



# 2011 Rural Energy Conference

Tuesday Morning

## Agenda Details

September 27, 2011



7:00	<b>Registration &amp; Continental Breakfast</b>				Sheffield 1
8:00	<b>Welcome</b>	Moderator: Julie Estey	Alaska Center for Energy and Power		Sheffield 2-3
	Presenters:	President Edward Thomas Central Council Tlingit Haida Indian Tribes of Alaska	Mayor Bruce Botelho City of Juneau		
8:45	<b>Keynote Introduction</b>	Chair: Gwen Holdmann	Alaska Center for Energy & Power		Sheffield 2-3
	Presenters:	Sara Fisher-Goad Executive Director Alaska Energy Authority	Joel Neimeyer Federal Co-Chair Denali Commission	Mike Pacheco & Brian Hirsch National Renewable Energy Laboratory	
10:00	<b>Break</b> (Sponsored by National Renewable Energy Laboratory)				Sheffield 1
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10:30	<b>Senator Lisa Murkowski</b>				Sheffield 2-3
	<b>Plenary Session 1</b>				
10:45	<b>Putting Alaska Energy Into Perspective</b>				Sheffield 2-3
	This session will allow participants from a wide range of perspectives and expectations to come together to learn from one another - sharing our success stories, as well as discussing the common challenges we face. Using Consensor handheld voting devices, we will to look at energy from our various backgrounds and discuss our hopes, dreams, and expectations for the future.				
	Facilitators:	Gwen Holdmann Alaska Center for Energy & Power	David Lockard Alaska Energy Authority	Chris Rose Renewable Energy Alaska Project	Robert Venables Southeast Conference
Noon	<b>Lunch</b>				Sheffield 1

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12:30

### Special Presentation: Mythbusters

Sheffield 2-3

Join Professor Archie Debunker for a fun, lighthearted look at how to become a do-it-yourself energy detective, sorting through the range of possible to improbable ideas (breaking a few laws of physics) that have been proposed as 'solutions' to rural energy. Based loosely on the popular TV show 'Mythbusters'.



### **Archie Debunker: An Autobiography** *(written by Archie Debunker)*

Dr. Archabald DeBunker

Was born and raised on a farm, where his preparation for his ultimate career began with one of his first jobs—helping his father clean out the stables. After receiving a degree in physics he earned a doctorate in Engineering (his father called him “a doctor, alright, but not the kind that can do you any good”) at a good institution that would prefer to remain nameless.

Dr. DeBunker worked briefly as a work study student at a nuclear power plant under construction in the heady days of the spring of 1979, when Skylab fell and TMI blew (though neither of these two events were a result of his efforts or lack thereof).

After receiving his doctorate, he worked for a major corporation, where he watched ambitious managers obtain major promotions by converting factories from obsolete, expensive processes that worked to new, cheaper processes that didn't, resulting in the loss of hundreds of jobs, but unfortunately not of those recently promoted, who had quickly and cleverly transferred to other parts of the company.

More recently he has watched multiple start-up companies run by MBA's with ties and big stock option packages use market studies to invent products advertised with glossy brochures complete with well known corporate logos at the bottom, then fire their engineering staff when they fail to deliver the described product.

Since corporate policy, especially in the US, is to always “shoot the messenger”, Dr. DeBunker is somewhat reluctant to speak in public, but nobody pays attention to this conference anyway, so he has agreed to come speak to us, though he did seem a little nervous a few minutes ago...



# 2011 Rural Energy Conference

Tuesday Afternoon

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1:30

### Technical Session 1 (Choose One)

#### A. Financing a Project

Chair: Jim Strandberg Alaska Energy Authority

Egan

Building energy infrastructure in Alaska is an expensive proposition, generally well beyond the financial capital of power utilities and local governments. This session explores the concept of a financial partnership between the state of Alaska and utilities as a springboard towards achieving our goals for future infrastructure development that will lower cost of power for Alaskans.

Presenters:	Mark Davis	Ken Vassar	Dave Carlson	Bob Grimm
	Alaska Industrial Development & Export Authority	Birch Horton Bittner & Cherot	Southeast Alaska Power Agency	Alaska Power & Telephone
		<i>'Bonds'</i>	<i>'Anatomy of a Finance Package'</i>	<i>'Public/Private Partnerships'</i>

#### B. Performance of Wind Systems: Wind Systems Come with a Learning Curve

Chair: Rich Stromberg Alaska Energy Authority

Sheffield 2-3

A broad snapshot of wind energy system configurations from low-penetration wind-diesel systems to medium penetration wind-diesel, wind-diesel with storage hydro and all sizes of wind turbines on the Railbelt grid. Speakers will address lessons learned and best practices.

