Architectural integration of solar thermal energy systems

Ennstal - Neue Heimat – Wohnbauhilfe (ENW), Graz /Austria

Picture source: AEE INTEC
PROJECT

The project consists of 61 flats - different sizes from 40m\(^2\) and up to 90 m\(^2\) each, 1500 m\(^2\) office area and a cafeteria. The solar system is a combined system, providing both space heating and domestic hot water - about 14 % of the total demand.

Energy efficiency and increased use of renewable energy sources are important issues for the non-profit building association ENW, which can refer to more than 10 years of experience with solar energy.
**Key figures**

- Solar collector area: 240 m\(^2\) - roof integrated
- Heat store: 20 m\(^3\) water heat store
- Heat distribution: Radiators
- Auxiliary heating: District heating of the city of Graz

**Solar collector**
Glazed flat plate water collector

Picture source: AEE INTEC
• Built/Completion: 2003-2004

• Client: Neue Heimat, gemeinnützige Wohnungs- und Siedlungsgenossenschaft in Steiermark GmbH, Graz

• Architect: DI Kurt Fandler, Graz

• Project consultants: AEE INTEC

• Address/Location: Theodor-Körner-Strasse 120, Graz, Austria

• Type of project: Multi-family house + Commercial building