



Strategic Partnerships, Inc.

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Details of the ARRA funding for 28 new wind energy projects are listed below. If you are interested in having SPI point you to specific opportunities, contact Reagan Weil at 512.531.3900.

Supporting Wind Turbine Research and Testing

- **Alpha Star Corporation** - Advanced Composite Wind Turbine Blade Design Based on Durability & Damage Tolerance (Long Beach, CA) - \$200,383
- **Analatom, Inc.** - Remote Structural Health Monitoring and Advanced Prognostics of Wind Turbines (Sunnyvale, CA) - \$200,000
- **Bayer Material Science, LLC** - Carbon Nanotube Reinforced Polyurethane Composites for Wind Turbine Blades (Pittsburgh, PA) - \$750,000
- **Board of Regents, University of Nebraska-Lincoln** - Online Nonintrusive Condition Monitoring and Fault Detection for Wind Turbines (Lincoln, NE) - \$380,398
- **DNV Global Energy Concepts, Inc.** - Supporting Wind Turbine Research and Testing - Gearbox Durability Study (Seattle, WA) - \$399,616
- **Dow Corning Corporation** - Lifetime Lubricating Fluid for Gearboxes to Increase Efficiency and Durability of Wind Turbine Drive Trains (Midland, MI) - \$745,189
- **General Electric** - Wind Turbine Manufacturing Process Monitoring (Niskayuna, NY) - \$697,769
- **Honeywell International, Inc.** - Condition Based Monitoring for Wind Farms (Golden Valley, MN) - \$626,086
- **Michigan Aerospace Corporation** - Turbine Reliability and Operability Optimization Through the Use of Direct Detection LIDAR (Ann Arbor, MI) - \$748,002
- **Native American Technologies Company** - Automated Welding, Forming, Coating for On-Site Fabricated, Self-Erecting Utility Scale Wind Towers (Lakewood, CO) - \$749,739
- **Northern Power Systems, Inc.** - Advanced Manufacturing and Supply Chain Automation (Barre, VT) - \$683,388
- **PPG Industries, Inc.** - Wind Blade Manufacturing Innovation (Shelby, NC) - \$741,754
- **QM Power, Inc.** - Advanced High Power Density Permanent Magnet Wind Generators (Greenwood, MO) - \$398,005
- **University of Massachusetts Lowell** - Effect of Manufacturing-Induced Defects on Reliability of Composite Wind Turbine Blades (Lowell, MA) - \$499,886

Transmission Analysis, Planning and Assessments

- **Areva Federal Services** - Best Practices and Advances in Strategies and Decision Support Systems for Integrating Wind Energy for Reliable Grid Operations (Bethesda, MD) - \$275,610
- **Western Electricity Coordinating Council** - Balancing Authority Cooperation Concepts to Reduce Variable Generation Integration Costs in the Western Interconnection (Salt Lake City, UT) - \$319,200*
- **Electric Power Research Institute** - Integrating Midwest Wind Energy into Southeast Electricity Markets (Knoxville, TN) - \$399,135
- **EnerNex Corporation** - Documentation, User Support, and Verification of Wind Turbine and Plant Models (Knoxville, TN) - \$749,868
- **Hawaiian Electric Company** - Hawaii Utility Integration Initiatives (H.U.I.) to Enable Wind (Honolulu, HI) - \$750,000
- **Illinois Institute of Technology** - WINS: Market Simulation Tool for Facilitating Wind Energy Integration (Chicago, IL) - \$749,877

- **Regents of New Mexico State University** - Investigating Short Circuit Models for Wind Turbine Generators (Las Cruces, NM) - \$272,816
- **Regents of the University of Michigan** - Techniques for Voltage Control and Transient Stability Assessment (Ann Arbor, MI) - \$413,534
- **Tennessee Technological University** - Multi-Level Energy Storage and Controls for Large-Scale Wind Energy Integration (Cookeville, TN) - \$265,677
- **The Regents of the University of Colorado** - Upstream Measurements of Wind Profiles with Doppler Lidar for Improved Wind Energy Integration (Boulder, CO) - \$233,082
- **University of Texas at Austin** - Techno-Economic Modeling of the Integration of 20% Wind and Large-scale energy storage in ERCOT by 2030 (Austin, TX) - \$510,688*
- **University of WI-Milwaukee** - Lithium-Ion Ultracapacitors integrated with Wind Turbines Power Conversion Systems to Extend Operating Life and Improve Output Power Quality (Milwaukee, WI) - \$422,266
- **V&R Energy Systems Research, Inc.** - Improving Reliability of Transmission Grid to Facilitate Integration of Wind Energy in Tri-State G&T and AECI (Los Angeles, CA) - \$195,002*
- **WINData, Inc.** - Use of Real-Time Off-Site Observations as a Methodology for Increasing Forecast Skill in Prediction of Large Wind Power Ramps One or More Hours Ahead of Their Impact on a Wind Plant (Great Falls, MT) - \$398,966

*(*Three awards are being made by DOE's Office of Electricity Delivery and Reliability using annual appropriated funds.)*

Source: U.S. Dept. of Energy