



# REQUEST FOR QUOTATION FOR THE PURCHASE & INSTALLATION OF METERS, MANAGEMENT OF CLOUD-BASED AUTOMATED METER READING SYSTEM FOR PUBLIC BUILDINGS AND WASTEWATER TREATMENT PLANTS FOR A PERIOD OF 24 MONTHS

NATIONAL TREASURY GENERAL BUDGET SUPPORT/EUROPEAN UNION PROJECTS

## Request for Quotations (RfQ 7): BID 161

Briefing Session

18 May 2021

11:00 – 12:00



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# Presentation Outline

- Energy Efficiency Projects Overview
- Governance Structure
- Scope of works
- Sites
- Key considerations
- Evaluation Criteria
- Q&A



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# Overview of the Two Energy Efficiency Projects

- The **DMRE** and **SANEDI** are embarking on an **energy performance contracting** for the implementation of high-efficient technologies in **selected government buildings** and **wastewater treatment plants** (WWTPs) with suitable Energy Service Companies (ESCOs) from an existing and approved panel of service providers.
- Moreover, the projects will contribute towards the **implementation of the regulations for the mandatory display and submission of Energy Performance Certificates**, specifically in government buildings; and **achievement of net-zero energy of WWTPs**.
- The two energy efficiency projects are funded under the **National Treasury General Budget Support** (GBS) through a **grant funding from the European Union** (EU).
- In these projects, **DMRE is responsible for the management of the supply and installation of the selected technologies**, whilst **SANEDI is responsible for planning, monitoring and verification of energy savings** including determination of energy consumption baselines.



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# Governance Structure

**GBS 4 EU Energy Efficiency Project  
Management Team (PMT)**

**Department of Mineral Resources and Energy**  
Programme Management - GBS 4 EU Programme  
& National EE strategy – **Mr. Mabusela**

**South African National Energy Development Institute**  
Implementation Agency & Project Management,  
Reporting & Evaluation – **Mr. Bredenkamp**

**Sub-Working Groups**  
**WWTPs and Government Buildings Energy Performance Improvement**  
**DMRE:** Ms Brenda Phahlamohlaka and Ms. Lebogang Nkhwashu & **SANEDI:** Mr Teslim Yusuf

**DMRE: Energy Service Company (ESCO):**  
Retrofits and Maintenance

**SANEDI: Measurement and Verification,**  
Project Data, Project Management

**Implementation of RE&EE measures in 3 wastewater  
treatments plants and 18 Government Buildings**



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# Scope of Work

1/4

The installation of 50 smart electricity meters, connected to an automated meter reading (AMR) cloud-based platform, that allows for remote reading of parameters to establish energy consumption baselines and carry out individual Measurement and Verification (M&V) post-retrofit assessments across South Africa



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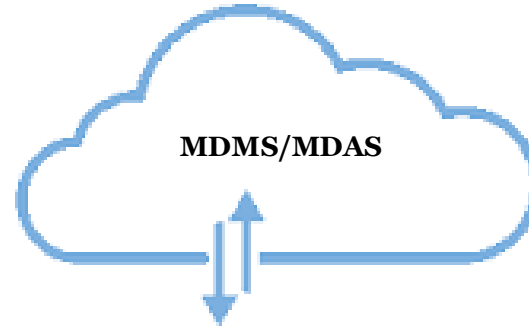
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# Platform Architecture



Fully integrated, secure platform



DMRE Officials



SANEDI Officials



M&V Experts



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# Scope of Work

3/4

- **50 Smart Electricity Meter** with keypad, CT Current Transformer (CT), GSM/GPRS 3G/4G MODUL (**40 Three** and **10 single** phase meters)
  - Accuracy: kWh Class 1 or Class 2 and kvarh Class 2 or Class 3
  - Networks: Single and Three Phase
  - Measurement: active, reactive and apparent demand
  - Full load profiling, both kVA and kWA demand
  
- **Meter Data Communications**
  - How meters communicate with back-end systems
  - SIM Cards, Modems, antennas etc.
  
