

Passadumkeag Windpark

Location

Penobscott County,
Maine

Capacity

42 MW

Fuel Resource

Wind

Ownership

Southern Power



Southern Power announced the acquisition of the company's first project in Maine – the 42-megawatt (MW) Passadumkeag Wind Park in Penobscot County – in June 2016.

Quantum Utility Generation developed the project, and EDF Renewable Services will serve as the balance-of-plant operations and maintenance contractor. Construction activities began in 2015, and the plant became operational in the second quarter of 2016.

The majority of the electricity and associated renewable energy credits (RECs) generated by the facility are sold under a 15-year power purchase agreement to Eversource Energy. Southern Power will retain a small percentage of the electricity and RECs generated, which it may keep or sell.

Technology

The project consists of 13, V112-3.3 MW wind turbines manufactured by Vestas-American Wind Technology Inc. and is expected to be capable of generating enough electricity to help meet the energy needs of approximately 14,000 average U.S. homes.

Each turbine is mounted on top of an 84-meter-tall tower and will have a 112-meter, three-blade rotor connected to a generator. The AC power from the generator will be modulated at 60 hz by a converter. Multiple wind turbines will be electrically connected in parallel to the main power transformer where the energy will be converted from 34.5kV to 115kV for interconnection.

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