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February  
2024

# AML Energy Activities

- Energy Hub
- Arctic Energy Ambassadors
- CPRG
- EnergyShed
- EECBG

Southeast  
Conference  
Mid-Session  
Summit

Erin Reinders, AML's  
Director of Infrastructure  
Development



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Alaska EnergyShed – Background

- 200+ villages pay more than 10x the national average to heat their homes.
- Many households spend over 50% of their income on heat.
- Communities powered with imported fuels despite an abundance of local and affordable renewable resources.
- Local renewable energy projects often are of insufficient size to attract investment.
- Much of Alaska was electrified almost a half century ago.
- The majority of our rural energy infrastructure is now at the end or beyond its useful life, leading to frequent power outages and increased costs
- Power generation stations have somewhere upward of \$300M in deferred maintenance, while tank farms have around \$800M.
- A radically different approach to modernize the infrastructure and lower energy costs in rural Alaska is needed.

U.S. DEPARTMENT OF  
**ENERGY**  
Office of  
ENERGY EFFICIENCY &  
RENEWABLE ENERGY



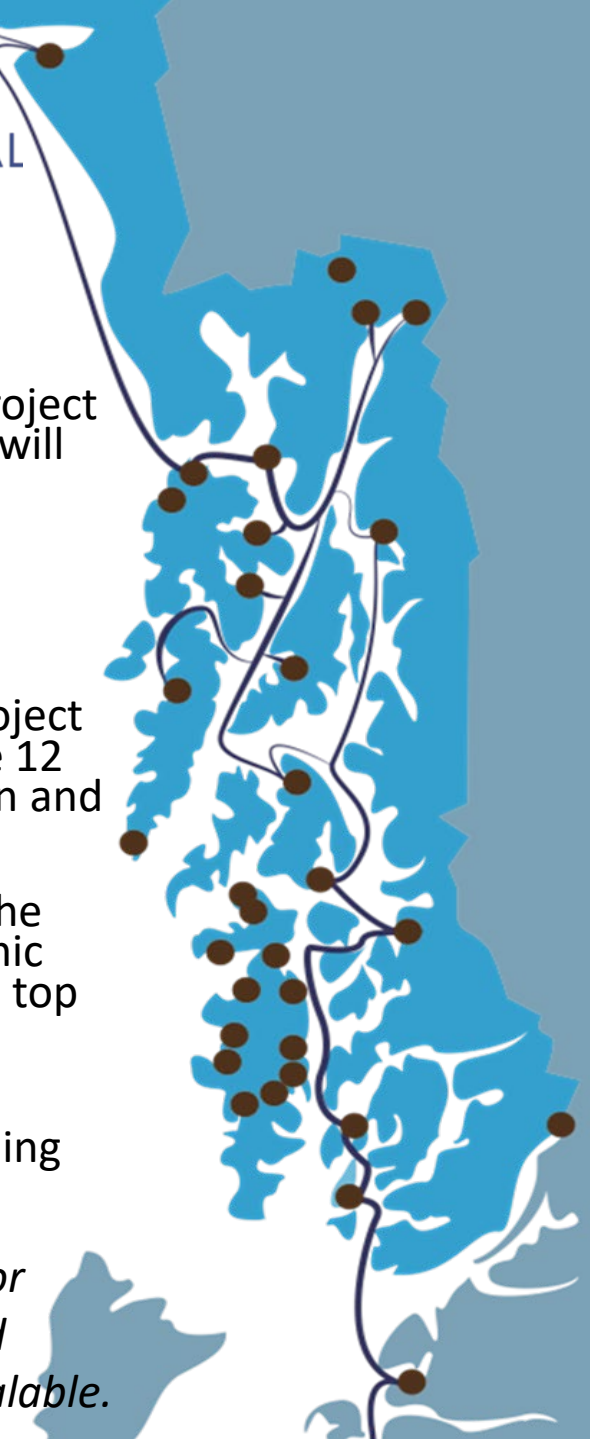
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Alaska EnergyShed – Tech Stack



