

UNIDO ITPO TOKYO

PRESENTATION FOR SUSTAINABLE ENERGY IN MOZAMBIQUE

Online Seminar

MAPUTO, MOZAMBIQUE



21 February 2024



CONTEXTUALIZATION

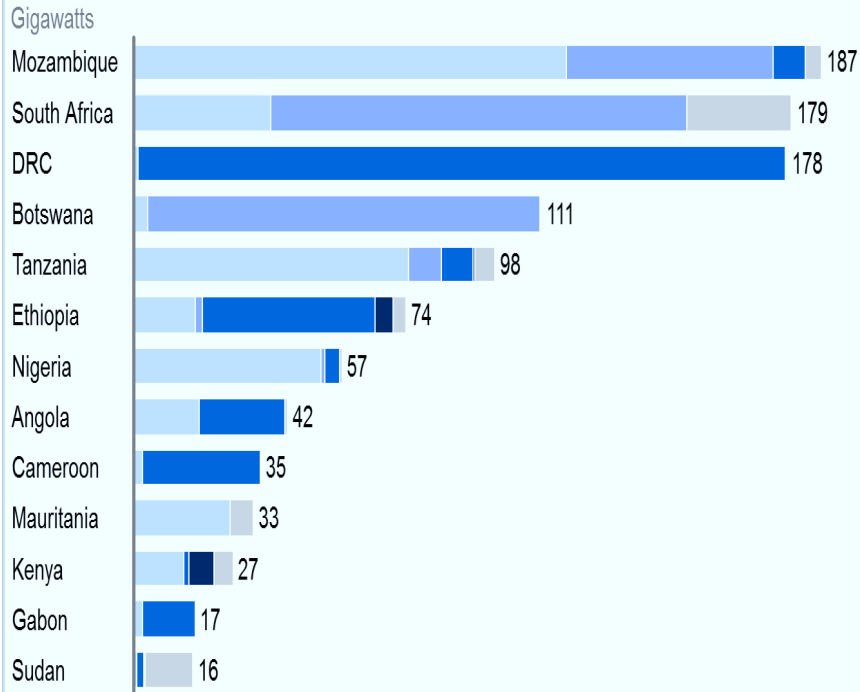
- Investments is important to make in order to contribute to increasing access to energy by 2030. These will complement the Government's efforts and constitute EDM's contribution to achieving this objective;
- EDM is investing in aimed at anchoring the energy transition and universal access to electricity, reinforcing the availability of basic energy in the system;
- These initiatives aims to improve the system's redundancy and reliability, creating conditions for the sustainable integration of renewable energy and contribute to the diversification of the energy matrix;
- Hydro is the main source of electricity generation in Mozambique, contributing to energy security, security of supply and environmental sustainability

POWER GENERATION POTENTIAL

Sub-Saharan Africa has rich potential to install ~1.2 terawatts of power capacity from a range of different technology options – not including solar

