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UNIDO/UNEP/GEF Project

Generation and Delivery of Renewable Energy Based Modern Services in Cuba - The case of Isla de la Juventud

Objectives:

- Setting up of four business models on biomass production, biomass power generation, wind energy and process heat for industry
- Building up of national manufacturing capacity in the renewable energy sector
- Setting up of a Risk and Replication Management Fund (RRMF) to promote renewable energy technologies in Cuba
- Strengthening policy planning mechanisms and partnerships in the renewable energy sector

Project Description:

UNIDO, in cooperation with UNEP, is executing a GEF funded project to promote the generation and delivery of renewable energy based modern energy services on the Isla de la Juventud in Cuba.

The project has a total budget of US\$ 16.041 million with a GEF grant amounting to US \$ 5.337 million and co-financing to the tune of \$ 10.704 million.

A number of financial, institutional, technical, information and human resource-related barriers hamper the increased use of renewable energy sources in isolated areas in Cuba. On the Isla de la Juventud, the second largest island outside the main island of Cuba, diesel based power and heat generation is used to provide energy in the area.

The main objective of the project is therefore to promote renewable energy technologies for power generation and process heat in selected industries. The project will particularly address key barriers to the development of renewable energy based power and heat generation through technical assistance and targeted finance. It aims at achieving attractive initial conditions for wind power and biomass gasification technology markets. The project will install a large biomass gasifier plant (3.5 MW) for power generation, four gasifier applications (about 6 MW thermal) to be placed at four industrial sites for heat production and a wind farm to produce 1.5 MW of electricity to augment supply on the Isla de la Juventud. The project will set up a Risk and Replication Management Fund, thereby helping to introduce new and innovative financial and institutional structures to encourage private investments.

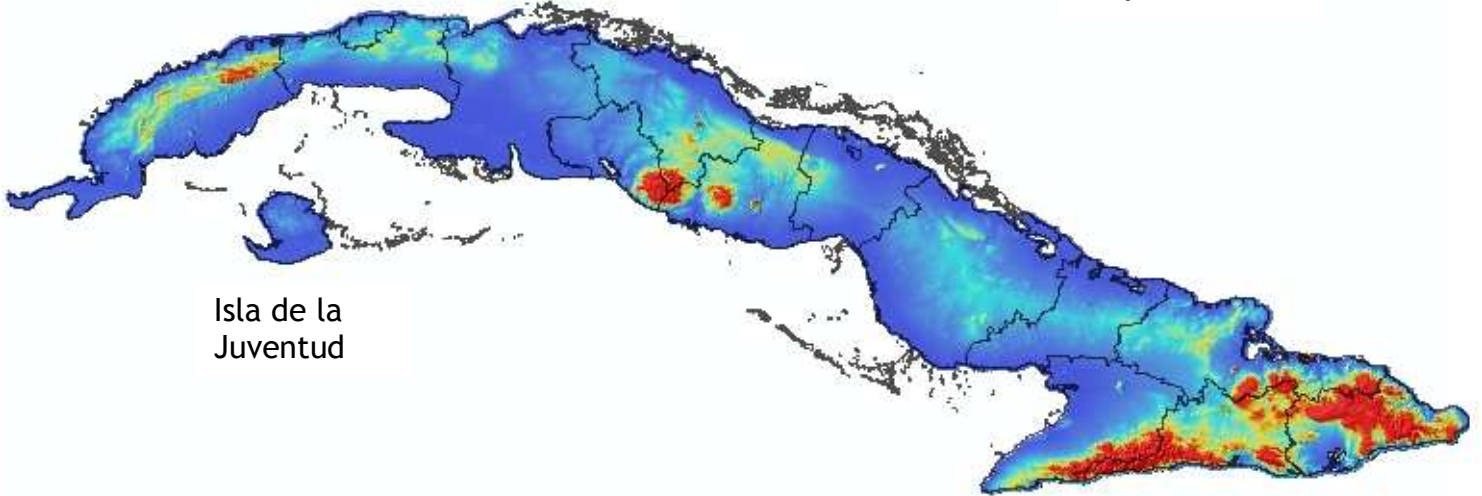


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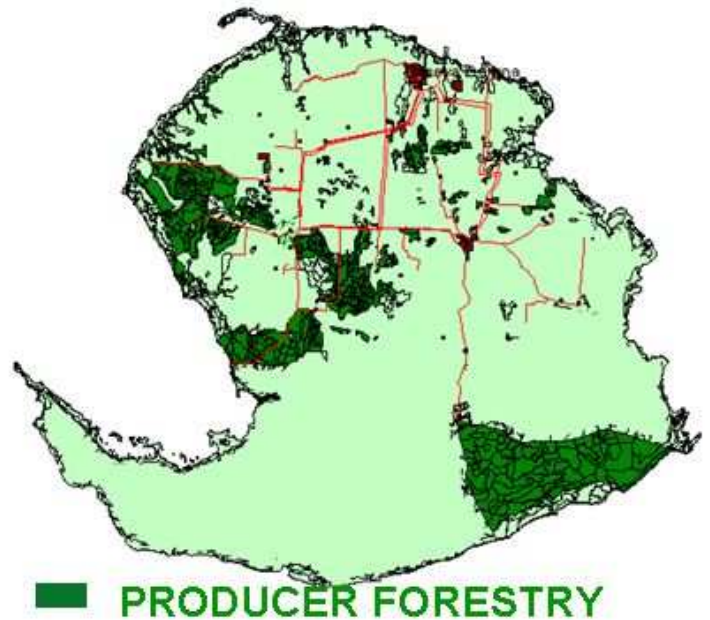
Map of Cuba



Isla de la Juventud



Biomass power plant on the Isla de la Juventud



PRODUCER FORESTRY

Biomass production on the Isla de la Juventud