Presenters:	Darron Scott	Kat Keith & Ginny Fay	Brent Petrie & Bill Thompson	Mike Craft	Isaiah Towarak & Kris Noonan
	Kodiak Electric Association	ACEP/ISER	Alaska Village Electric Cooperative	Alaska Environmental Power	Unalakleet Valley Electric Cooperative/AEA
	<i>'Megawatt-Scale Wind in a Storage-Hydro/Diesel System'</i>	<i>'Wind System Performance and Best Practices Guide'</i>	<i>'Results from 10 Wind Systems in Western Alaska'</i>	<i>'Performance of Wind Systems on the Railbelt'</i>	<i>'Performance in a Community with the Greatest Number of NW100 Turbines'</i>



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### Technical Session 1 *Continued*

1:30 **C. Permitting and Regulations**      Chair: Rick Harris      Sealaska Corporation      Hickel

Can energy projects benefit from more efficient and predictable State and Federal permitting? Hear about recent experiences and recommend changes that improve regulatory efficiency and reduce cost of energy development that is borne by the consumer.

Presenters:	Barbara Stanley	Steve Selvaggio	Monty Worthington	Ethan Schutt
	U.S.Forest Service	Whitestone Power & Communications	Ocean Renewable Power Company	Cook Inlet Region, Inc.
	<i>'Role of the Forest Service in Hydropower Permitting/Licensing'</i>	<i>'Poncelet Kinetics and the Regulatory Process'</i>	<i>'Permitting for Hydrokinetic Devices'</i>	<i>'Fire Island Permitting Hurdles'</i>

**D. Energy Efficiency: Taking the Message**      Chair: Katie Conway      Alaska Energy Authority      Hammond

Meeting the State's 15% by 2020 energy efficiency goal will require a significant behavior change initiative across Alaska. Come hear some lessons learned in the field and take home a strategy or two that might work in your neck of the woods!

Presenters:	Cady Lister	Todd Hoener	Ellen Kazary
	Information Insights	Golden Valley Electric Association	RurAL CAP
	<i>'How do we get people to hear what we are saying?'</i>	<i>'A Utility's Perspective: Effective Efficiency'</i>	<i>'The Community Perspective: Tried and True Lessons from the Field'</i>

3:00 Break

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# 2011 Rural Energy Conference

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### Technical Session 2 (Choose One)

3:30     **A. Progress Toward Alaska's Renewable & Efficiency**     Chair: Mike Black     Alaska Native Tribal Health Consortium     Hickel

The state of Alaska has been a leader in investing in innovative energy solutions. The Renewable Energy Fund, one of the first of its kind in the nation, has provided over \$175 million for in-state renewable energy projects. The new Emerging Energy Technology Fund is intended to invest in demonstrating potential energy solutions for the state. In addition, the state has invested heavily in end use efficiency. Program managers from these programs will provide updates and discuss opportunities for the future.

Presenters:	Peter Crimp	Denali Daniels & Jason Meyer	Scott Waterman
	Alaska Energy Authority	Denali Commission / Alaska Center for Energy & Power	Alaska Housing Finance Corporation
	<i>'Renewable Energy Fund'</i>	<i>'Emerging Energy Technology Fund'</i>	

**B. Energy Storage**     Chair: Frank Williams     Alaska Center for Energy & Power     Hammond

The Energy Storage session will be appropriately focused on: current research and development activity with flow battery technology, existing and prospective energy storage applications in Alaska, and the range of energy storage technologies being explored nationally.

Presenters:	Billy Muhando	Dennis Witmer	David Lockard	Karen Waldrip
	Alaska Center for Energy & Power	Energy Efficiency Evaluations	Alaska Energy Authority	Sandia National Laboratory
	<i>'Redox Flow Battery Testing: Performance Analysis and Validation for Cold Climate Operation'</i>	<i>'Premium Power Transflow 2000 Demonstration Project at Kotzebue Electric Association'</i>	<i>'Energy Storage Systems in Alaska Today'</i>	<i>'Energy Storage: A National Perspective'</i>



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### Technical Session 2 *Continued*

3:30 **C. Biomass - From Goals to Strategy to Reality** Chair: Bob Deering U.S. Coast Guard Civil Engineering Unit Egan

Taking biomass in Alaska to the next level, this session will focus on developing coordinated goals and strategies for regional transitions to biomass energy.

