



climatmundi

Geothermal electricity in Guatemala

This project is meant to capture the underground geothermal energy, stored as heat, in order to produce electricity for the national grid.

There are several advantages to this project : it generates **renewable energy** that replaces electricity from fossil fuels, it also **creates employment** locally, and it includes a flooding reduction program consisting in the **planting of over 5 000 trees**.

This project is registered by the United Nations Framework Convention on Climate Change (UNFCCC) as a **CDM*** project under the **n°2022**



Focus...

The project is located 28 km southwest of Guatemala City, in the **Escuintla** region, south of Guatemala. The geothermal powerplant has a capacity of **25,2 MW** using three turbines, and generates 162 000 MWh per year. This project helps the country to diversify its electricity production, and increases the global **stability** of the grid while meeting an increasing electricity demand in the country.

The plant reduces a large amount of greenhouse gas emissions, as well as other toxic gases derived from the combustion of fossil fuels (NOx, for instance).

There are also **important social benefits** arising from the project : 20 full-time jobs are required locally to run the powerplant, and many other indirect jobs are created. The surrounding region also benefits from an increased **economic development** with this project.

The emission reductions have been **verified by DNV**, independant entity accredited by the United Nations Framework Convention on Climate Change (UNFCCC).

Emission reductions

83 000

Tons of CO₂ per year.

Type of credits

VERs pre CERs

Standard



(*) Clean Development Mechanism