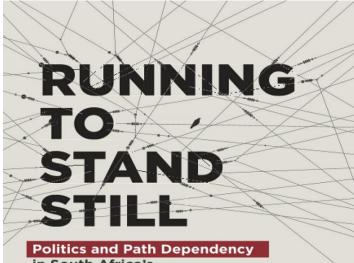
Running to Stand Still. Politics and Path Dependency in South Africa's Municipal Electricity Sector



in South Africa's Municipal Electricity Sector Presentation to the AMEU *Theo Covary, PhD theo@unlimitedenergy.co.za* 12 August 2021

THEO COVARY

Research Objective

Municipalities have no incentive to support energy efficiency as they rely heavily on electricity surpluses to cross-subsidise municipal functions

- 1. Is this model still relevant?
- 2. Why was it selected?
- 3. When and how did it come about?

Today's discussion will look at the policy of relief of rates and what events resulted in municipalities losing their right to own and operate their own electricity generation plants. This covers the period 1900 to 1970

Methodological Approach

New Institutionalism combines the interests of traditional scholars studying formal institutional rules and structures WITH behavioural scholars, who are concerned with the actions of individual political actors.

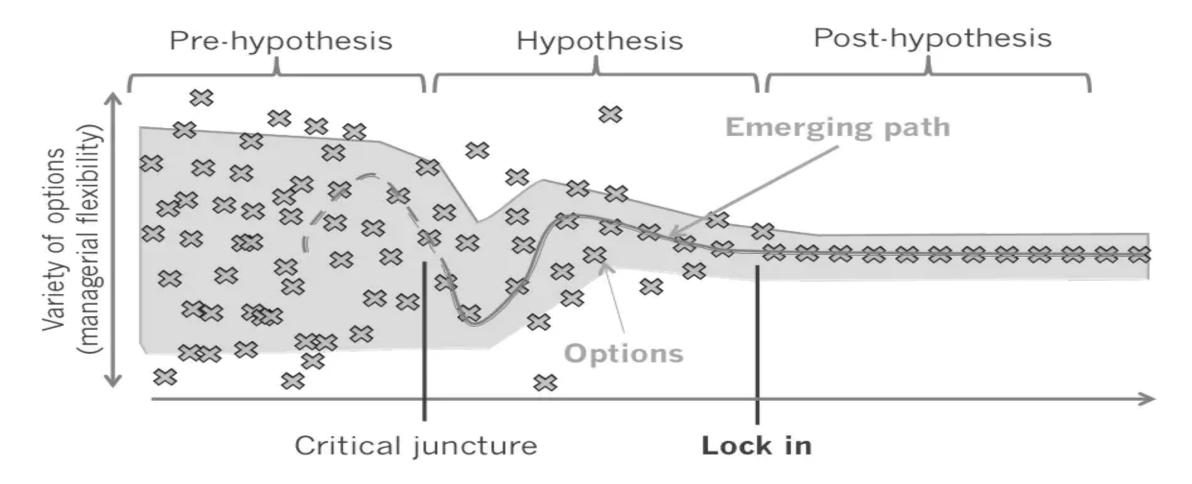
Three strands:

- 1. Rational choice (self-interest of actors calculus)
- 2. Sociological (behaviour "the way we do things" culture)
- 3. Historical (Path dependence: decisions presented to people are dependent on previous decisions i.e not based on current conditions)

Path dependence

The set of decisions one faces for any given circumstance is limited by the decisions one has made in the past, even though past circumstances may no longer be relevant.

Definition from Praeger, Dave. Our Love Of Sewers: A Lesson in Path Dependence



Research Sources

- Interviews
- Primary Documents
 - AMEU Committee Meeting Minutes (1950 2017)
 - AMEU Proceedings Journals (1915 2017)
 - City of Johannesburg Annual Report of the General Manager Electricity
 - City of Johannesburg Annual Report and Financial Statements (1971 – 1995)
 - City Power Financial Statements (2002 2017)
 - Merz McLellan Internal Library
 - Other (NT, White Papers, Annual Reports etc)
- Secondary academic research

TUESDAY, 6th December, 1938.

