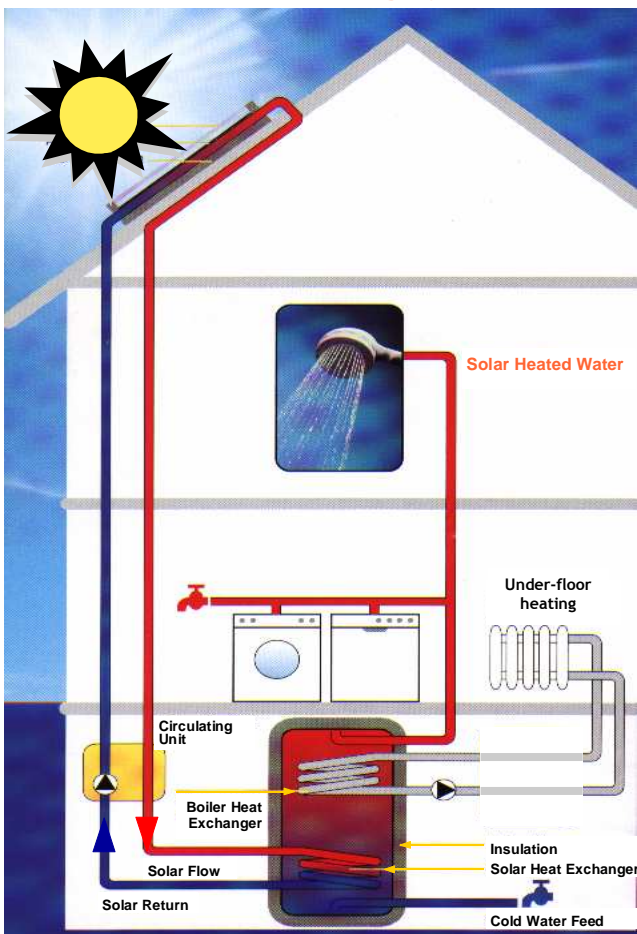




We generate energy!

Solar Water Heating System



How does it work?

This passive house is fitted with a sophisticated solar water heating system, supplying service hot water and making excess available to under-floor heating. The dual-coil solar cylinder is situated in the utility room. Solar panels and cylinder are connected by well insulated pipes, through which the heat transfer medium (water and solar anti-freeze) is being pumped. The solar radiation is converted into heat by the absorber inside the solar panel and then transported to the lower heat exchanger. The controller & sensors regulate the pump, ensuring that circulation only takes place when the temperature inside the panel is higher than at the bottom of the cylinder. Every system is fitted with safety valve, membrane expansion tank, air vent, thermometers, pressure gauge and fill & drain valve. Solar systems require minimal maintenance and guarantee high comfort levels. Solar energy provides cost-effective solutions to fight climate change and reduce our dependency on imported, polluting & expensive fossil fuels.

Project Information

- Ultra energy efficient house built to passive house standard
- Selectively-coated flat-plate collectors
- Solar collector surface area: 6 m²
- Solar collector tilt to horizontal: 35⁰
- Solar cylinder volume: 300 l