Alaska Energy Security Task Force Meeting

June 27, 2023

June 27, 2023 Agenda

AESTF Meeting

Welcome to the Alaska Energy Security Task Force (AESTF) Meeting. We're looking forward to collaborating on policies, strategies, and tactics to assist in the State of Alaska's goal of reducing energy costs.

Alaska Energy Security Task Force

1. Welcome and Introductions
2. Roll Call
3. Prior Meeting Minutes
4. Presentations:
   - Alaska Energy Authority (AEA) IIJA and IRA Opportunities
   - Railbelt IIJA GRIP Opportunities
   - Rural Microgrid Transformation IIJA GRIP Opportunity
   - Regulatory Commission of Alaska
   - AEA Power Cost Equalization
   - Renewable Energy Fund Round 16
   - Cook Inlet Gas, Enstar (Verbal)
5. Contractor Support
   - Black & Veatch
   - Michael Baker International
6. July-September Meeting Schedule
7. Subcommittee Formation:
   - Chairs/Co-Chairs Assignments
   - Tasking/Scope of Work
8. Discussion — Webinar Topics
9. Housekeeping; Travel
10. Adjourn

Purpose

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.

Organization

Member	Email Address
Lieutenant Governor Nancy Dahlstrom, Chair	lt.governor@alaska.gov
Curtis W. Thayer, Alaska Energy Authority, Vice Chair	cthayer@akenergyauthority.org
Clay Koplin, Cordova Electric Cooperative, Vice Chair	ckoplin@cordovaelectric.com
Commissioner John Boyle, Department of Natural Resources	john.boyle@alaska.gov
Commissioner Jason Brune, Department of Environmental Conservation	jason.brune@alaska.gov
Nils Andreassen, Alaska Municipal League	nils@akml.org
Andrew Guy, Calista Corporation	aguy@calistacorp.com
Karl Hanneman, International Tower Hill Mines	khanneman@ithmines.com
Tony Izzo, Matanuska Electric Association	tony.izzo@mea.coop
Jenn Miller, Renewable Independent Power Producers	jenn.miller@renewableipp.com
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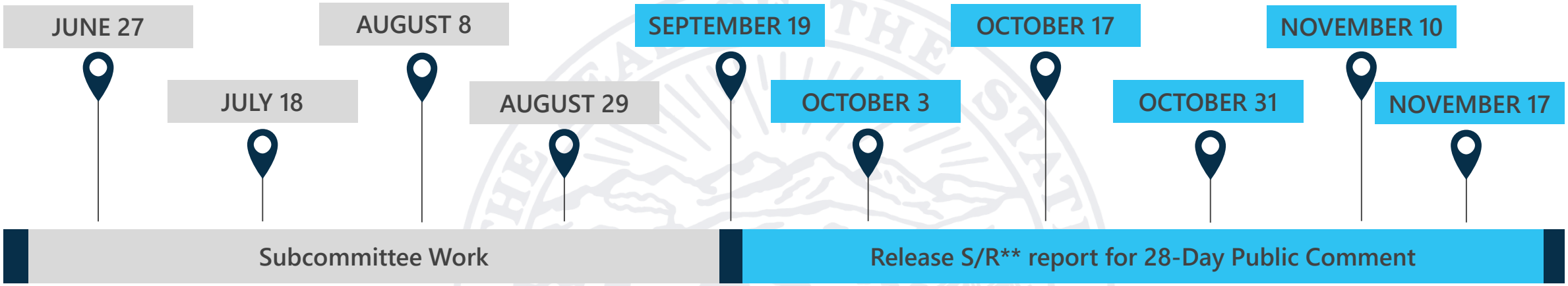
John Sims, ENSTAR Natural Gas Company	john.sims@enstarnaturalgas.com
Isaac Vanderburg, Launch Alaska	isaac@launchalaska.com
Robert Venables, Southeast Conference	robert@seconference.org
Dan White, University of Alaska Fairbanks	uaf.chancellor@alaska.edu
Senator Click Bishop (Ex Officio)	senator.click.bishop@akleg.gov
Garrett Boyle, Denali Commission (Ex Officio)	gboyle@denali.gov
Commissioner Keith Kurber, Regulatory Commission of Alaska (Ex Officio)	keith.kurber@alaska.gov
Representative George Rauscher (Ex Officio)	representative.george.rauscher@akleg.gov
Erin Whitney, United States Department of Energy, Arctic Energy Office (Ex Officio)	erin.whitney@hq.doe.gov
*Andrew Jensen, Policy Advisor, Office of Governor Mike Dunleavy	andrew.jensen@alaska.gov

