	Steam
Congella (Durban U	Indertakii	1g)	• • •		Steam
Klip				•••	Steam
Margate (Durban U	ndertakin	g)			Oil
Sabie				•••	Hydro
Salt River (Cape T	own Unde	ertaking)	• • •	•••	Steam
Volksrust (Natal Ce	ntral Und	ertaking)		•••	Oil
Witbank			•••		Steam

BOILER PLANT.

Power Station.		Number 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 in.
Colenso	•••	$\left\{egin{array}{c} 8 \ 4 \end{array} ight.$	$\{60,000 \\ 90,000 \}$	840,000	290
Congella		$\left\{ egin{array}{c} 6 \\ 4 \end{array} ight.$	60,000 $100,000$	760,000	$\left\{\begin{array}{c} 275\\300\end{array}\right.$
Klip	•••	24	180,000	4,320,000	390
Salt River		$\left\{ \begin{array}{c} 2 \\ 6 \end{array} \right.$	$\left. egin{array}{c} 60,000 \\ 100,000 \end{array} \right\}$	720,000	$\left\{\begin{array}{c} 270 \\ 425 \end{array}\right.$
Witbank		20	70,000	1,400,000	225
Totals	• • •	74		8,040,000	

GENERATING PLANT.

				Rating of enerator.		ing of or House.		Rating of House
Power Station.	(No. of Generators	Kilo- watts.	Kilovolt Amperes.	Kilo- watts.	Kilovolt Amperes.	Voltage of Generaltion.	Sets. Kilowatts.
Caledon		1	140	Management of the Contract of	140	Million de COPM	500/250 D.C.	
Colenso	•••	$\left\{\begin{array}{c}5\\1\end{array}\right.$	$12,000 \\ 25,000$	$\begin{array}{c} 13,350 \\ 27,800 \end{array} \right\}$	85,000	94,550	6,600 A.C.	
Congella		$ \begin{cases} \frac{2}{3} \\ \frac{1}{1} \end{cases} $	6,000 12,000 20,000 30,000	$ \begin{array}{c} 7,500 \\ 15,000 \\ 25,000 \\ 37,500 \end{array} \right] $	98,000	122,500	$ \begin{cases} 6,600 & A.C. \\ 6,600 & A.C. \\ 6,600 & A.C. \\ 33,000 & A.C. \end{cases} $	
Klip		12	33,000	41,250	396,000	495,000	10,500 A.C.	28,000
Margate	•••	$ \begin{cases} & 1 \\ & 1 \end{cases} $	93 73	$\left. egin{array}{c} 110 \\ 86 \end{array} ight\}$	166	196	380/220 A.C.	
Sabie		3	450	600	$1,\!350$	1,800	3,300 A.C.	
Salt River		$ \begin{cases} 3 \\ 3 \end{cases} $	10,000 20,000	$11,000 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	90,000	108,000	$\begin{cases} 12,000 & A.C. \\ 33,000 & A.C. \end{cases}$	300
Volksrust		2	250	300	500	600	3,300 A.C.	
Witbank		5	20,000	23,500	100,000	117,500	6,600 A.C.	8,000
Totals	•••	44			771,156	940,146		36,300

Total Station Capacity: 807,456 kilowatts (including House Sets).

	TRANSMISSION LINES AND CABLES.											
UNDERTAK	ING.			88,000 volts. Route Miles.	40,000 volts. Route Miles.	33,000 volts. Route Miles.	22,000, 21,000 20,000 volts, Route Miles.	12,600, 11,000 volts. Route Miles.	6.600, 3.300, 2,200, 2.000 volts. Route Miles.	460/230 and 380/220 volts. Route Miles.	Total Route Miles.	
Cape Town .						302		140	139	184	765	
Durban (South	ı Coa	ist)		Production and Production of the Production of t		58		28	28	48	162	
Natal Central .				547		33	67	125	184	79	1,035	
Rand Extension	n			268	81		9		31	16	405	
Sabie	••			-	-	*****	7	Military Add		1	8	
Withank .					22		116		31	31	200	
Totals .	••	• • •	•••	815	103	393	199	293	413	359	2,575	

STATIC TRANSFORMERS AT POWER STATIONS AND SUB-STATIONS. (Step-up and Step-down, including Spares.)

