

AVEC Wind Program Recap (as of February 2012)

AVEC expanded its fleet of wind turbines to 34 with the installation of 600 kW of additional capacity in 2011 for a total of 3,394 kW. The new additions include 200 kW at Shaktoolik and 400 kW at Emmonak. These projects are currently in the testing and commissioning stage and will be fully functional after new controls are installed in 2012. AVEC owned 1,364 kW of wind generation at the end of 2008. The majority of AVEC's wind turbines are Northwind 100s.

AVEC has installed wind generation capacity in 12 communities with interties to five communities:

- Chevak – 400 kW
- Emmonak – 400 kW (intertie to Alakanuk)
- Gambell – 300 kW
- Hooper Bay – 300 kW
- Kasigluk – 300 kW (interties to Nunapitchuk and Akula Heights)
- Mekoryuk – 200 kW
- Quinhagak – 300 kW
- Savoonga – 200 kW
- Selawik – 264 kW
- Shaktoolik – 200 kW
- Toksook Bay – 400 kW (interties to Nightmute and Tununak)
- and Wales – 130 kW.

As a major component of the planning phase of these projects, AVEC has operated or installed meteorological towers erected in the communities of St. Mary's, Pitka's Point, Marshall, and Mountain Village to assess the quality of the wind resource and determine if each location will economically support wind power generation. A resource assessment project and the installation of a MET tower in Teller have begun with siting and airspace issues being resolved. Additional resource assessment projects are planned to begin in other AVEC communities in 2012, including Stebbins, Scammon Bay, Marshall, New Stuyahok and Eek.

In 2008 AVEC purchased 4,882,000 gallons of fuel and hopes to replace 25% of this amount by 2018 through use of efficiency improvements and renewable energy.