

68TH AMEU CONVENTION 2022

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A JUST ENERGY TRANSITION ("JET") FOR SOUTH AFRICA

The Role of South African Distribution Utilities in a Just Transition to Electric Vehicles

Presented by Joel Nana, Project Manager Sustainable Energy Africa



What is a Just Transition?





- Securing people's livelihoods when economies are shifting to sustainable production...
- South Africa's Just Transition plans include incentivising new green sectors of the economy such as electric mobility - utilities will play a pivotal role in this.





- **10% all new vehicles sold in 2022 are electric.**
- SA's export markets banning ICE vehicles by 2035.
- EV uptake in South Africa is growing rapidly



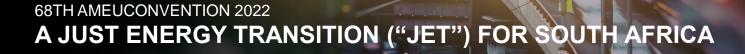
Municipalities have a significant role to play in ensuring that this transition is just and supports mass transit plans of our cities



The role of utilities in the transition to electric vehicles

- Manage the local distribution grid
- Set appropriate EV charging electricity tariffs;
- Enable non-discriminatory access to the grid for charging electric vehicles

Ensuring all groups are not unfairly impacted.



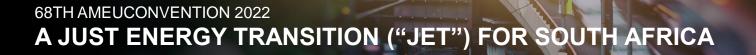




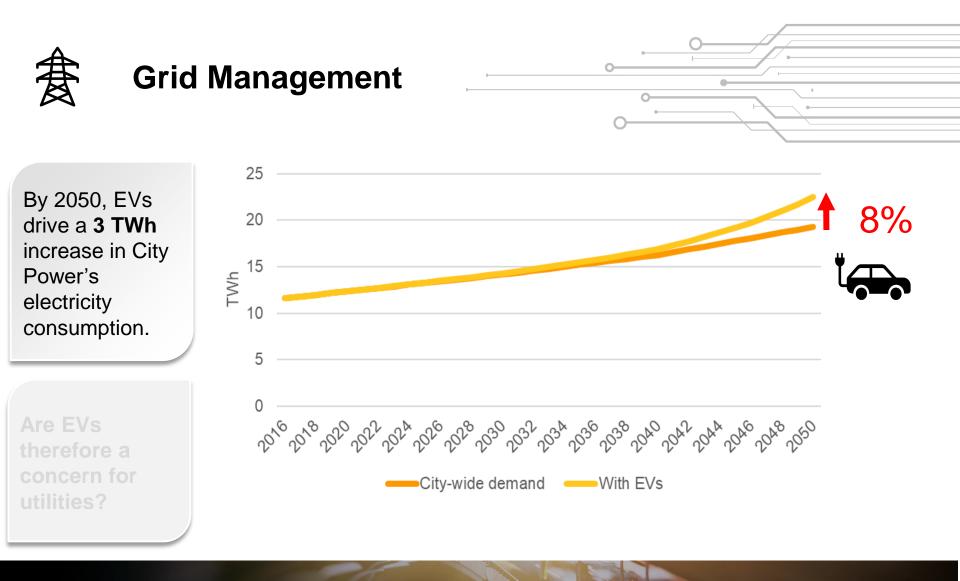


South Africa's grid is one of the largest mechanisms of **redistributive social protection.**

Protecting technical integrity of the grid and financial viability of distributors is **critical** to ensuring low income households continue to receive high-quality affordable electricity.













