

# **EUCG 2017**

## FALL WORKSHOP

PORTLAND MARRIOTT DOWNTOWN WATERFRONT  
**PORTLAND, OR | SEPT 17-20**







# EUCG 2017

## FALL WORKSHOP

PORTLAND MARRIOTT  
DOWNTOWN WATERFRONT

SEPTEMBER 17-20, 2017



### Dear EUCG Colleagues,

On behalf of the EUCG Board of Directors, we welcome you to the 2017 Fall Committee Workshops at the Portland Marriott Downtown Waterfront in Portland, Oregon. We are excited to be in this beautiful city.

The Committee Chairs and their teams have worked very hard to assemble interesting and engaging presentations and discussion topics for this workshop. We want to again give a special thanks to the members of our Workshop Task Team for the integral role they have played in putting together all aspects of this workshop. While we know most of you are here to attend a specific committee workshop, we encourage you to take a look at all the committee schedules. You may find a topic of interest for you or another member of your company, and we invite you to sit in on any of the sessions.

We are thrilled to have an outstanding keynote speaker for this workshop. We are pleased to have Gary Norland, renowned safety speaker, share his experiences with us in our Opening Session.

Our tradition of a fun and exciting Monday Evening Networking Event continues as we look forward to touring the Oregon Museum of Science and Industry. This will be a great opportunity to reunite with old friends and make new friends, and it's always a great time! There are more than 25 first-time attendees at this workshop and we are thrilled to welcome them to the EUCG family.

The EUCG Board continues to look for ways to improve EUCG's products and services for the benefit of you, our members. We are excited about the recent formation of the EUCG Solar Committee. We are also forming an Executive Advisory Council (EAC) of industry leaders which will provide guidance on the strategic direction of EUCG.

We are glad that you have joined us in Portland! Remember to mark your calendar and join us April 22-25, 2018 at the Hyatt Regency San Antonio in San Antonio, Texas for the 2018 Spring Committee Workshops.



**Stephanie Maggard**  
EUCG President



GARY NORLAND

The impact of an injury “What are you risking”? Your Life... Have you considered your family, coworkers, community? There is a ripple effect!

Gary's message and story is straight from the heart and he tells it like it is. He will share his real life safety experience about being electrocuted by 200

amps, 12,500 volts. Fire and electricity shot out of his body in fifteen places resulting in electrical burns over 37% of his body. He has had so many surgeries that he has lost count, well over fifty.

Gary's mission is to explain the reality of life after an accident and the importance of taking safety seriously. Life as Gary knew it changed in less than a second when he suffered an injury that could have been prevented. Gary explains how his choice to avoid the use of proper safety equipment and rushing the clock cost him his independence. His vivid photos leave nothing to the imagination of the reality of an injury. The audience will leave impacted by his story and will make intentional changes to their safety awareness.

Gary always says **“This is REALITY! IT CAN HAPPEN TO YOU!!!”**

## EUCG LEADERSHIP

**STEPHANIE MAGGARD****PRESIDENT**

Pacific Gas & Electric Company  
PO Box 770000 | Mail Code N11E  
San Francisco, CA 94177  
415.973.2812  
sam6@pge.com

**JESSE MEDLOCK****VICE PRESIDENT**

Oncor Electric Delivery  
115 W. 7th St, Ste 1023  
Ft. Worth, TX 76102  
817.215.6549  
jesse.medlock@oncor.com

**EVELYN GRANT****TREASURER**

Lower Colorado River Authority  
6549 Power Plant Rd  
LaGrange, TX 78945  
979.249.8381  
egrant@lcra.org

**AMY HARRIS****SECRETARY**

Tennessee Valley Authority  
1101 Market St, MR5K-C  
Chattanooga, TN 37402  
423.751.6391  
atkonopka@tva.gov

**DON KAISER****STAFF | EXECUTIVE DIRECTOR**

kaiser@eucg.org

**STEVE THORNTON****MARKETING DIRECTOR**

Duke Energy  
410 S Wilmington St | PEB 7  
Raleigh, NC 27601  
919.546.4186  
stephen.thornton@duke-energy.com

**MATT DAU****EMERGING ISSUES DIRECTOR**

Bonneville Power Authority  
Box 3621 | PGAF-6  
Portland, OR 97208  
503.230.3961  
mrdau@bpa.gov

**STEVE ROYALL****FOSSIL COMMITTEE CHAIR**

Pacific Gas & Electric Company  
245 Market St | Mail Code N11E  
San Francisco, CA 94105  
415.973.6115  
sgr8@pge.com

