



Caribbean Community Climate Change Centre

ICAO “Capacity Building Seminar on Low Emissions Aviation Measures”

**Climate Change Adaptation and Mitigation in the
Caribbean**

by

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Outline

- The Centre
- Developing Work Programme
- The PDMU
- CCCCC Accreditation to the GCF
- Pipeline of GCF Projects



The Centre

The Centre coordinates the regional response to climate change and the region's efforts to manage and adapt to the impacts of Climate Change.



The Centre became operational in July 2005 through supporting grants from the host country, Belize and the Governments of Barbados and Italy.



The STRATEGY

The Regional Framework is to:

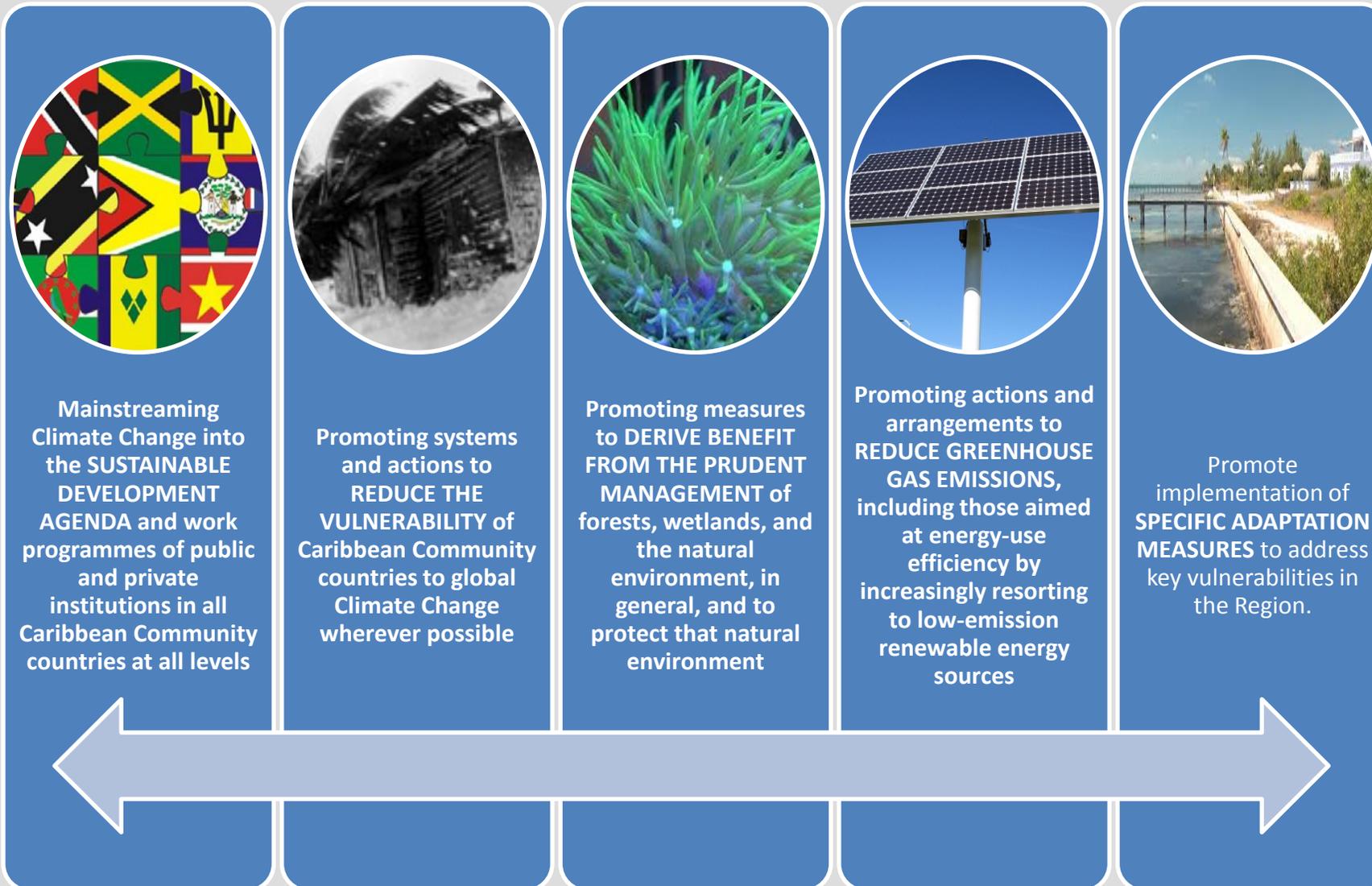
“Establish and guide the Caribbean’s direction for the continued building of resilience to the impacts of global climate change”.

