BUSINESS OPPORTUNITIES IN THE CLEAN ENERGY SECTOR

Presented by Lufuno Mukwevho
PRESENTATION STRUCTURE

- Clean Energy Branch
- Designated National Authority (DNA) and Climate Change
- Energy Efficiency Initiatives
- Renewable Energy Initiatives
- Business opportunities in the Clean Energy
- Recognised Qualifications
Clean Energy Objective

- To optimise energy utilisation through the formulation and implementation of strategies, regulations, standards, efficiency practices and process, thereby contributing to an economic growth leading to the reduction of adverse impacts of energy consumption on the environment and human health.

- In pursuing this objective there are three programmes: DNA/Climate Change, Renewable Energy and Energy Efficiency.
DNA for Clean Development Mechanism was established in December 2004 & regulations establishing DNA gazetted in July 2005 under section 25 of the NEMA Act of 1998

Cabinet approved establishment of DNA at DOE to perform the following functions:

- Regulation function:
  - Project evaluation and approval in accordance with section 40(a) of the Marrakech Accords under the United Nations Framework Convention on Climate Change.

- Promotion function:
  - To promote and facilitate the development of CDM projects in South Africa
  - Ensure that the mechanism is in the national interest (Gov. objectives)

On the 01\textsuperscript{st} June 2019, the government has introduced the Carbon Tax which will allow tax payers/companies to use carbon offset to pay for their carbon emissions liability. Carbon Tax allowance will increase investment in projects that will help the country to transit in low carbon economy.
Renewable Energy

The objective is to ensure the integration of renewable energy into the mainstream energy supply by planning and coordinating initiatives.

- Policy/Strategy Development
- Enabling Environment
- Regulations/Standards
- Guidelines for Implementation
- Awareness Campaigns
- Solar Power
- Wind Power
- Biomass/Biogas
- Hydro Power
- Hybrid Solutions
Renewable Energy Initiative

National Solar Water Heater Programme

• Reduce electricity demand and Greenhouse Gas (GHG) emissions;

• Facilitate local manufacturing industry and create employment.

• Currently there 87 000 procured SWH systems that will be installed in 19 participating municipalities

In North West province:

• JB Marks municipality - 5000 Systems - *152 Assistance installers will be trained for installation and maintenance*

• Mafikeng 5000 Systems

• City of Matlosana 5000 Systems
Energy Efficiency Initiative

- Refers to the effective use of energy to produce a given output (in a production environment) or service (from a consumer point of view),

- The goal is to accomplish the same tasks and functions as before while using less energy. It also saves money and the planet.

- Being Energy Efficient is also seen as a key solution to the reduction of Carbon Emissions.

How do we achieve this,

- Policy formulation
- Awareness and education
- Norms and standards
- Deployment of EE technologies
Some of the Energy Efficiency Initiatives in South Africa

- Energy Efficiency Demand Side Management
- Energy Efficiency Standard & Labelling
- Waste Water Treatment Plant Biogas Project
Energy Efficiency Initiatives

EEDSM Grant Fund

• EEDSM grant fund for 2019/20 has 38 participating municipalities

• The funded EEDSM projects involves the following:

  * Retrofitting of street lights, building lights & high masts, *Waste Water Treatment Plants*

• JB Marks/Tlokwe Municipality participated in the programme during the 2017/18 financial year and has retrofitted a total of 866 street lights
Business Opportunity in the Energy Sector

- **DNA & Climate Change**
  - Project Developer/Project Owner
  - Designated Operational Entity

- **EEDSM**
  - Technology supply, installation and maintenance
  - Manufacturing and assembling plants
  - Energy performance measurement and verification
  - Auditing and baseline determination
  - Recycling of waste material

- **Renewable Energy Initiative**
  - Manufacturing, Supply, installation and maintenance
  - Component manufacturing
  - Training service provider
Recognised Qualifications

- Masters/Honours/Degree/National Diploma in **Environmental Sciences**.
- Masters/Honours/Degree/National Diploma/N6 in **Electrical /Chemical Engineering**.
- Masters/Honours/Degree/National Diploma in **Energy Studies**.
- Masters/Honours/Degree/National Diploma in **Development Studies**
- Masters/Honours/Degree/National Diploma in **Project Management**
- Masters/Honours/Degree/National Diploma in **Commercial Studies**
THANK YOU

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