

# DETACHED HOUSE Sigwart

Schwaz, Austria



RESIDENTIAL

Detached house

The building services for this house were modernised according to the brief, which was to achieve the best possible energy efficiency and savings. An EnergyController regulates the storage of available solar energy in the different system areas with great efficiency, giving DHW heating priority. Excess solar energy is used to heat the indoor swimming pool. This enables substantial energy savings in this area. The system was designed with potential future expansion in mind.



## Project data

Object type	Detached house
Year of construction:	1980
Gross floor area (GFA):	250 m <sup>2</sup>
System:	Solar thermal system
Completion:	2006
Use:	Heating, DHW, swimming pool
Main components:	Existing oil central heating, solar thermal system 10 x IS-PRO 2H (20 m <sup>2</sup> ), 400 l solar tank and 1000 l buffer tank
Specialties:	EnergyController to manage storage tanks and swimming pool heating
Energy savings per year:	14,500 kWh/year
Reduction in CO <sub>2</sub> emissions per year:	2,070 kg CO <sub>2</sub> /year
Regenerative portion of energy demand:	48 %