



# National Control Center Project (NCC)

Matalane – CTM – Chibata - Nampula



# Background

The GoM has secured grant funds from the Swedish Government 170.000.000,00 SEK, AfDB 12.200.000,00 UA, the German Government through KfW 15.000.000,00 EUR and the EU 16.618.000,00 EUR.

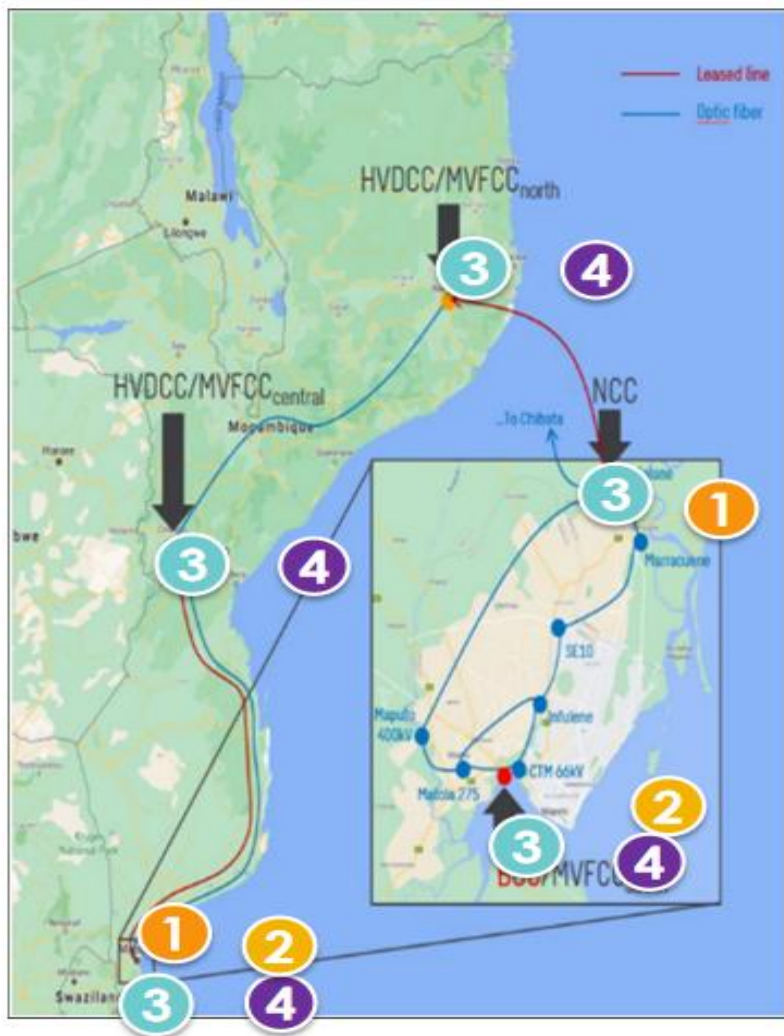
An extensive development of electricity demand, generation and interconnection is foreseen in Mozambique for the coming years. In order to meet this growing development and have a manageable, secure, and efficient operation of the electrical grid, a key prerequisite is to be able to monitor and control the full network.

Mozambique's power supply network is currently comprised of two separate and isolated transmission systems:

- Central Northern system – This system consists of the central, central - north and north areas. This system is fed by Cahora Bassa HPP (2,075 MW), as well as by other smaller plants such as Chicamba and Mavuzi HPPs (38MW and 52MW, respectively) and a PV, 30MW in Mocuba.
- Southern system – this system is strongly interconnected and fed by the South Africa grid via 110 kV and 275 kV lines from Komatipoort and through a 400 kV line from Camden and Marathon through Maputo substation. The grid is also fed by a 16 MW hydropower plant at Corumana, the new Maputo Combined Cycle Thermal Power Plant (CTM, 106 MW), inaugurated in 2018, Ressano Garcia (270 MW) and Kuvaninga (40MW) in Gaza Province. These two systems are currently synchronized by a continuous AC link through Zimbabwe and South Africa.



