



68TH AMEU CONVENTION 2022

Durban International Convention Centre

2 – 5 October 2022

A JUST ENERGY TRANSITION (“JET”) FOR SOUTH AFRICA

Calculating fair use-of-system charges for wheeling

Josh Dippenaar, Sustainable Energy Africa

Terry Njuguna, Eskom Distribution

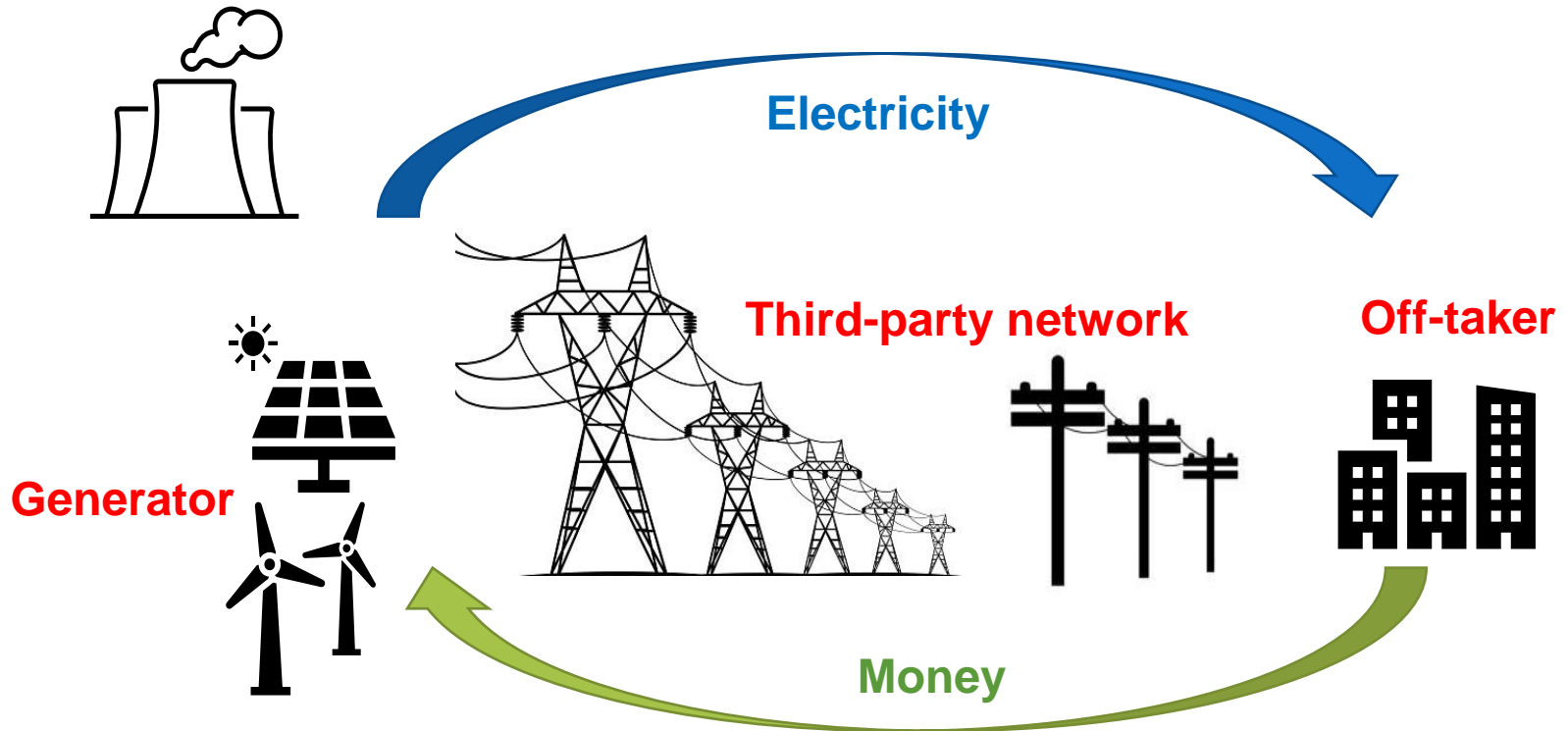
Megan Euston Brown, Sustainable Energy Africa

Bongani Khonjelwayo, NERSA

Hosted by



What is wheeling?



