

# EUCG FALL 2022 WORKSHOP SEPTEMBER 25-28



PEABODY MEMPHIS | MEMPHIS, TN





# EUCG FALL 2022 WORKSHOP | SEPTEMBER 25-28

PEABODY MEMPHIS | MEMPHIS, TN



## KEYNOTE SPEAKER

**Matthew P. Crozat**

Executive Director, Strategy and Policy Development

Matt Crozat the Executive Director for Strategy and Policy Development and the Nuclear Energy Institute. He is responsible for directing NEI efforts to identify policy initiatives that will improve economic viability of operating plants and enhance prospects for new plant construction. Mr. Crozat examines market operations and proposed policies to assess their impact on nuclear energy. He also oversees analyses of nuclear industry cost performance and trends. Before joining NEI in 2015, Mr. Crozat was a Senior Policy Advisor in the Office of Nuclear Energy at the U.S. Department of Energy. Mr. Crozat is recognized as an international expert on nuclear energy economic issues. He served co-chair of the Working Party on Nuclear Energy Economics at the Nuclear Energy Agency of the OECD for over ten years. He holds an MA from Cornell University and a BA from Tulane University.





**NOTE:** All session times are indicated in **CENTRAL** time.

# T&D SCHEDULE

## MONDAY, SEPTEMBER 26

8:00 AM – 9:00 AM **BREAKFAST**

9:00 AM – 10:30 AM **EUCG GENERAL SESSION & MEETING OF THE MEMBERSHIP**



### Opening Remarks & Presentation of the EUCG 2023-2024 Board of Directors

**Stephanie Maggard**, PG&E, EUCG President

Keynote Speaker:

**Matt Crozat**, Executive Director for Strategy & Policy Development, Nuclear Energy Institute

Presentation Title:

### The Energy Policy Landscape for the 2020s and Beyond

Companies, states, and now the federal government have been trying to encourage the transition to a low-carbon energy future. The recently passed Inflation Reduction Act creates powerful new incentives for the economy to move towards lower carbon energy options which could dramatically change energy mix over the next twenty years. This presentation will describe the new incentives enacted in this law as well as the broader shifts in the power sector.

10:30 AM – 11:00 AM **BREAK**

11:00 AM – 11:45 AM **T&D COMMITTEE BUSINESS MEETING—Welcome & Introductions**

(CLOSED SESSION)

**Jeannine Beran**, Exelon Utilities | T&D Committee Chair

This session will include introductions of attending utilities and a discussion of their expectations for the week. Other items included in this session will be: Updates on T&D Committee business and laying the groundwork for future T&D Sessions.

- ▶ Welcome and Introductions
- ▶ Budget Review
- ▶ Employee Development and Mentoring Opportunities
- ▶ Success Stories

**NOTE:** All session times are indicated in **CENTRAL** time.

## T&D SCHEDULE | MONDAY (continued)

11:45 AM – 1:00 PM (CLOSED SESSION)	<b>OPERATIONS &amp; INNOVATION – Oncor</b> <b>Ali Walker, PECO</b> <b>Vanessa Myers, PECO</b> <b>David Milowicki, PECO</b> <b>Aileen Gallagher, PECO</b> <b>Tamara Candelaria, PECO</b> <ul style="list-style-type: none"><li>▶ Drone Program</li><li>▶ PECO will Present on their Drone Program</li><li>▶ Internally managed</li><li>▶ Home Grown</li><li>▶ Training Pilots</li><li>▶ Uses for Drone Capabilities</li><li>▶ Reporting of Data</li></ul>
1:00 PM – 2:00 PM	<b>LUNCH</b>
2:00 PM – 3:00 PM (CLOSED SESSION)	<b>OPERATIONS – Environmental, Social &amp; Governance Best Practices Meeting</b> <b>Joe Martucci, PSE&amp;G</b> <ul style="list-style-type: none"><li>▶ Summary of the Spring ESG Conference at PSE&amp;G Headquarters</li><li>▶ The symposium included knowledgeable speakers and panelists with varied experience and backgrounds who offered thought-provoking ideas and produced substantial discussion to drive awareness, opportunities, and innovative solutions around ESG within the utilities industry.</li><li>▶ A summary of the highlights from that symposium including: new and best practices, industry-specific opportunities and challenges, and organizational learning ideas shared by attendees.</li></ul>
3:00 PM – 3:30 PM	<b>BREAK</b>
3:30 PM – 4:00 PM (CLOSED SESSION)	<b>OPERATIONS &amp; SAFETY – TBD</b> Report out of Findings for Vehicle/SIF (1QC Forum), Exelon



**NOTE:** All session times are indicated in **CENTRAL** time.

## T&D SCHEDULE | MONDAY (continued)

4:00 PM – 5:30 PM  
(CLOSED SESSION)

### **DIVERSITY, EQUITY & INCLUSION—Roundtable with Entergy, Oncor, and PSE&G**

Each of these companies will discuss (20-25 Minutes):

- ▶ Employee Engagement Opportunities
- ▶ Communications Methods to reach the Employee Mass
- ▶ Programs in Place to Offer Opportunities to Engage
- ▶ Adoptions of New Methods Under Changing Environments

*(Remote and In Person Sessions)*

6:30 PM – 8:30 PM



### **MONDAY EVENING NETWORKING EVENT**

Please join us for our Networking Reception & Dinner in the Peabody Rooftop and Skyway.

