

# Mphanda Nkuwa Hydropower and Mozambique Regional Transmission Backbone Project

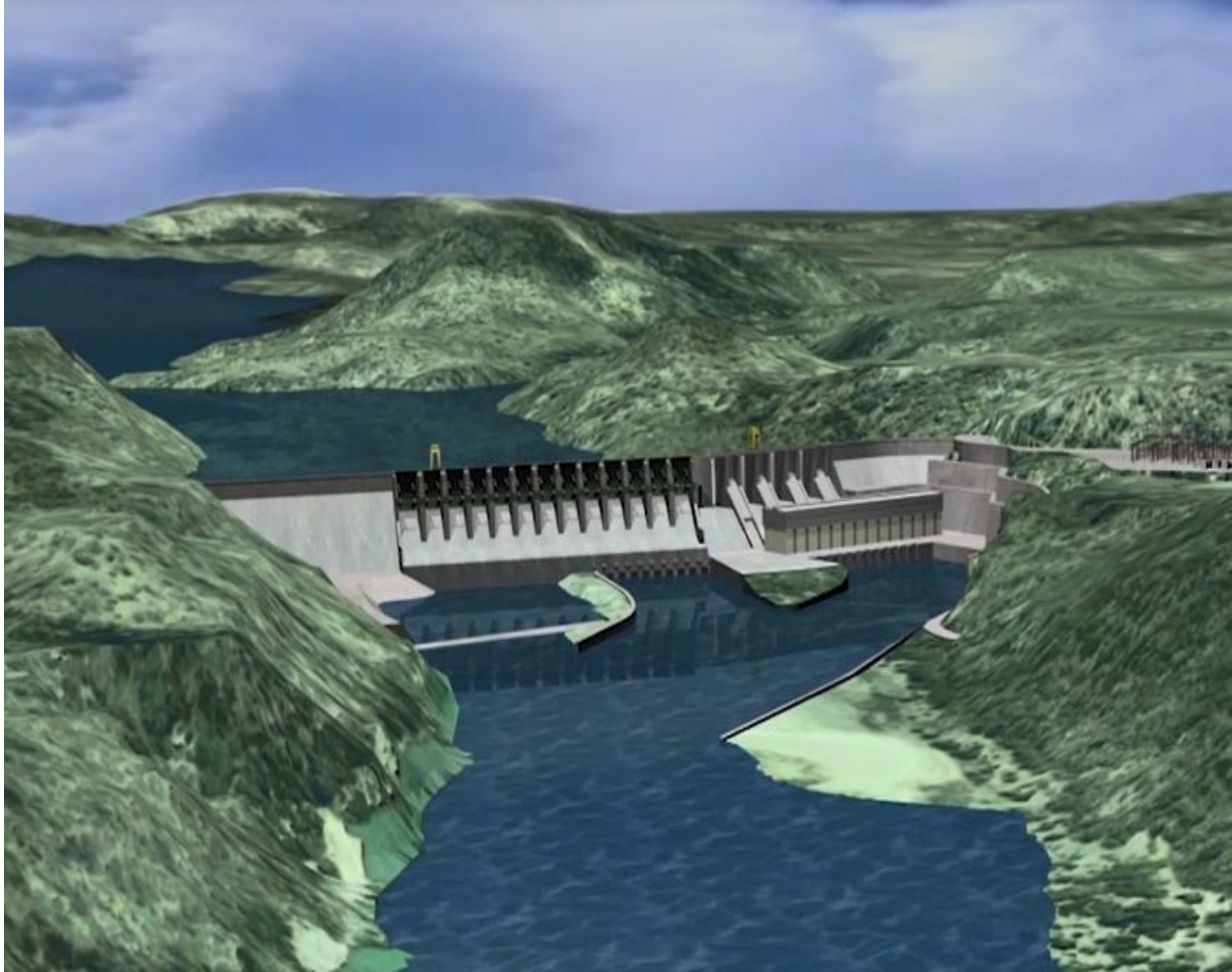
*11 June 2026*

# TABLE OF CONTENTS



01

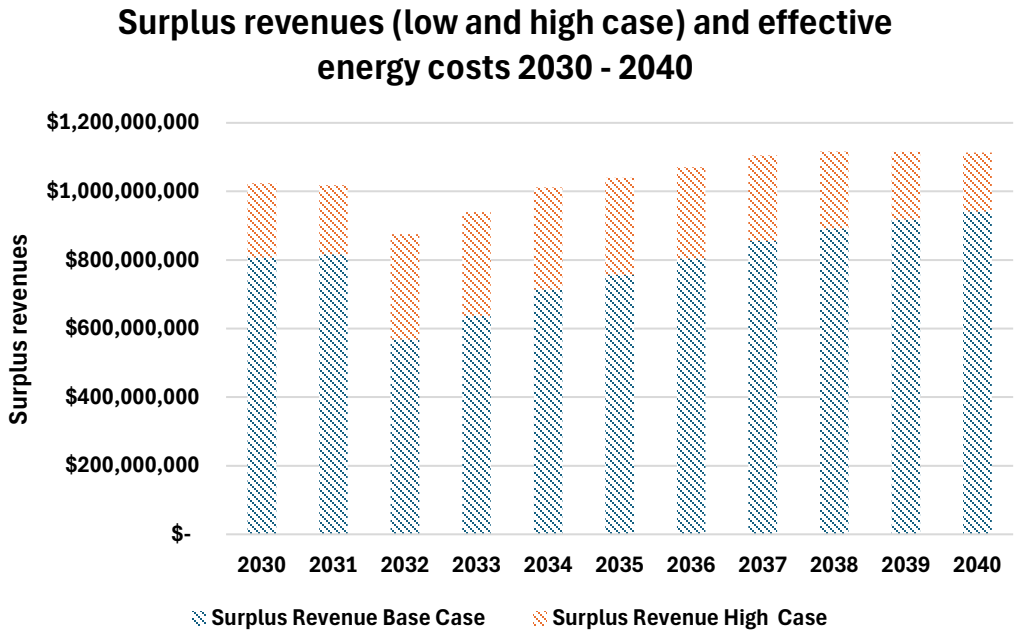
# Country and Sector Overview



# There exists a unique opportunity to establish the energy sector as driver of economic development and financial stability in Mozambique

## Unique Opportunity

By 2033, Mozambique could generate electricity worth around **$3 billion annually at a cost of roughly $2 billion**, creating a potential **$1 billion surplus** that can be captured for the good of all Mozambicans in different ways...




- Establishing **the energy sector** as a driver of **increased government revenues.**
- Supporting **sector liquidity and bankability,** contributing to long-term **financial sustainability**
- Ensuring competitive power **to drive national development goals**

# SECTORIAL STRATEGIC FRAMEWORK

- SECURITY OF SUPPLY
- ENERGY MIX
- COMPETIVENESS

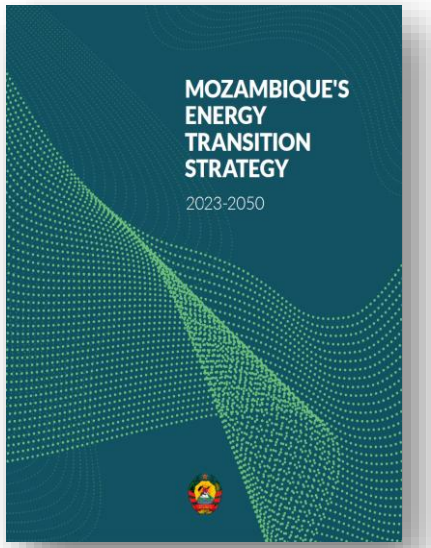
POLICY

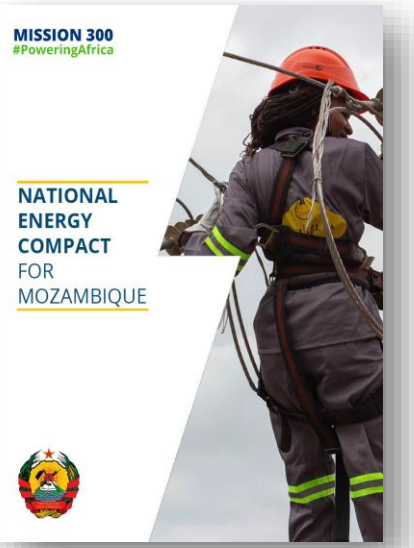
- UNIVERSAL ACCESS BY 2030
- REGIONAL ENERGY HUB
- COST OF SUPPLY

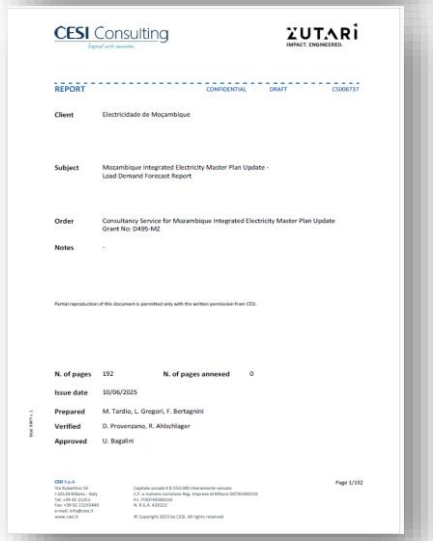
STRATEGY

- LEAST COST OPTION (Infrastructure and energy)
- DOMÉSTIC AND INDUSTRIAL CONSUMPTION
- EXPORT

PLANNING



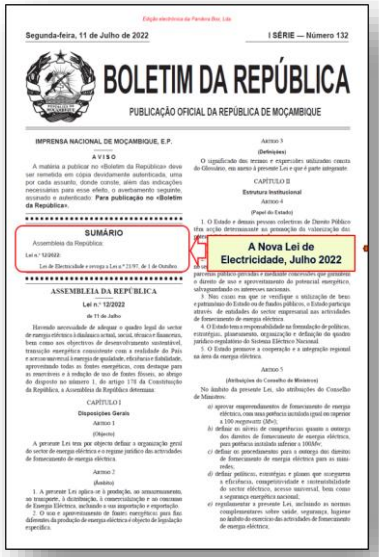




**IMPLEMENTATION OF STRATEGIC REFORMS IN THE ELCTRICITY SECTOR**

- Adopt a **new strategic approach to electricity trading**
- Establish an **economic regulatory framework** to ensure that the benefits of the country's energy wealth are retained in Mozambique
- Adopt a **process to ensure the implementation of the investment master plan** based on the lowest cost criterion.
- Create the **National Electricity System Manager (GSEN)**, operationalise the functions of **System Operator and Market Operator**, and promote **efficient planning**

# The Electricity Act presents an opportunity for a paradigm shift in the sector


Segunda-feira, 11 de Julho de 2022 — I SÉRIE — Número 132

BOLETIM DA REPÚBLICA

PUBLICAÇÃO OFICIAL DA REPÚBLICA DE MOÇAMBIQUE

IMPRENSA NACIONAL DE MOÇAMBIQUE, E.P.

