Alaska Village Electric Cooperative, Inc./Stebbins Native Corporation Renewable Energy Joint Venture

(ASRE)

Stebbins / St. Michael Renewable Energy Project
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: Oscarville 64 Largest: Bethel 6,469
• 9 million gallons of diesel / $20 million ($2.24)
• 90 FT / 95 PT Employees
• 49 Power Plants
• 32 Wind turbines serving 20 communities
• 2 Solar arrays serving 2 communities
• Two tug and barge sets
AVEC Wind Program 2019

- 32 Wind Turbines (4,800 kW)
- 11 Wind Farms
- Serving 20 Communities
- 7.22 million kWh
- Displaced 373,000 gallons
- Saving $1.13 million

- Since 2006 3.9 million gallons – 13.1 Million
• Partnership between AVEC and SNC
  • To benefit the communities of Stebbins and Saint Michaels

**Project Partners:**
• City of Stebbins
• Native Village of Stebbins
• City of St. Michael
• Native Village of Saint Michael
• Stebbins Native Corporation
• Stebbins Community Association
• St. Michael Native Corporation.
• Denali Commission
• DOE Office of Indian Energy
St. Michael, AK

Population 410

Gas  $

Diesel  $

Electric Rate:
0-500kWh  .2426
501-700kWh  .5249
Stebbins, Alaska

Population 565

Gas $4.85
Diesel $5.37

Electric Rate:
0-500kWh .2426
501-700kWh .5249
Install EWT 900kW Turbine

- Offset 104,700 of diesel
- Savings in first year $365,403
- Life time savings $11.4 million
- Project life 25 years
- NPV benefit $6.694 million
- Provide wind to heat
## Schedule

- **Procure Turbine**: 1Q2020
- **Mob to site**: 2Q2021 / 3Q2021
- **Site improvements**: 2Q2021 / 3Q2021
- **Turbine Foundation**: 4Q2021 / 1Q2022
- **Turbine Delivery / Installation**: 2Q2022 / 3Q2022
- **Start up[ / Commissioning**: 3Q2022 / 4Q2022
With collaboration, all things are possible!

Forest Button
Alaska Village Electric Cooperative