

The Jenni system

45 years of experience in solar thermal energy



Jenni Energietechnik

www.jenni.ch

Solarpark Burgdorf



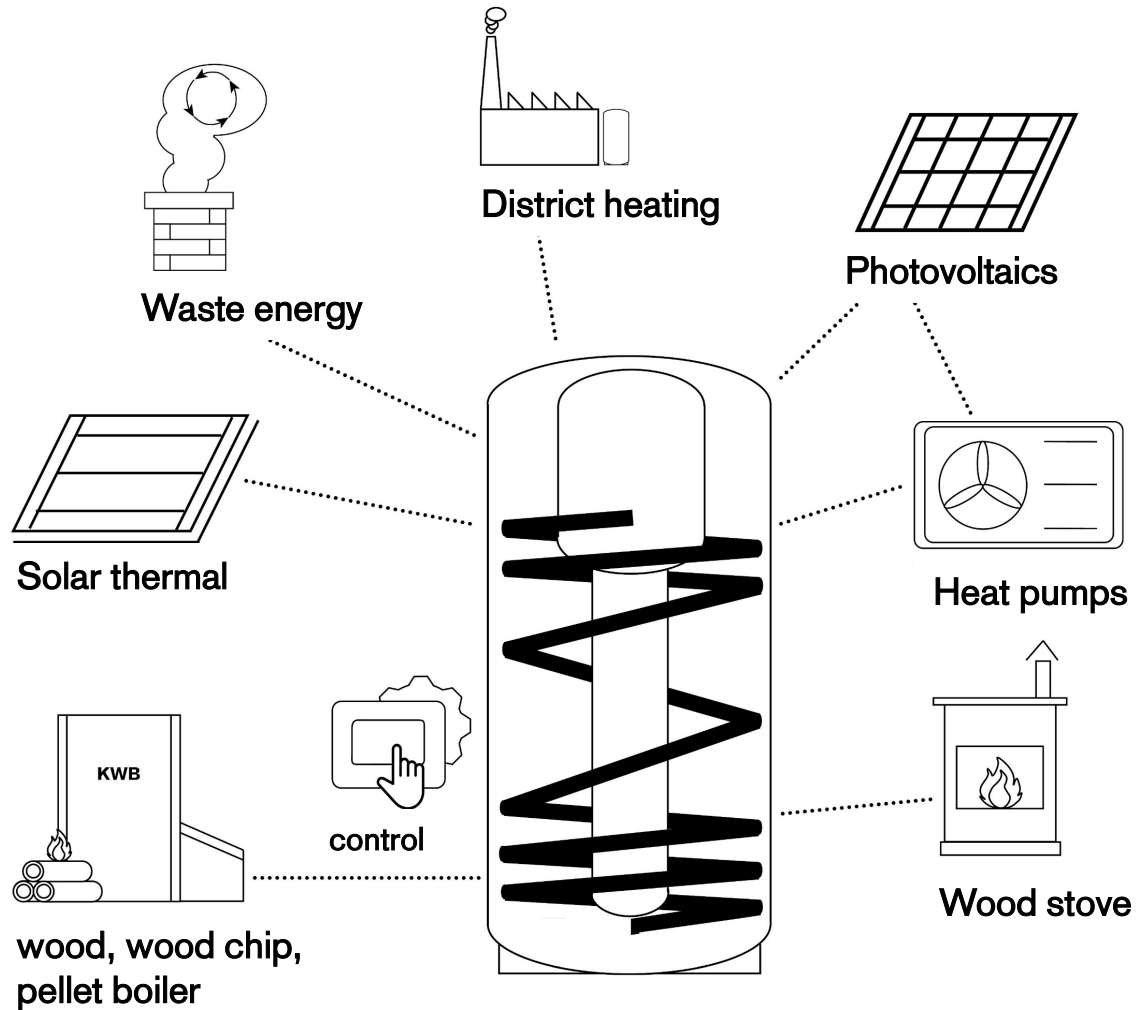


Josef Jenni

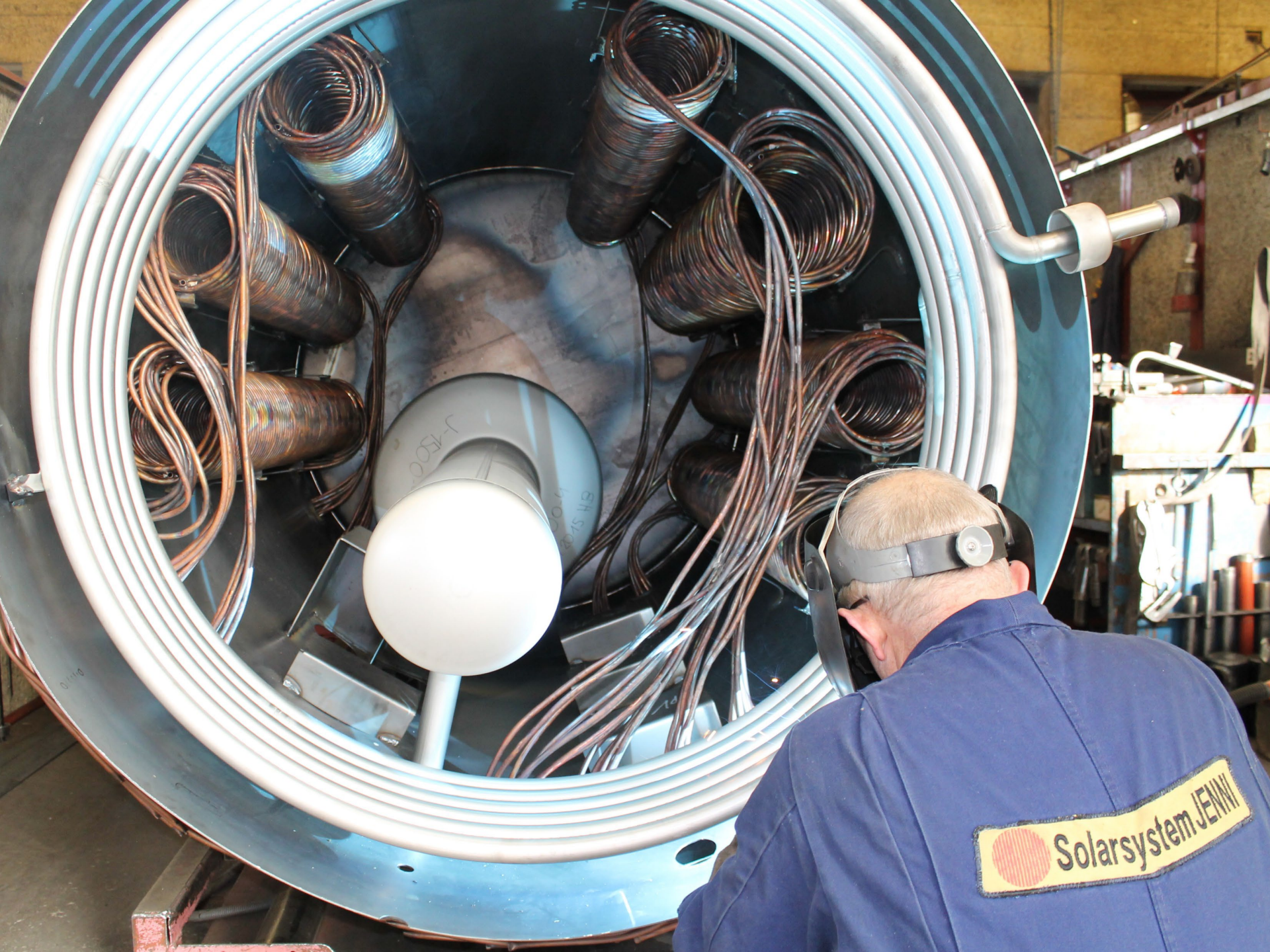


Home of the

Swiss Solartank®



 **SWISS MADE**



 Solarsystem JENNI

J-1500
BH 25 HB



