Alaska Village Electric Cooperative, Inc./
Pitka’s Point Native Corporation
Renewable Energy Joint Venture
Pitka’s Point/Saint Mary’s Wind Energy
Construction Project

Tribal Energy Conference
Denver, Colorado
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Project Support/Office Administrator

AVEC
ALASKA VILLAGE ELECTRIC COOPERATIVE
Who is AVEC?

- 56 Member Communities
- 10,879 Member Services
- Population Served: 30,194
- 94% Alaska Native
- Smallest: Shageluk 71
- Largest: Bethel 6,205
- Anchorage Population: 298,908
- 81 Employees
- 48 Power Plants
- 34 Turbines serve 15 communities (4 by intertie)
- 112,712,935 kwh Sold
Who is AVEC?
Who is PPNC?

- ANCSA village corporation
- Serves 426 shareholders
What is the Joint Venture?

- Partnership between AVEC and PPNC
  - To benefit the communities of Pitka’s Point, Saint Mary’s, and Mountain Village
Project Overview

- Installation of one Emergya Wind Technologies (EWT) 900 kW direct drive wind turbine.
  - 52 meter diameter rotor
  - 50 meter high tower
- Upgrade electrical distribution line to three-phase between St. Mary’s and Pitka’s Point
- Upgrades at the Saint Mary’s power plant to effectively utilize wind
- Wind-to-heat component
Saint Mary’s and Pitka’s Point
Mountain Village
Project Location
Project Participants

- John Lamont
  - President of PPNC
- Meera Kohler
  - President/CEO of AVEC
- Forest Button
  - Project Development Manager of AVEC
- Native Village of Pitka’s Point
- Algaaciq Tribal Council
- Yupiit of Andreafski
- Asa’carsarmiut Tribal Council
- Azachorok, Inc.
- Nerklikmute Native Corporation
- Saint Mary’s Native Corporation
- City of Saint Mary’s
- City of Mountain Village
Project Objectives

- Replace approximately 202,000 gallons fuel/year for generation
- Replace approximately 4,220 gallons fuel/year for heating
- Generate around 2,525 MWh/year
- Eliminate roughly 2,100 Metric tons of CO2/year
- Strive to stabilize future energy costs
- Reduce risk of environmental damage
Background Information

- **Renewable Sources**
  - Wind Resource Analysis
  - Solar
  - In-stream hydroelectric
  - Hydropower development
  - Biomass energy (trees)

- **Turbines Analyzed**
  - 4 Northern Power 100 ARCTIC turbines (400kw installed)
  - 1 EWT DW52-900 (900kw installed)

- **Funding $5.616M**
  - AEA $4.3M
  - Match $537K
  - DOE $779K
Progress to Date

- Grant Award - October 2016
- Awarding Construction Contract
- In process of ordering EWT Turbine
Thank you!

Questions?

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