Undertaki	ng				Capacity. Kilovolt-Amperes.
Cape Tow	n	• • •		 	154,151
Durban				 	70,640
Klip	• • •		• • •	 	549,133
Natal Cer	itral		•••	 	219,333
Rand Ext	ension		• • •	 	261,170
Sabie	•••		• • •	 	3,640
Witbank	(including	Reef,	71.890)	 	262,086
Total	•••			 	1,520,153
					make the second seconds in the second

CONVERTING SUB-STATIONS.

Type.		Number of Sub-stations.	Number of Units.	Total Rating.
Motor Generators		 14	24	48,000 kW.
Rotary Converter	s	 8	15	28,150 kW.
Rectifiers		 30	†44	*69,837 kW.
Totals		 52	83	

 $^{^{\}pm}$ Of these some are equipped for rectifying and inverting—the total inverted rating is 10.000 kW.

^{*} Forward rating.

Electricity Supply Commission.

STATEMENT No. 2.

Summary of principal plant and equipment in course of installation or on order at 31st December, 1943:

BOILER PLANT.

Capacity in lbs. of steam per hour (Normal rating).

			CAMINIAL TACINE	, / •
Power Station.	Number of Boilers.	Each.	Total.	Pressure. lbs, sq. inch.
Congella	 3	200,000	600,000	625
Vaal	 6	190.000	1,140,000	390
			1,740,000	
			The second secon	

GENERATING PLANT.

Power Station			Numl of Se	Capacity. Each.			Total Kilowatts.
Congell	:1		1	 40.000 kW.			40,000
Port Sl	hepstone	· · · ·	2	 700 kW.			1,400
Vaal			$\left\{\begin{array}{c}5\\1\end{array}\right.$	 88,000 kW. 7.500 kW.	(House Set)	ì	172,500
							213,900

TRANSFORMERS.

(Step-up and Step-down.)

Kilowatt-Amperes

Total capacity in course of installation or on order 264.594

CONVERTING SUB-STATIONS.

Туре.	Number of Sub-stations.	Number of Sets.	Total Rating.
Mercury Arc Rectifiers	ŏ	-	14,168 kW. Forward

Electricity Supply Commission.

Statement Showing the Price or Rent of Land or Rights or Interests in or over Land or other Property acquired or hired by the Commission during the Year 1943.

(See previous Annual Reports for Rights or Interests in or over Land acquired prior to 1943.)

Farm or Lot.	District.	Title.	Purchase Price or Rental.	Acquired From.	Purpose for which Required.
	NAT	TAL CENTRA	L UNDER	TAKING.	
Witbank No. 1335	Klip River	Servitude of Right-of-way in Perpetuity	£6 10 0	K. S. T. Lezar	Power Conductors
Samsons Klip No. 3312	do.	do.	£5 0 0	W. U. Nel	do.
Burnside	do.	do.	£10 10 0	K. H. W. Schroeder	do.
Roseneu No. 3212	do.	do.	£13 10 0	H. F. W. Schroeder	do.
Vaalkop and Dadel- fontein No. 885	Maritzburg	do.	£2 5 0	F. A. Scorgie	do.
Uitzoek No. 1104	do.	do.	£3 0 0	N. Bartman	do.
Barry Estate A No. 286	Harrismith	do.	£12 10 0	S. M. Mousley	do.
do.	do.	do.	£12 0 0	E. A. Orpen	' do.
Krom River	C aledon	APE TOWN Servitude of Right-of-way	UNDERTAK £11 17 4	KING. E. B. E. and H. A. Molteno	Power Conductors
To the total	,	in Perpetuity	610 14 1	C. W. B. Molteno	7
Palmiet River Springfield and Bloemendal	do. Cape	do. do.	£13 14 1 £19 16 0	J. D. van der Westhuizen	do. do.
	RAN	ID EXTENSION	ON UNDERT	TAKING.	
Orkney No. 115	Klerksdorp	Purchase of 283·2 sq. rds.	£225 0 0	Western Reefs Exploration and Development Co., Ltd.	Residence
		WITBANK U	JNDERTAKI	ING.	
Zeekoewater No. 14	Witbank	Servitude of Right-of-way in Perpetuity	_	S. J. Nel	Sub-station Site
Luipaardsylei No. 8	Krugersdorp	Purchase of 69.4 sq. rds.	£100 0 0	Luipaardsvlei Estate and Gold Mining Co., Ltd.	do.

