

AU-AIP AFRICA WATER INVESTMENT SUMMIT 2025

13 - 15 August 2025
Cape Town, South Africa



AU AIP WATER INVESTMENT SUMMIT: PROJECT SHOWCASE

PROGRAMME/ PROJECT OVERVIEW	
Project name	Kirehe Water Supply Project
Location (Country, Region, Coordinates)	Rwanda/Eastern Province/Kirehe District
Involved countries (if regional)	No other country involved in this project
Sub-Sector (Water Supply, Sanitation, Irrigation, Flood Management.)	Water Supply
Project description (Goals and expected outcomes)	<p>The project aims to increase access to climate-resilient, safe drinking water and sanitation in Kirehe District, supporting SDG 6. Key benefits include full coverage for residents, institutions, reduced gender disparity, fewer school dropouts, and improved public health.</p> <p>The expected outcomes are:</p> <ul style="list-style-type: none"> - 100% water service coverage - Improved institutional access (schools, hospitals, etc.) - Increased household connections - Reduced waterborne diseases. - Enhanced climate resilience
Technological details/ innovation	<p>Technological details: The adopted technology for water treatment plant is conventional treatment process:</p> <ul style="list-style-type: none"> - Water Source: Akagera River (onshore intake) - Treatment Process: Conventional WTP using SEDTAIL process (plate settlers + deep bed filtration) - Materials: Concrete civil works, stainless steel, PVC for sedimentation tubes, HDPE & ductile iron pipes - Energy Solution: Hybrid system using solar and national grid power. - Network: Designed for scalability & future private connections, remote control and monitoring <p>Innovation:</p> <ul style="list-style-type: none"> - Climate-smart energy with solar integration in operations - Modular WTP and infrastructure design allowing future expansion. - Inclusion of household connections (previously excluded)
Governance improvements / innovation	The project is in line with national flagship and priorities such as National water policy, NST2, VISION 2050 and the project implementer is WASAC Group Ltd and project beneficiary is Kirehe District. Funding the project passes

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	through the ministry of finance (MINECOFIN). Key project Stakeholders: RWB (abstraction), RDB (EIA), REMA (audit), REG (electricity), District (local permits, beneficiary), WASAC Utility Ltd (O&M)
IMPLEMENTATION & KEY PLAYERS	
Lead institution	Ministry of Infrastructure
Implementing agent(s)	WASAC Group Ltd
Sponsors / Investors / Contractors / Advisors	African Development Bank who funded studies and SARI CONSULTING LTD in joint venture with SGAPI as the consultant who carried out feasibility studies and detailed designs
PROJECT TIMELINE and DEVELOPMENT STAGE	
Year of preparation, estimated start & end dates	- Feasibility study & Detailed Design Completed: March 2024 - Construction Period: Jan 2026 – June 2029
Current development stage	Feasibility studies and detailed designed are completed
PROJECT RATIONALE AND STRATEGIC IMPORTANCE	
Alignment with national/regional plans, SDGs, Agenda 2063	Alignment with Policies: - National Water Policy: Access for all by 2029 - SDG 6: Universal access to Clean water and sanitation - Agenda 2063 / NST2: Inclusive and sustainable growth and development.
Contribution to NDC's and alignment with NAPs / Adaptation and Mitigation measures	NDC/NAP Alignment: - Mitigation: Reduced emissions via through solar-powered operations - Adaptation: Improved water security and health resilience.
Paradigm shift potential (scalability, replicability, policy or behavior change)	Scalability: The intake, treatment, and distribution systems are designed to be expandable and upgradable to meet future water demand, increased private connections and technological advancements.
FINANCIAL & INVESTMENT DETAILS	
Total project cost, currency	The project is estimated to 46 million of USD
Funding already raised (amount & sources)	Funds Raised: USD 500,070 (AfDB for studies)
Proposed revenue model	Water Tariff set by the Rwanda Utility Regulation Agency
Financial metrics (IRR, Payback Period, DSCR, NPV) available? Y/N, date	IRR= 11.42%, Payback Period= 50 years inclusive of the Grace Period, DSCR=3%, NPV= USD 382,383
Economic performance (Benefit-Cost	Benefit-Cost Ratio=1.25, date: March 2024

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Ratio) Y/N, date	
INVESTMENT ASK & WAY FORWARD	
Remaining investment required: project component & type (Loan/Equity/Grant/Guarantee/insurance)	Remaining investment required is estimated to USD 46 million. This investment is needed for construction of the project. The investment type will be loan or grant depending on what will be available.
Opportunity for bundling with other projects (Y/N, date)	Yes
Next steps	Mobilize funds and begin construction
TARGET GROUPS & SOCIAL IMPACT	
<u>Direct beneficiary</u> population per project component (if available, please provide estimated by income status, gender, ethnicity and/or other status, and numbers of each)	The estimated direct beneficiaries are 867,173 people.
Social & gender impact assessment (Y/N, date)	Yes. March 2024
Job creation estimate / local economic benefit assessment (Y/N, date)	Yes. March 2024 Around 22,000 jobs for the casuals in total. Also, the project will hire a team of supervisors, water engineers, welders, and other technicians estimated to 30 staff.
SUSTAINABILITY AND ENVIRONMENTAL ANALYSIS	
Environmental compliance & climate assessment (Y/N, date)	Yes. March 2024
Environmental impact assessment (Y/N, date)	Yes. March 2024
ESG performance (Y/N, date)	Yes. March 2024
Safeguards & community engagement (Y/N, date)	Yes. March 2024
RISK MANAGEMENT	
Main risks & mitigation measures (Political, Legal, etc)	Akagera River pollution from activities done in its catchment. This mitigate this risk; the catchment protection activity will be integrated within the project activities.
Constraints or bottlenecks to finance	Limited domestic budget to implement the project.
CONTACT INFORMATION	
AIP Secretariat	info@aipwater.org