**CHRIS UTRACKI****HYDROELECTRIC COMMITTEE CHAIR**

Ontario Power Generation  
14000 Niagara Parkway ND2  
Niagara on the Lake, ON L0S 1J0, CAN  
905.357.0322 x 6004  
chris.utracki@opg.com

**JULIANA GORDON****STAFF | PROGRAM ADMINISTRATOR**

gordon@eucg.org

**DAVID WARD, JR****NUCLEAR COMMITTEE CHAIR**

Duke Energy  
526 S Church Street  
Charlotte, NC 28201  
704.382.4943  
dr.ward@duke-energy.com

**EILEEN BRANNON****T&D COMMITTEE CHAIR**

Oncor Electric Delivery  
1616 Woodall Rodgers Frwy  
Dallas, TX 75202  
214.486.5309  
eileen.brannon@oncor.com

**RUBEN SOTO****SOLAR COMMITTEE CHAIR**

Southern California Edison  
1515 Walnut Grove Avenue  
Rosemead, CA 91770  
626.302.0587  
ruben.soto@sce.com

**JERRY PANARO****GENERAL COUNSEL**

Howe & Hutton, Ltd.  
1901 Pennsylvania Ave NW, Ste 1007  
Washington, DC 20006  
202.466.7252  
gpp@howehutton.com

**RON CHATELAIN****STAFF | ACCOUNTANT**

**SUNDAY SEPTEMBER 17**

8:00 am – 1:30 pm	<b>Board of Directors Meeting</b>	<i>Salon AB</i>
4:30 pm – 5:00 pm	<b>New Delegate Orientation</b>	<i>Salon AB</i>
5:00 pm – 8:00 pm	<b>Welcome Reception &amp; Registration</b>	<i>Mount Hood</i>

**MONDAY SEPTEMBER 18**

7:00 am – 8:00 am	<b>Breakfast</b>	<i>Salon F</i>
8:00 am – 9:30 am	<b>Opening Session and Welcome Address</b>	<i>Salon E</i>
9:30 am – 10:00 am	<b>Break</b>	<i>Salon F</i>

	<b>FOSSIL</b> <i>Salon A</i>	<b>HYDRO</b> <i>Salon CD</i>	<b>NUCLEAR</b> <i>Salon I</i>	<b>T&amp;D</b> <i>Salon G</i>
10:00 am – 11:00 am	<b>FP1 (60 min)</b> Chairman's Remarks/ Fossil Keynote	<b>HP1 (45 min)</b> Introductions & Business Updates/Address from HPC Chairman	<b>NC1 (60 min)</b> Introductions, General Business & 2017 Strategic Plan Update	<b>TD1 (60 min)</b> Welcome & Introductions
11:00 am – 12:00 pm	<b>FP2 (60 min)</b> KPIs: Calculating Metrics for a New Energy Market	<b>HP2 (30 min)</b> Top Performance Analysis, Methodology & Results  <b>HP3 (45 min)</b> 2016 Top Performers: Analysis & Results Including Long Term Leaders	<b>NC2 (60 min)</b> Presentation of Member Issues	<b>TD2 (60 min)</b> Innovation: Integrating New Technology in the Field-Use of Unmanned Aerial Systems (UAS) Technology for Damage Assessment
12:00 pm – 1:00 pm	<b>Lunch</b>			<i>Salon F</i>

	<b>FOSSIL</b> <i>Salon A</i>	<b>HYDRO</b> <i>Salon CD</i>	<b>NUCLEAR</b> <i>Salon I</i>	<b>T&amp;D</b> <i>Salon G</i>
1:00 pm – 2:00 pm	<b>FP3 (105 min)</b> Commercial Availability	<b>HP4 (60 min)</b> 2016 Top Performers: Analysis & Results Including Long Term Leaders (cont)	<b>NC3 (60 min)</b> Delivering the Nuclear Promise Program	<b>TD3 (45 min)</b> Operations: Preserving Tribal Knowledge
2:00 pm – 2:45 pm		<b>HP5 (45 min)</b> Commercial Availability in Hydro Generation	<b>NC4 (45 min)</b> Discussion of Member Issues	<b>TD4 (45 min)</b> Operations: Human Performance Improvement
				<b>TD5 (15 min)</b> Member Success Stories
2:45 pm – 3:15 pm	<b>Break</b>			<i>Salon F</i>
3:15 pm – 4:15 pm	<b>FP3 (60 min)</b> Commercial Availability (cont)  <i>Joint Session with Hydro Committee in Salon CD</i>	<b>HP6 (60 min)</b> Commercial Availability  <i>Joint Session with Fossil Committee in Salon CD</i>	<b>NC5 (3:00-3:45)</b> Staffing Task Team Report	<b>TD6 (60 min)</b> Operations: Stepping Up Data Requests – Best Practice Efficiency Metrics Round Table
4:15 pm – 5:00 pm	<b>FP4 (30 min)</b> Monday Debrief	<b>HP7 (30 min)</b> US Army Corps of Engineers: Hydropower Modernization Initiative (HMI) Model Update	<b>NC6 (30 min)</b> Major Nuclear Issues Discussion: Purpose/ Scope/Team Lead	
			<b>NC7 (15 min)</b> Day 1 Wrap-Up	<b>TD7 (45 min)</b> Daily Wrap-Up & General Discussion
6:00 pm – 9:30 pm	<b>Monday Evening Networking Dinner Event</b> <i>Buses will operate on a continuous loop between the hotel and museum from 5:45 pm – 9:30 pm. Please meet in the hotel lobby.</i> Explore the story of Pompeii and the eruption of Mount Vesuvius at the Oregon Museum of Science and Industry. Enjoy specially crafted cuisine after touring the museum, and network with international electric utility leaders. The evening will feature private access to the museum, drinks, dinner and dessert. Be sure to join us for an evening full of networking, food, and history!			

