



SOUTHEAST
CONFERENCE

ALASKA ENERGY EFFICIENCY PARTNERSHIP

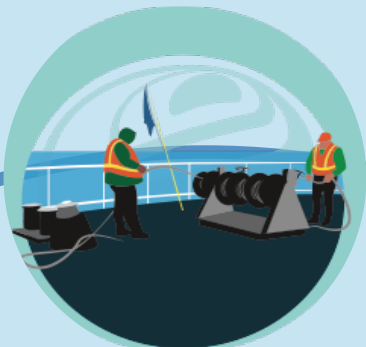
Southeast Conference



ABOUT SOUTHEAST CONFERENCE

- Southeast Conference was incorporated in 1958, primarily to advocate for the creation of the Alaska Marine Highway System. Community leaders from Metlakatla to Yakutat held their first meeting in Petersburg.
- After that success, we stayed together to continue to advocate for issues that are critical to the southeast region as a whole.
- Looks for consensus for the betterment of the region.
- Members from nearly every community, chambers of commerce, and economic development organizations in the region.
- Conduct economic planning through CEDS process and implement CEDS, providing technical assistance and project development support.
- Southeast Conference is the federally designated Regional Economic Development District and the State-designated Alaska Regional Development Organization.





Transportation



Maritime



Visitors



Timber



Energy



Mining



Seafood

***Promoting
strong economies, healthy
communities, and a
quality environment in
Southeast Alaska.***

Focus on clean energy

- Save rate-payers money
- Opportunity to deploy renewables (reducing imported fossil fuels and carbon emissions)
- Innovative ways to electrify energy uses currently fueled by heating oil, propane, and natural gas.
- Efficiency first: This remains a priority on both the supply side and consumer, saving consumers money and better matching investments in energy infrastructure.
- Beneficial electrification: space conditioning (~2/3 energy costs in rural AK), hot water, and transportation.
- Some of the new electrical load does not need to be on the grid at the same time and can provide the utility with time-of-day flexibility to balance loads and utilize less expensive and available energy.



SE Community Economic Development Strategy (CEDS) Energy Goals

- Promote beneficial electrification
- Continue to support PCE for rural communities
- Support opportunities for policy and regulatory development to meet community energy needs and priorities.
- Promote energy infrastructure development with a focus on reducing energy costs and increasing deployment of renewables.
- Support regional waste-to-energy initiatives
- Support Southeast Alaska's biomass initiatives
- Support consumer education on heat pumps



CPRG Heat Pump Program – Ketchikan to Kodiak

Collaboration between Southeast Conference and Alaska Heat Smart with support from the Alaska Municipal League (AML)

- \$38.9 million
- 6,100 heat pump installations
- Tiered incentives \$4,000 to \$8,500 per household



Renewable Energy Development Assistance (REDA)

USDA funded


Eligible applicants are small businesses

Energy assessments and technical assistance

Online assessment tool for renewable energy


Assessments and audits can be used to apply for USDA REAP grant to cover portion of energy upgrades

REopt: Renewable Energy Integration & Optimization



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» REopt Web Tool



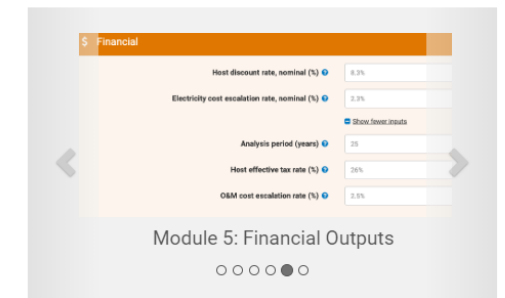
Help Manual API Open Source Code User Forum Log In/Register

Attention! The REopt Web Tool and API are now using open-source optimization solvers; you may experience longer solve times and timeout errors, especially for evaluations with net metering, resilience, and/or 3+ technologies. For additional information, including suggestions on how to mitigate these issues, please read our [full announcement](#).