Articulates the strategic direction for the region’s response to climate change risks.





The Regional Framework for Achieving Development resilient to Climate Change



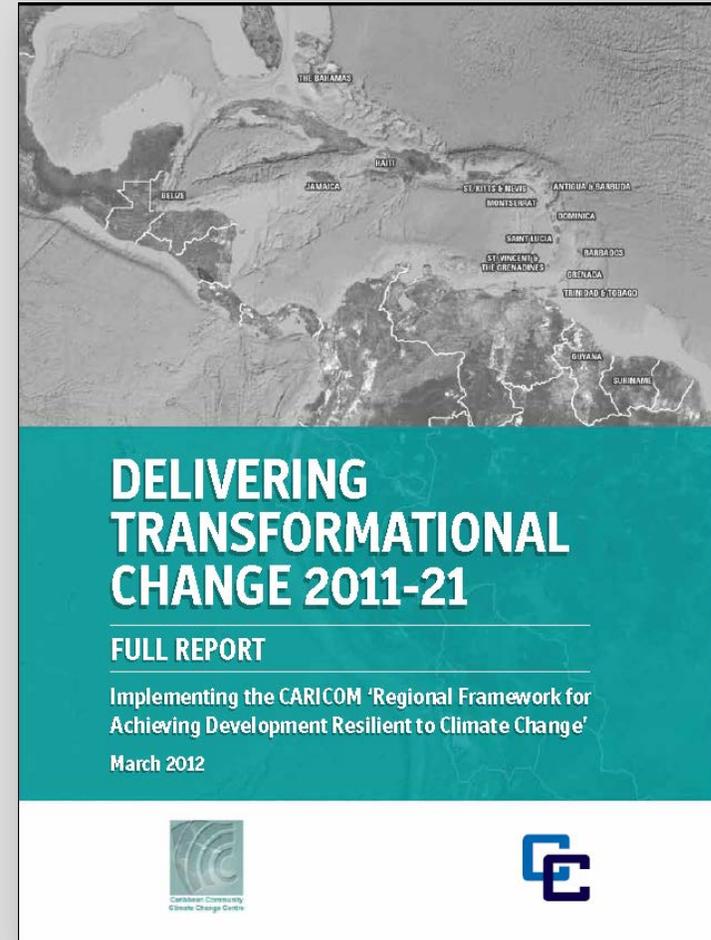


- **SE 3: REDUCTION OF THE REGION'S RELIANCE ON FOSSIL FUELS**
 - **GOAL 3.1:** Reduce greenhouse gas emissions
 - **GOAL 3.2:** Adopt energy efficiency and conservation standards and measures
 - **GOAL 3.3:** Increase application of renewable energy technologies
 - **GOAL 3.4:** Adopt transport efficiency and technological advancements