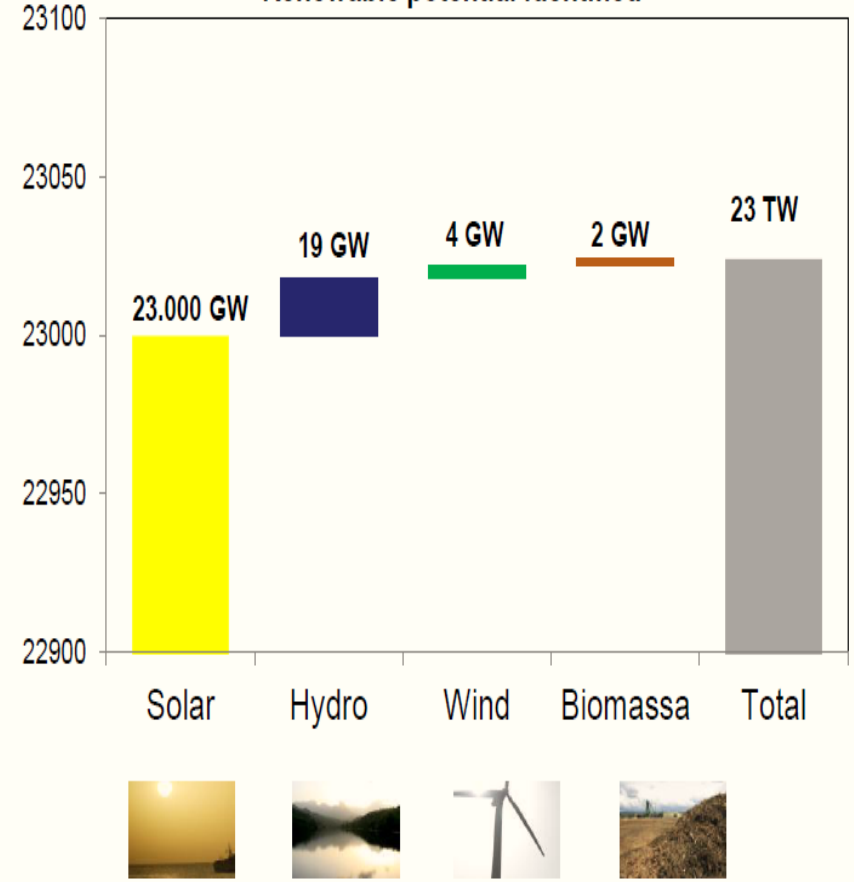
Gas Coal Hydro Geo Wind

Power-generation potential for select Sub-Saharan African countries by technology¹



(GW)

Renewable potential identified



EDM GUIDING INSTRUMENTS

UNIVERSAL ACESS

3 STRATEGIC GOALS

REGIONAL HUB

GENDER EQUITY

The Republic of Moçambique
Electricidade de Moçambique (EDM)

**Integrated Master Plan
Mozambique Power System Development**

Final Report

February 2018

Japan International Cooperation Agency (JICA)

JERA Co., Inc.

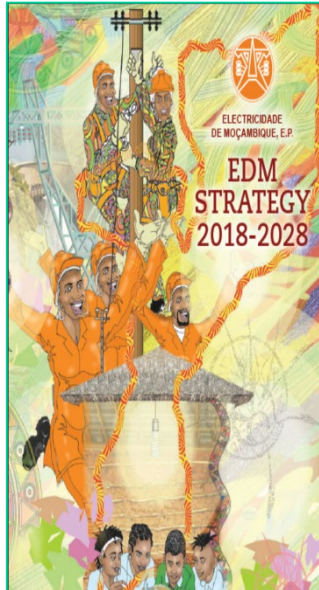


Project **National Electrification Strategy
& Plan for Universal Access to
Energy by 2030**

Document **Report 2 - National Electrification
Strategy (NES) - Draft**

Project number 1713
Presented to World Bank

Prepared by All-Mercados DM in cooperation with Estudios Energéticos
Consultores and Royal Haskoning DHV
November 2017



