South africa smart grid

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South African Smart Grids Initiative (SASGI) is a stakeholder participation driven ...

The Smart Grids Programme is one of the six flagships programmes within the South African National Energy Development Institution (SANEDI).Smart Grids programme is focused on the introduction of various concepts of Smart Grids within the South African Electricity Distribution Industry (EDI).

SANEDI smart grids team"s mandate is to integrate and optimise distributed energy resources to achieve a more efficient and reliable grid, enable active participation of consumers with more environmental constraints.

The Smart Grid Programme addresses the Government"s Medium Term Strategic Framework (MTSF) objectives of Energy Transformation and Service Delivery. With regards to Energy Transformation, technology innovation is used as an enabler for change. The introduction of Smart Grid technology is a key enabler for South Africa to achieve its energy mix. Without smart grids large scale integration is impossible. This allows South Africa to meet its climate change objectives at municipal level. With regards, to Service Delivery, Smart Grid Technology is enabling the use of integrated systems and processes in the municipal environment thus enabling efficiencies and effectiveness not seen before in the municipal environment.

Accelerating the implementation of energy research and development, improving energy efficiency and increasing the uptake of renewable energy to the benefit of South Africa.

An economically evolved technology-enabled electricity system that is intelligent, interactive, flexible and efficient. This system will enable South Africa"s energy use to be sustainable for future generations.

The effective deployment of technology in the electricity supply industry (ESI) is worldwide recognised as a key business enabler. The implementation of an appropriate technology contributes amongst others to improved customer service, improved business efficiency and improved business sustainability. The desirability of a smart grid project is steadily picking up attention in South Africa. As a result, the attractiveness of this technology is gaining much interest for the benefits it produces. Smart Grid is an essential transformative network that facilitates the efficient use of energy and the integration of renewable energy to meet the energy demand of various consumers.

Based on ETPSG definition, Smart Grid employs innovative products and services together with intelligent monitoring, control, communication, and self-healing technologies to:

The shift towards implementing a smart grid strategy in South Africa is intended to fast track the development of establishing an adequate electricity supply system or network for two basic reasons, namely the improvement and upgrade of the "business as usual" (BUA) grid and the outcome of substantial benefits that

come with establishing a smart grid. For much that has been gathered, the value application of a smart grid is said to have benefits in the following key valuable areas:

by reducing the cost and improve the manner in which electricity is produced, distributed and consumed.

a reductions in the threat probability such as manmade e.g. theft or technical loss e.g. negligence

reduce injuries and loss of life relating to grid fatalities.

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