



EU GPP-Award

Winner 2016: **Stadtwerke Weilheim i.OB
Kommunalunternehmen, Germany**

Fully autarchic energy supply of electricity and heat from regenerative energies

The energy concept of the new Weilheim Municipal Utility building corresponds to the requirements of modern and sustainable building technology. It includes an energy efficient building shell, a wood chip power station with a 300 kW capacity, a thermal heat pump with 60 kW and a solar power system with 400 kWp on all roofs. A special feature is the ice storage of the building, which uses an innovative combined heat and cooling system and which is deployed as a heat accumulator in the winter time. Thus the building shell is heated by so called crystallization energy, which serves as a source of warmth. Water stored during the summer is heated by solar air collectors. In the winter, the energy contained in this heated water is then continuously extracted via a thermal heat pump to heat the building.

The Oberland GmbH solar centre of Weilheim received the acceptance for the construction and installation of the solar power system. The Municipal Utility of Weilheim executes performance monitoring as well as the maintenance and measurement logs for the facility. Oberland is informed of any significant deviations in light of the warranties and maintenance.