

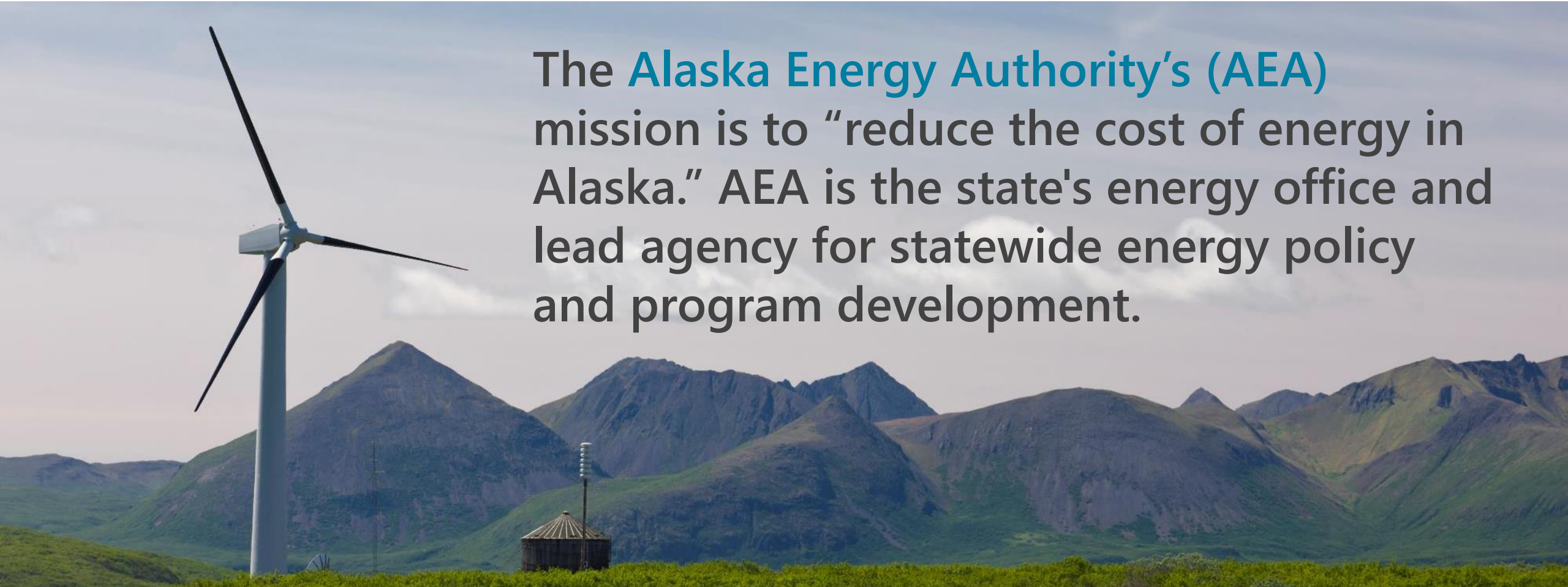
Alaska Energy Authority

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Middle Kuskokwim Climate
Adaptation Planning
February 7, 2020



Who We Are

A photograph of a white wind turbine on a grassy hill, with a small dark structure and a range of rugged, green mountains in the background under a cloudy sky.

The **Alaska Energy Authority's (AEA)** mission is to “reduce the cost of energy in Alaska.” AEA is the state's energy office and lead agency for statewide energy policy and program development.

What We Do



Energy Planning – In collaboration with local and regional partners, AEA provides critical economic and engineering analysis to plan the development of cost effective energy infrastructure.



Grants and Loans – AEA provides loans to local utilities, local governments, and independent power producers for the construction or upgrade of power generation and other energy facilities.



Railbelt Energy – AEA owns the Bradley Lake Hydroelectric Project and the Alaska Intertie. These assets benefit Railbelt consumers by reducing the cost of power.



Renewable Energy – AEA provides renewable energy and energy efficiency grants, analysis, and expertise to benefit Alaskans. These include hydro, biomass, wind, solar, and others.



