### 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 extend 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 GEOW.

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 in an essential input variable

#### 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.



giz



# **Embedded Generation**

**Didier Musso** 



Whispering the Techniques of Language: An Emotional Quest through Embedded Generation

In a digitally-driven earth where displays reign great and quick connection drowns out the subtleties of language, the profound techniques and psychological nuances concealed within phrases frequently move unheard. However, nestled within the pages of **Embedded Generation** a interesting fictional value pulsating with natural thoughts, lies an exceptional quest waiting to be undertaken. Composed by a talented wordsmith, that enchanting opus encourages viewers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the very fabric of each word. Within the psychological depths of the moving review, we can embark upon a honest exploration of the book is core styles, dissect its charming publishing design, and fail to the strong resonance it evokes serious within the recesses of readers hearts.

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