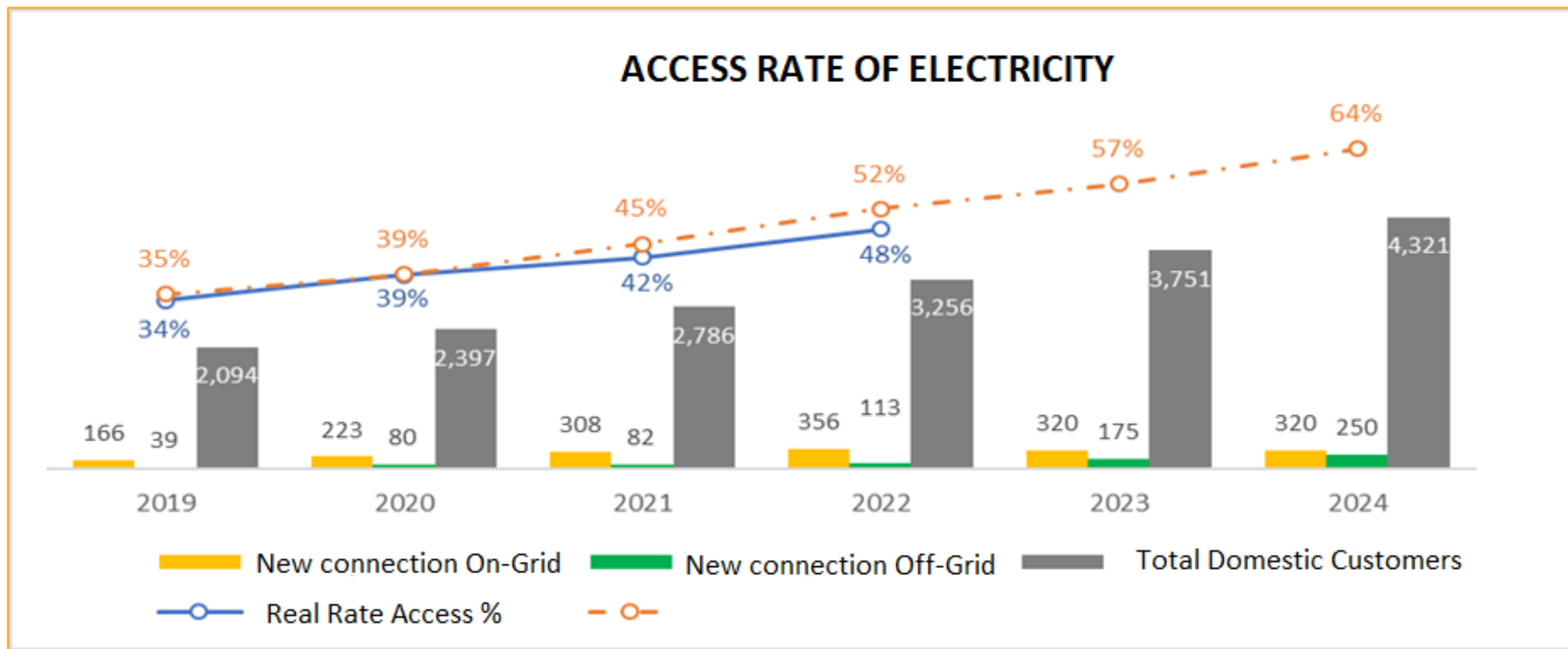
Long Term

Mid - Term

Short Term

EDM PRIORITY 1

UNIVERSAL ACCESS TO ALL MOZAMBICANS BY 2030

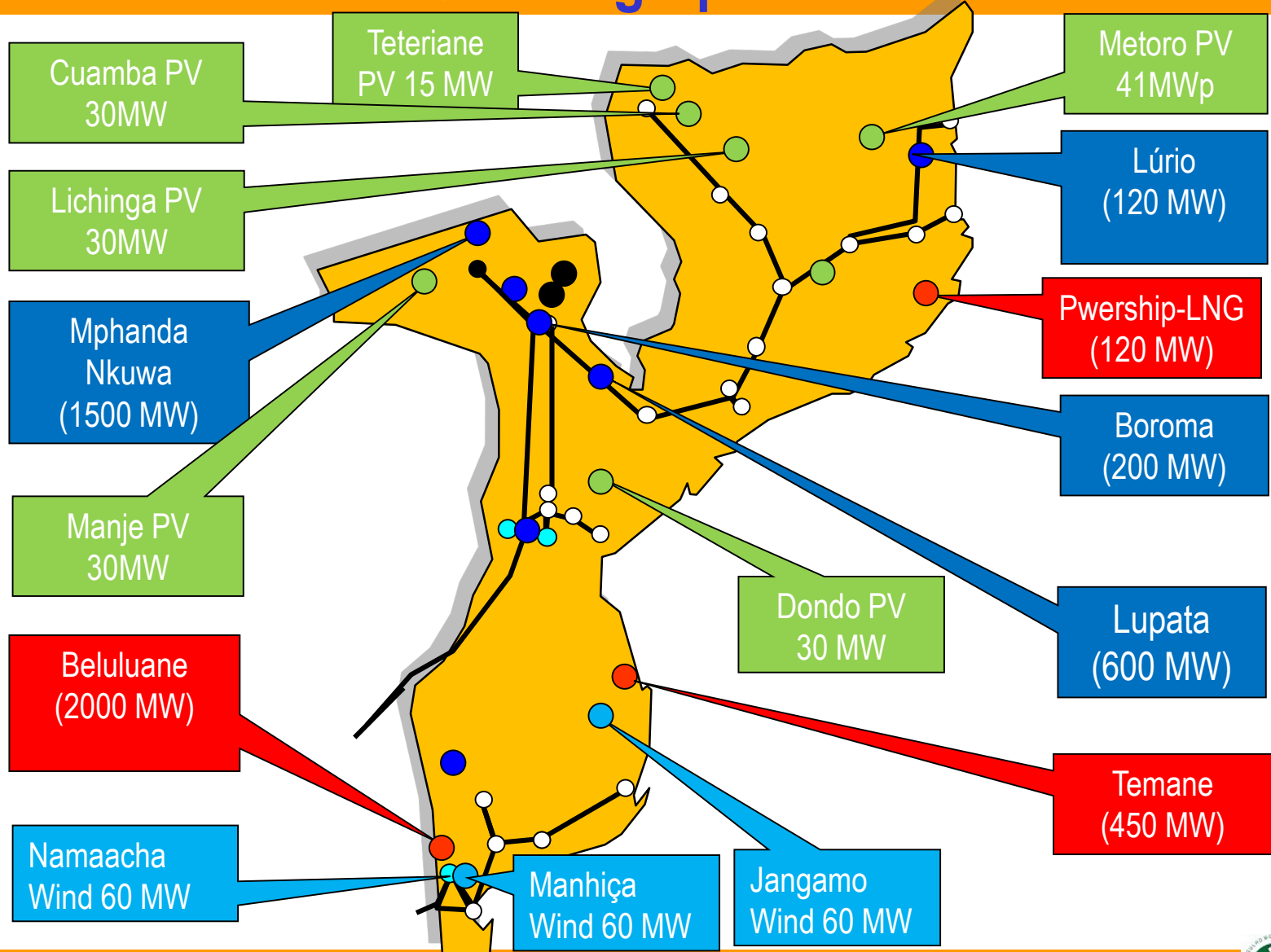


- PROENERGIA PROGRAMME launched by the Government in 2018
- Annual average of new connections from 150 to 300 thousand, corresponding to 5% annual increase
- Renewable Energy is considered in the National Energy Matrix

