

Integrated Water Resources Management (IWRM) Projects and Initiatives in the Caribbean

Title: Climate Change Adaptation Strategies for Water Resources and Human Livelihoods in the Coastal Zones of Small Island Developing States (CASCADE)

Organisation: The University of the West Indies, Sir Arthur Lewis Institute of Social and Economic Studies, St. Augustine Campus, Trinidad and Tobago

Aims and Objectives:

The research focus is to design and promote multi-stakeholder climate change adaptation in the water and sanitation sector in SIDS with an aim to improving human livelihoods.

The wider objective of CASCADE is to place SIDS further down the path of sustainable development.

Duration: Start Year: August 2012 Completion Year: July 2015

Additional Comments:

Estimated Cost (USD): \$600,000

Funding Source: European Union under the African, Caribbean and Pacific Group of States (ACP) Science and Technology Programme

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Key Words: Climate Change; Adaptation; Vulnerability; Water and Sanitation; Impact

Geographic Coverage: Two core cases St Vincent & the Grenadines and St Lucia; and two mirror cases Grenada and Mauritius.

Sectoral Focus: Environment and Water

Target Beneficiaries: The development of generalised adaptation strategies for water management in SIDS will facilitate the provision of a policy toolkit that can assist communities and public officials in other small island states with adaptation measures for the water sector.

Outputs:

A comprehensive vulnerability assessment framework will be developed to assess the livelihood impacts of climate change resulting from changes in freshwater systems and this framework will be applied to core Caribbean case studies. The results are applied to ‘mirror’ SIDS in the Caribbean and Indian Ocean. Generalised adaptation strategies for water management in SIDS are developed, with an emphasis on community-based risk reduction strategies, institutional strengthening and economic policy instruments aimed at achieving water security. Effective dialogue and the development of collaborative partnerships are facilitated among different stakeholders, including the water, tourism and agricultural sectors, coastal communities, civil society organizations and public officials. The attention of academia, policy makers and the public is focussed on the issues of water-related climate change impacts and the necessity for ‘no regrets’ adaptation policies, and the promotion of effective dialogue between these groups. Knowledge transfer is fostered between the developed (EU) and developing (Caribbean and Indian Ocean SIDS) world in conducting and applying climate-related water research

The achievement of a series of well-defined deliverables and milestones will result in the main CASCADE outputs that include:

- A Toolbox for Multi-Hazard Vulnerability Assessment;
- Detailed Community and Hazard Profiles for Climate-Related Threats to the Water and Sanitation Sector;
- Multi-Stakeholder Action Plans for Adaptation;
- Scientific Publication and Dissemination Products;
- Capacity Building and Best Practices.

Project Links and References:

<http://www2.sta.uwi.edu/cascade/>

<http://www.acp-st.eu/content/cascade-climate-change-adaptation-strategies-water-resources-and-human-livelihoods-coastal-z>

Global Water Partnership-Caribbean IWRM Projects and Initiatives Database

Impacts:

Information not available

Sustainability:

Information not available

Lessons for the Future:

Information not available

Opportunities Arising from the Project:

Information not available

Further Comments:

Information not available