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**THE CARIBBEAN REGION** is one of the world's most disaster-prone areas and is particularly vulnerable to climate change risks. Some of the key issues for Caribbean countries include rising sea levels, changes in precipitation patterns and the increasing intensity and frequency of hurricanes and other extreme weather events. These have potentially serious adverse environmental, social and economic consequences for the Region.

The Caribbean Development Bank (CDB), with support from the European Investment Bank (EIB), has provided credit lines supporting projects which explicitly address climate actions for mitigation and adaptation.

**The CDB-EIB partnership is unique. It includes:**

- Making available concessional funding for Climate Action projects at a subsidised rate;
- Providing technical assistance for capacity building of CDB and CDB's borrowing member countries (BMCs) as regards Climate Action;
- Delivering technical support for projects addressing climate change adaptation issues for CDB teams, and for project preparation for BMCs; and
- Providing grants for upstream planning and feasibility studies.

**2012 - 2017**

**CDB Climate  
Action Line of  
Credit**

**USD65.32  
million**

**2017**

**CDB Climate  
Action  
Framework Loan**

**USD132  
million**

# QUICK FACTS: CLIMATE ACTION LINES OF CREDIT

The USD132 million Climate Action Framework Loan has, and will continue to build capacity for climate risk management, fully mainstreaming climate change and strengthening climate resilience in CDB's BMCs. Projects financed by the loan have thus far focused on energy efficiency, on the mitigation side; and rehabilitation and reconstruction on the resilience side, under the theme of disaster risk management.

The Climate Action Framework Loan will continue to support mitigation and climate resilience projects such as:

**Climate Action Mitigation**

- Energy efficiency
- Renewable energy
- Lower carbon transport
- Forestry and lower carbon land use

**Climate Change Resilience**

- Transport
- Water
- Coastal protection
- Public buildings
- Urban and rural development
- Other sectors that could have an adaptation to climate change component (to be agreed on a case-by-case basis)

**Climate Action Identification Mechanisms**

- Climate Risk and Vulnerability Assessments
- National Adaptation Programmes of Action
- Nationally Determined Contributions
- Other national, regional, local or sector investment plans and programmes

The lines of credit are supported by a technical assistance grant for project design and preparation and related pipeline building activities.

## ACHIEVEMENTS TO DATE



### TRANSPORT

**PHILLIP S.W. GOLDSON HIGHWAY UPGRADING**



**Total  
\$29.7  
MILLION**

**CALC  
\$12.5  
MILLION**

**BELIZE**

**Project Outcomes:**

- Improved road safety with Killed and Seriously Injured casualties reduced by 20%.
- Reduced congestion, with the average travel time from Ladyville to Belize City reduced by 35% during peak hours.
- Enhanced capacity of the Ministry of Works and Transport (MWT) and Belizean road contractors to address gender equality and social inclusion in construction projects, with 50% of MWT's projects incorporating gender components.
- Enhanced capacity of the MWT to plan and sustainably fund road maintenance.
- Road scour and flooding eliminated.



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# WATER

## WATER SUPPLY IMPROVEMENT



<b>Total</b>	<b>CALC</b>
<b>\$41.8</b>	<b>\$12.38</b>
<b>MILLION</b>	<b>MILLION</b>

## THE BAHAMAS

### Project Outcomes:

- Climate-resilient water supply systems operational in the Family Islands, with 3 pumping stations and 7 new storage tanks constructed; 181km of mains replaced/ installed; and new connections provided to 1,800 customers.
- Gender-responsive public education activities conducted in 13 project communities.
- Increased awareness of health risks associated with groundwater contamination of private wells.
- Enhanced institutional capacity of the Water and Sewerage Corporation (WSC) to mainstream climate change considerations into planning and operations, with climate variability and climate change adaptation measures incorporated into WSC corporate plans and budgets.