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A compelling case for wheeling



Today



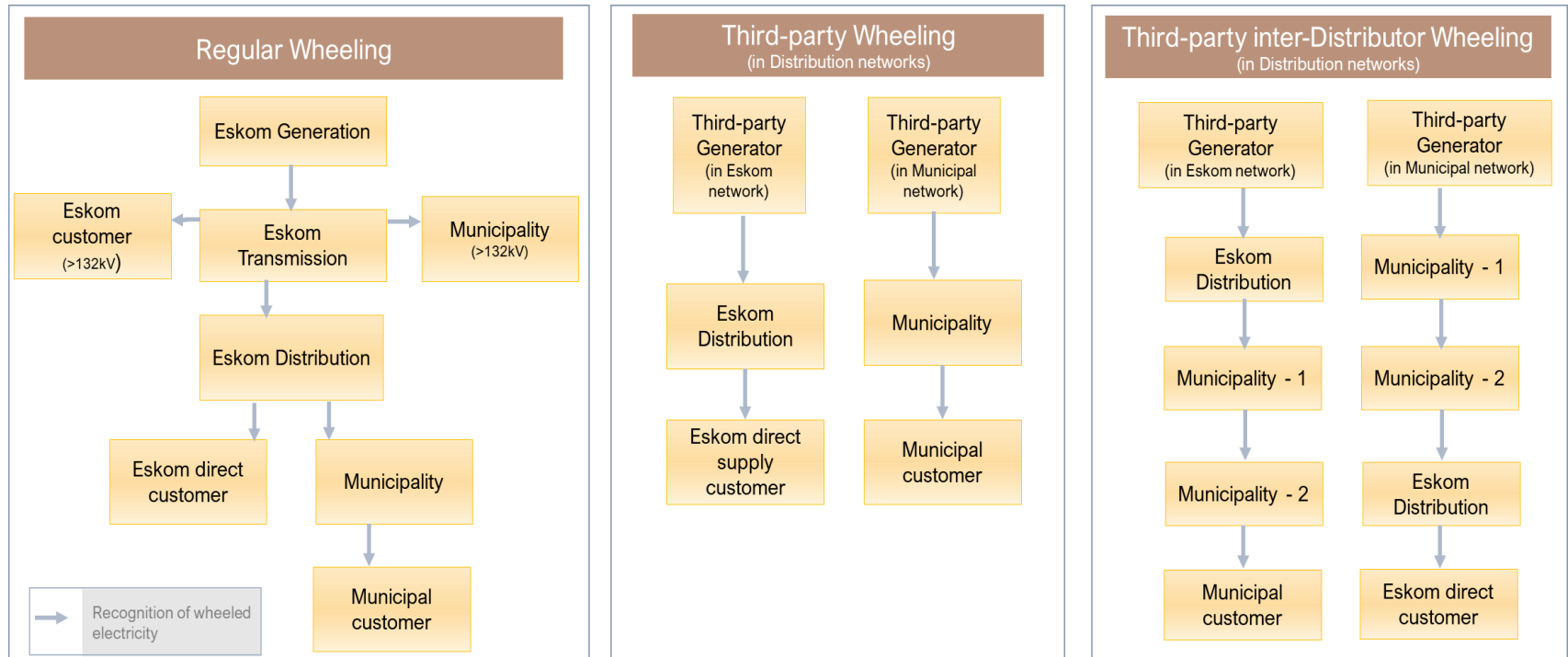
Tomorrow



- Legal requirement
- Renewable energy procurement
- Price certainty through bilateralism
- Higher share of distributor network revenues from use-of-system charges



