Cordova **Alaska**

July 26-29, 2022

International technology forum for power system operators and owners

Four-day technical workshop

Plus, Alaska technology tours

VIP access to a range of Cordova's

Innovative Energy Technology Systems

hosts



















Isolated Power Systems Connect Cordova, Alaska

Organizing Committee

Isolated Power Systems Connect is convened by an organizing committee, elected to ensure the venue, program and demonstration projects represent the latest in innovation, as relevant to utility and IPP delegates. The 2022 organizing committee includes:

- Chris Rose, Renewable Energy Alaska Project (co-Chair)
- Gwen Holdmann, Alaska Center for Energy and Power (Co-Chair)
- Stephanie Nowers, KIS Consulting
- Amanda Byrd, Alaska Center for Energy and Power
- Clay Koplin, Cordova Electric Cooperative
- Mariko Shirazi, Alaska Center for Energy and Power
- James Hamilton, BayWa r.e.
- Michael Negnevitsky, University of Tasmania

Cordova Technology Tours - July 28 & 29, 2022

Power Creek and BESS (8:30 am July 28):

Take the opportunity to connect with other participants while you experience the natural beauty and breathtaking scenery of Prince William Sound, Alaska. Tour includes a scenic drive with VIP access to the 6 MW Power Creek run-of-river hydro and the Cordova battery storage system.

Humpback Creek (1 pm July 29):

Take a spectacuclar boat ride through the Cordova Harbor, past hauled out Stellar sea lions, to the beautiful beach landing and hike up the penstock to the 1.25 MW Humpback Creek run-of-river hydro project. See the original 1908 system, and the upgraded 1980s project.

Note: This tour is on Friday and requires an additional night stay in Cordova.





Isolated Power Systems Connect Cordova, Alaska

AGENDA - AT A GLANCE

Tuesday July 26

4:00 Registration

5:00 Evening Reception and Welcome

Wednesday July 27

8:00 Registration opens

8:20 Conference Welcome

9:00 Panel Session 1: Diesel Adaptation and Optimization

11:00 Panel Session 2: Enabling Technologies for Maximum

Renewable Penetration

12:30 Lunch and networking

1:30 Panel Session 3: Alternative Storage Technologies

3:00 Day 2 Recap

4:00 Close

5:30 Evening Dinner

Thursday July 28

8:20 Convene at Cordova Center

8:30 Cordova Power Systems Tours

11:00 Visit CEC Battery Energy Storage System

12:30 Lunch at Cordova Center

1:30 Panel Session 4: The Dynamics of our Future Energy Landscape

3:30 Panel Session 5: Heating & Cooling in Isolated Communities

5:00 Close

Friday July 29

8:00 Panel Session 6: State of Charge on Energy Storage

10:00 Panel Session 7: Knowledge Sharing, Community Engagement and Human Capacity Building