STATEMENT No. 4.

Units sold to all consumers during the past nineteen years.

Year.	Cape Town Under- taking.	Durban Under- taking.	Klip Under- taking.	Natal Cent. Under- taking.	Sabie Under- taking.	Witbank Under- taking.	Total.
1925	No. 11 May 1886			wys serving.	75,943	an and an and	75,943
1926	 280,242	No. 11 and		719,666	$651,\!458$	160,031,213	161,682,579
1927	 5.811.836	y to regulate	Mark Control	104,206,235	1.938,940	439,061,722	551,018,733
1925	 31,038,697	15,563,460		114.213,037	2,829,888	464,267,213	627,912,295
1929 .	 47,945.690	78,873,576		123,911,774	3,176,173	543,091,138	796,998,351
1930 .	 49,772,016	99,228,000	pr 100 4 5000	117.075.481	4,585,060	618,951,364	889,611,924
1931 .	 $52,\!109.958$	103,899,765		$101,\!121,\!880$	6,585,553	603,359,113	867,086,269
1932	 64,268,873	109,808,223	annual of takes	100,292,933	6,080,010	$610,\!285,\!123$	890,735,162
1933 .	 100,685,629	118,538,312	Account Mark Comp.	$109,\!186,\!538$	6,349,651	639,368,114	974,128,244
1934 .	 73,583,974	131, 104, 182	Non-York and	124,898,129	7,329,679	648,245,530	985,161,494
1935 .	 80,020,511	149,874,024		154,278,600	7,181.282	727,888,529	1,119,242,946
1936 .	 85,840,383	170,493,987	556.997.155	171.476,131	6,863,253	696, 376, 199	1,688,047,108
1937 .	 94.038,449	189,412.691	1,349,853,464	210,632.827	7.166,684	684,516,633	2,535,620,748
1938 .	 98,801,619	209,495,780	1.666.852,594	234,948,157	$7,\!240,\!167$	768,114,272	2,985,452,589
1939 .	 106,451.848	233.677,491	2.193.206,661	266,238,056	$6,\!380,\!657$	767.741.727	3,573,696,440
1940 .	 119,770,941	242,741,129	2.566,536,197	281,121,807	6,669,552	853,317,743	4,070,157,369
1941 .	 136.240,415	270,316,419	2.675.943.959	302,395,900	6,565,110	862,562,248	4,254,024,051
1942 .	 151,769,902	273,748,608	2.707.829.911	307,724,141	6,335,396	873,440,460	4,320,848,418
1943 .	 145,739.820	293,366,350	2.669.086.704	312,387,660	5,930,089	849,119,231	4,275,629,854

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

STATEMENT No. 5.

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

UNITS SOLD, 1941.

Undertaking.		Traction.	Bulk.	Industrial and Mining.	Domestic and Lighting.	Total.
Cape Town		58,847,238	15,619,387	49,136.884	12,636,906	136,240,415
Durban		- more part top.	252,717,869	15,366,752	2,231,798	270,316,419
Klip		WAR TO THE STATE OF	2,675,943,959	No. of Contract Contr	Windowski	2,675,943,959
Natal Centra	l	243,979,449	42,621,492	12,913,088	2.881,871	302,395,900
Sabie		Page		6,565,110	1 And responsibilities	6,565,110
Withank		114,905,726	595,781,178	150, 165, 919	1.709,430	862,562,248
Totals		417,732,413	3,582,683,880	284,147,758	19,460,005	4,254,024,051

