Reference project – UPC-Arena Graz-Liebenau

General

At the UPC Arena in Graz, Austria's largest solar plant was built in 2002. It is a pilot project for the use of solar energy in district heating systems and demonstrates the commitment of the city of Graz to renewable energies and the protection of the environment. The plant has been the first solar system integrated into a city’s district heating system.

Technology

The total collector area is 1,407 m²/15,145 ft². The panels are mounted on the roof of the skating hall of the UPC Arena. A transfer station located in the mechanical room of the UPC Area manages the transfer of energy from the solar circuit to the district heating grid. The solar plant is operated in an Energy Service model in cooperation with our partner nahwaerme.at Energiecontracting GmbH who was responsible for the funding and the proper operation of the plant, while S.O.L.I.D. was in charge of the design, planning and erection.

Details

Technical

- Collector: 1,407 m² /15,145 ft² gluatmugl GS
- Direct supply to the district heating grid
- Yield: approx. 540 MWh/a
- CO₂ reduction approx. 250,000 kg/a
  (compared with oil-fuelled boiler)

Organizational

- Design & construction: S.O.L.I.D. GmbH, Graz
- Owner: nahwaerme.at
- Energy client: Energie Graz
- Commissioned in 2002