



Alaska Energy Security  
Task Force Meeting

---

August 29, 2023



# Alaska Energy Security Task Force

August 29, 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.*

1. **Introductions**

2. **Roll Call**

3. **Prior Meeting Minutes**  
August 8, 2023

4. **State Energy Data Subcommittee Presentation:**  
Update from Two-Day Technical Working Group Session

5. **Subcommittee Report Outs**

6. **Round Table Discussion:**  
on preliminary subcommittee action recommendations.

7. **Facilitated Discussion:**  
Energy Symposium Series Discussion

8. **Adjourn**

# Alaska Energy Security Task Force

## Organization

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

# Alaska Energy Security Task Force Proposed Work Schedule



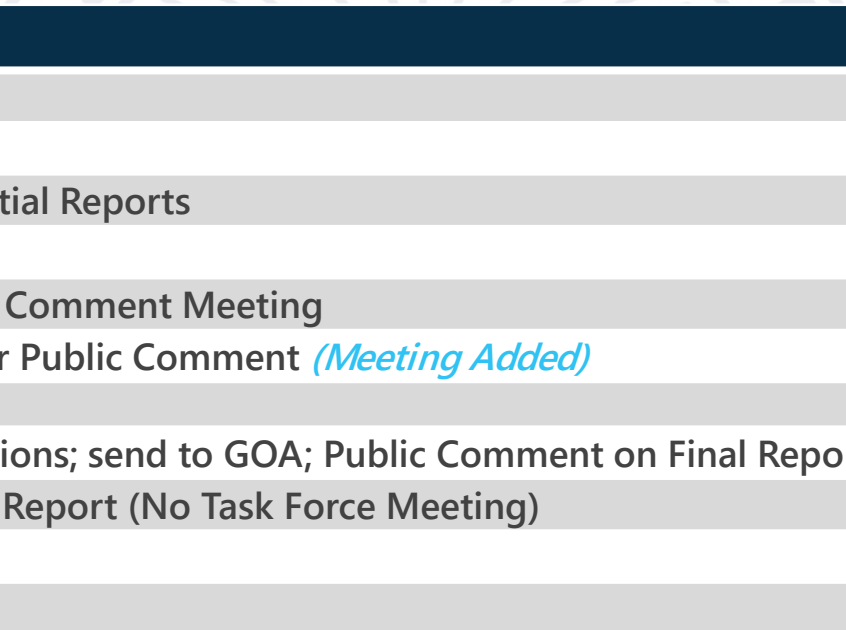
Key Milestones	Completed By
Regional Sub Status Reports	Tuesday, July 18, 2023
Regional Sub Initial Reports	Tuesday, August 8, 2023
Regional Sub Final Reports and I/S/S/R* Data Sub Initial Reports	Tuesday, August 29, 2023
I/S S/R* Data Sub Final Reports; Release S/R** report for 28-Day Public Comment	Tuesday, September 19, 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	<b>Tuesday, October 17, 2023</b>
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

Alaska Energy Security Task Force

# Revised Proposed Work Schedule for Consideration



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 Data Sub Initial Reports	Tuesday, August 29, 2023
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
<i>(Meeting rescheduled to October 10, 2023)</i>	<del>Tuesday, October 17, 2023</del>
Discuss Final Report; Vote on Recommendations; send to GOA; Public Comment on Final Report	Tuesday, October 31, 2023
Public Comment Incorporated in Draft Final Report (No Task Force Meeting)	Tuesday, October 24, 2023
Task Force Receives Final Report	Friday, November 10, 2023
Vote to Approve Final Report	Friday, November 17, 2023

# State Energy Data Subcommittee Presentation

*Presented by Alaska Center for Energy and Power*

## Subcommittee Report Outs

- **Railbelt Transmission, Generation, and Storage:** *(Co-Chairs: Tony Izzo & Jenn Miller)*
- **Rural Generation, Distribution, and Storage:** *(Co-Chairs: Clay Koplín & Andrew Guy)*
- **Coastal Generation, Distribution, and Storage:** *(Co-Chairs: Duff Mitchell, & Robert Venables)*
- **Statutes and Regulations Reform:** *(Co-Chairs: Robert Venables & Karl Hanneman)*
- **Incentives and Subsidies:** *(Co-Chairs: Nils Andreassen & Isaac Vanderburg)*
- **State Energy Data:** *(Erin Whitney for Chair: Dan White)*

**Round Table Discussion:**  
on draft, preliminary subcommittee  
action recommendations.



## Energy Symposium Series :

Discuss lessons learned, review of topics explored, and if there are any actions to be added to the plan based on known gaps or knowledge presented at these symposiums.

