plug smart™
intelligent energy solutions

Project Profile
UNIVERSITY OF TOLEDO

"Our relationship with Plug Smart for the solar and wind electric generation systems on Scott Park campus will help students and researchers advance the technology that will power our future"

- Dr. Lloyd Jacobs,
UT President

Overview

Project Type : Generation

Scenario: Plug Smart developed a solar installation using panels from both First Solar and Xunlight, two companies whose thin-film technology was originally developed based on research at UT.

The Client:

- The University of Toledo (UT) is a large public university in NW Ohio, serving 23,000 students on three campuses: Health Science, Scott Park, and Main Campus.

The Problem:

- UT has a major engineering and research focus surrounding photovoltaics and desired to show their commitment publicly.
- Unless applied to rooftops, which is more expensive, a significant area of land is required to generate large amounts of electricity. UT's main campus is dense with buildings, recreational areas and trees.

The Plug Smart Solution:

- Plug Smart developed a solar installation for the Scott Park Campus of Energy and Innovation, which would allow engineering students to monitor its performance and learn from it for years to come.
- Constellation Energy partnered on the deal by financing the project, entering into a 20-year Power Purchase Agreement (PPA) with the University, who would purchase their energy from the company at a pre-determined rate.
- This was the first PPA by a public institution in the State of Ohio.

Technical Highlights

- 1.12 MW, 8 acre solar field, First Solar
- 10 kW rooftop solar array, Xunlight
- 80 kW wind turbine, Wind Energy Solutions
- Generated 26% of Scott Park's energy needs in 2012

Environmental Impact

- Reduces CO_2 emissions by over 1,000 tons
- Equivalent of removing 200 cars from the road

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