## TUESDAY, SEPTEMBER 27

8:00 AM – 9:00 AM

### **BREAKFAST**

9:00 AM – 10:00 AM  
(CLOSED SESSION)

### **OPERATIONS & INNOVATION—EUCG Battery/Storage Task Group**

**Joe Martucci**, PSE&G, Innovation & Technology Director

Joe will provide an update of the kick off meeting:

- ▶ Participants
- ▶ Discussion for the Day
- ▶ Level of Interest
- ▶ Next Steps
- ▶ Future Meeting

10:00 AM – 11:00 AM  
(CLOSED SESSION)

### **OPERATIONS & INNOVATION—NASA—Standards & Governance for Lunar Power**

**Martin Narendorf**, CenterPoint Energy

- ▶ Present the CenterPoint View
- ▶ Survey to Test the Maturity Within the Panel
- ▶ Summary of Survey





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## T&D SCHEDULE | TUESDAY (continued)

11:00 AM – 11:30 AM	<b>BREAK</b>
11:30 AM – 12:30 PM (CLOSED SESSION)	<b>OPERATIONS &amp; INNOVATION</b> <ul style="list-style-type: none"><li>▶ Open Discussion of Whatever is Your Mind</li><li>▶ 30 Minutes Before Lunch to Return to Rooms to Prepare for Field Trip</li><li>▶ Safety Code to be Adhered to (<i>more to follow on requirements</i>)</li></ul>
1:00 PM – 2:00 PM	<b>LUNCH</b>
2:00 PM – 5:00 PM (TOUR WITH FOSSIL)	<b>OPERATIONS &amp; INNOVATION – Tour of Combined Cycle Plant/Solar Generation (Allen Plant)</b> <p>Allen Combined Cycle Plant, the seventh combined cycle plant TVA has added to its power portfolio since 2007, began supplying power to the grid in April 2018. The plant, located near Memphis, Tennessee has two of the world’s largest and most efficient turbines that run on natural gas, with a generating capacity of about 330 megawatts each. The site also has a combustion steam turbine with about 420 megawatts of capacity, enabling total plant capacity to reach over 1,100 Megawatts, enough power to supply more than a half million homes.</p> <p>With its state-of-the art technology, Allen is the most efficient combined cycle plant in the TVA gas fleet. In August 2017, more than 3,000 solar panels became operational to provide just under 1 megawatt of power to supply the site with renewable energy capacity. Operation and maintenance of the site is provided by approximately 30 full-time employees.</p>
3:30 PM – 4:00 PM	<b>BREAK</b>
4:00 PM – 5:00 PM (TOUR WITH FOSSIL-Cont.)	<b>OPERATIONS &amp; INNOVATION – Tour of Combined Cycle Plant/Solar Generation (Allen Plant)</b>



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## T&D SCHEDULE

### WEDNESDAY, SEPTEMBER 28

8:00 AM – 9:00 AM **BREAKFAST**

9:00 AM – 10:00 AM **OPERATIONS & INNOVATION – Entergy – Data Centric Reporting**

(CLOSED SESSION)

**Michael LiMandri**, Entergy

The Entergy Journey:

- ▶ Data Structure for Reporting
- ▶ How we Gather Data for Reporting from Multiples Systems
- ▶ Roundtable with Attendees Prepared to Discuss Their Methodology
- ▶ Mid August – List of Discussion Questions so that Folks can Come Prepared
- ▶ 3 Questions Will be Sent in Advance  
*(Please come prepared to discuss)*

10:00 AM – 11:00 AM **OPERATIONS – Emergency Preparedness Drills**

(CLOSED SESSION)

**Jeannine Beran**, Exelon Utilities

- ▶ Tabletop Exercises
- ▶ Drills
- ▶ Participants
- ▶ Frequency
- ▶ Formality
- ▶ Processes Reviewed
- ▶ Open Discussion: Entergy Processes  
Exelon, PSEG, and Oncor

11:00 AM – 11:30 AM **BREAK**





**NOTE:** All session times are indicated in **CENTRAL** time.

## T&D SCHEDULE | WEDNESDAY (continued)

11:30 AM – 1:00 PM  
(CLOSED SESSION)

### T&D COMMITTEE BUSINESS

**Jeannine Beran**, Exelon Utilities | T&D Committee Chair

Time will be taken to discuss the Weeks activities:  
Were expectations met? What additional information might be of help?  
What new topics have come up as a result of these discussions?

Fall 2022 Agenda Build

Planning ahead for the Spring Workshop. Topic discussions and ideas will be gathered.