Alaska Energy Security Task Force

Proposed Work Schedule



Key Milestones	Completed By
Regional Sub Status Reports	Tuesday, July 18, 2023
Regional Sub Initial Reports	Tuesday, August 8, 2023
Regional Sub Final Reports and I/S/S/R* Data Sub Initial Reports	Tuesday, August 29, 2023
I/S S/R* Data Sub Final Reports; Release S/R** report for 28-Day Public Comment	Tuesday, September 10, 2023
Receive Initial Report, Release for 28-day Public Comment; Take Public Comment on S/R** Report	Tuesday, October 3, 2023
Discuss S/R** Final Report; Vote on Recommendations; Take Public Comment on Initial Report	Tuesday, October 17, 2023
Discuss Final Report; Vote on Recommendations; Receive Final S/R** Report; send to GOA	Tuesday, October 31, 2023
Task Force Receives Final Report	Friday, November 10, 2023
Vote to Approve Final Report	Friday, November 17, 2023

*Incentives and Subsidies and Statutes and Regulations Reform
**Statutes and Regulations Reform

Subcommittee Formation

State Energy Data

Chair: Dan White
John Boyle
Conner Erickson, AEA Observer
Support: Alaska Center for Energy and Power (ACEP)

Statutes and Regulations Reform

Co-Chair: Robert Venables
Co-Chair: Karl Hanneman
Keith Kurber
Tony Izzo
Isaac Vanderburg
Click Bishop
George Rauscher
Karen Bell, AEA Observer
Support: Michael Baker International

Railbelt Transmission, Generation, and Storage

Co-Chair: Tony Izzo
Co-Chair: Jenn Miller
John Sims
Curtis Thayer
Bryan Carey, AEA Observer

Rural Generation, Distribution, and Storage

Co-Chair: Clay Koplin
Co-Chair: Andrew Guy
Nils Andreassen
Garrett Boyle
Jason Brune
Tim Sandstrom, AEA Observer
Support: Michael Baker International

Coastal Generation, Distribution, and Storage

Co-Chair: Duff Mitchell
Co-Chair: Robert Venables
Clay Koplin
Audrey Alstrom, AEA Observer
Support: Michael Baker International

Incentives and Subsidies

Co-Chair: Nils Andreassen
Co-Chair: Isaac Vanderburg
John Sims
Andrew Guy
Karen Bell, AEA Observer

State Energy Data

Purpose

Recommendation to establish a Data Subcommittee to directly support the Alaska Energy Security Task Force's duty to establish a plan for Alaska that includes:

- Establish a baseline energy portfolio for the State of Alaska
- Develop and maintain a public database of task force information and recommend strategies for sharing energy data and information through an energy data portal

Responsibilities

- Identify valuable energy data resources, data ownership, and determine data availability
- Identify data systems, products, services, and platforms used for data collection, storage, documentation, preservation, and sharing

Deliverables

- Inventory of available energy data, data ownership, and data availability
- Inventory data systems, products, services, and platforms used for data collection, analysis, and reporting
- SWOT analysis of data end users and their needs
- Recommendations for data schemas, frameworks, partners, and standardizations to improve interoperability and collaboration between data and service providers to establish, serve, and maintain data tools

Statutes and Regulations Reform

Purpose

Propose recommendations that support the goals of the Alaska Energy Security Task Force to establish a plan that includes:

- Streamlining permitting and reducing regulatory burden
- Updating outdated provisions including reflecting changes in energy production and consumption - such as net metering regulations, micro-nuclear development, supporting green hydrogen development, renewable energy credits
- Promoting renewable energy development
- Encouraging energy efficiency
- Supporting workforce development
- Evaluating Renewable Portfolio Standards
- Ensuring Alaska's energy independence