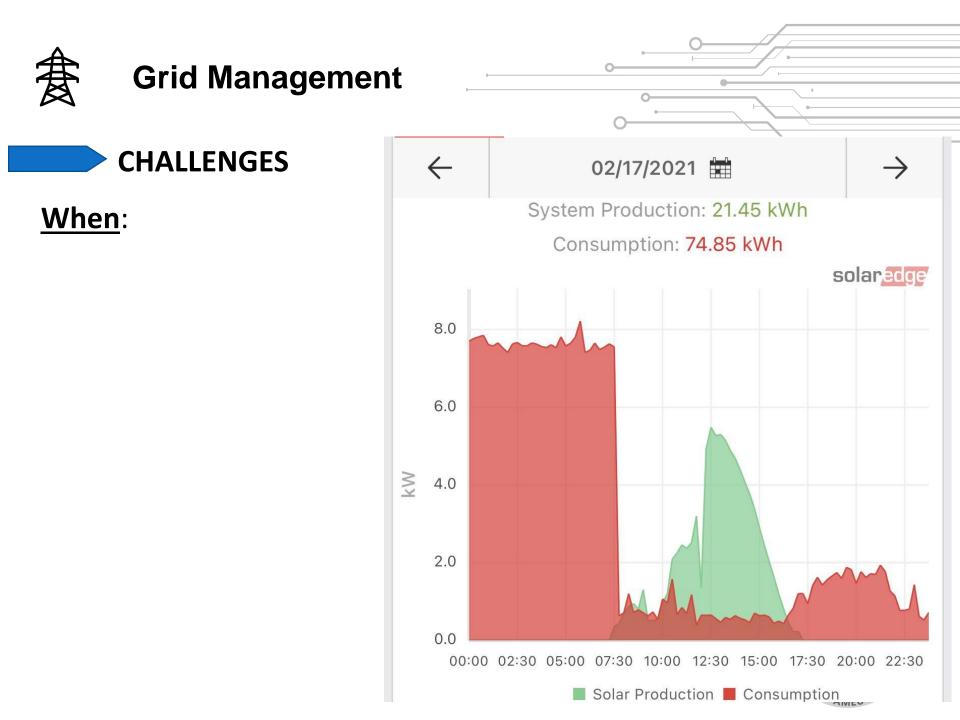




1. It is a <u>Where</u> and <u>When</u> issue

<u>Where</u>: Electrification of vehicles will increase electricity demand on networks where they charge.



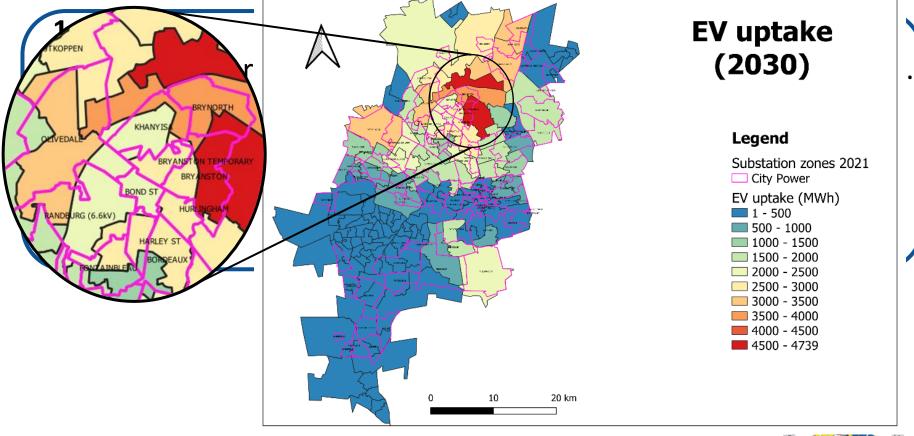




Grid Management











Grid Management



SOLUTIONS

2. When

Effective management of EV charging – incentivising charging during off–peak hours (chargers will have this smart functionality built in).

Developing TOU tariffs to encourage off-peak charging

Incentivise public charging by offering reduced tariffs to public charge station owners – offered to customers.