Presenters:	Dave Sjoding	David Dungate	Forrest Cole	Read Smith
	Clean Energy Application Center	ACT Bioenergy	Tongass Forest Service Supervisor	25 x 25

**D. How Far Can Efficiency Take Us?** Chair: Ginny Fay Institute of Social and Economic Research Sheffield 2-3

This session will focus on rural energy end uses and the potential for increased energy efficiency to reduce energy consumption and costs. Presentations will include village energy end use surveys used to model village energy use, water system energy use, weatherization of residential structures, and the ongoing Alaska Energy Authority end use study.

Presenters:	Jay Hermanson WH Pacific	Dan Reitz Alaska Native Tribal Health Consortium	Jimmy Ord Alaska Housing Finance Corporation	Steve Colt Institute of Social and Economic Research	Sohrab Pathan ISER & ACEP
	<i>'Alaska End Use Study: Preliminary Results'</i>	<i>'Energy Use of Rural Water Systems'</i>	<i>'Program Stats'</i>	<i>'Looking at the Whole Energy Picture: The Village Energy Model'</i>	<i>Evaluation of the Low Income Weatherization Program and the Home Energy Rebate Program</i>

6:00 **EVENING RECEPTION** Evening Reception at the Douglas Island Pink & Chum Hatchery. Light hors d'oeuvres served. (Shuttles depart from Centennial Hall starting at 5:45). Sponsored by Alaska Energy Authority.

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7:00 Registration & Continental Breakfast

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### **Hydrokinetics: Working Group Session**

Chair: Jason Meyer Alaska Center for Energy & Power

Hickel

This session will explore recent projects and research in Alaskan hydrokinetics. Presentations will include updates on several Alaskan projects, efforts in statewide resource assessment, and findings from lessons learned from deployment. Open to all attendees.

### **Clean and Renewable Energy Cluster Efforts in Alaska**

Chair: Brian Holst Juneau Economic Development Council

Egan

The Alaska Forward Clean Energy and Southeast Alaska Renewable Energy Seed Cluster Working Groups will host a meeting to share information about the industry cluster development processes and action initiatives that they are working on. The groups will look for areas of collaboration. The meeting is open to all conference attendees interested in supporting the further development of clean/renewable energy industry in Alaska. Open to all attendees.

7:30 **Sustain Angoon Documentary Video**

Chair: Dan Lesh & Angel Drobnica

Hammond

An exploration of village energy issues and potential small scale renewable energy and energy efficiency solutions based on a demonstration project completed in Angoon in 2010 .

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### Plenary Session 2

8:00 **Utilities Making Decisions** Chair: Sara Fisher-Goad Alaska Energy Authority Sheffield 2-3

Many of Alaska's electric utilities have faced uncertain and challenging conditions in recent years due to fluctuating and increasing energy costs; changes in funding opportunities from such sources as the Denali Commission, the state legislature and Congress; climate change impacts on communities like Shishmaref and Kivalina; and widely varying load forecasts due to changes in demographics, and economic and industrial development. In this session, utility managers from a variety of Alaskan utilities will discuss the challenging decisions they have faced and how they have dealt with them.

Presenters:

Jodi Mitchell	Tim McLeod	Meera Kohler
Inside Passage Electric Cooperative	Alaska Electric Power & Telephone	Alaska Village Electric Cooperative

10:00 Break (Sponsored by Cooperative Extension Service)

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### Technical Session 3 (Choose One)

10:30 **A. How Policy Drives Energy Development** Chair: Chris Rose Renewable Energy Alaska Project Sheffield 2-3

Alaska faces an uncertain future with declining oil production and increasingly volatile energy costs that can be devastating to our communities. A strong, forward-looking energy policy lays the foundation for building a solid economic future. This session will look at Alaska's energy policy to-date, how it has worked and what efforts yet need to be made.

Presenters:	Sandra Moller Alaska Energy Authority	Cady Lister Information Insights <i>'EE Codes and Standards'</i>	Sara Fisher-Goad Alaska Energy Authority <i>'The PCE Program'</i>
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**B. Diesel Engine Efficiency** Chair: Alan Feters Alaska Energy Authority

Rural Alaska still relies on the diesel engine as its main energy source for producing electricity. Improving diesel efficiency is one of the most cost-effective strategies with the shortest payback. Egan

Presenters:	Brian Gray Alaska Energy & Engineering <i>'Diesel Heat Recovery'</i>	David Lockard Alaska Energy Authority <i>'Impact of Renewables on Diesel Efficiency'</i>	Bob Havemeister Alaska Energy Authority
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### Technical Session 3 *Continued*

10:30

#### **C. Geothermal Project Update**

Chair: Peter Crimp

Alaska Energy Authority

Hickel

With the state's significant resource potential, geothermal energy continues to pique the interest of many Alaskan communities. During this session you will hear from experts exploring new exploration techniques and community leaders working towards geothermal projects. Researchers will also discuss critical techniques for managing different geothermal resources for long term sustainability.

