

ALASKA ENERGY AUTHORITY

AEA OVERVIEW AND TASK FORCE UPDATE

Curtis W. Thayer
Executive Director

Southeast Conference
Annual Meeting
September 20, 2023



Safe,
Reliable, and
Affordable
Energy
Solutions

About AEA

AEA's mission is to reduce the cost of energy in Alaska. To achieve this mission, AEA strives to diversify Alaska's energy portfolio — increasing resiliency, reliability, and redundancy.



Railbelt Energy – AEA owns the Bradley Lake Hydroelectric Project, the Alaska Intertie, and the Sterling to Quartz Creek Transmission Line — all of which benefit Railbelt consumers by reducing the cost of power.



Renewable Energy and Energy Efficiency – AEA provides funding, technical assistance, and analysis on alternative energy technologies to benefit Alaskans. These include biomass, hydro, solar, wind, and others.



Power Cost Equalization (PCE) – PCE reduces the cost of electricity in rural Alaska for residential customers and community facilities, which helps ensure the sustainability of centralized power.



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.




















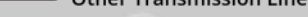






Rural Energy – AEA constructs bulk fuel tank farms, diesel powerhouses, and electrical distribution grids in rural villages. AEA supports the operation of these facilities through circuit rider and emergency response programs.

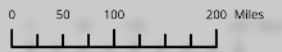
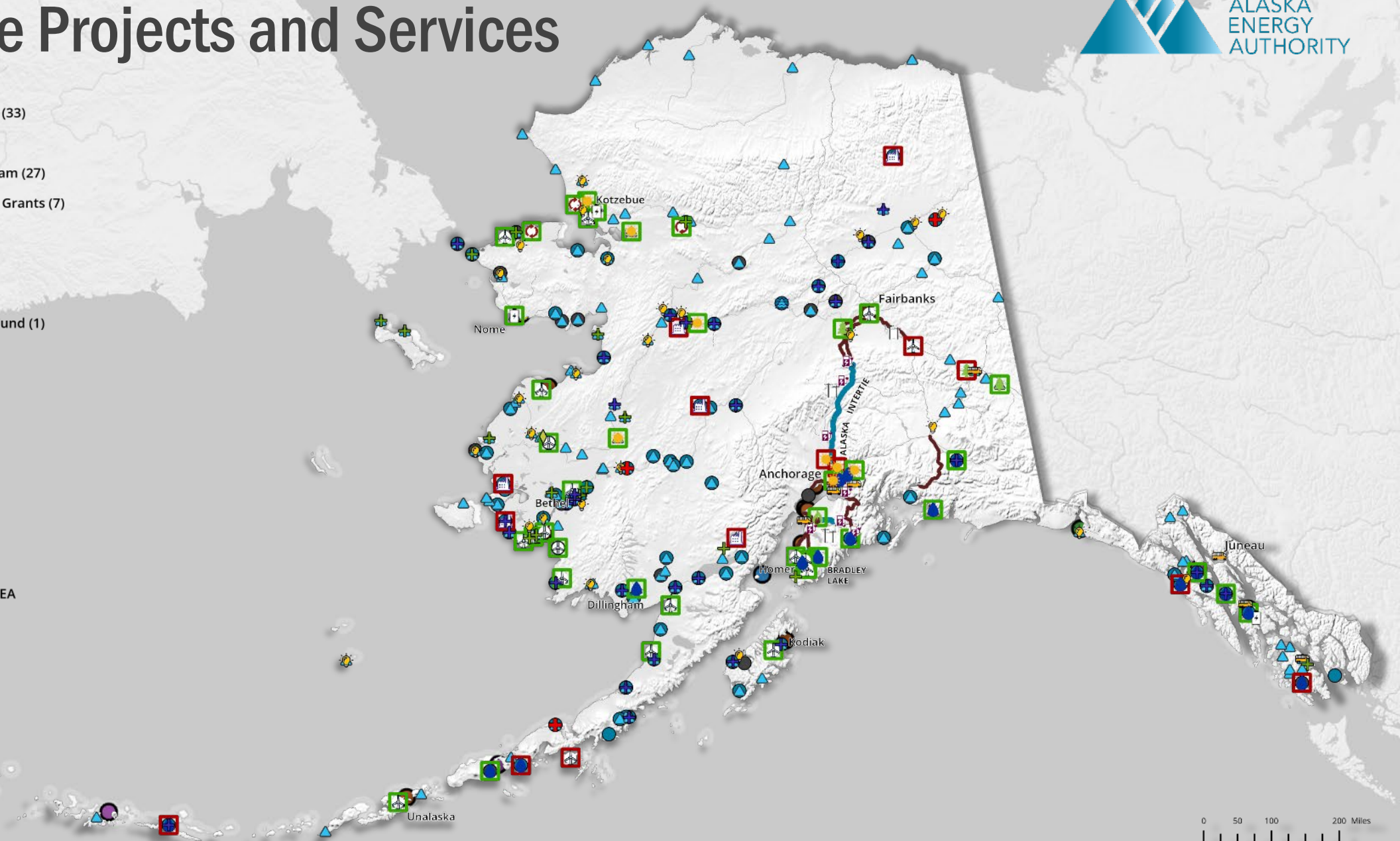


