



Expected Alaska Wind-Diesel Projects

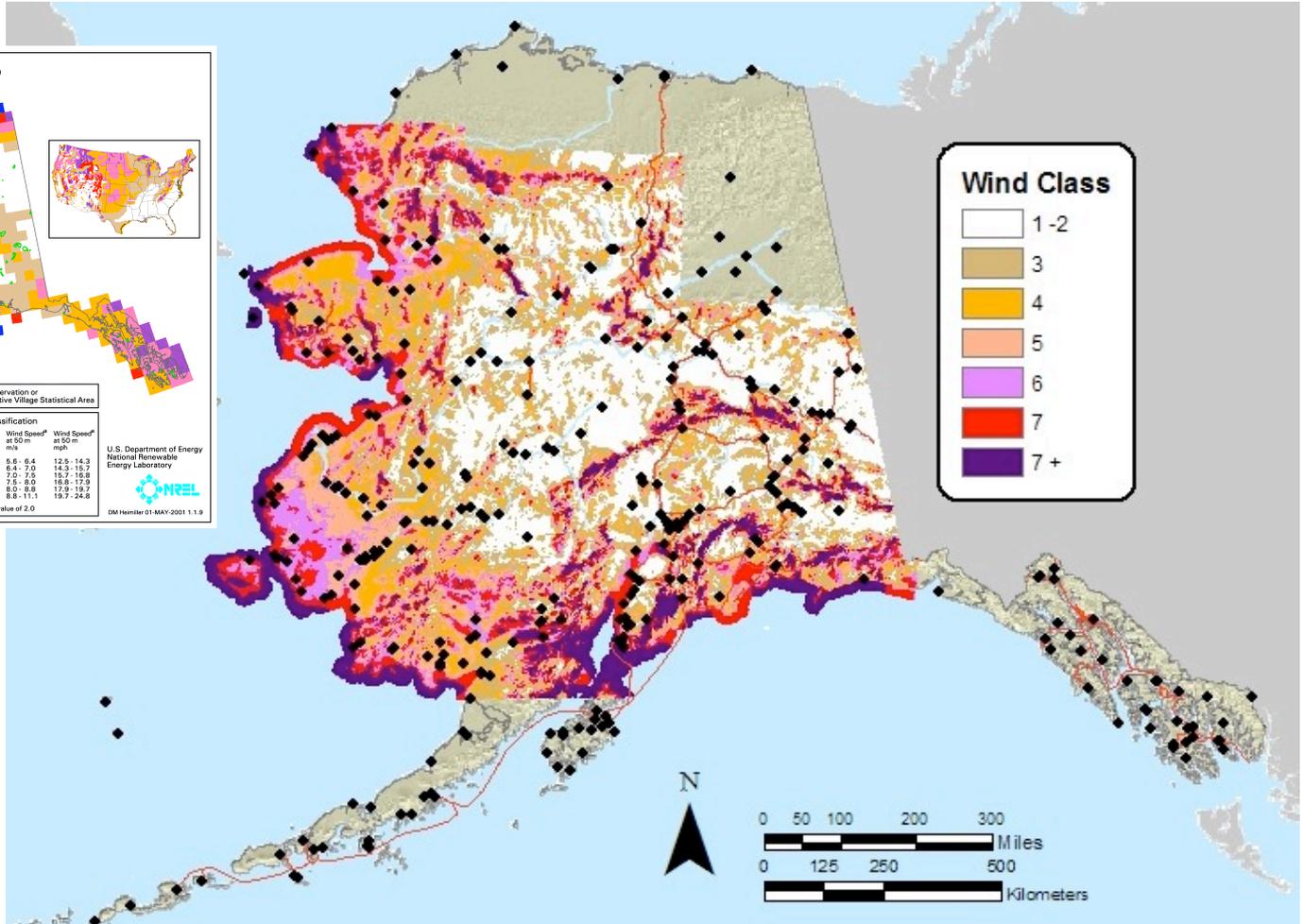
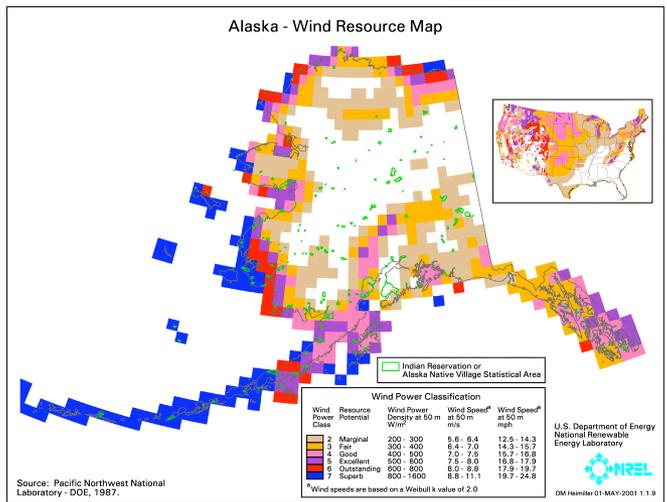
2008 International Wind-Diesel Workshop
April 25, 2008



