YOUTH IN IWRM The Guyana Experience



Case Study





YOUTH IN IWRM – GUYANA

BACKGROUND

In recent years, the Government of Guyana has grappled with addressing the multifaceted challenges in its water sector, yielding varying levels of success. The Water and Sewerage Act (2002) introduced the potential for national water standards and the establishment of a National Water Council (NWC) to guide water resource management policies. However, for the past decade, the NWC has remained inactive, resulting in a lack of coordination among stakeholder entities impacting water quantity and quality. This situation has been attributed to traditional siloed approaches, concerns over jurisdictional "turf," a lack of engaging processes, and institutional fragmentation stemming from policies and legislation.

From August 2021 to August 2022, and funded by the **Small-scale Integrated Water Resources Management (IWRM) Grants** from the **Global Water Partnership-Caribbean (GWP-C**, **The University of Guyana** collaborated with the Faculty of Earth and Environmental Science (FEES) Eco Trust Society and the University of Geographical Society to brainstorm water resource management (WRM) issues in Guyana and implement the project's objectives.

ACTIONS TAKEN

In the pursuit of effectively engaging Youth in IWRM in Guyana, a comprehensive set of project activities were diligently planned and executed. Due to issues encountered during implementation regarding the establishment of Stakeholder Platform, the initial objectives of the project grant were changed. The amended objectives were implemented as follows. Firstly, the project commenced with a thorough assessment of stakeholders' awareness, knowledge, and understanding of the threats posed to water resources within the region. Through a purposive sample selection and a well-structured questionnaire survey, valuable insights were gathered, and this data served as the foundation for informed decision-making. The pilot survey, followed by necessary modifications, ensured the accuracy and relevance of the information gathered, highlighting the pressing need for Integrated Water Resources Management (IWRM) in Guyana.





Furthermore, a critical facet of this endeavour was the creation and distribution of **300 brochures** dedicated to IWRM. These brochures comprehensively outlined the definition, goals, principles, benefits, and implementation steps of IWRM, serving as a vital tool to raise awareness and foster a heightened sensitivity to the importance of effective IWRM practices.

Moreover, the establishment of the "Youth in IWRM" initiative under the **Faculty of Earth and Environmental Sciences** at the **University of Guyana** was a pivotal step in nurturing the next generation of water resource stewards. The subsequent development of a **Virtual Platform for Youth in IWRM** further amplified knowledge dissemination and engagement among the youth, solidifying Guyana's commitment to sustainable water resources management for generations to come.

OUTCOMES

The project achieved several noteworthy outcomes and results:

Stakeholder Assessment: A comprehensive assessment of the awareness, knowledge, and understanding of water resource threats in Guyana was conducted among 25 key stakeholders. This assessment served as the foundational knowledge base for subsequent project activities.

Brochure Production: Leveraging the insights gained from the stakeholder assessment, the project successfully prepared, produced, and distributed 300 informative brochures on Integrated Water Resources Management (IWRM). These brochures cover essential aspects of IWRM, including its definition, goals, principles, benefits, and implementation steps, contributing to enhanced public awareness.

Youth Engagement: A significant achievement was the establishment of a "Youth in IWRM" initiative under the Faculty of Earth and Environmental Sciences (FEES) at the University of Guyana. This initiative has actively engaged youth members from organizations such as Ecotrust Society and the Geographical Society, fostering a new generation of water resource advocates.







Virtual Platform Creation: A <u>virtual platform</u> dedicated to "Youth in IWRM" was successfully created. This online platform serves as a dynamic hub for knowledge sharing, collaborative efforts, and the dissemination of water-related information. It has allowed for the upload of water sampling results from various communities, enhancing data accessibility and public engagement.

Water Sampling Efforts: The project also facilitated the acquisition of several water sampling kits, enabling the youth members of the "Youth in IWRM" initiative to conduct water sampling activities in multiple communities. These efforts have resulted in the generation of simple analysis reports, which have been made available on the project's website, contributing to a greater understanding of local water quality.





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Sustainability: Importantly, the project has laid the groundwork for the sustainability of activities related to "Youth in IWRM" under the FEES at the University of Guyana. This commitment ensures that the project's positive impacts will endure beyond its initial phase, fostering long-term engagement and advocacy for effective water resources management in Guyana.

The project has delivered a multitude of benefits that underscore its significance in advancing water resources management in Guyana.

- It has facilitated stakeholders' access to vital information and enhanced their knowledge regarding Integrated Water Resources Management (IWRM) issues. This empowerment has fostered a deeper understanding of the critical challenges and opportunities in safeguarding water resources.
- 2. The project's provision of water quality data at the local level, which will be integrated into the national databases of the Guyana Environmental Protection Agency and the Guyana Water Incorporated, marks a crucial milestone. Collaboration between these entities and the project has been initiated, promising improved water resource management through the sharing of valuable data and information.





- The project has successfully generated and disseminated information on the status of drinking water quality and surface water quality in targeted communities, making this data readily accessible to local government and the general public for informed decision-making.
- 4. The project's commitment to a longitudinal study on water quality in these communities also holds promise for baseline metrics that will inform future collaborative governance efforts, spearheaded by the enthusiastic "Youth in IWRM."
- 5. The project's potential for scalability and replication throughout Guyana, with aspirations to secure funding for expansion, signifies its enduring impact on the nation's water resource management landscape. Ultimately, these tangible benefits emphasize the project's invaluable contributions to the sustainable management of Guyana's water resources.

LESSONS LEARNED

The project yielded valuable lessons learned, primarily centred around two key challenges. Firstly, the complexity of establishing a local chapter of the Global Water Partnership (GWP) within the project's given timeframe posed a significant hurdle. This experience underscores the importance of careful consideration and alignment of organizational processes with project timelines to ensure successful implementation.

Secondly, the unexpected initiation of a Caribbean Development Bank-funded project by the Government of Guyana, focused on reviewing institutional and governance arrangements for Integrated Water Resources Management (IWRM), highlighted the need for close coordination and communication with relevant stakeholders to avoid duplication of efforts and maximize the impact of resources.

Additionally, the following was observed:

- 1. Political support is required very early in the process to realise an objective that has national implications.
- 2. Flexibility in project implementation is critical to success, particularly when the governance landscape changes.
- 3. Young people are very creative and visionary and should play an important role in IWRM related activities.
- 4. Stakeholder support is critical for project sustainability.





These lessons emphasize the importance of adaptability and proactive engagement with external developments when executing water resource management projects.

The actions taken to address the identified problems included:

- 1. **Brainstorming Session**: A brainstorming session was organized with members of Ecotrust and the Geographical Society to discuss their interest in and ideas for the establishment of "Youth in IWRM" and the creation of a Virtual Platform. This step aimed to secure support and input from the students, aligning project activities with their engagement and insights.
- 2. **Execution of Amended Concept Note**: Following the students' endorsement and involvement, the project proceeded with the execution of specific activities outlined in the amended Concept Note. This ensured that the project remained adaptable and responsive to the evolving needs and interests of the youth.
- 3. **Hand Over Ceremony**: To guarantee institutional support and sustainability, a Hand Over Ceremony was organized. During this event, remarks were delivered by key stakeholders, including the Vice Chancellor of the University of Guyana (UG), the Executive Director of the Environmental Protection Agency, and representatives from the Meteorological Service unit of the Ministry of Agriculture and Guyana Water Incorporated. These remarks underscored the commitment of various institutions to the project's long-term success and impact.

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