

**PILOT PROGRAM FOR CLIMATE RESILIENCE**

**Summary - Project Approval Request**

<b>1. Country/Region:</b>	Saint Vincent and the Grenadines / Caribbean Region	<b>2. CIF Project ID#:</b>	(Trustee will assign ID)
<b>3. Project Title:</b>	<i>Disaster Vulnerability and Climate Risk Reduction Project in Saint Vincent and the Grenadines</i>		
<b>4. Type of PPCR Investment</b>	<i>Private:</i>	<i>Public: X</i>	<i>Mixed:</i>
<b>5. Funding Request (in USD million total) for Project:</b>	<i>PPCR Concessional: US \$3 million</i>		<i>PPCR Grant: US \$7 million</i>
<b>6. Approved Preparation Grant</b>	<i>N/A</i>		<i>Date: N/A</i>
<b>7. Implementing MDB:</b>	<i>World Bank</i>		
<b>8. Other MDB Involvement</b>	<i>MDB: N/A</i>		<i>Type of Involvement: N/A</i>
<b>9. National Project Focal Point:</b>	<i>Laura Anthony-Browne, Director of Planning, Ministry of Finance and Economic Planning - <a href="mailto:cenplan@vincysurf.com">cenplan@vincysurf.com</a></i>		
<b>10. National Implementing Agency<sup>1</sup> for project:</b>	<i>Central Planning Division's Public Sector Investment Program Management Unit (PSIPMU) housed within the Ministry of Finance and Economic Planning (MoFEP)</i>		
<b>11. MDB PPCR Focal Point and Project Task Team Leader (TTL):</b>	<i>Headquarters-PPCR Focal Point: Kanta Kumari Rigaud (<a href="mailto:krigaud@worldbank.org">krigaud@worldbank.org</a>)</i>		<i>TTL: Niels B. Holm-Nielsen (<a href="mailto:nholmnielsen@worldbank.org">nholmnielsen@worldbank.org</a>)</i>

<sup>1</sup> Can be Government agency or private sector firm

**12. Program Description:** Saint Vincent and the Grenadines' (SVG) sustainable development depends on its ability to build climate resilience to existing and future climate-related vulnerabilities. SVG'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 SVG 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 SVG is US\$20 million (US\$10 million or 50% from CIF financing and US\$10 million or 50% from IDA financing). Support from PPCR and World Bank's IDA will provide SVG with financial and technical assistance to reduce vulnerability to natural hazards and climate change impacts. The key to the approach adopted in the SVG SPCR and Investment Program is the development of three site-specific vulnerable areas (two watersheds and one island) that will pilot best practice interventions in watershed management, flood mitigation, legislation, advocacy, coastal zone management and climate proofing. The three pilot areas will then implement and test a broad spectrum of interventions to build resilience in these three vulnerable areas. They will be model comprehensive interventions, to be extended in future too all the Grenadine islands and remaining Saint Vincent Island watersheds.

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

In order to achieve this, the project 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 Recovery and Rehabilitation Mechanism.; and 4) Project Management and Implementation Support. A brief description of each component is referenced below:

**Component 1 - Prevention and Adaptation Investments.** Saint Vincent and the Grenadines 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 Saint Vincent and the Grenadines through 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, the Government would be able to request 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 SVG aims at measurably reducing vulnerability to natural hazards and climate change impacts in SVG and in the Eastern Caribbean.

### **14. Expected Outcomes:**

Reduced risk for SVG's population of failure of roads and bridges due to natural hazards or climate change impacts	
Improved flood mitigation measures	
Less Vulnerable Communities	
More Knowledgeable Decision-makers, Families and Children	
Improvement of national and regional data and information exchange, particularly on climate hazards	
Legislation and Enforcement enhanced (mainstreaming)	
Safer Coastal Areas	
Water resources conservation and management of watersheds	
<b>15. Key Results and Indicators for Success (consistent with PPCR results framework):</b>	
<b>Result</b>	<b>Indicator</b>
Reduced risk for SVG's population of failure of public buildings due to natural hazards or climate change impacts	<ul style="list-style-type: none"> <li>• Reduced risk for SVG's population of flooding in areas with flood mitigation financed by the project</li> <li>• Reduction of number of user days of roads at decreased capacity due to floods, landslides, or structural failure</li> </ul>
Strengthened Community Resilience	<ul style="list-style-type: none"> <li>• Increased ability of coastal communities to cope with climate hazards including extreme weather (incl. better prepared, provided with early warning, increased capability to recover).</li> <li>• <b>Measures:</b> Census data questions on vulnerability and resilience, decrease in economic and social losses post-disaster events, decreased loss of roads and bridges, damage to river banks, decreased loss of livelihoods, lower levels of overall community impacts from climate hazards, improved ability to cope with disaster events (social survey).</li> </ul>
Increased Socio-economic stability	<ul style="list-style-type: none"> <li>• Communities incur fewer losses, businesses are better prepared, visitors are better informed (marine and land-based tourists), environmental conservation is better managed by improved legislative frameworks, and enforcement achieves increased levels of success.</li> <li>• <b>Measures:</b> Damage and Loss Assessment indicates fewer losses in coastal areas, lower economic impacts (fewer loss of livelihoods), increased awareness of visitors (survey), improved environmental practices (water conservation, water recycling) on the Grenadines, improved water accessibility in the Grenadines, increased use of rainwater harvesting and storage in the island of Saint Vincent.</li> </ul>