Renewable Energy Alaska Project (REAP)

A coalition of small and large electric utilities, environmental groups, consumer groups, businesses, Alaska Native organizations, cities and state and federal agencies with the shared goal of “increasing the production of renewable energy in Alaska.”

Alaska Wind Map





AEA RFP - Construction

- Alaska Environmental Power
 - Wind turbines near Delta - Delta Junction (13)
- Aleutian Pribilof Island Community Development Association
 - High penetration WD hybrid - Saint George (14)
- BQ Energy, LLC
 - Tesoro Refinery wind generation - Kenai (15)
- City of Bethel
 - Wind turbine purchase - Bethel (16)



AEA RFP - Construction Cont.

- Kodiak Electric Association
 - Wind at Pillar Mountain - Kodiak (17)
- Kotzebue Electric Association
 - Vanadium Battery Red-Ox Flow - Kotzebue (18)
- Lake & Peninsula Borough
 - Wind at Kokhanok - Kokhonak(19)



AEA RFP - Preconstruction

- Alaska Wind Power, LLC
 - Delta wind farm - Delta Junction (33)
- BQ Energy, LLC
 - Tesoro Refinery wind generation - Nikiski (34)
- Bristol Bay Area Health Corporation
 - Wind generator - Dillingham (35)
- City of Nunam Iqua
 - Wind power study - Nunum Iqua (36)