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Simple but crucial physical principles



Machine for uncoiling







111 150 litres, district heating (wood chips)

18 000 litres, apartment building
(wood pellets and solar)

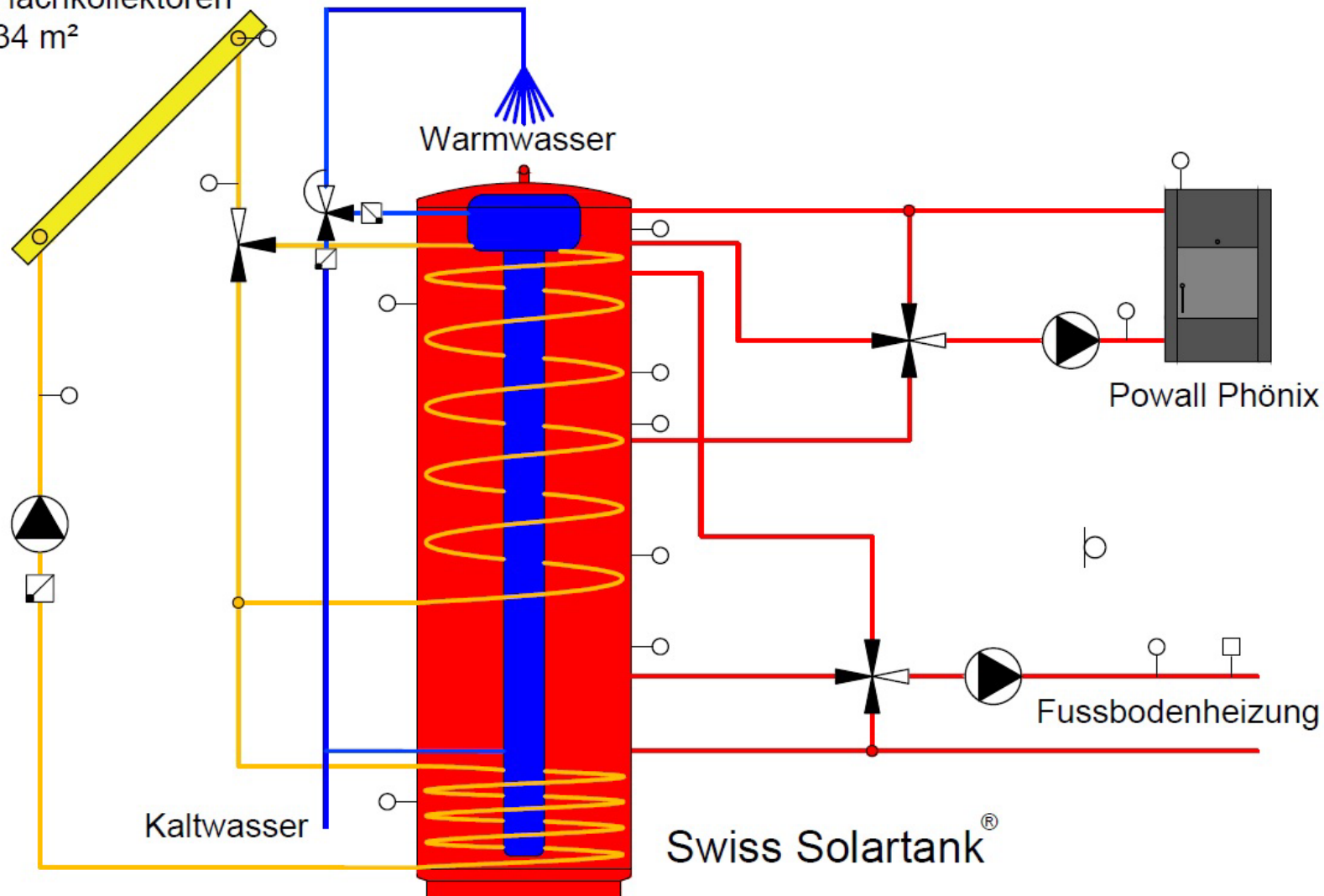
103 050 litres district heating
(heat recovery from waste water
and sugar production, wood)

3x 11 780 litres district
heating (wood chips)

