



# THE GLOBAL REVOLUTION IN ENERGY

## AND WHAT IT MEANS FOR SOUTH AFRICA

*presented by Prof Anton Eberhard*

**18 MARCH 2019 | 17H30 FOR 18H00**  
**ENGINEERING I BLDG, 1-2 (BASEMENT), UNIVERSITY OF PRETORIA**

The rapid rate of innovation in energy means that the future shape and nature of this sector will soon be very different to the present. The relative prices of power generation sources have switched and solar and wind energy are now, in most countries, the cheapest grid-connected sources of electricity and as storage prices plummet, off-grid power solutions are more cost-competitive.

The electricity system is becoming decentralized as a multitude of smaller, incremental investments are made by utilities, industries and households, with the latter becoming producers as well as consumers of power. Networks and mini-grids are increasingly radial, meshed and fractal, and - as energy, transport and communications technologies converge, along with the internet of things, machine learning, demand-side management, and block-chain payment systems - energy services will be democratized and controlled to match individual and community needs more optimally.

The institutional design of Eskom, which originated in the past century, is no longer fit for purpose. Indeed, it may become increasingly irrelevant as new, innovative and competitive energy systems evolve. A new business model is needed if the utility is to survive.

**This lecture is open to the public and will be followed by light refreshments (courtesy of the South African Academy of Engineering - SAAE)**

[Click here](#) to RSVP by 13 March 2019 or for further queries contact Me Helen Duffey at [office@saae.co.za](mailto:office@saae.co.za)

\*The venue is unfortunately not wheel chair friendly.

Please see map below for directions (Engineering I BLDG, 1-2 (Basement))

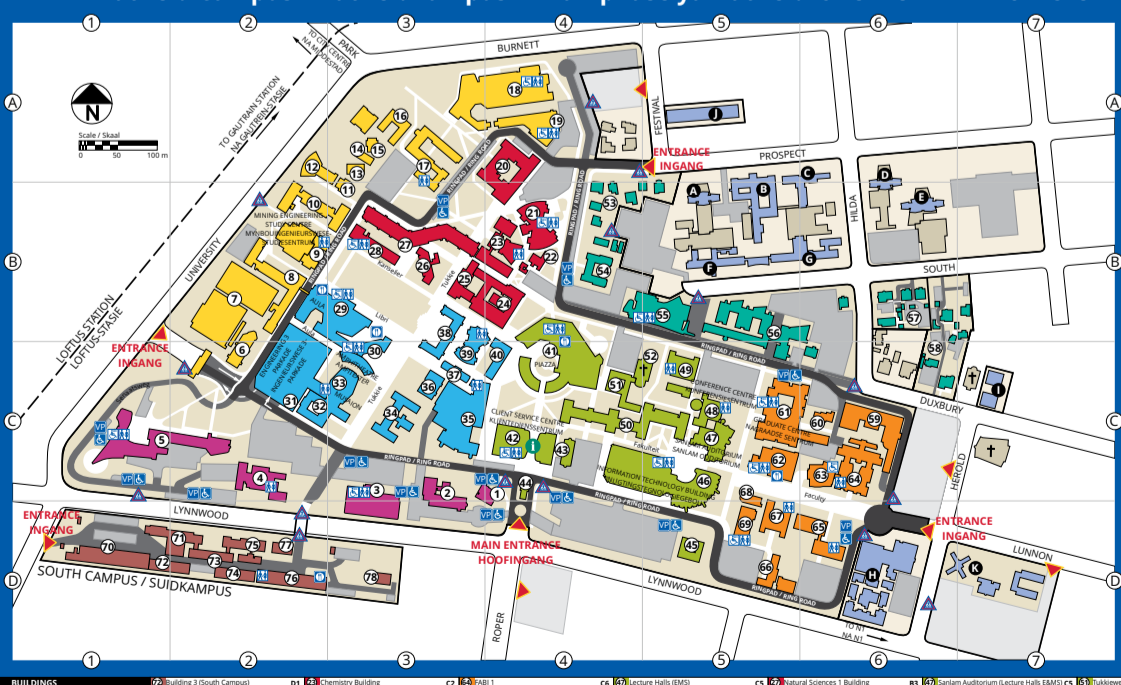



**Anton Eberhard** is a Professor Emeritus and Senior Scholar at the University of Cape Town where he directs the Management Programme in Infrastructure Investment, Reform and Regulation at the Graduate School of Business. His research and teaching focuses on governance and regulatory incentives to improve utility performance, the political-economy of power sector reform, investment challenges, and linkages to sustainable development. He has worked for more than 35 years in the energy sector across Sub-Saharan Africa and other developing regions, and was the founding Director of the Energy and Development Research Centre. He is a Foundation Member of the Academy of Science of South Africa and previously chaired the Deputy-President's Advisory Panel on South Africa's Electricity Crisis.

### Directions to **UP Parkade and Venue, Engineering I BLDG, 1-2 (Basement):**

- GPS coordinates **S25° 45' 21" E28° 13' 51" UP HATFIELD CAMPUS**
- Use University Road entrance; Security staff will guide you to the Visitors' parking area, Engineering 3 bldg
- Request students and security staff to guide you to Engineering I building
- Use the lift down to Level 3; walk down one level into the Foyer, where you will find lecturing Hall 1-2

### Hatfield Campus / Hatfieldkampus / Khamphase ya Hatfield S 25° 45' 21" E 28° 13' 51"





**UNIVERSITEIT VAN PRETORIA**  
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Category	Code	Name	Code	Name	Code	Name	Code	Name	Code	Name
BUILDINGS	C2	Building 3 (South Campus)	D1	Chemistry Building	C2	FAB1	C6	Lecture Halls (EMS)	C7	Natural Sciences Building
	C3	Building 4 (South Campus)	D2	Client Services Centre (CSC)	C3	Law Centre	C8	Physical Sciences Building	B3	Old Arts Centre
	C4	Building 5 (South Campus)	D3	Library	C4	Law 2	C9	South Hall (Chemistry Building)	B4	Old Arts Centre (Chancellor's Building)
	C5	Building 6 (South Campus)	D4	Management Sciences Building	C5	Law 3	C10	South Hall (Chemistry Building)	B5	Old Arts Centre (Chancellor's Building)
GEBOU	C1	Throne	D5	Engineering 1 Building	C6	Law 4	C11	South Hall (Chemistry Building)	B6	Old Arts Centre (Chancellor's Building)
	C2	Throne	D6	Engineering 2 Building	C7	Law 5	C12	South Hall (Chemistry Building)	B7	Old Arts Centre (Chancellor's Building)
	C3	Throne	D7	Engineering 3 Building	C8	Law 6	C13	South Hall (Chemistry Building)	B8	Old Arts Centre (Chancellor's Building)
	C4	Throne	D8	Engineering 4 Building	C9	Law 7	C14	South Hall (Chemistry Building)	B9	Old Arts Centre (Chancellor's Building)

**UP EMERGENCY NUMBER: 012 420 2310**

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