

Petersbergenstrasse, Austria



Picture source: AEE INTEC

## Petersbergenstrasse, Two-family dwelling with solar collectors integrated in the façade

### PROJECT

The solar system at this two-family dwelling in Graz, contributes to domestic hot water preparation and space heating. The façade collector has been erected by the AEE INTEC on a timber frame construction. Total collector area is 55 m<sup>2</sup>.

The solar installation consists of three collector fields, 18.3 m<sup>2</sup> each. These fields have been pre-manufactured. The wooden back wall of the collector is fixed to the timber frames with steel angles. Only about 10 steel angles for the fixation have been arranged for each 18.3 m<sup>2</sup> collector field. This type of fixing causes almost no effect on thermal bridges.

The house Petersbergenstrasse is heated 100% with renewable energy.



Picture source: AEE INTEC

### **Key figures**

- Heated area: 260 m<sup>2</sup>
- 50 m<sup>2</sup> façade integrated solar collectors (10° south west oriented)
- 3750 l stratified water heat store
- Auxiliary heating: biomass boiler (pellets, 15 kW)
- Heat distribution: wall and floor heating

The solar system is a combined system, contributing to both domestic hot water preparation and space heating.

### **Solar collector:**

Glazed flat plate water collector  
Collector producer: AKS DOMA



Picture source: AEE INTEC

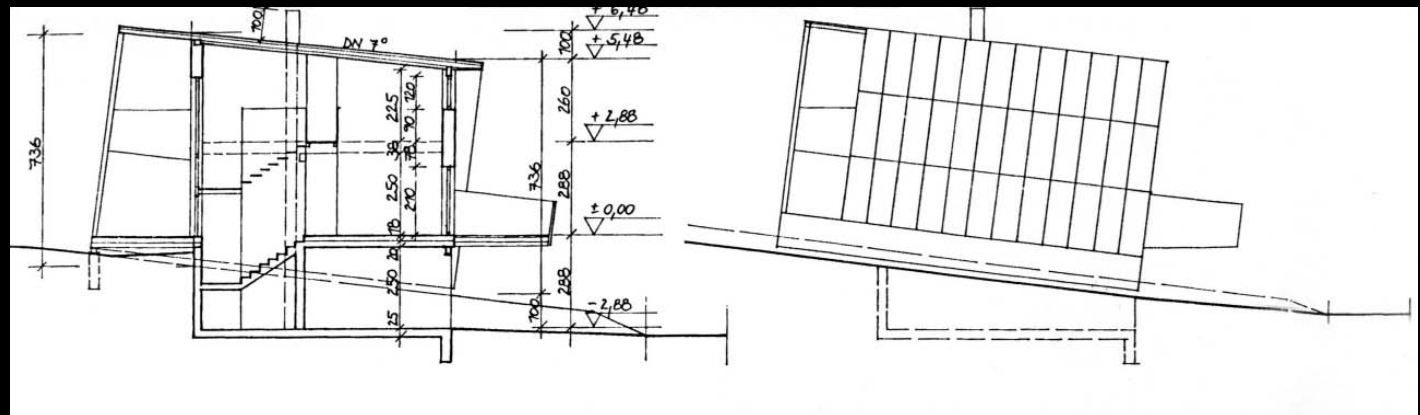


## GALLERY



PHOTOS;  
AEE INTEC

- Built/Completion:  
2001
- Architect:  
Arch. DI Albert Feldner
- Project management:  
Dipl.-Ing. Irene Bergmann/  
Ing. Werner Weiss,  
AEE INTEC,  
Arbeitsgemeinschaft  
ERNEUERBARE ENERGIE,  
Institut für Nachhaltige  
Technologien
- Address/Location:  
Petersbergenstrasse 194  
Hart bei Graz, Austria
- Type of project:  
Two-family dwelling



- Read more: <http://www.aee-intec.at/0uploads/dateien18.pdf>