Solar buildings



Flachkollektoren
34 m²



One-family solar home, 1989



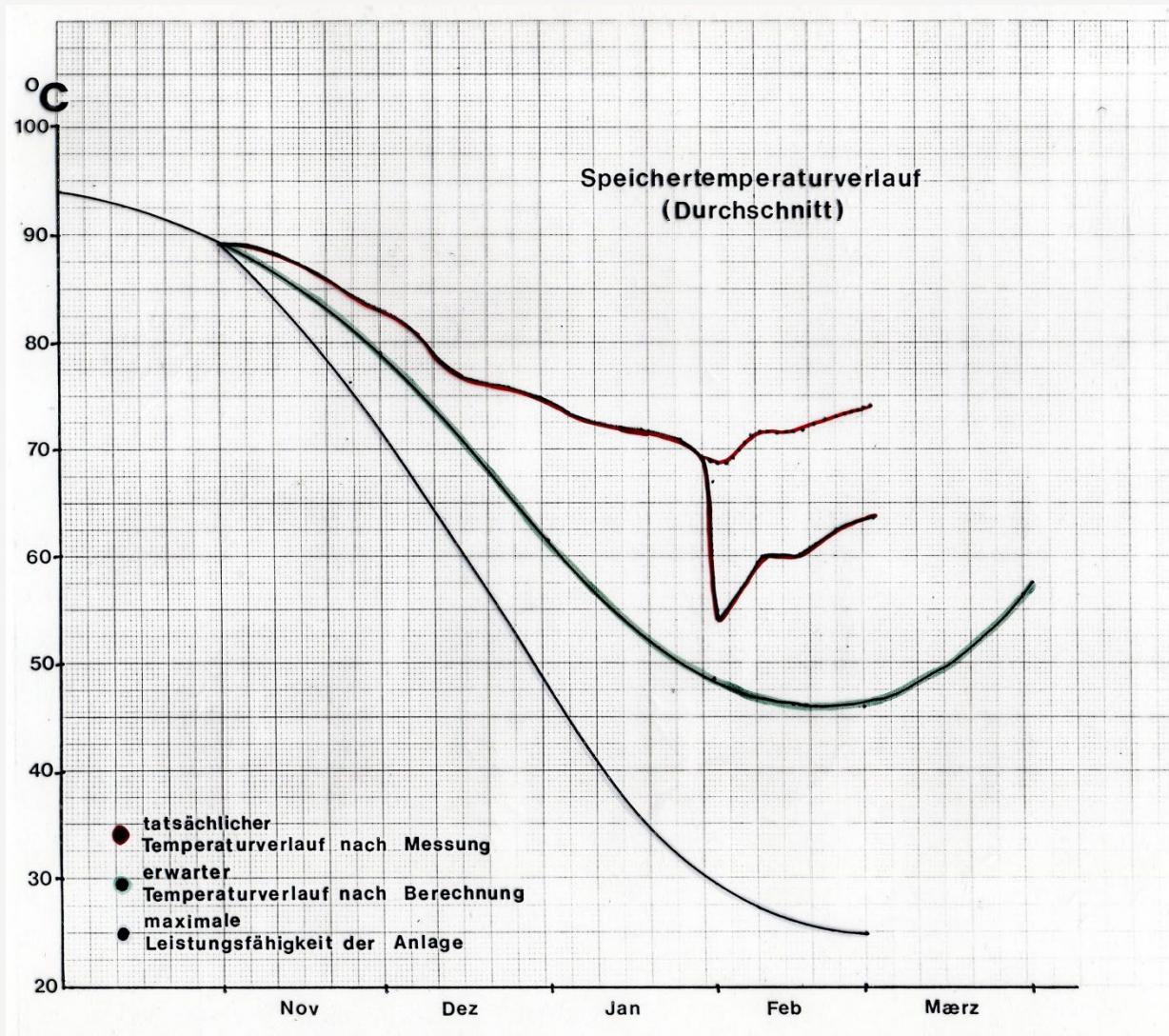
One-family solar home, 1989







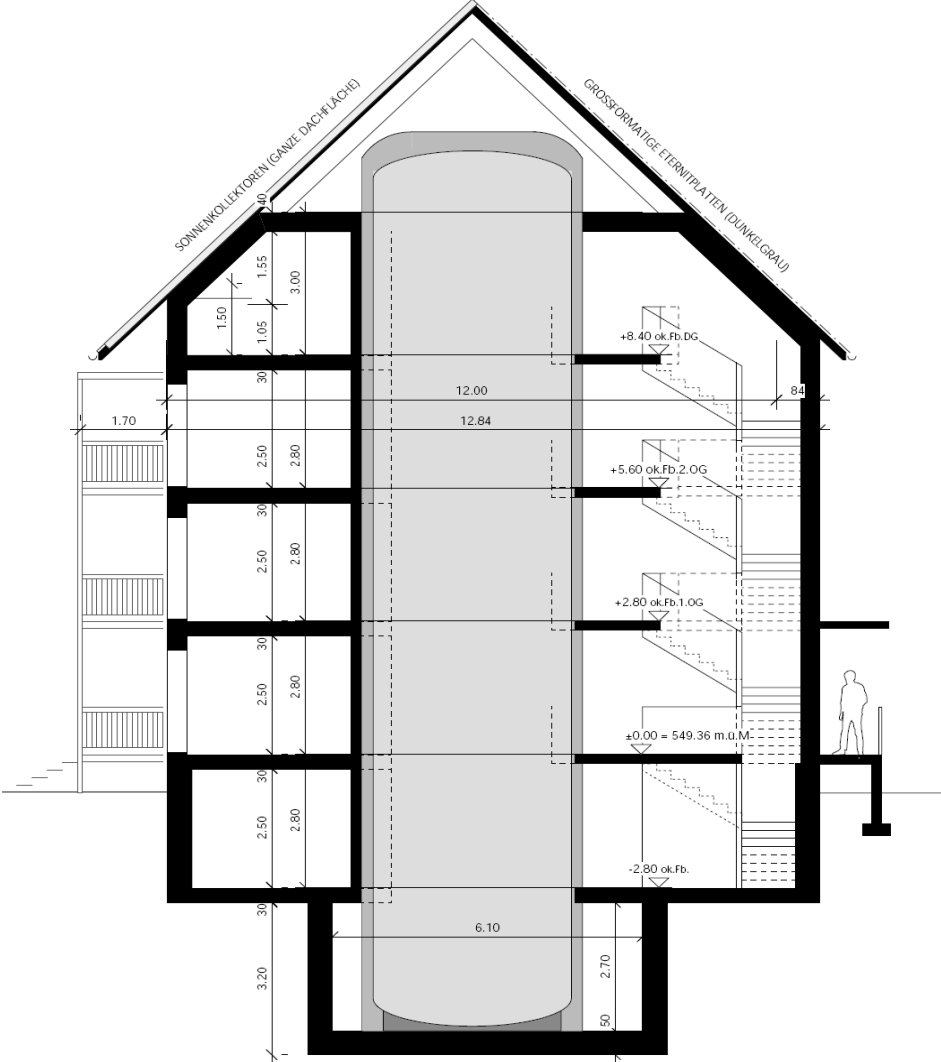
Temperature progression in the first winter