AVISO

SUMÁRIO

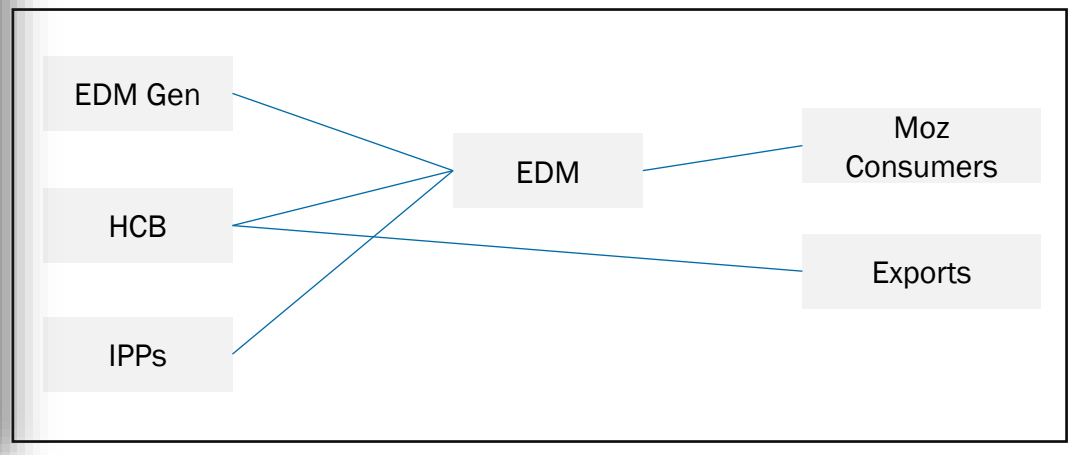
A Nova Lei de Electricidade, Julho 2022

ASSEMBLEIA DA REPÚBLICA

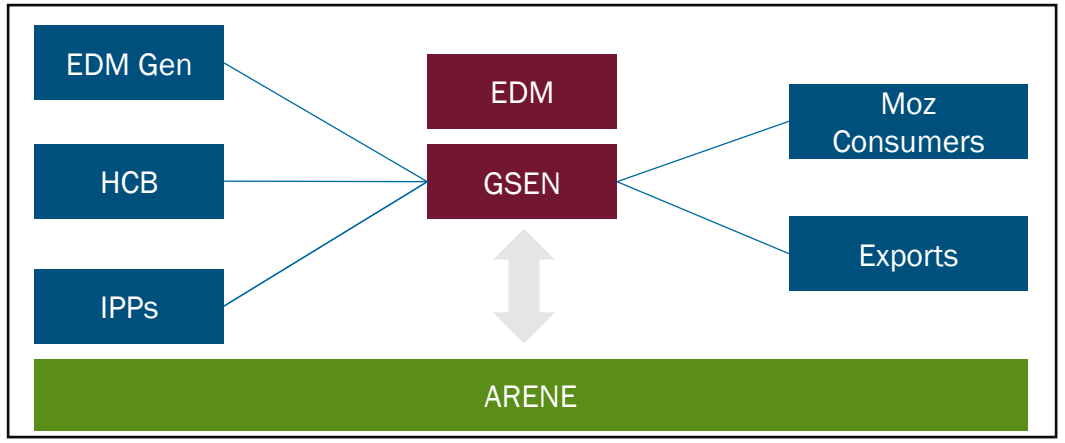
Lei n.º 12/2022

de 11 de Julho

**Today: Transactional process with actors looking out for their own interests**




**Future: More integrated and strategic approach**




| | | |
|---|---|---|
| **Power sale** | • **Exporting power at $1/2 Bn less than its value**<br>• domestic **energy prices impeded industrial development** | • Seize around **$1 Bn in value** from its energy assets as government revenue or to reduce tariffs (e.g. for industry) |
| **Investment Risk** | • The **lack of sector liquidity presents significant risk to investors** | • **Centralised cashflows** ensuring all sector actors get **contracted revenues, driving efficiencies and de-risking investment** |
| **Least cost investment** | • **The ad-hoc & transactional approach to investment** is inefficient and risks inflating energy costs | • **Programmatic, competitive approach to investment** in line with the masterplan delivering the right investments at the right price |
| **System/ market operation** | • A **lack of institutional capacity in key system and market operation functions** presents risk to investors and consumers | • **Enhanced Capacity** through the establishment of the **GSEN** |
| **Donor alignment** | • Support of **donors and international partners is often misaligned, or inefficient** | • Clarity on the **direction of the sector** and **a roadmap to align international partners** around the national vision |

# SECTORIAL ROAD MAP TO ECONOMIC DEVELOPMENT

1100 MW
(2030)

Installed Cap. - 2075 MW

HIDROELÉCTRICA DE CAHORA BASSA

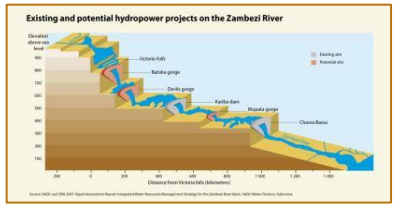
Reversão - 1100 MW

+

AphandaNkuwa Hidroeléctrica

(Installed Cap. 1 500 MW)

3500 MW




Cascade Operation

**GSEN**
**System and Market Operator**
(Security, reliability and economic regulation)

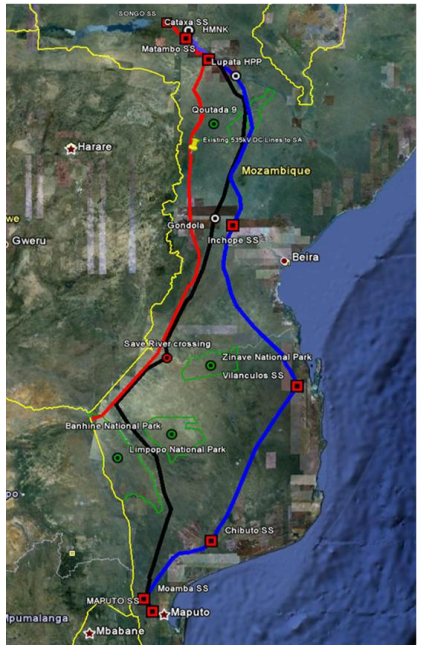
**Strategic Assets**
(HCB, CTT, MNK and CBN

**Return of HCB Power (value) under Sovereign control in 2030**

**Indexation to Market Prices and US$ Currency**

**Cascade Operation (Hydrology Optimization)**

5000 MW




- SECURITY OF SUPPLY
- ELECTRIFICATION
- INDUSTRIALIZATION
- EXPORT
- INFRAESTRUCTURE (TX)

**LONG TERM EMPLOYMENT AND BROADER TAX BASE**



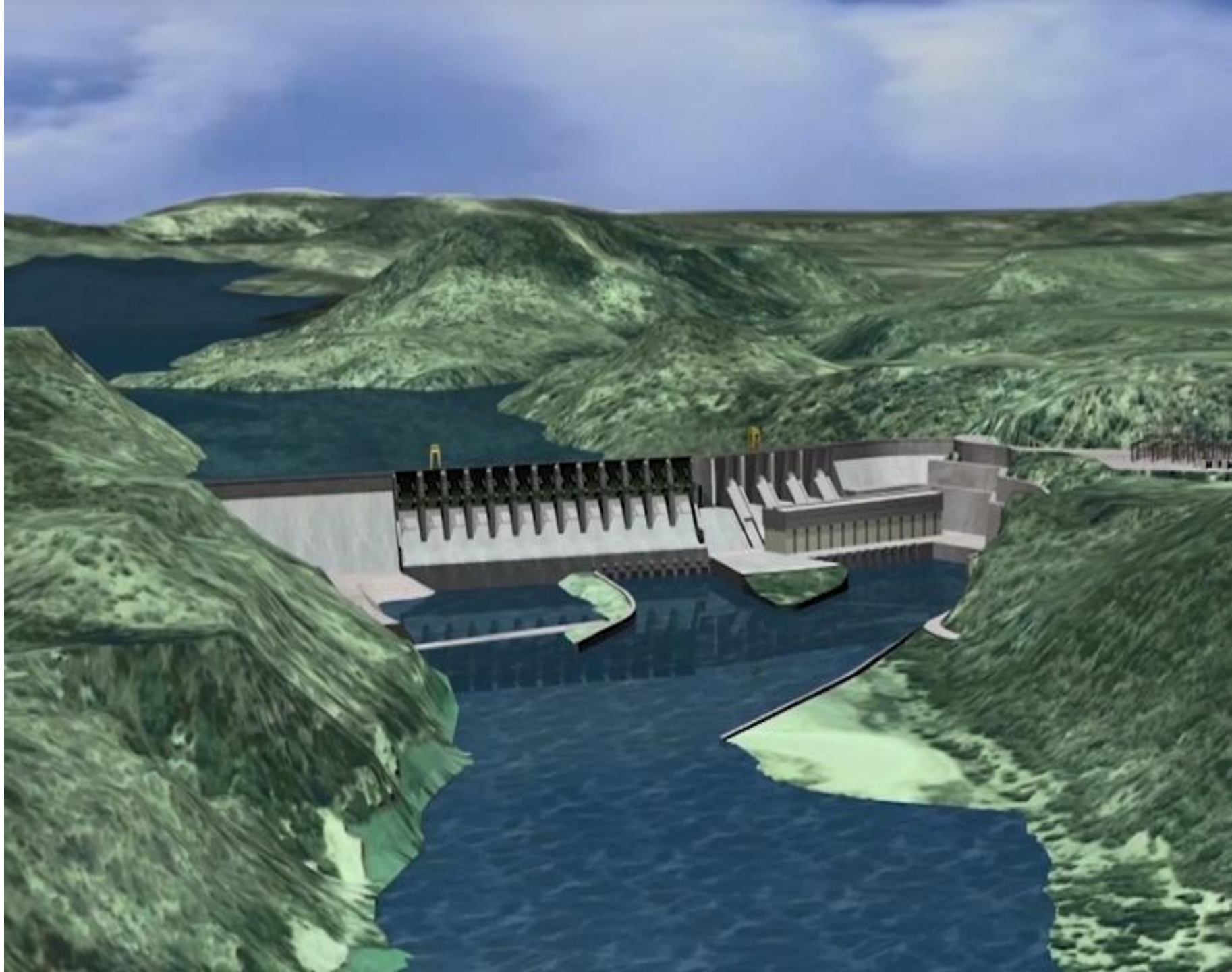

AphandaNkuwa Hidroeléctrica

# ENERGY SECTOR OVERVIEW I GREEN INDUSTRIALIZATION


| Raw Material | First Steps of Processing | Products (first phase) | Example products (next phase) |
|---|---|---|---|
| Graphite | Mining and crushing to obtain graphite flakes | Purified graphite flakes | Spherical graphite, battery-grade graphite (used in EV batteries) |
| Zirconium | Mining and separation from heavy mineral sands | Zirconium tetrachloride, zirconium metal | Zirconium alloys, used in nuclear reactors and certain electronics |
| Beryllium | Mining and crushing to produce beryllium ore | Beryllium hydroxide or beryllium metal | Beryllium alloys, used in aerospace, electronics, and defence industries |
| Titanium | Mining and separation from heavy mineral sands | Titanium tetrachloride, titanium sponge | Titanium alloys, used in aerospace, medical devices, and high-performance components |
| Iron Ore | Mining and crushing to produce iron ore fines or pellets | Pig iron | Steel (used in construction, automotive industry including EVs) |
| Bauxite | Mining and crushing to produce bauxite ore | Alumina (aluminium oxide) | Aluminium (used in lightweight vehicle parts, electronics, renewable energy components) |
| Silica sands | Mining & purification via magnetic separation, flotation, acid leaching, calcination | Medium- to high-purity silica | Glass, solar panels, optical fibre, silicon wafers for semiconductors |
| Lithium (from Zimbabwe) | Mining (spodumene) or extraction from brine | Lithium carbonate | Lithium hydroxide, battery-grade lithium compounds (used in EV batteries) |


02

# Mphanda Nkuwa – Project Overview



# PROJECT OVERVIEW – GENERATION AND TRANSMISSION PROJECT

## Generation Projects



Electricity Generated

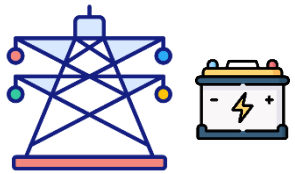
Generation Projects

Site substations

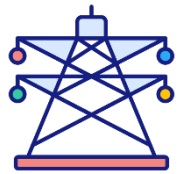
Delivery Points

Different generation projects like MNK are under development or construction

## Transmission Project



Interconnection substation(s)



HVAC line (multiple segments)

Increased Local and Regional Connectivity

Transmission backbone needs to be built in order to evacuate the power generated by the generation projects

# MPHANDA NKUWA HYDROPOWER & REGIONAL TRANSMISSION BACKBONE

## PROJECT COMPONENTS

- **GENERATION:**
  - ~1,500 MW Mphanda Nkuwa hydropower project on the Zambezi River, Mozambique.
- **TRANSMISSION:**
  - Publicly owned Mozambique Regional Transmission Backbone connecting Central, Northern and Southern Mozambique to Maputo and the SAPP.
- **DELIVERY MODEL**
  - Generation developed under a BOT concession with long-term PPA and Securitization.
  - Transmission delivered through sovereign-backed, DFI-financed public infrastructure.
- **TIMING**
  - MNK Financial Close targeted H2 2028; commissioning by 2033.
  - Transmission backbone development underway (Green Corridors) and aligned to be ahead, at least 12 months, of MNK commissioning.
- **Regional context**
  - Integrates large-scale renewable baseload into the Southern African Power Pool.
  - Enables coordinated operation with Cahora Bassa, strengthening regional system reliability.


