

Wind-Diesel Project

Nikolski, Alaska



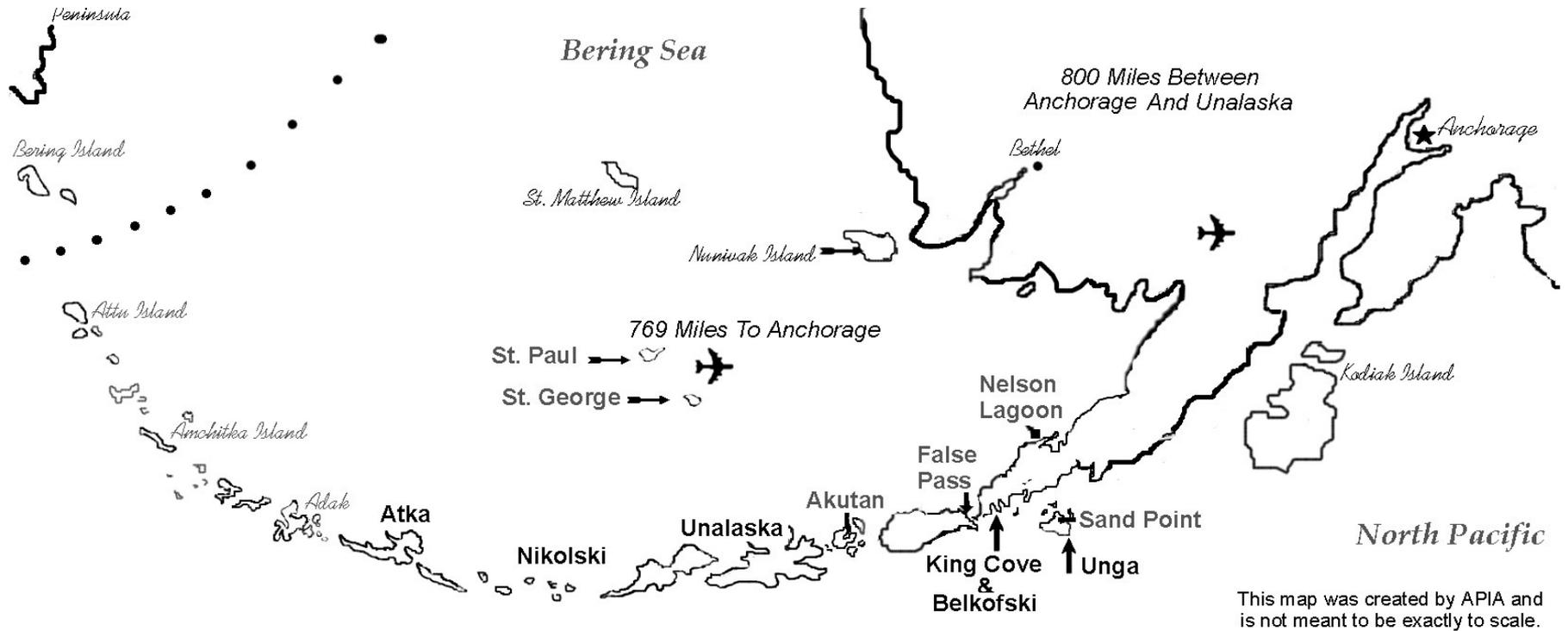
International Wind-Diesel Conference

April 25, 2008

Connie Fredenberg

Umnak Power

Nikolski, AK 99638



LOGISTICS

- Anchorage to Nikolski is 916 air miles for \$1,316 rt.
- Weather Rules.

Siting Considerations

- Protection from the Wind
- Land Ownership
- USFWS Approval
- SHPO Approval
- DOD Approval
- FAA Approval



Nikolski Wind Resource Report

Nikolski has superb potential for wind power development with Class 7 wind power density, moderate wind shear, bi-directional winds and low turbulence.

Average wind speed 9.01 m/s

Maximum wind gust 40.9 m/s

Turbulence Intensity 0.108





Paul Melovidov and Art Torres



Fepuali Valelei, Robert Kochuten, Rodney Harris

Vestas Operations and Maintenance Training

Portland, Oregon September 5-9, 2006

Pre-Pay Meter System Types

- “PowerStat”
*Atka, Akutan,
Nelson Lagoon*



- “AMPY”
St. George, Nikolski





The Nikolski IRA will use a \$30,000 prize from AFN's Alaska Marketplace Competition to install a geodesic dome greenhouse near the turbine this summer.