# QUICK FACTS: CLIMATE ACTION LINES OF CREDIT

## ACHIEVEMENTS TO DATE

### VIEUX FORT WATER SUPPLY REDEVELOPMENT



<b>Total</b>	<b>CALC</b>
<b>\$19.7</b>	<b>\$12.0</b>
<b>MILLION</b>	<b>MILLION</b>

## ST. LUCIA

### Project Outcomes:

- An efficient, reliable, climate-resilient and sustainable supply of potable water to all of the residents and businesses of Vieux Fort and its environs:
  - Installation of 4000m<sup>3</sup> of additional storage capacity.
  - Reduction in Non-Revenue Water on Vieux Fort water system from 56% to 35%.
  - Reduction of annual number of water outages from 30 per year to 6 per year.
  - 50% reduction in the number of persons engaged in agricultural activity in the watershed.

### JOHN COMPTON DAM REHABILITATION

### Project Outcomes:

- Improved climate resilience of potable water supply to residents and businesses in the north of Saint Lucia:
  - Increase in effective water storage at John Compton Dam to 2,000,000 m<sup>3</sup>.
  - Reduction in the annual number of days with disruption in water supply from 30 days to 8 days.
  - Reforestation of 158 hectares in the Roseau Catchment.

<b>Total</b>	<b>CALC</b>
<b>\$18.3</b>	<b>\$8.93</b>
<b>MILLION</b>	<b>MILLION</b>

- Enhanced management and operational capacity of the Water and Sewerage Company (WASCO) in climate resilience planning, financial management and gender inclusion:
  - Climate change adaptation actions incorporated into WASCO's annual budget.
  - WASCO's management, Board of Directors and technical staff trained/sensitised in Climate Vulnerability Assessment and adaptation planning.

### WATER SUPPLY IMPROVEMENT UPGRADE



<b>Total</b>	<b>CALC</b>
<b>\$44.3</b>	<b>\$2.21</b>
<b>MILLION</b>	<b>MILLION</b>

## BARBADOS

### Project Outcomes:

- Enhanced safety and efficiency of the potable water supply system in Barbados:
  - 10% reduction in Non-Revenue Water by 2020.
  - 32 water production facilities refurbished; 20 storage reservoirs refurbished or replaced; 12km transmission mains installed.
  - 33 district metering areas operationalised and 24 Barbados Water Authority operators certified.
- Renewable energy generation of 855,250 kWh/year.



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## RENEWABLE ENERGY/ ENERGY EFFICIENCY

### STREET LIGHT RETROFITTING



<b>Total</b>	<b>CALC</b>
<b>\$7.9</b>	<b>\$3.90</b>
<b>MILLION</b>	<b>MILLION</b>

### ANTIGUA AND BARBUDA

#### Project Outcomes:

- 14,365 LED lamps installed
- By Dec 31, 2019:
  - Annual reduction in street lighting consumption by 4,900 MWh
  - Annual reductions in CO<sub>2</sub> emissions of 3,200 tonnes

### STREET AND FLOOD LIGHT RETROFITTING PROJECT



<b>Total</b>	<b>CALC</b>
<b>\$5.8</b>	<b>\$3.57</b>
<b>MILLION</b>	<b>MILLION</b>

### ST. KITTS AND NEVIS

#### Project Outcomes:

- Annual savings in street lighting energy consumption of 2,734 MWh in St. Kitts and 2,513 MWh in Nevis
- 5,550 additional LED lamps installed on an annual basis in St. Kitts, and 5,100 in Nevis
- Annual savings in CO<sub>2</sub> of 1,879 tonnes by St. Kitts Electricity Company Limited, and 1,727 tonnes by Nevis Electricity Company Limited

# QUICK FACTS: CLIMATE ACTION LINES OF CREDIT

## ACHIEVEMENTS TO DATE

### STREET LIGHT RETROFITTING PROJECT



<b>Total</b>	<b>CALC</b>
<b>\$25</b>	<b>\$10</b>
<b>MILLION</b>	<b>MILLION</b>

### JAMAICA

#### Project Outcomes:

- Reduced street lighting energy consumption and associated greenhouse gas emissions. By Dec 31, 2019:
  - 105,000 LED lamps installed and operational.
  - Annual reductions of 57,523 tonnes CO<sub>2</sub>.
  - Annual reduction of the Government of Jamaica street lighting energy consumption of 44,835 MWh.

