

Fall 2022 WORKSHOP
Hydroelectric Productivity Committee
The Peabody Memphis
Memphis, Tennessee
September 25 – 28, 2022

Monday, September 26, 2022

8:00 a.m. – 9:00 a.m. Breakfast

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

10:30 a.m. – 11:00 a.m. Break

11:00 a.m. – 12:00 Noon

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

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

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

12:00 Noon – 12:15 p.m.

HP-02: Overview of Volta River Authority

Dennis Sitsofe Anyomi, Volta River Authority (VRA)

VRA has rejoined the HPC, and an overview of its operations will be provided.

12:15 p.m. – 1:00 p.m.

HP-03: Top Performance Analysis, Methodology and Results

Gbadebo Oladosu, Oak Ridge National Laboratory (ORNL) and John Schuknecht, HPC Data Consultant

In this session, we will examine key findings from the 2022 data cycle and reflect on changes in the business environment. This session is also intended to signal new issues and needs for the Committee to focus on in the upcoming year.

1:00 p.m. – 2:00 pm. Lunch

2:00 p.m. – 3:00 p.m.

HP-04: 2021 Top Performers – Analysis and Results including Long Term Leaders – Part I

Peer Group: 0 – 30 MW, Ranney Falls, Ontario Power Generation –

Edward Loghrin

Peer Group: 30 – 100 MW, Pole Hill, Bureau of Reclamation

Karl Thiel

During this session, the top performing companies in key cost and reliability metrics will share with the Committee what they are doing at their plant(s) to achieve leading performance. This is the time to ask questions and provide comment.

3:00 p.m. – 3:30 p.m. **Break**

3:30 p.m. – 5:00 p.m. **HP-05: 2021 Top Performers – Analysis and Results including Long Term Leaders – Part II**

Peer Group: 100 – 500 MW, Chacayes, Pacific Hydro Chile -

Mauricio Fuentealba

Peer Group: Greater than 500 MW, Chief Joe Dam, USACE

David Sanna

Peer Group: Pump – Generate, Carters Dam, USACE

David Sanna

End of Day

Tuesday, September 27, 2022

8:00 a.m. – 9:00 a.m. **Breakfast**

9:00 a.m. – 10:00 a.m. **HP-06: Various Methods of Benchmarking From A Portfolio Perspective**

Rob Mager, Ontario Power Generation, Inc. (OPG)

Significant benchmarking effort is often undertaken to evaluate individual station performance. While this provides important information to assess performance against best in-class stations, it is also important for utilities to evaluate the performance of their portfolios. This presentation will provide a

broad overview on some of the approaches for portfolio-based benchmarking assessments, along with the pros and cons of the various approaches.

10:00 a.m. – 11:00 a.m. HP-07: Joint Session with Fossil Committee – Staffing Turnover – 1 yr., 5yr., and 10 yr.,

11:00 a.m. – 11:30 a.m. Break

11:30 a.m. – 12:00 Noon

HP-08: HPC Data Presentation – Task Team Update

Clark Bishop, Bureau of Reclamation (BoR)

A survey was conducted prior to the Spring 2021 workshop seeking information on how other committee members would like to retrieve data from the HPC database. A status report of the team's activities, recommendations and proposed next steps will be provided.

12:00 Noon – 1:00 p.m.

HP-09: Hydropower Project Relicensing Expenses

Jeff Lineberger, P.E., Duke Energy Corporation

Janel Ulrich, Chelan County Public Utility District

Insights behind the expenses of obtaining and maintaining a Federal Energy Regulatory Commission (FERC) operating license for hydropower facilities will be provided from two HPC member companies.

1:00 p.m. – 2:00 p.m. Lunch

2:00 p.m. – 3:00 p.m. HP-10: ISO 55000 – Pacific Gas & Electric's Journey to Certification

Michael Thompson, Pacific Gas & Electric Company (PG&E)

Mr. Thompson led PG&E's successful effort to obtain ISO 55001 certification of its Power Generation Asset Management System. He will provide an overview of the program, the resources required, schedule and benefits of achieving the certification.

3:00 p.m. – 3:30 p.m. HP-11: Uneconomical Hydropower Facilities

Stephanie Maggard, PG&E

PG&E has examined the total cost ownership of plants which comprise its hydropower portfolio. Ms. Maggard will provide a case study on the drivers that transition a once profitable hydropower facility to an uneconomical asset.

3:30 p.m. – 4:00 p.m. Break

4:00 p.m. – 5:00 p.m. HP-12: Drought Impacts to Hoover Dam

Noe Santos, BoR

The impacts of the drought in the Western United States and in particular Lake Mead located on the Colorado River in Nevada have been provided in the media. This reservoir is formed by Hoover Dam that is owned and operated by the BoR. Mr. Santos who serves as the BoR's Lower Colorado Basin River Operations Manager will provide the drought's impact on the operation of Hoover Dam.

End of Day

Wednesday, September 28, 2022

8:00 a.m. – 9:00 a.m. Breakfast

9:00 a.m. – 9:15 a.m. HP-13: EUCG – HPC 2022 Data Review Follow-Up

Greg Bosscawen, PG&E, HPC Vice Chair

The HPC conducted its annual data review virtually in July and August and the status of the action items will be reviewed. Additionally, a discussion will be held on the tentative plans for the 2023 data review meeting.

9:15 a.m. – 9:45 a.m. HP-14: HPC 2023 Spring Agenda Planning

David Sanna, USACE, HPC Chair

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

9:45 a.m. – 10:15 a.m. Break

10:15 a.m. - 11:00 a.m. HP-15: 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.

11:00 a.m. – Noon

HP-16: 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.

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