

# COUNTRY FOCUS MOZAMBIQUE

## PRESENTATION FOR AFRICA ENERGY FORUM

NAIROBI, KENYA

21st – 23th June 2023



ELECTRICIDADE DE MOÇAMBIQUE, E.P.

Iluminando a Transformação de Moçambique



# CONTEXTUALIZATION



## **MOZAMBIQUE**

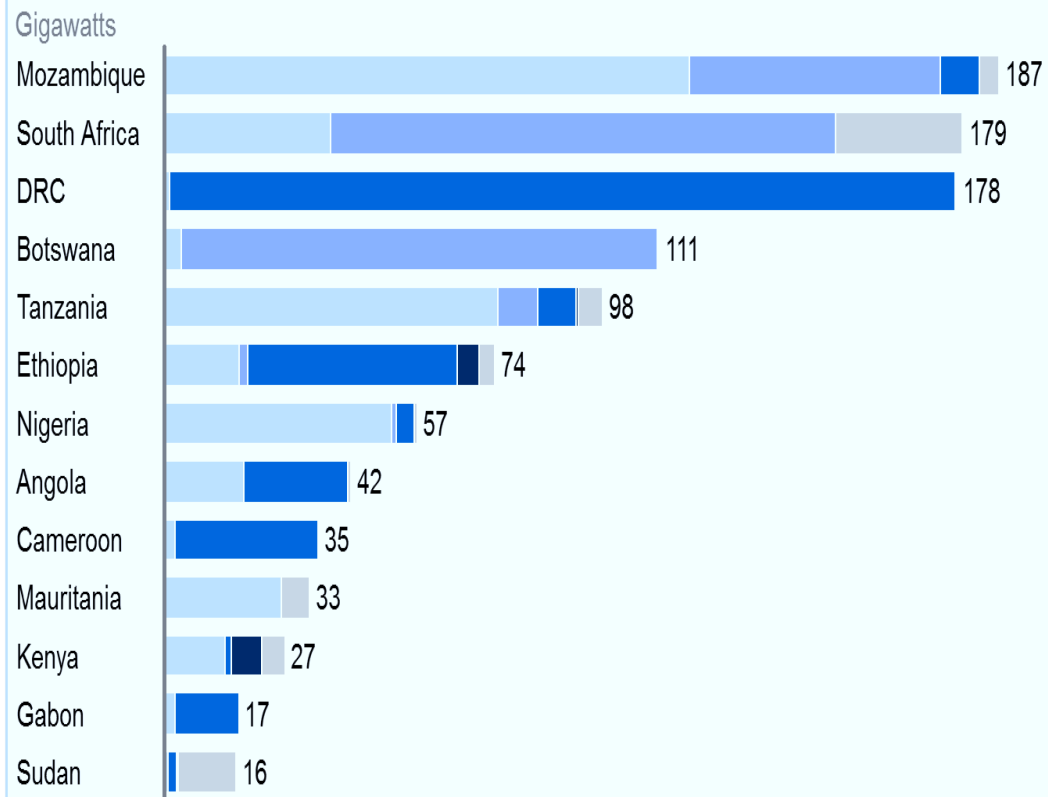
- Area - 800,000 sq.km
- Location - South East of Africa
- Borders - *Six countries: Tanzania, Malawi and Zambia to the north, Zimbabwe to the west, South Africa and Swaziland to the South*
- Population – 32 Millions habitants (2021)
- Access energy rate – 48% (2022)
- Abundant primary energy resources