Deliverables

- Recommended Legislative amendments
- Recommended changes to federal funding programs and regulations
- Policy recommendations with impact assessments, where possible
- Recommended implementation framework

Responsibilities

- Identify relevant statutes and regulations – State and Federal
- Assess impacts of proposed changes
- Develop reasonable timeline with milestones
- Identify stakeholders for public outreach

Railbelt Transmission, Generation, and Storage

Purpose

Propose recommendations that support the goals of the Alaska Energy Security Task Force to establish a plan that includes:

- Promoting renewable energy development
- Encouraging energy efficiency
- Supporting workforce development
- Lowering the retail cost of energy
- Ensuring Alaska's energy independence
- Increasing reliability and resilience
- Local economic development

Deliverables

- Prioritized list of recommended infrastructure upgrades and maintenance, with cost estimates
- Policy recommendations for Railbelt modernization initiatives and cost pooling or bulk purchase opportunities
- Evaluation of emergency response plans and recommend update

Responsibilities

- System assessment and identification of vulnerabilities
- Assess impacts of proposed changes
- Develop reasonable timeline with milestones
- Identify stakeholders for public outreach

Rural Generation, Distribution, and Storage

Purpose

Propose recommendations that support the goals of the Alaska Energy Security Task Force to establish a plan that includes:

- Promoting renewable energy development with a focus on Wind, Solar, and Hydro
- Encouraging energy efficiency
- Supporting workforce development
- Lowering the retail cost of energy
- Ensuring Alaska's energy independence
- Increasing reliability and resilience
- Local economic development

Deliverables

- Prioritized list of projects, with cost estimates
- Policy recommendations for rural initiatives
- Identification of potential project bundling opportunities

Responsibilities

- Assessment and identification of vulnerabilities
- Assess impacts of proposed changes
- Develop reasonable timeline with milestones
- Identify stakeholders for public outreach

Coastal Generation, Distribution, and Storage

Purpose

Propose recommendations that support the goals of the Alaska Energy Security Task Force to establish a plan that includes:

- Promoting renewable energy development with a focus on Tidal, offshore wind, and hydrogen fuel cells
- Encouraging energy efficiency
- Supporting workforce development
- Lowering the retail cost of energy
- Ensuring Alaska's energy independence
- Increasing reliability and resilience
- Local economic development

Deliverables

- Prioritized list of demonstration projects, with cost estimates
- Policy recommendations for coastal initiatives
- Identification of potential permitting issues

Responsibilities

- Evaluation of current technologies, including costs, and identification of opportunities and risks
- Assess impacts of proposed changes
- Develop reasonable timeline with milestones
- Identify stakeholders for public outreach

Incentives and Subsidies

Purpose

Propose recommendations that support the goals of the Alaska Energy Security Task Force to establish a plan that includes:

- Lowering the cost of energy in Alaska
- Maximizing the use of federal incentives to increase the financial and economic impact of capital projects
- Promoting renewable energy development
- Encouraging energy efficiency
- Supporting workforce development
- Ensuring Alaska's energy independence

Deliverables

- Identify opportunities for credits and incentives for current and future projects
- Policy recommendations for changes to state subsidies with impact assessments, where possible
- Public information and stakeholder engagement plan
- Develop recommendations to leverage incentives and subsidies to maximize public benefit

Responsibilities

- Identify current incentive and subsidies available – Federal, State, Nationwide
- Develop reasonable timeline with milestones
- Identify stakeholders for public outreach

