Reference project – Energetika Vransko, Slovenia

General

S.O.L.I.D. completed its first large scale solar plant in Slovenia in March 2012. Solar collectors with an area of 842 m² feed their energy into a storage tank, which in turn feeds into the district heating grid of Vransko. So far the heat was supplied by four boilers (biomass and oil). Together with the investment into a solar thermal system the heat storage tank was installed to manage the loads on the grid.

Technology

S.O.L.I.D.’s special high temperature collectors are mounted on the roof of the production hall of the neighbouring company KIV. KIV is specialized in production of tanks and vessels and supplied all vessels for the project. The heat from the collector field is transported in partly underground pipes to the technical hub of the heat plant of the district heating network. In the transmission station the solar loop and heating loop are linked through a heat exchanger. The facilities have been dimensioned for a maximum capacity of 1 MW solar thermal heat capacity (1,500 m²), which might be developed at a later stage. Besides the solar thermal plant a photovoltaic system for electric power production has been installed.

Details

Organisational

- Design & engineering: S.O.L.I.D. GmbH
- Installation: S.O.L.I.D. GmbH, Austrian & local partners
- Owner: Energetika Vransko d.o.o.
- Commissioning: 2012

Technical

- Collector: 842 m² / 9,066 ft² glutmugl HT
- Heat storage tank: 93 m³ / 24,568 USgal