

Spring 2019 WORKSHOP – Hydro Productivity Committee

April 7 – 10, 2019
St. Petersburg, Florida

Monday, April 8, 2019

8:00 a.m. – 9:30 a.m. General Session: Executive Welcome & Keynote Speaker

9:30 a.m. – 10:00 a.m. Break

10:00 a.m. – 11:15 a.m. HP-01: Introductions and Business Updates/Address from HPC Chairman

Chris Utracki, Ontario Power Generation, Hydro Productivity Committee Chair

Introductory session will give new members the opportunity to introduce themselves and their companies, and for all members to share any business updates and “headline news” happening at their companies. The Committee welcomes three new member companies and our new members will have the opportunity to present their company business profiles.

11:15 a.m. – 12:00 p.m. HP-02: Study of the Costs of Cycling Operations at Seattle City Light

Marcus Cunningham, Seattle City Light (SCL)

As renewable energy resources contribute additional capacity to support the electric grid, different operational modes result. Since hydropower units are very adaptive to changing load requirements, their operation becomes more cyclic. Utilities are concerned about the impact of this change on equipment health and maintenance costs. Mr. Cunningham will talk about the work SCL has undertaken to determine these impacts and the associated expenditure forecasts.

12:00 p.m. – 1:00 p.m. Lunch Break

1:00 p.m. – 1:45 p.m. HP-03: Enterprise & Project Management at Grand Coulee Dam

Clark Bishop, United States Bureau of Reclamation (BoR)

For the past several years, the BoR has been implementing several unit upgrades and equipment replacements at Grand Coulee Dam. Mr. Bishop will talk about the techniques and processes utilized to manage these projects.

1:45 p.m. – 2:45 p.m. HP-04: Small Hydro Divesture Program at Pacific Gas & Electric

Stephanie Maggard, Pacific Gas & Electric (PG&E)

Due to changes in the California electric market, PG&E has been evaluating the economic viability of its fleet of hydropower resources. Ms. Maggard will provide insight into the process used and some of the results along with the actions taken to date.

2:45 p.m. – 3:00 p.m. Break

3:00 p.m. – 4:00 p.m. HP-05: HPC 2018 Annual Report Draft Review and Discussion

Gbadebo Oladosu, Jim Miller and Matthew Weathers, Oak Ridge National Laboratory (ORNL)

During this session the draft 2018 HPC Annual Cost and Performance Report will be reviewed. HPC members will be afforded an opportunity to ask questions and provide comments and suggestions for the final edition.

Also, Mr. Weathers will present background of some more interesting analyses he has done on cost and performance data.

Tuesday, April 9, 2019

8:00 a.m. – 9:15 a.m. HP-06: Capital Investment vs Depreciation

Greg Bosscawen, Pacific Gas & Electric; Patrice Blais, Hydro Quebec

Since 2010, EUCG's Hydroelectric Productivity Committee has been collecting plant level Asset Value and Depreciation data. Messrs. Bosscawen, PG&E and Blais, HQ will discuss use of such data by their respective companies.

9:15 a.m. – 9:45 a.m. HP-07: Remote Operations / Impact on Plant Operation, Maintenance and Administrative (OMA) Expenses & Performance survey results

Rob Mager, Ontario Power Generation (OPG)

Earlier this year, a survey was conducted to examine additional operating expenditures incurred by remote plants. Mr. Mager will sum up the responses received and provide additional insights based on regression analyses. He will also discuss the methodology and comment on how to improve value of the information obtained from this survey.

9:45 a.m. – 10:00 a.m. Break

10:00 a.m. – 11:00 a.m. HP-08: Hydropower Fleet Intelligence – Use Case 1 Overview

Gbadebo Oladosu, ORNL

The Hydropower Fleet Intelligence (HFI) project is sponsored by the Department of Energy and addresses multiple challenges that arise within strategic analysis for hydropower asset decision-making. Those challenges include definitions, data availability, data quality, data alignment, parameterization of asset models, determination of parameter values, analysis of uncertainties, and interpretation of results by analysts and decision-makers. Dr. Oladosu will discuss this project, in particular the Use Case 1, which will examine the effects of variable operations of hydropower units in the electric grid with an increasing participation from renewable resources.

