

# 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	Bugesera Faecal Sludge Treatment Plant (FSTP)
Location (Country, Region, Coordinates)	Bugesera District, Eastern Province, Rwanda
Involved countries (if regional)	Rwanda
Sub-Sector (Water Supply, Sanitation, Irrigation, Flood Management...)	Sanitation
Project description (Goals and expected outcomes)	<p><b>Goals:</b> To provide inclusive, safe, and sustainable sanitation services in Bugesera district and to improve healthy living conditions, protect environment, and enhance sustainable urban growth.</p> <p><b>Expected Outcomes:</b></p> <ul style="list-style-type: none"> <li>• 100% access to safe and sustainable faecal sludge management (FSM) in Bugesera district</li> <li>• Elimination of illegal sludge dumping into rivers, fields, and drainage systems</li> <li>• Improved climate resilience</li> <li>• Improved sanitation in schools, health centers, and commercial areas and Reduction in waterborne diseases</li> </ul>
Technological details/ innovation	<p><b>Technology:</b></p> <ul style="list-style-type: none"> <li>• Faecal sludge is transported by vacuum truck from septic tank and latrines to FSTP</li> <li>• Combination of aerobic and anaerobic treatment for sludge and leachate treatment</li> <li>• Use of local, low-carbon materials for process of screening, Imhoff tanks, drying beds, storage, and constructed wetlands.</li> <li>• The treatment process is a gravity-based method, no electricity</li> <li>• Leachate treated through anaerobic baffled reactor and planted vertical filter (carbon sink).</li> </ul> <p><b>Innovation:</b></p> <ul style="list-style-type: none"> <li>• Solar energy used for lighting and facility management.</li> <li>• Public–Private Partnerships (PPPs) for long-term service delivery and cost recovery</li> </ul>
Governance improvements / innovation	<ul style="list-style-type: none"> <li>• Aligned with Rwanda's National Water and Sanitation Policy, NST2, and Vision 2050</li> <li>• Implemented by WASAC Development (SPIU), under WASAC Group Ltd</li> <li>• Fund managed through Ministry of Finance and Economic Planning (MINECOFIN)</li> </ul> <p><b>Key Stakeholders:</b></p>

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	Bugesera District (land, permits, mobilization), RDB & REMA (ESIA certification, environmental compliance), REG (electricity provision) and the Project to be operated by WASAC Utility upon completion.
<b>IMPLEMENTATION &amp; KEY PLAYERS</b>	
Lead institution	Ministry of Infrastructure
Implementing agent(s)	WASAC GROUP LTD
Sponsors / Investors / Contractors / Advisors	<ul style="list-style-type: none"> <li>The sponsor: AfDB for feasibility study.</li> <li>The consultant for the study is JV STUDI INTERNATIONAL/IDEACONSULT/LANDMARK</li> </ul>
<b>PROJECT TIMELINE &amp; DEVELOPMENT STAGE</b>	
Year of preparation, estimated start & end dates	<ul style="list-style-type: none"> <li>Feasibility &amp; Design Completed: <b>May 2023</b></li> <li>Construction Start (Planned): <b>January 2026</b></li> <li>Construction End (Planned): <b>January 2028</b></li> </ul>
Current development stage	Detailed engineering design was completed
<b>PROJECT RATIONALE &amp; STRATEGIC IMPORTANCE</b>	
Alignment with national/regional plans, SDGs, Agenda 2063	<p><b>National Policy Alignment:</b></p> <ul style="list-style-type: none"> <li>National Water and Sanitation Policy and NST2</li> </ul> <p><b>Alignment with Agenda 2063</b></p> <ul style="list-style-type: none"> <li>Goal 1: High quality of life for all</li> <li>Goal 7: Sustainable and climate resilient communities</li> </ul> <p><b>SDG Alignment:</b></p> <ul style="list-style-type: none"> <li>SDG 6.2 – Universal sanitation</li> <li>SDG 6.3 – Waste treatment and reuse</li> </ul>
Contribution to NDC's and alignment with NAPs / Adaptation and Mitigation measures	<ul style="list-style-type: none"> <li>Fully aligned with Rwanda's NDCs and NAPs</li> <li>Enhances public health, environmental protection, and urban resilience.</li> <li>Low-carbon treatment technologies</li> <li>Supports FSM in informal and formal areas.</li> </ul>
Paradigm shift potential (scalability, replicability, policy or behaviour change)	<ul style="list-style-type: none"> <li><b>Scalability:</b> Suitable for Bugesera's urban expansion</li> <li><b>Replicability:</b> Can easily be adopted across other districts</li> <li><b>Policy Shift:</b> National focus now includes FSM, enabling private sector roles and compliance</li> </ul>
<b>FINANCIAL &amp; INVESTMENT DETAILS</b>	
Total project cost, currency	The project cost is USD 5.2 million
Funding already raised (amount & sources)	500,000 USD for Study, source: AfDB
Proposed revenue model	Tariff set by government
Financial metrics (IRR, Payback Period, DSCR, NPV) available? Y/N, date	IRR is 10.6, NPV is 917,799, The payback period is 15 years and DSCR is 8%
Economic performance (Benefit-Cost	Yes, 1.73

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Ratio) Y/N, date	
<b>INVESTMENT ASK &amp; WAY FORWARD</b>	
Remaining investment required: project component & type (Loan/Equity/Grant/Guarantee/insurance)	Remaining investment required is estimated to 5.2million of USD for construction. The investment type will be loan or grant depending on what will be available.
Opportunity for bundling with other projects (Y/N, date)	Yes, Solid waste management Landfill including
Next steps	Secure financing for construction and proceed with implementation.
<b>TARGET GROUPS &amp; SOCIAL IMPACT</b>	
Direct beneficiary population per project component (if available, please provide estimated by income status, gender, ethnicity and/or other status, and numbers of each)	<ul style="list-style-type: none"> <li>• <b>Target Population:</b> 551,103 (49.7% male, 50.3% female), <b>Employment Benefits:</b> Jobs created during construction and operation.</li> <li>• <b>Other Beneficiaries:</b> Bugesera International Airport, schools, hotels, and health facilities</li> </ul>
Social & gender impact assessment (Y/N, date)	Yes, May 2023
Job creation estimate / local economic benefit assessment (Y/N, date)	Yes, May 2023, about 8,000 employments for casual workers with additionally, the project will employ key staff around 15 staff
<b>SUSTAINABILITY &amp; ENVIRONMENTAL ANALYSIS</b>	
Environmental compliance & climate assessment (Y/N, date)	Yes, May 2023Yes
Environmental impact assessment (Y/N, date)	Yes, May 2023
ESG performance (Y/N, date)	Yes, May 2023
Safeguards & community engagement (Y/N, date)	Yes, May 2023
<b>RISK MANAGEMENT</b>	
Main risks & mitigation measures (Political, Legal, etc)	Risks: Irregular faecal sludge emptying that may lower plant efficiency. Mitigation <ul style="list-style-type: none"> <li>• Stronger regulation and enforcement</li> <li>• Existing FSM guidelines and frameworks</li> </ul>
Constraints or bottlenecks to finance	Domestic resource constraint to implement the project
<b>CONTACT INFORMATION</b>	
AIP Secretariat	<a href="mailto:info@aipwater.org">info@aipwater.org</a>