



An Alaska Wind Working Group Event

Sponsored by

Alaska Energy Authority

Hosted by

Renewable Energy Alaska Project (REAP)

In conjunction with

Arctic Remote Energy Networks Academy (ARENA)

Alaska Center for Energy & Power (ACEP)

AGENDA

ALASKA WIND-DIESEL WORKSHOP

TUESDAY • JUNE 20, 2017 (*see below for times & locations*)	
11:45-12:45pm	WIND DIESEL 101 University of Alaska Fairbanks 314 South Chandalar Drive Gruening Building, Room 306
1:00-4:30pm	HOMER ENERGY TRAINING University of Alaska Fairbanks 314 South Chandalar Drive Gruening Building, Room 408
5:00-6:15pm	WELCOME RECEPTION & REGISTRATION Cold Climate Housing Research Center 1000 Fairbanks Street (907) 457-3454

<div>WEDNESDAY • JUNE 21, 2017</div> <div>FAIRBANKS PIPELINE TRAINING CENTER</div> <div>3600 Cartwright Court, Fairbanks, AK 99709</div> <div>907-455-1240</div>		
7:00-8:00am	REGISTRATION & HOSTED BREAKFAST	
8:00-8:30am	<div>WELCOME & STATE OF THE MARKET</div> <div><i>The technology market for islanded grids is rapidly growing from applications in remote communities to microgrids in big cities. This welcome will provide an overview of the state of the market, and ways to optimize existing wind-diesel systems.</i></div> <div>Chris Rose, Executive Director, Renewable Energy Alaska Project (REAP) Ian-Baring-Gould, Wind Technology Deployment Manager, National Renewable Energy Laboratory (NREL) Dr. Jim Johnsen, President, University of Alaska</div>	
PLENARY #1 8:30-10:00am	<div>WIND-DIESEL INTEGRATION PART 1: DATA AND CONTROLS</div> <div>Moderator: Brian Hirsch, Deerstone Consulting</div> <div><i>Good data, planning, and controls all play a part in successful integration of renewable technologies in a hybrid diesel grid. This moderated panel will walk through key steps to successful integration of wind and other renewables.</i></div>	
		<div>Using Data to Right Size Energy Storage</div> <div>Jeremy Vandermeer, Research Engineer, Alaska Center for Energy & Power (ACEP) Fairbanks, Alaska</div>
		<div>Data Streams for Control: Current and Future Practices</div> <div>Marc Mueller-Stoffels, Power Systems Integration Program Director, Alaska Center for Energy & Power (ACEP) Fairbanks, Alaska</div>
		<div>Future Proofing Remote Power Systems</div> <div>Bill Thomson, Operations Manager, Alaska Village Electric Cooperative (AVEC) Anchorage, Alaska</div>
10:00-10:30am	NETWORKING BREAK	
PLENARY #2 10:30-12:00pm	<div>WIND-DIESEL INTEGRATION PART 2: ENERGY STORAGE</div> <div>Moderator: Ian Baring-Gould, National Renewable Energy Laboratory (NREL)</div> <div><i>Cost effective, reliable energy storage is critical to achieving high contributions of renewable energy in microgrids. This moderated panel will highlight challenges and best practices for using storage to increase the utilization of renewable energy and better balance system frequency and loads.</i></div>	
		<div>Going Beyond Wind in Small, Remote Alaskan Communities</div> <div>John Glassmire, Energy Engineering Director & Peter Lilienthal, CEO, HOMER Energy Seattle, Washington</div>
		<div>Battery & System Performance in Kotzebue</div> <div>Matt Bergan, Project Engineer, Kotzebue Electric Association Kotzebue, Alaska</div>
		<div>Storing Wind for Diesel-Off Operation in the NW Arctic Borough</div> <div>Brian Hirsch, President, Deerstone Consulting Anchorage, Alaska</div>
12:00–1:00pm	<div>HOSTED LUNCH</div> <div>Arctic Remote Energy Networks Academy (ARENA) Program Overview George Roe, Alaska Center for Energy & Power (ACEP)</div>	

PLENARY #3 1:00-2:30pm	<p>PROJECT SUPPORT: FINANCING, TRAINING & POLICY Moderator: Cady Lister, Alaska Energy Authority</p> <p><i>Successful operators know wind projects require more than just good technical operation. This moderated panel will explore one possible option for financing small wind projects, and discuss training, education, and policies.</i></p>	
		<p>Alaska Microgrid Partnership Ian Baring-Gould, Wind Technology Deployment Manager, National Renewable Energy Laboratory (NREL) Golden, Colorado</p>
		<p>Education & Training To Support Clean Energy Chris McConnell, Director, Alaska Network for Energy Education and Employment (ANEED @ Renewable Energy Alaska Project) Anchorage, Alaska</p>
		<p>Leveraging Private Capital through a State Green Bank Chris Rose, Executive Director, Renewable Energy Alaska Project (REAP) Anchorage, Alaska</p>
2:30-3:00pm	NETWORKING BREAK	
PLENARY #4 3:00-4:30pm	<p>SOLVE IT! Moderator: Josh Craft, Alaska Energy Authority</p> <p><i>This moderated session will highlight how various communities are resolving common issues facing hybrid systems on islanded grids.</i></p>	
		<p>Line Loss Dave Messier, Rural Energy Coordinator, Tanana Chiefs Conference Fairbanks, Alaska</p>
		<p>Operations & Maintenance Roderick Phillip, CEO, Puvurnaq Power Company Kongiganak, Alaska</p>
		<p>Rate Setting for Small Utilities Connie Fredenberg, Small Utility Administration Consultant/Trainer, Utility Management Assistance Palmer, Alaska</p>
		<p>Rural Utility Business Advisor (RUBA) Program Jeff Congdon, Local Government Specialist, Division of Community & Regional Affairs Fairbanks, Alaska</p>
4:30-5:30pm	<p>WRAP-UP SESSION Moderator: Chris Rose, Renewable Energy Alaska Project (REAP)</p> <p>Ian Baring-Gould, National Renewable Energy Laboratory (NREL) Michael Kuca, US Dept. of Energy Office Of Indian Energy Josh Craft, Alaska Energy Authority Marc Mueller-Stoffels, Alaska Center for Energy & Power</p>	

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