



EFFECTIVE AND SUSTAINABLE CLEAN WATER ACCESS IN SUB-SAHARAN AFRICA

PROJECT OUTLINE - FEB 2024

 DevvStream

eWATER
s e r v i c e s

This Project Proudly Supports the Following UN Sustainable Development Goals



About the Project Proponent

eWATERservices is a UK-based, private water operator providing 24/7 access to clean water to over 200,000 people in Sub-Saharan Africa since 2015. DevvStream has partnered with eWATER as off taker partner to accelerate access to clean water across Sub-Saharan Africa.

Using proprietary smart technology and local operational excellence, eWATER installs and maintains water systems serving the poorest communities. Using a custom-built Pre-Payment Smart Taps connected through the Internet of Things (IoT), eWATER’s cloud-based revenue management system; the IoT maintenance diagnostics and local operational excellence, eWATER ensures that the water keeps flowing.

Consumers purchase eWATER credit through mobile money, only paying for what they use. eWATER automatically tracks every litre dispensed and every dollar spent to ensure transparency and sustainability.

Over the past 8 years, eWATER has installed Smart Taps and water systems across 4 countries in Sub-Saharan Africa, the oldest of which have now been running since 2017.



We are NOT A CHARITY

We are a SUSTAINABLE SCALABLE SOLUTION

Learn more at: <http://www.ewater.services>

Partnerships & Awards



Project Activities & Impact

The project consists in the installation of smart water taps accessible to the public in rural villages across Tanzania, The Gambia, and Kenya.

Water Access

This initiative ensures that, for each smart water tap, up to 50 families have immediate access to clean water around the clock, perpetually. The project boasts a remarkable 90% reduction in water waste, saving an impressive 950 liters of water each day. Impacts:

- **Immediate Clean Water Access:** The project addresses a fundamental need by providing a reliable source of clean water, enhancing the quality of life for families involved.
- **Water Conservation:** The substantial reduction in water waste not only benefits the participating families but also contributes to sustainable water management and conservation efforts.

Avoided Deforestation

By obviating the need to burn wood and charcoal for boiling water from contaminated sources, this initiative annually saves an average of 100 tonnes of CO2

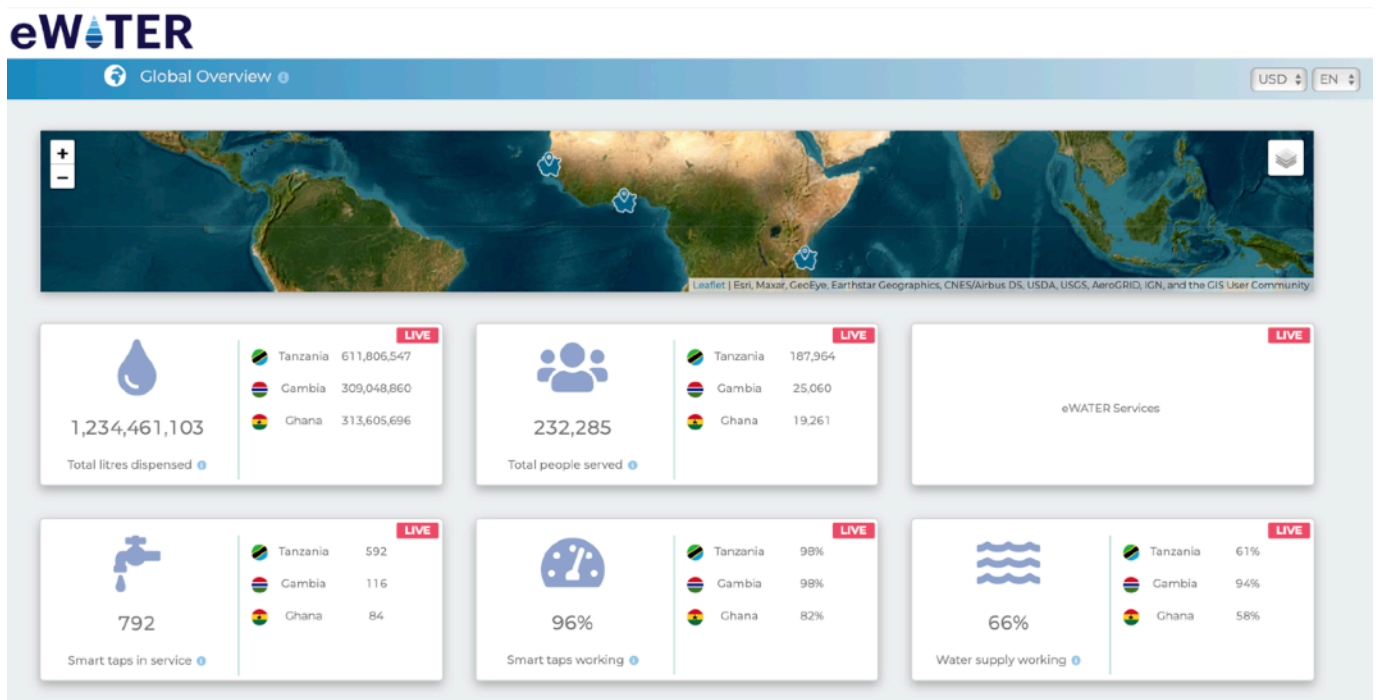
emissions per smart water tap, making a tangible impact on environmental conservation. Impact:

- **Carbon Emission Reduction:** The project plays a crucial role in mitigating climate change by preventing the release of significant amounts of carbon dioxide into the atmosphere, contributing to the preservation of biodiversity and ecosystems.

Women’s Empowerment

This initiative has a transformative effect on the lives of girls within the community. It reduces the time spent on water collection from 3-6 hours to just 10 minutes, facilitating a positive domino effect on education and health. Impacts:

- **Education Opportunities:** By cutting down the time spent collecting water, particularly for girls, the initiative increases school attendance by 15%. On average, this translates to an additional 11 girls being able to attend school per tap.
- **Health Improvements:** Eliminating fatal water-borne diseases, such as cholera, typhoid, and diarrhea, has a profound impact on the overall health and well-being of the community. This can positively affect up to 80% of the community, reducing the burden of preventable diseases.



About the Offset Project

eWATER has developed a combined program for VERs, Water Benefit Certificates (WBCs) and W+ credits generated by safe and efficient water delivery to rural communities across sub-Saharan Africa. The offset program is intended to be implemented by eWATER and its regional partners in phases, covering multiple countries across the region.

The first activity consist on the avoidance of deforestation activities when local communities lear local forests to boil water for drinking and cooking purposes. The second is the delivery of safe and clean drinking water to local communities. These two activities are recorded under a single project under the Gold Standard Registry. The selected Validation/ Verificartion Body (VVB) is Earthood, a recognized entity with extensive expertise in these areas as well as the jurisdictions where the activities will be implemented.

The third activity is the social benefits generated as a result of the previous activities in the form of women's empowerment via time savings and health benefits. This activity will be developed in the near future as its standalone project under the W+ Standard from WOCAN.



Earthood





How Credits Make It Happen

The proceeds from the sale of VERs, WBCs and W+ credits will be utilized to cover the capital and operational costs associated with the installation and upkeep of water taps and related infrastructure.

Although eWATER levies a nominal fee for water delivery to end users, these charges alone are inadequate to ensure the long-term financial sustainability of these initiatives. The additional revenue generated will not only contribute to the maintenance and expansion of existing water taps but also adhere to the W+ standard by allocating 20% of the W+ credit revenue directly to women's organizations in each project location.

Key Project Information

Offset Project Owner	eWATERSERVICES Ltd.		
Coordinating, Managing Entity (CME)	eWATERSERVICES Ltd.		
Geographical Location	Sub-Saharan Africa: The Gambia and Tanzania. Kenya currently under development.		
Project Type	Safe drinking water		
Project Approach	Bundled project		
Credit Units	Verified Carbon Units (VCUs)	Water Benefit Certificates (WBCs)	W+ Credits
Program	Gold Standard		WOCAN
Registry	Impact Registry		W+ Registry
Quantification Methodology	Methodology For Emission Reductions from Safe Drinking Water Supply	Gold Standard Methodology for Accreditation of Water Benefit Certificates	W+ Standard
Validation/Verification Body (VVB)	Earthood		WOCAN
Program Start	January 1st, 2022	January 1st, 2022	Est. January 1st, 2022
Crediting Period	5+5+5 (15 years)	7 years	One time per water tap

Project Co-Benefits

<p>Economic Co-Benefits</p>	<p>eWATER’s program contributes to economic development in several ways. By providing reliable access to clean water, it supports local economies by improving productivity and livelihood opportunities. Access to water taps enables communities to engage in income-generating activities such as agriculture, small-scale businesses, and livestock rearing.</p> <p>Additionally, the program creates employment opportunities through the installation, operation, and maintenance of water infrastructure, benefiting local labor markets, as well as through customer service and the selling of water credit.</p>
<p>Health Co-benefits</p>	<p>Access to clean water has a profound impact on public health. eWATER’s program helps reduce waterborne diseases and improves overall community health. By providing safe drinking water sources, it minimizes the risk of waterborne illnesses such as diarrhea, cholera, and typhoid.</p> <p>Access to clean water also promotes proper hygiene practices, including handwashing, leading to reduced transmission of diseases and improved overall sanitation conditions.</p>
<p>Educational Co-benefits</p>	<p>The availability of clean water positively influences education outcomes. eWater's program plays a crucial role in facilitating access to safe water for educational institutions. With nearby water taps, schools and educational facilities can ensure adequate drinking water supply for students and staff. This helps create a conducive learning environment, reduces absenteeism due to water-related illnesses, and promotes regular attendance and educational attainment.</p>