1:00 PM

### WORKSHOP ADJOURNS

1:00 PM – 4:00 PM

### EUCG BOARD MEETING



**NOTE:** All session times are indicated in **CENTRAL** time.

# FOSSIL SCHEDULE

## MONDAY, SEPTEMBER 26

8:00 AM – 9:00 AM **BREAKFAST**

9:00 AM – 10:30 AM **EUCG GENERAL SESSION**



### **Opening Remarks & Presentation of the EUCG 2023-2024 Board of Directors**

**Stephanie Maggard**, PG&E, EUCG President

Keynote Speaker:

**Matt Crozat**, Executive Director for Strategy & Policy Development, Nuclear Energy Institute

Presentation Title:

### **The Energy Policy Landscape for the 2020s and Beyond**

Companies, states, and now the federal government have been trying to encourage the transition to a low-carbon energy future. The recently passed Inflation Reduction Act creates powerful new incentives for the economy to move towards lower carbon energy options which could dramatically change energy mix over the next twenty years. This presentation will describe the new incentives enacted in this law as well as the broader shifts in the power sector.

10:30 AM – 11:00 AM **BREAK**

11:00 AM – 12:00 PM **FP-O1: Introductions/Opening Comments/Keynote Address**

Keynote Address:

**Michael S. Cashon**, Plant Manager, Allen Integrated Site, TVA





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## FOSSIL SCHEDULE | MONDAY (continued)

12:00 PM – 12:30 PM

### FP-O2: Best Practice Award Presentations

The Best Practice Award winners will provide a short presentation of their award-winning program, including benefits and lessons learned.

**Leah Christensen, TVA**

- ▶ Continuous Improvement: “Shark Tank Event”

**Joey Sales, TVA**

- ▶ Safety: “Safety Blitz Program”

12:30 PM – 1:00 PM

### FP-O3: SPOT Program Update

**John Kaplan, TVA**

TVA will provide a LIVE demonstration on SPOT performance and value gained since the presentation at the SP2022 Workshop.

1:00 PM – 2:00 PM

### LUNCH

2:00 PM – 2:30 PM

### FP-O4: Change Management

**Darin Hunt, TVA**

Mr. Hunt will give a presentation on TVA’s Change Management Program, including an overview of the program, its evolution and examples of implementation across the organization.

2:30 PM – 3:00 PM

### FP-O5: Wireless Sensor Technology Update

**Joe White, TVA**

TVA will provide an update on the value of expanding the use of wireless sensors within Fossil Generation.

3:00 PM – 3:30 PM

### BREAK





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## FOSSIL SCHEDULE | MONDAY (continued)

3:30 PM – 4:00 PM

### FP-06: Combined Cycle/Ct Staffing Structures

**Justin Wiemer**, OPPD

**Lee Archer**, Portland General Electric

Presenters will provide a description of their CC/GT Staffing structures.

4:00 PM – 5:00 PM

### FP-07: GADS Lite – Panel

**Bryan Sikes**, Arkansas Electric Cooperative

**Calandra Jones**, TVA

**Leeth DePriest**, Southern Company

Panel to discuss GADS stats/visualization with Power BI directly from raw data.

- ▶ Provide a process overview of their GADS-related processes from unit operations through event reporting to NERC and others as applicable, and internal reporting. Make sure and include any approval steps.
- ▶ Discuss what software is utilized at each point in the process map. If more than one software application is used in the process, please note how the information gets from one application to the next.
- ▶ Explain how the plants/units in your company are reported (*i.e., individual units or as a block*) and the rationale.
- ▶ Describe the different ways GADS information is used within the organization.
- ▶ How do you handle reporting capacities?
- ▶ How do you ensure that the correct cause codes are used?
- ▶ Visualization and BI tools:
  - What are you using for this and what does the input data set look like (*e.g., is it raw data exported from GADS, calculated values from another software package, etc.*)? Are you using the BI tools to perform calculations to aggregate or calculate rolling statistics?

6:30 PM – 8:30 PM

### MONDAY EVENING NETWORKING EVENT

Please join us for our Networking Reception & Dinner in the Peabody Rooftop and Skyway.





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## FOSSIL SCHEDULE

### TUESDAY, SEPTEMBER 27

8:00 AM – 9:00 AM **BREAKFAST**

9:00 AM – 10:00 AM **FP-08: Safety Case Studies**

**Tim Wisdom**, PG&E

- ▶ Overview of PG&E Contractor Safety Program
- ▶ Southern Company

**Valesite Travis**, TVA

**Matt Harris**, Southern Company

- ▶ Contractor Oversight

*Followed with round table discussion on Safety Improvement ideas.*

10:00 AM – 11:00 AM **FP-09: Talent Retention & Staffing Turnover—1 Yr., 5 Yr., 10 Yr.**

(JOINT SESSION WITH HYDRO)

**Panel:** TVA, SCE, AECC, and SoCo

**Devan Deuel**, Portland General Electric

Mr. Deuel will provide a presentation on Portland General Electric's Staffing Turnover projections and plan of actions.