STATEMENT No. 5 (Continued).

to repeation of the units hold during 1942 as between the various classes of consumers

UNITS SOLD, 1912.

the second states	Traction.	Bulk.	Industrial and Mining.	Domestic and Lighting.	Total.
Torres	66,547,170	17,001,025	53,352.046	11,208,761	151,769,902
		255,550,652	15,8::::722	2.364.234	273.748,608
	No. or content	2,707,829,911	8 1 (Manager	a to consider	2,707,829,911
to see the set man	216,557.649	45,261,875	12.772.511	3,132,106	307,724,141
	And address		6,335,396	N - CV-C-Metals	6,335,396
	110.728.918	618,413.017	142.517.961	1.780,561	873,140,460
	123,833,737	3,641.717,380	230,811,639	21.485,662	4.320,848,418

Instellation of the units sold during 1943 as between the various classes of consumers.

UNITS SOLD, 1913.

macking.	Traction.	Bulk.	Industrial and Mining.	Domestic and Lighting.	Total.
· Tensila	 59,425,180	20.640.901	50, 139, 772	15,533,967	145,739,820
		274.568.296	16,144,592	2,653,462	293,366,350
	 	2,669,086,704		The Controlled	2,669,086,704
. Control	247,402,323	47,946,707	13.764.417	3.184.183	312,387,660
	We have dead	A constraint	5,930,089	a contract off	5,930,089
	111,193,046	595,762,770	140,321,359	1,832,056	849,119,231
1.00	118,110,519	3,608,005,378	226,310,259	23,203,668	4,275,629,854

STATEMENT No. 6.

POWER STATION STATISTICS, 1941.

Power Sta	tion.	Units Generated.		Maximum Half-hourly Deman Kilowatts (Sent Out).	d.	Load Factor on Units Sent Out. Per cent.
Caledon		 388,463		Acres 1		
Colenso		 339,426,340		54,140		67.8
Congella		 290, 192, 200		69,450		-1:3-9)
De Doorns		 553,689		Marco Nation Addition		an Assault
Klip		 2.840.347,024		375,210 (Hot	11.)	81.4
Margate	* * *	 36,543	• • •	Common and Control State		MAN AND COLORS
Sabie		 7,000,800		1,150		68.6
Salt River		93,799,067		50,800	- • •	19.3
Volksrust		 6,462		■n code ** SEE #*		
Withank		 802,540,966		103,560 (Hot	н)	82.6
		4.874.291,554				

POWER STATION STATISTICS, 1942.

Power Station.		Units Generated.		Maximum Half-hourly Deman Kilowatts	Load Factor on Units Sent Out.		
					(Sent Out).		Per cent.
Caledon		 	379,609		contacts and		WARRY TO SEC.
Colenso		 	346,163,200		56,580		$66 \cdot 3$
Congella	• • •	 	292,825,850		72,410		42.5
De Doorn	S	 	748,937		MARKS TO THE		Sanger - comm
Klip		 	2,879,252,030		376,200 (Hou	nr)	82.2
Margate		 	24.343		N a n r meet		gament and his still
Rawsonvil		 	48,900		Name and the		■ Product Proper
Sabie		 	6.781.800		1,160		(55.9)
Salt River		 	129,618,500	,	62,600		21.9
Volksrust		 	6.081				- Company of the Comp
Witbank		 	818,800,001		101,105 (Ho)	ur)	83.8
			1.474.619.251				

STATEMENT No. 6.—(Continued).

POWER STATION STATISTICS, 1913.

