



Integrated Lighting Campaign

April 23, 2024

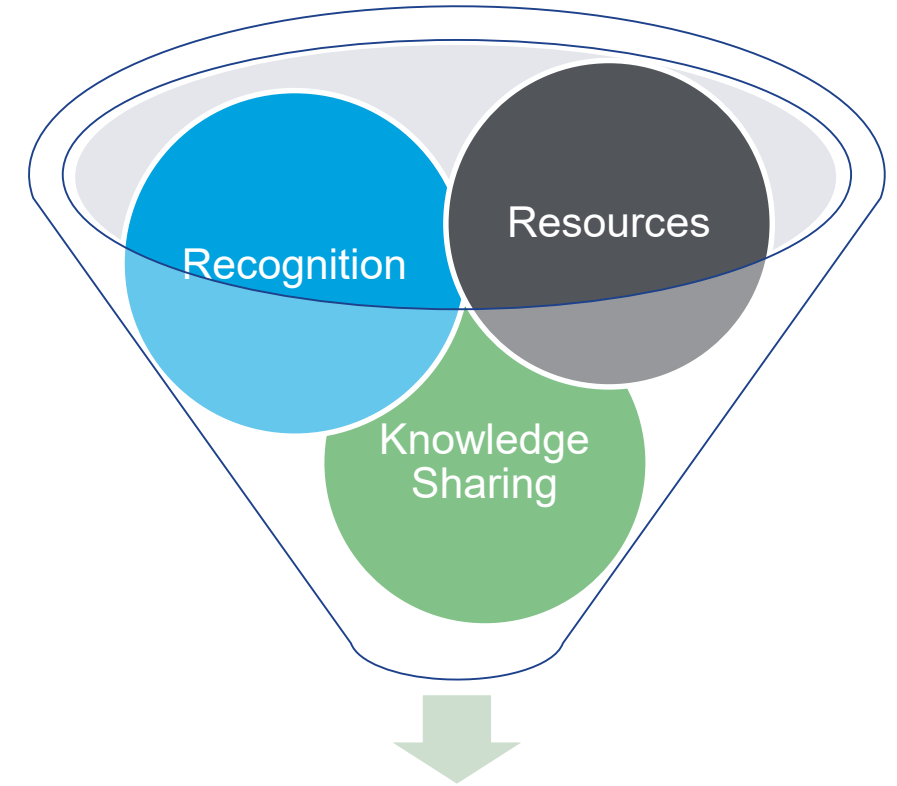
Presented to: Alaska Energy Authority



What is a technology campaign?

