

Nullenergiehaus Sunny Woods, Zürich - Höngg

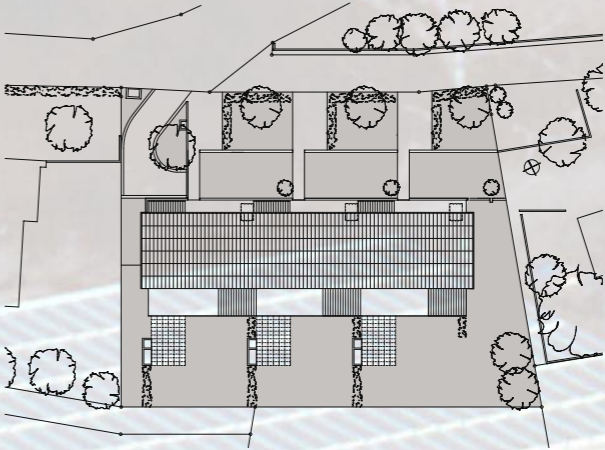
Switzerland`s first Zero-Heating residential project
Swiss Solar Prize 2002, European Solar Prize 2002

client: Kämpfen Bau GmbH, Zürich- Höngg
2002



Sunny Woods was erected using a brand-new timber technology. As one of first 4 storey apartment buildings in Switzerland it was **constructed with timber only**. The timber elements were manufactured at a carpentry to exact dimensions. It was extremely quick and easy to assembly them on site. The external walls of approximately 40cm thickness consist of a load bearing blockboard of only 3.5cm, leaving plenty of space for thermal insulation.

Sunny Woods combines modern design **with great living conditions**. Generous, bright rooms merge into private exterior spaces, individual solutions only known from free- standing family homes make everyone feel comfortable. For example, every unit can be entered through a private exterior door. The spacious apartments offer a variety of atmospheres in terms of lighting and proportions. To every unit belongs a ventilation system providing, fresh, clean and warmed air. It can be individually set as pleased whilst saving precious energy.



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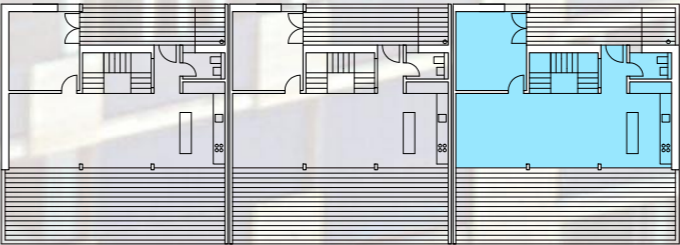
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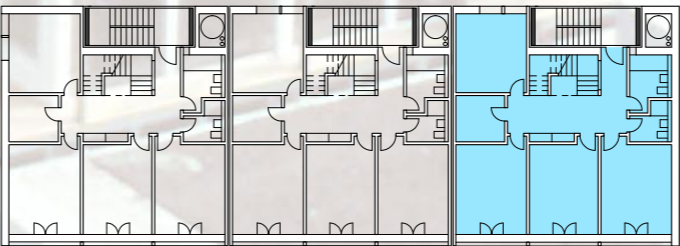
Sunny Woods was fitted with organic, toxic free materials offering a great place to live in tune with energy efficiency, sustainability and ecology. Cutting edge **national novelties** were applied the very first time such as:

- Sunny Woods is the first `Zero Heating` apartment complex
- Sunny Woods is the first 4 storey timber apartment house
- Latest technology on thin film solar modules installed all across the roof

Support and academic advice:
- Bundesamt für Energie: zwei Pilot-und Demonstrationsobjekte "Passivhausstandard" und "Fotovoltaikanlage".
- Elektrizitätswerk der Stadt Zürich: Stromsparfonds.
- Internationale Energieagentur: Energie-und Oekobilanzierung.

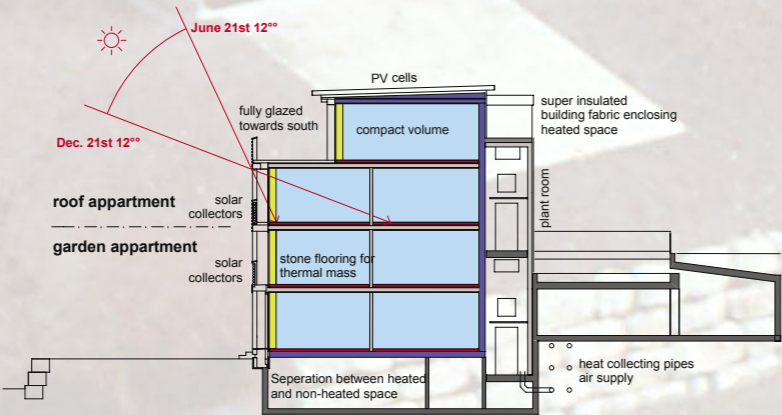


Top Floor



First Floor

On the edge of a small woodland of Zurich- Hoengg nestles Sunny Woods, Switzerland`s first **Zero-Heating residential project**. The energy consumption is only 10% of a traditional building. The remaining demand will be provided by the building itself and can be described as Zero- Energy. Along the clever passive- solar design of the building, the energy of the sun is also used in an active way: solar-tube-collectors act as a transparent balustrade for the balcony, the roof is equipped with photovoltaic cells. Heat recovery ventilation creates a comfortable atmosphere in every room.



facts & figures

Type:
Certification:
seasonal heating load:
heated area:
volume according to SIA 416:
costs per m3 BKP 2:

Zero-Heating project
Minergie ZH- 305
14 kWh/m2a
1'387 m2
7'700 m3
630 CHF/m3