

**Spring 2024 Workshop
Hydroelectric Productivity Committee
Hilton St. Petersburg Bayfront
St. Petersburg, Florida
April 14 – 17, 2024**

Monday, April 15, 2024

8:00 a.m. – 9:00 a.m. Breakfast

9:00 a.m. – 10:30 a.m. General Session: Executive Welcome & Keynote Speaker

EUCG General Session & Keynote Speaker

EUCG is honored that Peter Hoeflich, Principal Engineer-Generation and Transmission Strategy at Duke Energy will be welcoming the membership and kicking off our General Session.

Mr. Hoeflich will discuss low-carbon generation and storage technologies. He will provide insights on the Debary Florida hydrogen demonstration which is the first system in the U.S. capable of producing, storing, and combusting 100% green hydrogen in a combustion turbine.

10:30 a.m. – 11:00 a.m. Break

11:00 a.m. – 12:00 Noon

HP-01: Introductions and Business Updates/Remarks from Hydro Productivity Committee (HPC) Chairman

David Sanna, United States Army Corps of Engineers (USACE), HPC Chair

The introductory session will give all members the opportunity to introduce themselves and their companies.

12:00 Noon – 1:00 p.m. HP-02: Dashboard Reporting Tools – Ontario Power Generation

Mary Poulter and Jawad Hussain, Ontario Power Generation (OPG)

OPG's committee representatives will describe the business objectives and development methodology employed to implement a new set of reporting tools within their company.

1:00 p.m. – 2:00 pm. Lunch

2:00 p.m. – 2:30 p.m. HP-03: Utilization of EUCG Hydropower Cost and Performance Data
Dan Hammerquist, Bureau of Reclamation (BoR)
The Bureau of Reclamation has been conducting focus groups with internal users to determine how to make the EUCG hydro cost and performance data more accessible and useful to various user groups. Focus group results and several tools being piloted will be shared.

2:30 p.m. – 3:00 p.m.
HP-04: Utility Portfolio Analysis for EUCG Analytics Solutions
Rob Mager, OPG
An overview of how differences in Utility economies of scale factors impacts the ability to compare Utility performance using a simple indexing approach. Recommendations will be provided on a simplified approach to normalize analysis and improve the comparability of Utility results.

3:00 p.m. – 3:30 p.m. Break

3:30 p.m. – 4:45 p.m. HP-05: HPC Data Reporting Team Update & Discussion,
Clark Bishop BOR, Team Lead
A status update of the team’s activities, recommendations and proposed next steps will be provided.

4:45 p.m. – 5:00 p.m. HP-06: Day Wrap Up & Identification of Topics for Future Workshops
David Sanna, USACE, and HPC Chair
In this time, a review of the day’s presentations will be made and noting any ideas for a future workshop.

6:00 p.m. – 9:00 p.m. Networking Event – Park & Rec, Downtown St. Petersburg

End of Day

Tuesday, April 16, 2024

8:00 a.m. – 9:00 a.m. Breakfast

9:00 a.m. – 10:00 a.m. HP-07: Staffing Survey Form Revision Discussion and Proposed Schedule –

David Sanna, USACE, HPC Chair & Jim Miller, Signal Hydropower Consultants (SHC)

In this session, the existing staffing survey form used to collect responses from committee utilities will be presented. Committee members will have the opportunity to offer revisions to ease the submission process.

10:00 a.m. – 11:00 a.m. HP-08: EUCG – Hydroelectric Productivity Committee (HPC) Annual Report

Gbadebo Oladosu PhD, and Jim Miller Oak Ridge National Laboratory

In this session, the comments received to the draft version of the HPC 2023 Annual Cost & Performance Report will be reviewed and discussed with some items identified for further action.

11:00 a.m. – 11:30 a.m. Break

11:30 a.m. – 12:30 p.m. HP-9: Valuation of Pumped Storage Hydropower Projects

Vladimir Koritarov, Department of Energy, Argonne National Laboratory

The talk will present the methodology for valuation of pumped storage hydropower (PSH) projects that was developed by a team consisting of five national laboratories led by Argonne National Laboratory. The major outcome of this project, which was funded by the DOE's Water Power Technologies Office, is the publication of PSH Valuation Guidebook and two accompanying test case studies. The Guidebook provides the cost-benefit and decision analysis framework that can be used for the valuation of existing or proposed new PSH projects or project upgrades. In addition to the PSH Valuation Guidebook, the project team also developed an online publicly available PSH Valuation Tool, which allows PSH developers and stakeholders to apply the methodology described in the Guidebook for valuation of their PSH projects.

