



Solar Process Heat Installation

Lackiererei Vogel, Germany

Summary description

Lackiererei Vogel is a paint shop located in Zwickau, Saxony. Main fields of business of this enterprise are paintings of cars, varnishing of industrial parts, repair works of cars and parts, labelling and transport services. It is a small crafts company with about 10 employees.

Background

High energy costs drove the proprietary to take measures to get independent of fossil fuels and price growth. Therefore, a solar thermal installation was planned to reduce the natural gas demand of the enterprise.

Solar process heat from 43 m³ vacuum tube collectors is used at Lackiererei Vogel to heat the painting cabins up to 22 to 24 °C during the painting process. It also serves to generate hot air for drying processes with 60 to 70 °C.

Technical description

- Installation in August 2010
- Collector type: vacuum tube collectors
- Collector surface: 43 m²
- Even installation on flat roof of company
- 3000 litres storage tank
- Yield: 18 MWh/a
- economic data is not available for publication

Results & conclusions

According to the planning, this installation will reduce the enterprises' current demand of natural gas by about 30 %.

Pictures