*Facilitated by Michael Baker International, Inc.*

## Energy Symposium Series

### Energy Symposium events that have occurred:

- 7/13** - Cook Inlet Natural Gas Supply & Development
- 7/20** - Alaska Rural Energy: Challenges and 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

### Future Upcoming Event Dates:

- 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 [uaf.edu/acep/news/energy-symposium.php](http://uaf.edu/acep/news/energy-symposium.php)



## Logistics:

Weekly on Thursdays  
from 11a.m.-1 p.m.

### Format:

- Zoom webinars: recordings will be made available.

## July 13<sup>th</sup> Energy Symposium: Cook Inlet Natural Gas Supply and Development

*Presentations included:*

- **2022 Cook Inlet Gas Forecast**

*Prepared by: Division of Oil & Gas,  
Alaska Department of Natural Resources*

- **Cook Inlet Gas Supply Project Phase I**

*Prepared by: Regulatory Commission of Alaska*

- **Alaska Liquefied Natural Gas (LNG) Project**

*Prepared by: Alaska Gasline Development Corp*



2022 Cook Inlet Gas Forecast  
July 2023 AESTF Presentation

Presented by John Crowther, Derek Nottingham, Jhonny Meza, and John Burdick



Cook Inlet Gas Supply Project  
Phase I Assessment

Regulatory Commission of Alaska



Alaska LNG Project

Alaska Energy Security Task Force  
July 13, 2023

ALASKA  
GASLINE  
DEVELOPMENT CORP.



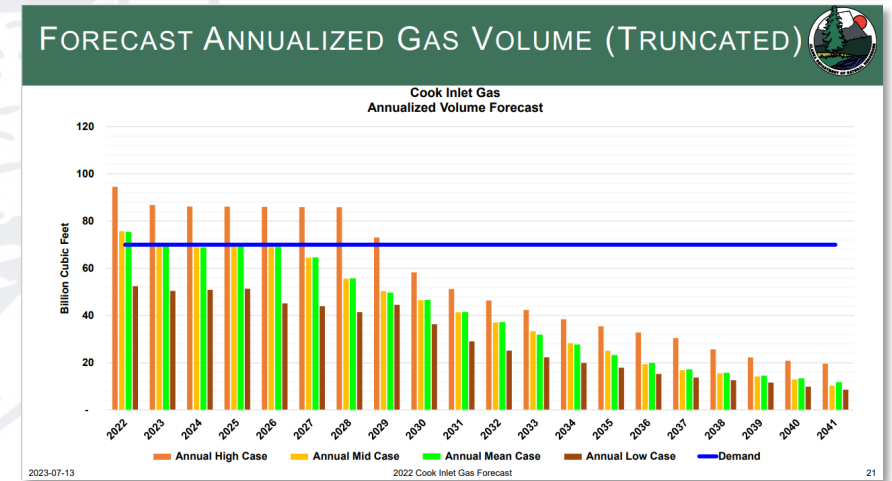
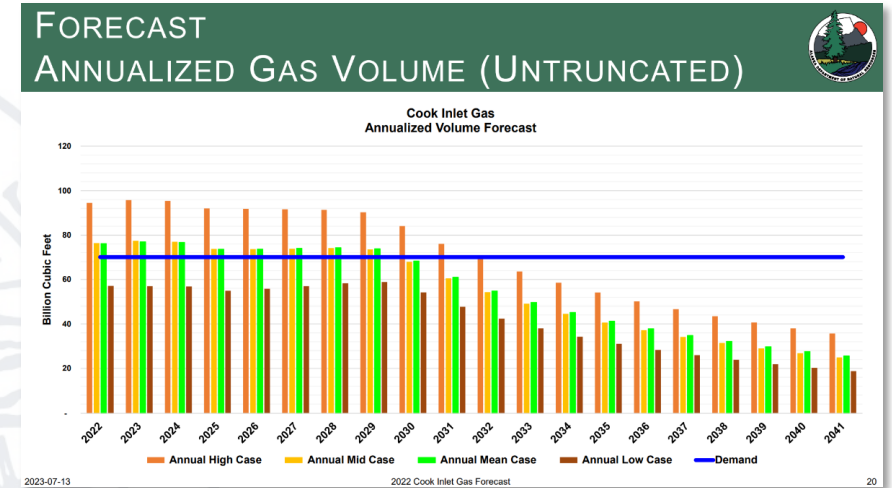
Watch the complete July 13<sup>th</sup> Energy Symposium recording [here](#).