The Convention resumed at 9.30 a.m. in the Ball Room, Arthur's Seat Hotel, Sea Point, with the President in the chair.

DATE OF NEXT CONVENTION.

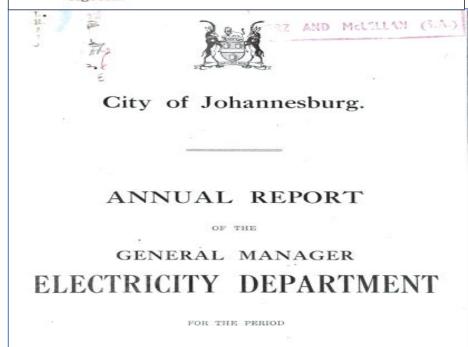
The President: This morning at a meeting of the Council of the Association, it was suggested that the next annual Convention shall be held at Umtata from the 17th to the 20th October, 1939.

After discussion it was, however, decided to refer the matter back to the Council for further consideration.

RELIEF OF RATES.

You will remember that a sub-committee was appointed at the last Convention to discuss the question of the Relief of Rates, and as one of the members of that Committee is not here (Councillor Coetzee, of Springs) the Council suggests that Councillor Parry, of Springs, should be appointed in his place, and that the name of Councillor Spilkin be added to the Committee. Your Council recommend that that be done, and I put it forward for your confirmation.

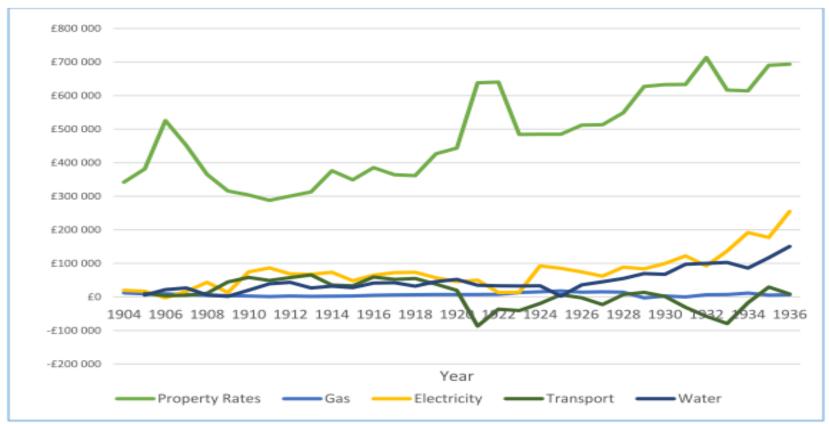
Agreed.



1st July, 1954, to 30th June, 1955.

Genesis

- 1907 Relief of rates commenced concerns raised immediately
- 1909 Power Commission & 1910 Power Act (muni's generate & distribute within jurisdiction + power undertakings board i.e Escom)
- Municipal elections



Source: (Maud 1938) Randall (1938)

Relief of Rates (1937 AMEU Conference)

- Electricity tariffs are not cost reflective. Additional charges must be reflected as a tax
- High tariffs ignore the needs of poor and large households (regressive tax)
- Inflated tariffs raise the likelihood of reduced sales and fuel switching
- The practise compromises prudent accounting practises (depreciation, redemption) – leading to deterioration of systems, as surpluses are prioritised for relief of rates
- Electricity provision must be efficient to stimulate the economy
- Surpluses vary. Overreliance leads to funding gaps if sales decrease

RELIEF OF RATES DISCUSSION ABANDONED IN 1948

Escom

- 1945 Escom buys VFTPC for £14.5 million
- Continuous build mindset is born targeting a national grid
- Post WWII boom, discovery of FS gold fields and cheap international debt

Electricity Supply Commissio The cheque issued for 7563 ^ £,14 500 000 to purchase the VFP in 1948, represented the biggest single transaction in 12 of 1922 of the Union of South Africa. Incorporated under the Electricite the history of South Africa at that time FUND ACCOUNT 1st JULY, //// 8. 23 Barc Dominion;Colonial and Overseas) CIRCUS PLACE, LONDON WALL, LONDON, E.C.2 Jan THE VICTORIA FALLS AND THAN SVAAL POWER CO. LTD Cr (rder the sum of FOURTEEN MILLION FIVE HUNDRED THOUSAND POUNDS If of ELECTRICITY SUPPLY COMMISSION. ,500,000--0--0 COUNTANT