# SELECTION OF THE STRATEGIC PARTNER, JDA AND CONCESSION CONTRACT

PEDIDO DE MANIFESTAÇÃO DE INTERESSE → AVALIAÇÃO DAS PROPOSTAS DE PRÉ - QUALIFICAÇÃO → PEDIDO DE PROPOSTA → AVALIAÇÃO DAS PROPOSTAS DE CONCURSO → EXECUÇÃO DO ACORDO DE IMPLEMENTAÇÃO

2022 – 2023

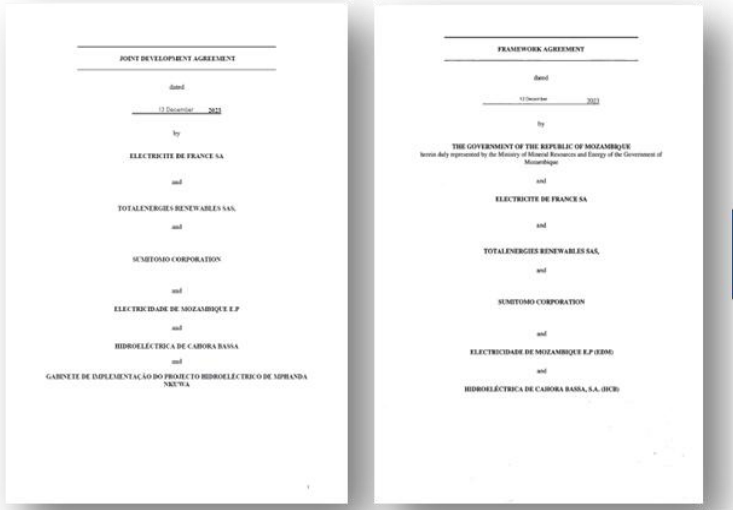
Concorrentes

Concorrentes Pré-qualificados (lista curta)

Concorrentes

Concorrentes

Parceiro Estratégico


JOINT DEVELOPMENT AGREEMENT

dated

12 December 2023

by

ELECTRICITE DE FRANCE SA

and

TOTALENERGIES RENEWABLES SAS,

and

SUMITOMO CORPORATION

and

ELECTRICIDADE DE MOZAMBIQUE E.P

and

HIDROELÉCTRICA DE CAHORA BASSA

and

GABINETE DE IMPLEMENTAÇÃO DO PROJECTO HIDROELÉCTRICO DE MPHANDA NKUWA

FRAMEWORK AGREEMENT

dated

12 December 2023

by

THE GOVERNMENT OF THE REPUBLIC OF MOZAMBIQUE

and

ELECTRICITE DE FRANCE SA

and

TOTALENERGIES RENEWABLES SAS,

and

SUMITOMO CORPORATION

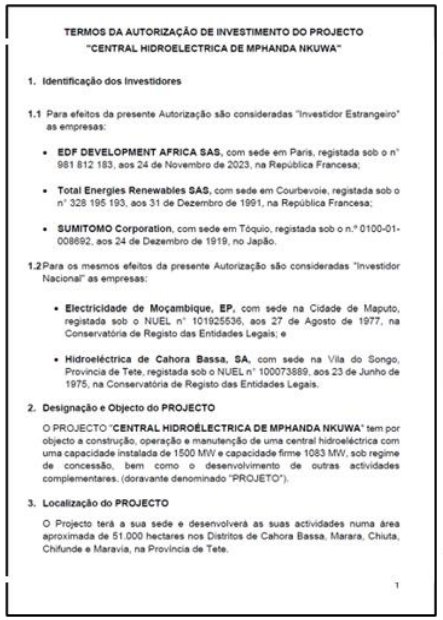
and

ELECTRICIDADE DE MOZAMBIQUE E.P (EDM)

and

HIDROELÉCTRICA DE CAHORA BASSA, S.A. (HCB)

Join Development Agreement and FrameWork Agreement 2023 - 2024


TERMOS DA AUTORIZAÇÃO DE INVESTIMENTO DO PROJECTO "CENTRAL HIDROELECTRICA DE MPHANDA NKUWA"

1. Identificação dos Investidores

1.1 Para efeitos da presente Autorização são consideradas "Investidor Estrangeiro" as empresas:

- **EDF DEVELOPMENT AFRICA SAS**, com sede em Paris, registada sob o nº 981 812 183, aos 24 de Novembro de 2023, na República Francesa;
- **Total Energies Renewables SAS**, com sede em Courbevoie, registada sob o nº 328 195 193, aos 31 de Dezembro de 1991, na República Francesa;
- **SUMITOMO Corporation**, com sede em Tóquio, registada sob o nº 0100-01-008892, aos 24 de Dezembro de 1919, no Japão.

1.2 Para os mesmos efeitos da presente Autorização são consideradas "Investidor Nacional" as empresas:

- **Electricidade de Moçambique, EP**, com sede na Cidade de Maputo, registada sob o NUEL nº 101925536, aos 27 de Agosto de 1977, na Conservatória de Registo das Entidades Legais; e
- **Hidroeléctrica de Cahora Bassa, SA**, com sede na Vila do Songo, Província de Tete, registada sob o NUEL nº 100073889, aos 23 de Junho de 1975, na Conservatória de Registo das Entidades Legais.

2. Designação e Objecto do PROJECTO

O PROJECTO "**CENTRAL HIDROELECTRICA DE MPHANDA NKUWA**" tem por objecto a construção, operação e manutenção de uma central hidroeléctrica com uma capacidade instalada de 1500 MW e capacidade firme 1083 MW, sob regime de concessão, bem como o desenvolvimento de outras actividades complementares. (doravante denominado "PROJETO").

3. Localização do PROJECTO

O Projecto terá a sua sede e desenvolverá as suas actividades numa área aproximada de 51.000 hectares nos Distritos de Cahora Bassa, Marara, Chiuta, Chifunde e Maravia, na Província de Tete.

Investment Project Authorisation 2025


REPÚBLICA DE MOÇAMBIQUE

CONSELHO DE MINISTROS

DECRETO N.º_____/2025

de _____de _____

**Aprova os termos e condições da Concessão do Empreendimento Hidroeléctrico de Mphanda Nkuwa, entre a República de Moçambique e a CENTRAL HIDROELÉCTRICA DE MPHANDA NKUWA S.A., para a produção e venda de energia eléctrica com capacidade total instalada de até 1500 MW.**

A existência e disponibilidade de electricidade é um factor essencial para o desenvolvimento económico e social de Moçambique.

Tomando-se necessário atribuir uma concessão e aprovar os respectivos termos e condições para a produção e venda de energia eléctrica à Central Hidroeléctrica de Mphanda Nkuwa S.A., para a realização do Empreendimento Hidroeléctrico de Mphanda Nkuwa, ao abrigo do disposto na alínea a), do artigo 5, da Lei n.º 12/2022, de 11 de Julho, conjugado com o n.º 2 do artigo 13, da alínea d), do n.º 2, do artigo 21, ambos da Lei n.º 15/2011, de 10 de Agosto, o n.º 2 do artigo 38 do Decreto n.º 16/2012, de 4 de Julho, e o artigo 35 da Lei n.º 16/91, de 3 de Agosto, o Conselho de Ministros decreta:

**Artigo 1**
**(Âmbito)**

É atribuída a concessão e são aprovados os respectivos termos e condições da concessão do Empreendimento Hidroeléctrico de Mphanda Nkuwa, para a concepção, construção, posse, operação, manutenção, financiamento, seguro e gestão de uma central eléctrica, para a produção e venda de energia eléctrica produzida, com capacidade total instalada de até 1500 MW (a "Concessão").

**Artigo 2**
**(Objecto)**

A Concessão tem por objecto a implementação do Empreendimento Hidroeléctrico de Mphanda Nkuwa.

**Artigo 2-A**
**(Legislação aplicável)**

A Concessão rege-se especialmente pela Lei n.º 15/2011, de 10 de Agosto (Lei das PPP, POD e CE) e Lei n.º 12/2022, de 11 de Julho (Lei da Electricidade) e respectivos

CONCESSION DECREE

2025-26


Private & Confidential

REPUBLIC OF MOZAMBIQUE

CONCESSION AGREEMENT

FOR THE DESIGN, CONSTRUCTION, POSSESSION, OPERATION, MAINTENANCE, FINANCING, INSURANCE, MANAGEMENT AND TRANSFER OF MPHANDA NKUWA HYDROPOWER PROJECT

ENTERED INTO BY AND BETWEEN

THE REPUBLIC OF MOZAMBIQUE
represented by the Ministry of Mineral Resources and Energy

and

[●]

CONCESSION CONTRACT

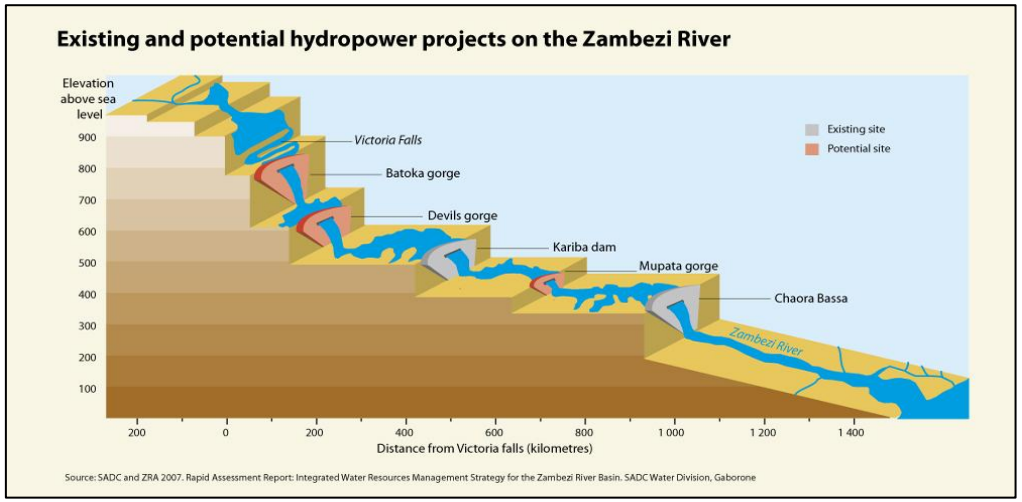
# STAKEHOLDERS ENGAGED

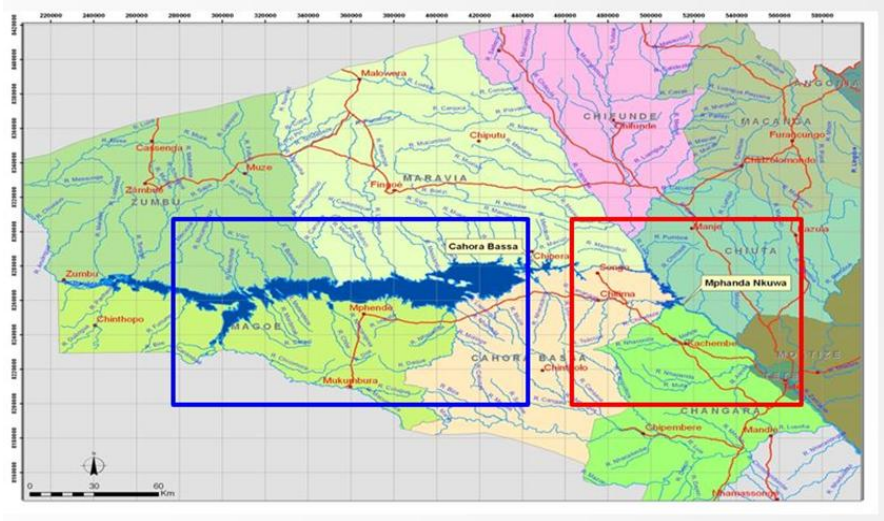
## Leveraging EDM, HCB, Private Sector (PPP) and Multilateral institutions, with support from Advisors

| | | |
|---|---|---|
| ELECTRICIDADE DE MOÇAMBIQUE, E.P. | EDM | • Transaction experience and track-record of conducting full-fledged auction process (like Temane)<br>• Regulatory system operator and market operator |
| HIDROELÉCTRICA DE CAHORA BASSA | HCB | • Knowledge of developing and operating large hydropower project<br>• Financial capability with strong balance sheet and cash flows |
| Strategic Partners (EDF Led Consortium) | EDF, TOTAL, SUMITOMO | • Selected through an international competitive tender as the Preferred Bidder<br>• Technical and Financial capacity/competence to bring the project to bankability<br>• To arrange debt financing from international lenders on a limited recourse or non-recourse basis |
| Multilateral Institutions / DFIs | WORLD BANK GROUP<br>IFC<br>European Investment Bank | • Strong interest from IFC, MIGA, World Bank, AfDB, EIB, IsDB, etc. for participation in Generation as well as Transmission Projects in terms of donor / concessional financing<br>• PRG discussions ongoing with MIGA and AfDB<br>• IFC in discussion for a participation in generation project from development phase |
| Regional Offtaker(s) | Regional Offtakers | • IGMoU signed with Government of South Africa<br>• Discussions ongoing with other regional and industrial offtakers |

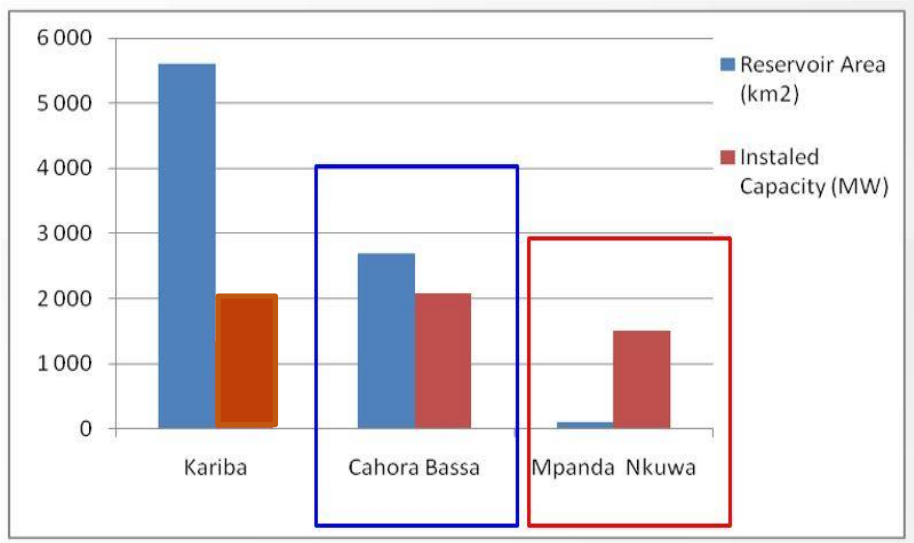
# PROJECT AREA


MOZAMBIQUE




- Preliminary assessments (Multi – Criteria analysis) indicate that the development of the project will perform very favourably in terms of social and environmental impact, due to its fluvial nature (run-of-river) and given that the reservoir is substantially smaller than other hydropower plants of a similar size.
- The project has a small flood area (4% of HCB reservoir), much smaller than that of other hydropower plants of the same size;
- The project is currently in the process of updating the existing Environmental and Social Impact Assessment (ESIA) of the Power Generation and Transmission infrastructure to guarantee, among other things, the maintenance of the environmental balance downstream, safeguarding the needs of the affected communities, land-use planning and the safety of the population.



