

NEW HARVEST

Wind Farm



Project Overview

The New Harvest Wind Farm is Avangrid Renewables' fifth wind farm in Iowa, and part of a fleet of nearly 60 renewable energy facilities in 19 states. Located on farmland in Crawford County, immediately north and west of the town of Schleswig, the wind farm reached commercial operation in 2012. U.S. Highway 59 and Crawford County Road E-16 run through the project site.

Iowa is a national leader in the wind energy industry. In 2014, according to the American Wind Energy Association (AWEA), Iowa generated more than 28 percent of its electricity from wind power - first in the nation. Iowa possesses a very strong wind resource, the third most installed wind capacity of any state, and is a leader in wind manufacturing, which has created investment and opportunity throughout the wind energy supply chain for Iowa manufacturers.

Project Details

Project Capacity: 100 Megawatts (MW)

Number of Wind Turbines: 50

Type of Wind Turbine:

Gamesa G87 2.0 MW



Technology

Turbine Height: 476 feet (145 meters) as measured from the bottom of the tower to the tip of the highest blade

Turbine Weight: 82 tons (164,000 lbs.)

Tower Facts: Five section, tubular steel

Tower Height: 328 feet (100 meters)

Tower Weight: Approximately 326 tons (652,500 lbs.)

Rotor Diameter: 295 feet (90 meters)

Rotor Weight: 49.6 tons (99,200 lbs.)

Revolutions per Minute: 9 to 19

Foundations: Each individual wind turbine foundation consists of an octagonal spread footing of approximately 65 feet and approximately 12 to 13 feet deep

Balance of Plant Structure

Turbine Access: Approximately 17 miles of gravel-surfaced roads.

Economic Benefits

Taxes paid by over the plant's lifetime:

Approximately \$30 million

Estimated local landowner payments to be paid:

Approximately \$500,000 annually

Developer, Owner and Operator

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.

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