

Small Hydro and Technical Workshop

August 21-22 Bend, Oregon

Wednesday August 21- Technical Workshop

8:00 AM - NWSHA Welcome, Introductions, Housekeeping, Safety

8:15-9:15 AM - Hydro Safety

- Electrical Safety Awareness including Arc Flash Hazards - OS Engineering, Waylon Bowers
- Standardization and best practices

9:15-10:15 AM - Remote Operation

- Less staff = more remote operations = more automation. What new technology is helping – Phoenix Malm Engineers, Cliff Malm / John Claybrook
- Grid Stability, Responding to Events on the Grid, Frequency Control, what you need to know - Nancy Kroner, Versalence
- SCADA Systems for Remote Plant Operations – ABB

10:15-10:40 AM - Coffee Break

10:40-11:45 AM - Dam Safety

- Prioritization of State Water Project Spillway Inspections” – David Sarkisian, DWR
- Low level outlets, Valves for Water In, Out and Under control – Jonathan Meier, Unico Mechanical
- Pre-flood Checklist Discussions - Nathan Rockwood, Meadhunt

11:45 AM-12:30 PM - Hydro Operations

- Dispatching – Eugene Water and Electric Board
- Governor Controls, 101 degrees in El Centro – Roger Clark-Johnson, American Governor

12:30-1:30 PM - Lunch

1:30-3:00 PM - Hydro Technical

- Current Affairs: Maintaining Your Generator Investment – Jason Kapelina, WEG
- To Rewind or Repair: Options for Dealing with Less-Expected Outages – Fred Dawson, National Electric Coil
- Protecting Power Plant Assets with Coatings – John Reiser, Sherwin Williams

3:00-3:30 PM - Break

3:30-4:30 PM - Hydro Case Studies

- New Techniques for Turbine Runner Repair – Tacoma Power
- Case study #2- (real problems at real sites with real solutions) – Darren Wager, Gilkes

4:30 - 5:00 PM

- Ask the Experts Round Table – Presenters available for questions, discussing hot topics

5:00-5:05 PM - Conclusion of business

Thursday August 22 – Small Hydro Workshop

8:00 AM - Registration and Continental Breakfast

8:15 AM - NWA Welcome, Introductions, Housekeeping, Safety

8:30-9:15 AM - Hydro 101

- Learn about the history of waterpower
- Differentiation on the types of hydropower
- Examples of modern hydropower projects in Oregon

9:15-10:00 AM - Hydropower Technologies

- Fish Passage
- Turbine Technologies
- Novel powerplant arrangements

10:00-10:15 AM - Coffee / Networking Break

10:15 - 11:00 AM - Hydro's Market Value

- What is the economic value that hydropower provides for the project owner?
- What is the value to the local communities?
- What value does hydropower play to the electric grid?
- What is the value of hydropower to a buyer?

11:00 AM-12:30 PM - How to Buy and Sell Hydro

- Buyer and Seller's Checklist and Process
- Methods to Procure Hydropower (Existing IOU / Co-Op offerings, PURPA-compliant tariffs, Direct Access, Virtual Power Purchase Agreements, Community Choice Aggregation)
- How to connect with Buyers and Sellers of Small hydro

12:30-12:45 PM - Brown-Bag Lunch and Load Busses

12:45-5:00 PM - Project Tours to Three Sisters and Central Oregon Irrigation Districts

5:00 PM - NHA Reception or Small Hydro Networking Reception for Buyers and Sellers