# 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

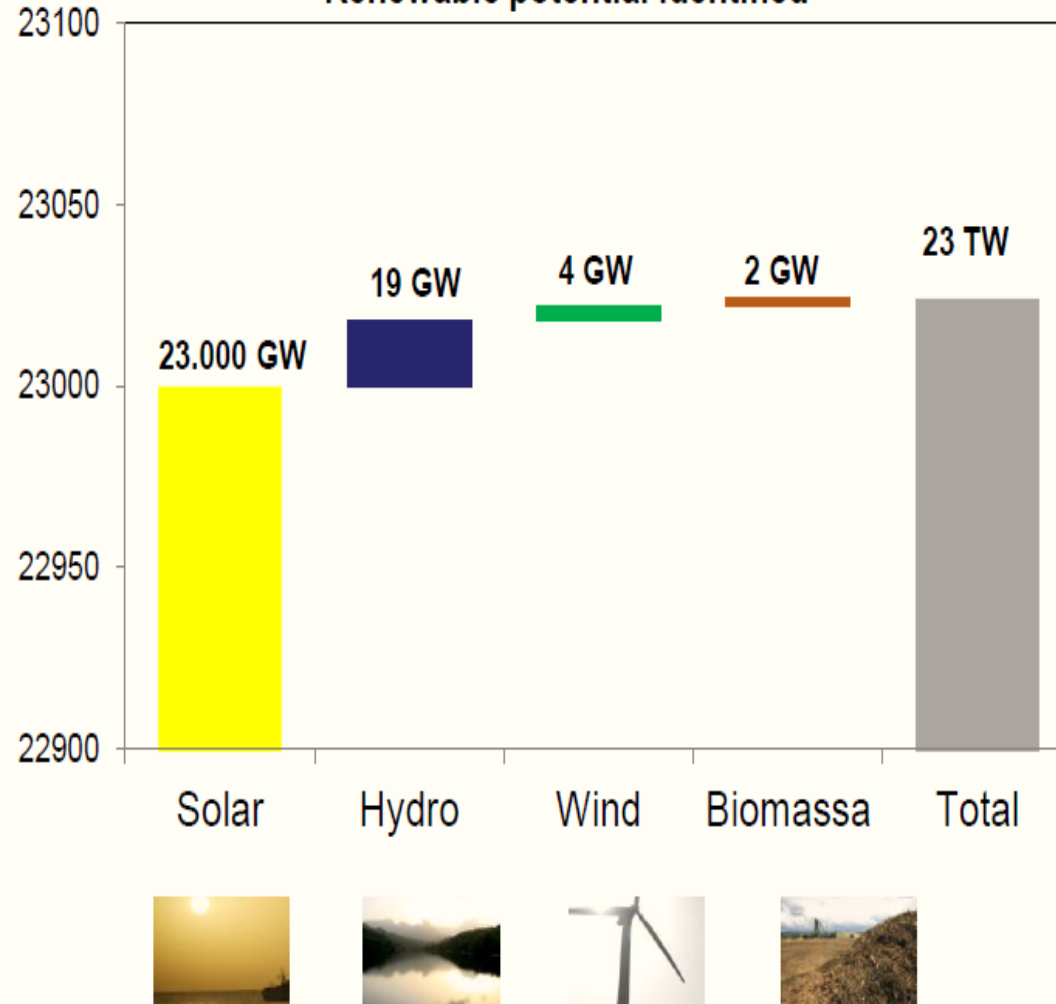
Gas Coal Hydro Geo Wind

Power-generation potential for select Sub-Saharan African countries by technology<sup>1</sup>