Alignment to iCVMC Core Carbon Principles (CCPs)

The eWATER program aligns with the Core Carbon Principles (CCPs) by adhering to rigorous standards and independent verification processes for the generation of VERs (Verified Emission Reductions), Water Benefit Certificates (WBCs), and W+ credits.

Environmental Integrity

The eWATER program ensures environmental integrity by generating VERs, WBCs and W+ credits under the Gold Standard and W+ Standard, respectively. These standards have robust criteria for emissions reductions, sustainable development, and co-benefits. By following these standards, eWATER maintains a high level of environmental integrity in its carbon, water, and gender-related initiatives.

Independent Verification

The VERs, WBCs, and W+ credits generated by the eWATER program undergo independent verification by accredited verifiers. This verification process ensures transparency, credibility, and accountability. Independent verification confirms that the emission reductions, water benefits, and gender co-benefits claimed by eWATER align with the established standards, providing confidence to stakeholders and market participants.

Sustainable Development

The eWATER program integrates sustainable development principles by using the generated revenue from VERs, WBCs, and W+ credits to support water infrastructure deployment and maintenance. This contributes to long-term social and economic benefits in project areas, aligning with the sustainable development goals of poverty alleviation, health improvement, and education enhancement.

Reporting and Verification

To meet the requirements of reporting and verification, the project undergoes third-party verification processes to confirm the accuracy of emission reduction calculations. Independent verifiers assess the project's emissions data, ensuring that the reported reductions align with the project's actual performance. Detailed annual reports are provided for transparency.

Avoidance of Double Counting

The project is designed to avoid double counting of emission reductions, water benefit certificates, and W+ credits. It adheres to recognized standards and guidelines, ensuring that credits generated are not counted by multiple parties. This helps maintain the integrity of the carbon offset market and ensures that emission reductions are accurately accounted for.

Social and Environmental Safeguards

The project considers and addresses social and environmental safeguards to mitigate potential negative impacts. It prioritizes sustainability, community engagement, and responsible deployment of charging stations, taking steps to minimize adverse effects and maximize positive outcomes for communities and the environment. Of significance, 20% of revenue generated by W+ credits is shared directly with women-led organizations in the communities where the project is implemented, ensuring a direct and tangible contribution to local communities.

Alignment to United Nation's Sustainable Development Goals (SDGs)

The eWater Sub-Saharan Clean Water Offset Project aligns with several United Nations Sustainable Development Goals (SDGs), contributing to a range of global sustainability objectives.



- Increased water consumption: By providing accessible and reliable water we can increase water consumption to reach the WHO aspiration of 20 litres per person per day, improving health for young and old alike.
- Ending deaths from waterborne diseases: 842,000 people are estimated to die each year from diarrhoea as a result of unsafe water. Many are children. We can end that.



- More female independence: Women and girls collect water in 80% of Sub-Saharan Africa households. With less far to walk, more time can be spent in education and work, giving women more financial freedom.
- Better physical wellbeing: Women suffer less spinal pain from carrying heavy loads and are less vulnerable to human and animal attacks at remote, distant taps.



- 24/7 access to clean, safe and drinkable water: One of the greatest causes of poverty in Africa is the lack of access to clean drinking water. We are changing that.
- Affordable water: Water costs as little as \$10 per year. To put this into perspective, people pay on average \$100 per year for kerosene and \$30 for mobile phones per year.
- Sustainable water management: Our technology enables us to remotely detect problems early and take measures to fix them quickly so that customers are not forced to return to contaminated water sources.
- Easy to buy: Customers purchase pay as you go credit from local shop keepers. Anyone with a basic phone and mobile money can buy credit for others too.
- Reliable technology: We monitor live data from each of our dispensers, but even with an intermittent 2G connection, no data is lost as the technology works offline too.



- Solar power: Our Smart Taps are powered by solar energy.
- Reducing carbon emissions: There is no longer a need to boil water, burning wood or charcoal to clean it.



- Reducing water wastage: No drop is wasted. Because our customers pay for their water, they value it and don't waste it. Also, our efficient system only dispenses the precise amount of water paid for, so there are no leakages.
- Reducing plastic: Customers refill and reuse receptacles at our Smart Taps.



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