

Outline of Presentation

- 1. Objectives
- 2. Dominica: A Quick Peek
- 3. Inventory of Dominica's Water Resources
- 4. Historical Overview of Water Management Efforts
- 5. Present Efforts at Managing Dominica's Water
- Constraints (Policy, Legislation, Institutional, Resources)
- Successes (IWRM Concepts and Principles; LBS Protocol)
- 7. The Future
- 8. Acknowledgements

OBJECTIVES

TO SHARE OUR EXPERIENCES AS A SMALL ISLAND DEVELOPING STATE (SIDS) IN THE AREA OF WATER RESOURCES MANAGEMENT AND TO PROMOTE EAST/WEST DIALOGUE







Basic Facts About Dominica

Area: 291 sq mi (754 sq km) – 15mile x 30mile

Highest Point on Land: 4,747 feet

Population: 72, 600

Per capita: US \$4,948.00 - GDP \$362 m



History: Former British and French Colony. - Gained

Political independence in 1978

Government:

Parliamentary Democracy; Prime Minister -Head of government; President- Head of State

Capital: Roseau ("Rozo")

Official Language: English (Creole - Patois)

DOMINICA

"NATURE ISLAND OF THE CARIBBEAN"





INVENTORY OF WATER RESOURCES

Rivers (365) Lakes & - 6 Waterfalls -15+ Groundwater Sea/Ocean (200 miles east/west) **Numerous Springs** Rainfall – variable mean average - 7500 in mountains to 1981 on coast







Managing the Country's Water Resources Policy

Government has always advocated maximizing the economic potential of the State's water resources, e.g. bulk & bottled water export.

No official, coherent Government policy on management of water resources.

Some work done in preparing a study on the water sector. (The EU has supported two institutional/policy study on Dominica's water sector)

Managing the Resource cont.

<u>Institutional Arrangements – Several Actors</u>

- Ministry for Water Resources (January 2010)
- Physical Planning Division: Development Control
- DOWASCO (Potable water & Sewerage)
- -Ministry of Health (Potable and Recreational)
- -Ministry of Agriculture: (Agriculture and Forestry)
- -Fisheries Division & Police (Marine Waters)
- -DOMLEC Hydro-power generation
 - * each institution has its statutory mandate

Water Demand & Use

43 independent water supply systems producing 10 million gallons per day

93.6 % of population have access to potable drinking water

Average Consumption

Domestic: 39 gallons/person/day – 24x7

(Except during times when river is in flood)

Agricultural – not available

Industrial: Electricity – data not available

40% of electricity generated through hydropower

Population see water as free gift from God, flowing unchecked in rivers

-GEF funded project - US \$112 (includes co-financing)



- -GEF \$14 m
- -Implementing Agencies: UNEP & UNDP
- -Executing Agencies: CEHI, UNEP CAR/RCU and UNOPS
- -Project Coordinating Unit at CEHI







Project Objective

To assist Caribbean Small Island Developing States to adopt an integrated approach to watershed and coastal areas management

Integrating Watershed and Coastal Areas Management Coastal Areas Management GEF

The overall objective of the project is "to strengthen the commitment and capacity of the participating countries to implement an integrated approach to the management of watersheds and coastal areas".

The long-term goal "is to enhance the capacity of the countries to plan and manage their aquatic resources and ecosystems on a sustainable basis".



- Component 1: Demonstration, Capture and Transfer of Best Practices
- Component 2: Development of IWCAM Process, Stress
 Reduction and Environmental Status Indicators
 Framework
- Component 3: Policy, Legislative and Institutional Reform for IWCAM
- Component 4: Regional and National Capacity Building and Sustainability for IWCAM
- Component 5: Project Management and Coordination

GEF/IWCAM Project Sites



9 in 8

Component I: Demonstration

Antigua: Mitigation of groundwater and coastal impacts from sewerage discharge from St. John's

Bahamas: Land and sea planning for water recharge protection and management in Andros

Bahamas: Marine waste management in Elizabeth Harbour in Exuma

Cuba: Application of IWCAM concepts at Cienfuegos Bay & Watershed

Dominican Republic: Mitigation of Impacts of Industrial wastes on the Lower Haina River Basin and Coasts.

