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# Massachusetts Governor Celebrates Completion of Milestone Wind Farm



The largest wind farm in Massachusetts, Iberdrola Renewables' Hoosac Wind Power Project (pictured above), is now up and running, and recently got assistance from Gov. Deval Patrick to help mark its completion.

The Hoosac project has already meant economic development to this rural community in New England, including 140 construction jobs and \$3.8 million spent in the region during construction. Hoosac's 19 turbines currently generate 28.5 megawatts (MW) of clean, renewable energy. Each GE turbine can produce up to 1.5 MW; the entire wind farm will power more than 10,000 homes annually. Hoosac is also a boon to local landowners with lease payments expected to top \$3 million over the project's lifetime.



Massachusetts Gov. Deval Patrick (holding hard hats) visited Iberdrola Renewables' new Hoosac Wind Power Project recently and helped dedicate what is now the largest wind farm in the state.

"Wind energy has so much potential, and the completion of this project will be a big step forward in reducing our reliance on volatile, foreign fossil fuels," said Gov. Patrick during his visit to the site. "We share a common vision with the project developers to make the Commonwealth a healthier and environmentally cleaner place for generations to come." The Hoosac Wind Power Project means clean energy and the growth of sustainable jobs and tax revenue for the community.

In addition to Hoosac, two other Iberdrola Renewables wind farms kicked off production late last year and are now operational:

- Our second wind farm in New Hampshire, the Groton Wind Farm (pictured right), is located in the town of Groton in Grafton County. During construction, Groton peaked at 277 workers on-site, 52 percent of whom were local. Local spending during this project totaled \$3.9 million. Annually, Groton will be paying \$528,000 to the town of Groton with a 2.5% annual increase (an amount approximately equal to the town's annual municipal budget), \$450,000 in state taxes and approximately \$275,000 to local landowners.

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**(Massachusetts...continued)**

- Located in the wind-rich Tehachapi area near the town of Rosamond in Kern County, California, the Manzana Wind Power Project (pictured left) will provide 189 MW of clean, renewable energy from its 126 turbines. This project will support the local economy with property tax payments estimated to be more than \$50 million and lease payments expected to be more than \$30 million over the life of the project. The property taxes will support schools, public health, fire, library and other necessary services in Kern County. During construction, the project created 216 construction jobs at its peak and resulted in \$10.3 million spent locally.

Earlier in 2012, Iberdrola Renewables completed a 46-MW project in Pennsylvania, a 100-MW project in Iowa, a 304-MW project in Ohio and a 30-MW solar project in Colorado. 🌱

## Museum Display Focuses on Wind Energy Education

Where will the next generation of renewable energy consumers, technicians and even landowners learn about wind power? For those who live near or visit Portland, Ore., home of Iberdrola Renewables' U.S. headquarters, a new exhibit sponsored by the company at the Oregon Museum of Science and Industry (OMSI) is a good starting point.



Last December, OMSI unveiled an interactive exhibit celebrating energy and the environment called Renewable Energy/Energia Renovable that is sure to be a hit with the more than 1 million visitors who enter the museum's turnstiles each year.

The permanent, bilingual exhibit educates kids eight years and older and their parents on three elements of renewable energy: wind, waves and solar. Iberdrola Renewables is a presenting sponsor of this exhibit and helped guide the museum on the wind power portion of the renewable energy displays.

"Parents will learn how renewable energy fits into their households and kids will learn how to become good energy stewards," said Chris Stockner, energy and the environment coordinator at OMSI. "The displays are all interactive and might inspire some kids to not only use renewable energy in the future but perhaps pursue a career in the field."



The exhibit is an opportunity for youngsters of all ages to actually experience the wind energy process firsthand. Visitors begin their journey with a hands-on display showing electricity generated by motion from wind.

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## 5 Questions with Pete Landoni, Wind Asset Manager



As wind asset manager at Iberdrola Renewables, Pete Landoni provides oversight on the operational and financial performance of his portfolio of wind farms. He ensures compliance with regulatory agencies, transmission authorities and binding agreements with customers, landowners and suppliers. If there is a question regarding Power Purchase Agreements or property tax or utility/phone bills, Pete is usually involved. *Landowner News* recently sat down with Landoni to find out more about his job and the current state of his wind facilities.

**Landowner News: Which projects do you manage?**

**Landoni:** I manage projects in North Dakota, South Dakota, Missouri, Minnesota, Illinois, Ohio and Massachusetts.

**LN: What do you think about Iberdrola Renewables' role in the market?**

**Landoni:** I believe that Iberdrola Renewables is a market leader in developing innovative solutions for a dynamic industry that includes evolving energy market rules, numerous turbine models, complex site conditions and an uncertain regulatory environment. Our success is based on our collective experience in this industry and a culture that embraces problem solving and new challenges.