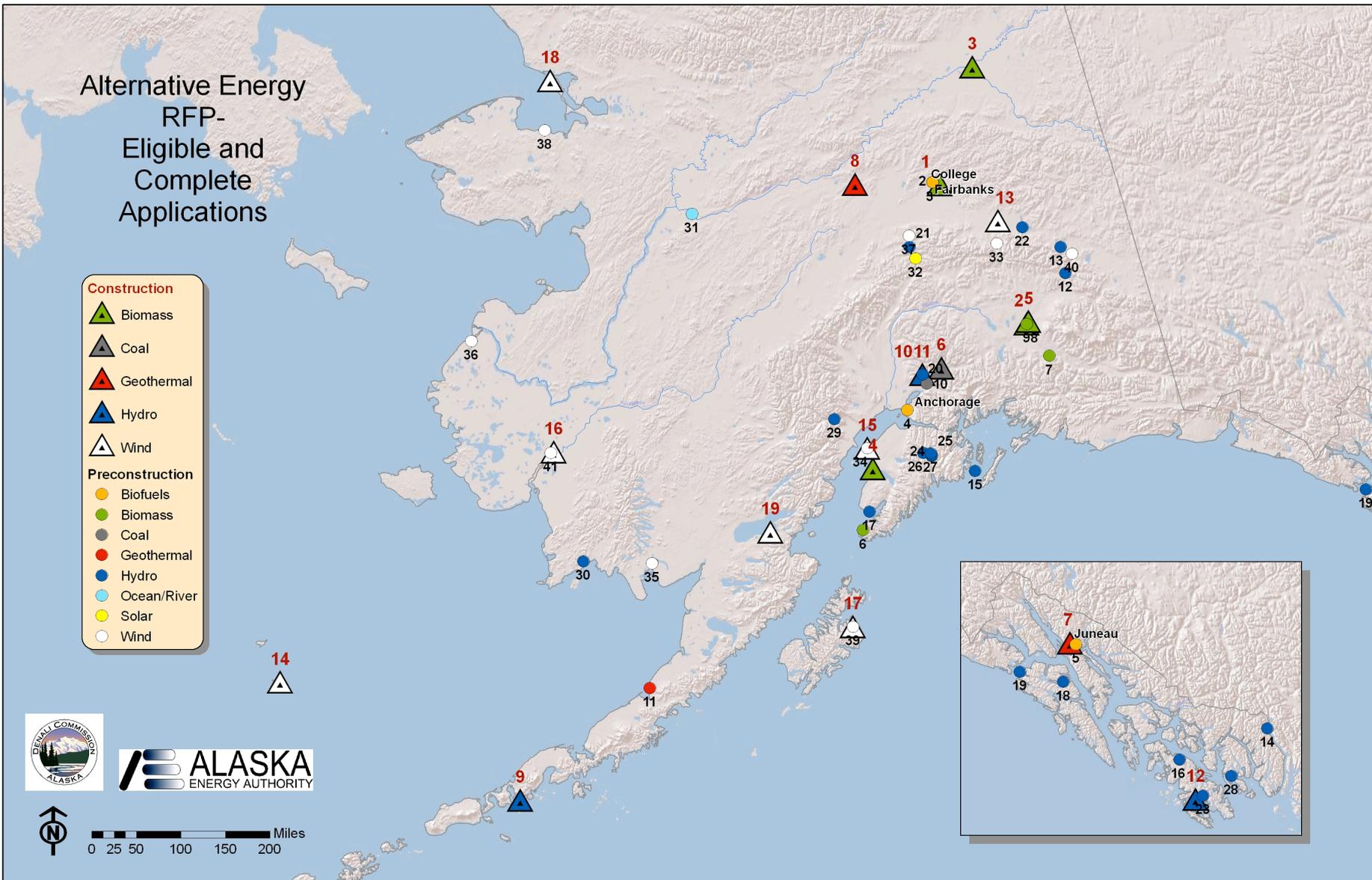


AEA RFP - Preconstruction Cont.

- Golden Valley Electric Association
 - Wind interconnection criteria - Eva Creek (37)
- Ipnatachiaq Electric Company
 - Wind integration to current diesel system - Deering (38)
- Kodiak Electric Association
 - Wind at Pillar Mountain phase 2 - Kodiak (39)
- Village Wind Power, LLC
 - Tok Wind Farm - Tok (40)
 - Bethel Wind Farm - Bethel (41)

Alternative Energy RFP- Eligible and Complete Applications

- Construction**
- Biomass
 - Coal
 - Geothermal
 - Hydro
 - Wind
- Preconstruction**
- Biofuels
 - Biomass
 - Coal
 - Geothermal
 - Hydro
 - Ocean/River
 - Solar
 - Wind



0 25 50 100 150 200 Miles



Alaska Village Electric Cooperative

- Hooper Bay

- 300kw installed capacity, construction to begin summer 2008

- Chevak

- 400kw installed capacity, construction to begin fall 2008

- Savoonga

- 200kw installed capacity, construction to begin summer 2008

- Gambell

- In foundation design stage, construction to possibly begin fall 2008

Wind-diesel development beyond 2008

- Anemometer study complete

- Quinhagak
- New Stuyahok

- Anemometers installed

- Emmonak
- St. Mary's
- Shaktoolik



TDX Power

■ TinCity

- US Air Force installation
- 225kw installed capacity
- Construction - July 2008

