

# ILLINOIS: **Rail Splitter**

## Location

Rail Splitter Wind Farm, which achieved commercial operation in September 2009, is located in Tazewell and Logan Counties, north of the town of Lincoln. The wind farm is near the towns of Delavan, Hopedale, and Emden on a glacial moraine known as Union Ridge. Tazewell and Logan Counties offer many advantages as a location for a modern wind power project, including a strong, proven wind resource, access to transmission, compatibility with existing land uses, and proximity to power markets.

## Energy Output

Rail Splitter Wind Farm has an installed capacity of 100.5 megawatts (MW) — enough to power approximately 35,000 average Illinois homes with clean energy each year.<sup>1</sup>

## Benefits to the Community

Rail Splitter Wind Farm yields significant economic benefits to the community in the form of payments to landowners, local spending, and annual community investment. In addition, the development, construction, and operation of the wind farm have generated a significant number of jobs.

The wind farm also helps provide energy security to the United States by diversifying the electricity generation portfolio, protecting against volatile natural gas spikes, and utilizing a renewable, domestic source of energy.

## Environmental Benefits

Rail Splitter Wind Farm helps prevent carbon pollution, a major contributor to climate change; sulfur dioxide and nitrogen oxides which cause smog, acid rain, and respiratory illness; and mercury pollution, a neurotoxin that is harmful to people and wildlife. The annual environmental benefits are equivalent to taking more than 45,000 cars off the road.<sup>2</sup>

## Power Purchasers

The renewable energy generated by Rail Splitter Wind Farm is sold to third parties.



RAIL SPLITTER  
WIND FARM®

**Rail Splitter  
Wind Farm**

**201 NW  
Main Street**

**Hopedale  
IL 61747**

**P: 309-449-3333  
F: 309-449-5515**

# Landowners

More than 80 supportive landowners participate under long-term lease and easement agreements that cover turbines, access roads, and transmission corridors. The income they receive from lease payments helps sustain their way of life and is often spent within the local economy.

# Technology

These modern wind turbine generators are robust, sophisticated, high-tech machines designed to capture the kinetic energy of the wind and convert it into electricity. Wind turbines consist of three main parts: the tower, the blade, and the nacelle. Most of the action takes place inside the nacelle, where the motion of the wind turning the blades is converted into electricity. The blades are attached to a shaft that runs into a gearbox. The gearbox steps up the speed of rotation, which then turns the generator producing AC electricity. Electricity must be produced at just the right frequency and voltage to be compatible with the utility grid.

Rail Splitter Wind Farm consists of 67 GE sle 1.5 MW turbines.

# About Us

EDP Renewables North America LLC ("EDPR NA") and its subsidiaries develop, construct, own, and operate wind farms and solar parks throughout North America. Headquartered in Houston, Texas, with 37 wind farms, two solar parks, and 10 regional and development offices across the United States, EDPR NA has developed more than 5,000 megawatts (MW) and operates more than 4,600 MW. With approximately 400 employees, EDPR NA's highly qualified team has a proven capacity to execute projects across the continent.

EDPR NA is owned by EDP Renováveis, S.A. ("EDP Renewables" or "EDPR"), a global leader in the renewable energy sector that develops, constructs, owns, and operates renewable generation facilities. With a sound development pipeline, first-class assets, and market-leading capacity, EDPR has grown extensively in recent years. The company's long-term growth is driven by favorable renewable energy market conditions. EDPR is committed to renewable energy generation which has become reliable and competitive due to technological advancements that have led to greater efficiencies. The company operates in the most attractive markets, continuously expanding to new areas of the world. EDPR is currently present in the United States, Spain, Belgium, Brazil, Canada, France, Italy, Mexico, Poland, Portugal, Romania, and the United Kingdom. EDPR is listed on the Euronext Lisbon Stock Exchange (NYSE Euronext: EDPR).

For more information, visit [www.edpr.com](http://www.edpr.com) or [www.edprnorthamerica.com](http://www.edprnorthamerica.com).



**308,133**  
MWh of clean energy  
generated annually<sup>3</sup>

Rail Splitter has supported  
hundreds of local jobs

**216,548**  
Metric tons of CO<sub>2</sub>  
displaced each year<sup>4</sup>

<sup>1</sup>Figure based on 2014 EIA Household Data monthly average consumption by state multiplied by 12 months to calculate yearly figure based upon monthly averages.

<sup>2</sup>Calculated using the greenhouse gas equivalence calculator published by EPA.

<sup>3</sup>Figure calculated using a 35% capacity factor.

<sup>4</sup>Calculated using the greenhouse gas equivalence calculator published by EPA.

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