

PILOT PROGRAM FOR CLIMATE RESILIENCE

Summary - Project Approval Request

1. Country/Region:	Grenada/Caribbean Region	2. CIF Project ID#:	(Trustee will assign ID)
3. Project Title:	<i>Disaster Vulnerability and Climate Risk Reduction Project in Grenada</i>		
4. Type of PPCR Investment	<i>Private:</i>	<i>Public: X</i>	<i>Mixed:</i>
5. Funding Request (in USD million total) for Project:	<i>PPCR Concessional: US \$8.2 million</i>		<i>PPCR Grant: US \$8 million¹</i>
6. Approved Preparation Grant	<i>N/A</i>		<i>Date: N/A</i>
7. Implementing MDB:	<i>World Bank</i>		
8. Other MDB Involvement	<i>MDB: N/A</i>		<i>Type of Involvement: N/A</i>
9. National Project Focal Point:	<i>Ms. Margaret Belfon, Head, Project Coordination Unit (PCU) - mjbpcu@spiceisle.com</i>		
10. National Implementing Agency² for project:	<i>Project Coordination Unit housed within the Ministry of Finance, Planning, Economy, Energy and Cooperatives</i>		
11. MDB PPCR Focal Point and Project Task Team Leader (TTL):	<i>Headquarters-PPCR Focal Point: Kanta Kumari Rigaud (krigaud@worldbank.org)</i>		<i>TTL: Niels B. Holm-Nielsen (nholmnielsen@worldbank.org)</i>

¹ Includes US\$7 million for the Disaster Vulnerability and Climate Risk Reduction Project in Grenada and US\$1 million for the four TA activities.

² Can be Government agency or private sector firm

12. Program Description: Grenada's sustainable development depends on its ability to build climate resilience to existing and future climate-related vulnerabilities. Grenada's sustainable development will also depend on enabling the Government to better account for climate change and climate vulnerability in their development planning and policy making in order to avoid perpetuating the recreation of unacceptable vulnerability.

In order to improve climate resilience, the Disaster Vulnerability and Climate Risk Reduction Project (DVRP) in Grenada proposes a comprehensive package of infrastructure projects and technical assistance activities to be co-financed through a blend of International Development Association (IDA) and PPCR financing. The total envelop for the project in Grenada is US\$26.2 million (US\$16.2 million or 61% from CIF financing and US\$10 million or 39% from IDA financing). Support from PPCR and World Bank's IDA will provide Grenada with financial and technical assistance to reduce vulnerability to natural hazards and climate change impacts by climate proofing key infrastructure, increasing the capacity of the National Disaster Management Agency (NaDMA) to quickly respond to adverse natural events and improving the capacity of the Physical Planning Unit to conduct climate monitoring and hazard planning.

The DVRP also includes the four specific technical assistance (TA) activities that were designed as part of the Grenada's Strategic Program for Climate Resilience, and will be bundled into the project. These TA activities are: (i) Grenada Water Resources Assessment and Management Study; (ii) Preparation of a Roadmap for Coastal Zone Management in Grenada; (iii) Improving the Use of Data and GIS for Climate Change Adaptation in Grenada; and (iv) Preparation of a Project for Rehabilitation of the Bathway Sandstone Reef.

The DVRP in Grenada is part of the Regional Disaster Vulnerability and Climate Risk Reduction Program (RDVRP) in the Eastern Caribbean, which include two other countries, specifically Saint Lucia and Saint Vincent and the Grenadines. The RDVRP aims at measurably reducing vulnerability to natural hazards and climate change impacts in the Eastern Caribbean. The project in Grenada aims at measurably reducing vulnerability to natural hazards and climate change impacts in Grenada and in the Eastern Caribbean.

In order to achieve this, the program proposes four mutually reinforcing components, namely: 1) Prevention and Adaptation Investments; 2) Regional Platform for Hazard and Risk Evaluation, and Applications for Improved Decision making and Building Practices; 3) Emergency Response Contingent Credit; and 4) Project Management and Implementation Support. A brief description of each component is referenced below:

Component 1 - Prevention and Adaptation Investments. The participating countries would implement a broad spectrum of interventions aimed at building resilience in public buildings and infrastructure.

Component 2 - Regional Platforms for Hazard and Risk Evaluation, and Applications for Improved Decision making and Building Practices. The project would support regional efforts in the Eastern Caribbean to build capacity to conduct assessment of natural risks and integrate such knowledge into policy- and decision-making for development investments, disaster risk mitigation, climate change adaptation and disaster response planning across sectors.

Component 3 – Emergency Recovery and Rehabilitation Mechanism. Following an adverse natural event, and subject to a Government's declaration of emergency in accordance with national law and the submission of a recovery action plan satisfactory to the Association, a participating Government would be able to request the Association to re-categorize financing or provide additional financing to cover early recovery and rehabilitation costs.

Component 4 - Project Management and Implementation Support. Would provide institutional support and capacity development for project management and implementation.