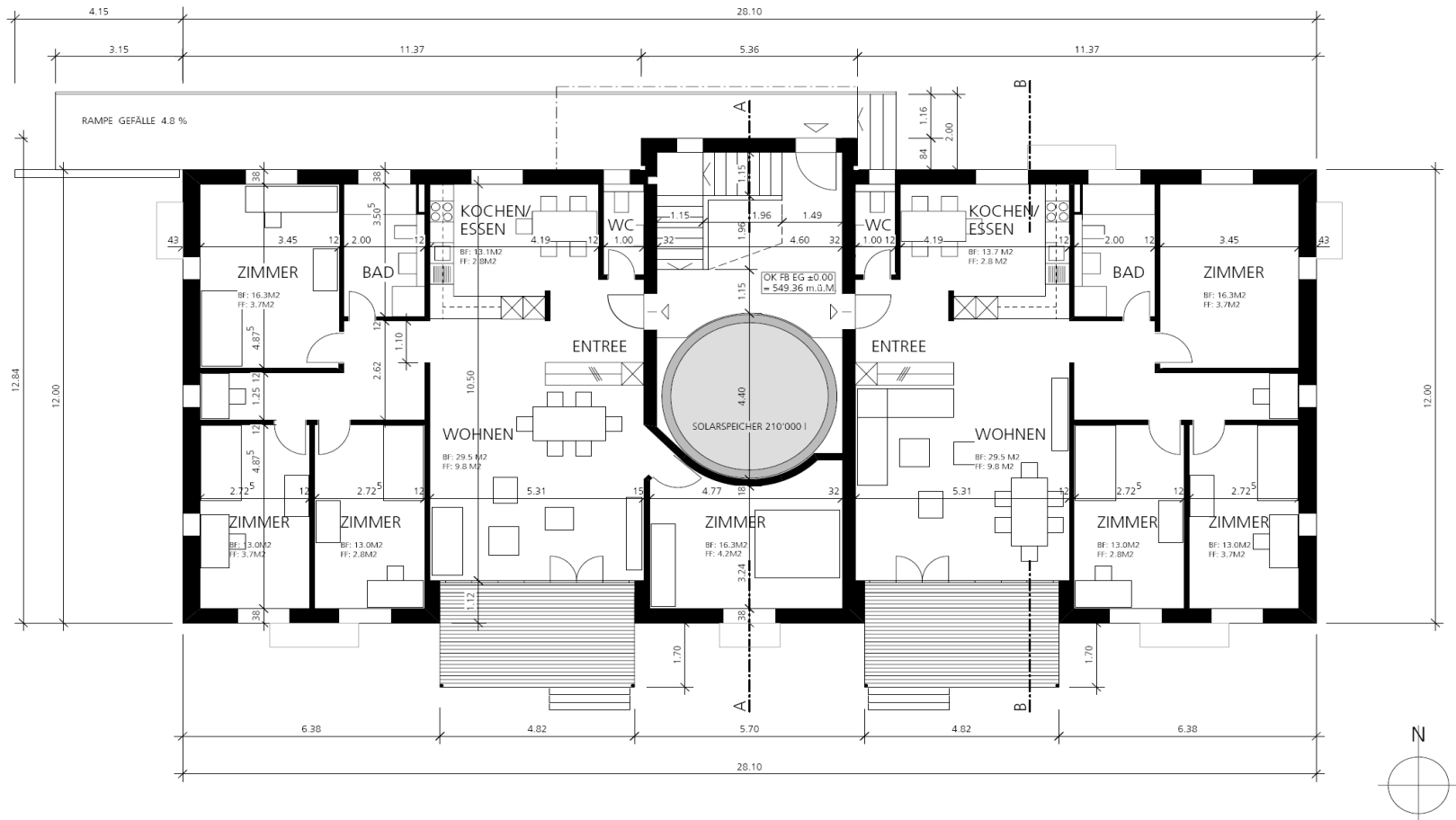
Winter, 31. Januar 1990



First 100% solar heated apartment building, 2005



First 100% solar heated apartment building, 2005

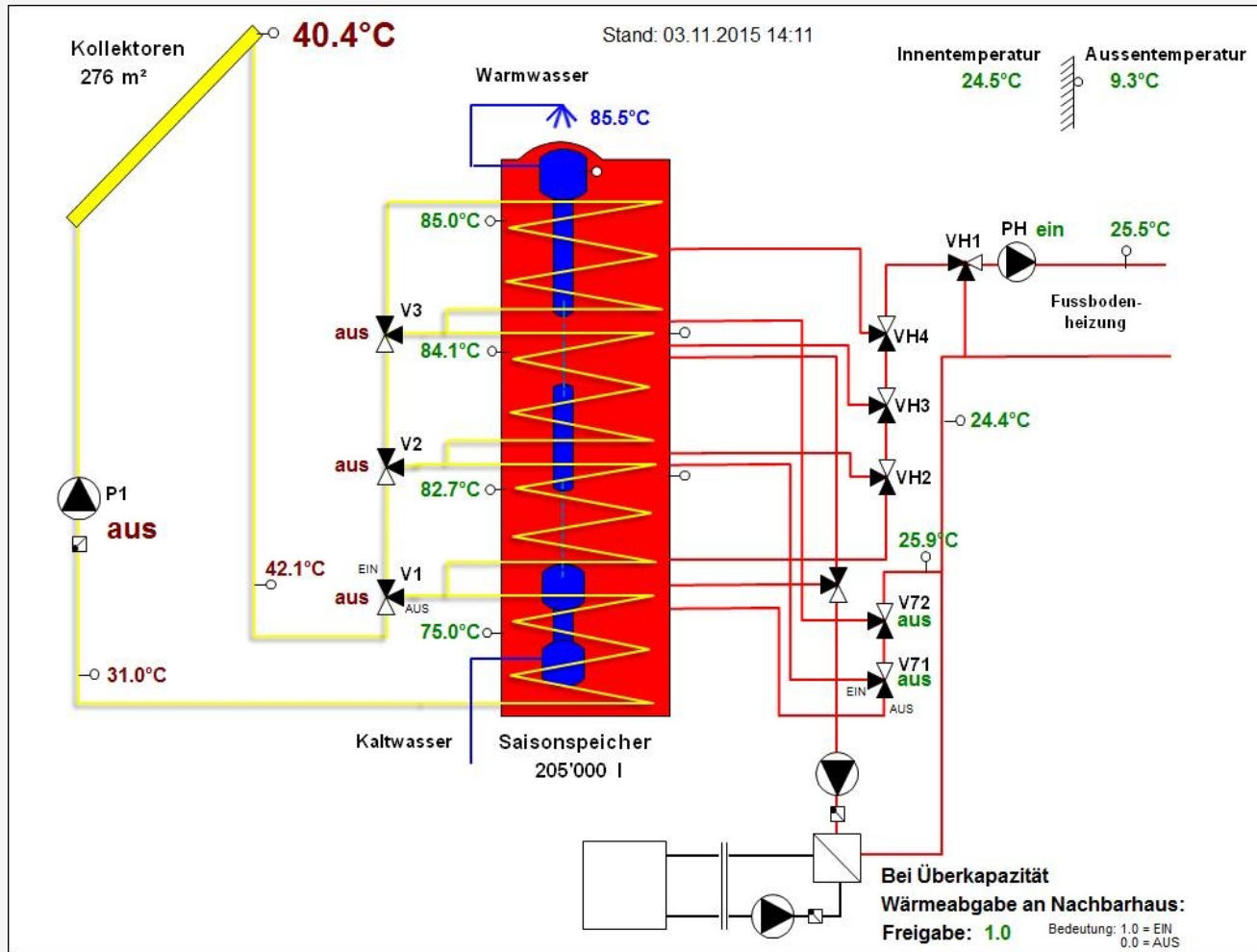




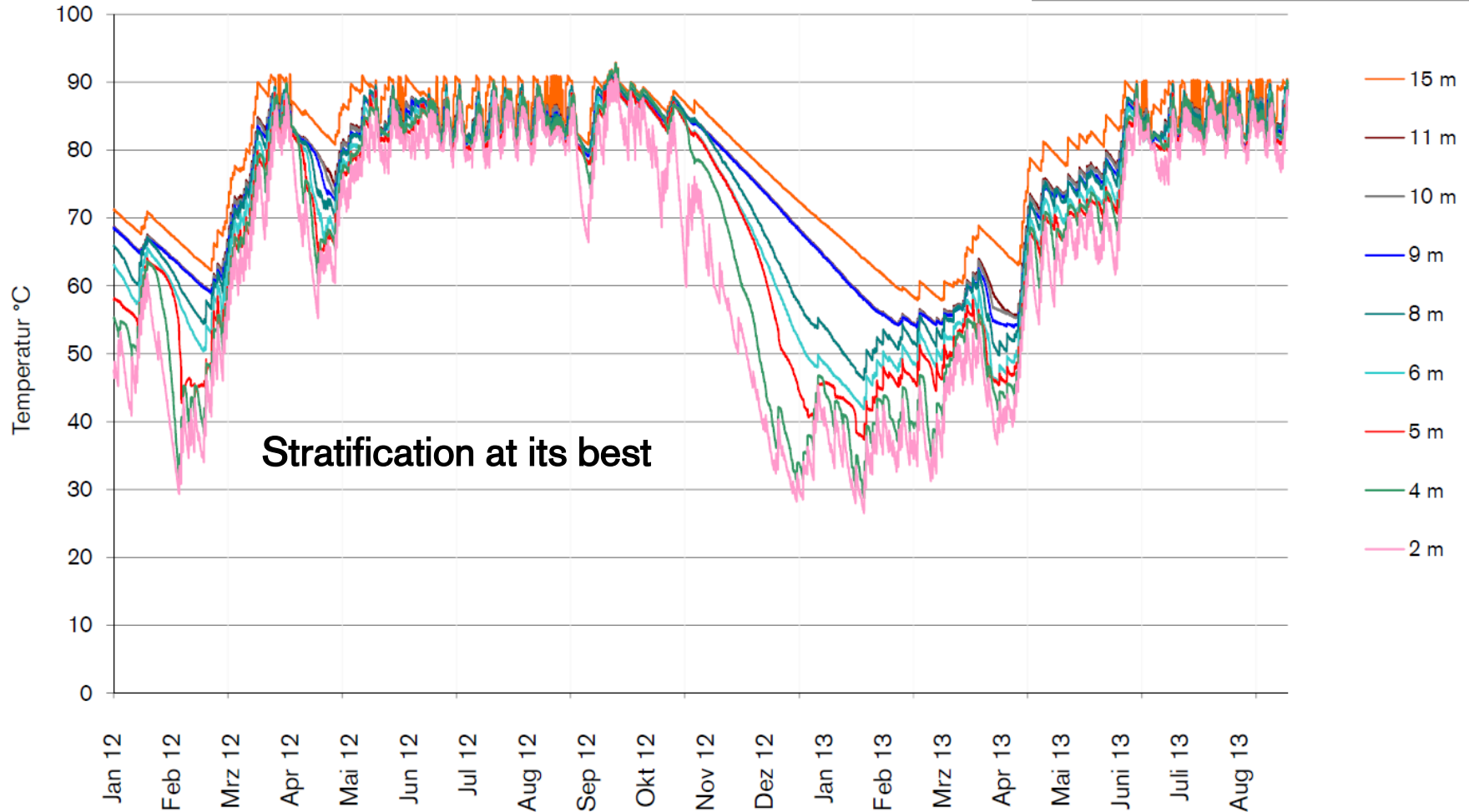
