

Early Warning System

GCF-FP192

The R's (Reduce, Reuse and Recycle) for Climate Resilience Wastewater Systems in Barbados (3R-CReWS)

The R's (Reduce, Reuse and Recycle) for Climate Resilience Wastewater Systems in Barbados (3R-CReWS)

Quick Facts

Countries	Barbados
Financial Institutions	Green Climate Fund (GCF)
Status	Approved
Bank Risk Rating	B
Voting Date	2022-10-20
Borrower	Caribbean Community Climate Change Centre (CCCCC)
Sectors	Climate and Environment, Energy, Infrastructure, Water and Sanitation
Investment Type(s)	Grant
Investment Amount (USD)	$ 39.40 million
Grant Amount (USD)	$ 39.40 million
Project Cost (USD)	$ 50.00 million

Project Description

The 3R-CReWS project proposes to support Barbados' adaptation to water scarcity conditions that will be amplified by climate change, in addition to reducing its carbon footprint and GHG emissions, and serving as a practical example for the Caribbean for climate-resilient water and wastewater management, reuse of treated wastewater, and aquifer recharge through upgrading the wastewater treatment process to tertiary level. The project has 4 components:

- Component 1: Infrastructure to transform one of the water treatment plants into a tertiary treatment system, installation of systems to recover reclaimed water, installation of pipes, etc.
- Component 2: infrastructure to improve the climate resilience and carbon neutrality of the wastewater treatment system, through photovoltaic energy, energy efficiency and conservation equipment, and renewable bioenergy.
- Component 3: Creation of an enabling environment to achieve the required paradigm shift. This component will result in an improvement of the technical capacities of the water technical personnel.
- Component 4: Strengthening the enabling environment through legislative review and a focus on educating the public and private sector on the importance of wastewater treatment and addressing climate change issues affecting the water sector and enabling policies and laws.

Some expected results include:

- Upgrading the Bridgetown Wastewater Treatment Plant (BSTP) to treat wastewater to a tertiary water quality standard.
- Tertiary treated wastewater is available to supplement non-potable use
- Energy efficiency and renewable energy technologies are implemented
- Improved capacities of wastewater technical staff
- Strategic plan to guide replication of water treatment facilities along the West Coast
- Mechanisms developed/expanded to encourage the adoption of wastewater treatment and reuse applications by individuals and companies.
- Implementation of gender sensitive public awareness and education campaign

Investment Description

- Green Climate Fund (GCF)

Contact Information

Caribbean Community Climate Change Centre
3rd Floor, David L. McKoy Business Center
Bliss Parade, P.O. Box 563
Belmopan, Belize, Central America
Phone: +(501) 822-1094 or +(501) 822-1104
Fax: +(501) 822-1365

General inquiries
For general inquiries please contact info@caribbeanclimate.bz.

GCF Headquarters
G-Tower, Songdo Business District
175 Art center-daero
Yeonsu-gu, Incheon 22004
Republic of Korea
EMAIL CONTACT FORM

Independent Redress Mechanism:

https://irm.greenclimate.fund/case-register/file-complaint

Bank Documents

- Environmental and social safeguards reports
- Funding Proposal