MITIGATION COMPONENT SUMMARY

CAYE CAULKER, BELIZE

Climate Smart
CAYE CAULKER

In 2018, the Inter-American Development Bank with the assistance of EQO-NIXUS officially launched its first climate change mitigation pilot project to support the implementation of a greenhouse gas (GHG) emission reduction measure in Caye Caulker, Belize. This pilot project was selected through an extensive process that included a professional cost-benefit analysis, a cost-effectiveness analysis, and a multi-criteria analysis with inputs and feedback from key stakeholders in Caye Caulker as well as the greater island of Belize.

On March 23, 2017, a multi-stakeholder meeting was held at the offices of the IDB in Belize City to review, validate and select the pilot project for Belize. The consultation meeting was attended by critical stakeholders including the Caye Caulker Village Council, Belize Electricity Limited, the Ministry of Energy, the Ministry of Tourism and Civil Aviation, the Ministry of the Environment, the Housing Department, the Caribbean Community Climate Change Center, the Solid Waste Management Authority, and other critical stakeholders.

SISP Sustainable Islands Platform
IDB Inter-American Development Bank
EQO nixus

This process resulted in the selection of the climate change mitigation intervention of procuring and installing approximately ten high energy-efficiency air conditioning units within public buildings throughout the island of Caye Caulker as a means to reduce electricity consumption and thereby reduce GHG emissions. The retrofitting of air conditioning units to more efficient alternatives not only results in energy efficiency improvements for cost savings and reduction in GHG emissions, but this will also contribute to the phasing out of ozone depleting refrigerants in Belize. This pilot project officially launched during the week of October 22, 2018.

The implementation of this project will demonstrate the following:

1. The energy savings and GHG reduction to be gained by replacing standard old R22 air conditioning systems with new HEE inverter air conditioning systems;
2. The energy savings and GHG reduction to be obtained by retrofitting mini splits systems using R22 refrigerant with alternative environmentally friendly hydrocarbon refrigerants; and
3. The energy benefits of using solar hybrid powered air conditioning inverter mini split systems.

ABOUT CLIMATE SMART ISLANDS

To help build resilience against climate change, the Inter-American Development Bank (IDB) launched the Caribbean Climate Smart Islands Program (CCSIP) under its Sustainable Islands Platform. This program aims to demonstrate ways of transitioning to a low carbon and climate resilient pathway in the islands of Tobago (Trinidad and Tobago), Caye Caulker (Belize) and Harbour Island (The Bahamas). CCSIP has been working over the past year to identify and implement climate resilient mitigation and adaptation measures in priority sectors including transport, infrastructure, energy, water, waste treatment and tourism. Under this program, a "Climate Smart Island" is defined as an island that has committed to embark on a journey towards climate change resiliency by assessing its climate change-related exposure and catalyzing public, private, and community actions to the most suitable climate change adaptation and mitigation strategies. By doing so, the Climate Smart Island is continuing to protect its natural and cultural resources so that visitors today and, in the future, will be able to enjoy the island's hospitality.

For more information,
visit https://www.sustainableislandsplatform.org/programs/climate-smart-islands/

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