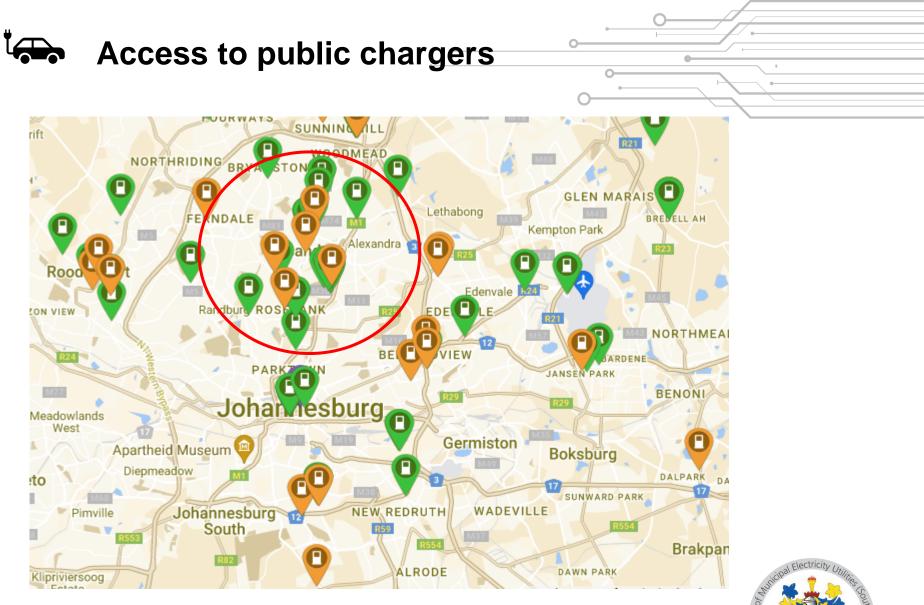






South African utilities have a **mandate** to **facilitate and coordinate** the development of public infrastructure.











CHALLENGES

Insufficient public chargers

Few public chargers, particularly in low income areas.

No chargers available for public and mass transport.

Addition of municipal owned public chargers in high income areas could go against MFMA.





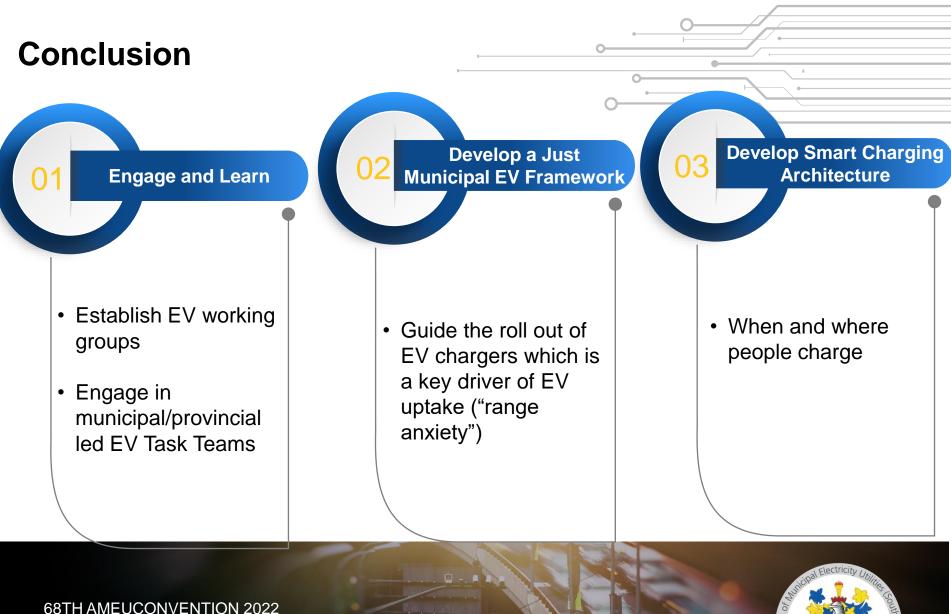


SOLUTIONS

Access to chargers for low income communities

A just transition to electric vehicles will only be realised if there is an effort to provide EV charging facilities **for mass transit** and to those who will face greatest barriers to adoption





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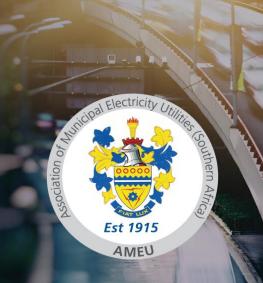
Conclusion



South African distribution utilities have a <u>clear role</u> in ensuring a just transition to taking up electric vehicles.







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Thank you

