ROOF-MOUNTED SYSTEM
Mantova, Italy

Project data

System name:	Azienda Agricola Pedrazzoli
Operator:	Elettrotecnica F.lli Vanini
Energy company:	Enel Distribuzione
Location:	San Giovanni del Dosso - Mantova (Italy)
Commissioned:	June 2010
Completion time:	6 weeks

Technical data

Rated system power	199.9 kWp
Annual energy yield	234,430 kWh
Feed-in tariff/kWh	EUR 0.4431
Feed-in tariff p.a	EUR 103,875.93
CO_2-savings p.a.	124,482.33 kg*

No./type of modules	1,999 Schott Solar ASI100
Inverter	9 x Fronius IG Plus 150 9 x Fronius IG Plus 120
Construction type	Roof-mounted system
Tilt angle	15°
Frame technology	TectoSmart
Orientation	South-East/South-West

* Source: 0.531 kg CO_2/kWh (Ministry for the Environment - Ministero dell'Ambiente e della Tutela del Territorio e del Mare, 2010)

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Luca Pedrazzoli, owner and president of Azienda Agricola Pedrazzoli

"Thanks to Phoenix Solar, our company can be considered energy-efficient and at the same time, we respect the environment reducing CO_2 emissions related to our consumption of energy."

Green Energy for breeding

The company had already decided to replace the asbestos roofs from the breeding' sheds.

Phoenix Solar suggested to take the opportunity to achieve a fully integrated photovoltaic system, and to benefit from the increase of 5 % of the price incentive defined by the Conto Energia (bonus for energetic-efficiency).

The mounting system we chose is TectoSmart from Phoenix Solar which ensures the full integration. In total, 1,999 Schott Solar modules were installed on the roof of seven sheds.

In addition, specific structures solutions have been implemented to reduce the fouling problems due to periodic cleaning of the sheds internal areas.

As in any business, our main challenge was to synchronize the installation work with the replacement of the roofs in order to reduce the downtime of the company.

Thanks to a great team of fitters and to a coordinated and efficient team work, the power plant was completed within the time schedule given.

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