



## LOW IMPACT HYDRO WORKSHOP

September 22<sup>nd</sup> (Wednesday)

**8:00 Opening Remarks/Welcome**

Patti Kroen, KROEN Consulting, NWAHA President

**8:15-10:00 Incentives: How Do I Pay for the Project?**

Moderator: Steve Johnson, Central Oregon Irrigation District

- Federal Financial Programs – Mary Jo Miller, Stoel Rives LLC  
*U.S. Department of Energy Programs, CREBs, other incentives*
- Oregon Department of Energy Programs – Kathy Estes, Department of Energy  
*Small Energy Loan Program (SELP), Business Energy Tax Credit (BETC), CREFF*
- Energy Trust of Oregon Incentive Programs – Jed Jorgensen, Hydro Division Manager  
*Ratepayer funding for feasibility studies, project development*
- Green Credits – Gary Marcus, Frontier Technology  
*RECs/TRECs, RPS Incentives, Low Impact Hydropower Institute*

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

**10:30-12:00 Streamlining the FERC Process**

Moderator: Allison Murray, Kleinschmidt

- FERC Small Hydro Work Group - Shana Murray, Lead, Small Hydro Work Group, FERC
- Colorado's Streamlining Process Agreement with FERC - Francisco Flores, Colorado Governor's Energy Office
- Streamlining the FERC Process – Gia Schneider, Natel, Small Hydro Council
- Workbooks for FERC Procedures & Needs for Process Streamlining - Jed Jorgensen, Energy Trust of Oregon

Audience Roundtable – Discussion of Issues and Possible Solutions

12:00-1:15 **Lunch provided - Networking**

**1:15-2:45 Regulatory Issues**

Moderator: Patti Kroen, KROEN Consulting

- NW Power & Conservation Council - Peter Paquet  
*Columbia River Basin Fish & Wildlife Program, "Protected Areas"*
- US Forest Service – Kristine Bonanno and Dean Grover  
*Working with project owners—what USFS needs for your success*
- Role of Water Quality and other Permitting – Dave Filippi, Stoel Rives
- The Land Use Gorilla –Wendie Kellington, Land Use Attorney  
*Role of land use siting in project development*

2:45-3:15 **Break**



### 3:15-4:45 **Project Snapshots**

Moderator: Finlay Anderson, Long View Associates

- Projects at Existing Dams - Mike Pulskamp, Bureau of Reclamation, Denver  
*Working with Reclamation at existing dams sites; studies and grant program pending*
- Retrofits and Incremental Additions – Geoff McCavitt, MWH  
*Partial project replacement, upgrades*
- Societal Benefits - Jay Maher, Kleinschmidt  
*Water conservation, clean energy, pressurized systems, and additional project benefits*
- Development and Construction Issues - Norm Bishop, Sr. Vice President, Hydropower & Renewable Energy, Knight Piesold Consulting

*Bringing a project to fruition – from conception through successful completion*



### 5:15 – 6:45 **Social**

Offsite “Happy Hour – Networking” function at the Deschutes Brewery--participants will carpool [**Deschutes Brewery – Mountain Room – 901 S.W. Simpson, Bend**]

## Day 2: September 23<sup>rd</sup> (Thursday)

8:15 **Introductory remarks:** Michael Manwaring, MWH Global

### 8:30 – 10:00 **Innovative Concepts/Equipment**

Moderator: Michael Manwaring, MWH

- Natel in-river turbine/generator - Gia Schneider  
*Installation Arizona and pending projects – turbine in river or canal*
- Hydrovolts Turbine/Generator – Eli Lamb, Hydrovolts  
*Roza Irrigation District project, Washington – flipwing floating turbine in canal*
- Lucid Technologies – Tim Braun  
*Partnership of Northwest Pipe and Lucid – generator/turbine in pipeline*
- New Energy Corporation – Andrew Walls  
*Encurrent turbine—grid connected instream & tidal hydrokinetic installations*



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

### 10:30-11:45 **Pre-Tour Discussion**

#### ***New Conduit Exemptions***

Moderator: Jan Lee, Executive Director, NWHA

- Suzanne Butterfield, Manager, Swalley Irrigation District  
*New .75 MW project, conduit exemption*  
--\$14 million project with 5 mile pipeline, ¼ of water right returned to river, federal stimulus dollars – grants, incentives, regulatory issues
- Steve Johnson, Manager, Central Oregon Irrigation District  
*New 3 MW project expandable to 5 MW*  
--\$22 million project with 3 mile pipeline, interesting mix of finance, loans, incentives; return water to river as permanent instream water right



This is a pre-introduction to the tour of the two facilities. **Adjourn 11:45** - check in for tour, pick up lunches, load buses. **Tour leaves at 12:15 – returns 2:00 p.m.**