EDM PRIORITY 2

GENERATION PROJECTS - Geographic location

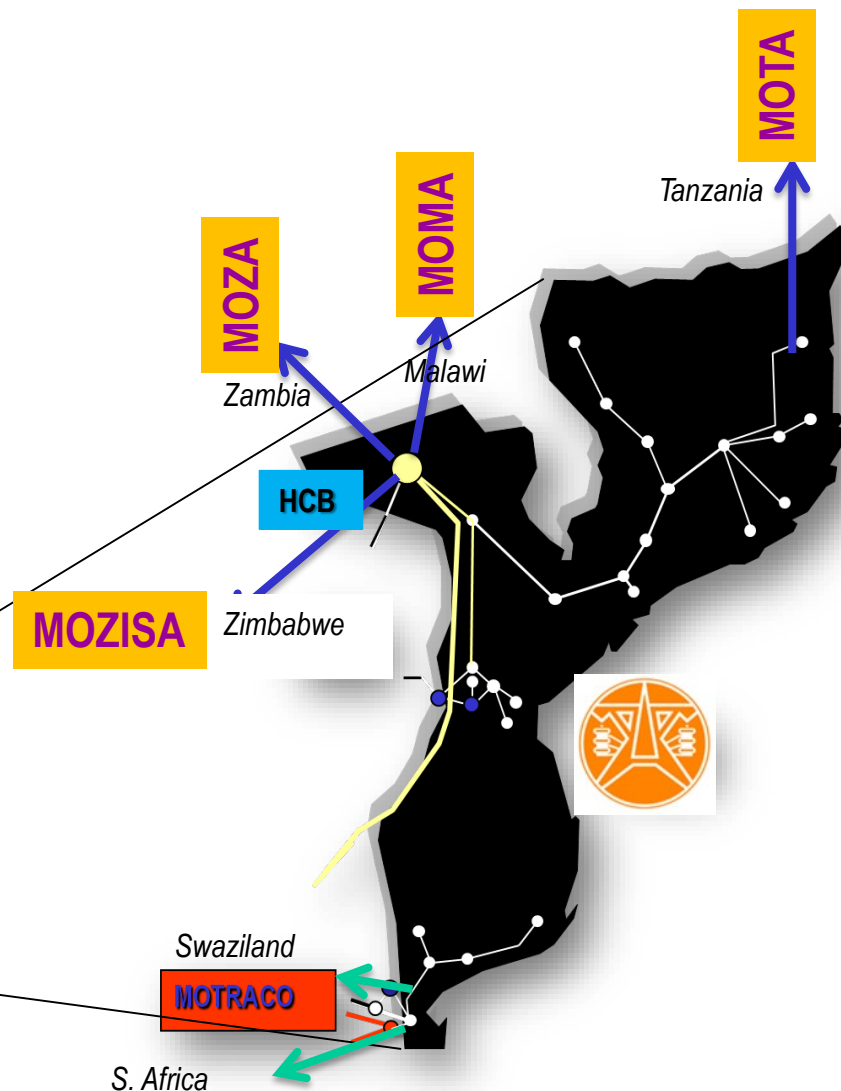
- Hydro
- Solar
- Wind
- Gas



EDM PRIORITY 2

REGIONAL HUB - Regional transmission projects

- Vast and Competitive Energy Resources to be developed profitably ;
- Privileged geographical situation (6 neighbouring countries)
- Energy Corridors Connecting Sources to Energy Markets