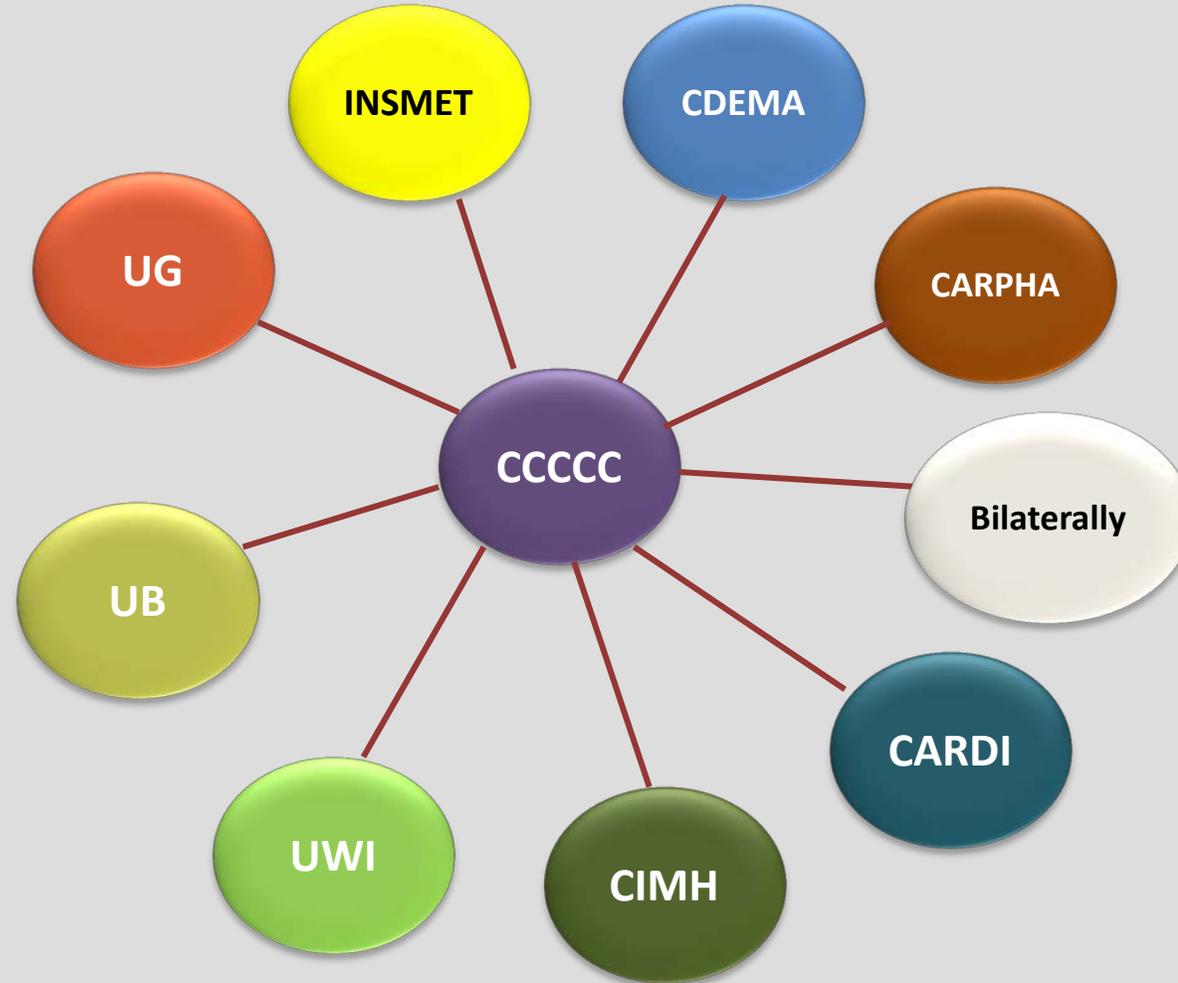
The PLAN

The Implementation Plan (IP) for the Regional Framework, defines the regional strategy for coping with Climate Change over the period 2012-2022





Implementation of the IP





Developing Work Programme

- Country Priorities
- Continued dialogue and dissemination of information.
- Modeling and Climate Change Projections, which is available via our website. This is done in collaboration with our Partners in Cuba (INSMET) and Jamaica (UWI CSG)
- Our Clearinghouse, which is a repository for climate change information and research.
- Tools and training in the use of these tools.
- Workshops and Conferences
- Hand holding (communication via various medium)



Developing Work Programme

- The CCCCC realises there is a genuine need to help in the development of bankable programmes/projects.
- CCCCC must act as conduit in the dissemination of relevant information.
- CCCCC also recognises that greater engagement with sector level experts to move project from concepts to full funding proposals.
- Partnership with CDB is essential to unlocking climate financing for climate action in the region.



The PDMU

- Project Development and Management Unit (PDMU)
 - Project Management
 - Project Development
 - Economic and Social Impact Unit
- Four Countries have committed resources to build greater capacity within the PDMU.
- GCF funding (expected) to build capacity within the CCCCC.



- Climate monitoring
 - hydro-meteorological stations and
 - Coral Reef Early Warning Stations (CREWS)
- Climate modeling
- Vulnerability and Risk Assessments
- National Adaptation Strategies and Action Plans
- Adaptation and Mitigation Projects



Sample Programmes/Projects



SWRO System



Grid connected PV System



- Risk Management Tool designed to inculcate a risk management ethos in decision-making
- On-line, user friendly,
- 14 CARICOM Member States trained to date
- More training to be rolled out





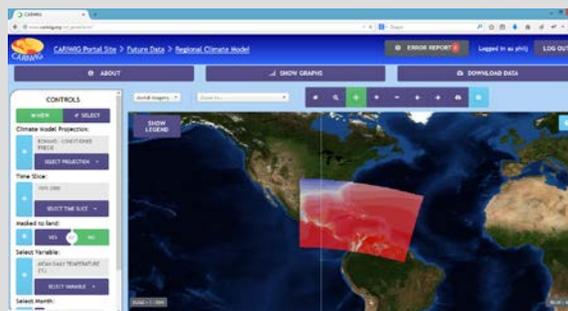
Supporting risk-based decision-making in the Caribbean



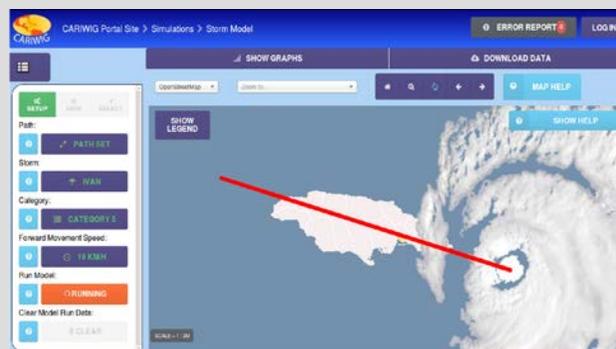
To address the likely impacts and hazards arising from climate change through the provision of locally relevant weather information for a range of time horizons

Funded by Caribbean Development and Knowledge Network (CDKN)

Weather Generator



Simple Model For Advecting Storms & Hurricanes (SMASH) – Tropical Storm Tool





UAE-Caribbean Renewable Energy Fund

Country	Project*	Notes
Antigua and Barbuda	Expected solar and battery solution	The project scope is being evaluated as part of the island's overall post-Hurricane Irma reconstruction plans, including inputs from Carbon War Room / Rocky Mountain Institute / Clinton Climate Initiative.
Bahamas	900 kW solar PV carport + level 2 EV charger station(s) at National Sport Stadium	Contract was awarded in February 2018
Barbados	350 kW solar PV carport with EV chargers & 500 kW solar PV groundmount at Barbados Water Authority sites	Contract was awarded in February 2018
Dominica	Grid stabilization for increased RE supply -- ~2.5 MWhr battery storage solution enabling increased hydro and geothermal energy supply	Project scope to remain the same (following the impacts of Hurricane Maria); intended to be tendered shortly
SVG	Union Island solar PV/battery hybrid -- 600 kW solar PV groundmount + 500 kWhr li-ion battery adjacent to the Union Island power station	Contract was awarded in February 2018



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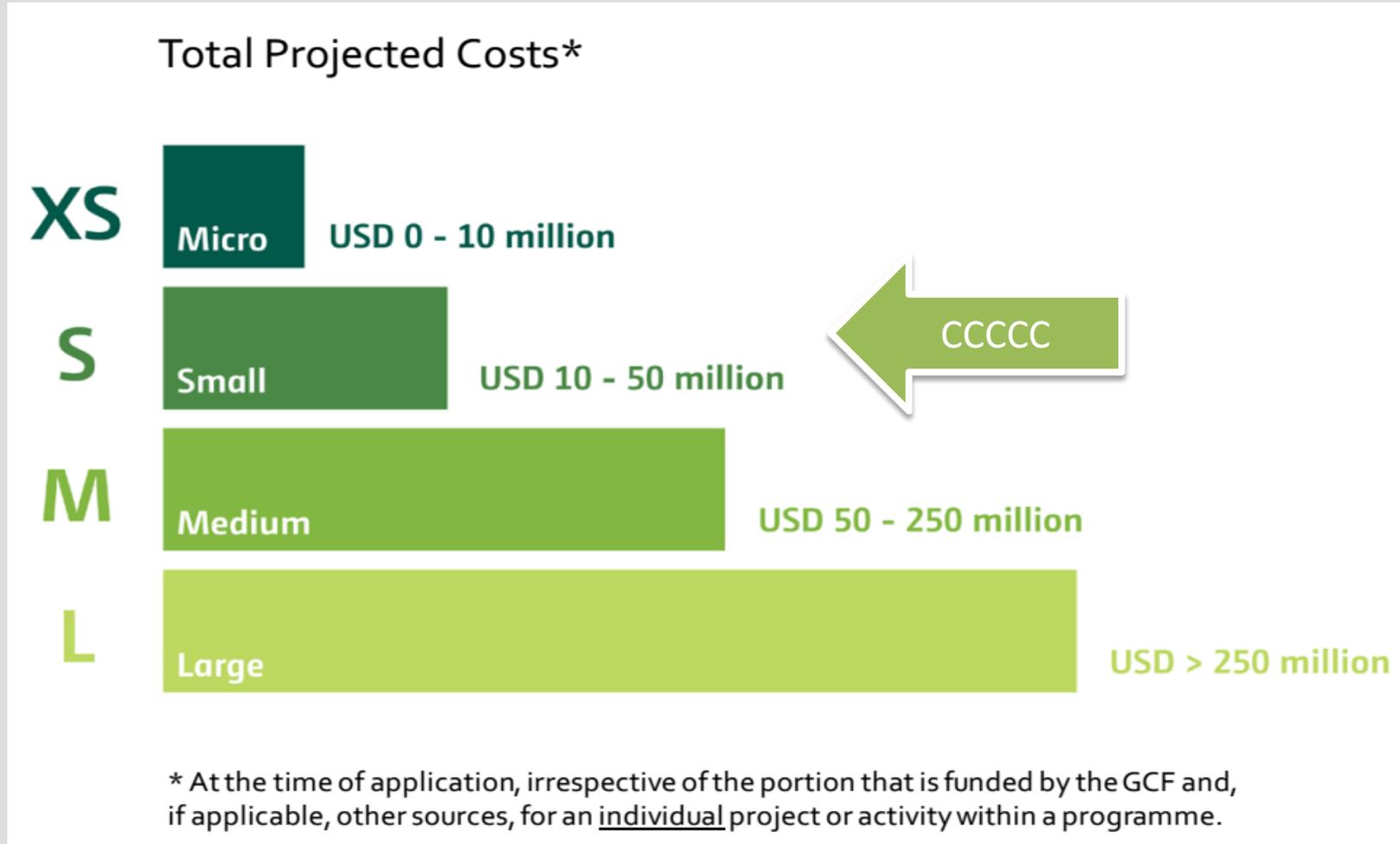
CCCCC Accreditation to GCF