Presenters:

Gwen Holdmann  
Alaska Center for  
Energy & Power

Mathew Bereskin  
City of Akutan

Jo Mongrain  
Geophysical Institute -  
UAF

*'Pilgrim Hot Springs'*

*'Akutan Geothermal Project'*

*'Reservoir Management and  
Modeling'*

#### **D. Visualizing Energy Information and Projects Using GIS**

Chair: Sean Skaling

Alaska Energy Authority

Hammond

This session will explore some robust energy-related Geographic Information Systems (GIS) resources.

Presenters:

Matt Lindberg &  
Cory Smith  
RDI, Inc.

Emily Binnian &  
Audrey Alstrom  
Alaska Energy Authority

Pete Hickman  
Geographic Information  
Network of Alaska

*'Alaska Energy Efficiency  
Map Project: Visualizing  
Energy Projects through  
GIS'*

*'Exploring Historical  
Hydropower Investigations'*

*'Alaska Energy Data  
Inventory Update'*

Noon    Lunch

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12:30

### Special Presentation: Unintended Consequences

Sheffield 2-3

Chair: Chris Rose      Renewable Energy Alaska Project

Consumers do not always use energy the way producers expect them to, which can result in large negative consequences for utilities and consumers. This session will provide examples of unintended consequences from around the state, and discuss how and why they are important to take into account in energy planning.

Presenters:	Scott Willis	Meera Kohler
	Alaska Electric Light & Power	Alaska Village Electric Cooperative

### Technical Session 4 (Choose One)

1:30

#### A. Feasibility Studies: Lessons Learned

Chair: David Lockard      Alaska Energy Authority

Egan

This session will address what makes for a good feasibility study, what to avoid, and examples of things that are commonly overlooked. It will draw primarily on recent experience in AEA's Renewable Energy Program.

Presenters:	Peter Crimp	Audrey Alstrom	Brian Gray	Thomas Deerfield
	Alaska Energy Authority	Alaska Energy Authority	AK Energy & Engineering	Dalson Energy, Inc
	<i>'RE Fund Experience with Feasibility Studies: The Good, the Bad, the Unfunded'</i>	<i>'Hydro Feasibility Studies'</i>	<i>'Commonly Overlooked Diesel Integration Impacts'</i>	<i>'Biomass Feasibility Study Paths to Success'</i>



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### Technical Session 4 *Continued*

1:30 **B. Grid Integration and Power Quality** Chair: Chris Mello Alaska Energy Authority Hammond

This session deals with the challenges of integrating alternative energy sources into a diesel power generation system while managing the quality of the power.

Presenters:	Darren Scott	Alan Feters, Kris Noonan, and Bob Havemeister	Brent Petrie
	Kodiak Electric Association	Alaska Energy Authority	Alaska Village Electric Cooperative
	<i>'Integration of Wind, Hydro &amp; Diesel at KEA'</i>	<i>'Wind/Diesel Integration at Unalakleet'</i>	<i>'Wind/Diesel Integration at Various AVEC Locations'</i>

**C. Hydropower - The Big Elephant in the Renewable Energy Room** Chair: Doug Ott Alaska Energy Authority Hickel

Discussions of small and large hydropower projects, with plans for future expansions and efficiencies.

Presenters:	Gary Hennigh	George Hornberger	Julie Dirks	Corry Hildebrand & Alvin Endenshaw
	City of King Cove	I-N-N Electric Coop	City of Atka	Reynolds Creek Project Manger/ Haida Energy
	<i>'3rd Decade of Hydro in King Cove'</i>	<i>'Tazimina Power Plant Optimization'</i>	<i>'The Challenge of Constructing the Akta HydroPower Plant'</i>	<i>'Reynolds Creek Hydroelectric Project'</i>



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### Technical Session 4 *Continued*

1:30 **D. Heating Opportunities - Beyond Biomass** Chair: Jason Meyer Alaska Center For Energy & Power Sheffield 2-3

This session will explore heating technologies besides biomass for both residential and commercial application. Discussion will include ground source heat pumps (GSHPs), solar thermal systems, utilizing wind for heat and the principles of waste heat recovery and district heating.

