

STURM ROOF-MOUNTED SYSTEM

Salching



System name:	Sturm Roof-Mounted System
Operator:	Wilhelm Sturm
Energy company:	Stadtwerke Straubing
Location:	Salching (Germany)
Commissioned:	June 2007
Completion time:	10 weeks

Technical data

Rated system power	940 kWp	No./type of modules	13,680 First Solar FS-267 and FS-270
Annual energy yield	approx. 845,000 kWh	Inverter	18 x Fronius IG 400, 6 x Fronius IG 500
Feed-in tariff/kWh	EUR 0.4665	Construction type	roof-mounted system
Feed-in tariff p.a.	approx. EUR 395,000	Tilt angle	10°
CO₂-savings p.a.	approx. 780,000 kg*	Frame technology	Tecto-Sun Plus mounting system
		Orientation	east/west

* Source: German CO₂ offset calculation (0.932 tonnes of CO₂ avoided per MWh) based on data from BMU AGEE (Arbeitsgruppe Statistik Erneuerbare Energie) 2006.

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Wilhelm Sturm, Managing Director of Sturm GmbH, is fascinated by the innovative thin-film technology, and today is already looking forward to the performance added value of the next 20 years.

“With the solar system I can use my roof space in a sensible way and at the same time protect the environment. This combination and the absolutely perfect project management of the system planning and installation have convinced me of the 100% positive partnership with Phoenix Solar.”

Solar energy takes company by storm with clear arguments

The inauguration of the new solar energy system on the roofs of the Sturm Gruppe (meaning „storm group“) in Salching, Lower Bavaria, was quite literally a stormy celebration. This solar power plant with a total capacity of almost a megawatt (940 kWp) is one of the largest in the region, and was installed by Phoenix Solar at a nigh-on record-breaking tempo in just ten weeks.

The fundamental requirements for the punctual realisation were the innovative system concept, and close cooperation between Phoenix Solar’s construction management and the company Sturm’s logistics.

In total, 13,680 thin-film modules from the manufacturer First Solar were installed. The mounting system chosen was Tecto-Sun Plus from Phoenix Solar, as this was perfectly suited to the roof structure.

To avoid excessive wind loads on the roofs, the solar modules were installed parallel to the roof surface, so additional elevated mounts were not required.

The target yield of over 900 kWh/kWp was largely achieved due to a sophisticated system of thin-film modules and a distributed inverter concept.

The Tecto-Sun Plus mounting system was chosen due to the roof supports’ wide spans.

