



EPA's
Green Power Partnership



Case Study:

City of Pendleton, Oregon

In 2008, the City of Pendleton, Oregon, worked with Honeywell Building Solutions and Advanced Energy Systems to install a 100 kilowatt photovoltaic (PV) system on the roof of its water treatment plant with no upfront capital costs to the city via a solar power purchase agreement (SPPA). The system, which is comprised of 576 modules, generates 15 percent of the plant's electricity needs. The project used a combination of federal and state incentives to reduce the cost, including the Oregon Business Energy Tax Credit and a \$3 per watt incentive offered by the Energy Trust of Oregon in return for the renewable energy certificates (RECs).



Photo courtesy of the City of Pendleton.

Pendleton pays Honeywell 4.68 cents per kilowatt hour for the generated power, which is slightly lower than what the city pays for power from its local utility. The costs will increase at three percent a year. At the end of the 20-year contract, the city has the option to enter into another contract with Honeywell, buy the PV system, or opt out and have Honeywell remove the system from the water treatment plant's roof.

Technical and Financial Details of Pendleton's PV System

Technical					
System Size	System Owner	Location	Year Installed	Panel Manufacturer	Estimated Output
100 kW	Honeywell Building Solutions	Pendleton, OR	2008	SolarWorld	107,540 kWh/year
Financials					
System Cost	Installer	Contract Term	Electricity Price	Rate Escalator	REC Ownership
\$778,000	Advance Energy Systems	20 years	\$0.0468 / kWh	3%/yr	Energy Trust of Oregon

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