



Fire Island Wind Power Concept

Approximately 3 miles west of the Anchorage Bowl, Fire Island has over 4,000 acres of developable land. As part of a wind energy assessment program and in cooperation with the major landowner, Cook Inlet Region, Inc., Chugach Electric Association installed meteorological stations on the Island and discovered a land and wind resource capable of supporting up to 120 MW of wind turbines.

This picture of Fire Island includes visual simulation of 1.8 MW wind turbines on the southern half of the Island. There are several manufacturers of large wind turbines and the units shown are a representation of the size turbines Chugach would need. The site plan recommended by a wind power meteorologist benefits from the prevailing easterly winds & the rows of turbines run approximately north to south. Chugach is in the investigative stage and no decision has been made whether to develop a wind power project. However, Chugach and their partners, Anchorage Municipal Utilities and Golden Valley Electric Association, are soliciting informal comments on receptivity to the project concept.

Wind Turbine Concept Information:

- Electric infrastructure additions require 10 miles of transmission, 8 miles of distribution and a substation
- An additional 2.5 miles of line connect 33 individual turbines to the distribution system
- Wind turbine towers – 262 feet tall
- Wind turbine blades – 148 feet long
- Wind turbine blade rotation speed – 20 RPM
- Wind turbine weight – 260 tons

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