AU AIP WATER INVESTMENT SUMMIT: PROJECT SHOWCASE

PROGRAMME/ PROJECT OVERVIEW	
Project name	Noordoewer/Vioolsdrift Dam (NVD)
Location (Country, Region, Coordinates)	South Africa; Namibia, Southern Africa Noordoewer (Namibia)- 28.7155^{0}S; 17.61860E Vioolsdrift (South Africa)- 28.7707^{0}S; 17.6262^{0}E
Involved countries (if regional)	Republic of South Africa; Republic of Namibia
Sub-Sector (Water Supply, Sanitation, Irrigation, Flood Management.)	Re-regulation Storage, Orange River System Yield Sustainability, Irrigation, Environmental Water Requirements etc.
Project description (Goals and expected outcomes)	(a) Noordoewer/Vioolsdrift Dam (used to compensate for the Polihali Dam impact on the ORP and for re-regulation of the flow for the Orange River Mouth) (b) Noordoewer/Vioolsdrift Dam (used as a resource to increase system yield) Namibia and South Africa share common water resource challenges in the Lower Orange River catchment. The two states agreed that appropriate water storage infrastructure development must ensure that the Lower Orange River is not negatively impacted by current and future upstream developments such as Lesotho Highlands Water Project 2 (LHWP 2) and that the river system continues to sustainably supply the long-term needs of water users.
Technological details/ innovation	The NVD Dam is a bilateral transboundary project being jointly developed by Namibia and South Africa. It will help mitigate the impacts of the development of the Lesotho Highlands Water Project Phase 2 (LHWP 2), supporting the sustainability & benefits from the upstream project as well.
Governance improvements / innovation	The Permanent Water Commission of Namibia and South Africa provides oversight for the study, through a dedicated and more operational Study Management Committee (SMC), composed of technical officials from both countries. The ORASECOM Secretariat is the Executing Agency for the Bridging Feasibility Study.
IMPLEMENTATION & KEY PLAYERS	
Lead institution	Permanent Water Commission (PWC) Namibia and South Africa
Implementing agent(s)	ORASECOM Secretariat
Sponsors / Investors / Contractors / Advisors	Government of South Africa, Government of Namibia, ORASECOM Secretariat, African Development Bank
PROJECT TIMELINE & DEVELOPMENT STAGE	
Year of preparation, estimated start / end date	10th Year, 2015-- 2027
Current development stage	Bridging Feasibility Study
PROJECT RATIONALE & STRATEGIC IMPORTANCE	
Alignment with national/regional plans, SDGs, Agenda 2063	Aligned to **SDG Target 6.1**; by 2030 achieve universal and equitable access to safe & affordable drinking water for all **indicator 6.1.1** proportion of population using safely managed drinking water services; **Target 6.4**; by 2030 substantially increase water-use efficiency across all sectors & ensure sustainable withdrawals & supply of freshwater to address water scarcity & substantially reduce the number of people suffering from water scarcity; **indicator 6.4.1** change in water use efficiency over time, **indicator 6.4.2** level of water stress; fresh water withdrawal as a proportion of available freshwater resources; **Target 6.5** ,by 2030, implement integrated water resources management at all levels including through transboundary cooperation as appropriate; **indicator 6.5.1** degree of water resources management; **indicator 6.5.2** proportion of transboundary basin area with an operational arrangement for water cooperation; **Target 6.6** by 2020, protect and restore water-related ecosystems including mountains, forests, wetlands, rivers, aquifers & lakes; indicator **6.6.1** change in the extent of water-related ecosystems over time

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Contribution to NDC's and alignment with NAPs / Adaptation and Mitigation measures	Relevant—integrated water resources management & water infrastructure development, maintenance & rehabilitation are measures & actions supportive of agriculture and food security (for the Namibia NDC, 2023). Relevant, South Africa (INDC 2021); enhance water security; effectively deploy flood protection measures, & hydro-metrological monitoring systems.
Paradigm shift potential (scalability, replicability, policy or behaviour change)	Bilateral project being jointly developed by Namibia & South Africa. Potential to extend cooperation to other aspects of water security & climate change
FINANCIAL & INVESTMENT DETAILS	
Total project cost, currency	231,000,000 USD Capital Costs 680,000 USD / annum Operational Costs
Funding already raised (amount & sources)	1,000,000 USD (Bridging Feasibility Study); Governments Namibia & RSA
Proposed revenue model	
Financial metrics (IRR, Payback Period, DSCR, NPV) available? Y/N, date	URV 3.43 Rand /m^3 PV R Millions 4,217 PV Water million m^3 1,230
INVESTMENT ASK & WAY FORWARD	
Remaining investment required: project component & type (Loan/Equity/Grant/Guarantee/insurance)	1,000,000 USD Bridging Feasibility Study (preparation) Grant
Opportunity bundling with other projects (Y/N)	Yes
Next steps	Complete Bridging Feasibility Study and ESIA
TARGET GROUPS & SOCIAL IMPACT	
Direct beneficiary population per project component (if available, please provide estimated by income status, gender, ethnicity and/or other status, & numbers of each)	Projected positive impact on the regional & local economies, during construction (short term), operation & refurbishment (long term) phases. Dam will stimulate business & human capital development & assist in raising living standards as the benefits of implementing the NVD (from agriculture and water supply) outweigh the expected cost
Social & gender impact assess, (Y/N, date)	
Job creation estimate / local economic benefit assessment (Y/N, date)	
SUSTAINABILITY & ENVIRONMENTAL ANALYSIS	
Environmental compliance & climate assessment (Y/N, date)	Yes (2020)
Environmental impact assessment (Y/N, date)	Yes (2020)
ESG performance (Y/N, date)	Yes (2020)
Safeguards & community engagement (Y/N,	Yes (2020)
RISK MANAGEMENT	
Main risks & mitigation measures (Political, Legal, etc)	Risks: Environmental (fish migration & sedimentation, deterioration of the estuary. The Bridging Feasibility Study is investigating further scenarios to improve environmental classification of the RAMSAR classified Estuary Site
Constraints or bottlenecks to finance	None
CONTACT INFORMATION	
AIP Secretariat	info@aipwater.org