Escom and Municipalities

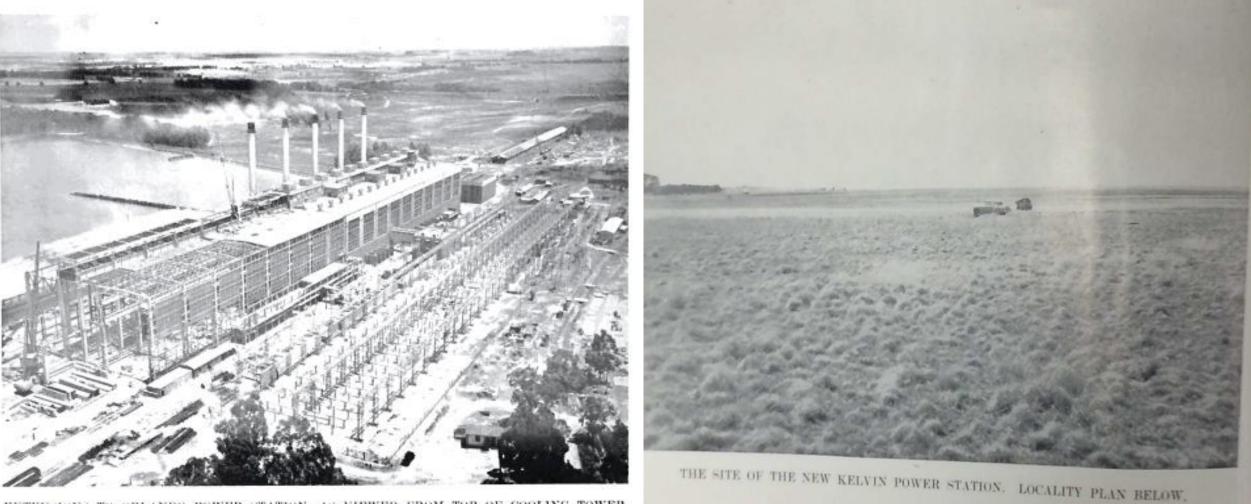
"The relationship between municipalities and Escom had been a love-hate one. Escom loved to have the municipalities' extra capacity on hand in times of crisis, but loathed the way the big municipalities were seen to be taking advantage of the situation.

The municipalities could not help but be suspicious of the motives of "Big Brother", which was rapidly looking to gain and then maintain its monopoly over the South Africa electricity industry."

Conradie & Messerschmidt (2000, p.138)

Johannesburg Electricity Undertaking (JEU)

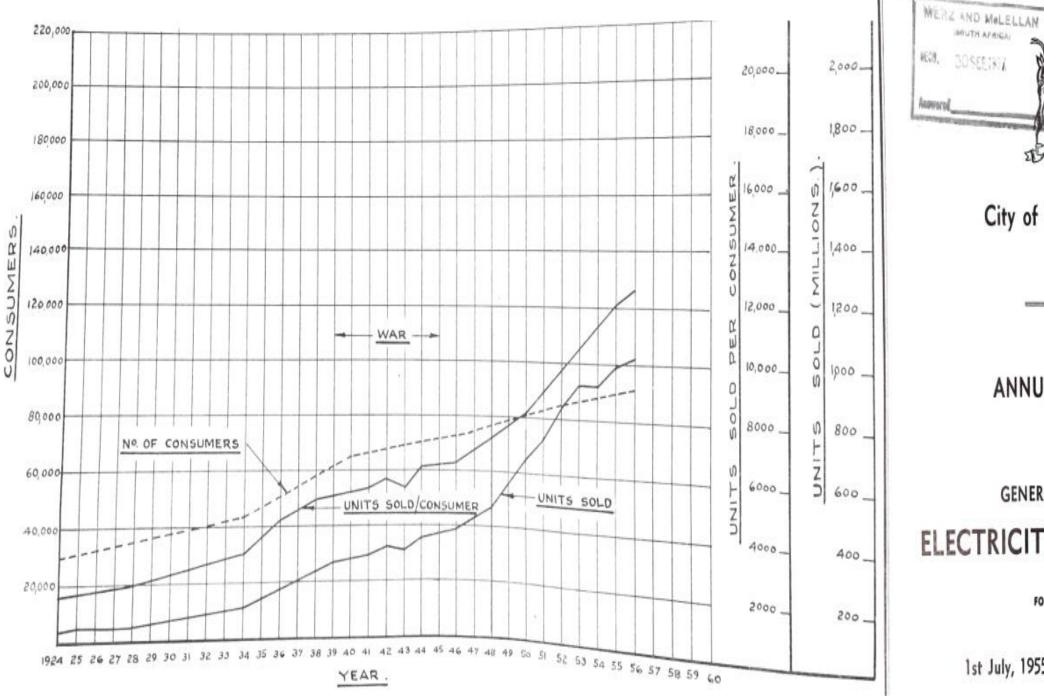
• By 1959 570 MW of generating capacity. Escom biggest single customer



