

2015 RENEWABLE ENERGY PROJECT DEVELOPMENT AND FINANCE WORKSHOP ALASKAN NATIVE VILLAGES

Dillingham, AK

March 25–27 University of AK Bristol Bay Campus Room 128/130

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 1a: Wednesday, March 25 7:30-8:30 p.m.

	7:30-8:30 p.m.	The Economic Relationship of Energy Efficiency and Renewable Energy By Professor Tom Marsik of the University of Alaska Location: University of Alaska Bristol Bay Campus Room 128/130 • Definition and examples of energy efficiency and renewable energy (EERE) • Economics of Energy Efficiency • The EERE ultimate solution
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Day 1: Thursday, March 26		
8:30-9:00 a.m.	Registration, coffee, and light breakfast	
9:00-9:30 a.m.	Welcome and Workshop Overview 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)	
9:30-10:15 a.m.	DOE's Role –Givey Kochanowski Attendee Introductions –Workshop attendees share name, village, role in energy projects	
10:15-11:15 a.m.	PANEL: Alaska energy partners discuss energy goals and potential collaborations. Alaska Energy Authority (AEA) and/or local energy partner, Lawrence Sorensen of Bristol Bay Native Association (BBNA) and Jed Drolet of AEA Water Energy Nexus, Eric Hanssen of Alaska Native Tribal Health Consortium (ANTHC) and Sherry Stout of NREL Mike Megli of Nushagak Electric Cooperative, Inc.	
11:15-11:30 a.m.	Break	
11:30 a.m12:00 p.m.	Strategic Energy Planning (SEP) to strengthen your financial partnerships	
12:00-12:30 p.m.	On-site lunch provided by AEA	
12:30-3:30 p.m.	AEA and BBNA - Regional Strategic Planning Session	
3:30-3:45 p.m.	Break - Coffee and snacks	
3:45-4:30 p.m.	Presentation and Discussion: NREL	

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Project Options and Technology Summaries

4:30-5:00pm DOE and AEA: Givey Kochanowski and Jed Drolet

DOE's role, vision and offerings.

Benefits of community scale projects

Next steps and goals for SEP

Day 2: Friday, March 27

8:30-9:00 a.m. Coffee and light breakfast, Review Day 1

9:00–9:15 a.m. Review the Five-Step Project Development Process

9:15-10:15 a.m. Step 1: Project Potential—Data Collection and Opportunity Assessment

Technology Choices

- Microgrid Capital—Alaska
- Tools
 - o Resources
 - Siting
 - System Advisor Model (SAM)
 - Community Priorities
 - o Technical Assistance

10:15-10:30 a.m. Break

10:30 a.m.-12:00

Step 2: Project Options—Planning and Development

p.m.

- Levelized Cost of Energy (LCOE)
- Business Structures
- AEA Grants and Loans, Jed Drolet of AEA
- Tax-Equity Partnership, Paul Schwabe of NREL
- Tribal Roles
- Technical Assistance

12:00-1 p.m. Lunch on Your Own

1:00–2:00 p.m. Step 3: Project Refinement—Planning and Development

- Grants (USDA, Regional Corporation Partnerships, Incentives, Loans, ESPCs)
- Risk
- Diesel Efficiency
- Procurement with GSA, Givey Kochanowski

2:00–3:00 p.m. Step 4: Project Implementation—Financing and Construction

- Cost Avoidance, Givey Kochanowski
- Public Financing—AEA
- Private Financing—NREL and Regional Corporations
- Procurement Packet—Sample Off Grid RFPs for Solar PV and Wind

3:00-3:15 p.m. Break -Coffee and snacks

3:15–4:15 p.m. Step 5: Project Operations and Maintenance

- Importance of a Good O&M Plan
- Wind, Solar PV and Biomass O&M
- Technical Assistance—START

4:15–5:00 p.m. Closing—Givey Kochanowski of DOE