WC

KEMPPİ

The Jenni solar system



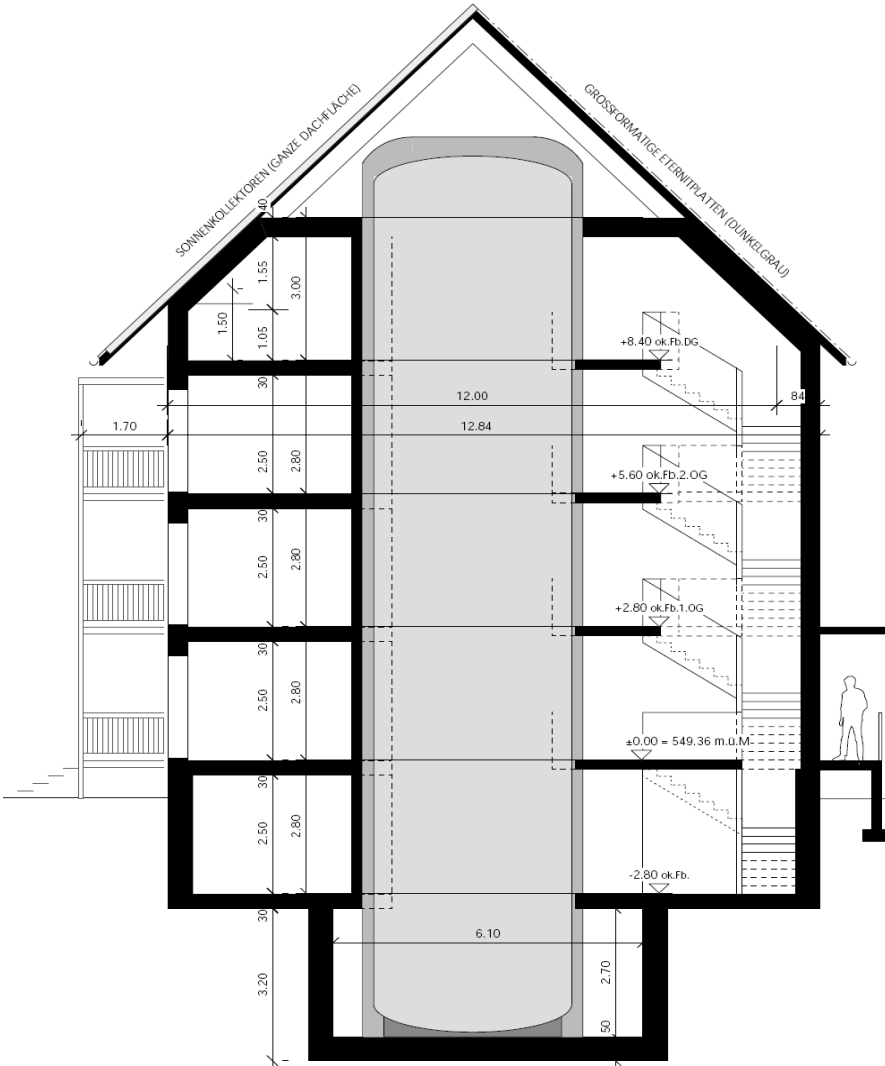
The thermal energy tank as an intelligent distributor



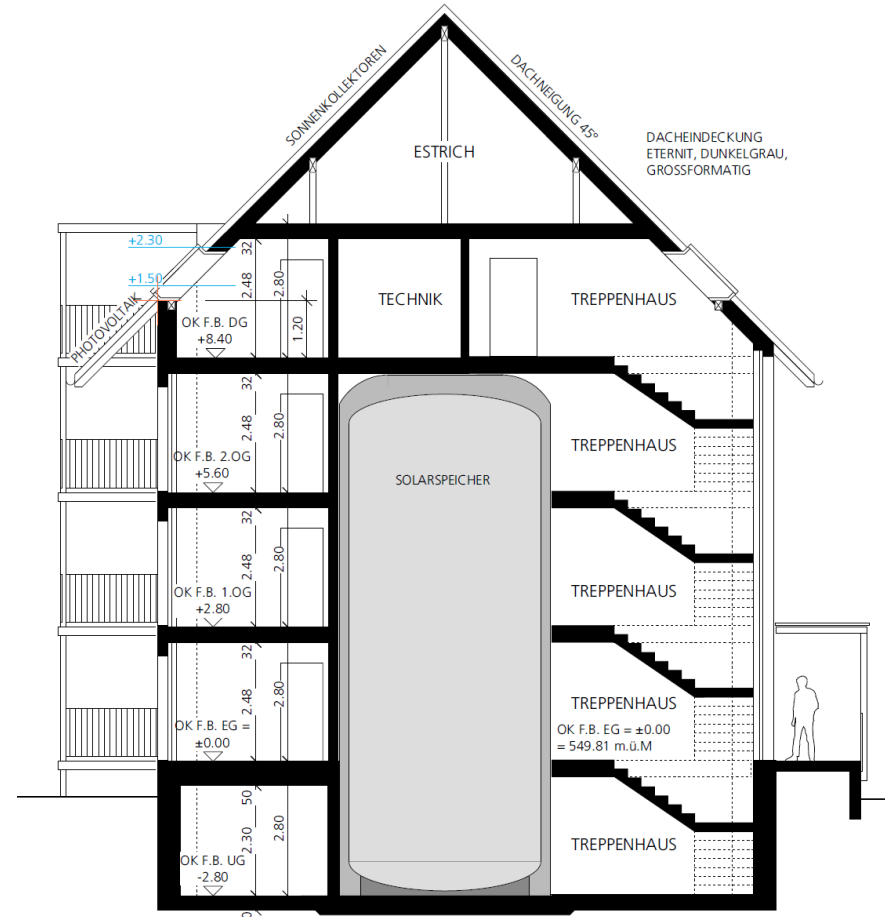




Tank volume of 205`000 l



Conceptual advancement Tank volume of 108`000 l





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Family home Bätterkinden

- 52m² collectors
- 9400l tank (4820 mm, Ø 1600mm)
- wood stove with heat exchange tubes
- 80% solar coverage