Power Station.			Units Generated.		Maximum Half-hourly Dema Kilowatts (Sent-Out).	Load Factor on Units Sent Out. Per cent.		
Calculott (10 ()	ctober)		294.540		* TO COMPANY	* * *	AC 000 TA
1				352.539,110		62,180		(51-()
r congred la				311,829,500		77.218		42.6
[] ;				2,838,895,908		367,290 (Ho	ur)	83.0
Margate				44,537				# ##V
Sabie				6.806.000		1.225		57.9
Salt River				126,955,570		(53,(500)		21:3
Volksrust				16,156				
Mundell				783,769,788		104.791 (He	ш.)	80.0
				4.420,651,109				

STATEMENT No. 7.

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

		('(COAL CONSUMED.			U.`s.	Thermat
Page Station,		Tons. (2.000) (lbs.).	Per Unit Generated Lbs.	Per Unit Sent Out. Lbs.	Average per 4b, of Coal.	Average per Unit. Sent Out.	Efficiency on Units Sent Out.
e e e e e e e e e e e e e e e e e e e		245,088	1 - 4 - 4	1.52	12,390	18,900	18-1%
Same of the		200,708	1-38	1.50	12,200	18,300	18.60
		2.216,013	1.56	1.66	9,450	15,650	21.8%
* Hiver		67.489	1.41	1.57	12,900	20,300	16.8%
And the second second		668,538	1.67	1 - 7()	11.000	19,640	17.10
		3,397,836					

STATEMENT No. 7—(Continued).

Particulars of coal used at the Commission's Steam raising Power Stations during 1942.

	('(COAL CONSUMED.		В.Т.	U.'s.	Thermal	
Power Station.	Tons. (2.000 (1bs.)).	Per Unit Generated Lbs.	Per Unit Sent Out, Lbs.	Average per 1b, of Coal,	Average per Unit. Sent Out.	Efficiency on Units Sent Out.	
Colenso	 252.317	1-16	1.5.4	12,340	19,000	18.0%	
Congella	 205,520	1 1()	1.52	12.180	18,550	$18.4rac{\alpha}{20}$	
Klip	 2,330,884	1.62	1.72	9,240	15,910	21.5%	
Salt River	 92,107	1.42	1.53	12.600	19,300	17.7%	
Wifbank	 706,091	1.72	1.85	10.870	20,090	$17\cdot00\%$	
	3,586,919						

Particulars of coal used at the Commission's Steam-raising Power Stations during 1943.

	('(AL CONSUM	ED.	В.Т.	Ŭ∵s,	Thermal
Power Station.	Tons, (2.000 (lbs.),	Per Unit Generated Lbs.	Per Unit Sent Out, Lbs.	Average per lb. of Coal.	Average per Unit. Sent Out.	Efficiency on Units Sent Out.
Colenso	 252,858	1.4:3	1.51	12.220	18,500	$18.4\frac{67}{20}$
Congella	 228,443	1.47	1-58	12,140	19,220	17.8%
Klip	 2.333,255	1.61	1.75	9,130	15,960	$21 \cdot 1_{\frac{107}{70}}$
Salt River	 90,555	1.43	1.54	12.670	19,500	$17.5\frac{\alpha}{20}$
Witbank	 679,762	1-7:1	1-85	10,710	19,880	17.2%
	3,584.878					

Average Cost per Ton (2,000 lbs.).

1930	1931 1932	1933 1934	1925 1936	1937 1938	1939	1940	1941	1942	1943
Colenso	8 3 9 10	10.7 10.9	10 9 11	10 10 10 9	10, 11	10 11	11,	10 11	10/10
Congella 13 2	112 151	15 6 15 1	15 15 5	15 2 15	15 3	15, 2	15/3	15/2	11/9
Klip			3 2	3 3	3 1	3 6	3 6	3.7	3,5
Salt River 23/5	23 21 11	25 25 6	25 + 25 +	21 > 25 1	25 6	25 7	25 7	25 3	25,
Withank 2.2		2 2 3	$\frac{1}{2}$ 3 $\frac{1}{2}$ $\frac{1}{2}$	2 2 2	2	• • • •	.)	2	2/1

ANNEXURE "C."

STATISTICS RELATING TO THE PRODUCTION AND SUPPLY OF ELECTRICITY IN THE UNION OF SOUTH AFRICA.

