House Oedegaard, Bærum, Norway

Photo: Aventa AS

Architectural integration of solar thermal energy systems
House Oedegaard, Bærum, Norway
Single-family house with solar collectors integrated in the façade

PROJECT

House Oedegaard is a modern brick house with solar collectors integrated as a part of the south façade. It is located in Bærum, 2 km outside of Oslo. Solar energy is utilized for both hot water preparation and space heating. A low temperature water-based floor heating system is used for space heating.

Auxiliary heating is provided by a biomass burner.

Collector area: 12 m²,
Heat store: 750 + 500 litre, water
Auxiliary heating: biomass

Photo: Aventa AS
**SOLAR COLLECTOR**

Type: Flat plate polymer collector
AventaSolar

Dimensions:
- **Width:** 600 mm,
- **Depth:** 66 mm,
- **Length:** various
- **Weight:** without water; 5.5 kg/m², water filled; 8.7 kg/m²

More info about the solar collector:

**ECONOMY**

Calculated solar energy cost is about 0.60 NOK/kWh (7.3 €cent/kWh).
GALLERY

PHOTOS; Aventa AS

- Completed: 2010
- Architect: Civil architect MNAL Erik Ødegaard
- Client: Stein Oedegaard and Elin Melby
- Address: Fagertunveien 54 B, 1357 Bekkestua
- Location: Oslo, Norway
- Project period: 2008-2010
- Type of project: single-family house