Energy Planning – In collaboration with local and regional partners, AEA provides economic and engineering analysis to plan the development of cost-effective energy infrastructure.

AEA Active Projects and Services



-  Rural Power System Upgrades (33)
-  Bulk Fuel Upgrades (25)
-  Village Energy Efficiency Program (27)
-  Volkswagen Diesel Settlement Grants (7)
-  Biogas (1)
-  Biomass (4)
-  Diesel (6)
-  Emerging Energy Technology Fund (1)
-  Electric Vehicles (9)
-  Heat Recovery (3)
-  Hydroelectric (18)
-  Hydrokinetic (1)
-  Solar (8)
-  Storage (3)
-  Transmission (3)
-  Wind (21)
-  Transmission Line owned by AEA
-  Other Transmission Line
-  Power Project Fund (16)
-  Renewable Energy Fund (44)
-  PCE Communities (193)
-  Emergency Assistance (3)
-  Circuit Rider Assistance (93)
-  Utility Training (81)



Alaska Energy Security Task Force

Administrative Order No. 345

“The ***purpose*** of the AESTF ***is to develop a comprehensive statewide energy plan*** that will evaluate energy generation, distribution, transmission, and storage for the State of Alaska and its communities.

The development of this plan will include ***collaboration with public and private stakeholders.***



Administrative Order No. 345

I, Mike Dunleavy, Governor of the State of Alaska, under the authority of Article III, Sections 1 and 24 of the Alaska Constitution, and in accordance with AS 44.19.145(c), hereby revoke Administrative Order 344, establishing the Alaska Energy Security Task Force ("Task Force"), and issue this Administrative Order 345, reinstating the Task Force with a revised membership and reporting structure.

BACKGROUND

On September 30th, 2022, Governor Dunleavy established the Office of Energy Innovation to provide a central point of focus for Alaska's efforts to reduce the cost of energy for residents. Alaskans suffer from exorbitantly high energy costs, restricted energy supply, and limited opportunities to drive down energy costs to consumers. Consequently, energy security and affordability are critical to Alaska's prosperity going forward. The Task Force will provide recommendations on overall energy policy for the State of Alaska, as well as strategies and tactics to achieve its goal of reducing the cost of energy to Alaska residents.

PURPOSE

The purpose of the Task Force is to develop a comprehensive statewide energy plan that will evaluate energy generation, distribution, and transmission for the State of Alaska and its communities. The development of this plan will include collaboration with public and private stakeholders. The statewide energy plan, including proposed timelines and milestones, will be presented to the governor upon completion.

Task Force Organization

15 Member Board

Chaired by Lt. Governor Dahlstrom

5 Ex-officio members from legislature, state & federal agencies



Lieutenant Governor Nancy Dahlstrom
Chair



Curtis W. Thayer
Alaska Energy Authority
Vice Chair



Clay Koplin
Cordova Electric Cooperative
Vice Chair



Commissioner John Boyle
Department of Natural Resources



Commissioner Emma Pokon
Department of Environmental Conservation



Nils Andreassen
Alaska Municipal League



Andrew Guy
Calista Corporation



Karl Hanneman
International Tower Hill Mines



Tony Izzo
Matanuska Electric Association



Jenn Miller
Renewable IPP



Duff Mitchell
Juneau Hydropower



John Sims
ENSTAR Natural Gas Company



Isaac Vanderburg
Launch Alaska



Robert Venables
Southeast Conference



Dan White
University of Alaska Fairbanks



Senator Click Bishop
(Ex Officio)



Garrett Boyle
Denali Commission
(Ex Officio)



Commissioner Keith Kurber
Regulatory Commission of Alaska
(Ex Officio)



Representative George Rauscher
(Ex Officio)



Dr. Erin Whitney
U.S. Department of Energy
Arctic Energy Office
(Ex Officio)

Task Force Subcommittee

Representation from across the State

Three Regional Subcommittees:

Railbelt Transmission, Generation, and Storage

Co-Chair: Tony Izzo
Co-Chair: Jenn Miller
Support: Michael Baker International

Rural Generation, Distribution, and Storage

Co-Chair: Clay Koplín
Co-Chair: Andrew Guy
Support: Michael Baker International

Coastal Generation, Distribution, and Storage

Co-Chair: Duff Mitchell
Co-Chair: Robert Venables
Support: Michael Baker International

Three Support subcommittees:

Statutes and Regulations Reform

Co-Chair: Robert Venables
Co-Chair: Karl Hanneman
Support: Michael Baker International

Incentives and Subsidies

Co-Chair: Nils Andreassen
Co-Chair: Isaac Vanderburg

State Energy Data

Chair: Dan White
John Boyle
Support: Alaska Center for Energy and Power

Planning Process for the Energy Master Plan

Roles:

Responsibilities:

Governor's Office:
Created A.O. 345

Approves Final Energy Master Plan

Alaska Energy Security Task Force (AESTF):
Primary decision-making body to produce Energy Master Plan

Sets goal(s) and priorities of the Energy Master Plan and reviews and approves strategies/actions developed by the subcommittees.

Subcommittees:
Organized by energy focus area or energy priority

Develops energy actions, and implementation timetables to meet the goal(s) of the AESTF.

PUBLIC & STAKEHOLDER INVOLVEMENT

ENERGY SYMPOSIUM SERIES

ACADEMIA & CONSULTANT SUPPORT

Energy Symposium Series

- 7/13** – Cook Inlet Natural Gas Supply & Development
- 7/20** – Alaska Rural Energy: Challenges and Opportunities
Opportunities for Reducing the Cost of Energy
- 7/27** – Global Trends and Grid of the Future
- 8/03** – Railbelt Hydropower Development & Financing: Lessons Learned
for the Past, Opportunities for the Future.
- 8/17** – Alaska Energy Statistics and Economics
- 8/24** – Transmission and Storage: Building a More Resilient Grid
- 8/31** – Emerging Technologies and Opportunities for Alaska:
Small Scale Nuclear
- 9/07** – RPS and Clean Energy Standards: National Policy Comparisons

For more information on the symposiums visit [Energy Symposium Series](#).



The poster features a blue header with the ACEP logo (Alaska Center for Energy and Power) and the University of Alaska Fairbanks logo. The main image shows a large solar farm under a cloudy sky. Three circular inset images show a hydroelectric dam, two workers in hard hats, and a long tunnel. The text 'Energy Symposium Series of 8 Zoom Webinars' is prominently displayed. A yellow callout box indicates the schedule: 'Weekly on Thursdays Starting July 13th 11:00 am'. Below this, a paragraph invites participation. A 'Topics Include:' section lists eight items with checkmarks. A QR code is located in the bottom right corner.

ACEP
Alaska Center for Energy and Power

UAF UNIVERSITY OF ALASKA
FAIRBANKS

Energy Symposium

Series of 8
Zoom Webinars

Weekly on
Thursdays
Starting
July 13th
11:00 am

Join us for presentations on energy issues in Alaska. Learn about the challenges, opportunities, and other factors that Alaska Energy Security Task Force members need to consider as part of the development of a statewide energy plan.

Topics Include:

- ✓ Future Natural Gas Supply for the Railbelt
- ✓ Reducing the Cost of Rural Alaska Energy
- ✓ Energy Statistics & Economics
- ✓ Grid of the Future
- ✓ Railbelt Hydropower Development & Financing
- ✓ Overview of Energy Policy & Planning Foundations
- ✓ Transmission & Storage
- ✓ Emerging Technologies and Opportunities

More info: www.uaf.edu/acep

UAF is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/nondiscrimination/

A.O. No. 345 Requirements

Comprehensive Energy Plan shall include the following:

Identify Future Changes:

- **Identify solutions** for meeting Alaska's energy needs now and in the future **with a focus on affordability, reliability, and security.**
- **Identify policies, programs, regulatory changes, and funding** that could accelerate adoption of these energy strategies.
- **Identify and evaluate potential future changes** that could occur **to energy supply and distribution in the state**, the impacts of such changes, and the opportunity for mitigating impacts and leveraging opportunities associated with such change.