July 13<sup>th</sup> Energy Symposium:

# Cook Inlet Natural Gas Supply and Development

## Key Topics Explored:

- Cook Inlet gas won't meet forecasted demand beyond 2026 (current reserves) or early/mid 2030s (assuming incremental supply development)
- Viable options for Cook Inlet Gas supply must be reduced to single sanction decision by Dec 2023
- Alaska LNG project update



[2022 Cook Inlet Gas Forecast Truncated vs Untruncated](#)

July 13<sup>th</sup> Energy Symposium:

## Cook Inlet Natural Gas Supply and Development

### Discussion Topic



Any transformative actions for the TF to consider related to Natural Gas Supply and Development?

July 20<sup>th</sup> Energy Symposium:

# Alaska Rural Energy: Challenges & Opportunities for Reducing the Cost of Energy

*Presentations included and linked below:*

## ■ [Providing Electricity in Rural Alaska](#)

*Prepared by: Alaska Village Electric Cooperative*

## ■ [How is AVEC Doing?](#)

*Prepared by: Alaska Village Electric Cooperative*

## ■ [Standalone Rural Electric Utilities](#)

*Prepared by: Matanuska Telephone Association*

## ■ [Public Private Partnerships & The Case for Community – IPPs](#)

*Prepared by: Northwest Arctic Borough & NANA Regional*

## ■ [From the Frontier to the Future](#)

*Prepared by: Intelligent Energy Systems, LLC*



Watch the complete July 20<sup>th</sup> Energy Symposium recording [here](#).

For more information on the symposiums visit [uaf.edu/acep/news/energy-symposium.php](https://uaf.edu/acep/news/energy-symposium.php)

July 20<sup>th</sup> Energy Symposium:

# Alaska Rural Energy: Challenges & Opportunities for Reducing the Cost of Energy

## Key Topics Explored:

### Why electricity is expensive in rural Alaska?

- Small populations, small loads, isolated systems, remote, expensive fuel, O&M, limited personnel, etc.

### Strategies discussed to reduce power cost:

- Improve generation efficiency, minimize distribution loss, interconnect villages, add renewables and renewables-based microgrids, capture and sell recovered heat, excess wind energy, promote energy education, and incentivize reduction of diesel use.

### Case Studies and examples from standalone utilities and cooperatives:

- Alaska Village Electric Cooperative; Chaninik Wind Group; NWAB Independent Power Producers (IPPs)/Community Solar; and Nikolski

### Public Private Partnerships – IPPs

- Vision of Northwest Arctic Borough to be 50% reliant on regionally available energy sources (renewable and non-renewable) by 2050.



July 20<sup>th</sup> Energy Symposium:

# Alaska Rural Energy: Challenges and Opportunities for Reducing the Cost of Energy

## Discussion Topic



What actions are necessary to advance alternative energy sources for rural communities (e.g. micro-nuclear, renewables, etc)?



July 20<sup>th</sup> Energy Symposium:

# Alaska Rural Energy: Challenges and Opportunities for Reducing the Cost of Energy

## Discussion Topic



What are TF members initial thoughts on the current PCE program?

July 27<sup>th</sup> Energy Symposium:  
Global Trends and Grid of the Future

*Presentations included:*

- [Energy Transformation – It can Happen Faster than you Think!](#)  
[South Australia as a Case Study,](#)

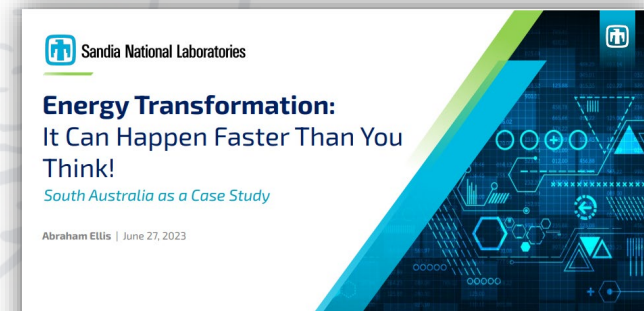
*Prepared by: Sandia National Laboratories*

- [Insights into the Icelandic Energy Market](#)

*Prepared by: Alaska Center for Energy and Power*

- [Opportunities for Electric Load Growth in Alaska](#)

*Prepared by: Sandia National Laboratories*



Watch the complete July 27<sup>th</sup> Energy Symposium recording [here](#).

