Solar Power Plant Replaces Fossil Energy

It is the largest solar power plant in the Caribbean and a first of its kind in the region.

Installing the largest solar power plant in the Caribbean the project is an alternative to the fossil driven electricity fuel mix by sun power and furthermore creates local employment, a visitor center and a fund for social activities.

The project activity consists in the installation of a 60 Megawatt photovoltaic Solar Energy Farm in the Monte Plata province in the Dominican Republic. The expected solar irradiation per year (with 1,490 kWh/kWp) is approximately one and a half times higher than in Switzerland. 100 Giga Watt hours (equals the consumption of 20,000 households in Switzerland) electricity will be produced per year thanks to this ideal solar radiation conditions.

It is the largest solar power plant in the Caribbean and a first of its kind in the region. It produces renewable, local produce electricity for around 50,000 households in the Dominican Republic per year. Almost 70,000 t CO₂ are being reduced per year. This equals the burning of around 26

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Project type: Solar
Project location: Dominican Republic
Project status: In operation, credits available
Annual CO₂ reduction: 48,026 t
Situation without project
National electricity fuel mix

Contribution to the SDGs

Gold Standard
CER

Impressions

Once the plant will be fully contructed, 264,000 pieces of solar modules will be installed on an area as big as 50 football pitches.

Ribbon-Cutting Ceremony of Phase 1 on Mar.
The success of Monte Plata solar project increases local employment rate and raises the percentage of renewable energy for the Dominican Republic.

Dr. Quincy Lin, Chairman of GES

An assessment of environmental effects has been done. The owner is obliged to reforest outside the project area any if needed deforestation activity and to conserve an area next to a river adjacent to the project site. At least equal amount of native flora will be replanted next to the project site and also a plantation of different plant species within the boundaries of the project site is mandatory. In addition, a visitor center will be installed next to the site to demonstrate renewable energy possibilities and to provide climate education. At least five percent of the income of carbon revenue will flow in a revolving fund managed by the community of Monte Plata dedicated for social activities.

Thanks to the support of myclimate and the CO₂ offsetting mechanism the attractiveness of the project for investors can be improved. The project activity is financed by GES and operated by Soventix.

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Impacts and benefits achieved so far:

- 264,000 pieces of solar modules installed (equals 50 football pitches)
- 200 jobs during construction
- 36 jobs during operation
- 5 % of incomes from carbon credits goes to local schools
- 500 trees recultivated
- 118,788,299 kWh renewable energy has been delivered to the grid until 2018
  - this means locally produced, renewable electricity for around 75,000 households

29th, 2016. Danilo Medina, President of the Dominican Republic (3rd from left), and Dr. Quincy Lin, GES Chairman (5th from left).

There was no rainforest where the solar panels are located but unused meadows and bushland (see map).