12:30 p.m. – 1:00 p.m. HP-10: Hydropower Staffing Resource Challenges

Aaron Dale, Duke Energy

Staffing is often the largest challenge for many industries and hydropower is no different. Staff that work at these facilities are required to have a large breadth of knowledge and skills but attracting talent can be difficult given the location of facilities and competition for qualified candidates. Hydropower organizations must employ a host of tactics to overcome the

global staffing challenge and ensure the future success of our teams. In this session we will discuss the approach Duke Energy is implementing to address staffing issues within its hydropower organization.

1:00 p.m. – 2:00 p.m. Lunch

2:00 p.m. – 3:00 p.m. HP-11: Preventative Maintenance Program Overview – Pacific Gas & Electric & US Army Corps of Engineers

Dave Bland, PG&E and Matthew Dau, USACE

Mr. Bland will describe the methodology PG&E's Power Gen organization is leveraging in an enterprise-wide effort to migrate to the latest cloud-based version of SAP (S4/HANA) for enterprise resource planning, bounding all Power Gen business processes. The effort will include standardization of data and work models guided by the principle of elimination of customizations in software. During this session, we're excited to share the work we've done to define our future state requirements and outline the roadmap for next steps

Mr. Dau will offer an overview of USACE's preventative maintenance program, focusing on the rollout of the Corps' revised national hydropower Maintenance Standards and the implementation approach for creating Project Maintenance Management Plans (PMMP) for each USACE hydropower site.

3:00 p.m. – 3:30 p.m. Break

3:30 p.m. – 4:30 p.m. HP-12: HPC Membership Recruitment/Marketing Discussion

David Sanna, USACE, and HPC Chair

The HPC leadership will facilitate a discussion on approaches to promote participation, increase value, benefits, and satisfaction with existing committee members. The leadership seeks ideas to promote the value and benefits of committee membership to prospective utilities.

4:30 p.m. – 4:45 p.m. HP-13: Day Wrap Up & Identification of Topics for Future Workshops

David Sanna, USACE, and HPC Chair

In this time, a review of the day's presentations will be made and noting any ideas for a future workshop.

End of Day

Wednesday, April 17, 2024

8:00 a.m. – 9:00 a.m. Breakfast

9:00 a.m. – 9:30 a.m. HP14: 2024 Hydro Business Unit Safety Survey Results

Jim Miller, SHC

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 2024 (2023 data) survey will be provided.

9:30 a.m. – 10:00 a.m. HP-15: HPC Data Guide 2024 Revisions and Questions & Answers on Data Issues

Cristóbal González, Pacific Hydro Chile (PHC), HPC Vice Chair

The revisions made this year to the committee's data collection guide will be highlighted. This session is a great opportunity to ask questions about the data gathering process.

10:00 a.m. – 10:45 a.m. HP-16: 2024 Data Review Meeting Plans

Cristóbal González, PHC, HPC Vice Chair

HPC leadership will provide the arrangements for the current year data review meeting which is scheduled for July. This overview will include the supporting material needed for the meeting and logistics. Time has been allocated for questions about the data review meetings.

10:45 a.m. – 11:00 a.m. HP-17: 2023 Fall Workshop Agenda Planning

David Sanna, USACE, HPC Chair

During this session we will develop the initial agenda for the fall 2023 HPC meeting. Please come prepared to suggest topics that you would like discussed or something to share with the rest of the committee.

11:00 a.m. – 11:30 a.m. Break

11:30 a.m. - 11:45 a.m. HP-18: HPC Roundtable & Action Item Review

David Sanna, USACE, HPC Chair

In this session, 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 noted and due dates given.

11:45 a.m. – 12:15 p.m. HP-19: HPC Leadership Meeting

David Sanna, USACE, HPC Chair

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

Adjournment

Mark Your Calendars: EUCG Fall 2024 Workshop
September 15-18, 2024
Hilton Scottsdale Resort and Villas
Scottsdale, Arizona