

Identity card:

Society : Viessmann Faulquemont SAS

Project title: Ecolodges on the Uyuni's Salar

Country of intervention: Bolivia

Duration of intervention: 2019

Total cost: 10 k €

Staff mobilized: 5 people

Themes: Solar hot water - Water treatment

Services provided: Services - Engineering / BE - Manufacturer

Content of the article:

Project description:

The purpose of the project was to provide domestic hot water to an ecolodge on the Uyuni's Salar in Bolivia. As the site is completely isolated, a solution had to be found that could operate independently, ecologically and economically while ensuring a high level of comfort for high-end customers.

As the site is one of the largest solar deposits in the world (2,378 kWh/m² per year), solar thermal collector technology was an obvious choice. With an average annual yield of more than 50% and a peak yield of 80%, each collector can produce more than 200L of water at 60°C per day.

The aggressiveness of the environment during the winter floods coupled with the remoteness of the site from the cities meant that the material had to be highly reliable and resistant. It is on the basis of all these criteria that the Viessmann Group was selected to be integrated into Geopure's innovative water treatment solutions to offer a 100% French solution.

The sphere of activity of the Viessmann Faulquemont company was:

- Complete study of the project (feasibility, performances, profitability)
- Theoretical training on thermal solar installations and practical training on the installation of complete systems.
- Supply of 100% French manufacturing equipment in our factory in Faulquemont
- Remote assistance during the installation and commissioning of the installation

French partners:



The French company Geopure develops closed-circuit micro-purifiers. Its objective: to free itself from water networks, gain mobility and achieve total autonomy without deforming the soil.

Their purifiers are compact and transportable and offer a real solution for the protection of natural resources and self-sufficiency.

Foreign partners:



Swiss company offering turnkey solutions for completely autonomous ecolodges.

Post project results:

- Performance in line with estimated results. The site is going to be enlarged and the operator has decided to extend the field of sensors, renewing his confidence.

Environmental impact:

- Domestic hot water distribution with a significant reduction in fossil fuel energy consumption.
- Water treatment using environmentally friendly solutions.





