

Alaska Wood Energy Development Task Group

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Who We Are



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.



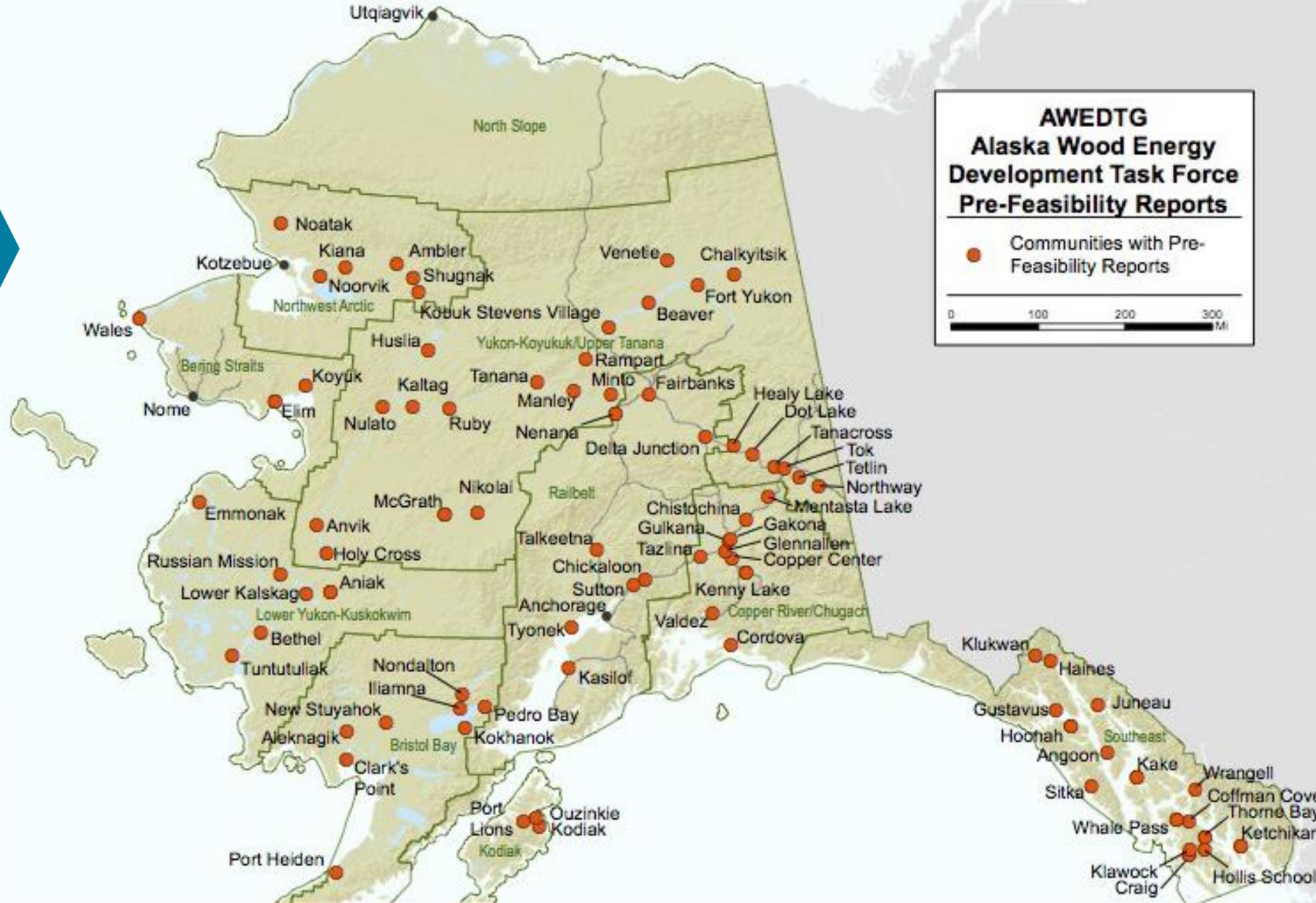
Rural Energy – AEA constructs bulk fuel tank farms, diesel powerhouses, and electrical distribution grids in rural villages. AEA supports the operation of these facilities through circuit rider and emergency response programs.