The REopt[®] web tool allows users to:

- Evaluate the economic viability of distributed PV, wind, battery storage, combined heat and power (CHP), geothermal heat pumps (GHP), and thermal energy storage.
- Identify system sizes and dispatch strategies to minimize energy costs.
- Estimate how long a system can sustain critical load during a grid outage.

Watch REopt Tutorial Videos



Biomass

Regional Biomass Strategy

Purpose-Built – Right-Sized

Community Scale – Meet Local Needs

Research and Development – Model for Rural Community Adaptation Statewide

Local Jobs, Local Energy

Decreased Dependence on Fossil Fuels

Stable Pellet Supply in Southern SE Alaska – Helping to Stabilize Timber Industry



Biomass systems

- Technical assistance, feasibility, trouble shooting issues
- Community education and engagement
- Operator training

Forest products initiative

- POW integrated forest products campus
- Harvesting young growth, supporting small saw mills and sustainable harvest practices
- Pellet mill demonstration on Gravina Island

Transportation electrification and carbon reduction

- Volkswagen settlement funded EV charging infrastructure
- EV community engagement and planning
- Alaska Marine Highway System (AMHS) carbon reduction
- Shore power
- Electric ferries
- Alternative fuels



THANK YOU!

Register Today!

SOUTHEAST CONFERENCE

Annual Meeting

September 24-26, 2024

Ketchikan, Alaska



SOUTHEAST
CONFERENCE

Cady Lister

cady@seconference.org 907.602.2828

Alaska Energy Efficiency Partnership Webpage

- If you haven't already, sign up for our emailing list!
 - [Alaska Energy Authority > What We Do > Renewable Energy and Energy Efficiency Programs > Energy Efficiency & Conservation > Alaska Energy Efficiency Partnership \(akenergyauthority.org\)](https://www.akenergyauthority.org/what-we-do/renewable-energy-and-energy-efficiency-programs/energy-efficiency-conservation/alaska-energy-efficiency-partnership)

Energy Efficiency List Server

- Visit list.state.ak.us, scroll down until you find the listserve "aea.encyency," click on it, and follow the subscription instructions.

FY25 State Energy Program (SEP)

- Awarded \$480,580.00 this month.

Energy Auditor Training (EAT) Program Grant – Concept Paper

- Submitted in April but were discouraged from applying.

Home Energy Rebates (HER) Programs – Early Admin funds

- Awarded in June.
 - \$934,127.96 in early admin funds for HER – Efficiency Rebates
 - \$858,468.76 will be passed through to AHFC.
 - \$928,655.94 in early admin funds for HER – Electrification Rebates
 - \$852,996.74 will be passed through to AHFC.

Training for Residential Energy Contractors (TREC)

- Application submitted.

Training for Residential Energy Contractors (TREC) – Competitive

- Letter of Intent submitted. Applications are due January 15, 2025.

AEA Update (continued)



Energy Efficiency and Conservation Block Grant (EECBG) & SEP BIL

- RE-VEEP (round one)
 - Three applications selected for sub-awards
- RE-VEEP (round two)
 - RFA issued March 2024
 - The application deadline is May 28, 2024
 - Six applications selected.

Energy Efficiency Revolving Loan Fund application submitted to DOE

- Awarded \$4,782,480 in June.

Solar for All Grant

- AEA and its partner, AHFC, have been selected for a \$62.45M award from the Environmental Protection Agency's (EPA) Solar for All program.

Clean Energy Innovator Fellowship (CEIF) Program

- AEA was selected as a host institution. We have a Clean Energy Fellow starting on September 4, 2024.

Renewable Energy - Village Energy Efficiency Program (RE –VEEP)



AEA will sub-grant funds to eligible local governments to finance building-scale renewable energy, energy efficiency, and conservation projects in public buildings and facilities statewide with a focus on rural Alaska.

Round One Sub-Grant Awardees

- City of Chignik, City of Unalaska, City of Whittier
- ~\$345,000 awarded!