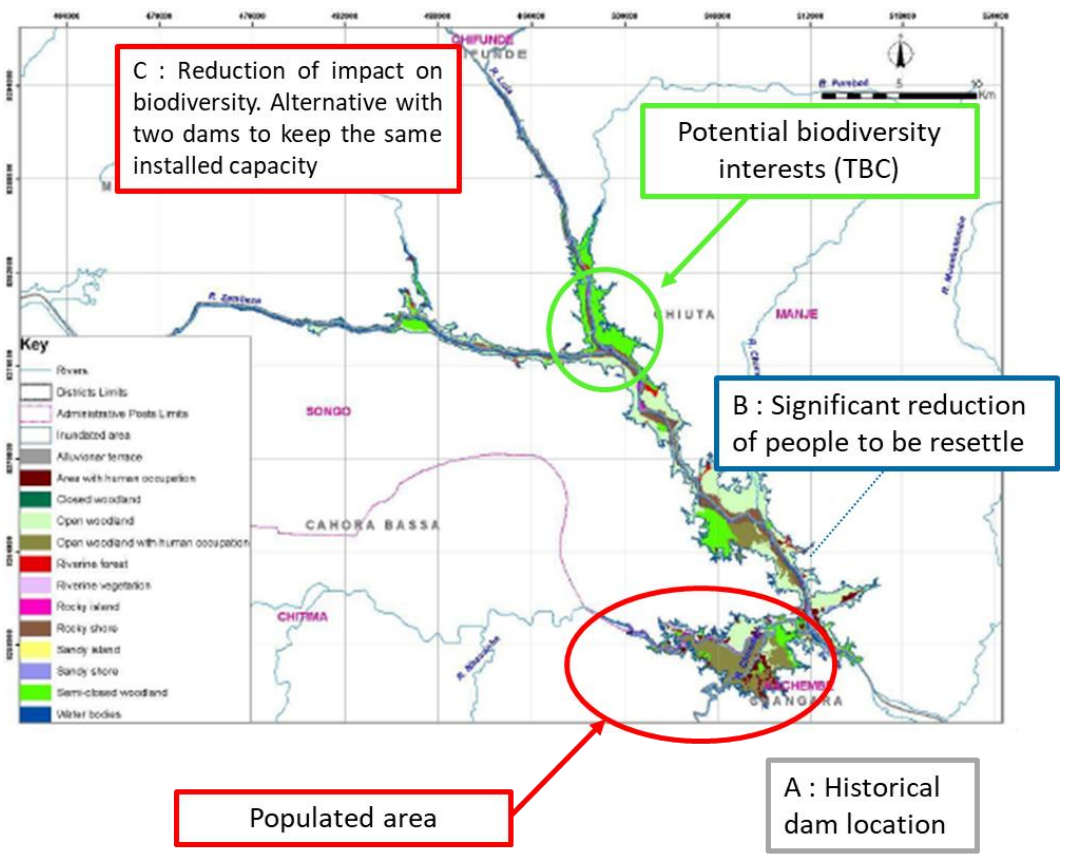
# CASCADE OPTIMIZATION | MULTI-CRITERIA ANALYSIS

## Multi-Criteria Analysis of Alternatives (MCA) ➔ An essential step in ensuring International ESIA compliance

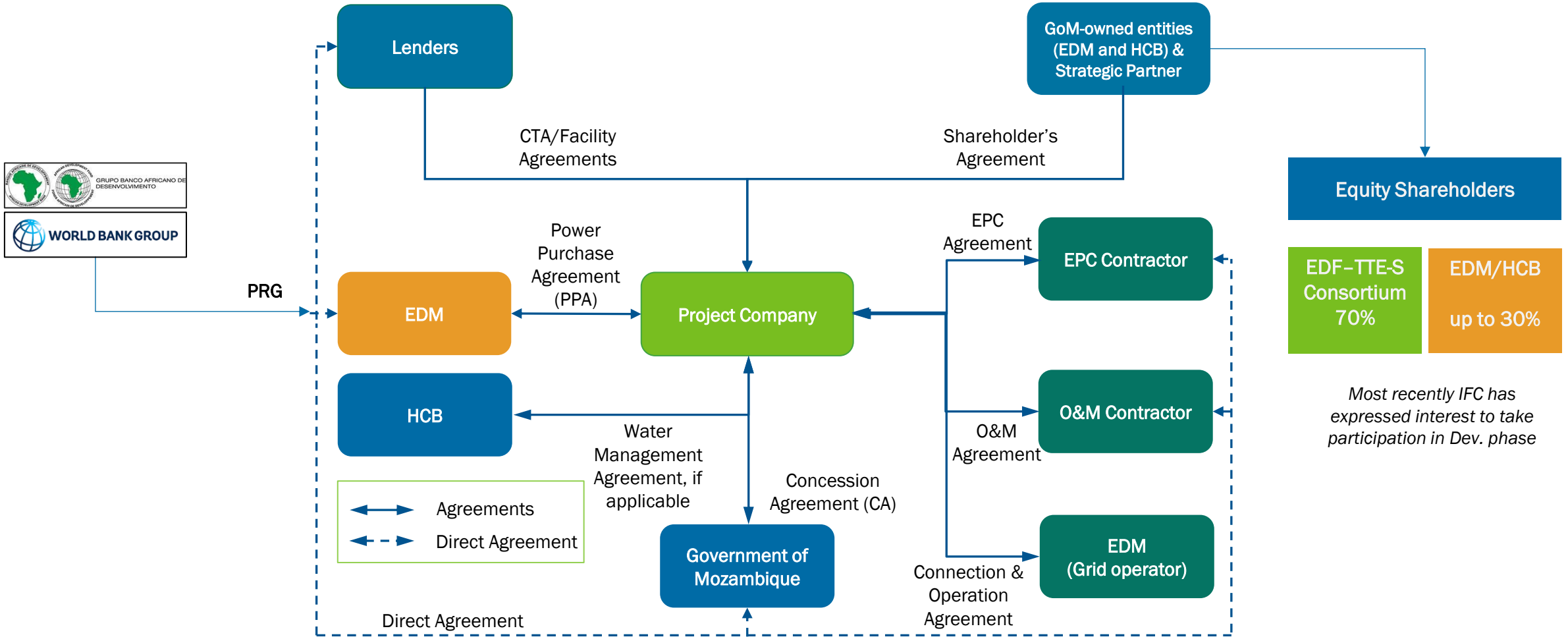
The Multi-Criteria Analysis (MCA) objective is **to define the DAM LOCATION and main WATER LEVELS which lead to the best trade off when considering the CAPEX estimate, risk analysis, annual energy generation and social and environmental impacts. Options are being compared.**

The optimization including the E&S point of view from the beginning of the studies is a requirement from international finance institutions. In this phase, different design options will be compared**, in order to reach an optimum to avoid and reduce E&S impacts as much as possible**. For example, reduce the number of households and villages to resettle, avoid impacts on the most fragile biodiversity sites and species, allow terrestrial and aquatic connectivity, reduce the magnitude of construction and downstream impacts.

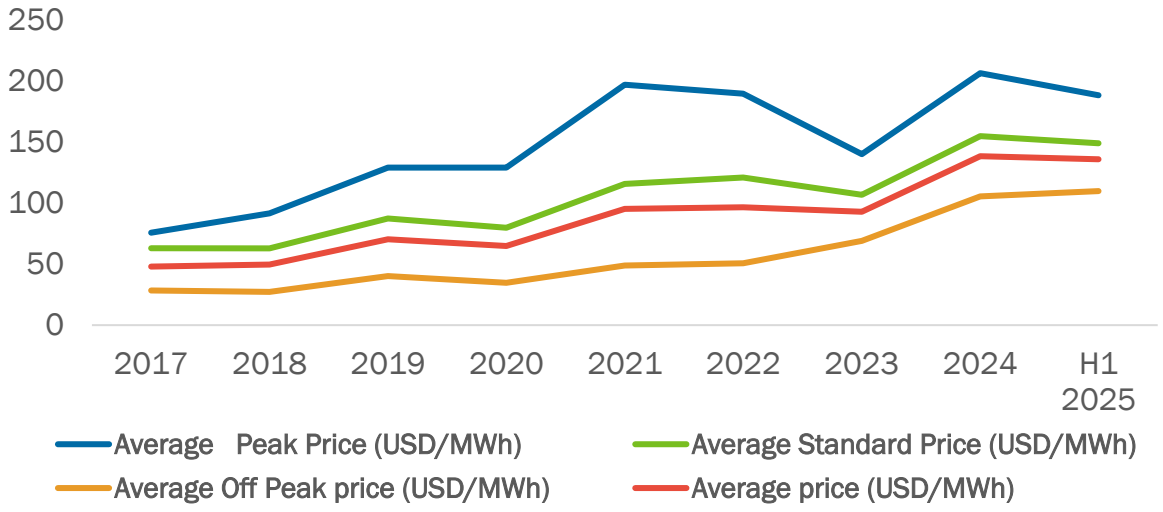
**Finally, it aims to ensure that the project is less risky, more sustainable, accepted by local, national and international stakeholders, and in line with international standards and good industry practices.**