7 GW SAPP ENERGY DEFICIT



EDM PRIORITY 3

GENDER EQUITY - 40% of woman workforce at 2030 (SDG 5)

EMPODERAMENTO DA MULHER
NO MEIO CORPORATIVO

LIVE 

PARTICIPE PELO GOOGLE MEET
<https://stream.meet.google.com/stream/bb66b5e4-3d45-49d3-a688-d3c22893652f>

Abril
8
DAS 10 ÀS 11:10H

ORADORA
Dra. Graça Machel
Política e activista dos direitos humanos
Primeira Mulher Ministra de Educação e Cultura no Moçambique pós-independente.
Fundadora e Presidente da Fundação para o Desenvolvimento da Comunidade (FDC)
Fundadora do Instituto para o Desenvolvimento da Criança (IZILE) IOI
Fundadora do Instituto de Estudos de Desenvolvimento (INDES)

MODERADORA
ENGI ICLANDA CINTURA SEUANE
Administradora Executiva, EDM

PROGRAMA

HORA	ACTIVIDADE	Responsável
10:00 - 10:10	Abertura do Webinar	Exmo. Senhor PCA, Eng. Marcelino Gálio Alberto
10:10 - 10:50	Empoderamento da Mulher no meio corporativo.	Exma. Senhora Dra. Graça Machel
10:50 - 11:05	Perguntas e Resposta	Todas
11:05 - 11:10	Considerações finais e Encerramento	Exmo. Senhor PCA, Eng. Marcelino Gálio Alberto

Um evento organizado pela
Direcção de Gestão de Recursos Humanos



Unlocking the potential of women

Women's Forum is a network of collaborators working in different sectors and provinces, with the aim of defending women's issues in EDM.

Bring your daughter at work encouraging female children to have a taste for the electrical sector, essentially in the field of engineering.

Gender Roadshows aims to sensitize teenagers to be interested in the exact sciences at secondary school.

Women's Empowerment provide them with skills to carry out their activities and lead

MOZAMBICAN ENERGY TRANSITION STRATEGY

- ❑ With new strategy an investment of 80 B USD is foreseen until 2050
- ❑ Implement renewable energy projects (solar and wind)
- ❑ accelerate renewable energy projects on a larger scale
- ❑ In the first phase 1000MW of PV and Wind projects will be implemented until 2030

“The energy transition is a pathway toward transformation of the global energy sector from fossil-based to zero-carbon by the second half of this century”

PRIORITY PROJECTS

GREEN TRANSMISSION CORRIDORS

- 1. Chimuara – Nacala Phase II & III – MUSD 157**
 - Alto Molocué – Namialo 400kV transmission line & substations
 - Namialo – Nacala – Nampula 220kV transmission line & substations
- 2. Metoro – Montepuez – Marrupa 220kV Transmission Line and Substations – MUSD 80**
- 3. STE Phase II: MUSD 320**
 - Songo – Matambo 400kV transmission line and substations
 - Matambo - Inchope - Vilanculos 400kV transmission line and substations
- 4. Vilanculos – Massinga 110kV Transmission Line & Substations – MUSD 27**
- 5. Inchope - Inhaminga – Dondo 220kV Transmission Line & Substations – MUSD 120**
- 6. Namialo – Metoro 400kV Transmission Line & Substations – MUSD 87**
- 7. Metoro – Palma 400kV Transmission Line & Substations – MUSD 65**

CONCLUSION REMARKS

- ❑ EDM committed to energy transition through ongoing efforts to achieve Universal Access to energy by 2030 and net zero by 2050
- ❑ Mozambique, with its abundant energy resource, can play a huge role on the Regional power generation and transmission interconnection;
- ❑ Mozambique is also committed with Energy Transition and officially launched the Energy Transition Strategy at COP 28 Dubai, with an estimated cost 80BUSD
- ❑ There is a clear opportunities for private investors to play key role in technical assistance, development of power RE projects , including on the electrification (On-Grid and Off-Grid) in Mozambique.

Thank You!