



Wind Energy – A Booming New Pennsylvania Industry

In the next two years, the American wind industry plans to install equipment worth over \$170 million in rural Pennsylvania. More than two dozen wind turbines already installed in the state produce enough power to meet the electric needs of nearly 2,800 households. Pennsylvania's bountiful wind resources offer the potential for much more.

Why Pennsylvania?

The Pennsylvania wind industry is growing in part because Pennsylvania has bountiful wind resources, the technology is improving and the costs are coming down, making wind power among the least expensive new sources of electricity. Pennsylvania also has the most advanced customer choice program in the nation. The state's existing commercial wind facilities were built in direct response to consumer demand, and several new facilities are planned to meet subscriptions.

In addition to the turbines built to serve the green market, more than a dozen farms and residences save money by generating their own power from the wind, using an approach called "net metering." With net metering, when a customer's wind turbine produces more power than the customer is using at that time, the power flows out onto the grid, and the customer's meter spins backward. At the end of the year or month, the account is trued up, with the customer paying the utility for the balance.

Benefits of Wind in Pennsylvania

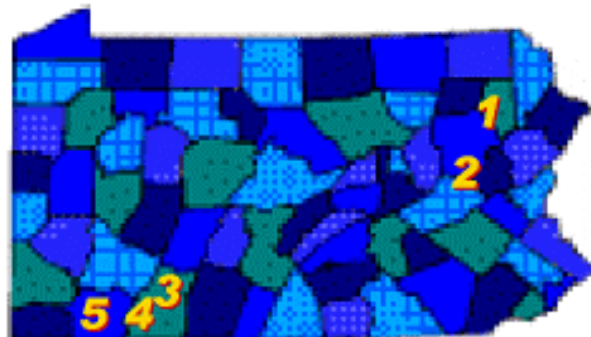
Pennsylvania wind farms are bringing a new source of jobs and economic prosperity to rural areas as well as reducing the state's dependence on polluting power sources.

A report recently released by PennFuture, [*Tax Policies for Energy Security, Job Creation and Environmental Quality*](#), concludes that Pennsylvania can generate 1,000 megawatts of new wind power and attract up to \$1 billion of private investment with a limited public commitment. This new wind power would provide enough electricity to power at least 250,000 households with non-polluting energy while increasing reliability of the electric system and helping control prices by increasing supply.

As 2% of Pennsylvania's electric consumption, 1,000 MW of wind energy would also:

- Create 750 short-term construction jobs and 450 long-term operations positions;
- Boost rural economic development by increasing local tax revenues by \$7 million and lease payments of \$2.6 million to landowners; and
- Cut global warming emissions by 2.7 million tons per year, avoiding the pollution equivalent of planting 235 million trees or not driving 4 billion miles.

Map of Pennsylvania wind farms



1) Scranton, 2) Hazleton,
3) Somerset, 4) Garrett, 5) Mill Run

Notable Pennsylvania Wind Projects

Hazleton – Two Energy Unlimited wind turbines at the Humboldt Industrial Park in Luzerne County began turning on December 31, 1999, marking the mid-Atlantic’s first commercial-scale wind project. As one of the 25 businesses signed up to purchase the green power, Philadelphia’s Sheraton Rittenhouse Square Hotel agreed to purchase 20,000 kWh per month of wind power to become the largest wind power user in the state.

Garrett – Pennsylvania’s first multi-megawatt wind farm, utilizing the first 1.3 MW Nordex wind turbines installed in the U.S., was built in response to consumer demand and began operating in May 2000. Located in corn fields reclaimed from a coal strip mine in Somerset County’s Summit Township, the Green Mountain Wind Farm is owned and operated by National Wind Power. The project’s output exclusively serves customers who have switched their electric supply to Green Mountain’s green power products.

Mill Run – The first Exelon-Community Energy Wind Farm, utilizing ten 1.5 MW Enron wind turbines, is expected to be operational by November 2000. The site extends for approximately 1.2 miles along Laurel Ridge in Fayette County, straddling Stewart and Springfield Townships. The project is jointly owned by Atlantic Renewable Energy Corporation and Zilkha Renewable Energy.

Somerset – Every day, ten of thousands of people will enjoy an impressive view of six 1.5 MW Enron turbines located along the Pennsylvania Turnpike in Somerset County. Atlantic Renewable Energy Corporation and Zilkha Renewable Energy expect the project to be online by the end of 2001.

Scranton – American National Wind Power expects to install its second Pennsylvania project in Lackawanna County by the summer of 2002.

Wind Turbines in Pennsylvania

	Owner/Operator	Location	Number of Turbines	Capacity (kW)
Installed	American National Wind Power	Garrett	8	10,400
	Energy Unlimited	Hazleton	2	130
	15-20 Private Owners	Various	15-20	70-90
Planned	American National Wind Power	Scranton	37	48,000
	Atlantic Renewable Energy Corp.	Mill Run	15	15,000
	Atlantic Renewable Energy Corp.	Somerset	6	9,000
	Community Energy	Hazleton	2	130
Proposed	American National Wind Power	Wayne County	30-40	52,000
	Atlantic Renewable Energy Corp.	Meyersdale	15-20	30,000
	Keystone Wind	Somerset	16-30	25,000
	Global Winds Harvest	Bald Mountain	14	18,200
	Energy Unlimited	Mountain Top	13	16,900
Total			190-220	208,000

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