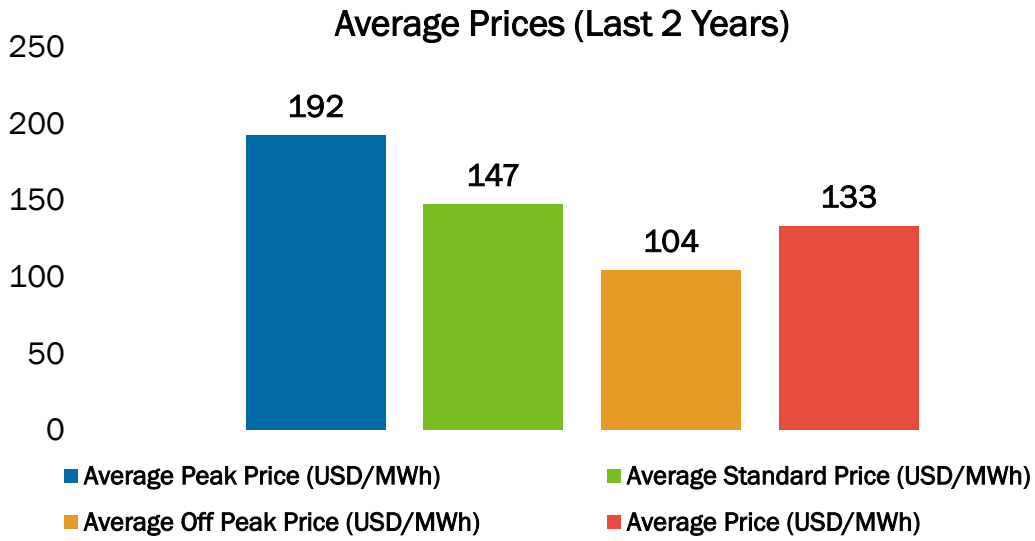


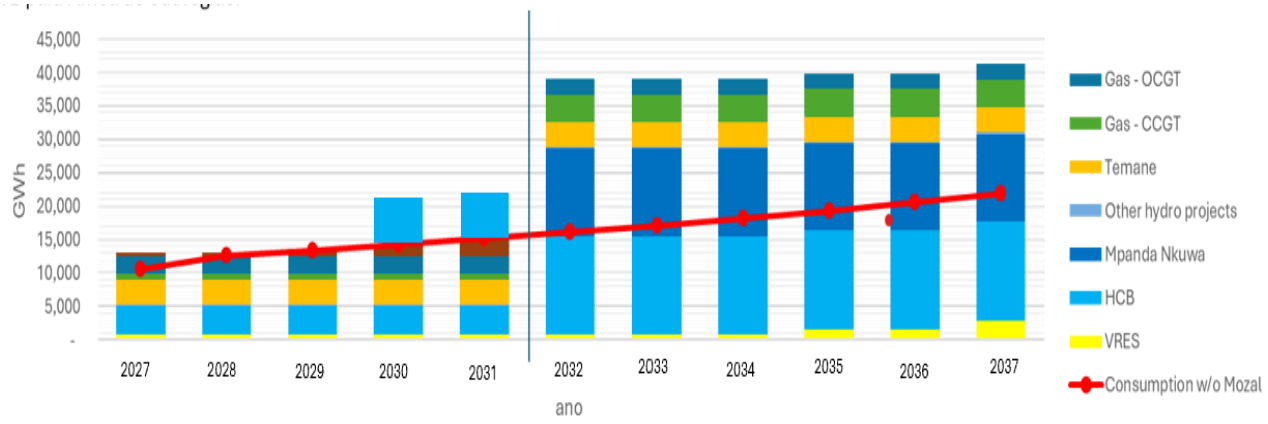
# GENERATION PROJECT I PROPOSED CONTRACTUAL STRUCTURE



# ENERGY SECTOR OVERVIEW I MARKET ELECTRICITY PRICES



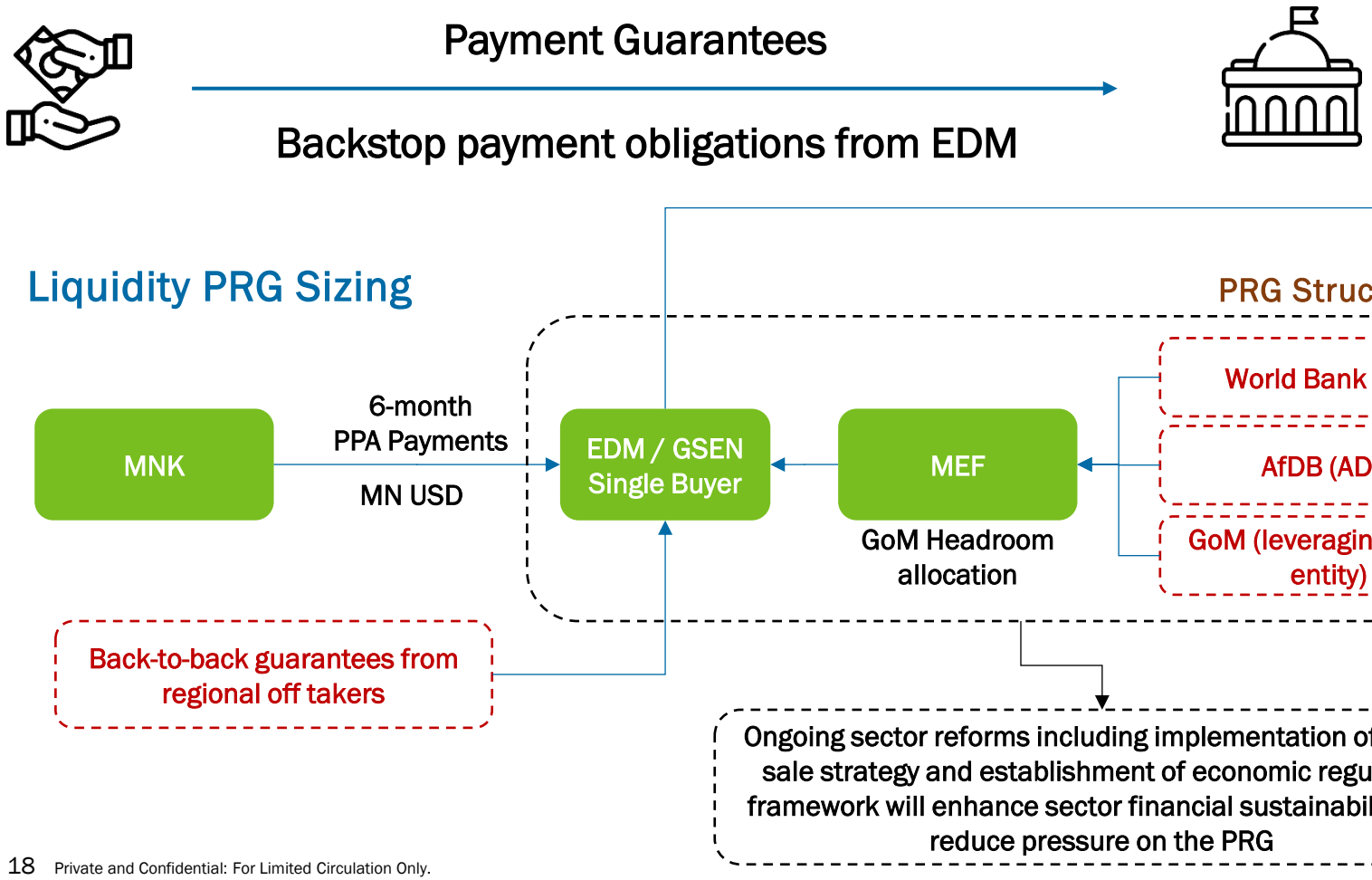

## Key Considerations

- From 2014 to 2028, Mozambique **will build and or commission approximately 865 MW** with expected load growth, for the same period, estimated at 300 MW, generating surplus power for export
- **Mozambique will) its export of power by 2033 double** (estimated at 20 TWh) with the return of control of HCB power and coming into operation of CTT and MNK between 2028 and 2033,
- Mozambique will, by far, **provide the lowest blended cost of electricity for the region which is in deficit power**

# Envisaged Offtake Structure Supporting the PRG

## Objective

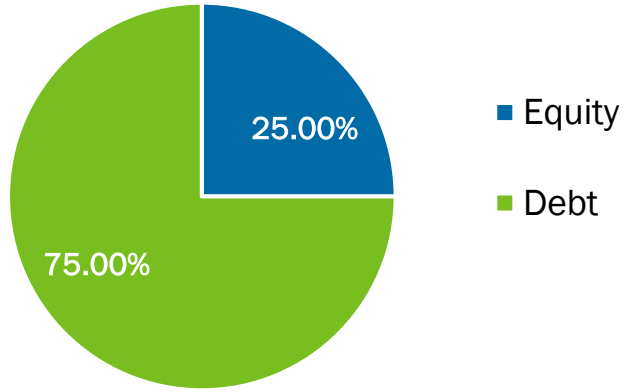
- The payment guarantees will backstop EDM payment obligations under the PPA and will provide comfort to both lenders and investors. The payment guarantees will support the security package for EDM's payments covering 6-month energy payments under Power Purchase Agreement with EDM.



# FINANCIAL MODEL SUMMARY

## An overview of the Project's economic and financial assumptions

| Sources and Uses of Funds | Value (in USD) | Remarks |
|---|---|---|
| Total Uses of Funds | ~5.0-5.2 BN | |
| Sources of Funds | | |
| Debt (~75% of project cost) | ~3.7 – 3.9 BN | Indicative leverage of 75% of Project cost. Bidders are expected to optimize based on their discussions with lenders |
| Equity (~25% of project cost) | ~1.1 – 1.5 BN | |
| Total Sources of Funds | ~5.0 – 5.2 BN | |



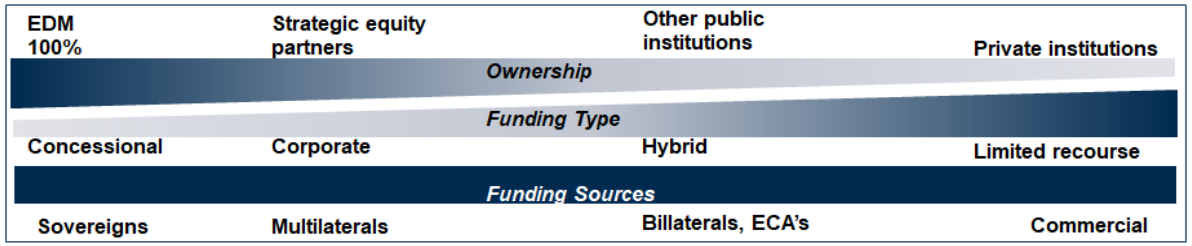

**Equity**

- Strategic Partner has a shareholding of 70% in the Project Company while GoM owned entities (EDM and HCB) have a combined shareholding of 30%

**Debt**

- The Project is already showing strong appetite from various DFIs.
- The Strategic Partner will lead in arranging debt financing for the Project on a limited recourse or non-recourse basis, debt financing may include financing by DFIs, ECAs and commercial banks
- Debt financing strategy shall be focused on attracting long tenors, lowest margins and adequate cover for political and commercial risks, to secure a competitive all-in cost of financing for the Project.

# FINANCIAL MODEL SUMMARY




## Sources of Funding

| Sources | Total $ Mn | % |
|---|---|---|
| Equity | 422 | 8.34% |
| Shareholders Loan | 843 | 16.66% |
| Loans | 3,795 | 75.00% |
| Others | 0 | 0.00% |
| **Total** | **5,060** | **100.00%** |

## Ownership Structure

| Enitity Name | Ownership | Invested % | Invested $ Mn |
|---|---|---|---|
| EDF Consortium | 70% | 100% | 843 |
| GoM | 30% | 0% | 0 |
| **Total** | **100%** | **100%** | **843** |

*20 LOI's received oversubscribed, Average tenor of the debt offered by the financing institutions is ≥ 20 Years (door to door).*

## Key Debt Assumptions

| | |
|---|---|
| **Borrower** | A company incorporated under the laws of Mozambique (**"MNK GenCo"**) |
| **Senior facility** | The facility of USD #4Bn split unto three senior tranches |
| **Type of senior tranches** | i. DFI funded<br>ii. ECA covered<br>iii. PRI covered |
| **Currency** | USD |
| **Max gearing ratio** | 75:25 |
| **Debt sizing DSCR** | 1.40x |
| **Security package** | Standard project finance security package |
| **Required reserve accounts** | Debt service reserve account ("DSRA") equal to 6 months of debt service. Any other reserve account requirements to be determined during the due diligence stage |
| **PRG cover / Buyer's Credit Support** | Partial Risk Guarantee from IDA for 6 months revenue from EDM to be backed by L/ C procured by EDM and guaranteed by GoM |

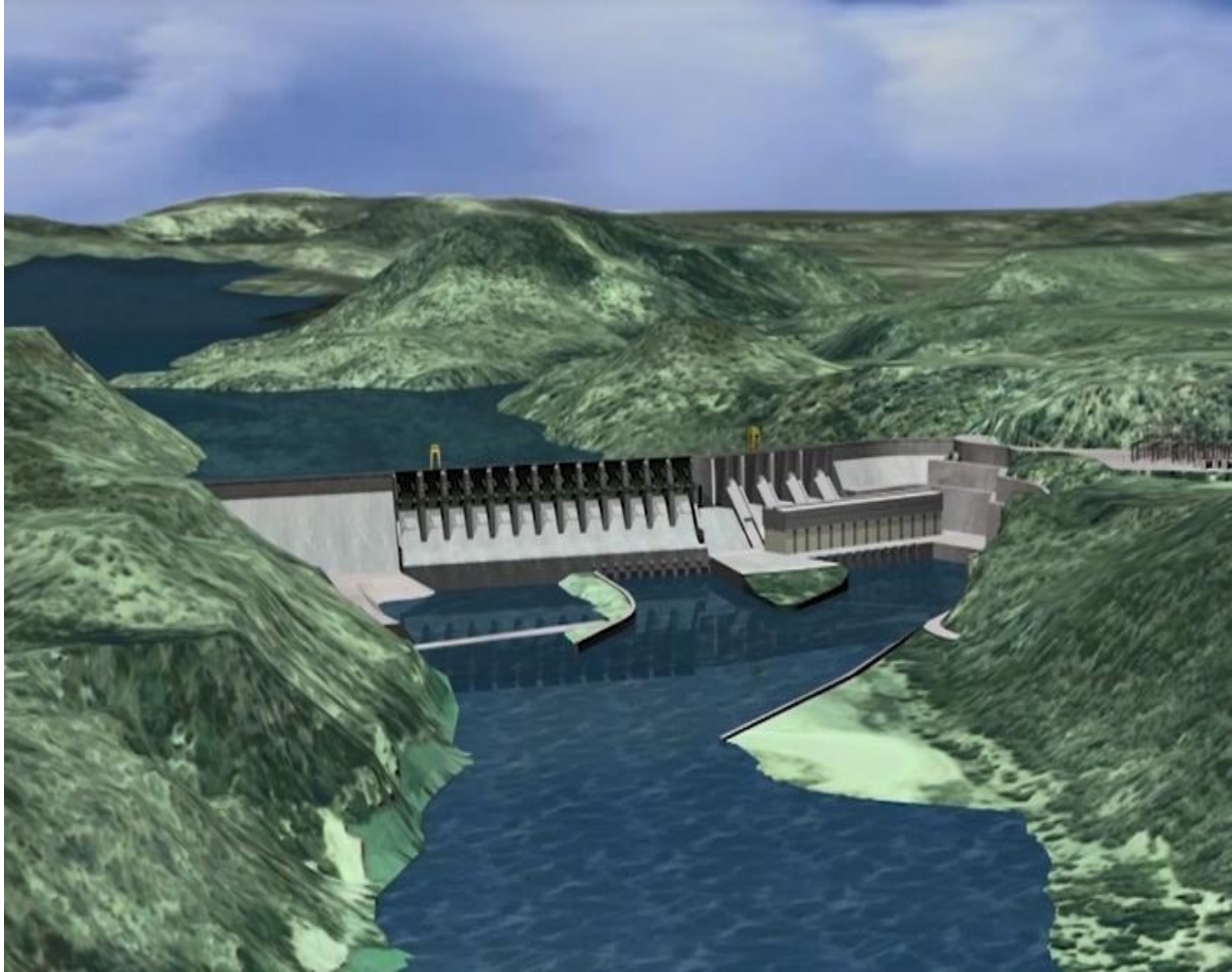
# TIMELINE

Following represents a high-level timeline for implementation of different stages of the MNK Generation Project:


| Dec '21 – Mar '23 | Apr '23 –H2 '28 | H1 '29 – H1 '33 | Commissioning and Operation > 2033 Onwards |
|---|---|---|---|
| The tender process for the selection of the Strategic Partner for the development of Generation Project | Strategic Partner selection to Financial Close<br>Discussion & negotiation of Project Agreements<br>Completion of site technical/environmental studies<br>Financial Close expected in H2 2028 | Construction period of the Generation Project<br>Assumed a period of 5+ years for Generation Project, considering the large size of the Project and as per initial Project feasibility study | Commissioning of Project and operations start for the PPA term of 30 years |

