Clean Energy Capacity Building

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YK Triple E Work Session
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Founded in 2004, REAP is a statewide non-profit coalition of over 80 electric utilities, Alaska Native Corporations, clean energy developers, businesses and other NGOs.

REAP’s mission is to increase renewable energy development and promote energy efficiency in Alaska.
How REAP Sees the Clean Energy Landscape

Energy Efficiency First!

- Technology
- Workforce, Education & Training
- Finance
- Policy
Alaska's Annual Billion Dollar Bonfire

Each year, Alaskans collectively spend approximately $5 billion on electric, heating, and transportation energy. At least 20% of that energy is wasted land goes up in smoke.
K-12 STEM Education and Community Engagement

- K-12 Clean Energy Curricula
- Sustainable Southeast Partnership (SSP)
- Alaska Network for Energy Education and Employment (ANEEE)
The Alaska Network for Energy Education and Employment (ANEE)

MAPPING WHERE ALASKANS LEARN - TRAIN - EARN

In Alaska’s Energy Sector

KINDERGARTEN - 12th GRADE

VOCATIONAL

University of Alaska & APU

JOBS & CAREERS
A Legacy of Challenges and Barriers

- Distance
- Logistics
- Access to / Opportunities for Education & Training
- Literacy/Numeracy
- Economies of Scale
- Realistic Expectations
- Accountability
- Cultural Differences

$$
A Legacy of Overcoming Challenges and Barriers
TWO WAYS OF TRAINING
You Go to Them

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Learn a Skill...Get a Great Job

AVTEC
Alaska’s Institute of Technology
www.avtec.edu
1-800-478-5389  1-907-334-2230
...or They Come To You
Norm Miller's Classroom

COMMUNITIES SERVED

ALASKA VILLAGE ELECTRIC COOPERATIVE
Training Lessons from Norm Miller

1) Improve math and reading.

2) On-Call support for problems with mechanical controls, electrical controls and distribution.

2) A full understanding of how engine and controls function as a system. This requires that each operator must be trained at their own individual plant.

3) Compliance inspection at lease every quarter, preferably every month. Assistance or technical support for every compliance issue. (This requires a great number of circuit riders).

4) Strong administrative support from the village/tribal council.
IT ALWAYS STARTS WITH A CHAMPION

- Do you systematically assess training needs of your community?
- Does anyone in your community track available training opportunities?
- Have you collaborated with another organization in the past 3 years to provide training?
- Leveraging / tapping into organizations already in the community is the best starting point - expand from there.
- What is the most important constraint on training?
  A) Employer resistance?
  B) Cost?
  C) Perceived benefits?
  D) Fear of losing a good worker - Brain Drain?
Strengthen the In-Community Energy Network

- COORDINATE TRAININGS with other COMMUNITIES
- INCENTIVIZE CLERKS, MANAGERS - Put PCE to work!
- HIRING PROCESS IMPROVES / STATUS IMPROVES
- STUDENT GOVERNMENT
EXPAND YOUR NETWORK:
REACH OUT, SHARE KNOWLEDGE & TALK TO OTHER COMMUNITIES

- PCE TIPS FROM OTHER CLERKS
- FIND LOCAL EXPERTS
- ADVICE ON RENEWABLE PLANNING
- TROUBLESHOOTING - FELLOW AVTEC GRADUATES
- ERIC MIDDLEBROOK MODEL - Southwestern Technical - A One Man Network out of Bethel
Takeaways

- More **local capacity can create jobs and keep precious energy dollars in the community** by making sure equipment is running efficiently.

- **Math and reading are important!**

- **Every community needs a champion** to track training opportunities and strengthen the community network.

- **Reach out and collaborate** with nearby communities.
Thank You!
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