Sectors and Themes: Multisectoral

13. Objective	
The project in Grenada aims at measurably reducing vulnerability to natural hazards and climate change impacts in Grenada and in the Eastern Caribbean.	
14. Expected Outcomes:	
Improved resilience of infrastructure (housing, schools, old age homes, water supply, bridges) to climatic shocks	
Restored and improved forestry resources	
Improved water resource management	
Improved coastal zone management	
Improvement of national and regional data and information exchange, particularly on climate hazards	
15. Key Results and Indicators for Success (consistent with PPCR results framework):	
Result	Indicator
Reduced risk for Grenada's population of failure of public buildings due to natural hazards or climate change impacts	<ul style="list-style-type: none"> • Number of daily users of public buildings structurally improved financed by the project • Reduction of number of user days of roads at decreased capacity due to floods, landslides, or structural failure.
Reduced vulnerability to climate change through the restoration and preservation of valuable forest resources through effective land use practices that also promote sustainable livelihoods, contribute to environmental sustainability and reduce poverty	<ul style="list-style-type: none"> • Development of nursery • Production and propagation of seedlings • Acreage restored or brought under forests • Forest roads upgraded
Improved water supply management	<ul style="list-style-type: none"> • Number of gallons increase of water storage capacity as a result of the project • Reduction of number of user days with less than full service of the national water system managed by NAWASA due to natural hazards or climate change impacts.
Improved capacity for dealing with CZM issues	<ul style="list-style-type: none"> • Systematic collection of data and information for CZM in place • Legislative and institutional framework for CZM in place; • Physical investment plan for CZM prepared
Improved use of data and GIS for climate change adaptation	<ul style="list-style-type: none"> • Number of government officials able to produce location-specific exposure maps • Percentage of public buildings geo-referenced in a national exposure database
16. Budget:	
Expenditures³	Amount (USD) - estimates
Consultants	US\$2.8 million
Equipment	US\$7.2 million
Workshops/seminars	US\$250,000
Travel/transportation	US\$100,000
Others (admin costs/operational costs) ⁴	US\$2 million

³ These expenditure categories may be adjusted during project preparation according to emerging needs.

⁴ Project Management and Implementation Support costs.

Contingencies (max. 10%)	Contingency costs (10%) are included as part of specific activities costs.	
Total Cost	US\$ 15.2 million	
Co-Financing ⁵ :	<i>Amount (USD million):</i>	<i>Type of contribution:</i>
• Government		
• MDB	US\$10 million	IDA Credit
• Private Sector		
• Others (please specify)		
Co-Financing Total	US\$10 million	
17. Project Timeframe:		
Expected Board/ approval date: June 23, 2011		
Expected Mid-Term review date: December 15, 2013		
Expected Project/Program closure date: December 31, 2016		
18. Role of other Partners involved in project/program⁶: The World Bank and other international partners have been actively engaged in initiatives designed to strengthen climate data management in the Caribbean region. As outlined in the broader Project Appraisal Document and complementary to donor partners, the PPCR grant will aim to improve data management and sharing capacity in Grenada and in the region. The project will include the transfer and capacity building in use of technology and human capacity for geospatial data management. This capacity building would allow for better integration with activities of regional technical agencies (such as: the OECS Secretariat, the Disaster Risk Reduction Center at the University of the West Indies, and the Caribbean Community Climate Change Center) to facilitate the collaboration on data between Grenada and regional technical agencies. Once installed, the respective regional technical agencies would be responsible for managing the regional climate data and models and assist Grenada in down-scaling regional climate data and related models.		
In addition, the proposed engagement, will build on the ongoing collaboration among OECS countries (and in particular, the sub-regional states) at the regional level. Linking with regional agencies (CDEMA, CCCCC, UWI, etc.), the project will build on on-going regional initiatives in respect to climate monitoring, hazard identification and monitoring, institutional strengthening and capacity building. Activities will include (i) data collection and establishment of data sharing protocols, (ii) capacity building for generating and interpreting risk assessments, (iii) development and sharing of risk assessment application for policy purposes, and (iv) critical infrastructure risk identifications.		

⁵ This includes: in-kind contributions (monetary value), MDB loan or grant, parallel financing, etc.

⁶ Other local, national and international partners to be involved in implementation of the project/program.

19. Implementation Arrangements (incl. procurement of goods and services): Procurement activities would be managed through the Project Coordination Unit (PCU). All contracting activities including bidding, contractor selection, and execution supervision would be managed through the PCU with the technical assistance of the participating line ministries. As needed, line ministries would provide technical support, particularly with respect to works projects. Line ministries would also provide technical documentation to support procurement activities and as needed, the PCU would engage the services of qualified specialists and engineers to assist with procurement and supervision. Participating ministries would provide technical staff to assist in contract supervision; however, the responsibility for the management of change orders and contract modifications would rest solely with the PCU.

During the procurement process, the PCU would convene such technical committees as necessary for the design, evaluation, and supervision of contracts to ensure the active participation of the beneficiary agency.

Procurement would be managed in accordance with the procurement thresholds identified in the project legal agreement and in accordance with applicable World Bank procurement requirements. The PCU in Grenada has several years of experience working with World Bank procedures and has demonstrated capacity in working within World Bank established policies and procedures. As execution proceeds, the PCU would evaluate its training needs and identify needed strengthening activities to be executed under Component 3 of the project.

Given the emphasis on works represented under the project portfolio, the Government would include civil engineering support within the PCU to provide technical assessments and overall technical quality assurance/quality control during works activities. This support may take the form of a contracted engineer to provide critical path inspections and engineering reviews of designs and related contract documentation.