03

# Regional Transmission Backbone



# ENERGY SECTOR OVERVIEW I REGIONAL CONNECTIVITY

## Transmission grid today

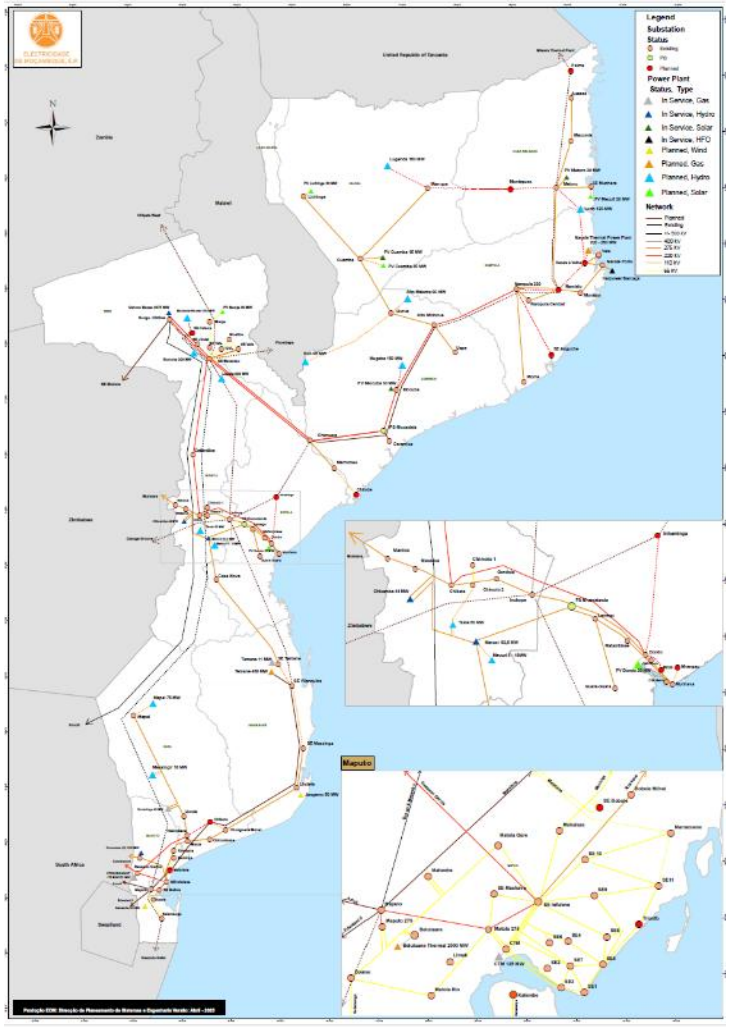
- Operated by EDM. Subdivided into three parts: **Northern region, Central region and Southern region with approximately** 5,679 km of high-voltage lines—of which only 367 km are at 400 kV—

## Future transmission grid

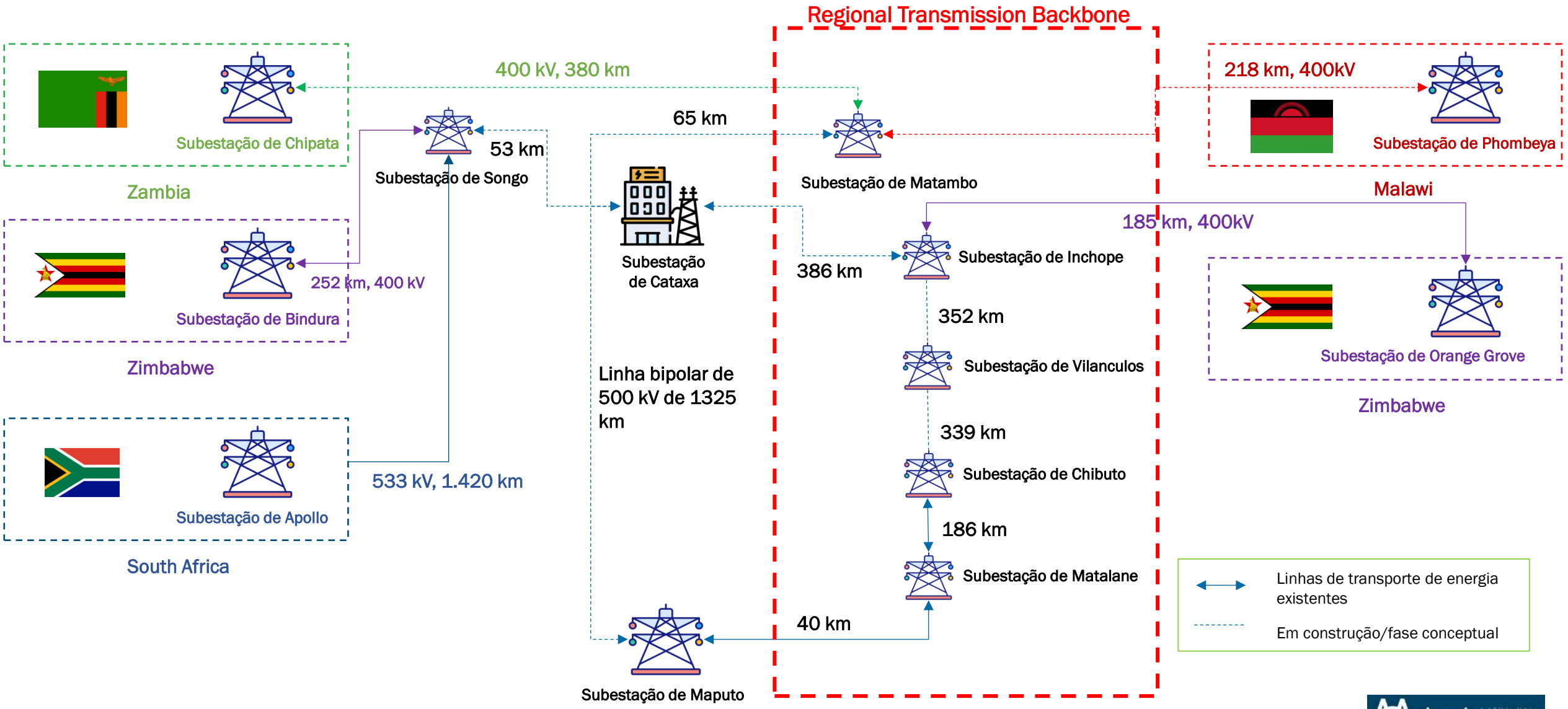
- It is essential to **connect the production from the Central region** where the Hydro potential is located to:
  - **Northen region** where the gas production is located, and potential industrial development is envisaged
  - **Southern region** (Maputo) where the highest demand is concentrated and where the Southern African Power Pool (SAPP) is interconnected
- Mozambique is establishing a **National Control Center** and **3 regional dispatch centers** (North, Center and South)

## Current activities

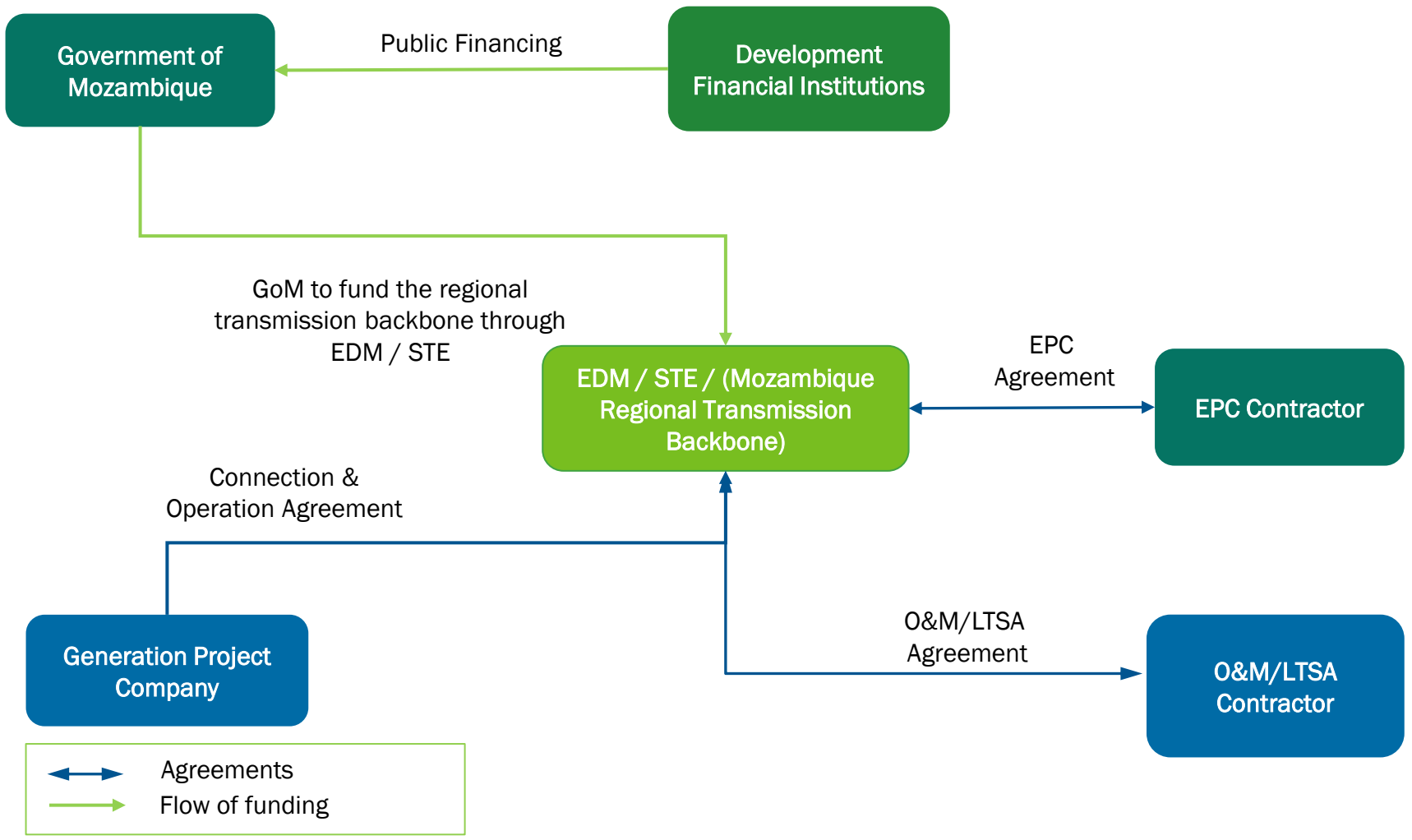
- Chimuara - Alto Molocue (368km)
- Temane – Maputo 400 kV (523km) Transmission Line under Commissioning
- Mozambique – Malawi (MOMA) (142km) interconnection
- Songo – Cataxa – Matambo – Inchope - Vilanculos – Maputo,400kV line, 1300km) (Green Energy Corridors Project – GECP I, II and III)

