

CARPORT PIADENA Piadena, Italy



Project data

System name:	Carport Piadena
Operator:	CIC PV Project Italia Piadena Sas di Green Utility Italia Srl & C.
Energy company:	ENEL / GSE
Location:	Piadena, Italy
Commissioned:	December 2010
Completion time:	14 weeks

Technical data

Rated system power	5.89 MWp	No./type of modules	16,420 units monocrystalline, 8,280 units polycrystalline modules from Solarwatt AG in Dresden (Germany)
Annual energy yield	approx. 7,068 MWh	Inverter	9 units SMA SC 630 HE-11
Equivalent to the power consumption of	approx. 1,617 families**	Construction type	ground-mounted carport construction
Feed-in tariff/kWh	EUR 0.423	Tilt angle	10°
Feed-in tariff p.a.	EUR 2,989,764	Frame technology	Schletter
CO ₂ -savings p.a.	approx. 3,753.1 t*	Orientation	South

* Source: 0.531 kg CO₂/kWh (Ministry for the Environment - Ministero dell'Ambiente e della Tutela del Territorio e del Mare, 2010)

** Source: 4,370 kWh for a family of 3-4 persons (Ministry for the Environment - Ministero dell'Ambiente e della Tutela del Territorio e del Mare, 2010)

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“Functionality and sustainable business management – all rolled into one in the solar carport in Piadena and literally under one roof. While around 24,700 solar modules above convert the Italian sun into green energy, underneath there are thousands of new vehicles protected from dirt and the weather waiting for delivery. What a good thing that we had a partner with the right expertise for this large project: Phoenix Solar.”

Dr. Jürgen Müller,
General Manager of SOLARWATT PV Italia GmbH
Executive Manager of SOLARWATT AG, Dresden

Under one roof: functionality and sustainability

The grounds of logistics company Altmann in Piadena in Italy are huge, covering around 13 hectares: room enough for up to 6,000 vehicles and trucks separated into four areas – expensive vehicles now all under a protecting roof with an eave height of 3.8 meters which carries 24,700 SOLARWATT crystalline modules producing electricity. This solution is a clever synthesis of practical use and good return on investment or, quite simply, one of the world’s largest solar carports.

As the EPC contractor commissioned by SOLARWATT PV Italia GmbH, Phoenix Solar was responsible for the planning and construction of the entire plant. A determinant factor for awarding the contract to Phoenix

Solar was the company’s experience and know-how in building solar carports, along with its international competence. All very necessary as the size of the project and the short construction phase of only 14 weeks were particularly challenging.

Despite partly bad weather and delays in the delivery of components, the roofing was completed in time before the end of the year. The solar carport not only shelters the new vehicles but also makes a contribution to climate protection. After all, this double-layer shield, producing an annual energy yield of more than 7 million MWh, also supplies 1,600 families with green energy. There are plans to extend the carport to cover more of the area.

