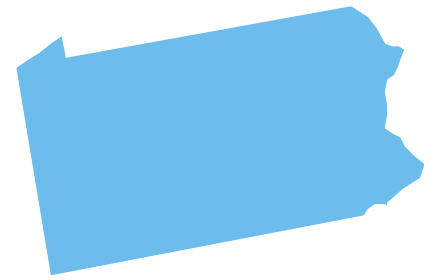


RENEWABLE POWER IN PENNSYLVANIA

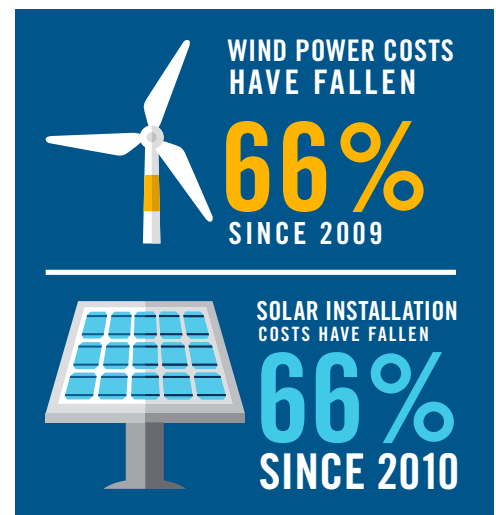


Renewable power is a growing part of the Pennsylvania economy. There are now more than 573 wind and solar companies in the state providing a wide array of services, including manufacturing components, and developing and installing renewable energy projects.

Declining costs make renewable power a cost-effective option for Pennsylvania


Innovations in the American wind and solar industries continue to drive down costs. As a result, a combination of wind energy, energy efficiency, and solar power played the three largest roles in creating the optimal compliance mix for the U.S. EPA's Clean Power Plan rules.


Although wind and solar are already cost competitive in certain regions, both industries expect costs to further decline in the years to come, as long-term extensions of the federal Production and Investment Tax Credits at the end of 2015 will allow for additional innovation and long-term planning.



Economic benefits of renewables in Pennsylvania

Renewable power projects attract private investment, create local jobs, and typically provide property tax payments for the surrounding communities. The wind industry has attracted more than \$2.7 billion in new investment to the state since the first wind project was developed in 2000. In 2015, \$32 million was invested on Pennsylvania solar installations, a 21 percent increase over the prior year. Both industries are also experiencing significant job growth. Wind turbine technician was the fastest growing job in the nation in 2015, and the U.S. solar industry has experienced 20 percent national job growth for each of the past three years. The solar industry now employs over 2,498 workers in the state.

3,498 
**RENEWABLE
JOBS**

\$3.9 BIL 
**IN TOTAL
INVESTMENT
IN CLEAN ENERGY**

\$1-5 MIL 
**ANNUAL
LANDOWNER
& TAX PAYMENTS**

Examples of recent low-cost renewable power purchases

- Wind power is often cost competitive with fossil fuel sources in the state, and typically provides price certainty with long term, fixed-rate contracts.
- In 2003, First Energy Solutions agreed to purchase wind power from the Myersdale Wind project developed by NextEra Energy Resources for \$39 per megawatt hour, one of the lowest cost power purchase agreements in the state.¹
- Several large Pennsylvania retailers have gone solar, including IKEA, Crayola, Staples, Walmart, and Kohl's.

Pennsylvania's renewable sector has a bright future

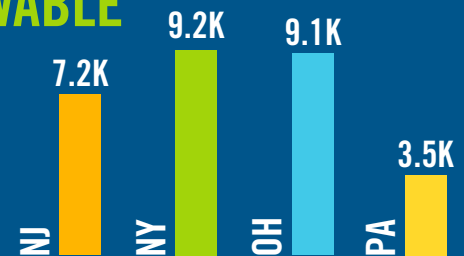
- Expanding wind power in the state could result in more than \$44 million in annual property tax revenue, and over \$18 million in annual land lease payments to rural landowners by 2030.²
- Many Pennsylvania companies have begun supplying the wind industry, such as the Hodge Foundry in Greenville. There are now 26 active sites manufacturing components for the wind industry in the state.

HOW DOES PENNSYLVANIA COMPARE TO NEIGHBORING STATES?

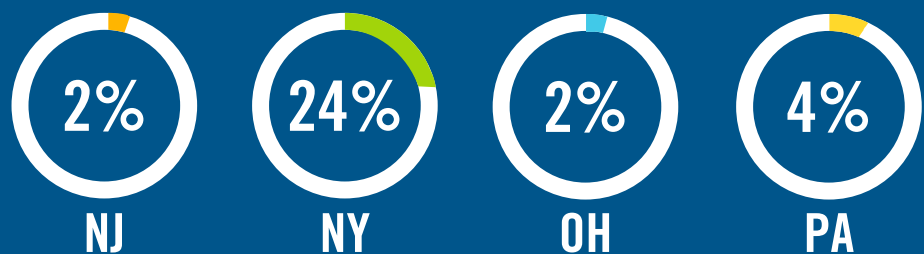
INVESTMENT IN RENEWABLE PROJECTS³



RENEWABLE JOBS⁴



POWER FROM RENEWABLE ENERGY⁵



1. Sources, page 1: (1) American Wind Energy Association (AWEA), Pennsylvania Wind Energy (Q1 2016); (2) Solar Energy Industry Association (SEIA), Solar Spotlight: Pennsylvania (June 2016); (3) US Department of Energy, Wind Technologies Market Report (August 2015); (4) US Energy Information Administration, Analysis of the Impacts of the Clean Power Plan, (May 2015); (5) The Solar Foundation (TSF), Fact Sheet, State Solar Jobs Census 2015.
2. Sources, page 2: (1) AWEA; (2) US Department of Energy, Wind Vision (2015); (3) AWEA, SEIA, note that state-level investment data for hydropower was not available; (4) AWEA, TSF, Clean Energy Trust; (5) EIA, Electric Power Monthly with Data for December 2015 (February 2016).



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