



## 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	<b>WIND DIESEL 101</b> University of Alaska Fairbanks 314 South Chandalar Drive Gruening Building, Room 306
1:00-4:30pm	<b>HOMER ENERGY TRAINING</b> University of Alaska Fairbanks 314 South Chandalar Drive Gruening Building, Room 408
5:00-6:15pm	<b>WELCOME RECEPTION &amp; REGISTRATION</b> Cold Climate Housing Research Center 1000 Fairbanks Street (907) 457-3454

## WEDNESDAY • JUNE 21, 2017

### FAIRBANKS PIPELINE TRAINING CENTER

3600 Cartwright Court, Fairbanks, AK 99709

907-455-1240

7:00-8:00am	<b>REGISTRATION &amp; HOSTED BREAKFAST</b>
8:00-8:30am	<b>WELCOME &amp; STATE OF THE MARKET</b> <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> 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
PLENARY #1 8:30-10:00am	<b>WIND-DIESEL INTEGRATION PART 1: DATA AND CONTROLS</b> Moderator: Brian Hirsch, Deerstone Consulting <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>
10:00-10:30am	<b>NETWORKING BREAK</b>
PLENARY #2 10:30-12:00pm	<b>WIND-DIESEL INTEGRATION PART 2: ENERGY STORAGE</b> Moderator: Ian Baring-Gould, National Renewable Energy Laboratory (NREL) <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>
12:00-1:00pm	<b>HOSTED LUNCH</b> <i>Arctic Remote Energy Networks Academy (ARENA) Program Overview</i> George Roe, Alaska Center for Energy & Power (ACEP)

## PROJECT SUPPORT: FINANCING, TRAINING & POLICY

Moderator: Cady Lister, Alaska Energy Authority

*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.*

PLENARY #3  
1:00-2:30pm

### **Alaska Microgrid Partnership**

**Ian Baring-Gould, Wind Technology Deployment Manager, National Renewable Energy Laboratory (NREL) Golden, Colorado**

### **Education & Training To Support Clean Energy**

**Chris McConnell, Director, Alaska Network for Energy Education and Employment (ANEEE @ Renewable Energy Alaska Project)  
Anchorage, Alaska**

### **Leveraging Private Capital through a State Green Bank**

**Chris Rose, Executive Director, Renewable Energy Alaska Project (REAP) Anchorage, Alaska**

2:30-3:00pm

## NETWORKING BREAK

## **SOLVE IT!**

Moderator: Josh Craft, Alaska Energy Authority

*This moderated session will highlight how various communities are resolving common issues facing hybrid systems on islanded grids.*

PLENARY #4  
3:00-4:30pm

### **Line Loss**

**Dave Messier, Rural Energy Coordinator, Tanana Chiefs Conference Fairbanks, Alaska**

### **Operations & Maintenance**

**Roderick Phillip, CEO, Puvurnaq Power Company Kongiganak, Alaska**

### **Rate Setting for Small Utilities**

**Connie Fredenberg, Small Utility Administration Consultant/Trainer, Utility Management Assistance Palmer, Alaska**

### **Rural Utility Business Advisor (RUBA) Program**

**Jeff Congdon, Local Government Specialist, Division of Community & Regional Affairs Fairbanks, Alaska**

4:30-5:30pm

## WRAP-UP SESSION

Moderator: Chris Rose, Renewable Energy Alaska Project (REAP)

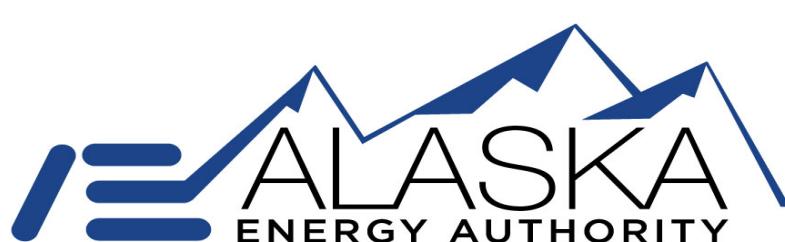
Ian Baring-Gould, National Renewable Energy Laboratory (NREL)

Michael Kuca, US Dept. of Energy Office Of Indian Energy

Josh Craft, Alaska Energy Authority

Marc Mueller-Stoffels, Alaska Center for Energy & Power

## **THANK YOU TO OUR SPONSOR!**



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