Alaska Village Electric Cooperative, Inc. / Bethel Native Corporation
Renewable Energy Joint Venture
Bethel Wind Energy Construction Project

Tribal Energy Conference
Denver, Colorado
November 2017

Forest Button
Manager, Project Development & Key Accounts
Alaska Village Electric Cooperative
Member owned, not-for-profit
Energizing Rural Alaska since 1968

- 58 Member Communities
- 11,500 Services
- Population Served: 30,194
- 94% Alaska Native
- Smallest: Shageluk 71  Largest: Bethel 6,205
- 8.2 million gallons of diesel
- 185 FT / PT Employees
- 49 Power Plants
- 34 Wind turbines serving 15 communities
- 2 Solar arrays serving 2 communities
Who is AVEC?
Who is BNC?

- ANCSA village corporation
- Serves 1,800 shareholders
- Mostly Yup’ik Eskimo
What is the Joint Venture?

- Partnership between AVEC and BNC - ABRE
  - To benefit the communities of Bethel and Oscarville
Project Overview

- Installation of one Emergya Wind Technologies (EWT) 900 kW direct drive wind turbine.
  - 52 meter diameter rotor
  - 50 meter high tower
- Upgrade power plant to accept wind energy
  - Automated governors - actuators
  - Voltage Regulators
Project Objectives

- Generate 2,604 MWh / Year
- Offset 200,000 gallons fuel consumption per year
- Save approx. $700,000 per year on fuel
- Eliminate 2,238 tons of CO2 / year
- Simple pay back...8.5 years
Progress:

- Turbine – Ready for Shipment Certificate Received
- Road, pad, and pile foundation winter 2017/2018
- Turbine ship to Alaska May 2018
- Concrete foundation June 2018
- Next steps…
Thank you!

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Questions?