Discussion – Webinar Topics

Q1 Symposium Topic: Energy in Alaska

	NOT INTERESTED	LOW INTEREST	MEDIUM INTEREST	HIGH INTEREST	CRITICALLY IMPORTANT	TOTAL	WEIGHTED AVERAGE
Railbelt Grid - history, future trajectory, ownership and management, transmission	0.00% 0	9.09% 1	27.27% 3	18.18% 2	45.45% 5	11	4.00
Cook Inlet Natural Gas Supply/Development - history, current status, future projections	0.00% 0	18.18% 2	0.00% 0	18.18% 2	63.64% 7	11	4.27
Rural Electrification - history, current status, future projections	0.00% 0	0.00% 0	18.18% 2	36.36% 4	45.45% 5	11	4.27
Hydropower Development in Alaska - past development and state investment, future opportunities	0.00% 0	0.00% 0	27.27% 3	27.27% 3	45.45% 5	11	4.18
Southeast Alaska - Regional challenges and opportunities	9.09% 1	18.18% 2	18.18% 2	18.18% 2	36.36% 4	11	3.55

Discussion – Webinar Topics

Q2 The Economics of Energy in Alaska

	NOT INTERESTED	LOW INTEREST	MEDIUM INTEREST	HIGH INTEREST	CRITICALLY IMPORTANT	TOTAL	WEIGHTED AVERAGE
Alaska's Economy - how it works	9.09% 1	18.18% 2	18.18% 2	27.27% 3	27.27% 3	11	3.45
Alaska Energy Statistics - preview of updated energy statistics report, to be published June 2023	0.00% 0	18.18% 2	18.18% 2	36.36% 4	27.27% 3	11	3.73
Power Cost Equalization (PCE) - program overview	0.00% 0	36.36% 4	18.18% 2	27.27% 3	18.18% 2	11	3.27
The Economics of "Cheap" Power - who has the cheapest power in the world and why?	0.00% 0	9.09% 1	18.18% 2	27.27% 3	45.45% 5	11	4.09
Funding and financing energy infrastructure and projects - status quo in Alaska	0.00% 0	0.00% 0	0.00% 0	54.55% 6	45.45% 5	11	4.45

Discussion – Webinar Topics

Q3 Energy Policy and Programs

	NOT INTERESTED	LOW INTEREST	MEDIUM INTEREST	HIGH INTEREST	CRITICALLY IMPORTANT	TOTAL	WEIGHTED AVERAGE
Alaska Energy Policy - previous energy planning and policy efforts	0.00% 0	36.36% 4	45.45% 5	9.09% 1	9.09% 1	11	2.91
Policy and Planning Best Practices - experience of other state and justifications in energy planning	0.00% 0	0.00% 0	54.55% 6	45.45% 5	0.00% 0	11	3.45
Rural Energy Subsidization - PCE comparison to alternative programs in other markets	0.00% 0	9.09% 1	36.36% 4	45.45% 5	9.09% 1	11	3.55
Federal Landscape and Funding Opportunities	0.00% 0	10.00% 1	20.00% 2	50.00% 5	20.00% 2	10	3.80
Iceland Energy Policies & Relevance to Alaska 10 cent goal (grid ownership, district heating, project funding and financing)	0.00% 0	0.00% 0	45.45% 5	36.36% 4	18.18% 2	11	3.73

Discussion – Webinar Topics

Q4 The Changing Global Energy Landscape

	NOT INTERESTED	LOW INTEREST	MEDIUM INTEREST	HIGH INTEREST	CRITICALLY IMPORTANT	TOTAL	WEIGHTED AVERAGE
Oil and Gas Industry - future trends	0.00% 0	27.27% 3	63.64% 7	0.00% 0	9.09% 1	11	2.91
The Electric Grid of the Future - national and global trends, beneficial electrification, projections for renewables	0.00% 0	0.00% 0	30.00% 3	40.00% 4	30.00% 3	10	4.00
Carbon Capture, Utilization and Sequestration (CCUS) - role in a lower carbon future	0.00% 0	18.18% 2	63.64% 7	9.09% 1	9.09% 1	11	3.09
Decarbonizing Transportation Fuels - EVs, shipping, aviation	0.00% 0	18.18% 2	54.55% 6	27.27% 3	0.00% 0	11	3.09
Emerging Carbon Markets - regulatory compliance and voluntary markets	0.00% 0	50.00% 5	50.00% 5	0.00% 0	0.00% 0	10	2.50
Hydrogen as part of a clean energy economy	0.00% 0	0.00% 0	100.00% 1	0.00% 0	0.00% 0	1	3.00