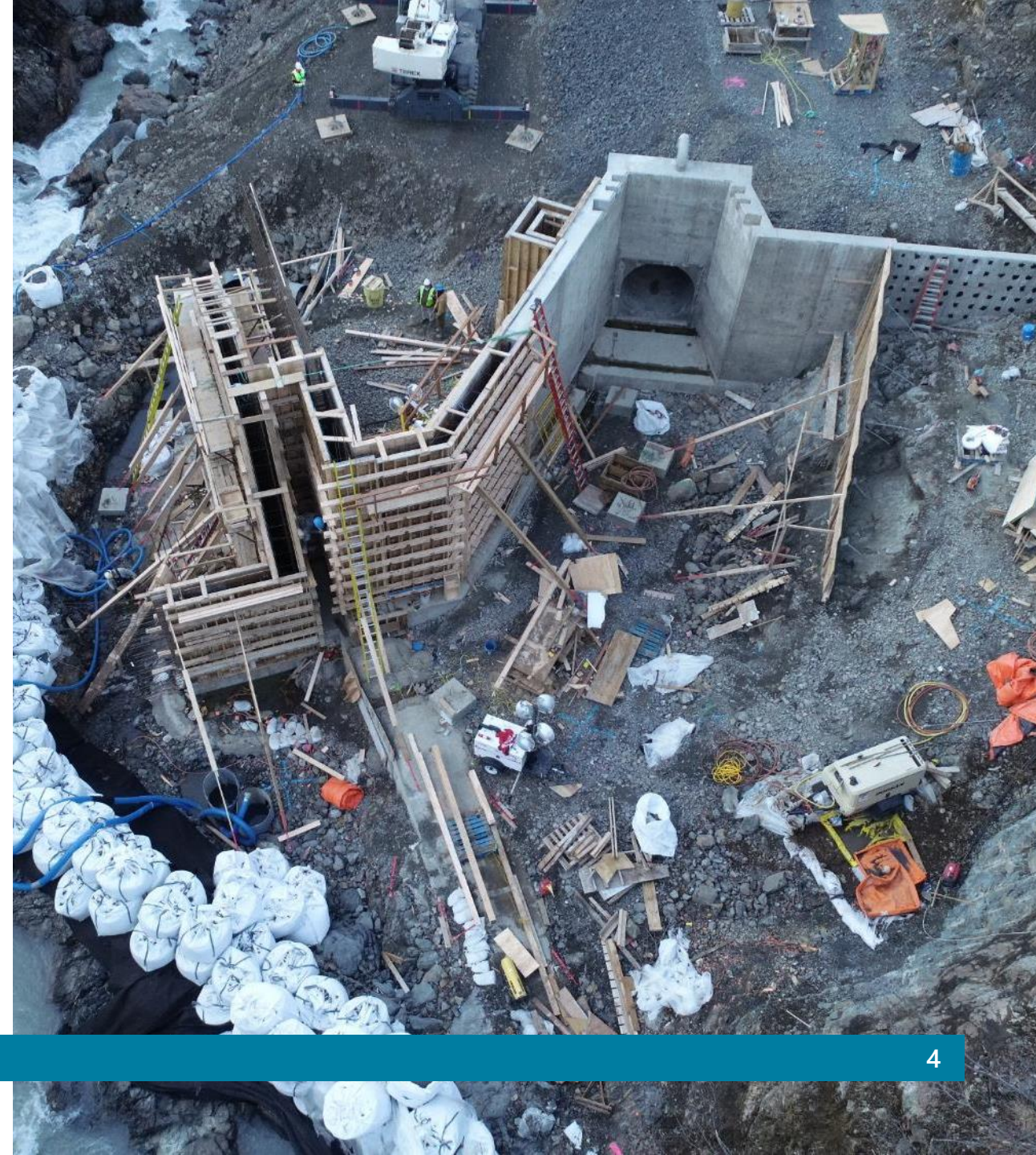
Power Cost Equalization – The Power Cost Equalization Program reduces the cost of electricity in rural Alaska for residential customers and community facilities.