11:00 AM – 11:30 AM **BREAK**

11:30 AM – 12:30 PM **FP-10: Inclusion & Diversity**

**Panel**

**Mini Sharma Ogle**, Portland General Electric

Panelists will present on their company's Inclusion and Diversity program.

*A roundtable discussion will follow.*



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## FOSSIL SCHEDULE | TUESDAY (continued)

12:30 PM – 1:00 PM	<b>FP-11: Spring 2023 Workshop Agenda Development</b>
1:00 PM – 2:00 PM	<b>LUNCH</b>
2:00 PM – 4:30 PM (TOUR WITH T&D)	<b>Tour of Combined Cycle Plant/Solar Generation (Allen Plant)</b> <p>Allen Combined Cycle Plant, the seventh combined cycle plant TVA has added to its power portfolio since 2007, began supplying power to the grid in April 2018. The plant, located near Memphis, Tennessee has two of the world’s largest and most efficient turbines that run on natural gas, with a generating capacity of about 330 megawatts each. The site also has a combustion steam turbine with about 420 megawatts of capacity, enabling total plant capacity to reach over 1,100 Megawatts, enough power to supply more than a half million homes.</p> <p>With its state-of-the art technology, Allen is the most efficient combined cycle plant in the TVA gas fleet. In August 2017, more than 3,000 solar panels became operational to provide just under 1 megawatt of power to supply the site with renewable energy capacity. Operation and maintenance of the site is provided by approximately 30 full-time employees.</p>

## WEDNESDAY, SEPTEMBER 28

8:00 AM – 9:00 AM	<b>BREAKFAST</b>
9:00 AM – 9:30 AM	<b>FP-13: Continuous Improvement Programs – CMMS/EAM Implementation</b>  <b>Bryan Sikes</b> , Arkansas Electric Cooperative Company <p>Bryan will present a short presentation on their companies’ CMMS/EAM implementation project.</p>

**NOTE:** All session times are indicated in **CENTRAL** time.

## FOSSIL SCHEDULE | WEDNESDAY (continued)

9:30 AM – 11:00 AM	<b>Final Review for Proposed Spring 2023 Workshop Agenda and Summarize Key Take-aways for Fall 2022 workshop</b>
11:00 AM – 11:30 AM	<b>BREAK</b>
11:30 AM – 1:00 PM (ALL)	<b>FOSSIL GENERATION COMMITTEE – STEERING MEETING</b>
1:00 PM	<b>WORKSHOP ADJOURNS</b>
1:00 PM – 4:00 PM	<b>EUCG BOARD MEETING</b>





**NOTE:** All session times are indicated in **CENTRAL** time.

# HYDRO SCHEDULE

## MONDAY, SEPTEMBER 26

8:00 AM – 9:00 AM **BREAKFAST**

### 9:00 AM – 10:30 AM **EUCG GENERAL SESSION**



#### **Opening Remarks & Presentation of the EUCG 2023-2024 Board of Directors**

**Stephanie Maggard**, PG&E, EUCG President

Keynote Speaker:  
**Matt Crozat**, Executive Director for Strategy & Policy Development, Nuclear Energy Institute

Presentation Title:  
**The Energy Policy Landscape for the 2020s and Beyond**  
Companies, states, and now the federal government have been trying to encourage the transition to a low-carbon energy future. The recently passed Inflation Reduction Act creates powerful new incentives for the economy to move towards lower carbon energy options which could dramatically change energy mix over the next twenty years. This presentation will describe the new incentives enacted in this law as well as the broader shifts in the power sector.

10:30 AM – 11:00 AM **BREAK**

### 11:00 AM – 12:00 PM **HP-O1: Introductions & 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.





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## HYDRO SCHEDULE | MONDAY (continued)

12:00 PM – 12:15 PM	<b>HP-02: Overview of Volta River Authority</b> <b>Dennis Sitsofe Anyomi</b> , Volta River Authority (VRA) VRA has rejoined the HPC, and an overview of its operations will be provided.
12:15 PM – 1:00 PM	<b>HP-03: Top Performance Analysis, Methodology &amp; Results</b> <b>Gbadebo Oladosu</b> , Oak Ridge National Laboratory (ORNL) <b>John Schuknecht</b> , 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 PM – 2:00 PM	<b>LUNCH</b>
2:00 PM – 3:00 PM	<b>HP-04: 2021 Top Performers—Analysis and Results Including Long Term Leaders—Part I</b> <b>Ranney Falls</b> , Ontario Power Generation ▶ Peer Group: 0 – 30 MW <b>Pole Hill</b> , Bureau of Reclamation ▶ Peer Group: 30 – 100 MW 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 PM – 3:30 PM	<b>BREAK</b>





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## HYDRO SCHEDULE | MONDAY (continued)