■ Sand Point

- 1MW installed capacity
- Construction - possibly 2009
 - Working through permit process



Chaninik Wind

- Community based / sub regional projects with cooperative management & support center in 1 of the 4 communities (training, spare parts, etc.)
 - Kongiganak, Kwigillingok, Kipnuk, & Tuntutuliak
 - 200kw - 400kw installed capacity in each village
 - Construction likely winter 2008 thru summer 2009



Kodiak Electric Association



- Pillar Mountain Hydro-Wind-Diesel Project
 - Phase 1 Development
 - 3MW installed capacity
 - Construction beginning 2009

North Slope Borough

- Feasibility stage, anemometers going up this summer

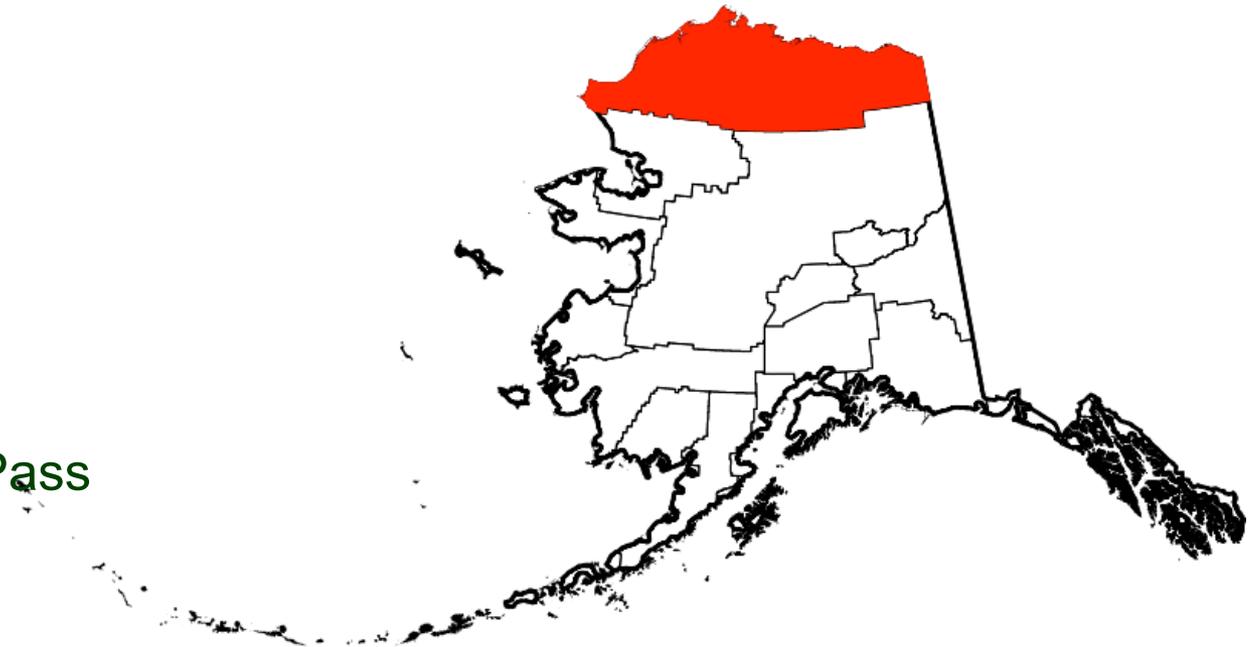
- Point Hope

- Wainwright

- Atkasuk

- Anaktuvuk Pass

- Kaktovik



NANA Region

- Feasibility stage, anemometers going up this summer
- All villages will be approximately 200kw installed capacity

- Deering
- Buckland
- Noorvik
- Kiana





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Thanks!!!