

SOLARPARK PARKING LOT Berlin Spandau, Germany



Project data

System name:	Photovoltaik Parking Lot
Operator:	MW Solar Consulting GmbH
Energy company:	Vattenfall Europe AG
Location:	Berlin/Spandau (Germany)
Commissioned::	December 2009
Completion time:	8 weeks

Technical data

Rated system power	0.998 MWp	No./type of modules	7 x 528 Suntech STP270-24/Vd
Annual energy yield	approx. 805.95 MWh	Inverter	7 x 6 SMC 7000TL 7 x 9 SMC 10000TL
Equivalent to the power consumption of	approx. 200 families**	Construction type	Roof-mounted system
Feed-in tariff/kWh	EUR 0.399	Tilt angle	Row 1: 15°, row 2-8: 18°
Feed-in tariff p.a.	approx. EUR 321,572.45	Frame technology	Schletter Park@Sol Carportsystem
CO ₂ -savings p.a.	approx. 463.4 tons*	Orientation	South

* Source: The evolution of carbon dioxide emissions within the German power mixture 1990-2008: 0.575 tons CO₂ saved per MWh (Umweltbundesamt FG I 2.5., Status March 2010)

** Source: Average power consumption of a family: 4,000 kWh (Verivox, Status 2010)

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Markus Wahle
Managing Partner, MW Solar Consulting GmbH

"Realising our ambitious project could only have been done with an experienced partner. Having gone through an extensive selection procedure we found the partner we were looking for: Phoenix Solar was convincing, not only in terms of its expertise but also because of the pleasant way we all worked together. And our investors were also entirely happy with the decision because, despite the extreme weather conditions and unforeseen events, the plant was connected to the grid by the deadline."

From parking lot to solar park

Cars need somewhere to park. But using such a valuable surface area on the property of Police Headquarters 2 in Spandau just for cars was simply not enough for Berliner Immobilienmanagement GmbH in the long term. The company therefore decided to commission the City of Berlin, Bummiller Neue Energien GmbH and MW Solar Consulting GmbH to develop a concept for a viable, additional use of the parking lot. The result is Germany's currently largest photovoltaic plant on a carport.

A partner with the requisite know-how gathered over a period of more than a decade in building plants of this dimension was selected to carry out the ambitious large-scale project: Phoenix Solar AG. After all, the task involved installing around 3,700 mod-

ules in only eight weeks and connecting Berlin's most powerful solar power plant to date to the grid. The whole installation process was carried out with the aid of aerial access platforms, allowing the car park to be used at least some of the time.

Thanks to the experience and the logistics competence of Phoenix Solar AG, all challenges were overcome despite the long, severe winter. Even the discovery of buried munitions did not stop the plant from going online by the due date! Since the end of December 2009, some 200 families in Berlin have been supplied with clean electricity and the investors with their secure returns. And cars now park beneath the power plant, which keeps them dry and protected from the weather.