3:30 PM – 5:00 PM	<p><b>HP-05: 2021 Top Performers—Analysis and Results Including Long Term Leaders—Part II</b></p> <p><b>Chacayes</b>, Pacific Hydro, Chile</p> <ul style="list-style-type: none"> <li>▶ Peer Group: 100—500 MW</li> </ul> <p><b>Chief Joe</b>, USACE</p> <p><b>Sean F. Sherrard</b>, US Army Corps of Engineers</p> <ul style="list-style-type: none"> <li>▶ Peer Group: Greater than 500 MW</li> </ul> <p><b>Carters Dam</b>, USACE</p> <ul style="list-style-type: none"> <li>▶ Peer Group: Pump—Generate</li> </ul>
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6:30 PM – 8:30 PM 	<p><b>MONDAY EVENING NETWORKING EVENT</b></p> <p>Please join us for our Networking Reception &amp; Dinner in the Peabody Rooftop and Skyway.</p>
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## TUESDAY, SEPTEMBER 27

8:00 AM – 9:00 AM	<b>BREAKFAST</b>
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9:00 AM – 10:00 AM	<p><b>HP-06: Various Methods of Benchmarking from a Portfolio Perspective</b></p> <p><b>Rob Mager</b>, Ontario Power Generation, Inc. (OPG)</p> <p>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.</p>
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10:00 AM – 11:00 AM (JOINT SESSION WITH FOSSIL)	<b>HP-07: Staffing Turnover—1 Yr., 5 Yr., 10 Yr.</b>
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11:00 AM – 11:30 AM	<b>BREAK</b>
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**NOTE:** All session times are indicated in **CENTRAL** time.

## HYDRO SCHEDULE | TUESDAY (continued)

11:30 AM – 12:00 PM	<b>HP-08: HPC Data Presentation – Task Team Update</b> <b>Clark Bishop</b> , 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 PM – 1:00 PM	<b>HP-09: Hydropower Project Relicensing Expenses</b> <b>Janel Ulrich</b> , Chelan County Public Utility District <b>Jeff Lineberger</b> , P.E., Duke Energy Insights behind the expenses of obtaining and maintaining a Federal Energy Regulatory Commission (FERC) operating license for hydropower facilities will be provided from a HPC member company.
1:00 PM – 2:00 PM	<b>LUNCH</b>
2:00 PM – 3:00 PM	<b>HP-10: ISO 55000 – Pacific Gas &amp; Electric’s Journey to Certification</b> <b>Michael Thompson</b> , 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 PM – 3:30 PM	<b>HP-11: Uneconomical Hydropower Facilities</b> <b>Stephanie Maggard</b> , 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 PM – 4:00 PM	<b>BREAK</b>





**NOTE:** All session times are indicated in **CENTRAL** time.

## HYDRO SCHEDULE | TUESDAY (continued)

4:00 PM – 5:00 PM

### 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.

## WEDNESDAY, SEPTEMBER 28

8:00 AM – 9:00 AM

### BREAKFAST

9:00 AM – 9:15 AM

### 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 AM – 9:45 AM

### 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 AM – 10:15 AM

### BREAK

10:15 AM – 11:00 AM

### 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.





**NOTE:** All session times are indicated in **CENTRAL** time.

## HYDRO SCHEDULE | WEDNESDAY (continued)

11:00 AM – 12:00 PM

### 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.

1:00 PM – 4:00 PM

### EUCG BOARD MEETING





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# Nuclear SCHEDULE

## MONDAY, SEPTEMBER 26

8:00 AM – 9:00 AM **BREAKFAST**

9:00 AM – 10:30 AM **EUCG GENERAL SESSION**



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Keynote Speaker:

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Presentation Title:

### The Energy Policy Landscape for the 2020s and Beyond

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10:30 AM – 11:00 AM **BREAK**

11:00 AM – 12:00 PM **NC1: Introductions, General Business & 2023 Update**

**Jeff Davis**, DTE | Nuclear Committee Chair

The EUCG Nuclear Committee is the industry source for member companies to exchange cost and staffing data; the Nuclear Committee is a key resource for nuclear business and finance professionals to network, share best practices and address key opportunities facing the nuclear industry. The EUCG Nuclear Committee Chair will update members with a current perspective of the EUCG Nuclear Committee, introduce the committee's Nuclear Leadership Team and outline provide updates for the 2023 year.





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## NUCLEAR SCHEDULE | MONDAY (continued)

