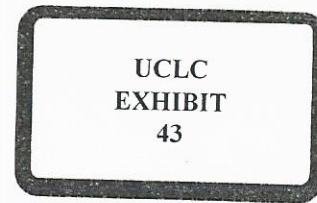




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ABOUT THE DOE WIND PROGRAM

The U.S. Department of Energy (DOE) Wind Program is committed to developing and deploying a portfolio of innovative technologies for clean, domestic power generation to support an ever-growing industry, targeted at producing **20% of our nation's electricity by 2030**. Since the report's initial publication in 2008, the DOE Wind Program, in close cooperation with the wind industry, began launching a new initiative to revisit the findings of that report, and to develop a **renewed vision for U.S. wind power research**, development, and deployment.

WHAT WE DO

The Program's activities are leading the nation's efforts to accelerate the deployment of wind power technologies through improved performance, lower costs, and reduced market barriers. The Program works with national laboratories, industry, universities, and other federal agencies to conduct research and development activities through competitively selected, directly funded, and cost-shared projects. Our efforts target both land-based and offshore wind power to fully support the clean energy economy.

WHY IT MATTERS

Greater use of the nation's abundant wind resources for electric power generation will help the nation reduce emissions of greenhouse gases and other air pollutants, diversify its energy supply, provide cost-competitive electricity to key regions across the country, and reduce water usage for power generation. In addition, wind energy deployment will help stimulate the revitalization of key sectors of the economy by investing in infrastructure and creating long-term, sustainable skilled jobs.

REDUCING THE COST OF RENEWABLE ENERGY

The Wind Program is committed to helping the nation secure cost-competitive sources of renewable energy through the development and deployment of innovative wind power technologies. By investing in improvements to wind plant design, technology development, and operation as well as developing tools to identify the highest quality wind resources, the Wind Program serves as a leader in making wind energy technologies more competitive with traditional sources of energy and a larger part of our nation's renewable energy portfolio.

SECURING CLEAN, DOMESTIC ENERGY

The Wind Program is contributing to the nation's role as a leader in renewable energy technology development by promoting domestic manufacturing of wind power technologies. Wind energy is a clean, domestic power source that

requires little to no water and creates no air pollution when compared to more traditional energy sources. The Program works to ensure that wind energy technologies are environmentally responsible by analyzing the environmental impacts of wind energy, observing species' interactions with wind turbines, and researching opportunities to mitigate or eliminate any impacts where they may exist.

ENABLING THE RENEWABLE ENERGY MARKET

By working with industry, federal and international partners, and national laboratories, the Wind Program seeks to understand and address market barriers such as environmental impacts, project siting and permitting processes, and wind's potential effects on our nation's air space and waterways. These efforts will help wind power continue on its trajectory to being a competitive, cost-effective part of our nation's renewable energy portfolio.

HARNESSING ENERGY WHERE OUR NATION NEEDS IT MOST

Wind energy presents a unique opportunity to harness energy in areas where our country's populations need it most. This includes offshore wind's potential to provide power to population centers near coastlines, and land-based wind's ability to deliver electricity to rural communities with few other local sources of power. By working to deploy wind power in new areas on land and at sea and ensuring the stable, secure integration of this power to our nation's electrical grid, the Wind Program contributes to the delivery of clean, renewable energy throughout the nation.

NATIONAL LABORATORIES

The Wind Program funds research and development activities at the following national laboratories:

- [Argonne National Laboratory](#)
- [Idaho National Laboratory](#)
- [Lawrence Berkeley National Laboratory](#)
- [Lawrence Livermore National Laboratory](#)
- [National Renewable Energy Laboratory](#)
- [Oak Ridge National Laboratory](#)
- [Pacific Northwest National Laboratory](#)
- [Sandia National Laboratories](#)
- [Savannah River National Laboratory](#)

WIND PROGRAM R&D NEWSLETTER

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FAST FACT

Wind energy accounts for 36% of all generating capacity at the end of 2013, higher than all other generating sources except natural gas.

NEWS

JANUARY 8, 2015

[Energy Department Announces \\$2.5 Million to Improve Wind Forecasting](#)

The Energy Department today announced \$2.5 million for a new project to research the atmospheric processes that generate wind in mountain-valley regions. This in-depth research, conducted by Vaisala of Louisville,

Colorado, will be used to improve the wind industry's weather models for short-term wind forecasts, especially for those issued less than 15 hours in advance.

JANUARY 8, 2015

[DOE Announces Webinars on Solar Thermochemical Reaction Systems, Wind Turbine Recycling and Repowering, and More](#)

DECEMBER 31, 2014

[DOE Announces Webinars on On-Bill Financing, Design Conditions for the Hurricane Metocean Environment, and More](#)

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Office of Energy Efficiency & Renewable Energy
Forrestal Building
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