- **Cloud-Based Meter Data Management Platform**
  - The Meter Data and Acquisition Systems sit within the cloud-based platform
  - The network architecture shall comply with the Protection of Personal Information Act No. 4 of 2013 (POPIA) and be a locally hosted within a South African data centre
  
- **User Web Interface**
  - User access to meter data and information
  - User to interact with content or software running on a remote server through a **Web** browser.
  - Data, reports are downloadable in multiple formats



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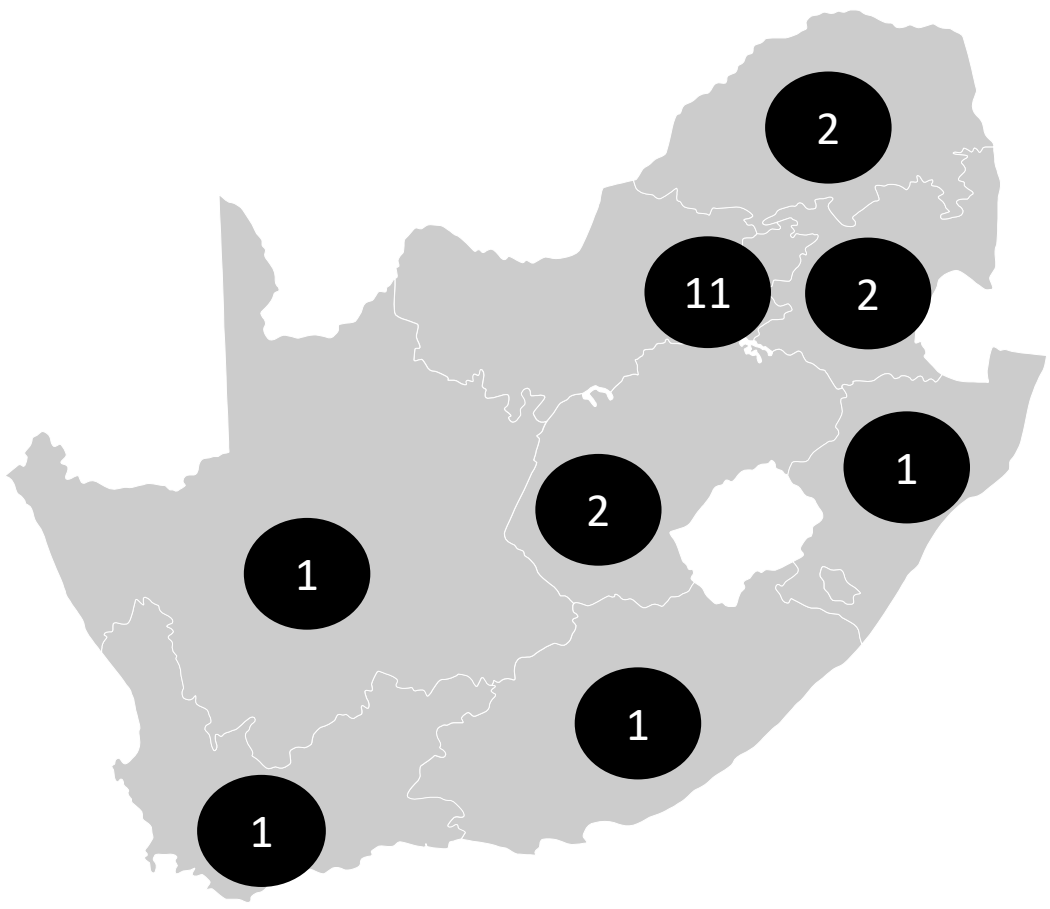


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# Our Project Sites



#	Province	No. of Sites
1.	Eastern Cape	1
2.	Free State	2
3.	Gauteng	11
4.	KwaZulu-Natal	2
5.	Limpopo	1
6.	Mpumalanga	2
7.	Northern Cape	1
8.	Western Cape	1





# Key Considerations


## Key Considerations for projects of this nature

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- Competency and capacity of the company to handle multiple installations across the country
- Security of the platform, data against cyber attack, natural/man-made disasters
- Adherence to Standards and Regulation pertaining to smart meters, cloud-based platform, communications networks, SIM cards registration, web interface
- Adherence to National Treasury stipulated minimum threshold of 50% for local production and content of residential electricity smart meters
- Protect of user information data according to the POPIA and other best practice
- All associated cost for meter installation must be incorporated into quotation and not stated separately



# Evaluation Criteria



#	Criteria	Weighting
1.	Competency, capacity and experience of organisation to deliver	15%
2.	Reference Letters	30%
3.	Implementation Methodology	30%
4.	Detailed Implementation Plan	25%

Minimum score is **70%**



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# THANK YOU



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