Elsenborn, Belgium

- 29m² solar thermal collectors
- 9400 litre Swiss Solartank
- solar coverage 60%



Family home in Valais / Swiss mountains

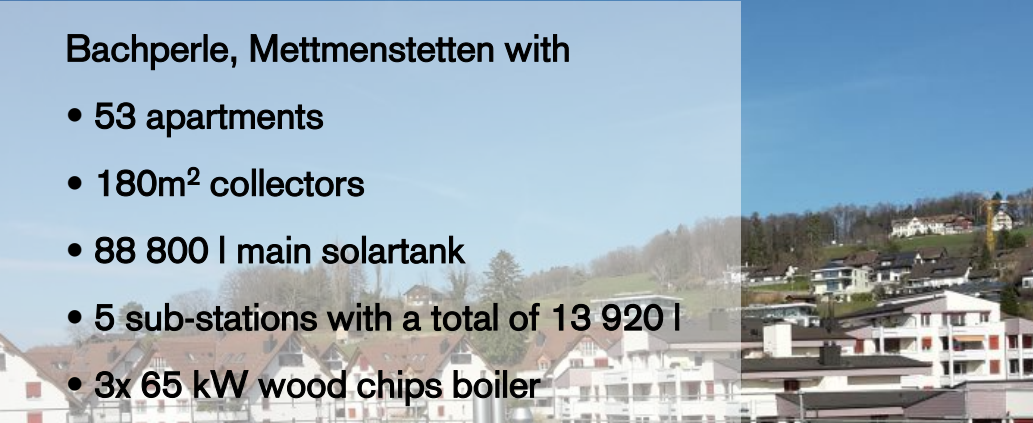
- 29m² collectors
- 2x 3610l solartank
- wood stove with heat exchange tubes

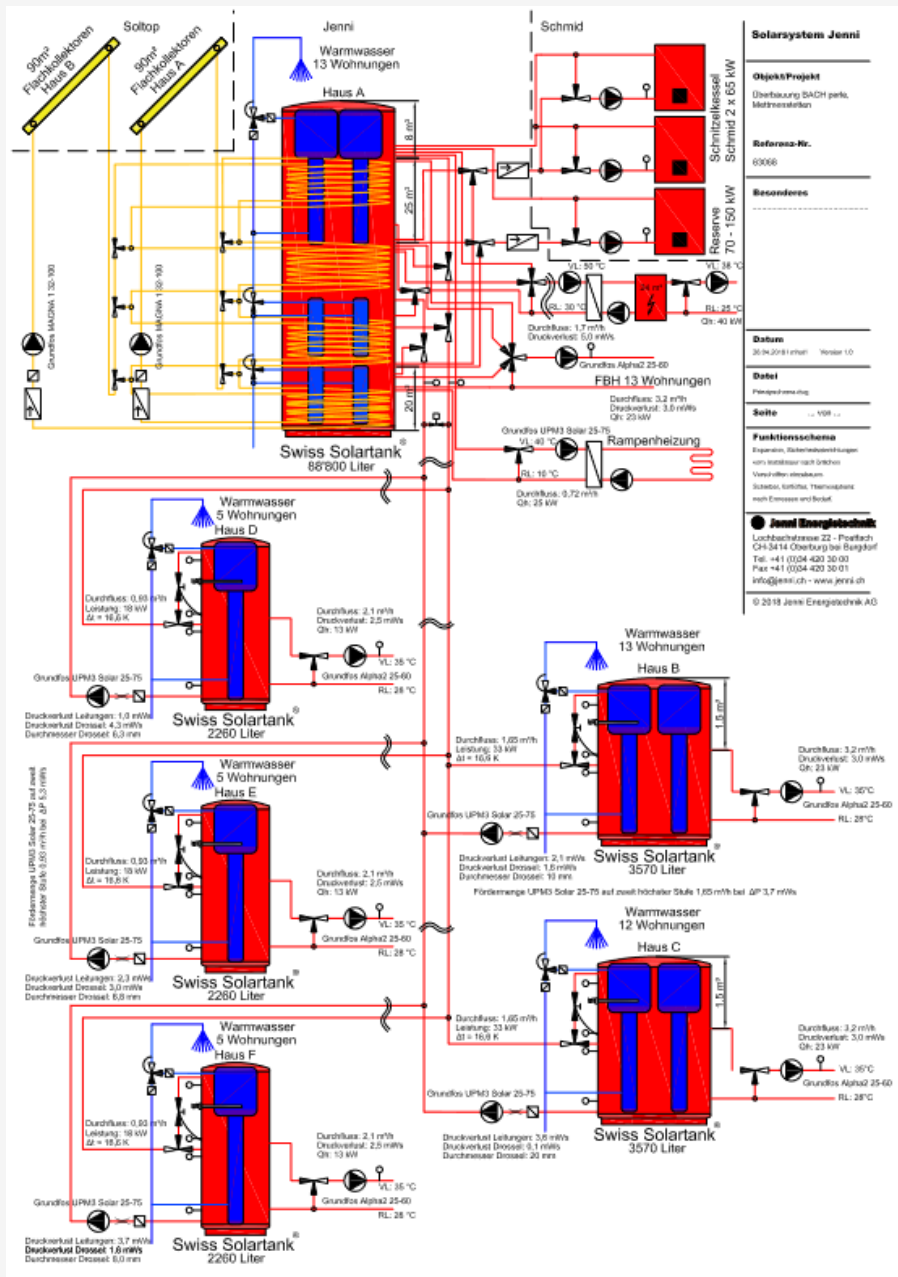




Bachperle, Mettmenstetten with

- 53 apartments
- 180m² collectors
- 88 800 l main solartank
- 5 sub-stations with a total of 13 920 l
- 3x 65 kW wood chips boiler







