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South African National Energy
Development Institute (SNC) Ltd.



Sustainable Digital Dialogues

Session 1: Sustainable Digital Transformation in Africa *Challenges and Opportunities*

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ENERGY INNOVATION FOR LIFE

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mandate

The *National Energy Act, 2008* (Act No. 34 of 2008), Section 7 (2) provides for **SANEDI** to direct, monitor and conduct *energy research and development*, as well as undertake measures to promote *energy efficiency* throughout the economy.








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FLY THE FLAG
for South Africa

Presentation Objective



-  *Examine the latest trends of digital transformation in Africa.*
-  *Share insights and experiences on implementing digital solutions.*
-  *Inclusive infrastructure to accelerate progress towards sustainability.*
-  *Recovery of the global pandemic.*
-  *Putting standards in place.*
-  *The need to implement meaningful policies.*
-  *Ensure usability and affordability in digital technologies.*

A Definition



- 🌐 Digitalization describes the growing application of information and communications technology (ICT) across economies throughout the world, leading to increasing volumes of data, rapid progress in advanced analytics, and resulting in greater connectivity between humans, devices and machines, (including machine-to-machine).
- 🌐 From sensors in **commercial buildings** to the rise of automated vehicles, digitalization has significant implications for how the world produces and consumes energy, amongst other things!

A Focus Area



- 🌱 Identifying key opportunities for digitalisation in the buildings sector, focussing on **energy efficiency/savings potential** and additional **job opportunities**.
- 🌱 Determining the **key market forces driving change** in the global buildings sector, including but not limited to the areas of sustainability, **decarbonisation**, new business models and digitalization.
- 🌱 Obtain an overview of the **digital trends** and outline the **impact** of digital transformation in the global buildings sector.
- 🌱 Identify **key technologies** behind the digital trends, globally.
- 🌱 Assess the **state of digital adoption/digital maturity** of the global buildings sector.
- 🌱 Obtaining an overview of the **top digital solution providers** in the digital buildings space with a **South African presence**, including their value proposition, key activities and target customer segments.

Conclusion



There is no doubt that the concept and evolution of digitalization, as an energy efficiency instrument, will **revolutionise** the future way we design, implement and monitor energy efficiency interventions in South Africa and all over the world. South Africa is fully aware of these developments and there are ‘pockets’ of activity taking place in the country, e.g., through home automation interventions, robotics within the mining and automotive production facilities, but we are lacking a **clear plan** on what the real energy efficiency benefits are (energy efficiency potential), the best-in-class digital technologies available in the local market and what **policy and regulatory instruments** will need to be developed, to cater for this ‘new’ way of doing things.



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**THANK
YOU**

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