

DOE OFFICE OF INDIAN ENERGY

Wind-Diesel Workshop

Active IE Alaska Projects – 11/9/2018

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U.S. DEPARTMENT OF
ENERGY

Office of
Indian Energy

Aleut

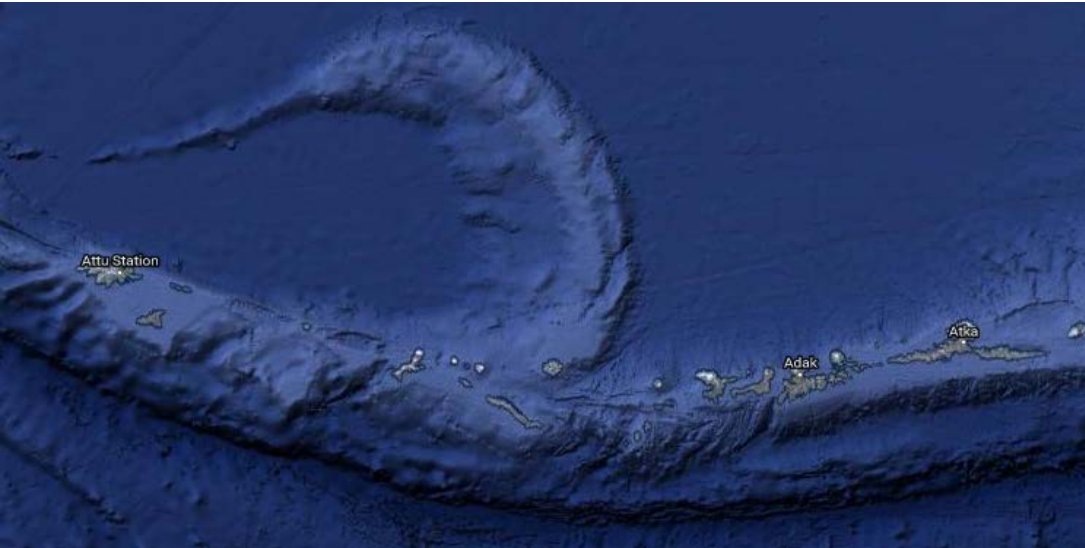
Project Amounts

DOE: \$500,000

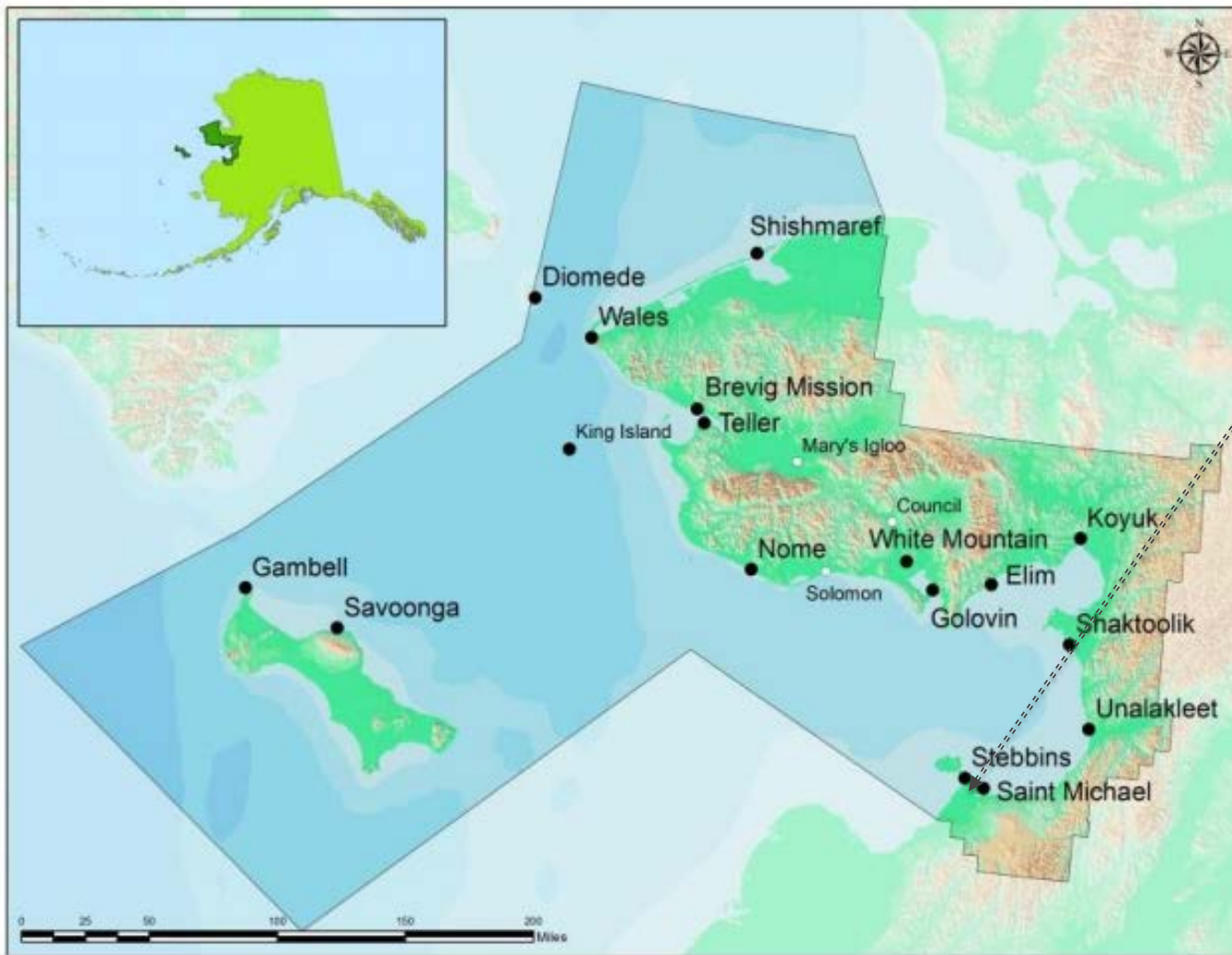
Awardee: \$1,233,743

Total: \$1,733,743

Deep Energy Makeover for the POSS Camp at St. Paul Island Alaska (1660)–Tanadgusix Corporation’s (TDX’s) project will reduce the energy consumption on the island of St. Paul, Alaska, by approximately 54% through deep energy retrofits, and will increase the contribution of wind power from 35% to 65% by installing an additional 900-kilowatt (kW) wind turbine.



Bering Strait



Stebbins and St. Michael Renewable Energy Construction Project (Pending)
EWT DW52-900 kW Turbine.

AVEC and Stebbins Native Corporation, through a joint venture, will install a 900-kilowatt (kW) turbine to provide wind energy to two remote communities in rural Alaska. This project will serve 328 buildings in Stebbins and St. Michael, AK, and reduce diesel fuel use by approximately 167,500 gallons each year, resulting in savings of approximately \$10,117,000 over 20 years.

Pitka's Point/Saint Mary's Wind Energy Construction Project

EWT 900 wind turbine - 2,525 MWh/year (net), evenly split between Saint Mary's/Pitka's Point and Mountain Village, (with the planned inertia). St. Mary's and Pitka's Point will be upgraded to three phase and the St. Mary's power plant will be upgraded to integrate wind power.

Project Amounts

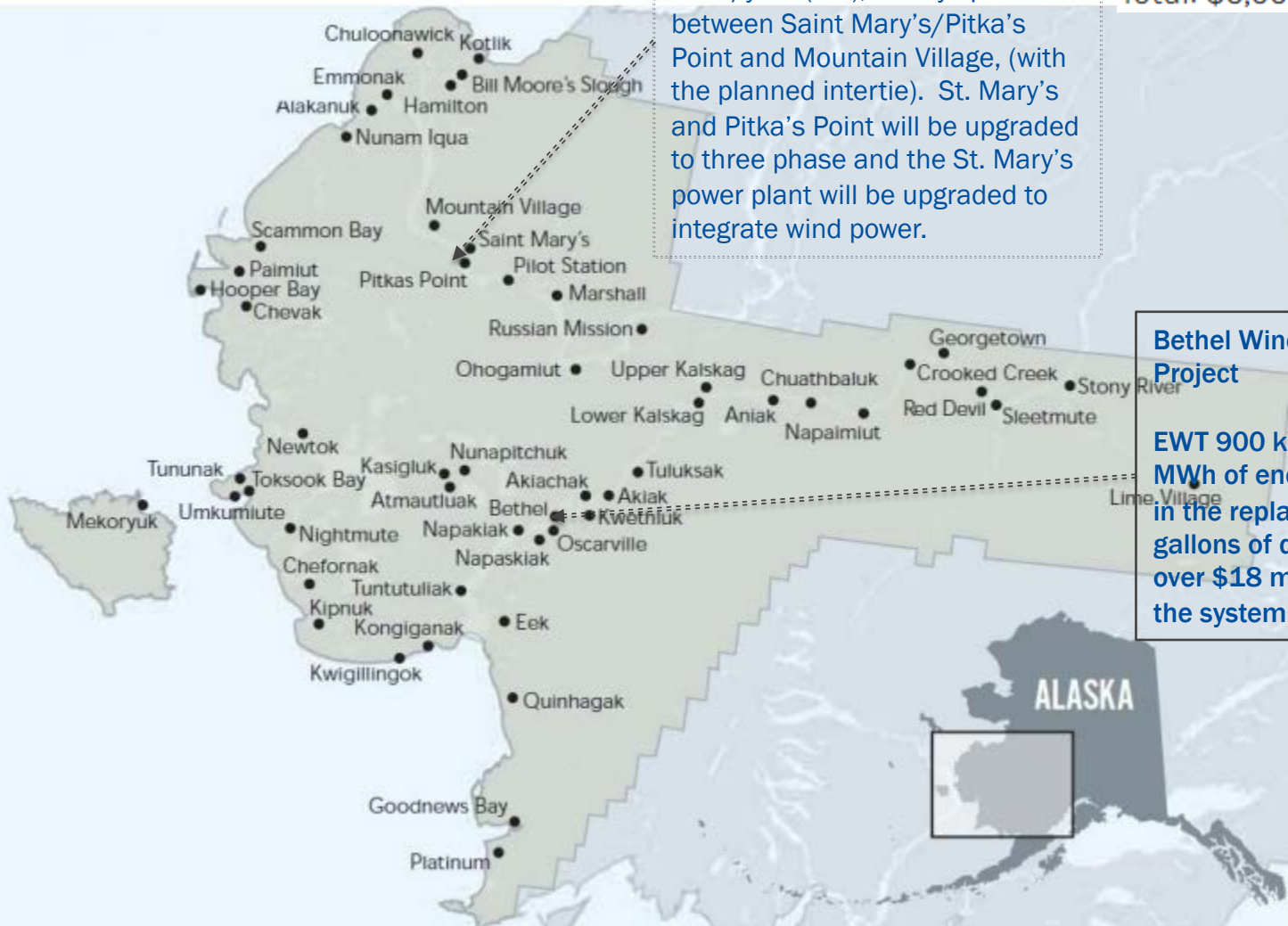
DOE: \$779,001
 Awardee: \$4,886,000
 Total: \$5,665,001

Bethel Wind Energy Construction Project

EWT 900 kW wind turbine- 2,370 MWh of energy annually resulting in the replacement of 170,280 gallons of diesel fuel per year or over \$18 million over the life of the system.

Project Amounts

DOE: \$1,000,000
 Awardee: \$3,076,575
 Total: \$4,076,575



Other wind activities

Past Grants:

- Kongiganak (2014)

Project Amounts

DOE: \$250,000

Awardee: \$13,160

Total: \$263,160

- Chaninik (2010)

Project Amounts:

DOE: \$750,000

Awardee: \$1,250,000

Total: \$2,000,000

- Eyak (2010)

Project Amounts:

DOE: \$248,107

Awardee: \$29,440

Total: \$277,547

Technical Assistance examples

- Buckland (wind/solar- rates)
- Kipnuk (rates/PCE)
- Nanwalek (data review)
- Annette (wind 101)

