**Reducing the Carbon Footprint of San Ignacio and Five Surrounding Villages in the Cayo District**

**Belize**

**THE PROJECT CONTRIBUTION TO**

The project allowed the public lighting system’s energy efficiency in the city of San Ignacio, through the replacement of high energy consumption street lighting systems with LED systems. In addition, a shelter powered by a photovoltaic system was built, intended for the local population of San Ignacio and five neighboring rural areas in case of emergencies related to atmospheric phenomena.

BACKGROUND

As a small, coastal developing country, Belize is particularly vulnerable to the impacts of climate change. The country has, therefore, prioritized efforts to achieve climate resilience and the development of a low-carbon economy.

 [**NDC Belize**:](https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/Belize%20First/BELIZE%27s%20%20NDC.pdf)

* Use of 85% of energy from renewable sources by 2030.
* Reduction of energy dispersion from 12% to 7% by 2030.

 [**2030 Agenda**:](http://www.un.org/sustainabledevelopment/sustainable-development-goals/) Goal 7 - Sustainable energy; Goal 13 - Climate action.

OBJECTIVE

Reduction of carbon emissions and the risk of vulnerability linked to climate change and extreme weather phenomena.

CARRIED ON ACTIVITIES

* Call for tenders for the purchase and installation of public lighting systems equipped with low energy consumption bulbs, (LED), and related installation.
* Call for tenders for the purchase of materials and construction of the Community Multi-purpose Emergency Center, (CMEC), emergency shelter and construction of the shelter.
* Call for tenders for the construction and installation of a 3 kW photovoltaic system at the CMEC and related installation.
* Installation and management of tanks for the conservation of 5,000 liters of water aimed at supporting the emergency shelter.

**SUBJECTS DURATION TOTALCOST OF THE INITIATIVE**

Promoters:

* Italian Ministry of the Environment, Land and Sea
* Belize Ministry of Agriculture, Fisheries, Forestry, Environment, Sustainable Development and Immigration

Actuators:

* Caribbean Community Climate Change Centre, (CCCCC)
* The Sustainable Development and Climate Changes Office, (SD&CC)

**October 2017 - December 2019**

$ 1,150,000

**Lender**: MATTM

**Other lenders**: ---

OUTPUT



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* Low energy consumption public lighting system installed in the city of San Ignacio, (1000 LED lamps).
* Design of the emergency shelter.
* Reception shelter capable of hosting 550-600 people in case of emergencies due to atmospheric phenomena, (1500 m2), built and equipped with a solar energy system

capable of guaranteeing electricity even in the event of faults in the national grid at the CMEC, (3Kw ), and a water conservation system, (5000 litres).

**PROJECT STATUS**



* realized  in progress