


Sustainable design of Resort Hotels in Cuba

 **Aim 6: Ensure that our businesses respect the environment (design of works)**

Action 6.3: Develop buildings with high environmental standards when we are the project designers

 **Entity:** Bouygues Bâtiment International

 **Operational unit:** Bouygues Bâtiment International Cuba

Overview of the Initiative

> **Objective:** Design Resort Hotels that reconcile the development of tourism with respect of the environment.

> **Description:**



In its activities in Cuba, where the environmental issues are major concerns (highly sensitive, unharmed environment, islands with very few fossil fuel resources and little potable water, tropical climate: high temperatures and humidity), Bouygues Bâtiment International is making its best efforts to design and build hotels that respect the environment.

In addition to their integration in to the natural habitat, these buildings are built using bioclimatic architecture (preferring natural ventilation to air conditioning, limiting sun heating) which produces a reduction in heating by up to 40 %).

The choice of building materials, which represent 13% of the environmental impact of a building's lifecycle is also closely studied. Bouygues Bâtiment International prefers using local materials in order to reduce the impact of transport, materials that do not require maintenance and that are recyclable.

To reduce CO₂ emissions, sanitary hot water is produced using solar energy and by reusing the heat produced by refrigeration units. 7000 m² of solar panels in total were installed on the Varadero and Cayo Santa Maria projects.

An iced water production plant that stores energy is currently being developed for the air conditioning system of the Hotel Laguna Mangon B at Varadero. This is the first installation of its kind in Cuba.

 **Potential partner(s):** Not given

 **Start date:** Not given

 **Indicator(s):** Not given