

HOOSAC Wind Power Project



Project Overview

Located in Berkshire County in northwest Massachusetts, the Hoosac Wind Power Project's 19 turbines generate 28.5 megawatts (MW) of clean, renewable energy. The project, located in the towns of Florida and Monroe, just south of the Vermont border, reached commercial operation at the end of 2012. The project considerably boosts the economic coffers of the local communities. NSTAR, a Northeast Utilities company, purchases all the energy produced at this wind farm. The project supports the local economy by contributing substantial revenue to the community through payments to the towns and to landowners, and by the economic boost provided during construction. At the peak of the Hoosac's construction, the project employed more than 140 construction workers, and it generated \$3.9 million in local spending.

Project Details

Project Capacity: 28.5 MW

Number of wind Turbines: 19 GE 1.5 MW wind turbines on 65-meter towers

Project Location: Florida and Monroe, Massachusetts. The project encompasses about 75 acres of land leased from local private landowners and the towns of Florida and Monroe.

Project Status: Commercial operation in December, 2012

Developer and Owner

Avangrid Renewables, LLC is a subsidiary of AVANGRID, Inc. (NYSE: AGR) and part of the IBERDROLA Group. IBERDROLA, S.A., an energy pioneer with the largest renewable asset base of any company in the world, owns 81.5% of the outstanding shares of AVANGRID common stock. Avangrid Renewables, LLC is headquartered in Portland, Ore., and has more than \$10 billion of operating assets totaling more than 6,000 MW of owned and controlled wind and solar generation in 22 U.S. states. Avangrid Renewables recently changed its legal name from Iberdrola Renewables, LLC.

Customer

NSTAR, a Northeast Utilities company (NYSE: NU), transmits and delivers electricity and natural gas to 1.4 million customers in Eastern and Central Massachusetts, including more than one million electric customers in 81 communities and 300,000 gas customers in 51 communities. For more information, please visit our website: www.nstar.com. Friend us on Facebook, and follow us on Twitter: @nstar_news.



Technology



The turbines are on a 213 foot (65 m) tubular steel tower for a total height of 340 feet.

Tip height: (102 m) taller than the Statue of Liberty (93 m)

Swept area: (4,415 m²) size of 10 NBA basketball courts (440 m²)

Rotor span: (77 m) longer than a Boeing 747 (71 m)

Blades: (37 m) longer than a blue whale (30 m)

Power: ~2X the horsepower (2010 hp) of the world's most powerful car (Bugatti Veyron – 1200 hp)

Machine head volume: (120 m³) bigger than a school bus (100 m³)

Tower: (65 m) is as tall as 22 elephants stacked up (3 m)

Tower base ring diameter: (4.5 m) wide enough to drive a London double decker bus through

Households Served

Each turbine can produce up to one and one-half megawatts or 2,000 horsepower. The total project powers more than 10,000 homes annually.



Local Economic Benefits

Approximately \$261,000 in annual PILOT payments are made to the host towns (\$151,000 to Florida, \$110,000 to Monroe), escalating with inflation – approximately \$6.8 million over the life of the PILOT agreement. In addition, the towns host turbines on town-owned land, which will generate approximately \$3 million in revenue over the life of the project. The project has created 3-5 permanent jobs, 140 temporary construction jobs at peak, and purchases many products and services locally. The project spent \$3.9 million locally during construction.



Energy and Environmental Benefits

The Hoosac Wind Power Project offsets approximately 100 million pounds of carbon dioxide per year relative to conventional electricity generation. That's equivalent to the estimated annual emissions produced by 9,400 cars or consuming more than 112,000 barrels of oil.

MA companies (partial list):

A-1 Trucking (North Adams)
Adams Stone (North Adams)
Always Growing Landscaping (Washington)
BOND (Boston)
Environmental Resources Management (Boston)
FGG Consulting (Farmington)
Lille Trucking (North Adams)
Mass Electric Construction Company (Boston)
N Della Inc. (Adams)
Pantermehl Environmental Services (Ashfield)
Stantec (Northampton and Westfield)
State Electric Corporation (Woburn)
Sum Co. (Salem)
United Site Services (Springfield)
Walden Trucking (North Adams)
Waterman (North Adams)
Whitney Trucking
(Northfield)