Wheeling in distribution networks

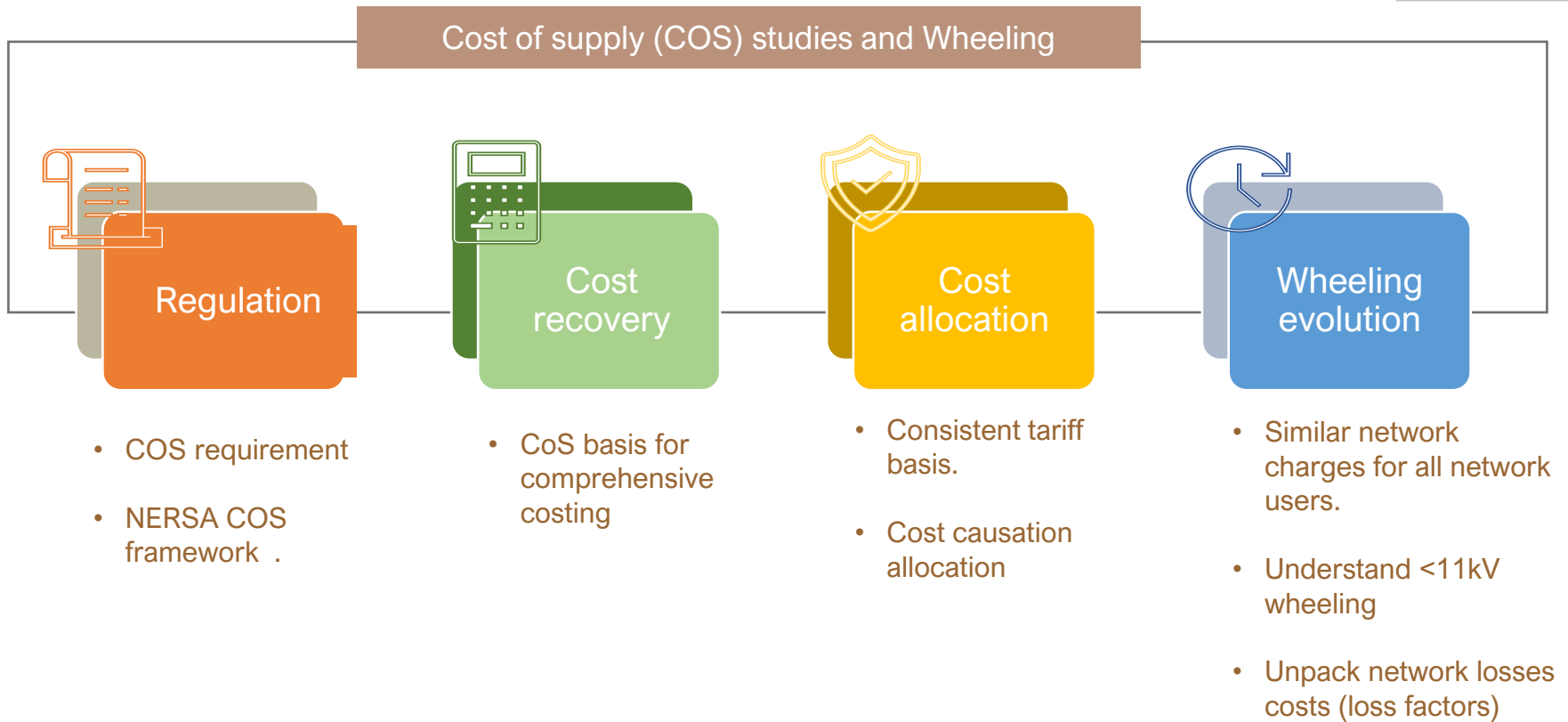


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Enabling fair wheeling through COS studies

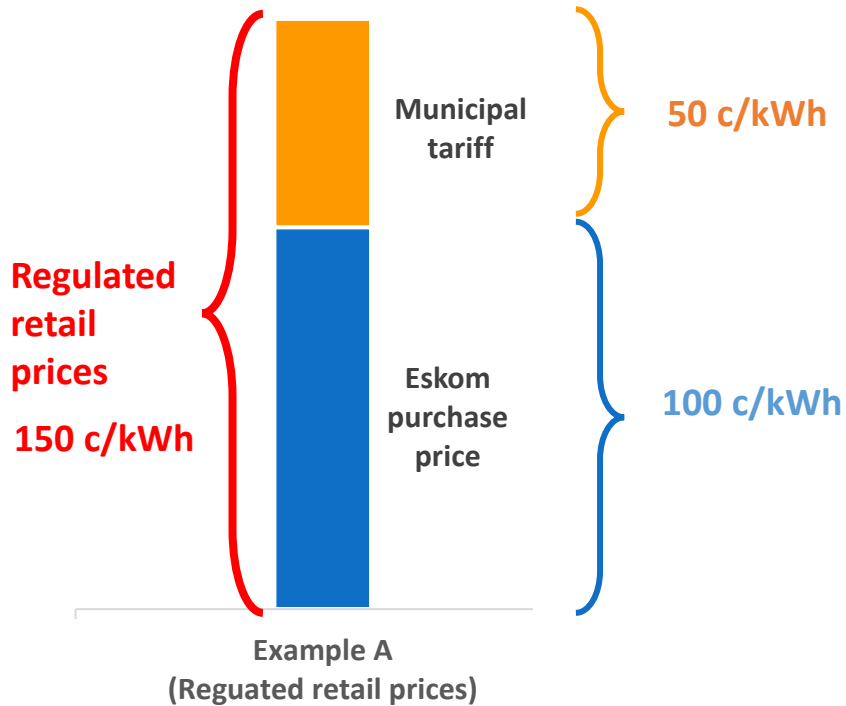


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Calculating fair use-of-system charges