# The National Control Centre (NCC)



1

**CENTRO NACIONAL DE DESPACHO  
NCC  
MATALANE**

2

**CENTRO NACIONAL DE DESPACHO  
BACKUP - BCC  
CTM**

3

**CENTROS REGIONAIS  
HVCC  
CTM, CHIBATA and NAMPULA**

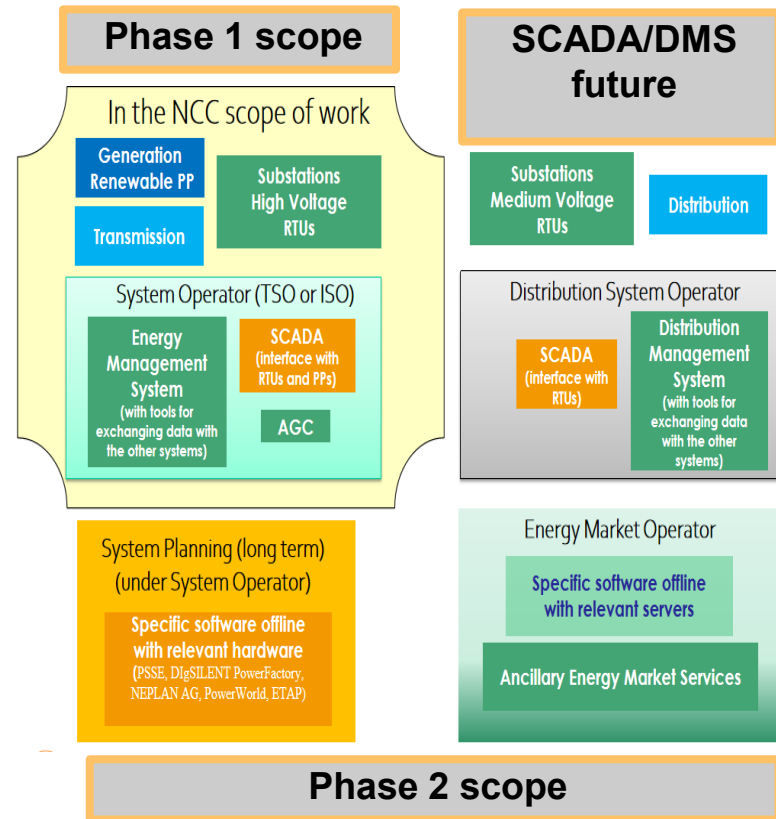
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**CENTROS REGIONAIS  
MVCC  
CTM, CHIBATA and NAMPULA**



# The National Control Centre (NCC)

- **The National Control Centre (NCC)** in Maputo - Matalane, fitted with a data center, in a new building.
- **The Backup Control Centre (BCC)** in Maputo - CTM fitted with a data center that shall function as a Backup to the NCC as well as **the Southern Regional Control Center** with a Medium Voltage Feeder Control Centre for the south area.
- **The Central Regional Control Center** in Chibata with Medium Voltage Feeders Control Centre (MVFCC) for the Central region, combined with High Voltage Data Collection Centre (HVDCC).
- **The Northern Regional Control Center** with Medium Voltage Feeders Control Centre (MVFCC) for the Northern region, combined with High Voltage Data Collection Centre (HVDCC).



## Systems:

SCADA/EMS platform, Telecommunications infrastructure and Integration of existing substations.



# The National Control Centre : Phase 1 - System Operator

## Mozambique Power Sector Context

- Rapid growth in electricity demand
- Integration of renewable energy sources
- Participation in Southern African Power Pool (SAPP)
- Implementation of Electricity Law No. 12/2022
- Need for modern system operation infrastructure

## Regulatory Framework, Electricity Law No.12/2022 (Article 7):

- System Operator
- Market Operator
- System Planning Function
- Must operate as independent functions supported by a modern dispatch center.

## National Control Center Project

The objective is to establish a modern and resilient dispatch infrastructure capable of:

- Real-time monitoring and control
- Renewable energy integration
- Regional power trading
- Reliable system operation



# The National Control Centre : Phase 1 - System Operator

## Project Components

- National Control Center – Matalane
- Regional Control Center - South & Backup Control Center – CTM
- Regional Control Center - Central – Chibata
- Regional Control Center - North – Nampula

## Systems:

- SCADA/EMS platform, Telecommunications infrastructure and Integration of existing substations.

