

Energize Ohio

Building Ohio's Energy Future

energizeohio.osu.edu

Shale Energy in Ohio

OSU Extension's Shale Education Program (<http://shalegas.osu.edu>) provides objective, research-based resources to the landowners and communities impacted by the increasing shale development activity in Ohio. Extension educators collaborate with Ohio State's Subsurface Energy Resource Center, the Department of Natural Resources, and other organizations to gain expertise, identify issues, develop research projects, and provide outreach education on shale development.

Project Essentials

- The Shale Education Program provides resources on shale development, oil and gas leasing, financial implications, wealth management, community issues, water testing, and pipeline construction.
- Extension educators speak for meetings and conferences and host a daylong Shale and You Workshop.
- In its first two years, the program reached over 14,000 landowners, local officials, community members, and professionals.



Energize Ohio Building Ohio's Energy Future



Shale Energy in Ohio

"We got offered a lease, but I wasn't comfortable with it. A paralegal told me to contact Extension, and I got in contact with Steve Schumacher. He set the matter straight. As an outside person who doesn't have a stake in this game, his word had a lot of influence. It made all the difference in the world."

—Fred Schwarz, who is now forming a landowners group in Licking County



Energize Ohio

Building Ohio's Energy Future

energizeohio.osu.edu

Solar Energy in Ohio

Wyandot County's leaders weren't sure a proposed solar power project would work. Even if it would, they needed help planning and preparing for the project. They turned to OSU Extension for assistance with fact-finding, feasibility studies, public education forums, and the project's coordination.

Project Essentials

- The 12 megawatt solar field—the largest of its kind in Ohio—is owned by PSEG Solar Source and produces 15,835 megawatt hours of electricity per year.
- First Solar, Inc., supplied the 159,200 solar panels used in construction; most were produced at their manufacturing facility in Perrysburg, Ohio.
- This 85-acre solar field generates 100% renewable, emission-free electricity that offsets an estimated 14,030 tons of greenhouse gas annually.
- When the sun is shining, the facility provides enough electricity to serve more than 9,000 homes.



Energize Ohio Building Ohio's Energy Future



Wind Energy in Ohio

In Van Wert and Paulding counties, Ohio's first utility-scale wind energy farms (Horizon Wind Energy's Timber Road II and Iberdrola Renewables' Blue Creek) were completed in 2011. OSU Extension worked with community leaders and landowners to assist with the educational and fact-finding processes that helped bring these projects to fruition.

Project Essentials

- These two wind energy farms currently consist of 207 turbines, producing up to 450 megawatts of electricity—enough to power 107,000 Ohio homes.
- During construction, \$21.3 million was spent on local contracts, 495 construction jobs were created, and 30 new permanent jobs were generated.
- The farms pay \$2.6 million annually to landowners, and generate \$3.6 million annually in local taxes.
- Ohio State has signed a letter of intent to purchase 50 megawatts of electricity from the Blue Creek farm, which will power 26% of its Columbus campus.



THE
OHIO
STATE
UNIVERSITY

EXTENSION