Discussion – Webinar Topics

Q5 Technology Solutions Relevant to Alaska

	NOT INTERESTED	LOW INTEREST	MEDIUM INTEREST	HIGH INTEREST	CRITICALLY IMPORTANT	TOTAL	WEIGHTED AVERAGE
Solar PV	0.00% 0	20.00% 2	50.00% 5	20.00% 2	10.00% 1	10	3.20
Wind (onshore and offshore potential)	0.00% 0	18.18% 2	36.36% 4	18.18% 2	27.27% 3	11	3.55
Energy storage (short- and long-duration)	0.00% 0	0.00% 0	18.18% 2	27.27% 3	54.55% 6	11	4.36
Small nuclear	0.00% 0	18.18% 2	27.27% 3	18.18% 2	36.36% 4	11	3.73
Hydrogen (including H2 carriers like ammonia and methanol)	0.00% 0	30.00% 3	20.00% 2	30.00% 3	20.00% 2	10	3.40
Tidal energy (Cook Inlet)	11.11% 1	22.22% 2	33.33% 3	22.22% 2	11.11% 1	9	3.00
Natural Gas - instate use options	0.00% 0	9.09% 1	9.09% 1	63.64% 7	18.18% 2	11	3.91
Geothermal (Cook Inlet)	0.00% 0	30.00% 3	30.00% 3	40.00% 4	0.00% 0	10	3.10
Transmission (Roadbelt, MVDC for rural interties, etc)	0.00% 0	0.00% 0	27.27% 3	27.27% 3	45.45% 5	11	4.18
Beneficial electrification (heat pumps, EVs, etc)	0.00% 0	0.00% 0	40.00% 4	40.00% 4	20.00% 2	10	3.80

Discussion – Webinar Topics

Q6 What is your preferred format for the symposium? (check all that apply)

ANSWER CHOICES	RESPONSES	
Weekly, 2 hours in the evening from 6-8pm	9.09%	1
Weekly, 2 hours from 11am-1pm	63.64%	7
Bi-monthly, two half-days 8am-12pm	45.45%	5
Monthly, two full days	9.09%	1
Other (please specify)	0.00%	0
Total Respondents: 11		

Discussion – Webinar Topics

Q9 If we were to conduct a scenarios or visioning workshop, which dates would work for you?

ANSWER CHOICES	RESPONSES	
Friday-Saturday June 16-17th	10.00%	1
Friday-Saturday July 14-15th	40.00%	4
Friday-Saturday July 21-22nd	0.00%	0
Friday-Saturday July 28-29th	0.00%	0
I would like to participate but none of these dates work for me	0.00%	0
I can't spend 2 days on this activity over the summer	10.00%	1
I would prefer 2 full days during the week rather than include a Saturday	40.00%	4
TOTAL		10

Proposed Energy Symposiums

Purpose

ACEP proposing holding a series of topic-specific symposiums each week for AESTF members and the public. These topics identified and prioritized from a survey of AESTF members, will inform members on issues relevant to developing a comprehensive statewide energy plan. ACEP will develop and coordinate the symposium series, including presenter coordination and costs associated with hosting the events.

Logistics

When: Weekly on Thursdays from 11a.m.-1 p.m.
Format: Zoom webinars (recordings available for later)

Symposium presentations will be presented virtually, with AESTF members participating as panelists and members of the public attending as participants. All symposiums will be recorded and posted on the AESTF project website hosted by AEA, along with presentation materials. AEA will ensure all open meeting requirements are met.

Committee of the Whole Presentations

ACEP recommends the following presentations occur as part of the regular AESTF committee of the whole meetings:

- Alaska Energy Statistics: Current Snapshot and 10-Year Trends - ACEP
- Alaska Energy Pathways

Proposed Schedule

- July 13 – Cook Inlet Natural Gas Supply & Development
- July 20 – Energy & Economics
- July 27 – Electrification
- August 3 – Hydropower Development in Alaska
- August 10 – Financing Projects & Funding Opportunities
- August 17 – Transmission & Storage
- August 24 – Current Research Efforts & Updates

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