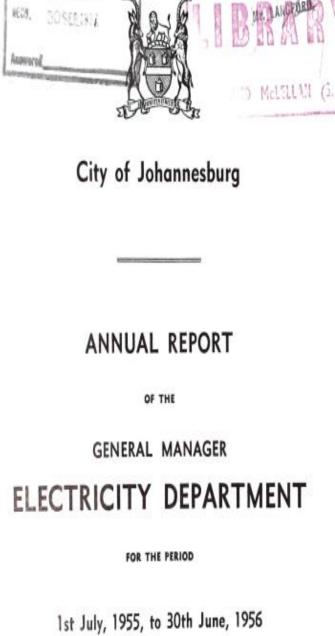
EXTENSIONS TO ORLANDO POWER STATION, AS VIEWED FROM TOP OF COOLING TOWER.



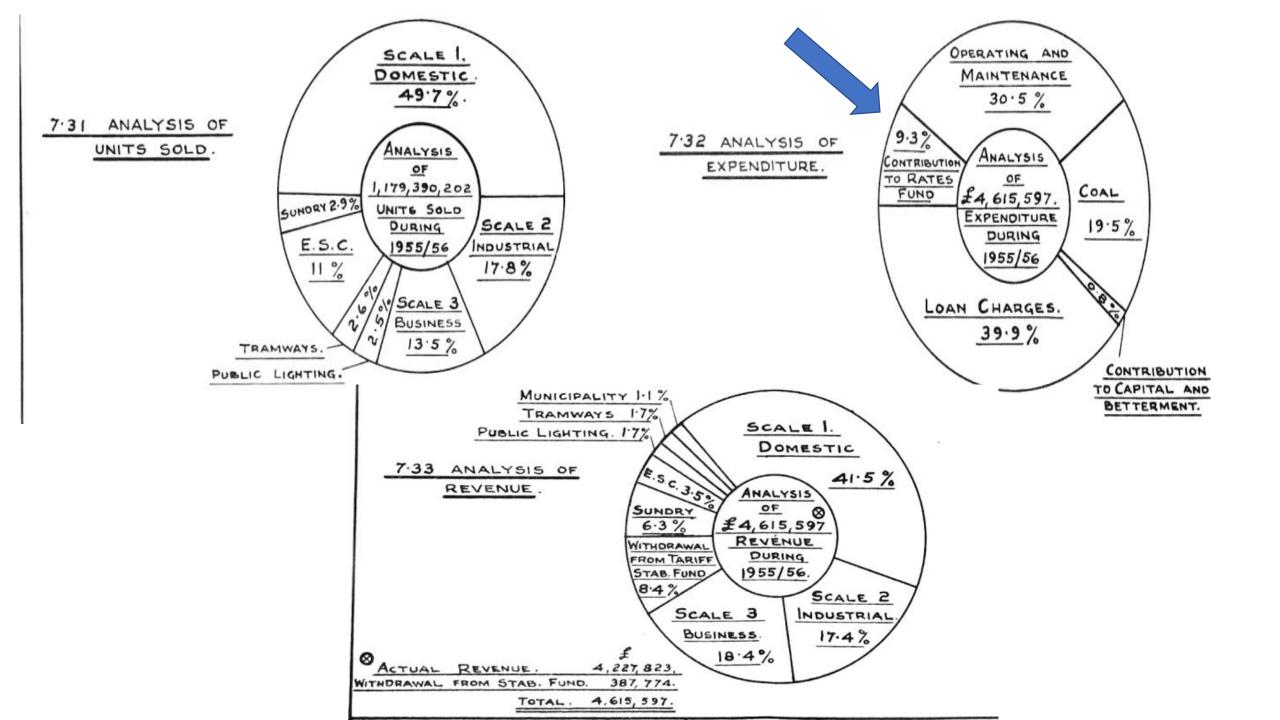
THE HON. MINISTER OF TRANSPORT (MR. P. O. SAUER), THE DEPUTY MAYOR (COUNCILLOR C. BECKETT) AND THE GENERAL MANAGER, ELECTRICITY DEPART-MENT, AT THE OPENING OF KELVIN POWER STATION AND ITS RAILWAY SIDING ON 15th JANUARY, 1954.