Presenters:	Colin Craven	Jim Norman	Dave Sjoding	Tobias Schworer
	Cold Climate Housing Research Center	ABS Alaska	Clean Energy Application Center	Institute of Social and Economic Research
		<i>'Solar Thermal Systems'</i>	<i>'Waste Heat Recovery'</i>	<i>'Economics of Wind for Heat'</i>

3:00 Break Sheffield 1



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### Technical Session 5 (Choose One)

3:30

#### **A. Developing Energy Projects - A Village Perspective**

Chair: Brian Hirsch National Renewable Energy Laboratory

Sheffield 2-3

This session will explore some of the unique challenges, opportunities, and accomplishments of residents and local governments developing energy projects in rural Alaska.

Presenters:	Chief Robert Keith	Jess Dilts	Nathan Hill	Julie Dirks
	Elim - Kawerak	Hydaburg Housing Authority	Kokhanok Village Administration	City of Atka

#### **B. Hydrokinetics Update**

Chair: Jason Meyer Alaska Center for Energy & Power

Egan

Hydrokinetic energy has received significant attention in Alaska over the past several years, as many of Alaska's rural communities are located adjacent to a major body of water. Taking advantage of the energy available in flowing water - whether from a river or tidal current - has resulted in a number of ongoing and planned demonstration projects. This session includes updates from several project in active development that are using very different strategies for extracting energy from moving water, as well as a presentation on preliminary results from a statewide in-river resource assessment.

Presenters:	Ryan Tyler	Steven Selvaggio	Tom Ravens
	Ocean Renewable Power Company	Whitestone Power & Communications	University of Alaska Anchorage
	<i>'Progress Update on the Nenana and RivGen Commercialization Project'</i>	<i>'HK Device -Permit Testing and Potetial Sites'</i>	<i>'Statewide HK Assessment '</i>



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### Technical Session 5 *Continued*

3:30

#### **C. Transmission Project Challenges**

Chair: Dave Carlson Southeast Alaska Power Agency

Hammond

The emphasis of this session will be on important design, permitting, constructability and other considerations that need to be identified and addressed up front before taking a transmission line to construction.

Presenters:	Eric Eriksen	Del LaRue	Brent Petrie	Dean Scott
	Alaska Electric Light & Power Company	Dryden & LaRue, Inc.	Alaska Village Electric	Commonwealth Associates
	<i>"Are you ready...when things really go bad?"</i>	<i>'Critical Factors in Transmission Line Design'</i>	<i>'Cooperative; Challenges with T-Lines'</i>	<i>'The role of Swan-Tyee Interie Construction'</i>

#### **D. Regional Energy Efficiency Planning and Implementation**

Chair: Rebecca Garrett Alaska Energy Authority

Hickel

Regional planning brings economies of scale to some of the more rural areas of the state. AEA is actively working with several regions to develop regional energy plans that will lead to reducing the long term cost of power and heat. This session specifically focuses on the role of energy efficiency and regional plans that are coming together or that are actively working around the state.

Presenters:	Sean Skaling	Ingemar Mathiasson	Kevin Harper	Elaine Brown
	Alaska Energy Authority	Northwest Arctic Borough	Black and Veatch	Nuvista Light & Power
	<i>'From Energy Pathways to Energy Plan: How Regions Can (and Should) Plan their Energy Efficient Future'</i>	<i>'Looking Back - Going Forward; an Energy Perspective'</i>	<i>'The Southeast Alaska Regional Integrated Resource Plan and the Role of Energy Efficiency'</i>	

6:00

#### **EVENING RECEPTION**

Energy Education Reception at the Juneau Arts & Humanities Conference  
Light hors d'oeuvres served. Sponsored by ACEP. (Located next door to Centennial Hall)



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### **Hydroelectric Working Group Session:**

Chair: Doug Ott Alaska Energy Authority

Hickel

Topics of interest to the hydropower community will include a presentation on AEA's new geohydro website for accessing hydro reports, a primer on Roller Compacted Concrete (RCC) and a discussion on licensing of hydro projects. The session is open to anyone interested in hydropower in Alaska. Open to all attendees.

