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South African National Energy
Development Institute (SOC) Ltd.

IMPLEMENTATION ON BEHALF OF DMRE

LED WALKWAY WEBINAR

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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.

The South African National Energy Development Institute



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Mineral Resources and Energy
REPUBLIC OF SOUTH AFRICA



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South African National Energy
Development Institute



- Research & Development of technology
- Data Management
- Capacity Building
- Project Management
- Demonstration & Pilot Projects

LED TECHNOLOGY DEMONSTRATION at THE INNOVATION HUB

PHASE TWO : PROJECT OBJECTIVES



- Demonstration of energy efficient and innovative street lighting, using latest LED technologies.
- The project is directed at South African municipalities, to assist in the process of replacing conventional (inefficient) public street lighting with the latest (energy efficient) LED technologies and new tele-management systems.
- It serves as a “*Lighthouse Project*” showing latest and innovative technologies and is supporting the establishment of a “*Green Economy*” in South Africa.
- Demonstration of “Internet of Things” (IoT), using latest control technology for lighting fixtures, (wireless, bi-directional).
- To provide Local Suppliers of LED street lighting equipment an opportunity to exhibit their innovative LED technologies.
- To expand on LED technology research, through collaboration with local Universities and other research institutions.

LED TECHNOLOGY DEMONSTRATION at THE INNOVATION HUB PROJECT STAKEHOLDERS



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Implemented by



DMRE PROJECT IMPLEMENTATION

- Engagement of technology suppliers and developers in the energy sector, to assist Government in adopting specific technologies.
- Engagement of technology suppliers to voluntarily offer demonstration products (hardware), in support of energy efficiency programmes.
- Hand-over of such technology to The Innovation Hub Management Company.
- Provide support and co-ordination to the project.
- Provide support for technical planning of the project and its implementation.
- Support the mobilization of Exhibitors and their in-kind contributions.
- Close coordination with funders for the project implementation.
- Mobilization of relevant public and private research (UP, CSIR, City of Tshwane, SANEDI and others), in collaborative partnership programmes.
- Facilitation of skills development in LED technologies and tele-management Systems.

DMRE PROJECT IMPLEMENTATION PHASE TWO: PROJECT STATUS

- Through collaboration between DMRE, the city of Tshwane and The Innovation Hub Management the project phase two will see an extension of the demonstration site to cover the entire Campus lighting.
- The DMRE and The City of Tshwane to provide funding through the EEDSM grant
- The City of Tshwane to provide Technical support including Energy Audits & drafting of the LED technical specification.



- Project Concept to be expanded to **six Special Economic zones (SEZ)** across South Africa



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THANK YOU!