1. **Engage with 12 communities** – 6 in Northwest and 6 in Southeast Alaska.
2. **Collect relevant data** -Inventory of existing local power infrastructure by project personnel on the ground using a combination of forms, drones, and LiDAR will be conducted in the participating communities.
3. **Deploy virtual computer tools** – Use accessible digital tools to share data, collected in the participating communities, and facilitate discussion and evaluation.
4. **Identify energy projects** - Expanding on the work already performed by project team, partners, and other key Alaskan organizations, energy projects in the 12 participating communities will be identified and consolidated for evaluation and eventual selection of the best value projects.
5. **Prioritize and design projects** - Based on community input and feedback, the National Renewable Energy Laboratory (NREL) will perform techno-economic analysis of a select number of projects to evaluate and prioritize them. The top percentile of projects will be selected for detailed design.
6. **Secure project funding** - A minimum of three projects will be selected, combined, and matched with committed public and private funding, including any tax credits, subsidies, and other funds.

*Guiding Principles: Ensure that the project makes the greatest impact possible for those who most require support, provides an equitable, clean energy future, and assures environmental justice. Demonstrate a method that is repeatable and scalable.*



## Alaska Energy Hub

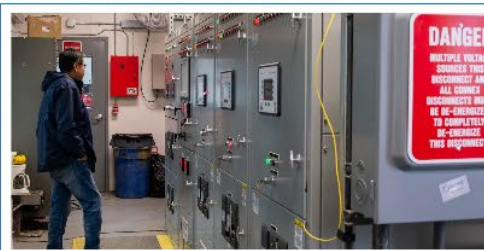
The Alaska Energy Hub is a one-stop resource to connect energy projects and agencies providing funding and Technical Assistance. You can find various maps here, with additional resources available soon. The Alaska Energy Hub is a project of the Alaska Municipal League with funding from the U.S. Department of Energy's Energizing Rural Communities Prize.



### Submit a Project

We encourage project teams to complete the Project Intake Form - it is a first step to find Technical Assistance for your project and your response helps inform decision makers who might be able to offer resources.

[Project Intake Survey](#)



### Resources

Find information on technical assistance and funding opportunities here.

[Resources](#)



### Ambassadors

Learn more about the Arctic Energy Ambassadors program.

[Ambassadors](#)



### Project Map

See a map of submitted energy projects from around Alaska.

[Project Map](#)

### Federal Resources

[Arctic Energy Office](#)

[Denali Commission](#)

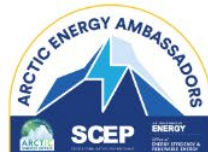
### State Resources

[Alaska Energy Authority](#)

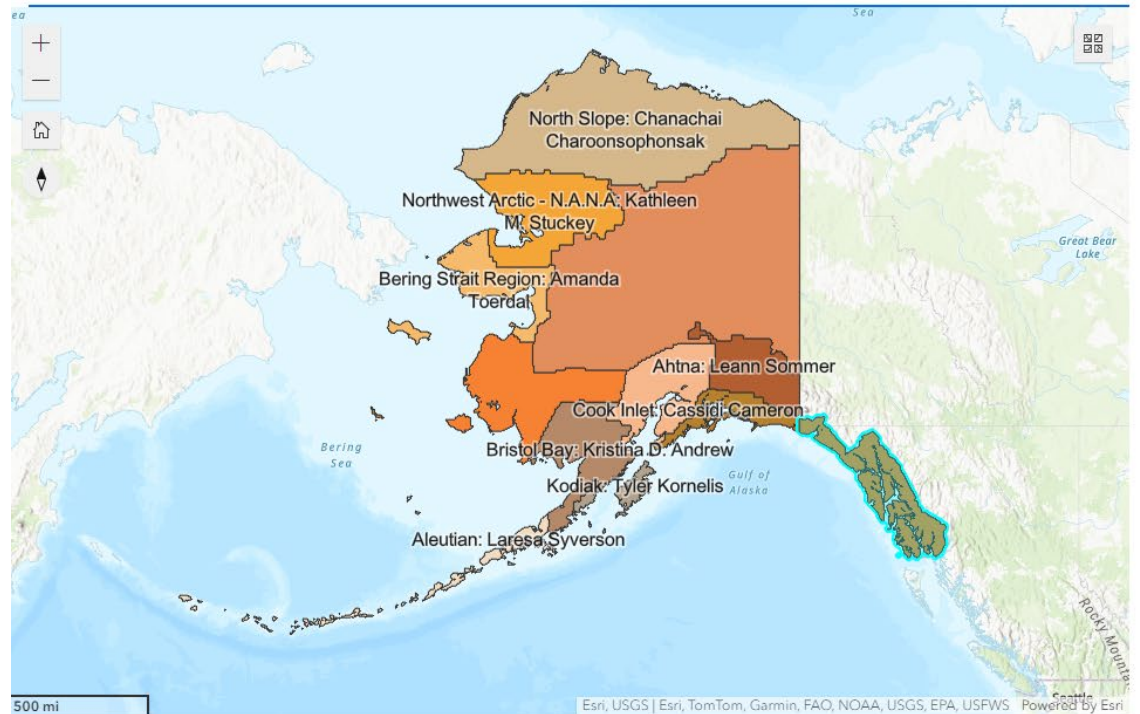
[Alaska Federal Funding](#)