### **Alaska Geothermal Working Group Session**

Chair: Gwen Holdmann Alaska Center for Energy & Power

Egan

Familiarize the working group with all projects and prospective projects in the state. Identify key barriers common to many or all projects (permitting, technical expertise, exploration drill rigs, etc. and come up with a plan for addressing those barriers. Organize and make available to all stakeholders the relevant resources (past feasibility studies for examples, list of consultants and contractors who have performed well, potential funding sources, list of etc.) Open to all attendees.

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# 2011 Rural Energy Conference

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### Plenary Session 3

8:00 **Thinking as a Region Case Study - Southeast Integrated Resource Plan** Chair: Robert Venables Southeast Conference Sheffield 2-3

The Alaska Energy Authority has worked this year with southeast communities and stakeholders to create an Integrated Resource Plan that addresses the energy needs for electricity, space heat and transportation over the next 50 years. This interactive panel will give an overview of the progress made to date, methods used, and outcomes emerging during this ongoing process.

Jim Strandberg	Kevin Harper	Rick Harris	Dave Carlson	Jodi Mitchell
Alaska Energy Authority	Black & Veatch	Sealaska	Southeast Alaska Power Agency	Inside Passage Electric Cooperative
	<i>'Overview; Anatomy of an IRP'</i>	<i>'Public Process'</i>	<i>'Integrated Planning for the Southeast Alaska Power Agency Region'</i>	

10:00 Break Sheffield 1



# 2011 Rural Energy Conference

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### Technical Session 6 (Choose One)

10:30

#### **A. Energy for Community Health - Food Security, Sewer & Water**

Chair: Jack Hebert Cold Climate Housing Research Center

Sheffield 2-3

The basic necessities for life are: Food, Water and Shelter. We don't need energy in and of itself, we need it to support these basic needs to create healthy communities. Healthy communities are sustainable communities. The cost of energy and the availability of energy is critical for supporting our quality of life.

Presenters:	Dan Boccia	Daniel Consenstein	Robert Tsigonis	Nate Sobeloff
	Alaska Native Tribal Health Consortium	U.S. Department of Agriculture	Lifewater Systems	Sealaska

#### **B. Alternative Fuels**

Chair: Dennis Witmer Energy Efficiency Evaluations

Hammond

While petroleum-generated power and heat are the mainstays in Alaska, many alternative fuel sources are viable options to offset or replace diesel use. This session reviews several fuel options, from traditional to innovative, and their potential applications in Alaska.

Presenters:	Mary Ann Pease	Thomas Deerfield	Ethan Schutt
	MAP Consulting	Dalson Energy	CIRI
	<i>'Propane'</i>	<i>'Biodiesel Refinery (Anchorage)'</i>	<i>'Underground Coal Gasification'</i>



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### Technical Session 6 *Continued*

10:30

#### **C. Looking Beyond Alaska - Global Lessons**

Chair: Nils Andreassen    Institute of the North

Egan

While rural Alaska faces some unique circumstances compared to the rest of the US, there are many countries that are working through or have addressed some of the same challenges we are facing. What lessons can Alaska learn from other nations with similar energy challenges, or similar resources? How could better communication and collaboration benefit Alaska? An Arctic overview is complemented by specific case studies from Canada, Norway, and a summary of the Pacific Island energy challenges and solutions.

Presenters:	Brian Hirsch	Brian Holst	Hector Campbell
	National Renewable Energy Laboratory	Juneau Economic Development Council	Yukon Development Corporation

#### **D. Demand Side Management**

Chair: Tim McLeod    Alaska Electric Light & Power

Hickel

Demand Side Management (DSM) has been a staple of electric utility services in the lower 48 for decades, but it is less common among Alaskan utilities. However, increasing energy costs have required Alaskan utilities to get more creative and DSM is one of the tools in their toolboxes. Come listen to representatives of leading Alaskan utilities discuss the innovative approaches to DSM they are implementing in their service territories.

Presenters:	Scott Willis	Meera Kohler	Jessica Thiesson
	Alaska Electric Light & Power	Alaska Village Electric Cooperative	Yukon Energy

Noon    Lunch

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### **Regional Break-Out Session**

Chair: Sandra Moller

Alaska Energy Authority

Sheffield 2-3

#### **Sponsored by the Denali Commission**

12:30

This final conference event is a one-time opportunity to focus on your region's areas of interest and development ideas. Groups will be defined for the 12 main regional areas of Alaska. If your regional has a low turnout, please feel free to join another region similar to yours. Regional representatives will present discussion points to the Lt. Governor at 2pm. This session is sponsored by the Denali Commission.

2:00

### **Reports to Lt. Governor Treadwell**

Sheffield 2-3

### **Adjourn**

