

## Project Overview:

### Biogas Plants in Rural Cuba

#### Situation in the rural area and project development in Cuba's eastern province

Eastern Cuba is one of the particularly disadvantaged provinces of Cuba and whose inhabitants mostly generate their income on the basis of small-scale cattle breeding. The majority of households in the region depend on electricity provided by the state. Cuba imports more than 50 percent of its electricity from abroad, making it expensive and unreliable for consumers. For this reason, most people in the region use firewood and charcoal as substitutes.

Deforestation, caused by the use of firewood and charcoal, is harmful to the environment. In addition, the usage of open fires poses a risk to the health of their users. The local partner organisations Centro Lavastida and CCRD are cooperating with the Berliner Missionswerk to supply small farmers in rural areas with biogas plants. The partner organisations provide all the materials required for the production of the plants, and the local people only help with their construction. Currently, 25 plants are being built. A calculation for the savings has been made, which will be reviewed after one year. Klima-Kollekte supports the project with 20.000 Euro.

#### Benefits of the biogas plants

The use of biogas plants reduces the dependency on expensive electricity and replaces harmful smoke from the combustion of wood and charcoal. The money saved can be invested in other ways and the time saved can be spent with the family. A biogas plant produces 12 kWh, is able to supply up to eight people with electricity and thus saves 1.3 ha of forest, which corresponds to 6.5 t CO<sub>2</sub>/year. In addition, the leftovers after the fermentation are a high-quality organic fertilizer for the soil.

Name:	Biogas plants for smallholder farmers in rural Cuba
Category:	Renewable Energy
Location:	Province Oriente in Kuba
Partners:	Centro Lavastida Santiago de Cuba and Centro Cristiano de Reflexion y Diálogo (CCRD)
Standard:	Micro project according to criteria of the Gold Standard
Savings:	1.137 t CO <sub>2</sub> (in total)
Duration:	2018-2019
Status:	Pilot phase; financed from Klima-Kollekte's micro project fund

Contribution of the project to the 17 Sustainable Development Goals of the UN:



Link to our partner organization:  
<https://www.berliner-missionswerk.de/partner-projekte-weltweit/kuba/>