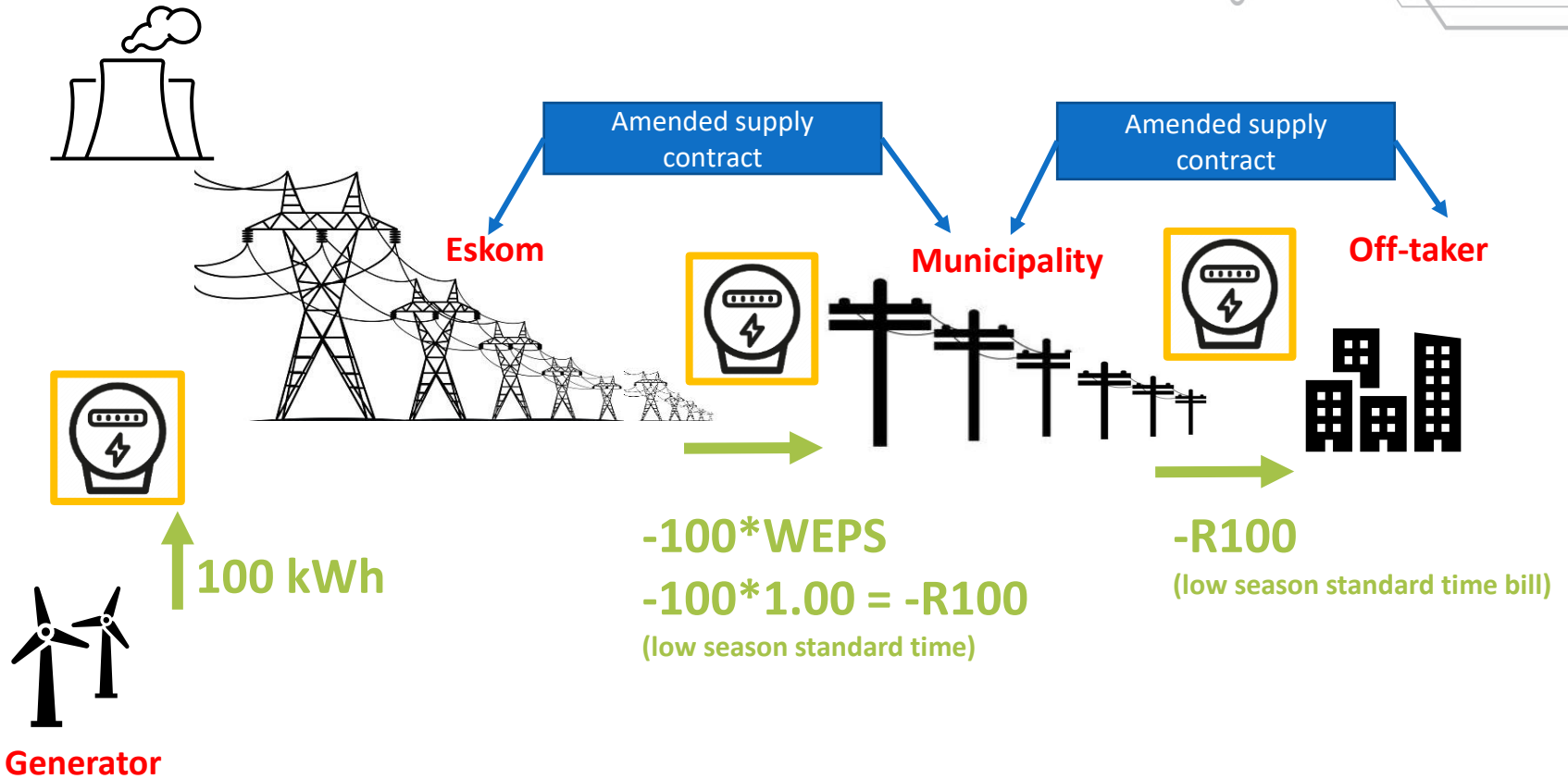


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Scenario: Eskom-connected generator



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Example Eskom bill with wheeling credits



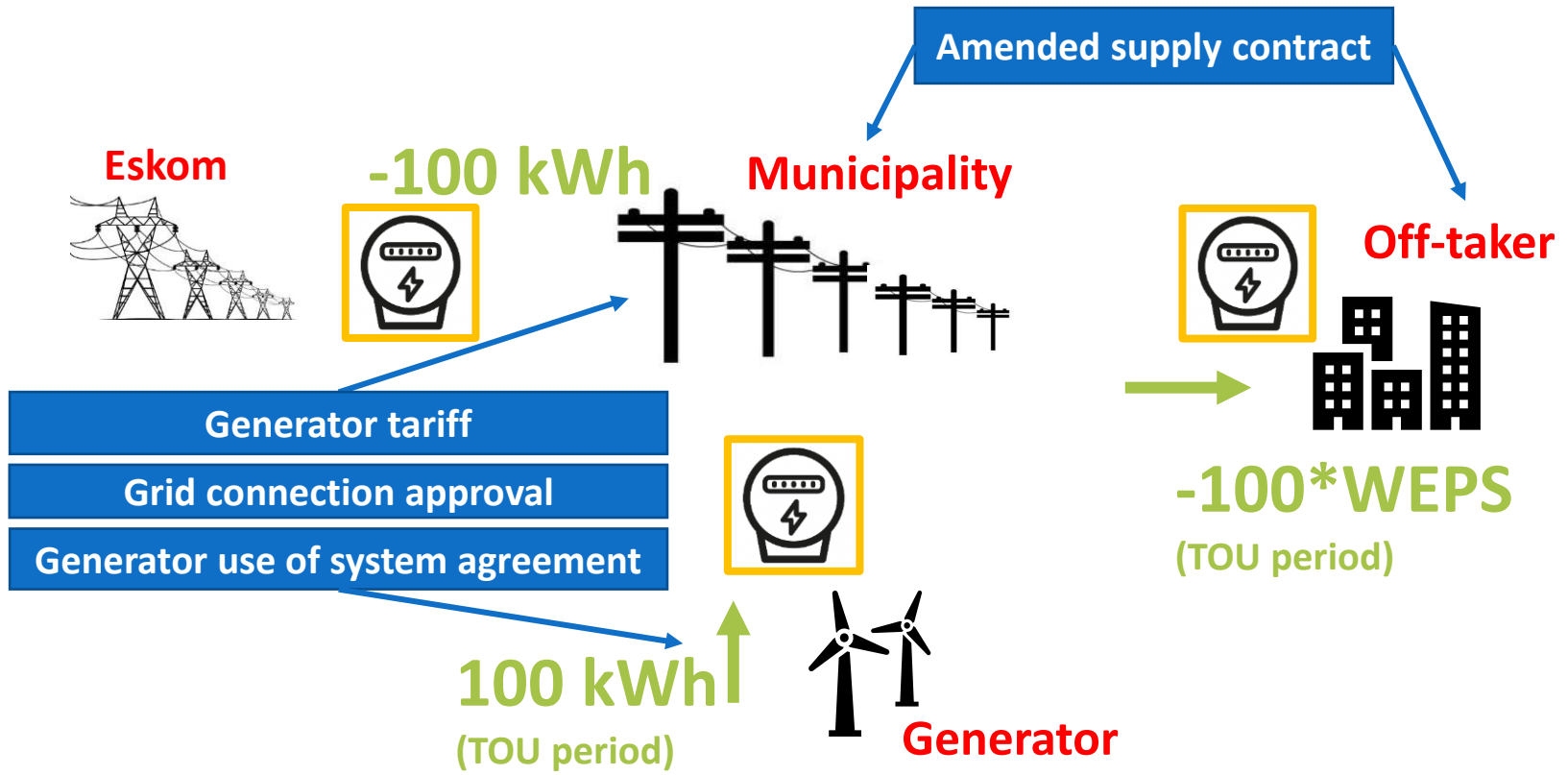
CONSUMPTION DETAILS (2019-12-01 - 2019-12-31)			
ENERGY CONSUMPTION OFF PEAK kWh			- 79,387.42
ENERGY CONSUMPTION STD kWh			- 59,846.51
ENERGY CONSUMPTION PEAK kWh			- 16,665.04
PREMISE ID NUMBER		Gen-wheeling Munic	
[REDACTED]			
Administration Charge @ R137.83 per day for 31 day			
Low Season Standard Energy Charge -59,847 kWh @ R		R	4,272.73
Low Season Peak Energy Charge -16,665 kWh @ R		R	-41,450.03
Low Season Off Peak Energy Charge -79,387 kWh @ R		R	-16,769.99
TOTAL CHARGES		R	-34,882.65
		R	-88,829.94