Task Force Proposed Work Schedule

Key Milestones	Completed By
Data Sub Final Reports	Tuesday, September 19, 2023
Receive Initial Report & Presentation, Public Comment Meeting	Tuesday, October 3, 2023
Task Force Meeting; Release Draft Report for Public Comment <i>(Meeting Added)</i>	Tuesday, October 10, 2023
Public Comment Incorporated in Draft Final Report (No Task Force Meeting)	Tuesday, October 24, 2023
Discuss Final Report; Vote on Recommendations; send to GOA; Public Comment on Final Report	Tuesday, October 31, 2023
Task Force Receives Final Report (No Task Force Meeting)	Friday, November 10, 2023
Vote to Approve Final Report	Friday, November 17, 2023
Final Submittal to Governor	Friday, December 1, 2023

Progress by the Numbers

To Date:

- 30+ Subcommittee Meetings
- 7 Task Force Meeting
- 120+ Hours of Public Meetings
- 8 Energy Symposiums with 16 Hours of OnDemand learning
- 6 Subcommittees have created over 60 preliminary actions for consideration
 - Working to prioritize actions into recommendations

Railbelt Transmission, Generation, and Storage Subcommittee - Preliminary Actions
 Alaska Energy Security Task Force
 (Draft as of 8/29/2023)

Note: This is a draft, deliberative document for discussion purposes only. The preliminary action recommendations contained in this document have not been officially endorsed by the Alaska Energy Security Task Force at this time.

Number	Action Name (e.g., Policy, Regulation, Program, Improvement, Activity)	Action Description (100 words or less)	Implementation Timeframe (Immediate, Short, Medium, Long-term)	Lead Organization (Primary Organization Responsible to Implement)	Partners & Collaborators (Supporting Secondary Organizations)	Action Status (New, On-going, Withdrawn)
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Railbelt Transmission, Generation, and Storage Subcommittee - Preliminary Actions
 Alaska Energy Security Task Force
 (Draft as of 8/29/2023)

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Railbelt - 5	Identify how BESS (Battery Energy Storage Systems) and other Energy Storage Systems (ESS) could be successfully integrated and lower the cost of power.	Identify successful ESS use in Alaska or other case studies beneficial for future use in Alaska communities. Explore all storage opportunities, including pump storage and battery energy. Evaluate opportunity to re-use or re-purpose existing infrastructure.	Short (2 - 5 years)	Railbelt Utilities/AEA	B&V, ACEP	New
Railbelt - 6	Investigate lessons learned and case studies from Icelandic Energy Grid, including comprehensive policy decisions and rate allocation.	Identify successful case studies from Iceland for potential applicability to Alaska, including interties, transmissions, and spreading rates across the jurisdiction. Include cross-topical references and discussion, regarding industry and food production. Identify components of the Icelandic system that are attractive to the committee, and flesh out applicability to Alaska. Break out into subtopics for future discussion - transmission, generation, cost sharing systems.	Short (2 - 5 years)	ACEP	B&V; AEA	New
Railbelt - 7	Explore a scenario that articulates change to electricity demand and cost to convert residences to electric heat	Note: Need to confirm if in scope vs out of scope with main task force.	Short (2 - 5 years)	ACEP	B&V; AEA	New
Railbelt - 8	Evaluate opportunities to invest in/fund additional transmission and connectivity into a regional transmission commission to facilitate an equal playing field regarding shared online energy.	Evaluate cost, solutions, and shared responsibilities.	Short (2 - 5 years)	AEA	RCA; Railbelt Utilities	New
Railbelt - 9	Adopt a Clean Energy Standard	Adopt a Clean Energy Standard	Long-term (10 years plus)	State Legislature/Governor's Office	RCA	New
Railbelt - 10	Develop Dixon diversion to increase Bradley Lake Power	Increase Bradley output by 50%	Medium (5 - 10 years)	AEA	Railbelt Utilities	On-going
Railbelt -11	Complete FERC Licensing of Susitna-Watana	Increase renewable on Railbelt by 50%	Long-term (10 years plus)	AEA	Railbelt Utilities; Private Investment	New
CEDS Action (For Consideration)	Railbelt Clean Energy Portfolio	Adopt a clean energy portfolio standard that targets 80% clean energy while simultaneously reducing energy costs for users in the Railbelt by 2040.	Long-term (10 years plus)	Governor's Office	RCA	From CEDs 2022 Plan (For Consideration)
CEDS Action (For Consideration)	Railbelt Transmission Line Capacity Expansion	Upgrade Railbelt transmission lines to increase transmission capacity.	Medium (5 - 10 years)	AEA	Electric utilities	From CEDs 2022 Plan (For Consideration)

Railbelt Subcommittee
Alaska Energy Security Task Force

Draft as of
08/29/2023

Railbelt - 2

Task Force Email and Website



Email

AEA-hosted info email account created to capture correspondence related to the Task Force.

info@akenergysecuritytaskforce.com



Website

AEA-hosted external webpage houses the Task Force's schedule, public notices, recordings, minutes, documents, and resources as they are created.

<http://akenergysecuritytaskforce.com>

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

Alaska Energy Authority

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