Component I: Demonstration

Jamaica: An integrated approach to managing marine coastal and watershed resources of East – Central Portland.

St. Kitts/Nevis: Rehabilitation and management of the Basseterre Valley as a protection measure for the Underlying aquifer .

St. Lucia: Protecting and valuing watershed services and developing management incentives in the Fond D'or watershed area.

Trinidad & Tobago: Land-use planning and watershed restoration as part of a focused IWCAM Demonstration in the Courland watershed and Buccoo Reef area.

Activities in Non-Demo Countries

Component 2: Development of IWCAM Process, Stress Reduction and Environmental Status Indicators Framework

Conducted Hotspots Diagnostic Analyses
 (HSDA) at non-demo hotspots in each country.
 Roseau River

Component 4:

- Training in Community Based Resource
Assessment. (Training workshop for youth leaders and teachers)

Roadmap - IWRM

- Initiate the Process √
- Formation of a steering committee $\sqrt{}$
- Process management (team establishment) √
- ullet Stakeholder involvement plan and implementation $\sqrt{}$
- Communications, plan development and implementation
- Situational Analysis and IWRM plan framework √
- Vision statement and goals articulation $\sqrt{}$
- Evaluate IWRM plan options
- IWRM plan promotion, adoption and implementation





Progress Made re: IWRM -Dominica

Initiate the Process

Inception Workshop held (2007)

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First stakeholder meeting held at start

of consultancy

Steering Committee -

Multi-stakeholder Committee formed





Promoting LBS Protocol Hotspots Diagnostics





Examples of Sustainability

Cuba:

- Co-financing example. Were able to achieve much more than original planned. Activities to continue beyond life of project.
- MSc. Program Developed based on IWCAM concepts and principles
 Jamaica:
- Project completed way before deadline. Community mobilized. Central government onboard. Project concept and principles to replicate in another watershed. Work already started.

Examples of Sustainability

St. Lucia:

- Project activities completed well advance of schedule. Community has been mobilized.
- A private sector (NGO) formed to coordinated and managed activities related to the protection of rivers.

Lessons learnt

Power of "People Power". What ordinary people can do once they are empowered and resources become available

Role of communities in resource management once the applicable policies and legislative instruments are in place

Role of private sector as co-partners to the state

How development Assistance



Real ISSUES FOR CONSIDERATION

Inadequate Land-use Practices

- Housing
- Road Construction





Real ISSUES FOR CONSIDERATION

Agriculture Waste disposal





REAL ISSUES FOR CONSIDERATION

Water Pollution -

 Siltation of Streams and Coastline (Erosion/Loss of topsoil)





REAL ISSUES FOR CONSIDERATION

- * Tourism / Recreation
- * Natural Disasters (Hurricanes)





REAL Issues/Consideration

Deforestation Land slides

Quarrying







Challenges Ahead

Policy & Legislation

- Arrive at a consensus for adopting a far reaching all embracing policy on Integrated Water Resources Management
 - Enact relevant legislation in support of new policy

Institutional

- Capacity Building: Train human resource) for managing water resources of the country.
- •Establishing a central coordinating entity that would assume a regulatory function
- Resources

OPPORTUITIES FOR EAST -WEST CO-OPERATION (SIDS)

Sharing of experiences

Opportunities for exchange of technical assistance

Examine how each region can benefit from ongoing efforts in training of water sector managers. E.g Graduate Diploma in IWRM, Cuban MSc. Program.

Collaborate when making representation at international foras

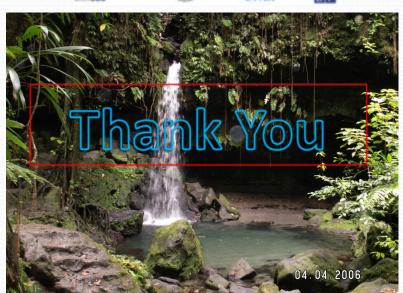
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Come See our region