Technology Campaign: a collaborative platform to speed technology adoption

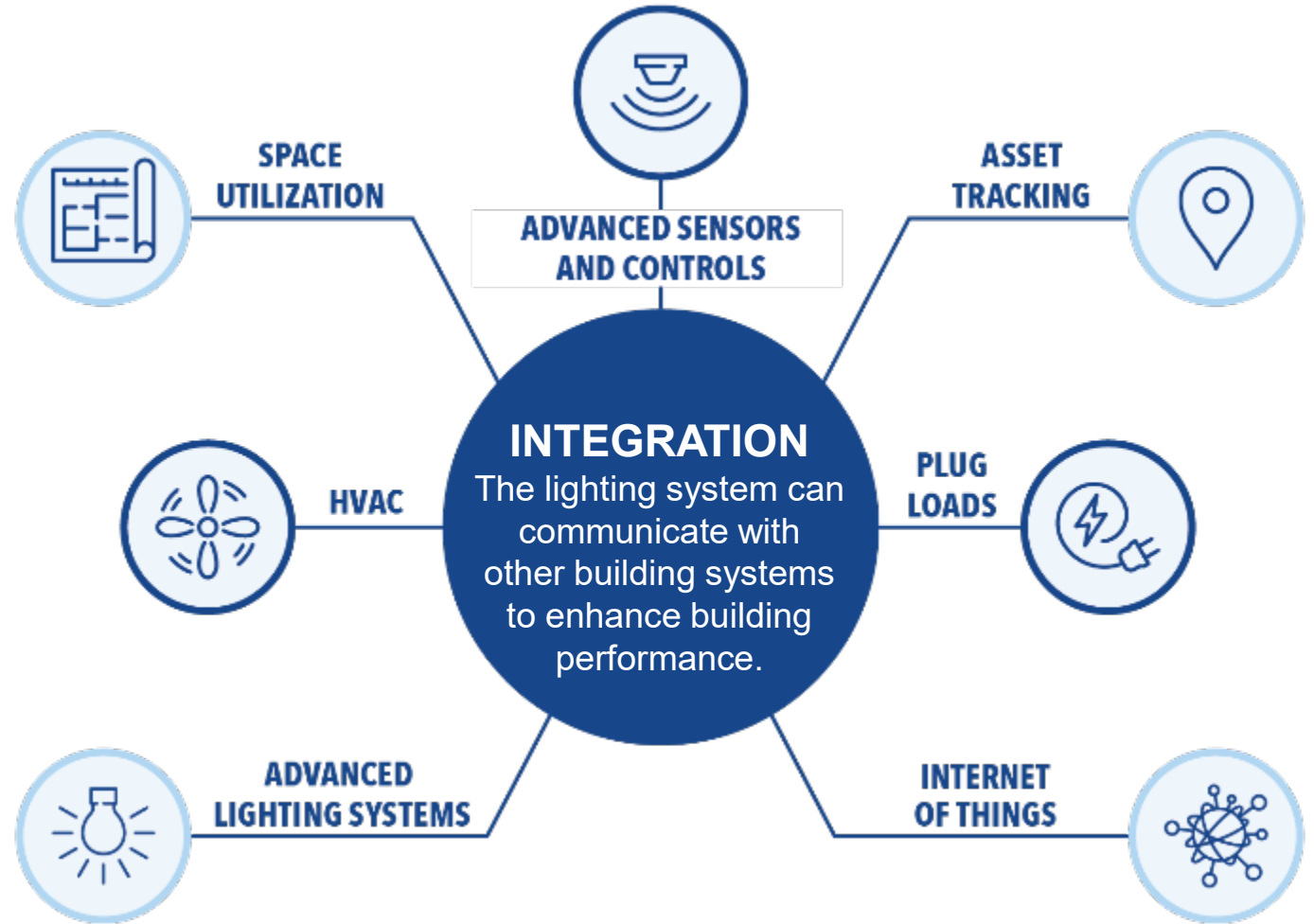
- The Campaign targets:
 - **Building owners and managers** who are open to adopting advanced and novel approaches to improve building performance
 - **Supporting organizations** that help facilitate adoption and support building owner managers
- Demonstrate and recognize **real-world savings and benefits**
- Provide resources that **make it easier for buyers** to consider new or underutilized solutions
- Celebrate **success!**



Overview – Integrated Lighting Campaign



The ILC recognizes **innovative lighting projects and organizations** that push the envelope in terms of integration, energy savings, novel capabilities, and non-energy benefits



Recognition Promotion

2022 RECOGNIZED PARTICIPANT

Better Buildings
U.S. DEPARTMENT OF ENERGY

ILC
Integrated Lighting Campaign

CHICAGO SMART LIGHTING PROGRAM
The City of Chicago is a Smart City.

Location:
Chicago, Illinois

Recognition Category:
Other Integrated Systems and Lighting

Building Type:
Street Lighting

Project Partners:
AMERESCO

integratedlightingcampaign.energy.gov

CHICAGO SMART LIGHTING PROGRAM (CSLP)

Converted more than 280,000 high-pressure sodium streetlights to high-efficiency LEDs with smart Lighting Management System.



Achieved \$8.7 Million (46%) in annual energy savings.



Resulted in improved and more responsive operations of lighting infrastructure.



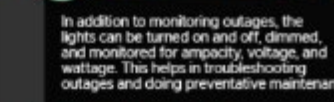
Considered one of the largest and most reliable Smart Technology Infrastructure systems in the country.



The City of Chicago hired a diverse workforce for this project, including 27% Minority Business and 7% Women's Business Enterprise participation, and 10% workers from economically disadvantaged areas.