### LN: How much of a challenge for you is integrating the output of our wind farms?

**Landoni:** Integration is always a concern; however, in the markets where I have assets the overall system operator has established programs to automatically dispatch our wind farms. We receive electronic signals from the system operator that instruct us to ramp our plants down to an instructed generation output level when the need for power is soft. When the demand picks back up, they send a signal that allows us to ramp our generation back up. The amount of wind on these systems is growing and by having real-time communications to the system operators, we work with them to better manage supply and demand of electricity.

### LN: What do you like about your job?

**Landoni:** The variety is enormous. Dealing with landowners, utilities, transmission owners and internal groups to ensure our wind farms are running efficiently and effectively is a challenge that never gets old. Being part of the solution to bring “no emission” energy to the market is also pretty cool.

### LN: What do you like to do when you are not monitoring wind farms?

**Landoni:** I plan on taking a trip to Ireland in June of this year with a group of friends to play golf. We’ve been doing U.S. golf trips with the same group for some time and this is the 20th anniversary of our first trip. 🍷

### (Museum Display...continued)

When a visitor turns the crank, a magnetic field moves around a coil of wire illuminating a lightbulb. Visitors then move on to “Windy Inspirations,” where they use a small air cannon to blow air at three model wind devices, including a modern, utility-scale turbine. Guests can also try their hands at controlling the pitch and yaw of a turbine to optimize the power output without overloading the system. A large model turbine is also available for users to position.

After learning about renewable energy from wind, waves and solar, visitors can test their newfound knowledge in “Power Up Portland,” a control room where they use renewable and nonrenewable resources to keep a city with changing demands up and running.

“Informing people about wind power is empowering them,” said Stockner. “Thanks to OMSI’s efforts and the commitment of Iberdrola Renewables, millions of people will learn more about wind energy, empowering them to make renewable energy a permanent part of their lives for generations to come.”

Iberdrola Renewables invites all of our landowner families to experience the OMSI exhibit. If you are ever in Portland let us know and we will be happy to provide you with tickets to the museum. 🍷

## PTC Extension Signals Renewed Optimism

The wind energy industry breathed a sigh of relief in January when Congress extended the Production Tax Credit (PTC) as part of the Jan. 1 legislation to avoid the fiscal cliff.

The extension, which covers all wind projects that start construction before the end of 2013, will benefit companies that generate electricity from wind, among other clean energy sources.

According to the American Wind Energy Association (AWEA), this extension will not only create new jobs, but it is expected to save up to 37,000 U.S. positions and revive or grow business at nearly 500 manufacturing facilities across the country.



Iberdrola Renewables believes this action by Congress and the president will continue the momentum that has meant more clean energy for consumers, more jobs for American workers and more benefits for landowners and local communities. We have been and will continue to talk to many parties to see if there are opportunities to take advantage of the newly extended tax credit window by starting a new project this year. 🍷

## Production, Installation Records Fall in 2012

It was a banner year for the U.S. wind energy industry in 2012, according to the latest figures released by the American Wind Energy Association (AWEA). The industry installed an all-time high of 13,124 megawatts (MW) of electric generating capacity during the year, surpassing the previous record of 10,000 MW installed in 2010.

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### (Production, Installation...continued)

The record for new annual installations was driven by 190 projects in 32 states, plus Puerto Rico. In last year's fourth quarter alone, 8,380 MW were installed, making it the strongest quarter in U.S. wind power history.

Wind energy for the first time became the number one source of new U.S. electric generating capacity, and this year's installations leveraged \$25 billion in private investment. In addition, the industry eclipsed the 60,000-MW threshold of cumulative wind capacity. The 60,007 MW available today from wind energy in the U.S. is enough to power the equivalent of almost 15 million homes, or the number in Colorado, Iowa, Maryland, Michigan, Nevada and Ohio combined. 🌱

## Questions? Have a story to tell?

Questions or comments relating to Landowner News? Have a story to tell? Would you rather receive an electronic copy to save paper? We'd like to hear from you!

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## Mustache Mania Musters Money for Men's Health

The razors went on hiatus last November for many Iberdrola Renewables employees who grew mustaches (or Mo's) in honor of Movember – a worthy cause to raise awareness and money for research on men's health issues, specifically prostate and other cancers that affect men.



As the organization describes itself, "participants start November 1st clean shaven. For the rest of the month, these selfless and generous men, known as Mo Bros, groom, trim and wax their way into the annals of fine moustachery. Supported by the women in their lives, Mo Sistas, Movember Mo Bros raise funds by seeking out sponsorship for their Mo-growing efforts."

Last November set a record for Iberdrola Renewables with 38 participants raising a total of \$2,865. Iberdrola Renewables pledged \$50 for each participant, bringing the total donation amount to \$4,765.

Thank you to all of the donors and participants in this worthy cause. You can see pictures of the stylish Mo Bros here: <http://us.movember.com/team/522157>. 🌱



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