

Background

Electricity supply constraints (load shedding), together with increasing electricity tariffs and decreasing prices of renewable energy technologies, have driven the substantial uptake of **Embedded Generation (EG)** in South Africa.

According to analyses by Eskom and the evaluation of satellite images published by the South African Photovoltaics Industry Association (SAPVIA), nearly 4.9 GW of behind the meter generation (mainly PV) is operational in South Africa.

While this fivefold increase within 18 months is to a large extent a response to load shedding, embedded generation is a viable option for an increasing number of customers segments and consequently, the market will continue to grow.

Generally most utility-scale renewable generators are connected to Eskom's grid, whereas the majority of commercial, industrial and residential embedded generation is connected to municipal distribution networks.

Field of Intervention:

Embedded Generation

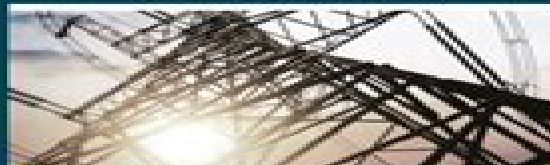
Every roof can deliver clean energy, every distribution network should integrate it



Challenges

The unprecedented uptake of embedded generation – mainly rooftop solar photovoltaic (PV) – has significant implications for network service providers, in terms of financial, technical and safety impacts.

For example, the loss in revenue caused by customers generating part of their own electricity demand is contributing to the financial distress of municipalities.



Systems connected to the grid not adhering to codes and standards can pose a safety hazard to municipal staff working on lines. Knowledge about the capacity and location of embedded generators is an essential input variable for network expansion considerations.

Since the embedded generation market will continue to grow, municipalities should encourage and incentivise customers and operators to register their systems and adhere to all codes, standards and policies.

The challenges can have far adverse effects if these systems are not registered, and municipalities do not know where they are located on the distribution network.

Embedded Generation

Mr. Rohit Manglik



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