## Current Financing (Grant) – Phase 1

The current Financing Partners are:

- KfW
- European Union
- SIDA
- African Development Bank

## Implementation Status

Project under procurement stage: launched the key lots:

**Lot 1** - Construction of buildings at Matalane, CTM, Chibata and Nampula.

**Lot 2** - SCADA/EMS systems, Telecommunications infrastructure and Substation adaptation works

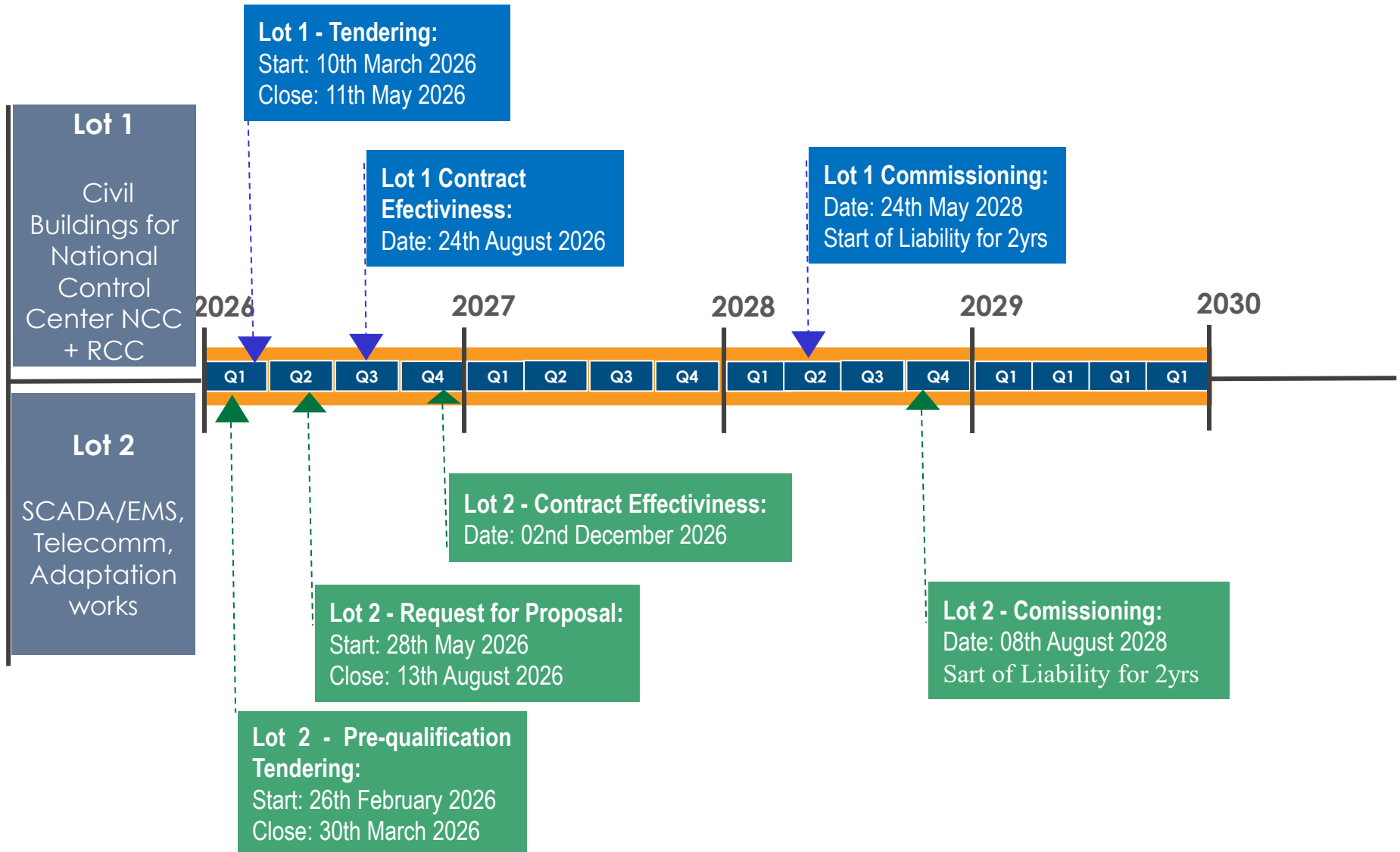
## Construction schedule:

**Start:** Q3 - 2026

**Commissioning:** Q4 - 2028



# The National Control Centre : Phase 1 - System Operator - implementation timeline



# The National Control Centre : Phase 2 – Grid Code Compliance (Market Operator & System Planning)

## Funding Gap for Phase 2

Due to limited financing, some strategic components were postponed:

- *Market Operator facilities*
- *System Planning facilities*

## Why Phase 2 is Critical

The implementation of Phase 2 will enable:

- Independent electricity market operation
- Improved system planning capability
- Improved Integration of renewable generation
- Stronger regional power trading (SAPP)

## Strategic Impact

- Strengthen national grid reliability
- Enable transparent electricity market
- Support renewable energy integration
- Facilitate regional electricity trade

## Investment Opportunity

Key investments required the following:

- Construction of Market Operator facilities
- Construction of System Planning facilities
- Market management software
- Planning and forecasting tools
- Capacity building on ISO system



# The National Control Centre : Phase 2 – Grid Code Compliance (Market Operator & System Planning)

## Funding Gap for Phase 2 of the project

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- System Planning facilities

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# CALL FOR PARTNERSHIP

Electricidade de Moçambique, E.P. invites development partners to support **Phase 2 of the National Dispatch Center project.**

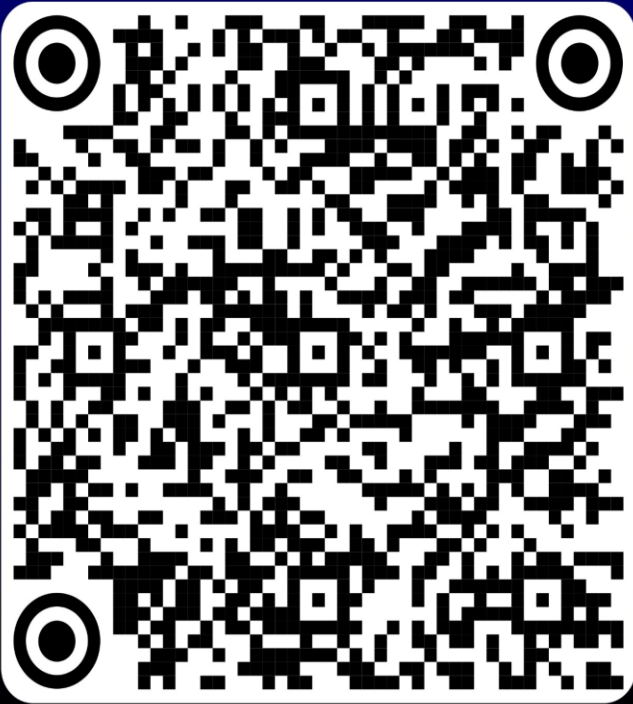
This investment will support Mozambique's energy sector reform and strengthen regional energy integration.

**The implementation of the phase 2 of the National Control Center project has an estimation of 12 MUSD.**

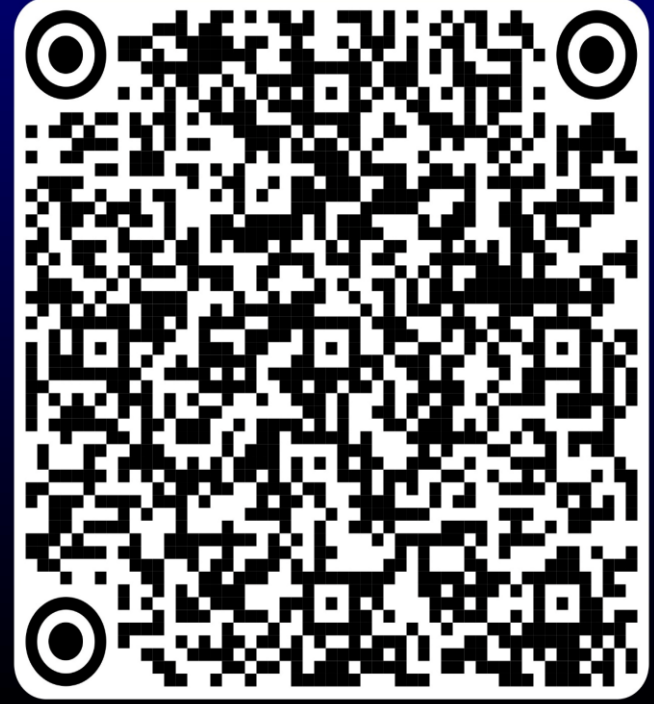


Interested are encouraged to scan the QR code below for the tender documents

**Lot 1**



**Lot 2 PQ**





ELECTRICIDADE  
DE MOÇAMBIQUE, E.P.

# Thank You!

Matalane – CTM – Chibata - Nampula  
*National Control Center Project*