**11:00 a.m. – 12:00 p.m. HP-09: Asset Information Turnover at Chelan Public Utility District
Janel Ulrich, Chelan Public Utility District (Chelan PUD)**

Chelan PUD is in the midst of executing equipment replacement program. Ms. Ulrich will discuss business case analysis associated with this program.

12:00 p.m. – 1:00 p.m. Lunch

**1:00 p.m. – 2:00 p.m. HP-10: Utilization of EUCG Data by Member Companies
Patrice Blais, Hydro Quebec, Greg Bosscawen, PG&E**

The HPC cost and performance database and ad hoc surveys comprise a unique resource for utility members to use within their business and operational planning. Messrs. Blais and Bosscawen will summarize the utilization of the HPC information within their utilities.

**2:00 p.m. – 2:45 p.m. HP-11: Major Outage Survey - Preliminary Results
Jim Miller, Oak Ridge National Laboratory**

Since the 2018 Fall Workshop, several HPC members have developed a survey on the scope, processes, resources and results of major unit outages within their facilities. The survey was forwarded to the entire HPC and a number of responses have been received. The preliminary results observed to date will be discussed. More responses are needed and the plan is to finalize it at the upcoming fall workshop.

2:45 p.m. – 3:00 p.m. Break

**3:00 p.m. – 4:00 p.m. HP-12: Review of Updates to HPC Data Guide and Reporting Instructions &
Response to Questions
David Sanna, United States Army Corps of Engineers (USACE)**

The HPC Data Guide is the reference utilized by HPC members for their submission of cost and performance data. As the guide is used by HPC members, questions arise and are discussed at the Data Review Meetings. Any items that require clarification are forwarded to Mr. Sanna, HPC Vice Chair who serves as the Data Guide's editor. Any revisions to the guide are made annually with updated versions issued in January or February of each year. Mr. Sanna will review the most recent revisions to the guide that was issued this year. This session will be a good opportunity for HPC members to raise any questions about the definitions and interpretations of data elements required in data submissions.

Wednesday, April 10, 2019

8:00 a.m. – 8:30 a.m. HP-13: 2019 Hydro Business Unit Safety Survey

Jim Miller, Oak Ridge National Laboratory

Since 2007, EUCG's Hydroelectric Productivity Committee and the National Hydropower Association Hydraulic Power Committee have been jointly conducting an annual Safety Survey of the hydro industry. The results of the 2019 (2018 data) survey will be provided.

8:30 a.m. – 9:00 a.m. HP-14: Data Review Meeting Plans – July 9-11, 2019, Hydro Quebec Offices, Montreal, QC

Matt Dau, USACE; Patrice Blais, HQ

Mr. Dau will provide an overview of the processes for the peer review and report on the results of the 2018 review. They will also discuss the preparations that each representative should complete prior to the meeting. Utilities will have an opportunity to provide feedback on the outcomes of 2018 and suggest changes for 2019. The meeting location and logistics will be discussed by Mr. Blais.

9:00 a.m. – 9:45 a.m. HP-15: 2019 Fall Conference and Workshop Agenda Planning

During this session we will develop the initial agenda for the fall 2019 HPC meeting which will be held in New Orleans, Louisiana September 15 – 18, 2019. Please come prepared to suggest topics that you would like discussed or where you have something to share with the rest of the committee.

9:45 a.m. – 10:15 a.m. Break / Check-out

10:15 a.m. – 10:45 a.m. HP-16: HPC Business Report

Chris Utracki, OPG, HPC Chairman

During this session we will discuss Committee's business matters.

10:45 a.m. - 11:15 a.m. HP-17: HPC Roundtable & Action Item Review

Chris Utracki, Ontario Power Generation, HPC Chairman

During this time, HPC members will be afforded the opportunity to share their feedback on the workshop. Also, any action items taken during the workshop will be reviewed with the responsible committee member and due dates noted.

11:15 a.m. – Noon

HP-18: HPC Leadership Meeting

Chris Utracki, OPG, HPC Chairman

The HPC leadership utilizes this opportunity to discuss HPC internal matters and is open to all HPC members.