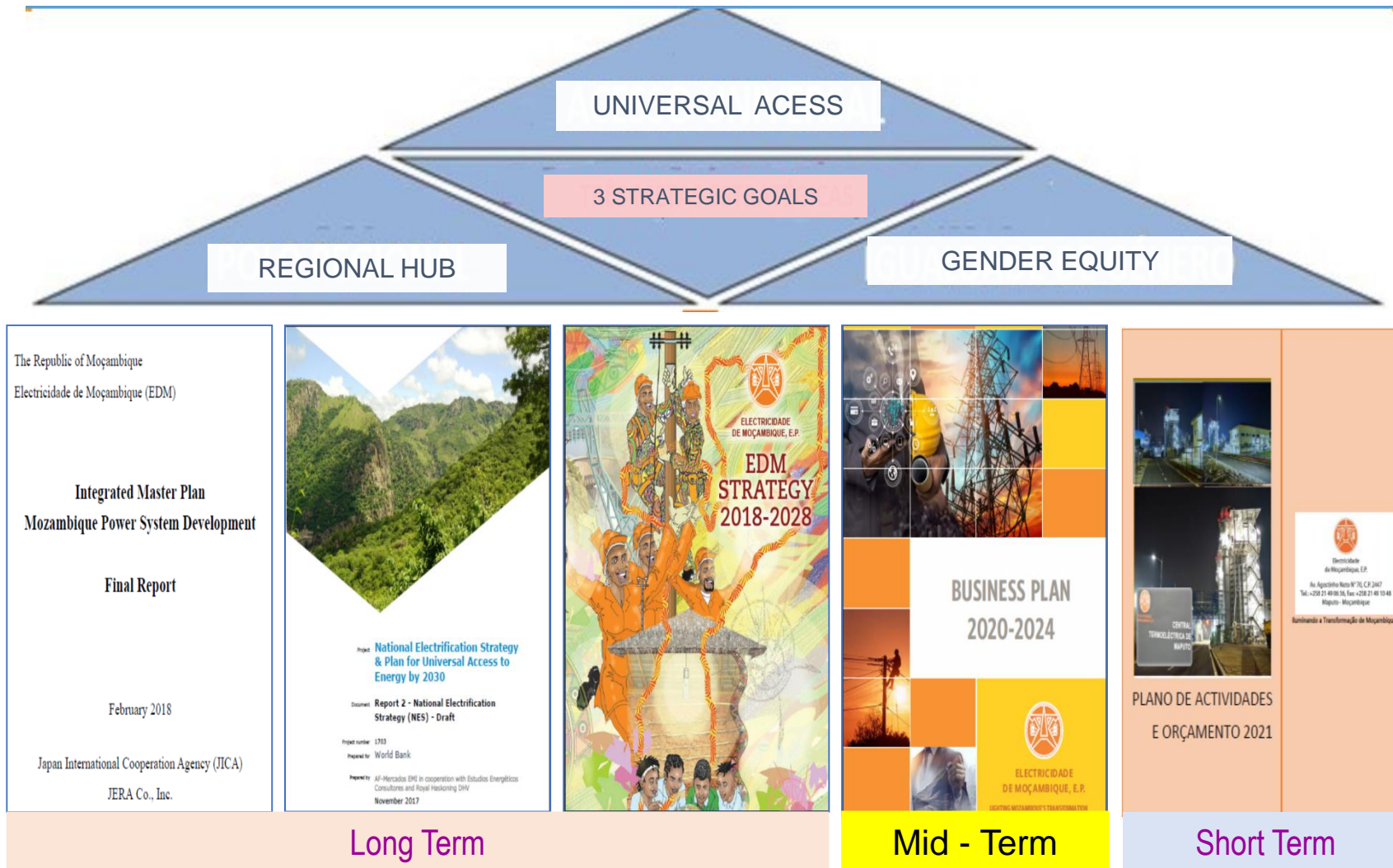


(GW)

