Island Electrification

Site of Intervention
- Cocodrilo Village, Isla de la Juventud, CUBA

Type of Intervention
- Supply, Installation and Commissioning of Biomass Gasification System for 100% Power Generation Application

Title of the Case Study
- ANKUR BIOMASS GASIFIER FOR ISLAND ELECTRIFICATION

Objective of the Case Study
- To provide electricity to around 96 households, a bakery, a primary school and the water supply system

Summary
- In 2014 Ankur Scientific has installed the Gasifier model WBG-850 for 500-kWe gross power generation for island electrification. The system was installed to provide power from Renewable Energy

Choosing the Intervention – Motivation
- Locally available woody biomass was used in the Gasifier
- No fossil fuel required

Description of the Intervention (150 words)
- Ankur Scientific supplied, installed and commissioned the Biomass Gasification System with suitable 100% producer gas genset of 500-kWe rating and provided training to the local peoples for them to operate and maintain the plant smoothly

Intangible or Tangible Benefit (100 words)
- Energy access in the rural area
- Small-Scale Employment Generation
- Great boost to Rural Entrepreneurship
- Unlike other technologies, 70-80% of the revenue returns to the local economy
- The energy is clean and green
- Reduces CO2 emissions, thus reducing Global Warming
- The charcoal generated as by products are used for smokeless cooking and the char is used as fertilizer by the farmers

Some photographs of the project: