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Northwest Arctic Borough

524 Kilowatts of Energy Addition in Ambler, Alaska

The Ambler Northwest Energy Tribal Energy Development Organization (ANE-TEDO) received an award from the Office of Indian Energy Policy and Programs to install additional power generation into a community-scale microgrid energy system to support autonomous operation in Ambler, Alaska. The project will increase reliability and affordability by reducing reliance on air shipments of diesel fuel.

Project Description:

The integrated energy system will power Ambler, a traditional Iñupiaq Village, and significantly reduce its reliance on imported diesel fuel. The project will install a 524 kilowatt (kW) power generation system using local resources, which will be integrated into a microgrid system that includes a 500kW power conversion system, a 1.0 megawatt hour (MWh) battery energy storage system (BESS), an electric boiler, and a microgrid controller. The microgrid will allow for more reliable, and autonomous operation. The Native Village of Ambler will establish an Independent Power Producer (IPP) to sell the output to the Alaska Village Electric Cooperative (AVEC), Ambler's electric utility.

Project Overview

Awardee: Ambler Northwest Energy Tribal Energy Development Organization (ANE-TEDO)

Location: Ambler, Alaska

Project Title: 524 Kilowatts of Power Addition in Ambler, Alaska

DOE Funding Opportunity Number:
DE-FOA-0002975

DOE Grant Number: DE-IE0000196

Projected Impacts:

- **Energy Affordability:** Expected to save \$6 million over the 25-year project life

- **Energy Addition:** Projected to increase energy supply by 33%
- **Energy Reliability:** Will supplement 800 hours of diesel operations annually, reducing maintenance, outages and preventing water freeze-ups.

Project Amounts:

- **DOE Office of Indian Energy:** \$3,435,988
- **Awardee cost-share:** \$381,875
- **Total:** \$3,817,863

Start: May 2026

About the Ambler Northwest Energy Tribal Energy Development Organization

The Ambler Northwest Energy Tribal Energy Development Organization (ANE-TEDO) is a collaboration between the Native Village of Ambler, a federally recognized Tribe, and the Northwest Arctic Borough, the municipal governmental entity for the region, supporting 11 Native communities across approximately 39,000 square miles in the northwest Arctic region of Alaska. The community in Ambler is highly remote and often dependent on airplane delivered diesel fuel to provide for all the community's electric and space heating needs and all imported goods.

About the Office of Indian Energy

Established by the Energy Policy Act of 2005, the Office of Indian Energy aims to promote Indian Tribal energy development, efficiency, and use; reduce or stabilize energy costs; enhance and strengthen Tribal energy and economic infrastructure related to natural resource development and electrification; and extend electrical power and service to Indian lands and Tribal members' homes (42 U.S.C. § 7144e).

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