Renewable potential identified

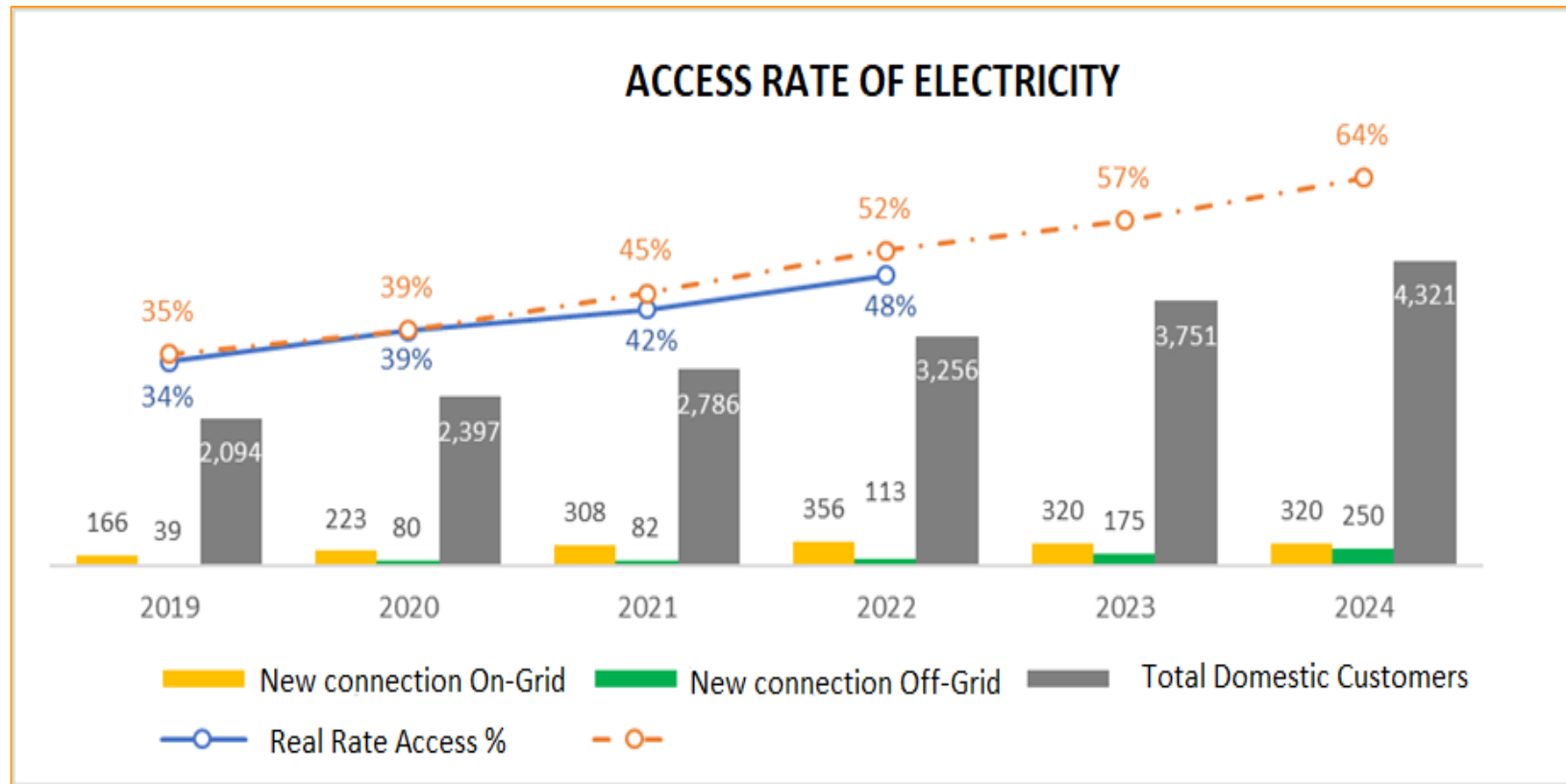


# EDM GUIDING INSTRUMENTS



# EDM PRIORITY 1

## UNIVERSAL ACCESS TO ALL MOZAMBICANS BY 2030



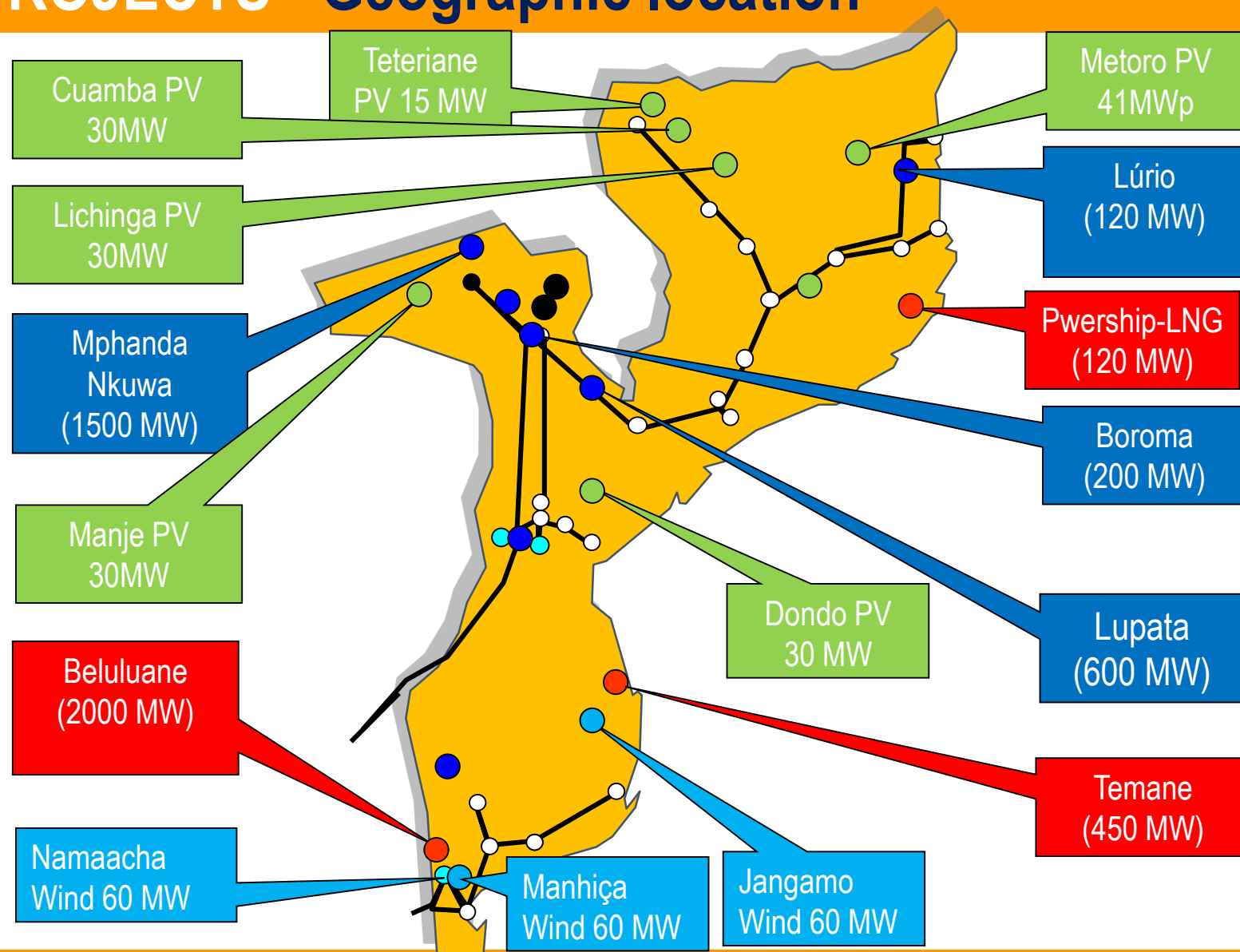
- PROENERGIA PROGRAMME launched by the Government in 2018
- Annual average of new connections from 150 to 300 thousand, corresponding to 5% annual increase
- Renewable Energy is considered in the National Energy Matrix



