



## III LUANDA FINANCING SUMMIT FOR AFRICA'S INFRASTRUCTURE DEVELOPMENT

### Project Investment Prospectus – Luapula Hydropower Project

PROJECT SUMMARY	
<b>Project Name</b>	Luapula Hydropower Project
<b>Location</b>	Zambia, Democratic Republic of Congo   Transboundary hydropower infrastructure on the Luapula River, a shared natural border requiring bilateral cooperation and regional energy integration
<b>Sector</b>	Energy
<b>Sub-Sector</b>	Hydropower   Large-scale transboundary hydropower development supporting Southern African Power Pool regional integration and mining sector energy demands
<b>Development Stage</b>	S2B-Feasibility   Pre-investment stage with prefeasibility completed (2019) and ongoing feasibility studies and ESIA partially funded for investment readiness
<b>Project Sponsor</b>	Governments of Zambia and DRC   Bilateral government sponsorship through inter-utility cooperation framework established by 2015 Memorandum of Understanding
<b>Project Cost</b>	US\$ 1,680 million (total Capex from prefeasibility study)   Large-scale hydropower infrastructure investment supporting 789 MW generation capacity for regional energy security
<b>Funding Requirement</b>	Funding of \$5.5 million USD provided by NEPAD IPPF and MCDF, with \$2 million USD shortfall required to finalize full feasibility studies   Project preparation financing with USD 5.5M secured through NEPAD Infrastructure Project Preparation Facility and Multi-Country Development Facility, requiring USD 2M additional for completion

<b>Project Preparation Cost</b>	USD 7.5 million   Comprehensive preparation phase financing covering ESIA for all three sites and technical studies for feasibility completion
<b>Financing Structure</b>	Blended financing   Development finance institution blended finance structure combining concessional and commercial financing for transboundary infrastructure

FINANCIAL OVERVIEW	
<b>Total Project Cost</b>	US\$ 1,680 million (total Capex from prefeasibility study)   Large-scale transboundary hydropower infrastructure investment supporting regional energy security and mining sector development
<b>Capital Structure</b>	Blended financing   Multi-source financing structure combining development finance institution support, government participation, and private sector co-financing
<b>Development Timeline</b>	2015 Inter-Utility MoU; 2019 Prefeasibility completed; 2025 Feasibility studies and ESIA partially funded   Multi-phase development with inter-utility agreement, completed prefeasibility studies, and ongoing preparation for investment decision
<b>Market Demand</b>	Zambia and DRC, secondary offtake by regional utilities (SAPP)   Primary offtake supporting national energy security for Zambia and DRC with secondary regional market access through Southern African Power Pool
<b>Financial Metrics</b>	IRR: IRR 12% - Payback Period: TBA - DSCR: TBA - Expected Equity Return: TBA   Project financial performance indicators with 12% Internal Rate of Return confirmed from prefeasibility analysis
<b>Revenue Model</b>	Pari Passu   Equal treatment revenue sharing model supporting bilateral offtake arrangements between SNEL (DRC) and ZESCO (Zambia)

SUSTAINABILITY AND IMPACT	
<b>Social Impact</b>	Provide affordable and clean energy, reduce power deficits, increase access to electricity, improve network stability, contribute to SAPP energy market capacity, promote regional integration   Comprehensive socio-economic impact through job creation, sustainable industrial development, improved electricity access, and enhanced regional integration supporting mining sector growth

<b>Environmental Impact</b>	Both countries signed and ratified the Paris Agreement with Nationally Determined Contributions (NDCs) - Emissions reduction from renewable energy use supporting low carbon development   Climate change mitigation through renewable energy generation supporting national NDC commitments and transition to cleaner energy mix
<b>Strategic Importance</b>	The Luapula Hydropower Project aligns with several Sustainable Development Goals (SDGs) and the Paris Agreement, promoting sustainable energy initiatives   National and regional energy security priority supporting industrial development, mining sector competitiveness, and climate change mitigation objectives
<b>SDG and Agenda 2063 Alignment</b>	The project is aligned with major objectives such as the SDG 7,8,9,10,11,13,17, Agenda 2063 and Paris Agreement actions (mitigation and adaptation)   Comprehensive alignment with continental and global development frameworks supporting affordable clean energy (SDG 7), sustainable industrialization (SDG 9), climate action (SDG 13), and regional partnerships (SDG 17)

TECHNICAL DETAILS	
<b>Project Description</b>	The Luapula River HPP project aims to develop and promote investment in the exploitation of the hydropower potential on the Luapula River, a shared river and natural border between the DRC and Zambia   Multi-site hydropower development on shared Luapula River supporting regional energy integration, mining sector development, and transboundary cooperation
<b>Technology &amp; Design</b>	To be advised by the feasibility study outcome   Technical specifications and design parameters to be determined through completion of ongoing feasibility studies and technical assessments
<b>Capacity/Size</b>	789 MW   Large-scale generation capacity contributing significantly to Southern African Power Pool regional energy market and supporting mining sector electricity demands
<b>Construction/Preparation Timeline</b>	2015: Inter-Utility MoU; 2019: Prefeasibility completion; 2021: ToR for Mumbotuta feasibility study; 2025: Ongoing funding requirements   Multi-phase preparation timeline with inter-utility cooperation framework, completed prefeasibility studies, and ongoing feasibility development

<b>Offtake Agreements</b>	National Electricity Company of DRC (SNEL), Zambia Electricity Supply Corporation (ZESCO) Limited   Bilateral offtake arrangements with national utilities ensuring power purchase agreements for sustained revenue generation
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<b>RISK MANAGEMENT</b>	
<b>Risk Assessment</b>	Construction and Forex Risks   Transboundary hydropower development risks including construction complexity, foreign exchange volatility, and cross-border coordination challenges
<b>Regulatory Risks</b>	Tariff path uncertainty   Regulatory framework risks requiring coordination between national energy regulators and SADC Protocol on Energy compliance
<b>Environmental and Social Safeguards</b>	Resettlement Action Plan (RAP) & Environmental Management Plan (EMP) Compliance with environmental and social impact regulations and community consultations   Comprehensive environmental and social safeguards framework ensuring compliance with international standards and community protection measures

<b>KEY STAKEHOLDERS</b>	
<b>Sponsors</b>	Government of DRC and Zambia   Bilateral government sponsorship providing policy support and regulatory framework for transboundary hydropower development
<b>Investors</b>	AfDB, MCDF   Development finance institutions including African Development Bank and Multi-Country Development Facility with NEPAD Infrastructure Project Preparation Facility support
<b>Implementation Support</b>	Southern African Power Pool (SAPP) coordination   Regional energy coordination through SAPP framework and AUDA-NEPAD technical support for transboundary infrastructure development
<b>Contractors &amp; Operators</b>	TBA   Engineering, procurement, and construction contractors to be determined through competitive procurement processes
<b>Legal and Financial Advisors</b>	TBA   Transaction advisory services to be appointed for legal structuring and financial arrangement development

<b>WAY FORWARD</b>	
<b>Investment Ask</b>	Mobilization of resources for feasibility studies - 2 million gap; Project Structuring - 1 million; Transaction Support &

	Financial Close - 1.0 Million   Immediate financing requirement of USD 2M for feasibility completion, USD 1M for project structuring, and USD 1M for transaction support
<b>Next Steps</b>	Feasibility Study   Completion of comprehensive feasibility studies and ESIA for all sites enabling progression to detailed design and financing arrangements
<b>Implementation Timeline</b>	Project Structuring 18-24 months; Transaction Support & Financial Close 24-30 months   Structured preparation and transaction timeline supporting investment readiness and financial close within 30 months
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