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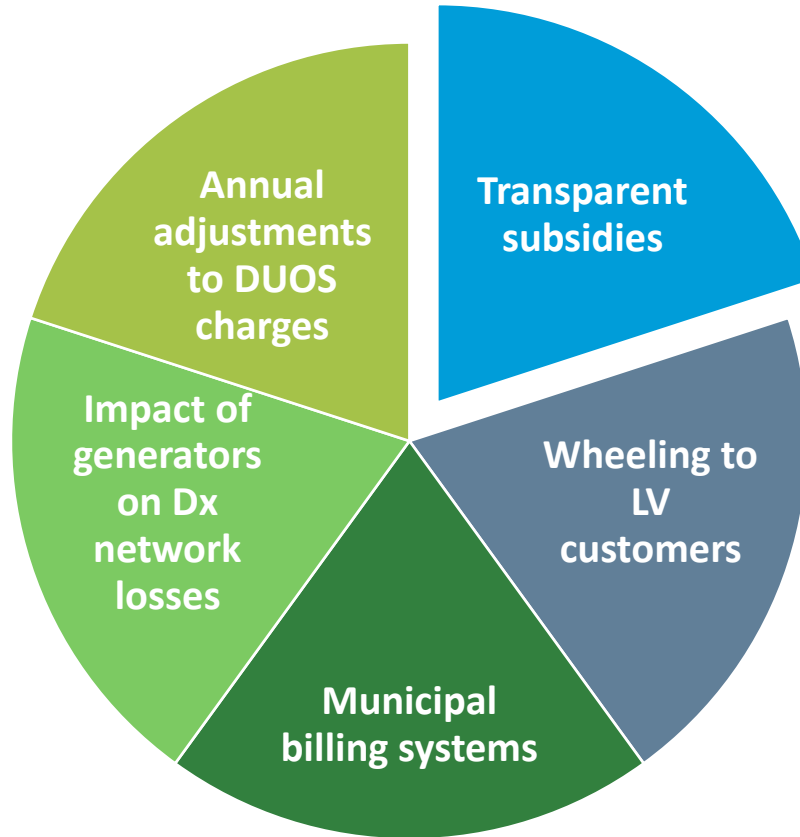
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Scenario: munic-connected generator



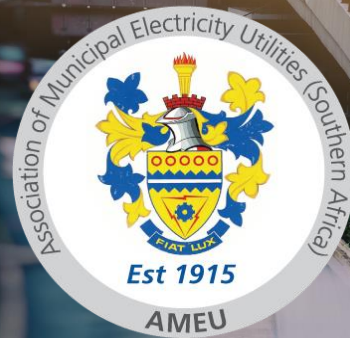
Areas to further develop wheeling



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Thank you

For wheeling training 31 Oct – 4 Nov
Please contact: support@sseg.org.za

