

# AEP OHIO Fact Sheet

## Solar Power

### Why does AEP Ohio want to add solar power to its generation portfolio?

AEP believes a diversified generation mix is the most efficient and economic way to provide power to its customers. The company already has coal, nuclear, wind and hydro generation resources. It simply makes sense that solar is part of the overall mix, and the timing is right.

Ohio Substitute Senate Bill 221 requires AEP Ohio to supply 0.010 percent of its load in 2010 with generation from solar resources, and 0.030 percent in 2011. The benchmark requirements ramp up to 0.5 percent by the end of 2024. AEP Ohio anticipates the need to add approximately 10 megawatts (MW) of incremental solar generation annually 2011 through 2024.

### What is AEP Ohio doing to meet these goals?

In 2009, AEP Ohio signed a 20-year agreement with Wyandot Solar LLC, a subsidiary of PSEG Solar Source LLC, to purchase all the solar energy output from its new 10.08-MW facility (top photo at right) near Upper Sandusky, Ohio. This agreement helps AEP Ohio comply with the solar benchmark requirements set forth by SB 221 through 2011.

The Wyandot Solar facility is located adjacent AEP Ohio's North Upper Sandusky Station in Wyandot County. The facility is located on approximately 80 acres in Salem Township and is comprised of 160,000 FS-2 series PV (photovoltaic) modules supplied by First Solar Inc., a Perrysburg, Ohio, solar module manufacturing company. The facility is expected to be in commercial operation by midsummer 2010. The facility will employ two to three full-time workers.

### Other Solar Applications

AEP Ohio also has shown the commercial viability of solar in Ohio by adding more than 500 rooftop panels on service centers in Athens and Newark. On average, the solar panels are expected to supply 7 to 10 percent of each building's annual power needs. AEP also is monitoring and evaluating the performance of a concentrated photovoltaic system (bottom photo at right, foreground) and a traditional flatpanel solar installation (bottom photo at right, background) at its Dolan Technology Center in Groveport, Ohio.

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Partial aerial view of PSEG's Wyandot Solar facility. The panels cover approximately 80 acres.



Solar power installations AEP is evaluating at its Dolan Technology Center.