# EDM PRIORITY 2

## GENERATION PROJECTS - Geographic location

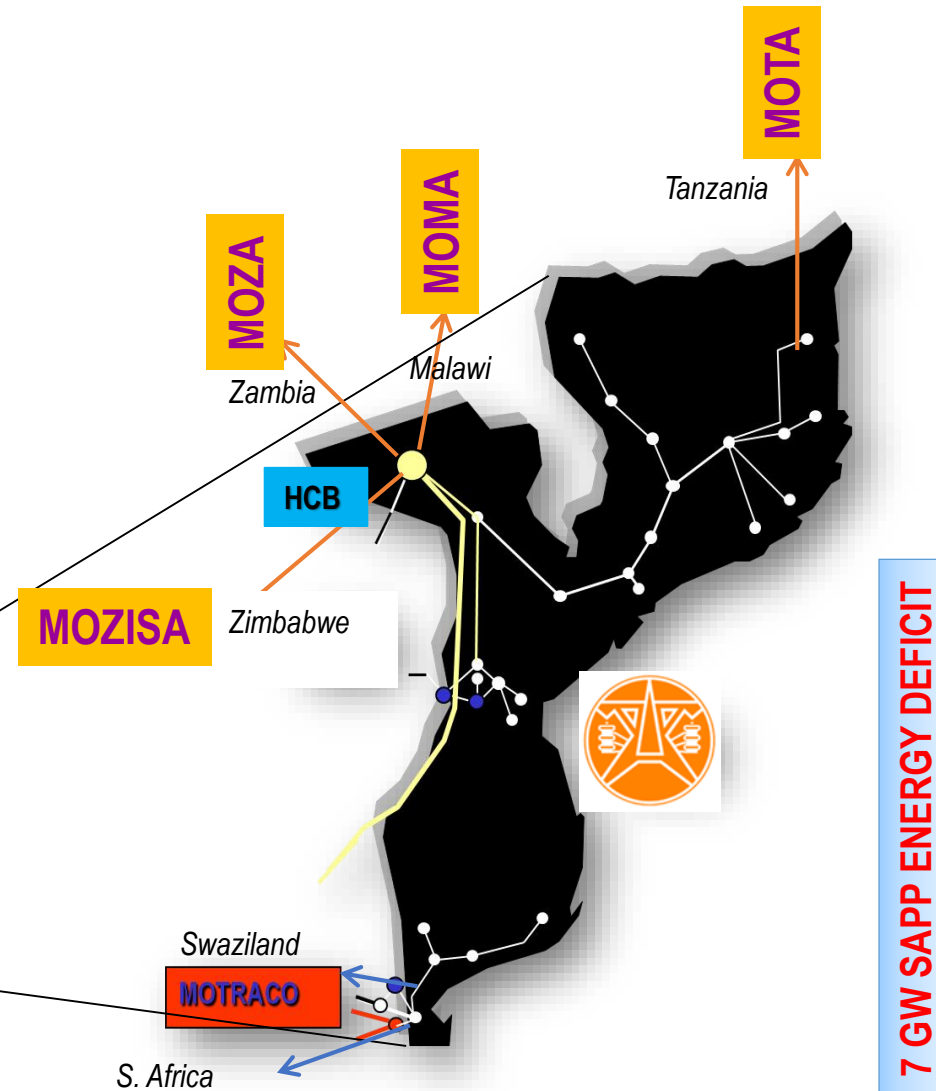
- Hydro
- Solar
- Wind
- Gas



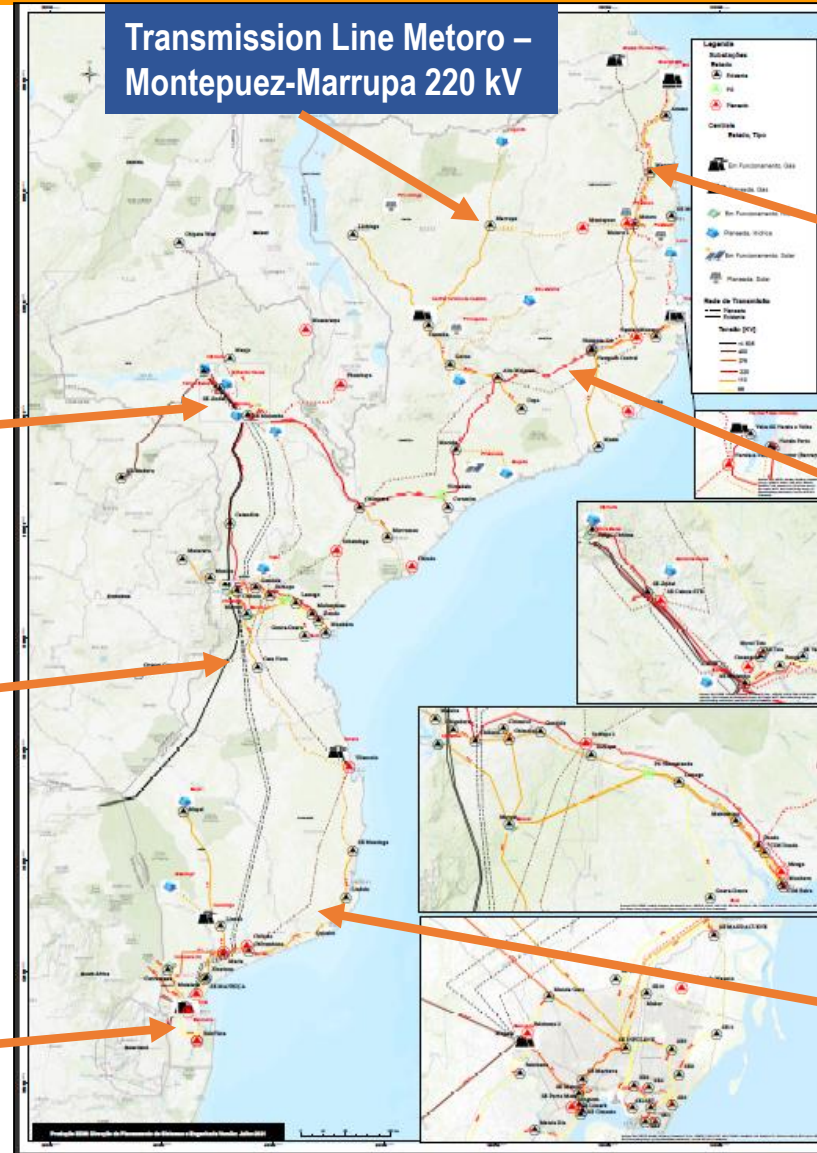
# EDM PRIORITY 2

## 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



# EDM PRIORITY 2 NATIONAL TRANSMISSION PROJECTS



Transmission Line  
Songo – Cataxa - Matambo 400 kV

Transmission Line  
Tete – Maputo ± 535 kV

Transmission Line  
Maputo – Salamanga 400 kV

Transmission Line Metro –  
Montepuez-Marrupa 220 kV

Transmission Line Namialo – Metro - Palma  
400 kV

Transmission Line Chimuara – Nacala 400 kV

Transmission Line Temane – Maputo 400 kV



# EDM PRIORITY 3

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

### *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

EMPODERAMENTO DA MULHER  
NO MEIO CORPORATIVO

LIVE

PARTICIPE PELO GOOGLE MEET  
<https://stream.meet.google.com/stream/bb65b5e4-3d45-49d3-a688-d3c224936a2f>

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-independência  
Fundadora e Presidente da Fundação para o Desenvolvimento da Comunidade (FDC)  
Fundadora do Instituto para o Desenvolvimento da Criança (ZIZILE) IDCI  
Fundadora do Instituto de Estudos de Desenvolvimento (MINDS)

