



SMALL HYDRO WORKSHOP

Riverhouse Convention Center, Bend, Oregon

September 22nd (Thursday)

8:00 Opening Remarks/Welcome

Patti Kroen, KROEN Consulting, NWAHA President

8:15-10:00 National Resource Assessment

Moderator: Steve Johnson, Chair, Deschutes Basin Board of Control
Manager, Central Oregon Irrigation District

- Brennan Smith, Program Manager – Wind & Water Power Technologies, Oak Ridge National Energy Lab, National Energy Assessment for Hydropower
- Michael Gabaldon, Director of Technical Resources, Bureau of Reclamation Reclamation's Assessment of Hydropower Projects in the West
- Mark A. Parrish, Hydropower Analysis Center, Army Corps of Engineers Corps Hydropower Assessment

The federal agencies have conducted assessments of hydropower potential and will present a summary of the project analyses and discuss future planning and implementation efforts. Reclamation will address pending policies such as "lease of power privilege".

10:00-10:30 Break

10:30-12:00 Deschutes Basin Integrated Opportunity Assessment

Moderator: Tod Heisler, Executive Director, Deschutes River Conservancy

- Gary Johnson, Research Scientist, Pacific Northwest National Laboratory
- Steve Johnson, Chair, Deschutes Basin Board of Control (7 irrigation districts)
- Julie Keil, Director of Hydro Licensing, Portland General Electric
- Kate Miller, Oregon Water Counselor, Trout Unlimited

The Deschutes basin has been selected as the first pilot river basin nationally to examine opportunities for hydropower growth while simultaneously promoting environmental enhancement. This is a collaborative study project between federal agencies and stakeholders, funded by the U.S. Department of Energy with the ultimate aim to develop a strong process by which opportunities in a river basin can be identified and analyzed, providing good scientific data and information, as well as developing best practices for a process that then may be applied to future basin-scale projects. An "opportunity assessment technical toolbox" will be a deliverable of the process, as well as implementation of a modeling process.

12:00-1:30 Lunch provided - Networking

1:30-3:00 **Revenue Incentives**

Moderator: John Lowe, Renewable Energy Coalition

- Tom Nelson, Owner, Thomas H. Nelson and Associates
Developing power sales agreements, working with the PUC, EIA filing
- Marlys Palumbo, Partner and Attorney, Van Ness Feldman, PC
RPS Policies in the Northwest
- Ben Rees, Vice President, Renewable Energy Markets, Evolution Markets
Brokering TRECs, RPS markets and policy – Northwest and California
- Gary Marcus, President, Falls Creek Hydroelectric Project
TRECs, RECs, WREGIS reporting, Low Impact Hydro Institute certification--from an owner's perspective

Explore how Power Sales Agreements (PSAs), Renewable Energy Credits (RECs) and Tradable Energy Credits (TRECs) determine the financial viability of a project. What has been the effect of Renewable Portfolio Standards (RPS) legislation in the Northwest?

3:00-3:30 **Break**

3:30-5:00 **Financing Small Hydro**

Moderator: Jim Holeman, The Louis Berger Group

- Mark Matousek, Founder and Vice Chairman, Orenco Hydropower
Working with a private financier from the financier's perspective
- David Filippi, Partner and Attorney, Stoel Rives LLP
Negotiating with a private financier on behalf of a public entity
- Bill Eddie, President, OneEnergy Renewables
US Department of Energy programs and other finance opportunities
- Jed Jorgensen, Sr. Renewable Energy Project Manager, Energy Trust of Oregon
State incentive programs

With reductions in federal and state incentive programs, how are projects funded in today's economy? What is the role of private financing and the experience with developing and implementing privately funded financial agreements? What programs does the U.S. Department of Energy offer? How do tax credits and other incentives add to the viability of a project?

5:00-6:30 **Brewery Social**

Day 2: September 23rd (Friday)

8:15 **Welcome**

National Small Hydro Council Update – Gia Schneider, Council Chair

Remarks on council subcommittee issues: streamlining, water quality, finance

8:30-10:00 **Interconnection**

Moderator: Gia Schneider, CEO, Natel Energy

- Aleka Scott, V.P. Transmission and Contracts, Pacific Northwest Generating Cooperative
Interconnection contracts with REA Coops

- Laura Raypush, Transmission Account Manager, PacifiCorp
Interconnection contracts with investor-owned utility
- Eric Taylor, Transmission Account Executive, Bonneville Power Administration
Interconnecting direct with BPA
- Steve Anderson, Owner/Principal, Evergreen Energy Corporation
Working through the interconnection process

Interconnection to a utility transmission system is a major factor in project development. Issues such as the cost of wheeling, how interconnection can be done economically at the site itself and how to work with utilities to achieve interconnection agreements and maintenance contracts can be cumbersome and can make or break project viability. Explore how to work in this arena and share the experience from the perspective of both the utility and the project developer.

Interconnection Handbook developed by Energy Trust of Oregon:

http://energytrust.org/library/reports/100908_interconnection_Guidebook.pdf

10:00-10:30 **Break**

10:30-12:00 **New Small Hydro Technologies**

Moderator: Patti Kroen, KROEN Consulting

Gia Schneider, CEO, Natel Energy

Bruce Sellars, Regional Sales Representative, Mavel Americas, Inc.

Eli Lamb, Managing Director of Hydrovolts, Oregon and Burt Hamner, Founder and CEO of Hydrovolts

Josh Kanagy, Director of Business Development, Lucid Energy

Virtual tour of new, innovative installations

Noon **Adjourn**