11:30 Lunch and Wrap-up

12:30 Bus departs to airport

1:42 Flight departs to Anchorage

1:00 Humpback Creek Hydro Tour

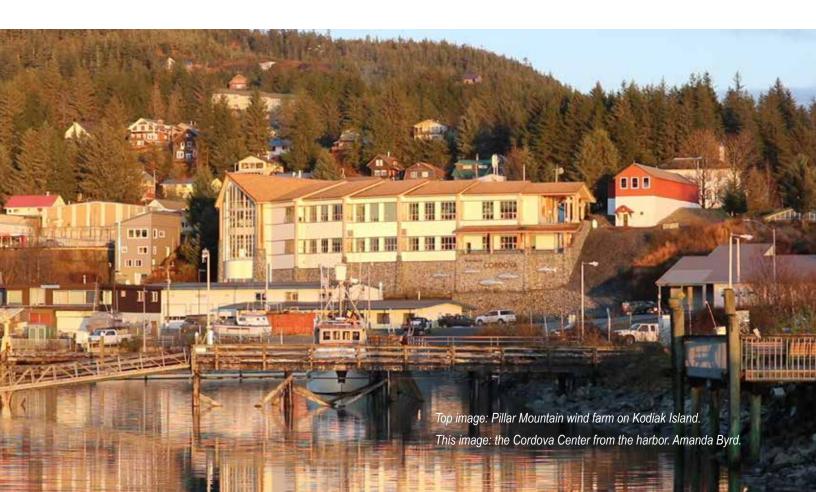


Renewable Energy



4:00 Registration

5:00 Evening Reception and Welcome





Wednesday July 27, 2022 TECHNICAL WORKSHOP & EVENING DINNER

8:00 Registration opens

8:20 Welcome from conference co-chairs
Gwen Holdmann and Chris Rose

8:30 Cordova Welcome Clay Koplin, Mayor of Cordova

8:40 Mark Hoover, Native Village of Eyak

9:00 Session 1: Diesel Adaptation and Optimization

Moderator: Aimie Morgan, Alaska Village Electric Cooperative

ALASKA - Diesel Modernization

Russ Goss - Cordova Electric Cooperative

GREENLAND - Heat Recovery
Niels Erik Hagelqvist - Nukissiorfiit

ALASKA - Retrofitting a Diesel System in Stages

Peter Lilienthal - Alaska Center for Energy and Power

Q&A session

10:30 Coffee and networking

11:00 Session 2: Enabling Technologies for Maximum Renewable Penetration

Moderator: Mariko Shirazi, Alaska Center for Energy and Power

ALASKA -Transforming Data into Actionable Analytics

Jeff Knepper - Canary Labs

ALASKA - Thermal Utilization

Dennis Meiners - Intelligent Energy Systems

ALASKA - Subsurface Transmission and Distribution Lines

Peter Larsen - Lawrence Berkley National Lab

Q&A session

12:30 Lunch and networking

1:30 Session 3: Alternative Storage Technologies

Moderator: Annalise Klein, Alaska Center for Energy and Power

INTERNATIONAL - Vehicles to Grid Technology Shawn Heurtevant - Hitachi Energy

CANADA - Hydrogen Fuel Cell and Flywheel Kristina Hamernik - Raglan Mine

Q&A session

3:00 Day 2 Recap

4:00 Close

5:30 Evening Dinner





Thursday July 28, 2022 TECHNOLOGY TOUR and TECHNICAL WORKSHOP

EMERGENT ENERGY FUTURES

8:20 Convene at Cordova Center

Cordova Power Systems Tours

Host: Clay Koplin and CEC Staff

8:30 Drive to Power Creek Hydro Project

11:00 Visit CEC Battery Energy Storage System

12:00 Return

12:30 Lunch at Cordova Center

Afternoon Panels

1:30 Session 4: The Dynamics of our Future Energy Landscape

Moderator: Gwen Holdmann, Alaska Center for Energy and Power

ALASKA - Global Microgrid Market and Policy
Peter Asmus - Alaska Center for Energy and Power

ALASKA - NW Arctic Independent Power Producers Ingemar Matthiason - Northwest Arctic Borough

ASIA - Electrification of Emerging Markets

Mark Glick - Hawai'i Natural Energy Institute

ALASKA - Marine Energy

Ben Loeffler - Alaska Center for Energy and Power

Q&A session

3:00 Coffee and networking

3:30 Session 5: Heating & Cooling in Isolated Communities

Moderator: Bruno Grunau, National Renewable Energy Lab

ALASKA - Air Source Heat Pumps

Robbin Garber-Slaght - National Renewable Energy Lab

CANADA - Electric Thermal Storage

Michael Ross - Yukon Research Centre

ALASKA - Heating Loads with Diesels Off

Bailey Gamble - Alaska Native Tribal Health Consortium

Q&A session

5:00 Close



Friday July 29, 2022 TECHNICAL WORKSHOP

EMERGENT ENERGY FUTURES

8:00 Session 6: State of Charge on Energy Storage

Moderator: Clay Koplin, Cordova Electric Cooperative

AUSTRALIA - Living With SETuP

Jeff Adams - Power and Water Corporation

ALASKA - Grid-Bridging

Bill Thomson - Alaska Village Electric Coop

HAWAII - Battery Response Rates

Kevin Davies - Hawai'i Natural Energy Institute

USA - Standards for Facilitating Grid Integration
Charlie Vartanian - Pacific Northwest National Lab

Q&A session

9:30 Coffee and networking

10:00 Session 7: Knowledge Sharing, Community Engagement and Human Capacity Building

Moderator: Chris Rose, Renewable Energy Alaska Project

ALASKA-CANADA-ICELAND - ARENA **Gwen Holdmann - Alaska Center for Energy and Power**

ALASKA - Analyzing Utility Systems

Dan Borneo - Sandia National Laboratory

SOUTH PACIFIC - Knowledge Sharing in the Pacific Islands **Abraham Simpson - Pacific Power Association**

ALASKA - ANEEE
Chris McConnell - Renewable Energy Alaska Project

Q&A session

11:30 Lunch and Wrap-up

12:30 Bus departs to airport

1:52 Flight departs to Anchorage

Afternoon Tour - Humpback Creek Hydro

Boat departs Cordova Harbor