Alaska Wood Energy Development Task Group

- ▶ Mission
- ▶ Partnership of 20 groups
- ▶ Funded by US Forest Service and State of Alaska
- ▶ Provides part-time jobs
- ▶ Outreach and education
- ▶ Creates indirect engineering, forestry, construction and O&M jobs



170
 Prefeasibility
 Studies Completed
 Since 2005



Projection: NAD_1983_Alaska_Albers
 Date Updated: 5/22/2016
 Updated By: AEA - Justin Crowther
 File: AWEDTG_061913_5_Soft

AWEDTG Coalition



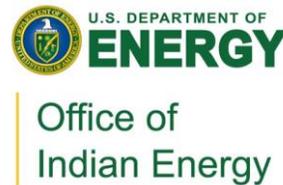
U.S. FOREST SERVICE
Caring for the land and serving people

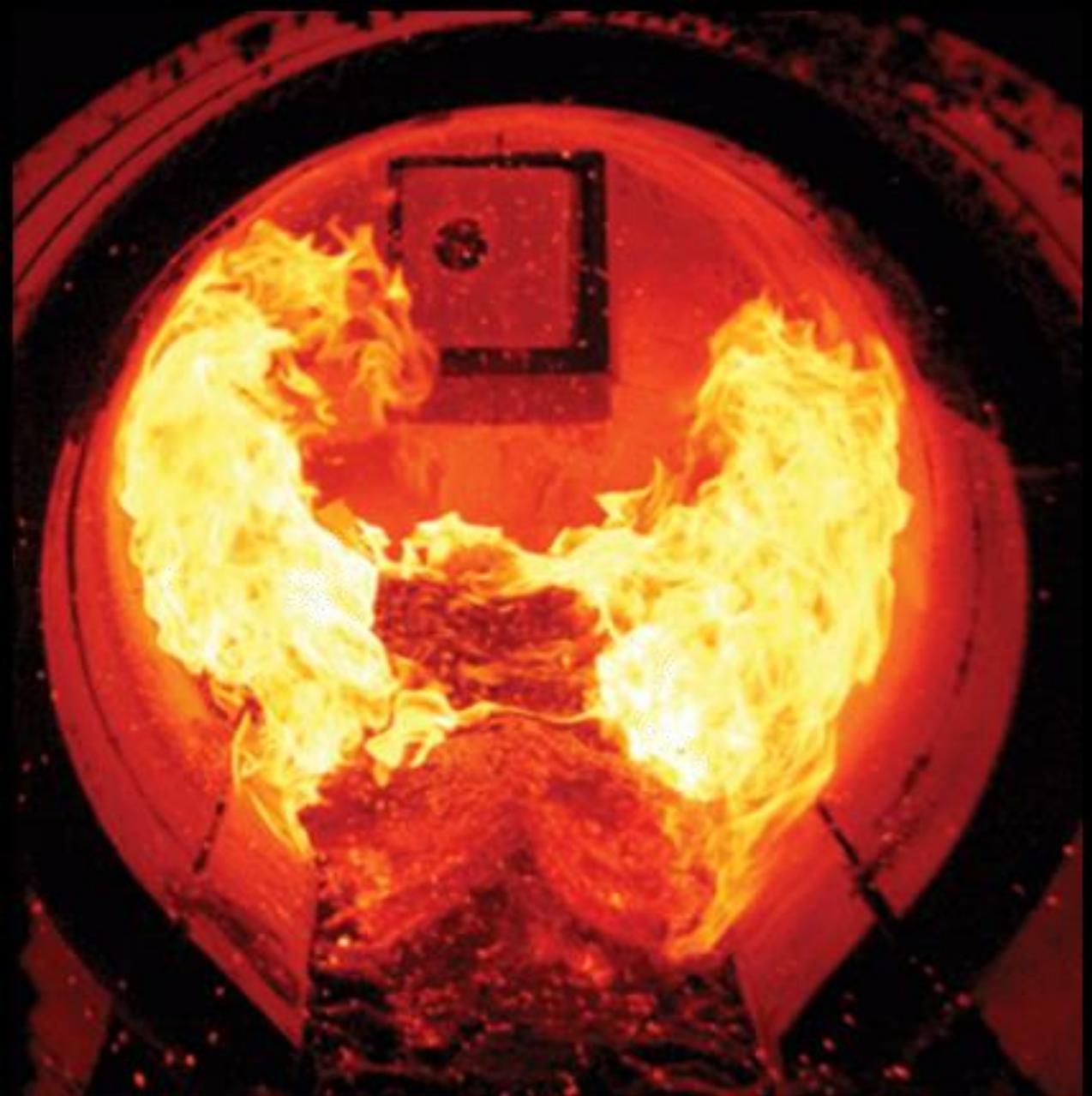


ALASKA ENERGY AUTHORITY



ACEP
Alaska Center for Energy and Power





AWEDTG Accomplishments

- ▶ Power System Upgrades
- ▶ Power Cost Equalization
- ▶ Renewable Energy Fund Grants
- ▶ Power Project Fund Loans
- ▶ Alaska C-PACE
- ▶ Alternative Energy
- ▶ Energy Efficiency
- ▶ Energy Project Development

Pellet Boilers



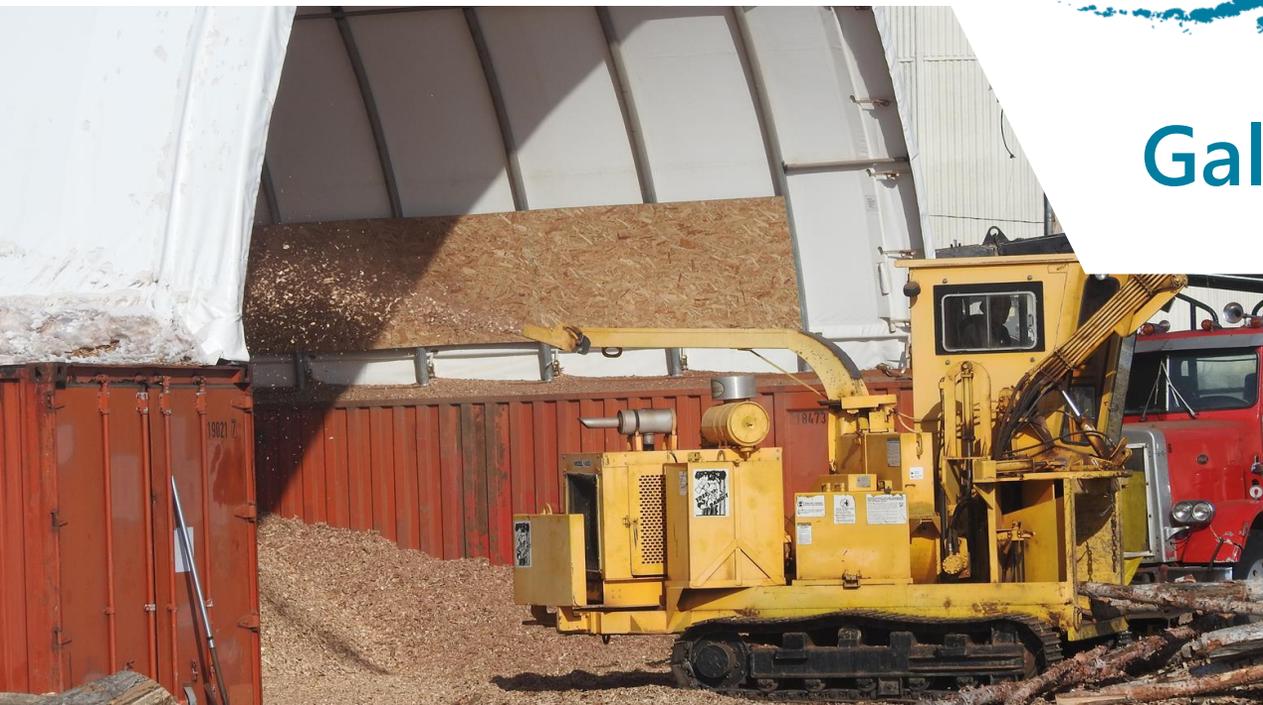
Galena

- ▶ Heating 14 buildings
- ▶ Displacing over 200,000 gallons of heating fuel
- ▶ \$3.2MM grant from AEA for the biomass system





Galena





Thorne Bay

- ▶ Capital Investment
 - \$516,686
- ▶ Fuel Displaced
 - 15,000 gallons
- ▶ Annual savings
 - \$21,400



Shovel Ready Projects



- ▶ Northway School (Chip) - \$500,000
- ▶ Craig High School (Chip) - \$769,786
- ▶ Kake Tribal District (Chip) - \$3.5MM
- ▶ Haines School & Pool (Chip) - \$1MM
- ▶ Ketchikan High School (Pellet) - \$1.25MM



Fiscal Year 2020 Goals

- ▶ Alaska State Wood Energy Website
- ▶ 2020 Alaska/Yukon Wood Conference
- ▶ Successful start-up of 3 construction projects
- ▶ Shovel Ready Projects and Creative Construction Funding



Current Opportunities at AEA



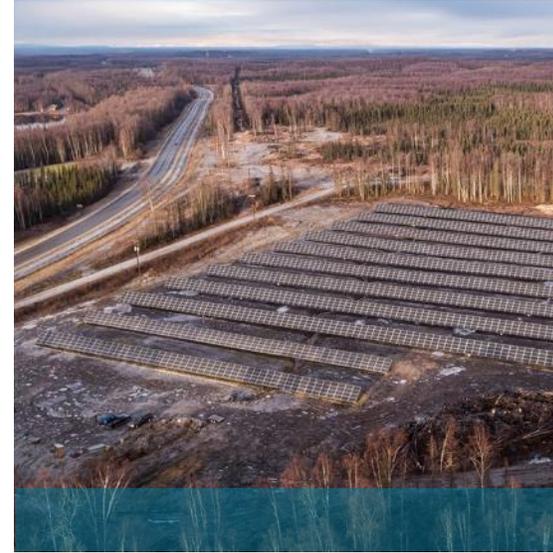
Biomass

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.



ALASKA ENERGY AUTHORITY

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