



## 2015 RENEWABLE ENERGY PROJECT DEVELOPMENT AND FINANCE WORKSHOP ALASKAN NATIVE VILLAGES

### BETHEL, AK

March 23–25 (Half-day Wednesday)

Yupitit Piciryarait Cultural Center at University of Alaska Extension

#### Learning Objectives

- 1) Understand the process for and potential pitfalls of developing and financing community and facility scale renewable energy projects
- 2) Determine how the development of a renewable energy project could further a Tribe's goals
- 3) Learn from the experience of other tribal efforts in renewable energy development.

**Anticipated Results:** Attendees will be comfortable discussing renewable energy project development possibilities with project developers and project financing options with potential investors. Potential tribal roles will be clear and participants will better understand the value of Strategic Energy Planning (SEP) and the five-step project development and financing process.

#### Day 1: Monday, March 23

<b>8:30–9:00 a.m.</b>	<b>Registration, coffee and light breakfast</b>
<b>9:00–9:30 a.m.</b>	<b>Welcome and Workshop Overview</b> U.S. Department of Energy (DOE) Office of Indian Energy DOE Office of Energy Efficiency and Renewable Energy Tribal Energy Program National Renewable Energy Laboratory (NREL)
<b>9:30–10:15 a.m.</b>	<b>DOE's Role –Givey Kochanowski</b> <b>Attendee Introductions</b> –Workshop attendees share name, village, role in energy projects
<b>10:15–11:15 a.m.</b>	<b>PANEL: Alaska energy partners discuss energy status, goals and potential collaborations.</b> Alaska Energy Authority (AEA) and/or local energy partners, Mark Stemp & Brent Latham of Association of Village Council Presidents (AVCP) Water Energy Nexus, Eric Hanssen of Alaska Native Tribal Health Consortium (ANTHC) and Sherry Stout of NREL Tiffany Zulkosky of Nuvista and AEA
<b>11:15–11:30 a.m.</b>	<b>Break</b>
<b>11:30–12:00 p.m.</b>	<b>Strategic Energy Planning (SEP) to strengthen your financial partnerships</b>
<b>12:00–1:00 p.m.</b>	<b>Lunch</b>
<b>1:00–2:30 p.m.</b>	<b>SEP Community Discussion, Brent Latham of AVCP, Tiffany Zulkosky of Nuvista, Erik Hansen of ANTHC and Jed Drolet of AEA</b>
<b>2:30–2:45 p.m.</b>	<b>Break</b>
<b>2:45–4:00 p.m.</b>	<b>Presentation and Discussion: NREL</b> Project Options and Technology Summaries
<b>4:00–5:00 p.m.</b>	<b>DOE and AEA: Givey Kochanowski and Jed Drolet</b> DOE's role, vision and offerings. Benefits of community scale projects

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Next steps and goals for SEP

## Day 2: Tuesday, March 24

8:30–9:00 a.m.	<b>Coffee and light breakfast, Review Day 1</b>
9:00–9:15 a.m.	<b>Review the Five-Step Project Development Process</b>
9:15–10:15 a.m.	<b>Step 1: Project Potential—Data Collection and Opportunity Assessment</b> <ul style="list-style-type: none"> <li>• Technology Choices</li> <li>• Microgrid Capital—Alaska</li> <li>• Tools <ul style="list-style-type: none"> <li>○ Resources</li> <li>○ Siting</li> <li>○ System Advisor Model (SAM)</li> <li>○ Community Priorities</li> <li>○ Technical Assistance</li> </ul> </li> <li>• Jack Hebert—Cold Climate Housing Research Center</li> </ul>
10:15–10:30 a.m.	<b>Break</b>
10:30–12:00 p.m.	<b>Step 2: Project Options—Planning and Development</b> <ul style="list-style-type: none"> <li>• Levelized Cost of Energy (LCOE)</li> <li>• Business Structures</li> <li>• AEA Grants and Loans—Jed Drolet of AEA</li> <li>• Tax-Equity Partnership—Paul Schwabe of NREL</li> <li>• Tribal Roles</li> <li>• Technical Assistance</li> </ul>
12:00–1:00 p.m.	<b>Lunch</b>
1:00–2:00 p.m.	<b>Step 3: Project Refinement—Planning and Development</b> <ul style="list-style-type: none"> <li>• Grants (USDA, Regional Corporation Partnerships, Incentives, Loans, ESPCs)</li> <li>• Risk</li> <li>• Diesel Efficiency</li> <li>• Procurement with GSA—Givey Kochanowski</li> </ul>
2:00–3:00 p.m.	<b>Step 4: Project Implementation—Financing and Construction</b> <ul style="list-style-type: none"> <li>• Cost Avoidance—Givey Kochanowski</li> <li>• Public Financing—AEA</li> <li>• Private Financing—NREL and Regional Corporations</li> <li>• Procurement Packet—Sample Off Grid RFPs for Solar PV and Wind</li> </ul>
3:00-3:15pm	<b>Break –Coffee and snacks</b>
3:15-4:15pm	<b>Step 5: Project Operations and Maintenance</b> <ul style="list-style-type: none"> <li>• Importance of a Good O&amp;M Plan</li> <li>• Wind, Solar PV, and Biomass O&amp;M</li> <li>• Technical Assistance—START</li> </ul>
4:15-5:00pm	<b>Closing – Givey Kochanowski, DOE</b>



### Day 3: Wednesday, March 25

#### New Location: AVCP Regional Housing Authority

- 8:30–9:00 a.m. Gather at new location: AVCP Regional Housing Authority
- 9:00 a.m.–12:00 p.m. Energy Audit: Meet at AVCP Regional Housing Authority for Van Pool to 1004 Mallard
- 9:00–12:00 p.m. Technical Assistance—NREL Team  
Location: AVCP Regional Housing Authority  
NREL staff will offer customized technical assistance, and sign you up for additional technical assistance on your next steps to help you move your energy efficiency and renewable energy projects to action.
- 12:00 p.m. Thank you!! Please turn in any evaluations to DOE or NREL staff.