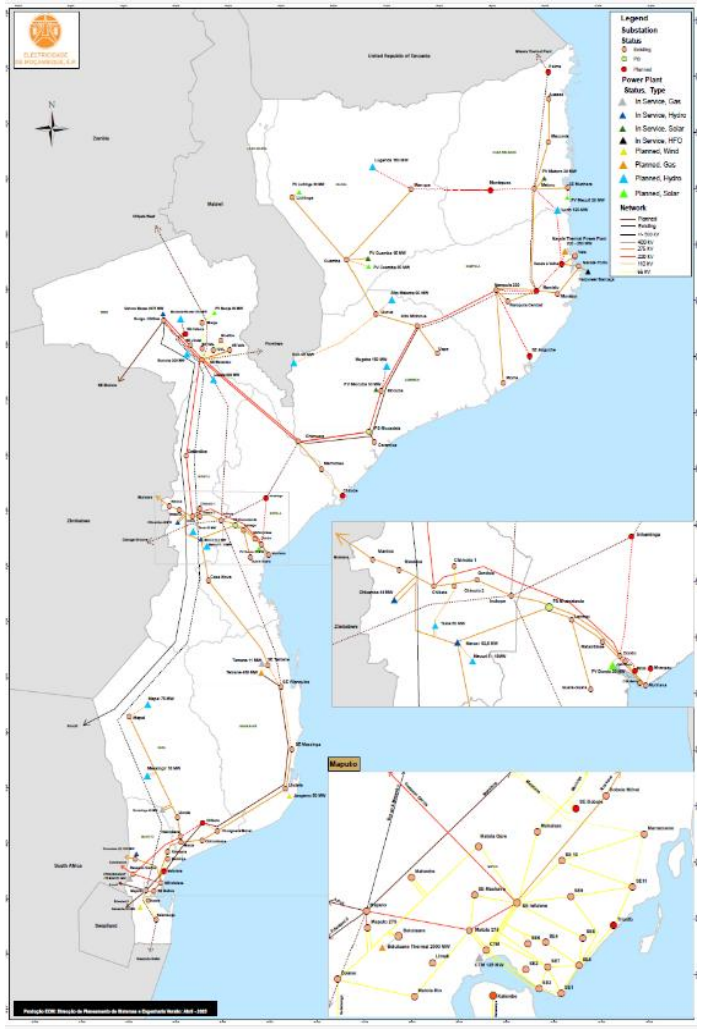


# MOZAMBIQUE REGIONAL TRANSMISSION BACKBONE



# TRANSMISSION PROJECT I PROPOSED CONTRACTUAL STRUCTURE



# PROJECT OVERVIEW – FINANCING

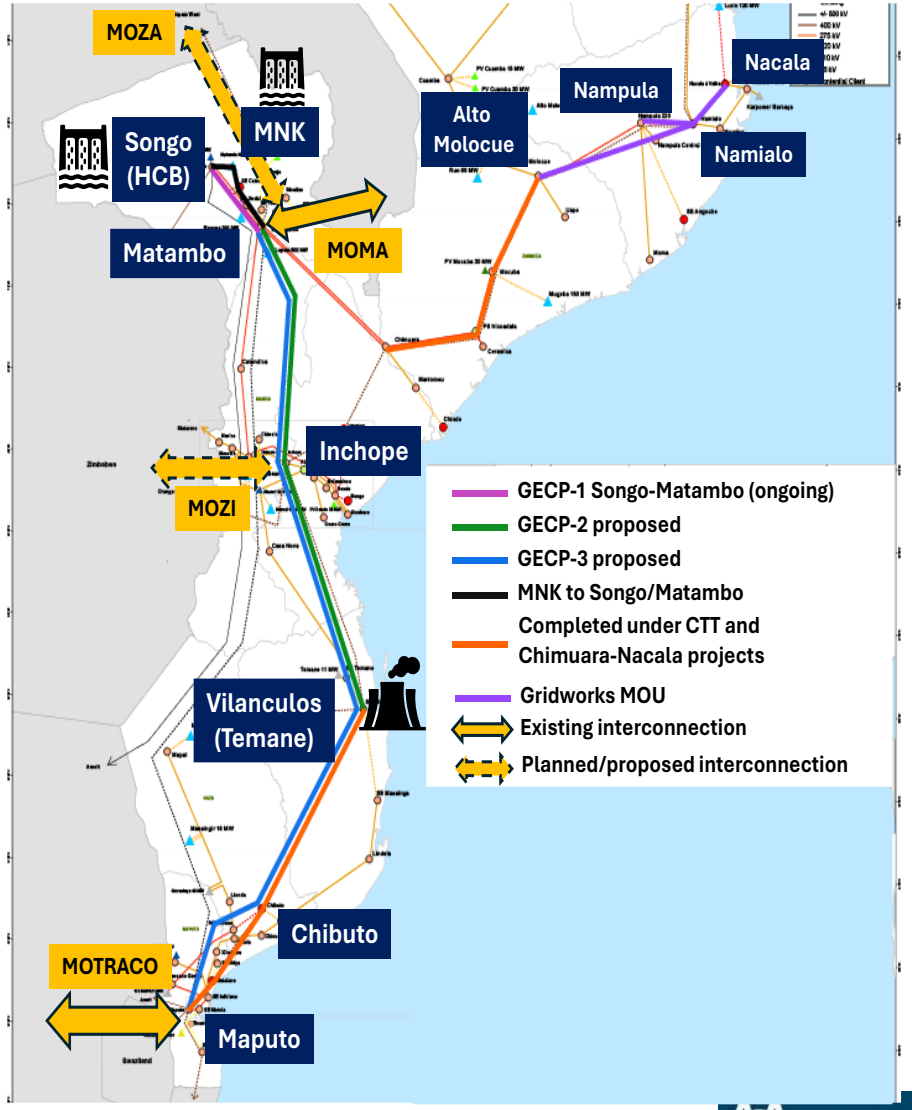
## Tentative Package (US$, million)

| | Board Delivery | Total cost |
|---|---|---|
| GECP II | Q1 FY27 | 500-600 |
| GECP III | FY28 | 900-1,100 |
| Total | - | 1,400-1,700 |

## Potential co-financing (US$, million)

| Development Partners | Grant | Non-concessional Loan | Concessional Loan | Total |
|---|---|---|---|---|
| EU | 60 | | | 60 |
| EIB | | 406 | | 406 |
| IsBD | | 300 – 400 | 20 | 320 – 420 |
| Norway | 25 | | | 25 |
| AfDB | 150 – 200 | | | 150 – 200 |
| IDA (requested) | 500 – 600 (Phased) | | | 300 |
| Total | 735 – 885 | 706 – 806 | 20 | 1.4 – 1.7 bn |

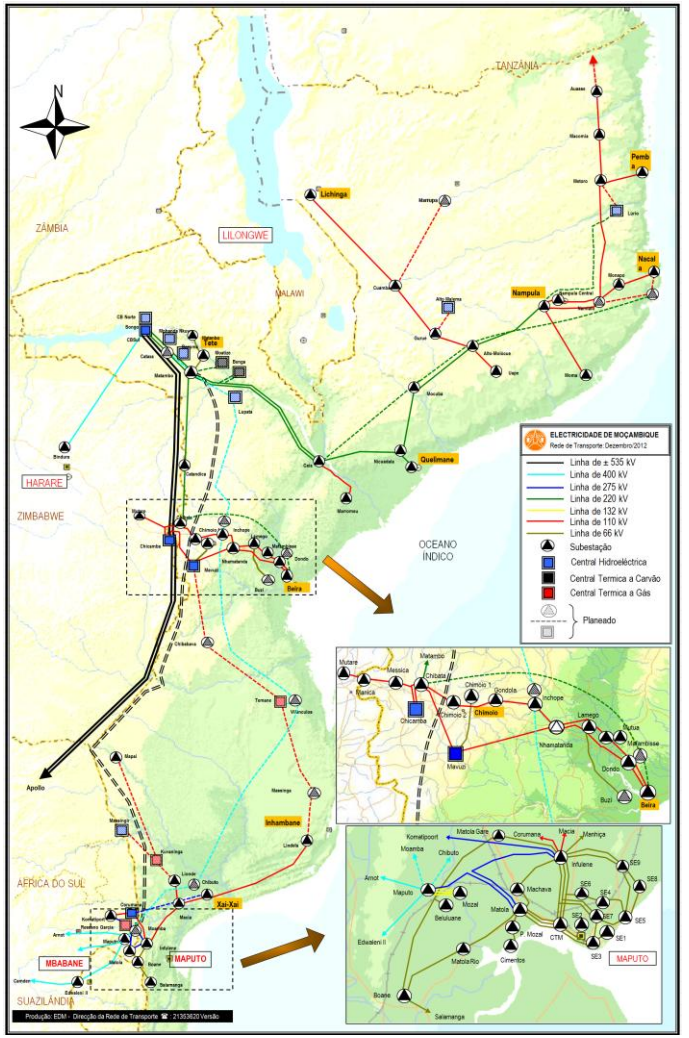
- *Amounts are to be confirmed.*
- *Potential additional contributions by KfW and Sweden for Mozambique – Zimbabwe interconnection*



# MOZAMBIQUE REGIONAL TRANSMISSION BACKBONE

## Transmission Project

- Regional transmission backbone of Mozambique will enable evacuation of bulk renewable power from the Centre to South and will integrate the **North (Cataxa)** and **South (Maputo)** of Mozambique
- GoM on the development of the regional transmission backbone project on a Public Ownership
- World Bank, African Development Bank, European Investment Bank and UE, in collaboration with GoM, is seeking to arrange ~$1.4B sovereign-level financing from various DFIs.
- Regional Transmission backbone Project will support the GoM vision for sustainable clean energy, Industrialization, Universal access and regional Integration




## Project Timeline

| Jan '24 - Dec' 27 | Jan '28 – Dec '32 | H1 2032 onwards |
|---|---|---|
| Development Phase – **Project Structuring, Technical Studies, Financing, Tender Process** | **Development and Construction Period** – Regional, Mozambique, Transmission project | Commissioning and operations start for regional, Mozambique, Transmission project |

# Social Development program

***“Empowering Communities and Energising Generations”***

# Social Development Plan

The Social Development Program aims to establish clear commitments regarding local content and social responsibility during the project preparation phase, prior to the construction and operation of the Mphanda Nkuwa Hydropower Project (MNK), ensuring that the project becomes a catalyst for sustainable economic and social development. **Its design was developed through an inclusive, comprehensive, and extensive community consultation process.**


| FOCUS GROUP DISCUSSIONS WITH COMMUNITIES | INTERVIEWS WITH COMMUNITY LEADERS | INTERVIEWS WITH THE DISTRICT ADMINISTRATION AND DISTRICT SERVICES | INTERVIEWS WITH ADMINISTRATIVE POST CHIEFS AND LOCALITY CHIEFS |
|---|---|---|---|
| 52 Meetings<br>44 Neighbourhoods<br>12 Villages / Settlements<br>1,844 Participants | 27 Community Leaders<br>3 Districts | District Administration<br>SDAE, SDPI, SDEJ, SDMAS<br>3 Districts | 2 Administrative Post Chiefs<br>4 Locality Chiefs<br>3 Districts |

| PROVINCE | DISTRICTS | VILLAGES (POVOADOS) |
|---|---|---|
| TETE | Marara | Cataxa |
| | | Nhambolale |
| | | Chacocoma |
| | | Chirodzi Nsanangué |
| | Cahora Bassa | Kalibote |
| | | Nhamidima |
| | | Ntepe |
| | | Chamimba |
| | Chiúta | Mayombe |
| | | Mwanangombe |
| | | Luzinga Mussafa |
| | | Luzinga Djacalasse |

| WATER | EDUCATION | AGRICULTURE AND LIVESTOCK | ENERGY | HEALTH |
|---|---|---|---|---|
| Maintenance of water boreholes and pumps | Vocational training scholarships | Procurement and installation of livestock handling facilities (cattle crushes) | Electrification of settlements through extension of the existing electricity grid | Support to mobile health brigades |
| Drilling of water boreholes | Rehabilitation of classroom blocks | Construction of livestock watering points | Electrification of settlements using solar systems | |
| Installation of solar-powered water pumping systems with water storage tanks | Construction of classroom blocks and sanitation facilities | Training of farmers and producers in good agricultural and livestock management practices | Electrification of schools using solar systems | |
| Training of Community Committees in the management and maintenance of installed systems | Provision of equipment and materials to schools | | Installation of public lighting poles powered by solar systems | |

# Activities Carried Out

## MOBILE HEALTHCARE
Marara, Cahora Bassa e Chiúta

- **4,589** beneficiaries reached through mobile healthcare teams
- **4,170** mosquito nets distributed for malaria prevention
- **6,255** bottles of Certeza distributed for cholera prevention
- Training on the use of ambulances and emergency patient management conducted for health personnel

## NUTRITION TRAINING

- **100** women trained
- Theoretical training and practical cooking demonstrations
- Promotion of healthy eating habits, dietary diversity and the efficient use of local produce

## AMBULANCE


- **3** fully equipped ambulances acquired
- One ambulance allocated per district (Marara, Cahora Bassa and Chiúta)
- Handover protocol will be developed with defined requirements

## AGRICULTURAL SUPPORT

**2,070** agricultural kits distributed

Each kit included:

- 2 kg of nhemba bean seeds
- 1 kg of peanut seeds
- 4 kg of sorghum seeds
- 2 hoes