For more information on the symposiums visit [uaf.edu/acep/news/energy-symposium.php](https://uaf.edu/acep/news/energy-symposium.php)

July 27<sup>th</sup> Energy Symposium:

## Global Trends and Grid of the Future

### Key Topics Explored:

- Heating space and water is the biggest energy user in Alaska
- Cold-climate air source heat pumps (ccASHP): problems and solutions with widespread heat pump adoption and solutions
  - Potential Solutions include: dual fuel heat pumps, better building envelope, geothermal heat pumps

### **Case Studies:**

- Proliferation of diverse energy in South Australia – are there lessons to be learned?
- Overview of Iceland's energy market and how it compares to Alaska

July 27<sup>th</sup> Energy Symposium:

## Global Trends and Grid of the Future

Discussion Topic



Any topics from this symposium the TF members would like to discuss?

August 3<sup>rd</sup> Energy Symposium:

## Railbelt Hydropower Development & Financing: Lessons Learned from the Past, Opportunities for the Future

*Presentations included and linked below:*

- **[Small Hydropower in Southcentral Alaska](#)**

*Prepared by: Polarconsult Alaksa, Inc.*

- **[Bradley Lake Operations and Governance](#)**

*Prepared by: Bradley Lake Project Management Committee*

- **[Railbelt Hydropower – Current & Upcoming Projects](#)**

*Prepared by: Alaska Energy Authority*

- **[Susitna-Watana Hydro](#)**

*Prepared by: Susitna-Watana Hydro*



Watch the complete August 3<sup>rd</sup> Energy Symposium recording **[here](#)**.

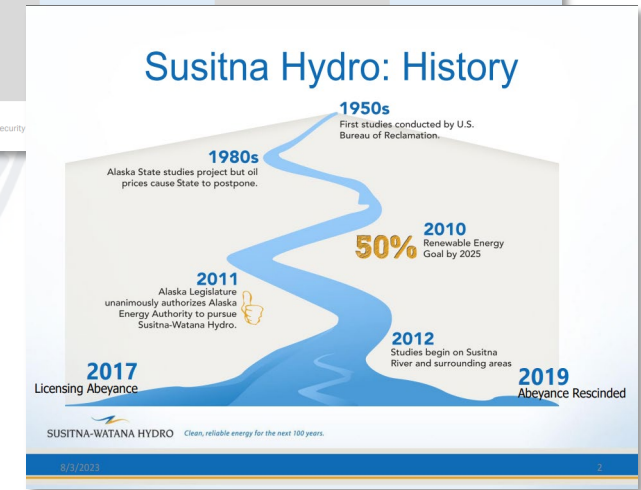
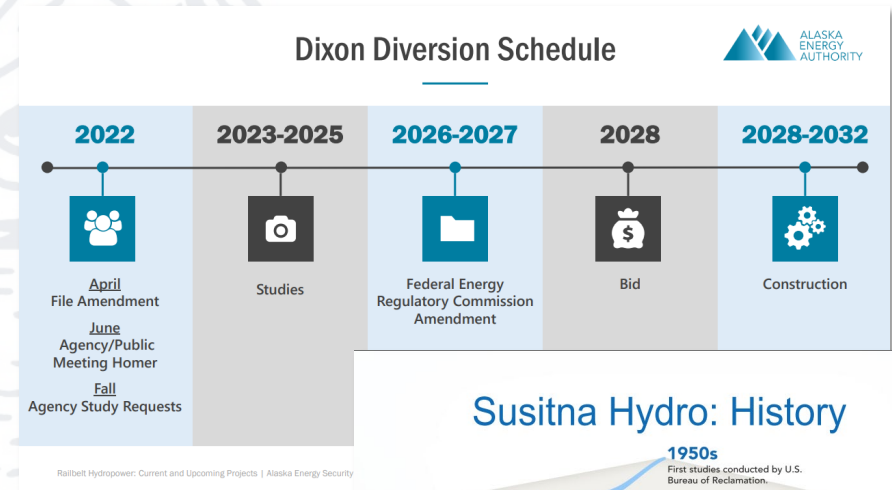
For more information on the symposiums visit [uaf.edu/acep/news/energy-symposium.php](https://uaf.edu/acep/news/energy-symposium.php)