12:00 PM – 1:00 PM	<p><b>NC2: NIID Enhancements &amp; Retrieval of Industry Data from NIID</b></p> <p><b>Christine Messer</b>, Nuclear Committee Database Manager</p> <p>Christine will provide an update on the 2021 survey participation, data review, and survey results.</p>
1:00 PM – 2:00 PM	<b>LUNCH</b>
2:00 PM – 3:00 PM	<p><b>NC3: How EIA Uses Industry Data</b></p> <p><b>Slade Johnson</b>, Energy Information Agency</p> <p>The U.S. Energy Information Administration (EIA) collects, analyzes, and disseminates independent and impartial energy information to promote sound policymaking, efficient markets, and public understanding of energy and its interaction with the economy and the environment. Slade Johnson of EIA will provide members an overview of EIA operations and how EIA uses industry data to fulfill EIA’s mission.</p>
3:00 PM – 3:15 PM	<b>BREAK</b>
3:15 PM – 4:15 PM	<p><b>NC4: O&amp;M Trends</b></p> <p><b>Jeff Davis</b>, DTE   Nuclear Committee Chair</p> <p>O&amp;M expenses have a direct impact on our members bottom lines. Building upon Phil Young’s well-received spring discussion on capital trends, EUCG Nuclear Committee will take a deeper dive into the long-range O&amp;M trends and how those trends impact our members efforts to improve business operations.</p>
4:15 PM – 5:00 PM	<p><b>NC5: NEI Costs in Context</b></p> <p><b>Julie McCallum</b>, NEI</p> <p>Nuclear Energy Institute, Julie McCallum of NEI, will present NEI’s 2022 Costs in Context report and discuss NEI’s perspectives on cost trends within the U.S. commercial nuclear industry.</p>





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## NUCLEAR SCHEDULE | MONDAY (continued)

5:00 PM – 5:15 PM	<p><b>NC6: Day One Wrap Up &amp; Next Day Plan</b></p> <p><b>Ives Zaldumbide</b>, PG&amp;E   Nuclear Committee Vice-Chair</p> <p>Close the day’s sessions with a wrap up and next day highlights.</p>
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<p>6:30 PM – 8:30 PM</p> 	<p><b>MONDAY EVENING NETWORKING EVENT</b></p> <p>Please join us for our Networking Reception &amp; Dinner in the Peabody Rooftop and Skyway.</p>
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## TUESDAY, SEPTEMBER 27

8:00 AM – 9:00 AM	<b>BREAKFAST</b>
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9:00 AM – 10:00 AM	<p><b>NC7: ICE Innovation Roundtable</b></p> <p><b>Darrell Negley</b>, PSEG</p> <p>Innovation, Costs Savings and Efficiencies are at the forefront of our daily business operations. As the economics of operating nuclear power plants become more challenging, we recognize the need to share our best practices in being innovative and more efficient. This open forum session will give members an opportunity to share what new initiatives they are pursuing.</p>
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10:00 AM – 11:00 AM	<p><b>NC8: Power BI</b></p> <p><b>Todd Mionske</b>, APS</p> <p>Data visualization is quickly becoming a business critical application within the nuclear industry. Todd Mionske of APS (Arizona Public Service) will walk members through how Constellation is using Microsoft Power BI to turn data into information and improve business operations.</p>
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11:00 AM – 11:15 AM	<b>BREAK</b>
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**NOTE:** All session times are indicated in **CENTRAL** time.

## NUCLEAR SCHEDULE | TUESDAY (continued)

11:15 AM – 12:15 PM

### NC9: Attracting & Retaining Nuclear Professionals

**Ives Zaldumbide**, PG&E | Nuclear Committee Vice-Chair

Highly-qualified people are the foundation to safe and reliable nuclear operations. Ives Zaldumbide of PG&E will provide members with an overview how Diablo Canyon has approached attracting and retaining nuclear professionals. Ives will then lead a general discussion on current industry staffing trends and highlight current best practices.

12:15 PM – 1:00 PM

### NC10: Presentation of Nuclear Member Issues

**Jeff Davis**, DTE | Nuclear Committee Chair

Jeff Davis will present the nuclear discussion topics submitted by members prior to the workshop. The request for topics was sent to each member company's Primary Representative and Management Sponsor. This is to present items only, with more detailed discussion to occur in further sessions. The process to collect, disseminate and resolve the major nuclear topics will be included in the NC12 session.

1:00 PM – 2:00 PM

**LUNCH**





**NOTE:** All session times are indicated in **CENTRAL** time.

## NUCLEAR SCHEDULE | TUESDAY (continued)

2:00 PM – 5:00 PM

### **NC11: Visit to SAFER Facility**

**Jeff Davis**, DTE | Nuclear Committee Chair

The 2011 Fukushima event changed how the U.S. commercial nuclear industry viewed nuclear safety and our response to nuclear emergencies. As a result of the industry’s study of the Fukushima event and how to mitigate similar risks at U.S. plants, the industry undertook a series of initiatives to harden our plants and improve our coping times. One of those initiatives developed out of the Fukushima lessons learned was the creation of two U.S. national Strategic Alliance for FLEX Emergency Response (SAFER) response facilities located in Memphis, TN and Phoenix, AZ. These facilities are maintained by Pooled Inventory Management (PIM) and managed by Southern Company.

The SAFER centers contain extra equipment to duplicate plants’ emergency diesel generators, pumps, hoses and so on. This equipment would maintain plant safety functions for an indefinite period if an event disabled a plant’s installed safety systems. SAFER has completed two exercises to demonstrate to the NRC they can get backup equipment to any site within 24 hours.

This session provides a hosted tour of the Memphis SAFER facility and includes transportation to and from the SAFER site. The Memphis SAFER Facility is located at the Barnhart Heavy Lifting Terminal and is an industrial site, proper plant attire is required to ensure the safety of all members. Due to capacity constraints, this session is only available to in-person EUCG Nuclear Committee attendees and U.S. nuclear plant personnel.

