

## 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:

