



GREEN  
CLIMATE  
FUND

# **Sectoral Breakout Session: Increasing Renewable Energy in the Caribbean**

GCF Structured Dialogue with the Caribbean  
Belize | June 2017

Sergio Pombo – GCF Private Sector Facility  
Jennifer DeCesaro – International Renewable Energy Agency



GREEN  
CLIMATE  
FUND

# Setting the Scene: SIDS and Climate Change



- While absolute amounts are small, SIDS rank among the top GHG emitters on a per capita basis
- Significant factor for many is the carbon intensity of the energy system – specifically the electricity generation and transportation sectors
- Yet all have abundant renewable energy potential that can be developed



GREEN CLIMATE FUND

# A closer look...

## CO2 emissions (metric tons per capita)

Carbon Dioxide Information Analysis Center, Environmental Sciences Division, Oak Ridge National Laboratory, Tennessee, United States.

License: [Open](#)



## CO2 emissions (metric tons per capita)

Carbon Dioxide Information Analysis Center, Environmental Sciences Division, Oak Ridge National Laboratory, Tennessee, United States.

License: [Open](#)





GREEN  
CLIMATE  
FUND

# Opportunities

For SIDS, opportunities far outweigh the challenges in realizing the ambitious RE targets set forth in their NDCs.

COUNTRY	MW	Un-conditional (MW)	Conditional (MW)	USD million	Un-conditional (USD million)	Conditional (USD million)
Antigua and Barbuda	50	0	50	119	0	119
Bahamas	390	390	0	1075	1075	0
Barbados	170	0	170	464	0	464
Dominica	16	0	16	91	0	91
Grenada	27	0	27	105	0	105
Haiti	198	38	160	630	133	497
Jamaica	629	629	0	1585	1585	0
Saint Vincent and the Grenadines	15	15	0	81	81	0
<b>Total</b>	<b>1495</b>	<b>1072</b>	<b>423</b>	<b>4150</b>	<b>2874</b>	<b>1276</b>

1. Ambitious renewable energy NDCs and national level targets
2. Countries own the energy transition process and can drive the deployment roadmap and investment
3. Strong interest from private sector that needs to be unlocked – What are the keys?
4. Ratchet-up regional efforts to develop support mechanisms such as public/private partnerships, private equity funds, revolving loan programs, risk mitigation instruments, etc.



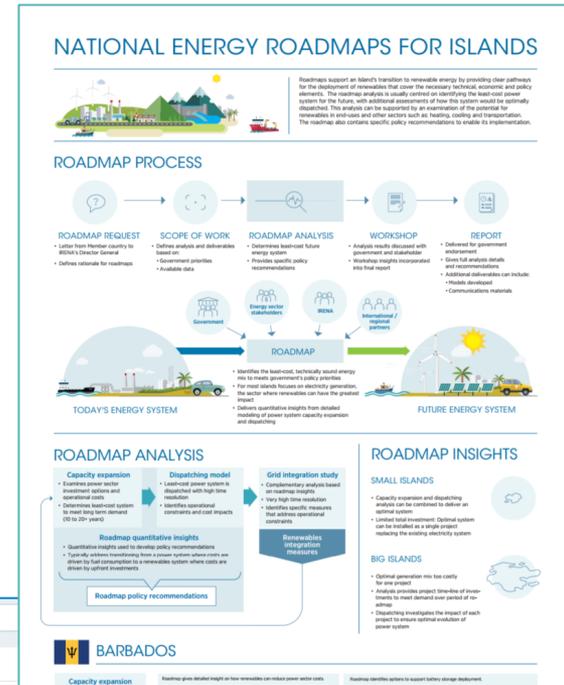
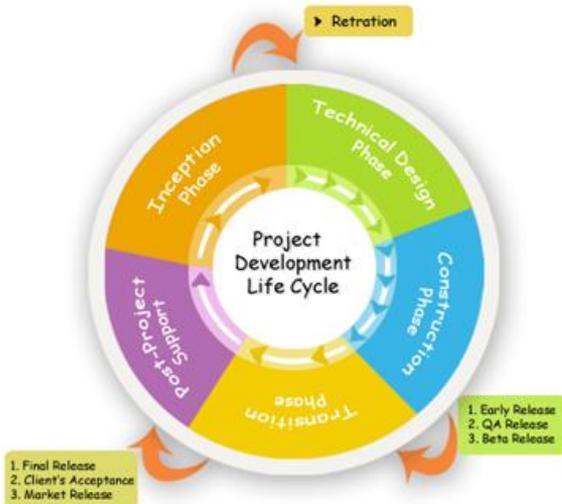


GREEN CLIMATE FUND

# Challenges

SIDS are making significant strides towards transitioning to renewable energy, but for most, the journey has just started.

1. Absence of a comprehensive energy transition plan or roadmap
2. Lack of data
3. Scale or bundling/aggregating to achieve scale
4. Project development capacity
5. Tension between national versus regional solutions



IRENA International Renewable Energy Agency

search for data

Featured Dashboard - Renewable Energy Balances

Overview Tables

This dashboard allows users to view and download renewable energy balances for a number of countries by category, technology, source and more.

Year: 2014 Country/Area: Jamaica

Year	Country/Area	Unit	Main Category	Sub Category	Hydro	Wind	Solar PV	Batteries	Aluminum	Other	Electricity	Total
2014	Jamaica	TJ	Primary Energy	Production	489	428	25	10,224	129			11,296
				Imports							1,209	
				Differences							-2	
				Total Supply	489	428	25	10,224	1,339			12,506
			Transformation and Losses	Electricity	-489	-428	-25				543	
				CHP				-364			128	
				Charcoal				-2,614		1,193	-143	
				Distribution							284	
			Consumption by Sector	Total				7,256	1,339	1,183	785	10,563
				Industry				3,931			369	4,299
				Transport					1,339			1,339
				Commercial				1,995		838	167	2,999
				Residential				1,339		395	253	1,988
				Other							6	6
			Consumption by Use	Total	359	314	18	7,350	1,339	1,183		10,563
				Electricity	359	314	18	84				785
				Direct Use				7,256	1,339	1,183		9,778

Country/Area: Jamaica Main category: Primary Energy Sub Category: Imports Year: 2014 Total: 1,209 TJ

© IRENA We welcome your comments and feedback here: <https://portal.irena.org>



# Closing the Gap: The Path to 2030 and Beyond



SIDS are making significant strides towards the renewable energy transition, but there is still plenty of work ahead.

1. Where are we in meeting our renewable energy targets?
2. What have been some significant successes to date?
3. What are the key challenges to address?
4. What is the role of climate financing in this transition?





**GREEN  
CLIMATE  
FUND**