, existing building

erage



MFH Adliswil, VBAU

- 5 apartments
- 70m² collectors
- 28 140 l solartank
- 85% solar coverage
- mobile wood pellet boiler

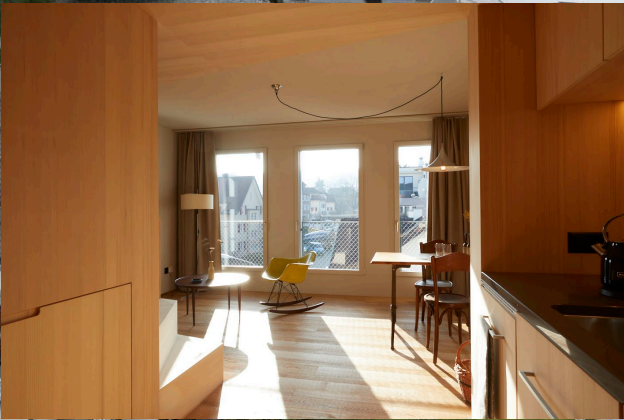




Denser living in Zürich VBAU

- 38m² collectors
- 57m² photovoltaics
- wood pellet boiler
- 5700 Litre Swiss Solartank
- additionally: greywater utilisation, etc.







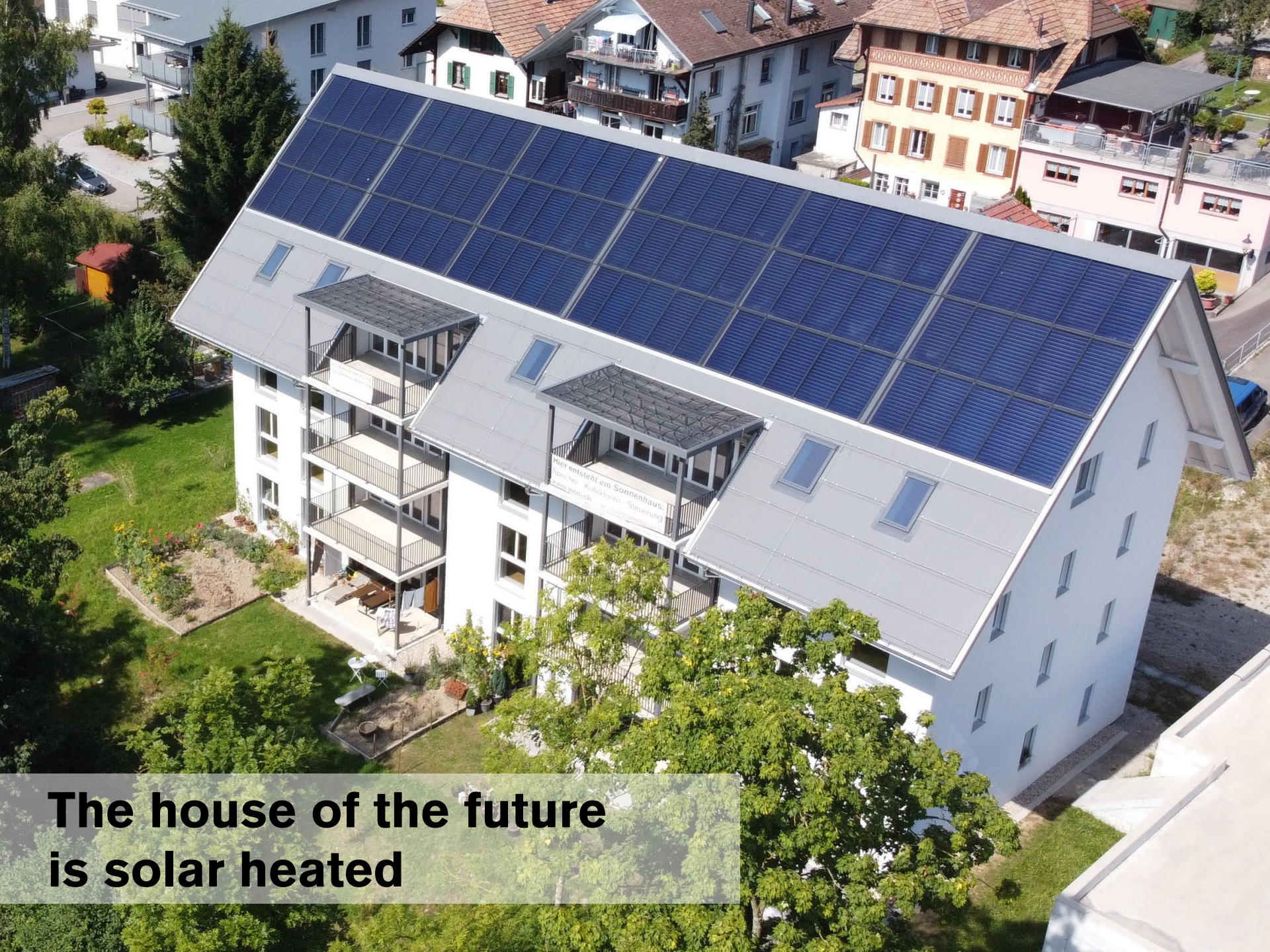
FASA AG, Solardomizil 3

- **310m² collectors**
- **70 000 liter Swiss Solartank**

The architectural challenge



3S Solar



**The house of the future
is solar heated**

Further possible advancements of the Jenni system (research by Swiss solar institute)

<https://pubdb.bfe.admin.ch/en/publication/download/10645>

Calculated costs per square meter by our partner FASA AG (German only)

<https://www.energiate-messenger.ch/news/184869/sonnenhaeuser-sind-begeehrt>

high solar coverage systems that perform economically the best, cover around 50-70% of heating and warmwater demand with solar energy

Family home, central Switzerland
20m² collectors
3900 liter tank (2100mm, Ø1600)
good insulation, big south-facing windows
70% solar coverage

 **Jenni Energietechnik**