3:30 PM – 4:00 PM

**BREAK**





**NOTE:** All session times are indicated in **CENTRAL** time.

## NUCLEAR SCHEDULE

### WEDNESDAY, SEPTEMBER 28

8:00 AM – 9:00 AM	<b>BREAKFAST</b>
9:00 AM – 10:00 AM	<p><b>NC12: Major Nuclear Issues/Next Steps Presentations by Breakout Teams</b></p> <p><b>Jeff Davis</b>, DTE   Nuclear Committee Chair</p> <p>The Breakout Team Leads will present the findings and potential next steps for their respective issue. The attendees provide feedback on the presentations. The draft charters, if applicable, are provided to the Nuclear Chair for discussion with the Nuclear Leadership Team regarding disposition (resources, timelines etc.) at the Nuclear Leadership Team meeting.</p>
10:00 AM – 11:00 AM	<p><b>NC13: Fall Workshop Wrap-Up &amp; Roundtable</b></p> <p><b>Ives Zaldumbide</b>, PG&amp;E   Nuclear Committee Vice-Chair</p> <p>Solicit member feedback on the workshop content and facilities, and officially close the workshop.</p>
11:00 AM – 11:30 AM	<b>BREAK</b>
11:30 AM – 1:00 PM	<p><b>NUCLEAR LEADERSHIP TEAM MEETING</b></p> <p><i>Nuclear Leadership Team members Only</i></p>
1:00 PM	<b>WORKSHOP ADJOURNS</b>
1:00 PM – 4:00 PM	<p><b>EUCG BOARD MEETING</b></p> 



**NOTE:** All session times are indicated in **CENTRAL** time.

# Solar SCHEDULE

## MONDAY, SEPTEMBER 26

8:00 AM – 9:00 AM **BREAKFAST**

9:00 AM – 10:30 AM **EUCG GENERAL SESSION**



### **Opening Remarks & Presentation of the EUCG 2023-2024 Board of Directors**

**Stephanie Maggard**, PG&E, EUCG President

Keynote Speaker:

**Matt Crozat**, Executive Director for Strategy & Policy Development, Nuclear Energy Institute

Presentation Title:

### **The Energy Policy Landscape for the 2020s and Beyond**

Companies, states, and now the federal government have been trying to encourage the transition to a low-carbon energy future. The recently passed Inflation Reduction Act creates powerful new incentives for the economy to move towards lower carbon energy options which could dramatically change energy mix over the next twenty years. This presentation will describe the new incentives enacted in this law as well as the broader shifts in the power sector.

10:30 AM – 11:00 AM **BREAK**

11:00 AM – 12:00 PM **Introductions/Opening Comments**

(ALL)

**Scott Trombley** and **Jeremy Garcia**, Facilitating

- ▶ SAFETY CASE STUDY—Roundtable
- ▶ SAFETY CASE STUDY—Each utility will prepare a 1-2 slide 5-10 minute presentation on a safety issue that you would like to share.

*Break out across multiple days at the start of each days sessions.*

**NOTE:** All session times are indicated in **CENTRAL** time.

## SOLAR SCHEDULE | MONDAY (continued)

12:00 PM – 1:00 PM (ALL)	<b>Inverter Roundtable Discussion Related to Inverter Technologies and the Items Listed Below</b>  <b>Jeremy Garcia</b> , Facilitating <ul style="list-style-type: none"><li>▶ Inverter Support Issues</li><li>▶ Inverter Uptime Guarantees</li><li>▶ Inverter Extended Warranties</li></ul>
1:00 PM – 2:00 PM	<b>LUNCH</b>
2:00 PM – 3:00 PM	<b>PV Module Session—Roundtable Discussion Focused on PV Modules</b>  <b>Billy Sabin</b> , TVA, Facilitating <ul style="list-style-type: none"><li>▶ Justification for Repowering or PV Module Change out</li><li>▶ Module Degradation<ul style="list-style-type: none"><li>—Are you monitoring this?</li><li>—If so, how?</li></ul></li><li>▶ PV Module Recycling</li></ul>
3:00 PM – 3:30 PM	<b>BREAK</b>
3:30 PM – 4:30 PM	<b>DC ARC Flash Discussion</b>  <b>Andrew Goebel</b> , Facilitating <ul style="list-style-type: none"><li>▶ Discussion Points Site Arc Flash Ratings</li><li>▶ PPE Concerns</li><li>▶ EPRI 1500 V DC Study Updates?</li></ul>
4:30 PM – 5:30 PM	<b>Floating Solar Presentation</b>  <b>Wesley Sherwood</b> , TECO  TECO has Piloted a Facility that Uses Floating Solar <i>(Presentation on the technology, advantages, and challenges)</i>