Rural Energy – AEA constructs bulk fuel tank farms, diesel powerhouses, and electrical distribution grids in rural villages. AEA supports the operation of these facilities through circuit rider and emergency response programs.

Programs and Projects

- ▶ Bulk Fuel Upgrades
- ▶ Rural Power System Upgrades
- ▶ Power Cost Equalization
- ▶ Renewable Energy Fund Grants
- ▶ Power Project Fund Loans
- ▶ Alternative Energy
- ▶ Energy Efficiency
- ▶ Energy Project Development












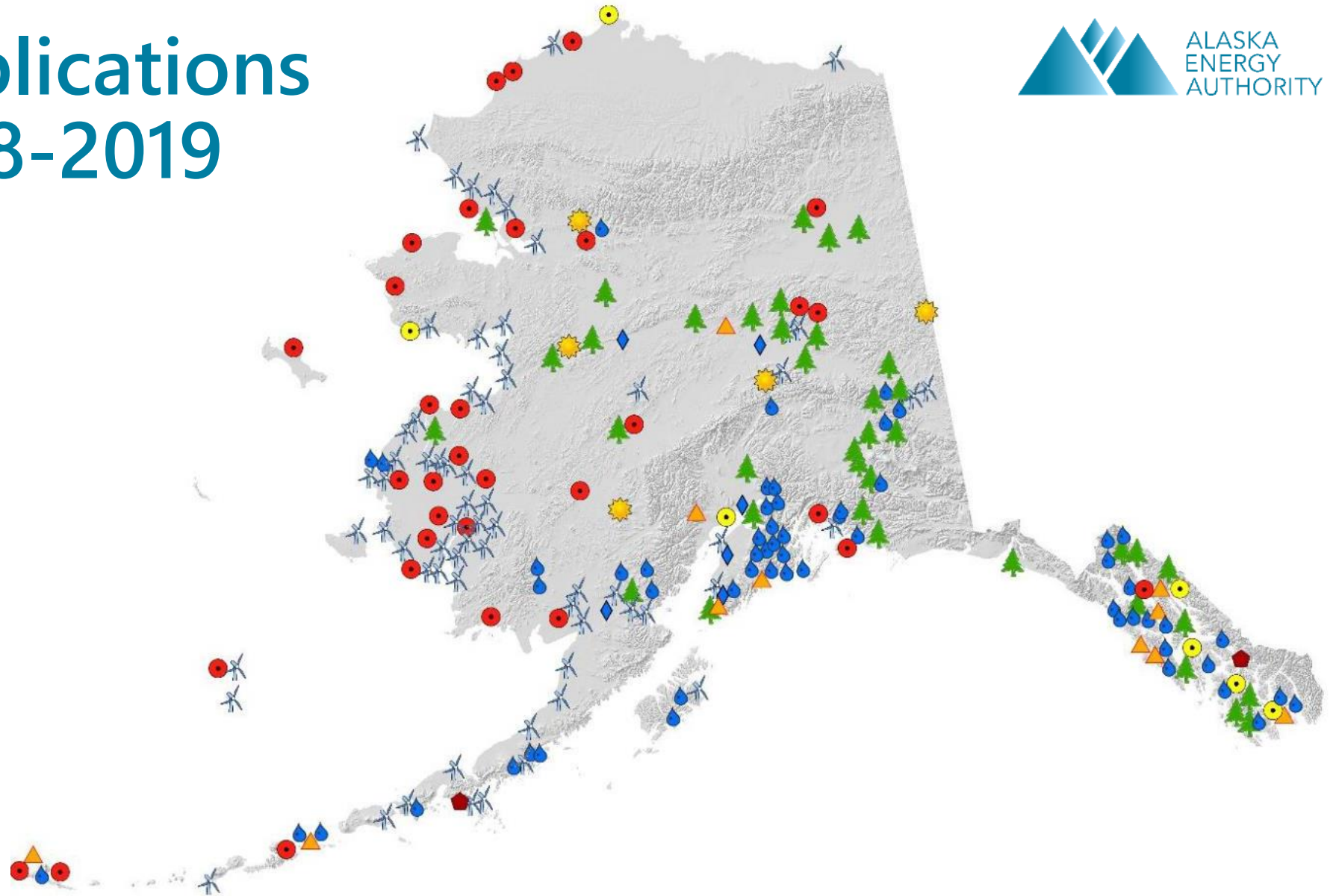
Renewable Energy Fund

- ▶ \$268 million invested in the Renewable Energy Fund (REF) by the State
- ▶ RFA to open in March with \$7-8 million in funding (could change depending on legislative session)
- ▶ 90 operational projects, 30 in development
- ▶ Displacing ~30 million diesel equivalent gallons annually
- ▶ ~\$74 million in fuel savings in 2017



295 REF Applications Funded 2008-2019

-  Biomass or BioFuels
-  Heat Pump
-  Heat Recovery