**4,589** beneficiaries reached through mobile healthcare

**100** women trained in nutrition

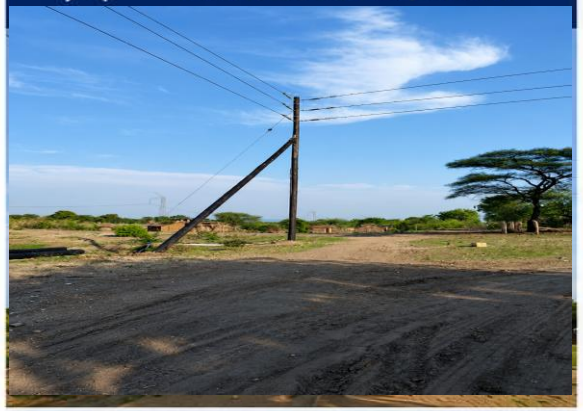
**3** ambulances acquired

**2,070** agricultural kits distributed


PROGRAMA DE DESENVOLVIMENTO SOCIAL DO PROJETO
Cerimónia de Encerramento da capacitação Jovens das comunidades loc
Songo, 31 de Janeiro de 2022

# Activities Carried Out

## ELECTRIFICATION
Infrastructure Expansion



### Marara District
- 27 km of 33 kV medium-voltage line to be constructed

### Cahora Bassa District
- 19 km of 33 kV medium-voltage line to be constructed

**HIGHLIGHT**
**46 km**
of 33 kV medium-voltage line to be constructed

## MINI-GRIDS AND SOLAR KITS
Off-Grid Solutions

- Procurement process underway
- Mini-grids and solar kits planned for the three districts

## EDUCATION SUPPORT
Investing in Our Children


- **374** pupils received full school kits
- Distribution of uniforms
- Distribution of basic stationery and study materials
- Ensuring better learning conditions

## SPORTS DEVELOPMENT
Promoting Youth and Community Wellbeing

- **100** footballs distributed
- **100** whistles distributed
- **330** sports kits distributed (shorts, shirts and socks)
- Across all districts and villages covered by the project

**46 km**
of 33 kV medium-voltage line to be constructed

**Mini-grids and solar kits**
planned for the three districts

**374**
pupils supported with school kits

**100 | 100 | 330**
Footballs | Whistles | Sports kits distributed






ISPS








# Local Content

## Local Workforce Employment

- **40 young people** employed for geophysical and geotechnical studies;
- **110 young people** expected to be employed for the maintenance of solar systems across **55 neighbourhoods**.

## Youth Training

**36 young** people were trained in the installation, maintenance and operation of solar kits and photovoltaic mini-grids.

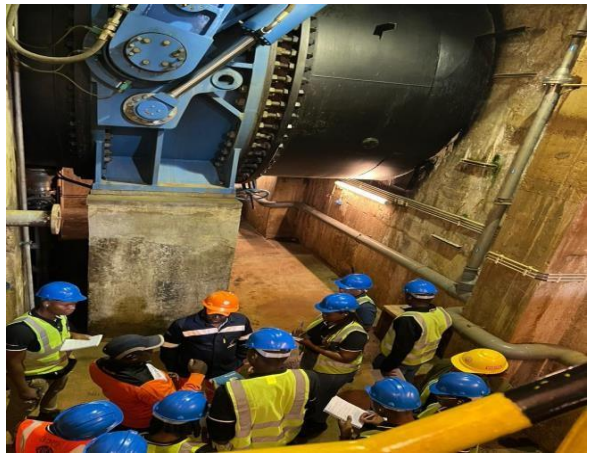
# Young Professionals Programme

***“Youth, the Key to Development.”***

## PROGRAM RATIONALE

i. The Young Professionals Programme **was established as part of the structuring and development of the associated Mphanda Nkuwa Hydropower Project**

ii. As part of its commitment to social responsibility and local content, the Programme seeks to **empower recently graduated Mozambican young professionals by equipping them with the skills and opportunities** required to contribute to the planning, development, construction, and operation of the project. The Programme is guided by the motto: **“Youth, the Key to Development.”**



- A total of **14 candidate**s were selected, of whom **6 are male (43%) and 8 are female (57%),** demonstrating a strong commitment to gender inclusion.

- From a regional perspective, 11 candidates **79% are from the Southern Region of Mozambique** (7 from Maputo City and 4 from Maputo Province), 2 candidates **14% are from the Central Region** (Beira, Sofala Province), and 1 candidate 7% **is from the Northern Region** (Lichinga, Niassa Province).

- Of the 14 selected candidates, 5 graduated from the Universidade Eduardo Mondlane (UEM).

- Regarding academic qualifications, 2 candidates (16%) hold a Master's degree, while 12 candidates (84%) hold a Bachelor's degree. Notably, one of the selected candidates obtained her degree from the Instituto Superior Politécnico de Songo, located in Tete Province, the area where the Mphanda Nkuwa Project will be implemented.

## Jovens recém-graduados iniciam estágio profissional no Projecto Mphanda Nkuwa

*- Arrancou, recentemente, o Programa de Estágios Profissionais do projecto Mphanda Nkuwa, com o lema "Juventude, A Chave do Desenvolvimento", na sua sede, em Maputo, onde os estagiários foram recebidos pelas equipes de recursos humanos e técnicas, que aproveitaram a ocasião para destacar o compromisso do projecto com o conteúdo local, de desenvolvimento de competências e capacitação de jovens moçambicanos recém-graduados.*

**MAPUTO - Os estagiários foram submetidos a um processo de acolhimento e integração, nas duas primeiras semanas, visando familiarizá-los com os processos e procedimentos internos, assim como os elementos relativos a ética e deontologia profissional. Nas semanas subsequentes, serão integrados nos respectivos sectores de trabalho, em função das suas áreas de formação, seguindo se visitas e estágios às empresas nacionais dos accionistas do projecto, nomeadamente a Electricidade de Moçambique e Hidroeléctrica de Cahora Bassa.**

Adicionalmente, os estagiários tiveram sessões de indução sobre o funcionamento, composição e atribuições do Fundo de Energia (FUNAE), Mozambique Transmission Company (MOTRACO) e Southern Africa Power Pool (SAPP), prevendo-se ainda sessões com a Autoridade Reguladora de Energia (ARENE). O Programa de Estágios Profissionais visa dotar os jovens moçambicanos recém-graduados nas diferentes universidades públicas e privadas de todo o país de oportunidades e capacidade técnica na gestão, estruturação, construção e operação de grandes projectos. O mesmo foi criado para permitir que os jovens recém-graduados possam participar de todas as fases do desenho e implantação do projecto Mphanda Nkuwa, dotando os mesmos de



conhecimentos técnicos e práticos com padrões nacionais e internacionais, tendo em conta o envolvimento que terão com vários consultores nacionais e internacionais experientes envolvidos no processo, o que pode constituir mais-valia técnica para o país num futuro próximo e noutros projectos semelhantes.
O programa abrange várias áreas de formação, nomeadamente, engenharia, mecânica, eléctrica, electrónica, construção civil, ciências sociais, ambiente, economia e finanças. Os recém-graduados selecionados são oriundos de várias universidades públicas e privadas.

07

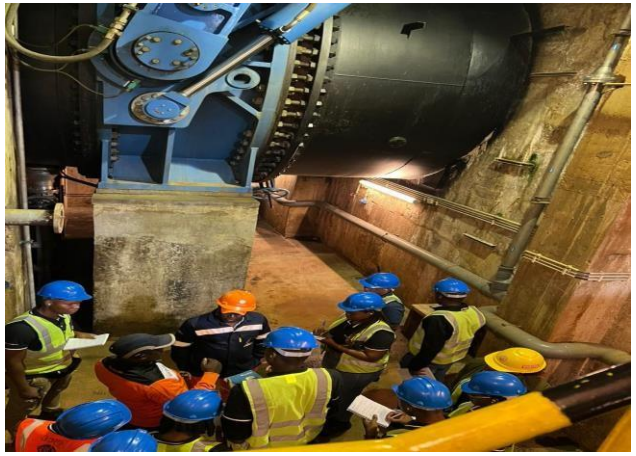
# ACHIEVED RESULTS





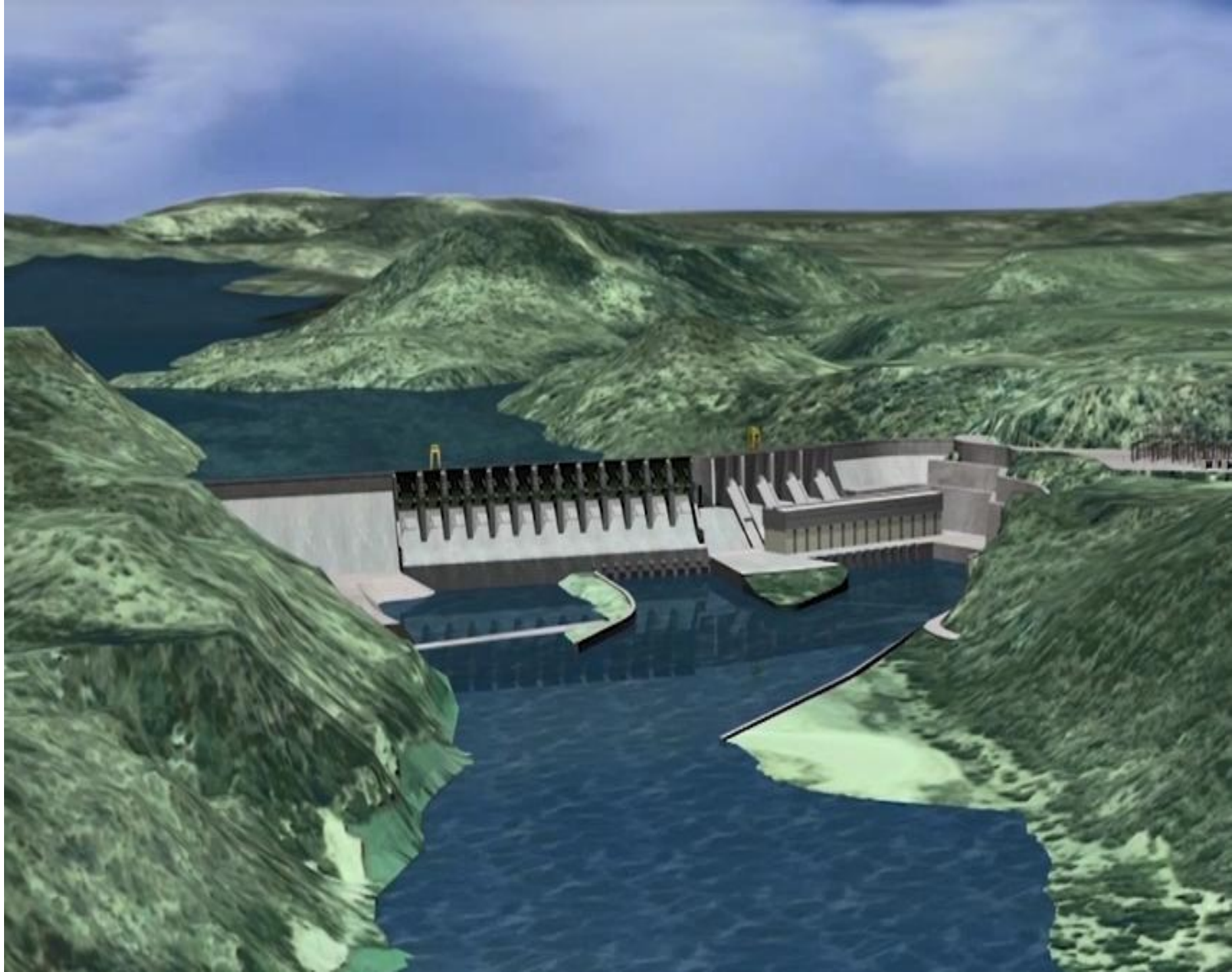



# ACHIEVED RESULTS

04

# Conclusion



# CONCLUSION

- Mpanda Nkuwa Hydropower Project is an investment for a **clean energy future, a catalyst for industrial development**, and a strategic platform for long-term energy partnerships between Mozambique and Europe (UE for Global Gateway Strategy).

- With over 3.0 GW of hydro renewable baseload capacity, **integrated transmission infrastructure, and strong government commitment, Mphanda Nkuwa and Cahora Bassa will enable green industrial value chains** with strong partnerships from leading development finance institutions and global investors.

- Mphanda Nkuwa and the associated regional transmission backbone are **key priority investment for Government of Mozambique** and will unlock transmission electrical infrastructure and generation with large social economic impact for Mozambique and the region

- Mozambique is and will continue to be the **lowest blended cost of electricity in the region** and promote the green Industrialization both national and regional

**We invite European utilities, Infrastructure Investors, Financial Institutions and strategic partners to join us in delivering a project that will Power millions of people, enable sustainable industrial growth, strengthen regional energy integration and contribute to the global energy transition**

# THANK YOU

SIGA-NOS EM

FAÇA SCAN