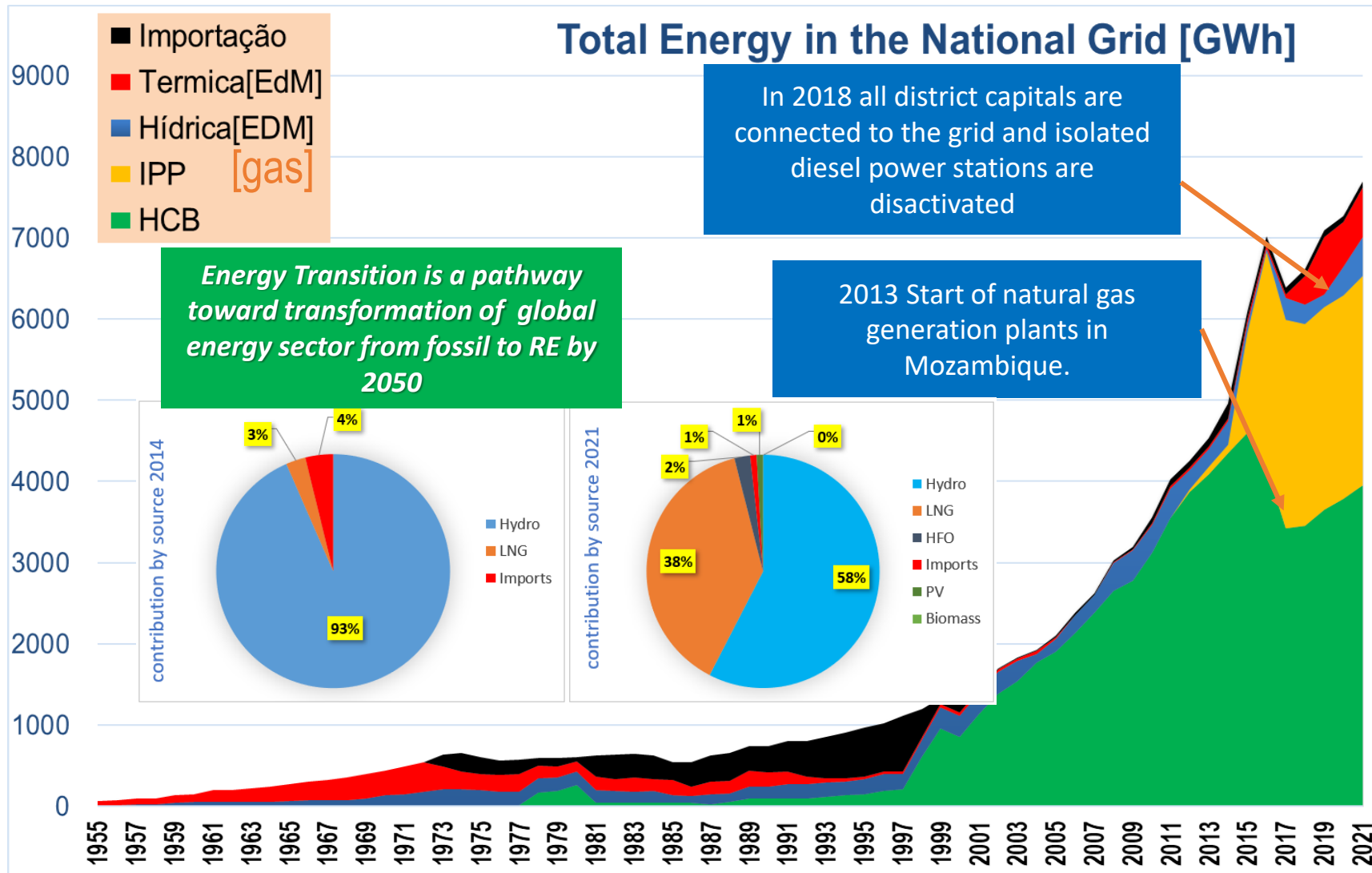
MODERADORA  
ENG<sup>a</sup> IOLANDA CINTURA SEUANE  
Administradora Executiva, EDM