-  Hydro
-  Ocean/River
-  Solar
-  Transmission
-  Wind
-  Other

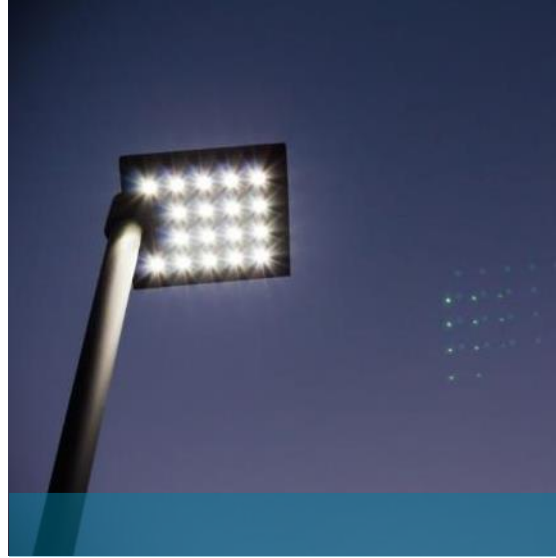


Current Opportunities at AEA



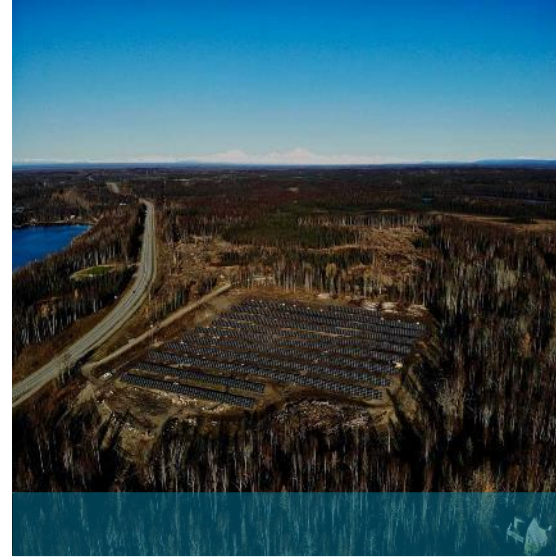
Biomass

AEA's biomass program supports free prefeasibility studies. Since 2005, AEA and the Alaska Wood Energy Development Task Group have completed 170 studies.



Energy Efficiency

AEA partnered with Wells Fargo to provide 47 communities with funding for outdoor lighting retrofits to help long-term fixed energy costs.




Power Project Fund

AEA offers low interest loans to help promote economic, sustainable power projects throughout the state.



VW Settlement

AEA is the lead entity for distributing the settlement funds. \$250,000 is set aside for Electric Vehicle infrastructure outside the Railbelt.



AEA provides **energy solutions** to meet the unique needs and opportunities of Alaska's rural and urban communities.



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