

# CUBA



GREEN  
CLIMATE  
FUND

GLOBAL  
PROGRAMMING  
CONFERENCE

## Project title

Strengthening of institutional capacities involved in the development of investments with renewable energy sources. **Transformation of the Cuban electricity generation system into a less intense carbon system**

(Idea in development, which is expected to be submitted to the Fund in 2021)

## Result areas

Mitigation: Reduced emissions from Energy access and power generation

## Sector

Energy (Public/Private)

## Total financing, USD

150,000,000.00

## GCF financing, USD

3,000,000.00  
47,000,000.00

## Financial instrument

Grant  
Loan

## Description of specific climate change problem and how the project will address it

- In the power generation matrix of Cuba at the end of 2018, fossil fuels accounted for 94%. This contributes to the fact that of the total GHG emitted in 2014 in the country, 76% corresponded to the energy sector and 56% of that corresponds to the energy industry.
- With the implementation of this Project, Cuba strengthens its capabilities for the transformation of the Cuban electric generation system towards low emission technologies, leveraging a program that seeks to raise the renewable power index of the power generation matrix from 4 to 24% in 10 years.

## Alignment with key country priorities and stakeholders engaged

The project is been developed to fully align itself with the priorities declared in:

**The Economic and Social Development Plan 2030:** Develop renewable sources of energy that contribute to promoting less intense carbon development.

**The State Plan to Face Climate Change ("Tarea Vida"):** Task 8. Implement and monitor mitigation measures to climate change derived from the sectorial policies in the programs, plans and projects associated with, renewable energy.

**Policy for the perspective development of FRE and efficient use of energy.**

**The Cuban NDC.** Mitigation contribution : 2 144 MW capacity based on RSE connected to the grid by 2030 (755 MW bioenergy; 633 MW wind; 700 MW SPV, 56 MW Hydro)

The project is been designed in close consultation with and involvement of relevant government agencies at the national and local levels, as well as with local economic sectors



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Activities	<p>1.1. Establishment of the training system for personnel linked to the investment, exploitation, maintenance and monitoring of the Electricity Generation Program with Renewable Energy Sources (RES).</p> <p>1.2. Infrastructure development for monitoring, reporting and verification of the country's power generation system.</p>	<p>2.1. Creation of infrastructure in the national industry for the manufacture of panels and support tables (up to 5% of the total SPV power of the program)</p> <p>2.2. Execution of an installation project of 30 MWp photovoltaic solar parks with national components.</p> <p>2.3. Establishment of a comprehensive maintenance and replacement system for photovoltaic solar generation systems.</p>
Expected outcomes	<p>1. The investment, exploitation, maintenance and monitoring capacities of the Electricity Generation Program with Renewable Energy Sources are strengthened.</p>	<p>2. National infrastructure that ensures the sustainability of the photovoltaic solar generation program created and strengthened.</p>
Paradigm shift potential	<p><i>The project is aimed at creating and strengthening capacities that facilitate the execution of the country's RES Program, which will raise the renewable index from 4 to 24% in 10 years, so it must create the enabling framework for the development of solutions innovative, that can leverage the country's RES Program and contribute to the transfer of new RE technologies. The capacities created with the support of the Project allow to move from a generation matrix based mainly on fossil fuels to a matrix with a 24% generation based on RES. The capacities of the investment, operation and maintenance and management teams of a more diversified matrix are strengthened. Likewise, the national manufacturing capacities of parts and pieces that guarantee the sustainability of change are strengthened.</i></p> <p><i>The capacities created and the lessons learned allow us to promote the implementation of the policy that provides for the installation of 1244 MW in RES.</i></p>	