Extracted from the 1941/1942 Industrial Census, and published by courtesy of the Department of Census and Statistics (Pretoria).

UNITS GENERATED.

Province.		Local Authorities.	Other Producers.
Cape	 	597, 542, 315	197,230,191
Natal	 	20,560,642	785, 423, 734
O.F.S	 	44,127,502	18,319,574
Transvaal	 	628,696,533	5,506,602,033
Total	 	1,290,926,992	6,507,575,582

7.798,502,524

CONSUMERS AND SALES.

PROVINCE.

	Cape.	Natal.	0.F.S.	Transvaal.	Totals.	
Total Number of Consumers	143.093	57,918	15,511	152.827	369,349	
Total Units Consumed	676,255,559	691.269,879	75.504.946°	5,321,669,583	6.767.699.967	
Number of Domestic Consumers	(24.520)	43,905	13.745	129.395	311.565	
Units Sold to Domestic Consumers	320.811.389	131.521.312	13,773.233	328,359,027	797,467.991	
Average Units Sold per Domestic Consumer	2.576	3,064	1.002	2,538	2,560	

^{*} Some of these units were generated in Natal and Transvaal.

STATISTICS RELATING TO THE PRODUCTION AND SUPPLY OF ELECTRICITY IN THE UNION OF SOUTH AFRICA—(Continued).

INSTALLED CAPACITY OF PLANTS.

Capacity.	Number of Power Stations.		Total Installed Capacity—Kilowatts,
50,000 kilowatts and over	13		1,428,100
20,000 kilowatts and over and below 50,000 kilowat	its -1		143,000
10,000 kilowatts and over and below 20,000 kilowat	ts 6		84,502
5,000 kilowatts and over and below 10,000 kilowat	ts 4		33,075
1,000 kilowatts and over and below 5,000 kilowat	rts 38		78,343
Below 1,000 kilowatts	248		56,730
	313	• • •	1.828,750
	Name of the last o		and the second of the Market of the second o

SIZE AND TYPE OF GENERATING UNITS.

Size of Sets.	Steam Turbines.	Steam Recip- rocating Engines.	Diesel Petrol, Paraffin, Light Oil Engines.	Gas Engines,	Water Wheels and Turbines.	Total Number of Sets.
(1) A.C. Plants:						
Below 250 Kilowatts	4	79	324	7	28	442
250 kilowatts and over, but b 1,000 kilowatts		64	18	7	11	133
1,000 kilowatts and over, but b 5,000 kilowatts	oelow 73	Product in this	Nanconin	-		73
5,000 kilowatts and over	91	WHEN SING.		With this case	And the second	91
(2) D.C. Plants:						
Below 250 kilowatts		38	164	9		211
250 kilowatts and over, but b 1,000 kilowatts	-1	9	1	3		14
1.000 kilowatts and over, but b 5.000 kilowatts	7	processing.		war consisten		1

FUEL CONSUMED.

			Quantity.	
Type of Fuel.			(Tons = 2.000 lbs.).	Cost.
Coal		• • •	 6,740,484	£2.492,101
Other Fue	1	• • •	 and and the	£ $274,549$

STATISTICS RELATING TO THE PRODUCTION AND SUPPLY OF ELECTRICITY IN THE UNION OF SOUTH AFRICA.—(Continued).

		SUMPT lues Unl				
Average Coal Consumption per Unit Generated.					Number of Undertakings,	
Under 2 lbs			• •	•••	17	
2 lbs. and over, but	under 3	Ibs.	• • •		21	
3 lbs. and over, but	under 4	- lbs.	• •		11	
4 lbs. and over, but	under 6	ilbs.			20	
6 lbs. and over, but	under 8	llbs.		• • •	11	
8 lbs. and over	• • •		• • •		20	
TRANSFORMERS.						
Total installed capacity				7.773,0	16 K.V.A.	
Total value of land, bui	• • •			€.	58,044,482	
Total number of persons industry (generation				city	15,890	

Total salaries and wages paid for the year £2,919,294