In addition to monitoring outages, the lights can be turned on and off, dimmed, and monitored for ampacity, voltage, and wattage. This helps in troubleshooting outages and doing preventative maintenance.



FOR MORE INFO, CONTACT US AT: INTEGRATEDLIGHTING@PNNL.GOV

Infographics highlight key features, metrics and successes

Videos spotlight the participants, so they can tell the story



Recognition Event: IES Annual Conference, August 5, 2023



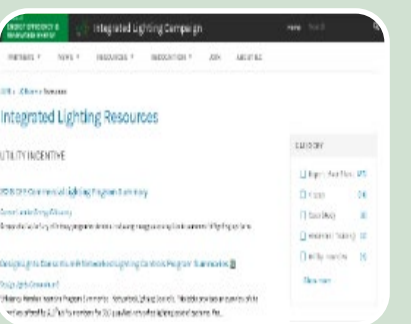
ILC Resources



Recorded
webinars
and training



Reports,
fact sheets,
and case
studies



Information
on utility
incentives



Technical
Assistance

Get involved: <https://integratedlightingcampaign.energy.gov>



Contact us: integratedlighting@pnnl.gov

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 \(akenergyauthority.org\)](#)

Energy Efficiency List Server

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

FY25 State Energy Program (SEP)

- Will be submitting the application by April 26, 2024

Energy Auditor Training (EAT) Program Grant – Concept Paper

- Submitted April for Topic Area One: Commercial Energy Auditors

Home Energy Rebates (HER) Programs

- Application submitted by the January 31, 2024 deadline
- Working on revisions for resubmission by April 26, 2024

Training for Residential Energy Contractors (TREC)

- Application submitted by the January 31, 2024 deadline
- Working on revisions for resubmission by April 26, 2024

Training for Residential Energy Contractors (TREC) – Competitive

- Letter of Intent due May 9, 2024

AEA Update (continued)



Energy Efficiency and Conservation Block Grant (EECBG)

- RE-VEEP (round one)
 - The application deadline was February 27, 2024
 - Three communities selected for sub-awards
- RE-VEEP (round two)
 - RFA issued March 2024
 - The application deadline is May 28, 2024

Energy Efficiency Revolving Loan Fund application submitted to DOE

- Submitted December 2023
- Working on revisions for resubmission.

Vehicle Technologies Office Grant

- \$1.67M award from the National Energy Technology Lab through the VTO at DOE for the Alaska Rural EVSE (Electric Vehicle Supply Equipment) Deployment (ARED) project

Solar for All Grant

- AEA and its partner, AHFC, have been selected for a \$62.5M award from the Environmental Protection Agency's (EPA) Solar for All program.

Grid Resilience and Innovative Partnerships (GRIP) Topic 3, Round 2

- Submitted an application on April 17, 2024, this is for \$730M (\$365 million Federal Grant and \$365 million Utility matching funds) for Phase II of transmission projects from Beluga to Healy.

Clean Energy Innovator Fellowship (CEIF) Program

- AEA was selected as a host institution. Applications due May 3.

Alaska Rural EVSE Deployment (ARED) Project



Total local sub-grant funding: \$2M

- \$1.67M federal funds
- \$417,496 AEA and project partner funds
- AEA will collaborate with communities to select sites and equipment based on community goals.
- Approximately nine rural hub communities will be selected to participate in the program.
- AEA and project partners will conduct community outreach to select site hosts. Infrastructure will be installed in the spring of 2025 through the summer of 2026.
- Funding amounts will vary from community to community.
- To learn more please reach out via email at electricvehicles@akenergyauthority.org

Renewable Energy - Village Energy Efficiency Program (RE -VEEP): Round Two



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.

Total local sub-grant funding: \$2.6M

- \$1.4M EECBG funds
- \$1.2M SEP BIL funds
- No match is required.
- 144 city and/or borough governments are eligible for funding.

