

# DEPARTMENT OF ENVIRONMENT ANTIGUA AND BARBUDA



GREEN  
CLIMATE  
FUND

GLOBAL  
PROGRAMMING  
CONFERENCE

| Project title   | A Blueprint for Adapting Road Infrastructure to Projected Climate Extremes in Antigua and Barbuda  |                      |                    |                      |  |
|---|--|----------------------|--------------------|----------------------|--|
| Result areas  | Sector   | Total financing, USD | GCF financing, USD | Financial instrument |  |
| Increased resilience of: most vulnerable people, and infrastructure and built environment | Public   | 48 million           | 24-27 million      | Grant                |  |
| Description of specific climate change problem and how the project will address it        | <p>The climate rationale for this project involves it addressing the problem of climate change within Antigua and Barbuda by adapting the targeted road infrastructure (i.e. 25.01 miles of road [equivalent to 25% of all primary roads]) to the current and future adverse effects of climate change beyond the country's baseline scenario to become more climate resilient as well as building local capacity for the development and maintenance of these resilient roads.</p> <p>This project therefore is primarily focused on covering the incremental cost of adapting the targeted road infrastructure from being able to barely withstand 1-in-20 year flood events to 1-in-50 ones, in line with climate vulnerabilities assessments and local knowledge. It is also the scaling up of adaptation measures implemented on roads through a GEF Special Climate Change Fund project.</p> <p>In establishing the climate rationale for the proposed adaptation measures for the targeted road infrastructure, a chain of attribution must be determined from the climate change related events (i.e. more frequent and severe hurricanes, flooding, sea level rise, drought) and their adverse effects to the corresponding negative impact on the road infrastructure.</p> |                      |                    |                      |  |
| Alignment with key country priorities and stakeholders engaged                            | <p>Antigua and Barbuda's Intended Nationally Determined Contribution 2015<br/>Antigua and Barbuda's Medium Term Development Strategy 2015-2020</p>   |                      |                    |                      |  |

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## Activities

- **Component 1. Construction of climate resilient urban corridors and associated infrastructure systems**
  - Implementation of a number of adaptation measures for the utilities, carriage way, and drainage of the road infrastructure for four (4) primary roads in Antigua and Barbuda. Adaptation measures to brace for the adverse effects of climate change include a mix of grey infrastructure approaches (e.g. burying utility lines) as well as Ecosystem based Adaptation approaches (e.g. ponding)
- **Component 2. Mainstreaming cost effective adaptation into future infrastructure and develop options for private sector investments and for NGOs and community groups to participate**
  - Establishment of enabling environment for incorporating the adaptation measures and their standards into future infrastructure (via just transition capacity building for relevant government departments/agency and legislation)

## Expected outcomes

- 25.01 miles of climate resilient primary road infrastructure
- Revised standards and legislation mainstreaming the climate resilient infrastructure system and creating an enabling environment for climate change adaptation in this sector
- Trained public workforce for the maintenance and reconstruction of the road infrastructure in line with the revised standards and legislation

## Paradigm shift potential

- *The title of the project illustrates its paradigm shift potential. As a blueprint, this project is envisioned to pave the way and set an example for other countries within the Caribbean Community in relation to the production of a climate resilient road infrastructure structure standards. Antigua and Barbuda has been a champion for knowledge sharing on climate action within the region and will as a part of the project undertake such activities to set conditions for replication across the region.*