PROGRAMA

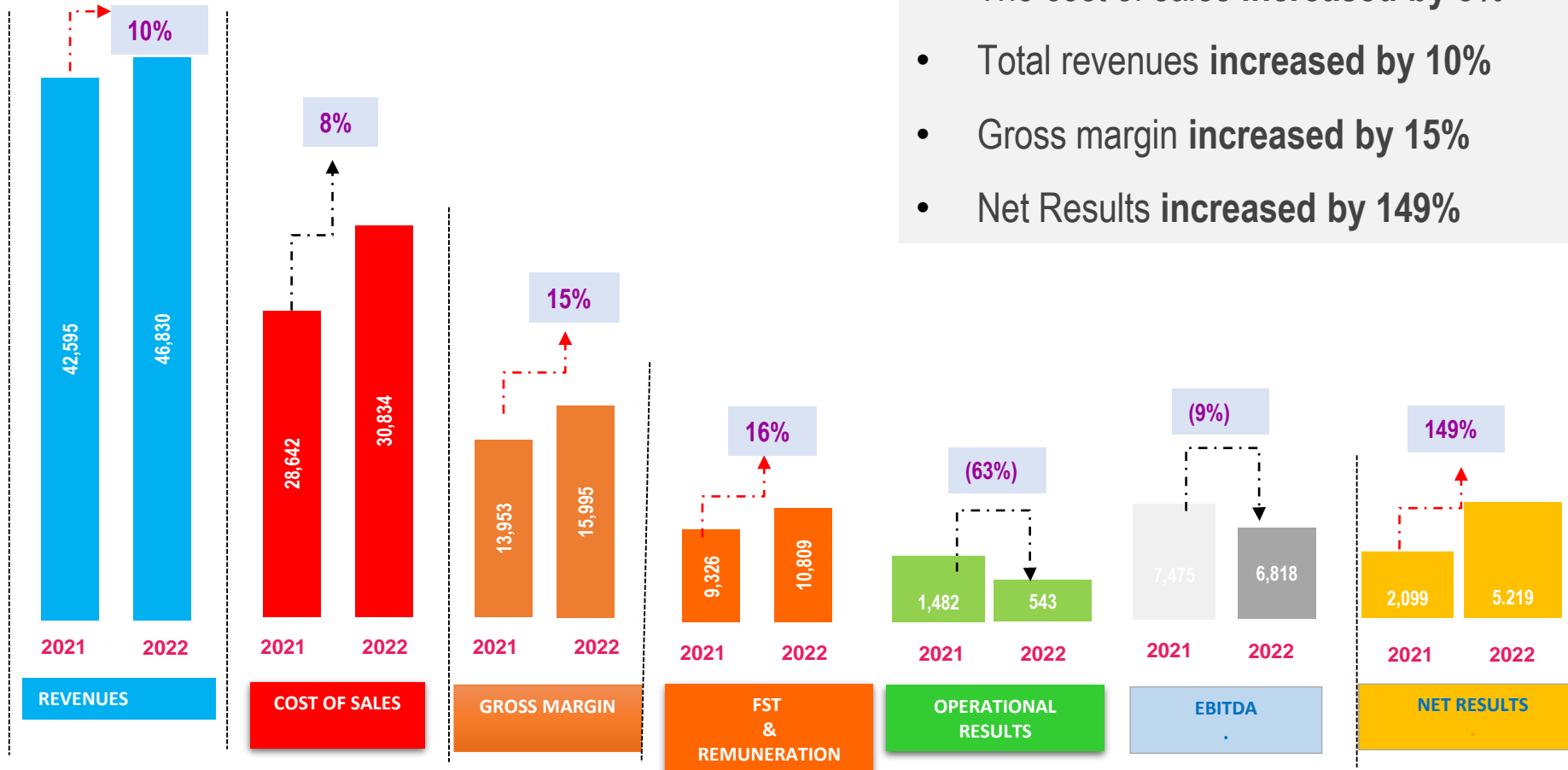
HORA	ACTIVIDADE	Responsável
10:00 - 10:10	Abertura do Webinar	Exmo. Senhor PCA, Eng. Marcelino Gildo Alberto
10:10 - 10:50	Empoderamento da Mulher no meio corporativo.	Exma. Senhora Dra. Graça Machel
10:50 - 11:05	Perguntas e Resposta	Todos
11:05 - 11:10	Considerações finais e Encerramento	Exmo. Senhor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

Um evento organizado pela  
Direcção de Gestão de Recursos Humanos

# TRANSITION ENERGY



# EDM PERFORMANCE – FINANCE STATEMENT “MMZN”



- The cost of energy represents **66% of the total revenues**
- The cost of sales **increased by 8%**
- Total revenues **increased by 10%**
- Gross margin **increased by 15%**
- Net Results **increased by 149%**

# PRIORITY PROJECTS

## GENERATION PROJECTS STATUS

1. Tsate Hydro Power Plant, 50MW – Cost Estimate **MUSD 250** (ESIA Ongoing, FS Done);
2. Mavuzi II Hydro Power Plant, 37MW – FS and ESIA Ongoing;
3. Mugeba Hydro Power Plant, 150MW – Concept Stage;
4. Alto Malema Hydro Power Plant, 60MW – Concept Stage;
5. Lurio Hydro Power Plant, 120MW – Concept Stage;

# 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

1. Mozambique is committed with SDG by 2030:
  - Universal Access of Energy with clean and affordable energy;
  - Gender Equality;
  - Climate Change;
2. Mozambique, with its abundant energy resource, can play a huge role on the Regional power generation and transmission interconnection;
3. Mozambique is also committed with Energy Transition, however is important to consider the existing resources and the gas is playing important role (gas to power) as the bridge fuel;
4. There is a clear opportunities for private investors to play key role in technical assistance, development of power projects, including on the electrification (On-Grid and Off-Grid) in Mozambique.

# ASANTE