Education, Building Codes, Energy Efficiency and Homeowner Assistance:



Solar For All

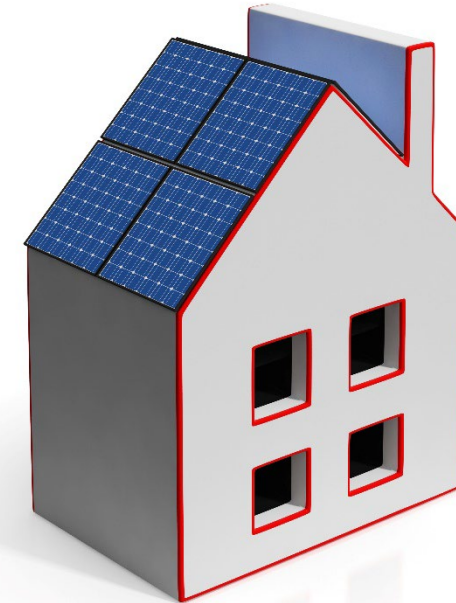


Residential rooftop and multi-family focus

Federal focus on disadvantaged communities and low-income Americans

Awarded at \$62,450,000

\$25 million	Single-Family Residential rooftop solar to AHFC
\$12.5 million	Single-Family Residential rooftop solar from TCC
\$10 million	Multi-family rooftop solar
\$10 million	Training, Outreach & Administration
\$5 million	Financing opportunity



State-Based Home Energy Efficiency Contractor Training Grants



Funding Available to Alaska: \$1,296,870.00

- Created a Workforce Advisory group representing workers, non-profits, educators, utilities, and government agencies.
- Engaging with stakeholders across the state in crafting the program.
- Finalizing Project Narrative & Budget



Framework for Responsive Code Development



Budget: \$1,500,000

Schedule: 3 Years

Held kick-off meeting with DOE personnel
on January 4th.

Working with the following Partners:

- Alaska Municipal League (AML)
- Alaska Association of Housing Authorities (AAHA)
- Alaska State Home Builders Association (ASHBA)



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

Energy Updates from:
Capacity Development Group
Energy Education

Alaska Energy Efficiency Working Group
April 23, 2024

Energy Transitions Initiative Partnership Project (ETIPP)

Cohort 4
Applications Open!

Renewable Energy Alaska
Project



What is ETIPP?

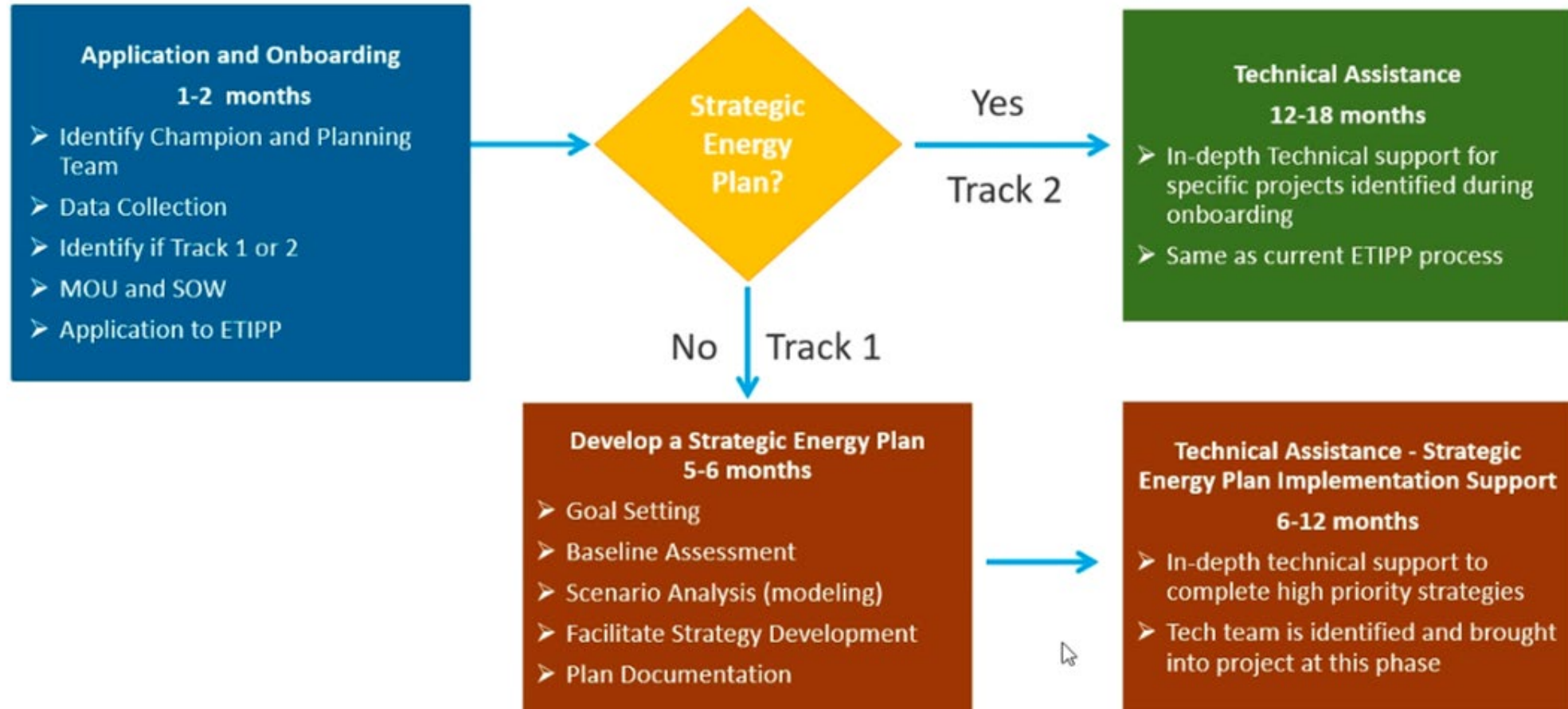
Energy Transitions Initiative Partnership Project