### Contact Us

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Meet the Ambassadors



About the Program



**Robert Venables**  
Sealaska

Email: [robert@seconference.org](mailto:robert@seconference.org)  
Phone:

Often referred to as "Mr. Southeast", Robert has lived and worked in Southeast Alaska since arriving in Haines in 1984. Robert managed the local branch for a regional wholesale distributor before going on to work with the local municipality, first as the Economic Development Director and then as the Haines Borough Manager. He served for seven years on the Haines Chamber of Commerce, with 2 terms as the Chamber's president, and served on the Alaska State Chamber Board of Directors for two terms.

Robert's involvement with Southeast Conference began in 1997 through the Haines Chamber of Commerce. He joined the SEC Board of Directors in 2001 and served as Board President in 2005. Robert stepped down from the board in 2008 to take the position of Energy Coordinator. In this new role, Robert helped facilitate the first regional energy plan (SE IRP), was a member of the Alaska House Energy Committee Stakeholder's Group and worked with utilities and communities to develop key infrastructure of hydros and interties throughout the region.

Additionally, he has worked on planning and project development for multiple industry sectors in the region including hydro energy, transportation

- Goal 1: Articulate community and regional **energy needs** through a cohort of local champions.
- Goal 2: **Connect** stakeholders and promote professional and regional capacity development through ongoing DOE training and engagement.
- Goal 3: Provide regional **technical assistance** to advance project development.
- Goal 4: **Develop** regional or statewide projects, with solutions to energy issues that could be **replicated** throughout the Arctic.
- Goal 5: **Encourage regional projects** championed by Ambassadors to be vetted through an online energy **project portal** created to better connect stakeholders to funding opportunities (including key application deadlines) and technical resources.



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Sustainable Energy Planning

## Planning

The Climate Pollution Reduction Grant (CPRG) allocated **\$250 million** in funding for planning by states and tribes to identify measures to reduce greenhouse gas emissions while providing other community and economic benefits including:

- More affordable energy
- Reduced air pollutants, noise pollution
- High labor standards and workforce development
- Improved quality of life



**1. Priority Climate Action Plan** - due March 1, 2024 (states and Metropolitan Statistical Areas (MSAs)) and due April 1, 2024 (tribes, tribal consortia, and territories)

- ***At the state level, AML and DEC are working towards a Priority Sustainable Energy Action Plan (PSEAP) that includes measures across the state***
- ***Including some general measures – retrofits, renewable generation***

**2. Comprehensive Climate Action Plan** – due two years after planning grant award, or approximately mid-2025 (states and MSAs) and due at the close of the grant period (tribes, tribal consortia, and territories).

- ***At the state level, AML and DEC will working towards a Comprehensive Sustainable Energy Action Plan (CSEAP) from August 2024 and May 2025***

## Implementation

CPRG is offering **\$4.6 billion** in implementation grants for key infrastructure, with a tribal set-aside and no required match.

- Available to state agencies, local governments, and tribes to implement measures named in Priority Plan.
- General competition deadline is **April 1, 2024** and Tribal and Territory completion competition is **May 1, 2024.**



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Energy Efficiency and Conservation Block Grant

## EECBG

One of 12 other awardees in the nation to support the implementation of energy improvements.

\$900,000 going to Nenana as lead applicant.

Will help 8 communities!

AML will manage the project and facilitate technical expertise from additional partners.

**Energy Audits for public buildings and support improvements.**





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Thank you!

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