Accreditation Date: Jul 6, 2015 B.10

AMA Execution Date: May 25, 2016



Project Funding





Environmental and Social Risk Categories

Risk level	Funding proposals	Intermediation*
High	Category A Activities with potential significant adverse environmental and/or social risks and/or impacts that are diverse, irreversible, or unprecedented.	Intermediation 1 (I-1) When an intermediary's existing or proposed portfolio includes, or is expected to include, substantial financial exposure to activities with potential significant adverse environmental and/or social risks and/or impacts that are diverse, irreversible, or unprecedented.
Medium	Category B Activities with potential mild adverse environmental and/or social risks and/or impacts that are few in number, generally site-specific, largely reversible, and readily addressed through mitigation measures.	Intermediation 2 (I-2) When an intermediary's existing or proposed portfolio includes, or is expected to include, substantial financial exposure to activities with potential limited adverse environmental or social risks and/or impacts that are few in number, generally-site specific, largely reversible, and readily addressed through mitigation measures; or includes a very limited number of activities with potential significant adverse environmental and/or social risks and/or impacts that are diverse, irreversible, or unprecedented.
Low/No	Category C Activities with minimal or no adverse environmental and/or social risks and/or impacts	Intermediation 3 (I-3) When an intermediary's existing or proposed portfolio includes financial exposure to activities that predominantly have minimal or negligible adverse environmental and/or social impacts.

* Activities involving investments through financial intermediation functions or through delivery mechanisms involving financial intermediation.



- **READINESS PROPOSALS**
- **NATIONAL ADAPTATION PLANS**
- **PROJECT PREPARATION FACILITY PROPOSALS**
- **SIMPLIFIED FUNDING PROPOSAL**
- **FUNDING PROPOSAL**



Pipeline of GCF Projects

Project Name	Beneficiary Country(ies)	E&S Risk Category
Water Sector Resilience Nexus for Sustainability in Barbados (WSRN S-Barbados)	Barbados	B/1-2
Arundo Donax Renewable Bio-mass Fuel for Belize	Belize	B/1-2
Water Security in St. Lucia	St. Lucia	B/1-2
An Integrated Water and Coastal Management Framework for Urban Areas in Dominica	Commonwealth of Dominica	TBD

Project Name	Beneficiary Country(ies)	E&S Risk Category
Mainstreaming Coral Reef Resilience and Restoration as an ecosystem-based Adaptation Strategy to Climate Change in the Caribbean Region	Jamaica, Belize, SVG, and Dom. Rep.	B/1-2
Increasing Resilience in the Fisheries Sector of Caribbean SIDS, through Climate Change Adaptation (CCA) and Enhancing Livelihoods in Vulnerable/Fishing Communities (IRCFish)	Antigua & Barbuda, Barbados, Belize, Com. Of Dom., Grenada, Guyana, Jamaica, St. Lucia, SVG	TBD
Enhancing Coastal Protection for Climate Change Resilience (EDA)	Antigua and Barbuda, Barbados, Belize, Grenada, Guyana, Jamaica, St. Lucia, & SVG	B/1-2



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Opportunities and Challenges



Thank You

Let's Connect!

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