### STREET LIGHT RETROFIT AND ADVANCED METERING INFRASTRUCTURE



<b>Total</b>	<b>CALC</b>
<b>\$29.82</b>	<b>\$18.56</b>
<b>MILLION</b>	<b>MILLION</b>

### SURINAME

#### Project Outcomes:

- Reduced street lighting energy consumption and associated greenhouse gas emissions:
  - Annual savings of 13,474 MWh.
  - Annual reductions of 13,475 tonnes CO<sub>2</sub>.
- Improved operational efficiency of NV Energie Bedrijven Suriname (EBS).
- Increased capacity of EBS in climate resilience planning.

### ENERGY EFFICIENCY MEASURES AND SOLAR PV PLANT



<b>Total</b>	<b>CALC</b>
<b>\$4.2</b>	<b>\$2.02</b>
<b>MILLION</b>	<b>MILLION</b>

### ST. VINCENT AND THE GRENADINES

#### Project Outcomes:

- 7,220 LED lamps installed and energy efficiency recommendations implemented in 20 government buildings.
- Annual savings in street lighting energy consumption of 1,527 MWh.
- Annual savings in Government building energy consumption of 1,085 MWh.
- Annual savings in CO<sub>2</sub> by St. Vincent Electricity Services Ltd. of 2,200 tonnes.



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## DISASTER RISK MANAGEMENT

### REHABILITATION AND RECONSTRUCTION LOAN (HURRICANE IRMA)



<b>Total</b>	<b>CALC</b>
<b>\$23.85</b>	<b>\$11.24</b>
<b>MILLION</b>	<b>MILLION</b>

### ANTIGUA AND BARBUDA

#### Project Outcomes:

- Enhanced institutional capacity for land use planning and disaster risk reduction.
- Restored infrastructure in the road, education, water supply, agriculture and fisheries sectors, which is socially inclusive and climate resilient:
  - 2 education facilities reconstructed and rehabilitated (1 in Barbuda; 1 in Antigua) with 540 students resuming school in Barbuda.
  - 1 desalination plant rehabilitated and commissioned; and 1,634 consumers with a safe water supply on Barbuda.
  - Bridge and 13.5km of roads repaired in Antigua, and 85,567 roads improved for commuters in Antigua and Barbuda.
  - 50% of Micro, Small and Medium Enterprises access business development services and financing.
  - Rehabilitation and upgrading/expansion of fish landing sites on Barbuda, Barbuda's irrigation infrastructure and the Government's plant propagation facilities, with 152 fisher folk resuming fishery and agriculture in Barbuda.

# QUICK FACTS: CLIMATE ACTION LINES OF CREDIT

## ACHIEVEMENTS TO DATE



## COMMUNITY INFRASTRUCTURE

### BELIZE SOCIAL INVESTMENT FUND III



<b>Total</b>	<b>CALC</b>
<b>\$10.0</b>	<b>\$2.5</b>
<b>MILLION</b>	<b>MILLION</b>

### BELIZE

#### Project Outcomes:

- Increased gender-equitable and inclusive access to climate resilient infrastructure and basic social services for poor and vulnerable communities. By 2021:
  - 50 classrooms built/upgraded with 740 students benefitting from the improved physical classroom conditions.
  - 3 rural water systems built/expanded with 570 households benefitting from the improved water systems.
  - 3 health facilities built or upgraded with 10,000 persons benefitting from the improved health services.

### DOMLEC - REHABILITATION AND RECONSTRUCTION LOAN (HURRICANE MARIA)



<b>Total</b>	<b>CALC</b>
<b>\$15.80</b>	<b>\$7.79</b>
<b>MILLION</b>	<b>MILLION</b>

### DOMINICA

#### Project Outcomes:

- Fully restored electricity generation, transmission and distribution system:
  - 12,751 utility poles replaced or relocated; 365 transformers and 550 km power lines replaced; and operational capacity at 26.7MW (from baseline of 21.3MW)
  - By Dec 31, 2019: 95% of households certified and connected to grid; annual reduction of approximately 54 tonnes of GHG emissions.
  - 100% of network reinstated and available.
  - 4,000-6,000 LED lamps installed.
- Enhanced capacity of Dominica Electricity Services Ltd. (DOMLEC) to improve the climate resilience of the electricity supply in Dominica.