Provides technical assistance to remote and island communities to transform their energy systems and increase their energy resilience

Supports communities to understand their energy potential to integrate renewables while increasing efficiency



ETIPP Proposed Energy Planning Approach





Who can apply for ETIPP?

- **Alaska Tribes**
- **Alaska Village/Regional Corporations**
- **Non-Profit Organizations**
- **City entities**
- **Utilities**

Communities along the Railbelt are not eligible to apply. Awardees are eligible for up to \$50,000 in compensation for their time.



ETIPP Application Process

1. **Contact REAP Regional Partner**
 - Haleigh Reed or Bertha Prince
2. **Schedule a 1:1 meeting**
 - Discuss if ETIPP is a good fit your community
3. **Apply via online form by July 10, 2024**
 - [Short application](#)
 - Letters of support required
 - Feedback from REAP available

Important Dates for ETIPP

- **Application Period:** April 10, 2024-July 10 2024
 - Local government, Tribes and Corporations, utilities, and community-based organizations
- **Informational Webinar Registration:** April 24, 2024 11:00am-12:00pm
- **Selection Announcement:** late August 2024
- 12-18 months of technical assistance

[ETIPP Website](#)



To Apply Contact:

Haleigh @ hreed@realaska.org

Or Bertha @ bprince@realaska.org

REAP Energy Education Updates

- Outreach to over 1,500 students in Q1
- Clean Energy Olympics competition concluded in March
- Solar education outreach with Kawerak in Bering Strait school district
- KidWind REcharge Academy coming to Fairbanks in June
- Developed five AHFC Energy Efficiency adult education modules on Canvas



Turbine work at the Clean Energy Olympics competition



Students gather around the Solar Suitcase in Elim

Alaska Network for Energy Education & Employment (ANEEEE) Updates



- Participated in Lake & Peninsula School District's SNAP Meet career fair & classes this April
- *Powering Your Future* energy careers class with Kusilvak Career Academy this spring
 - Sign up for student speed networking on May 1: bit.ly/kcaspeednetworking
- Next Alaska Energy Training Group meeting scheduled for June 4 at 11 a.m.