Round Two Sub-Grant Awardees

- Lake & Peninsula Borough, City of Nenana (x2), City of Seldovia, City of Kachemak, City of Unalaska
- ~\$1.25 awarded!
- No match is required.
- 144 city and/or borough governments were eligible for funding.

Education, Building Codes, Energy Efficiency and Homeowner Assistance:



New Home Construction Rebate



Alaska Legislature provided \$7 million in funding during the 2024 session

Program is to incentivize energy-efficient new construction

Currently out for public comment for changes to AHFC regulations regarding administering home rebate programs.



Solar For All



Residential rooftop and multi-family focus

Federal focus on disadvantaged communities and low-income Americans

Awarded at \$62,450,000

Currently in Negotiation with EPA on both State and Tribal Awards

Program to launch in 2025

\$17 million	Single-Family Residential rooftop solar to AHFC
\$7.5 million	Single-Family Residential rooftop solar from TCC
\$6.25 million	Multi-family rooftop solar
\$10 million	Training, Outreach & Administration
\$4.5 million	Financing opportunity

State-Based Home Energy Efficiency Contractor Training Grants



TREC I (Formula)

Funding Available to Alaska: \$1,296,870

- Partners
 - RuralCap
 - AML
 - AVTEC

TREC II (Competitive)

Application date moved to 1/15/2025

- Partners
 - SE Conference
 - AVTEC
 - CCHRC
 - Alaska Works



Building & Energy Codes



DOE Resilient Codes Grant

- 7/1/2024 – 6/30/2027
- Partners:
 - Alaska Municipal League (AML)
 - Alaska Association of Housing Authorities (AAHA)
 - Alaska State Home Builders Association (ASHBA)

Midwest Energy Efficiency Alliance (MEEA) RECI II Grant

- Submitted to DOE for approval

AHFC Building Advisory Committee

- Committee membership being approved



Federal Energy Rebates



AHFC preparing \$75 million application for U.S. Department of Energy in 2024.

- Home Efficiency Rebate Program
- Home Electrification and Appliance Rebate Program

Home Efficiency Rebate Program



Energy Savings	Rebate Amounts			
	Single Family	Single Family LMI	Multifamily	Multifamily LMI
20-35% modeled savings	Lesser of \$2,000 or 50% of project costs	Lesser of \$4,000 or 80% of project costs	\$2,000 per dwelling unit, maximum \$200,000 per building	Lesser of \$4,000 per dwelling unit or 80% of project costs
35% or more modeled savings	Lesser of \$4,000 or 50% of project costs	Lesser of \$8,000 or 80% of project costs	\$4,000 per dwelling unit, maximum \$400,000 per building	Lesser of \$8,000 per dwelling unit or 80% of project costs

- Reduction in home energy use incentivized with rebates for whole-home retrofits.
- Homeowners must begin with an energy assessment to identify options for a improvements and model savings.
- Lower Median Income (LMI) = 80% of Area Median Income as determined by HUD.

Home Electrification and Appliance Rebates



	Up to 80% AMI	81-150% AMI
Electric Load Service Center upgrades/Breaker Box	\$4,000	\$2,000
Electric Stove, Cooktop, Range and/or Oven	\$840	\$420
Electric Wiring	\$2,500	\$1,750
Heat Pump Clothes Dryers	\$840	\$420
Heat Pump Heating/Cooling	\$8,000	\$4,000
Heat Pump Water Heaters	\$1,750	\$875
Weatherization (Insulation, Air Sealing, Ventilation)	\$1,600	\$800

- \$14,000 maximum benefit per household.
- Households above 150% of AMI as determined by HUD are not eligible.
- Intended to be provided at the “Point-of-Sale”, amount to be deducted upfront.



Renewable Energy
Alaska Project

Updates from:
ANEEEE
Energy Education
Energy Transition Initiative Partnership Project

Alaska Energy Efficiency Working Group
July 23, 2024

Organizational Updates

We're moving!

