ANTON ZIEGENAUS SAWMILL
Schiltberg / Höfarten

System name:	Anton Ziegenaus Sawmill
Operator:	Anton Ziegenaus
Energy company:	E.ON Bayern AG
Location:	Schiltberg / Höfarten (Germany)
Commissioned:	May 2006
Completion time:	4 weeks

Technical data

Rated system power	285 kWp
Annual energy yield	approx. 267,000 kWh
Feed-in tariff/kWh	EUR 0.493
Feed-in tariff p.a.	approx. EUR 130,000
CO_2-savings p.a.	approx. 246,000 kg*

No./type of modules	4,385 x First Solar FS-265
Inverters	3 x Fronius IG 400, 1 x Fronius IG 500, 14 x Fronius IG 60, 6 x Fronius IG 40, 4 x Fronius IG 30, 4 x Fronius IG 15
Construction type	roof-mounted system
Tilt angle	8°
Frame technology	module substructure specially developed for this project due to roof supports' wide spans
Orientation	east/west

* Source: German CO_2 offset calculation (0.932 tonnes of CO_2 avoided per MWh) based on data from BMU AGEE (Arbeitsgruppe Statistik Erneuerbare Energie) 2006.

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Ecological philosophy combined with commercial interests. Anton Ziegenaus banks on solar added revenue for his sawmill.

"With Phoenix Solar, I had a good feeling right from the beginning, that they understood me as an entrepreneur. Thanks to the good planning in advance, the implementation went very smoothly."

How an innovative sawmill makes the grade ecologically

The Ziegenaus sawmill in Höfarten, near Aichach (Germany) combines a long-standing company tradition with state-of-the-art saw systems. By deciding to install a solar power plant on the sawmill's roof, the entrepreneur Anton Ziegenaus successfully harmonised the company's closeness to nature with innovative solar technology.

After a planning phase of just four months, the solar power plant with a total capacity of 235 kWp was connected to the grid and several months later expanded by another 50 kWp. The project plan for this system was devised in consultation with a project manager from Phoenix Solar. This enabled close cooperation between the two parties. The positioning of the inverters was of particular significance in the system planning. The exhaust air from the sawmill is heavily contaminated with sawdust. In order to prevent this from damaging the inverters, it was necessary to keep the inverters separate from the exhaust air and install them in a special housing.

The entrepreneur is highly satisfied with his decision: already in the first four months of operation, about 10% of the system's investment costs have been amortised.

Walkways between the module rows were installed during the planning phase, and enable easy access for maintenance and cleaning work.

Phoenix Solar AG, Solar Power Plants Division
Schillerstrasse 1/6, D-89077 Ulm, Germany
Tel. +49 (0) 731 14 05 4-10, Fax +49 (0) 731 14 05 4-19
powerplants@phoenixsolar.com

www.phoenixsolar.com

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