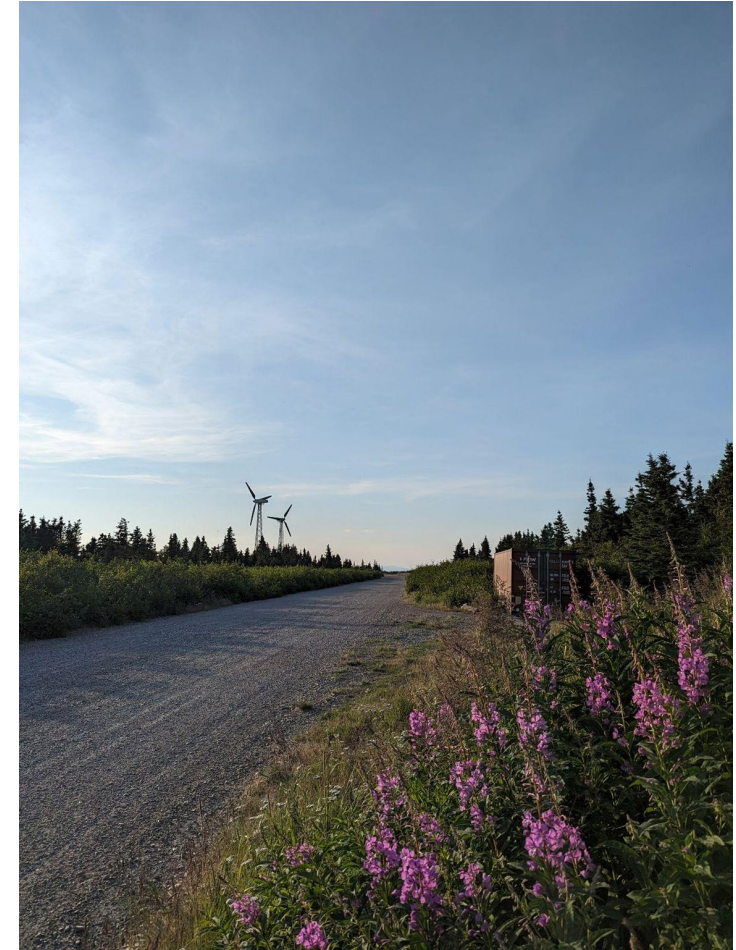


People in Power (PIP) Updates

Training coordination and delivery for stand-alone rural electric utilities' managers, clerks, operators, and governance bodies in 10 Alaskan communities throughout the state

- Enabled Kongiganak operator to obtain train-the-trainer certification for climb and rescue of wind turbine towers
- Technical assistance and onsite training for 10+ operators
- Developing a Power Cost Equalization and Quickbooks workshop for 8-12 managers and clerks this spring
- Maintain and share a resource inventory:

aneeeworks.org/resources/resources-for-utility-staff/



United States Department of Agriculture (USDA) Update

Dan Smith, State Energy Coordinator - Alaska

REAP

- Last quarter (3/31) received 127% of our state allocation, but because we have unused funds from previous quarters, we are still able to fund all projects
- Next deadline is 6/30

REAP-TAG

- Currently offering free energy audits, technical reports, and/or //SAM.gov/paper work assistance through FY23 partners (Rural CAP, Nuvista, Information Insights)
- We are close to making a decision on pending awards for FY24

RESP

- 0% interest loan from USDA to (state, utility, tribe, etc...) to start a revolving loan fund for various types of energy efficiency upgrade programs
- This could be used to help jumpstart the Alaska Green Bank if the pending legislation passes

If anyone has follow-up questions or needs more information, please let Dan Smith know.

Dan Smith

State Energy Coordinator - Alaska

United States Department of Agriculture

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Chugach Update

Chantelle Lewis-Boutté, Member & Energy Programs

Chugach Electric Member Appreciation

- Date & Time: Fri May 17, 2024 from 03:00 pm to 06:00 pm
- Location: ChangePoint Alaska (6689 Changepoint Drive, Anchorage), Changepoint Alaska, 6689 Changepoint Dr, Anchorage, AK
- To learn more and reserve a seat on the power plant tour, go to: <https://www.chugachelectric.com/member-appreciation>



Source: <https://www.chugachelectric.com/member-appreciation-day-0>