As of Aug. 1, our new office will be at The Boardroom's new location on the 7th floor of the Denali Tower at 2550 Denali St.

And we're hiring!

- Operations Manager: Application closed and scheduling interviews
- Part-Time Energy Educator: application closes July 29:
<https://alaskarenewableenergy.org/reap-is-hiring-energy-educator/>

Alaska Network for Energy Education & Employment (ANEEEE) Updates



AVEC CEO Bill Stamm speaks to KCA students about electric utility careers

- Wrapped up *Powering Your Future* energy careers class for 17 juniors at Kusilvak Career Academy
- People in Power training coordination program held a successful utility clerk training this spring, and is continuing to elevate and compensate regional expertise
- Next Alaska Energy Training Group meeting on Sep. 17 at 11 a.m.

Energy Efficiency Education Updates



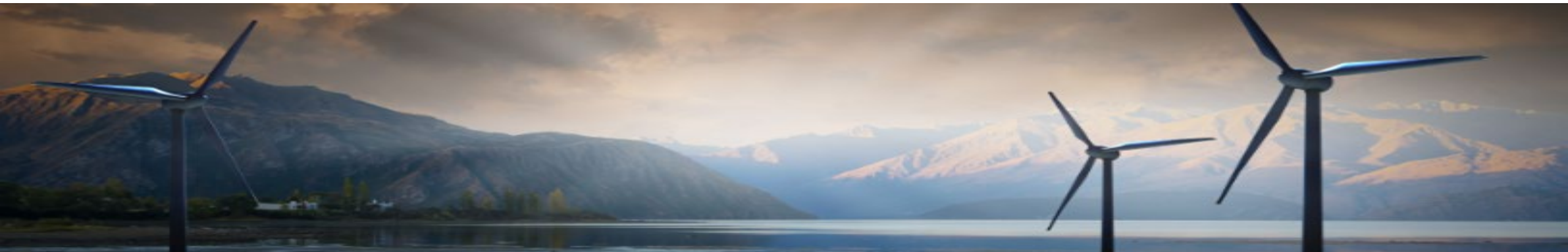
Students in Nature of Energy Camp at
AEL&P in Juneau

- REcharge Academy in Fbx trained 34 teachers from around the US, including 6 from AK
- Three week-long summer camps
- Power Pledge Challenge starting next month. Confirmed partners: AEA, MEA, Chugach, GVEA, AVEC, Copper Valley Electric. Waiting for three more partners to confirm or decline
- 5 online adult ed modules available to take for free: <http://qr.ahfc.info/akes>

ETIPP Update

Energy Transitions Initiative Partnership Project

- 10 applications received for Cohort 4 within Alaska
- Review and selection by NREL in late August
- Announcements will be made in mid-September
 - Track 1: strategic energy planning (2-3 communities)
 - Track 2: technical assistance (2-3 communities)
- On-boarding and kick-off in late September



REAP IRA | FY 2023/2024

Available Funding

- ❑ \$1.055 billion Nationwide - \$1.25 Million per quarter for Alaska
 - ❑ This has historically been under utilized
- ❑ Program intent is to help rural businesses and Agricultural producers lower operating costs associated with energy use
 - ❑ **Grants** can cover up to 50% of total eligible project costs (from 25% pre-IRA)
 - ❑ \$1M cap for Renewable Energy System projects
 - ❑ \$500k cap for Energy Efficiency Improvement projects
 - ❑ **Loan Guarantees** on loans can cover up to 75% of total eligible project costs
 - ❑ **Combined** grant and loan guarantee funding can cover up to 75% of total eligible project costs
- ❑ **Deadlines** – the final deadline under the current Notice of Solicitation is September 30th; after that another Federal Register posting will announce future funding opportunities



Rural Development
U.S. DEPARTMENT OF AGRICULTURE

Dan Smith
State Energy Coordinator
(907) 761-7779
daniel.smith5@usda.gov

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