

## VOLKSWAGEN CHATTANOOGA SOLAR PARK

Chattanooga, Tennessee, USA



### Project data

System name:	Volkswagen Chattanooga Solar Park
Owner and operator:	Silicon Ranch Corp.
Solar electricity consumer:	Volkswagen
Location:	Chattanooga, Tennessee, USA
Completion:	December 2012
Completion time:	6 months

### Technical data

Rated system power	9.5 MWp	Inverter	SMA
Annual energy yield	13.1 GWh	Construction type	Ground-mounted system
Equivalent to the power consumption of how many families	~ 1,200 families *	Tilt angle	25°
CO <sub>2</sub> -savings p.a.	~ 9,243 t **	Frame technology	Unirac
No./type of modules	33,600 JA Solar, JAP6-72-285	Orientation	South

\* Source: "In 2010, the average annual electricity consumption for a U.S. residential utility customer was 11,496 kWh, an average of 958 kilowatthours (kWh) per month." (U.S. Energy Information Administration (EIA): <http://www.eia.gov/tools/faqs/faq.cfm?id=97&t=3>), as of January 2013

\*\* Source:  $7.0555 \times 10^{-4}$  metric tons CO<sub>2</sub> / kWh (US Environmental Protection Agency (EPA), eGRID2012 Version 1.0, U.S. annual non-baseload CO<sub>2</sub> output emission rate, year 2009 data: <http://www.epa.gov/cleanenergy/energy-resources/refs.html>), as of January 2013

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### Chattanooga, Tennessee, USA

#### Phoenix Solar builds largest solar park in Tennessee at Volkswagen car manufacturing facility

- Solar park supplies around 12.5 % of auto factory's power needs during full production
- Largest PV-installation for VW world-wide
- First car manufacturing facility in the world to receive platinum LEED certification

The California based subsidiary of Phoenix Solar AG, Phoenix Solar Inc., partnered with Silicon Ranch Corp. and Volkswagen to build the largest solar park at a U.S car factory and the biggest ground-mounted solar park in Tennessee.

The 9.5 megawatt (MWp) solar system is located on 33 acres adjacent to VW's manufacturing plant in Chattanooga, Tennessee, and will produce around 13.1 gigawatt hours (GWh) of electricity per year.

Phoenix Solar provided development and full EPC (Engineering, Procurement and Construction) services for the project as general contractor and was selected because of its global leadership in large scale solar power plant construction, its competitive local permitting know-how and resources.

The electricity produced from the solar park will meet around 12.5 percent of the energy needs of the Chattanooga manufacturing plant during full production, and 100 percent during non-production periods.

Phoenix Solar's strategic partner, Silicon Ranch, a developer and operator of utility scale solar facilities, owns and manages the solar park. The electricity generated will be consumed entirely by Volkswagen.

