

GROTON Wind Power Project

Project Location: Town of Groton,
Grafton County, New Hampshire

Project Status: on-line December 2012

Project Capacity: 48 Megawatts (MW)

Number of Wind Turbines: 24 Gamesa G87,
2.0 MW wind turbines, made in Pennsylvania



Households Served: The Groton Wind Farm produces, on average, enough electricity to power nearly 20,000 average New Hampshire homes. At peak production, the wind farm produces enough electricity for nearly 58,000 New Hampshire homes.

Technology: The turbines sit atop 256 foot (78 meter) towers. Each blade is 139 feet long, for a total turbine height from foundation to blade tip of approximately 398 feet, depending on foundation size. Each nacelle (large box-shape that houses mechanical equipment) weighs almost 85 tons.

Local Economic Benefits: Groton Wind spent significant amounts of money in New Hampshire – over \$20 million – through contracts with New Hampshire companies for engineering, geotechnical services, equipment and supplies, surveying, environmental studies, mapping, and permitting. During construction, the project employed 115 New Hampshire workers, for work on electrical lines and poles, building construction, logging, concrete, hauling, and civil construction. The project created 5 permanent jobs, and has local contracts for supplies and maintenance. Groton Wind provides significant payments to local landowners, and payments equal to nearly 100% of the annual municipal budget of the Town of Groton, in addition to annual tax payments to the State of New Hampshire.