August 3<sup>rd</sup> Energy Symposium:

# Railbelt Hydropower Development & Financing: Lessons Learned from the Past, Opportunities for the Future

## Key Topics Explored:

- Dixon Diversion – would be largest renewable energy project since Bradley Lake
- Susitna-Watana Hydro: ~50% of Railbelt’s energy demand
- Southcentral small hydro: 100MW capacity is achievable
- Bradley Lake Operations and Governance



August 3<sup>rd</sup> Energy Symposium:

## Railbelt Hydropower Development & Financing: Lessons Learned from the Past, Opportunities for the Future

### Discussion Topic



*Any TF recommendations to move Railbelt Hydropower projects forward?*

August 17th Energy Symposium:  
**Alaska Energy Statistics & Economics**

*Presentations included and linked below:*

■ **[Alaska Energy Data: The Good, the Bad, the Missing](#)**

*Prepared by: Alaska Center for Energy and Power*

■ **[Alaska Comprehensive Economic Development Strategy \(CEDS\) Overview](#)**

*Prepared by: UA Center for Economic Development, Alaska DCCED*

■ **[CEDS Energy – Specific Goals & Objectives](#)**

*Prepared by: Department of Commerce, Community, and Economic Development*



Watch the complete August 17th Energy Symposium recording **[here](#)**.

For more information on the symposiums visit [uaf.edu/acep/news/energy-symposium.php](https://uaf.edu/acep/news/energy-symposium.php)



August 17th Energy Symposium:  
**Alaska Energy Statistics & Economics**

**Key Topics Explored:**

- Need for central energy data repository with regular maintenance and updates
- Unreliable/uncleaned data is worse than no data
- There is almost zero measured fuel oil consumption data
- Impact of EVs and Heat Pumps

**Alaska Energy Data:  
*The Good, the Bad, the Missing***

ACEP Energy Symposium  
August 17, 2023

prepared by Steve Colt, Research Professor  
sgcolt@alaska.edu

Category	Fuel Oil	Gasoline	Propane	Total	Electricity	Total	Percent of Demand
Alaska Energy Region	1,100	1,100	1,100	3,300	1,100	4,400	100%
Electricity	0	0	0	0	1,100	1,100	25%
Gasoline	0	1,100	0	1,100	0	1,100	25%
Propane	0	0	1,100	1,100	0	1,100	25%
Fuel Oil	1,100	0	0	1,100	0	1,100	25%
Total	1,100	1,100	1,100	3,300	1,100	4,400	100%

Slide from the [CEDS presentation](#).

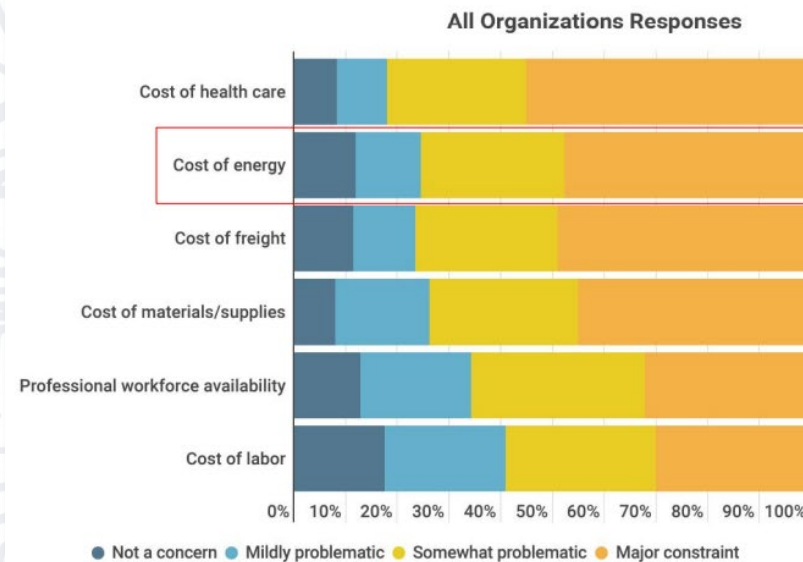
## August 17th Energy Symposium: Alaska Energy Statistics & Economics

### Key Topics Explored:

*Alaska Comprehensive Economic Development Strategy (CEDS)* includes actions and objectives related to the following:

- Sustainable Energy
- Affordable Energy
- Alternative Energy Workforce
- Resilience Capacity
- Resilient Infrastructure
- Oil & Gas
- Alternative Energy
- Timber

### What Barriers do Respondents See for their Organizations?



All types of organizations found the cost of doing business (healthcare, energy, freight, materials/supplies, and labor) to be a constraint for their organization.