3



BOUTH AFRICA:



Early to mid-1960's plans to build Liefde-en-Vrede 1GW plant. 80% of water requirements from sewerage

Escom intervened and **Provincial Administrator** would not authorise project as gen tariff > Escom - (not < than Escom, but < than Escom rate to JEU). The administrator rejected this argument because the city was using large profits from electricity sales to keep the property tax rates down

MERZ AND MCLELLAN CARRIER HOUSE. WARWICK ROW. CONSULTING ENGINEERS WESTMINSTER. LAN E. FOWELL, M.J.C.E., M.I.Mess, E. ALCO INFOLD J. BEARD, MILE E. LIAM H. DISON, A.M.I.C.E., H.I.Mass, E. M.LE.E. 网络无数装饰 机、数量计数块、多数的现在分 LONDON, S.W.I W. CAMPRELL, M.I. Man, E., M.I. E.E. -88 D W. PERCHA. H. L. Marson, E., M. L.E. E. CARLIEL HOUSE, NEWCASTLE UPON TYME. HOHAS W. WILDOX, HILE E. APOLD B JOHNBOH HIER TELEGRAMS: AMBERGRAFT, LONDON, S.M.I. TELEPHONEL WICTOMA 3344 CONSULTANTS THE REAL PROPERTY. **的复数形式** HUR HOWELL, M.L.Mean, E., M.L.E.E. LES L BLACKBURN, MILLER BRAEME N. HALDANE, M.I.C.E., N REDERICK C. WINFIELD, MILEE **科教学教育教育科学会** B JOHN HACKING, MILER AWP Tanuary, 1966 The General Manager, Electricity Department,

Dear Sir,

P.O. Box 699, IOHANNESBURG.

City of Johannesburg,

REPORT ON PROPOSED NEW POWER STATION

We have pleasure in submitting herewith Part 2 of our Report on Post-1964 Generation Requirements. It deals with proposals for a new power station to follow Kelvin B, the completion of which was the subject of the Part 1 Report dated January, 1965.

The principal findings in the attached Report are as follows :-

- The new station should be capable of development to about 1000 MW.
- 2. The choice of site is between Kelvin and Liefde en Vrede. Present indications are that there would be an overall capital saving in favour of Liefde en Vrede and this might amount to approximately $R3\frac{1}{2}$ million.
- 3. The turbo-generator set size should be 125 MW and the steam conditions at the turbine stop valve should be 1200 lb/in^2 and 950 $^{\circ}F$.

- By late 1969 a national grid was close to completion
- AMEU Margate conference (1969) it was agreed with Escom that municipalities would give up their right to build new generation plants. In return, Escom would not challenge their exclusive rights to distribute electricity within their area of jurisdiction
- Mr Leishman from the JEU who fought for over a decade retired shortly thereafter and the rest is history.