Strengthened knowledge and awareness	<ul style="list-style-type: none"> <li>The implementation of a National program of public education and curriculum development in schools results in increased awareness of climate change and resilience that is exemplary in the Caribbean Region.</li> <li><b>Measures:</b> Curriculum active in all schools, teachers trained to deliver climate change and disaster reduction education, climate change information and materials available to schools and teachers, number of community leaders trained in Hurricane Preparedness, number of brochures and publications available to the general public on climate change impacts at community level, early warning system (EWS) installed, number of communities trained in EWS leadership. Responses to climate questions in the Census.</li> </ul>		
Gender sensitive disaster risk management designed and implemented	<ul style="list-style-type: none"> <li>Government actively develops a spirit of collaboration, cooperation and support, citizens recognize the Government is committed to climate change and a green, clean Saint Vincent and the Grenadines; Saint Vincent and the Grenadines becomes a model country in the Caribbean with the development of the three Pilot areas demonstrating all aspects of building resilience for families and communities.</li> <li><b>Measures:</b> Ministerial support measured by appointment of climate change focal point; number of businesses contributing to publications; number of hotels cooperating on Legislative change for coastal areas; number of communities and constituencies requesting support for building climate resilience; number of appearances in the media of climate issues.</li> </ul>		
Improved use of data and GIS for climate change adaptation	<ul style="list-style-type: none"> <li>Number of government officials able to produce location-specific exposure maps</li> <li>Percentage of public buildings geo-referenced in a national exposure database</li> </ul>		
<b>16. Budget:</b>			
<b>Expenditures<sup>2</sup></b>	<b>Amount (USD) - estimates</b>		
Consultants	\$4,101,500		
Works	\$4,249,000		
Equipment	\$1,649,500		
Workshops/seminars	*covered under co-financing		
Travel/transportation	*covered under co-financing		
Others (admin costs/operational costs)	*covered under co-financing		
Contingencies (max. 10%)	*covered under co-financing		
<b>Total Cost</b>	<b>US\$10 million</b>		
Co-Financing <sup>3</sup> :	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><i>Amount (USD million):</i></td> <td style="width: 50%;"><i>Type of contribution:</i></td> </tr> </table>	<i>Amount (USD million):</i>	<i>Type of contribution:</i>
<i>Amount (USD million):</i>	<i>Type of contribution:</i>		

<sup>2</sup> These expenditure categories may be adjusted during project preparation according to emerging needs.

<sup>3</sup> This includes: in-kind contributions (monetary value), MDB loan or grant, parallel financing, etc.

• Government	US\$ 1 million	
• MDB	US\$10 million	IDA Credit
• Private Sector		
• Others (please specify)		
<b>Co-Financing Total</b>	US\$11 million	

**17. Project/Program 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/program<sup>4</sup>:** 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 regional Project Appraisal Document (PAD) and in the PPCR regional track Phase 1 Proposal, the PPCR grant will aim to improve data management and sharing capacity in SVG 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 SVG and regional technical agencies. This will be facilitated at a regional level through the PPCR regional track, which will likely support a Clearing House mechanism based at the Caribbean Community Climate Change Center. Once installed, the respective regional technical agencies would be responsible for managing the regional climate data and models and assist SVG 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.

<sup>4</sup> Other local, national and international partners to be involved in implementation of the project/program.

**19. Implementation Arrangements** (incl. procurement of goods and services): The Central Planning Division's (CPD) Public Sector Investment Program Management Unit (PSIPMU) currently located in the Ministry of Finance and Economic Planning (MoFEP) would be responsible for managing the procurement and financial management aspects of the project. The CPD's PSIPMU is implementing two Bank-financed projects. All contracting activity including bidding, contractor selection, execution, and supervision would be managed through the CPD's PSIPMU 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 CPD's PSIPMU 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 CPD's PSIPMU.

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

Given the emphasis on works represented under the project portfolio, the Government would include civil engineering support within the CPD's PSIPMU 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.