Slide from the [CEDS presentation](#).

August 17th Energy Symposium:

## Alaska Energy Statistics & Economics

### Discussion Topic



TF comments on the relationship of the Energy Security Masterplan with CEDS Economic Development Strategy?

August 24th Energy Symposium:

## Transmission & Storage: Building a More Resilient Grid

*Presentations included and linked below:*

- **[Energy Storage Options and Selection Considerations](#)**

*Prepared by: Sandia National Laboratories*

- **[Beneficial and Equitable Electrification](#)**

*Prepared by: Alaska Center for Energy and Power*

- **[Tidal Power in Alaska](#)**

*Prepared by: Alaska Center for Energy and Power*



Watch the complete August 24th Energy Symposium recording [here](#).

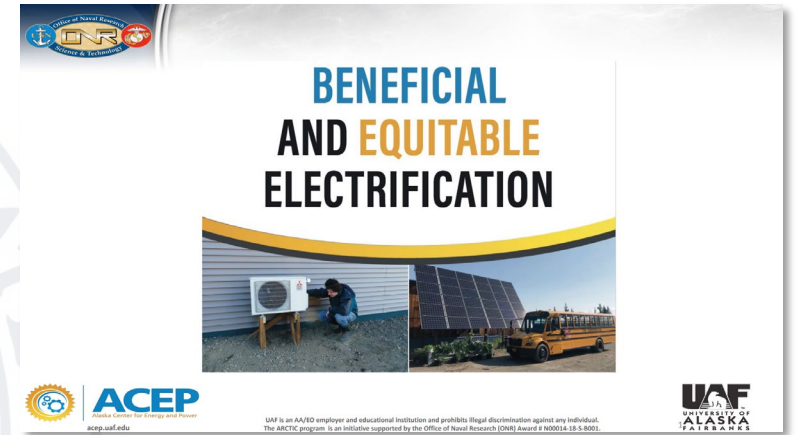
For more information on the symposiums visit [uaf.edu/acep/news/energy-symposium.php](https://uaf.edu/acep/news/energy-symposium.php)

August 24th Energy Symposium:

# Transmission & Storage: Building a More Resilient Grid

## Key Topics Explored:

- **Energy storage system (ESS) selection is scenario specific, key scenario considerations include:**
  - Power purchase agreement;
  - Grid demand;
  - Available energy for charging;
  - System Round Trip Efficiency; % demand met requirement; and
  - Levelized Cost of Energy Storage requirement/ROI requirement
- **Beneficial and Equitable Electrification**
  - Harnessing local, sustainable, and cost-effective energy resources to electrify energy loads such as transportation and heating.
- **Tidal Power in Alaska**
  - Policy & Permitting Recommendations:
    - Identify and Fill Regulatory Data Gaps
    - Support Adaptive Management Approaches
    - R&D Investment



August 24th Energy Symposium:

## Transmission & Storage: Building a More Resilient Grid

### Discussion Topic



TF recommendations for leveraging existing and future transmission and storage technology?

# Next Steps

- **Confirm/Schedule next meeting with your subcommittee(s):**
  - Railbelt Transmission, Generation, and Storage: *August 30th, 1:00 pm*
  - Rural Generation, Distribution, and Storage: *September 7th, 1:00 pm*
  - Coastal Generation, Distribution, and Storage: *September 8th, 11:00 am*
  - Statutes and Regulations Reform: *September 5th, 10:30 am*
  - Incentives and Subsidies: *September 11th, 8:00 am*
  - State Energy Data: *TBD*
- **Next Energy Symposium Presentation**
  - Thursday, August 31<sup>st</sup>, 2023
- **Next AESTF Meeting Date:**  
Tuesday, September 19<sup>th</sup>, 2023

## Email and Website



### Email

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

[info@akenergysecuritytaskforce.com](mailto: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>