



ClimatePartner^o



Hydropower

Renun, Indonesia

The project consists of one new reservoir hydropower plant, consisting of two turbines with each 41 MW. The plant is a run-of-river systems, using a natural height difference of up to 500 meters to generate sustainable hydropower. The water is taken from several sources: Lau Renun River, Haporas River, Bargot River, Tapian Nauli River, and other small rivers in North Sumatra. The percentage of hydropower in Indonesia is lightly more than one percent of the national energy mix, fossil energy resources are dominating. Indonesia has enormous potential (75,000 MW) for hydropower energy production. Yet only a small amount of this potential is used (3,200 MW in 2009) .

The project increases this rate and leads to an average annual CO₂-reduction of approx. 230,000 tons CO₂-equivalents. The energy produced is supplied to the Sumatran grid, supporting the local community with power from renewable sources. Most of the local people earn their living from fishing and farming. The region produces rice, palm oil, rubber liquid, Robusta and Arabica coffee beans as well as various spices.

Additional sustainable benefits of the project

- » Supporting catchment area reforestation
- » Generating employment for locals, providing of health care for employees
- » Promoting of public development (public toilet, piping for clean water)
- » Improving public health services
- » Fostering donations to the local school, church and mosque

Verification:

RINA S.p.A

Type:

VCS and Social Carbon

Total volume:

2,290,483 t CO₂-equivalents

The project is located in the province of North Sumatra, about 100 km from Medan, the capital city of the province.