**NOTE:** All session times are indicated in **CENTRAL** time.

## SOLAR SCHEDULE | MONDAY (continued)

5:30 PM – 6:00 PM	<b>NERC Low BES Limitations – Group Discussion</b>
	<b>Jeremy Garcia</b> , APS, Facilitating <ul style="list-style-type: none"><li>▶ Vendor Needs to Connect with Solar SCADA, Inverters or Network</li><li>▶ How are you Working Through this Issue?</li><li>▶ CIP Related Discussion</li></ul>

6:30 PM – 8:30 PM	<b>MONDAY EVENING NETWORKING EVENT</b> Please join us for our Networking Reception & Dinner in the Peabody Rooftop and Skyway.
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## TUESDAY, SEPTEMBER 27

8:00 AM – 9:00 AM	<b>BREAKFAST</b>
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9:00 AM – 10:00 AM (ALL)	<b>Safety Case Study – Roundtable</b>
	<b>Scott Trombley</b> , Facilitating <ul style="list-style-type: none"><li>Each utility will prepare a 1-2 slide 5-10 minute presentation on a safety issue that you would like to share.</li><li><i>Break out across multiple days at the start of each days sessions.</i></li></ul>

10:00 AM – 11:00 AM	<b>2021 Solar Committee Data Review</b>
	<b>Christine Messer</b> , Solar Committee Database Manager

11:00 AM – 11:30 AM	<b>BREAK</b>
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**NOTE:** All session times are indicated in **CENTRAL** time.

## SOLAR SCHEDULE | TUESDAY (continued)

11:30 AM – 12:15 PM	<b>PV Module Diode Failures</b> <b>Rick Cumbie</b> and <b>Mark Wagner</b> , Duke, Presenting Report out on the diode failures that have occurred at Duke Florida solar sites.
12:15 PM – 1:00 PM	<b>Communications Issues Between the Site &amp; Main IT Hub – Roundtable</b> <b>David Scott</b> , Duke Energy, Facilitating <ul style="list-style-type: none"><li>▶ Are you Detecting These Issues?</li><li>▶ Immediate Detection</li><li>▶ Lagging Detection<ul style="list-style-type: none"><li>– How Frequent are They?</li><li>– Resolution?</li></ul></li></ul>
1:00 PM – 2:00 PM	<b>LUNCH</b>
2:00 PM – 2:45 PM	<b>Warranty Discussion – Roundtable Discussion</b> <ul style="list-style-type: none"><li>▶ EPC Wrap Warranty Length: Reduction in Warranty Time and Impacts</li><li>▶ PV Module Warranties: Length, Issues</li><li>▶ Other Warranties?</li></ul>
2:45 PM – 3:30 PM	<b>Spare Parts Management Strategies – Roundtable Discussion</b> <ul style="list-style-type: none"><li>▶ Stocking Levels?</li><li>▶ Location: Central vs Site Level</li><li>▶ Emergent Parts Sharing Opportunities</li></ul>
3:30 PM – 4:00 PM	<b>BREAK</b>



**NOTE:** All session times are indicated in **CENTRAL** time.

## SOLAR SCHEDULE | TUESDAY (continued)

4:00 PM – 5:00 PM	<b>Seasonal Readiness—Roundtable Discussion</b> <ul style="list-style-type: none"><li>▶ PM's Related to Seasonal Weather Concerns</li><li>▶ Seasonal Operation Concerns by Region</li></ul>
5:00 PM – 6:00 PM	<b>NERC and or CIP Requirements</b> <p><b>Jeremy Garcia</b>, Facilitating</p> <ul style="list-style-type: none"><li>▶ Discussion on any NERC or CIP Related Requirements for Solar</li><li>▶ Installations Issues Related to OEM Support Related to NERC or CIP Requirements</li></ul>

## WEDNESDAY, SEPTEMBER 28

8:00 AM – 9:00 AM	<b>BREAKFAST</b>
9:00 AM – 10:00 AM	<b>Energy Storage Development—Discussion</b> <p><b>Scott Trombley</b>, Facilitating</p> <ul style="list-style-type: none"><li>▶ Updates on BESS Development, Technologies Being Considered</li><li>▶ Discuss EUCG Storage Group Development</li></ul>
10:00 AM – 11:00 AM	<b>SCADA Upgrades—Roundtable Discussion</b> <ul style="list-style-type: none"><li>▶ SCADA Upgrades: Standardization</li><li>▶ Challenges with Upgrading SCADA System</li></ul>
11:00 AM – 11:30 AM	<b>BREAK</b>



**NOTE:** All session times are indicated in **CENTRAL** time.

## SOLAR SCHEDULE | WEDNESDAY (continued)

11:30 AM – 1:00 PM	<b>Fall Session Planning – Roundtable</b>
1:00 PM	<b>WORKSHOP ADJOURNS</b>
1:00 PM – 4:00 PM	<b>Joe Martucci, PSE&amp;G and Scott Trombley</b> ▶ Tentative Bulk Energy Storage Group Meeting
1:00 PM – 4:00 PM	<b>EUCG BOARD MEETING</b>





## EUCG

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