**TUESDAY SEPTEMBER 19**

7:00 am – 8:00 am **Breakfast**
*Salon F*

	<b>FOSSIL</b> <i>Salon A</i>	<b>HYDRO</b> <i>Salon CD</i>	<b>NUCLEAR</b> <i>Salon I</i>	<b>T&amp;D</b> <i>Salon G</i>
8:00 am – 9:00 am	<b>FP5 (60 min)</b> Safety Case Studies	<b>HP8 (60 min)</b> Benchmarks: What do You Use/Find Most Useful/What are the Results or How do You Communicate the Value of Benchmarking?	<b>NC8 (60 min)</b> NIID Enhancements/ Data Definitions	<b>TD8 (60 min)</b> Innovation: Reviewing the Exelon Innovation Expo
9:00 am – 9:45 am	<b>FP6 (45 min)</b> Employee-Driven Safety Programs	<b>HP9 (45 min)</b> Benchmarks: Outage Performance – Process & Metrics	<b>NC9 (45 min)</b> Review Sharing & Providing Access to EUCG Data Products	<b>TD9 (45 min)</b> Technology: Collection of Data & its Use in Predictive Analytics

9:45 am – 10:15 am **Break**
*Salon F*

10:15 am – 11:00 am	<b>FP7 (45 min)</b> Best Practice HRSG Chemistry Control Strategies	<b>HP10 (45 min)</b> Meridian Energy's Asset Management Program	<b>NC10 (10:00-11:00)</b> Cost-Effective Operation	<b>TD10 (45 min)</b> Safety: PSEG 2017 Safety Symposium Recap
11:00 am – 12:00 pm	<b>FP8 (60 min)</b> Combined Cycle Operator Training	<b>HP11 (60 min)</b> Hydro Plant Inflow Forecasting; Methodologies & Software	<b>NC11 (60 min)</b> Workshop Format Enhancements	<b>TD11 (60 min)</b> Technology: Taking Mobility Seriously

12:00 pm – 1:00 pm **Lunch**
*Salon F*

	<b>FOSSIL</b> <i>Salon A</i>	<b>HYDRO</b> <i>Salon CD</i>	<b>NUCLEAR</b> <i>Salon I</i>	<b>T&amp;D</b> <i>Salon G</i>
1:00 pm – 2:00 pm	<b>FP9 (60 min)</b> Operations & Safety: RootCause Analysis & the Oncor SCAN App  <i>Joint Session with T&amp;D Committee in Salon B</i>	<b>HP12 (45 min)</b> Meridian Energy's Lockout & Tagging – Work Control Procedures  <b>HP13 (60 min)</b> Decommissioning of Hydro Facilities due to Relicensing Costs or Other Reasons	<b>NC12 (60 min)</b> Decommission Database/ Best Practice Template  <b>NC13 (45 min)</b> Project Execution Effectiveness in a Regulated Environment	<b>TD12 (60 min)</b> Operations & Safety: Root Cause Analysis & the Oncor SCAN App  <i>Joint Session with Fossil Committee in Salon B</i>
2:00 pm – 2:45 pm	<b>FP10 (45 min)</b> Performance Upgrades & Rotor End of Life Considerations for Combined Cycle Plants			<b>TD13 (45 min)</b> Member Success Stories
2:45 pm – 3:15 pm	<b>Break</b>			<i>Salon F</i>
3:15 pm – 4:00 pm	<b>FP11 (45 min)</b> Updating CPS Energy's Lock-Out/Tag-Out Procedure	<b>HP14 (45 min)</b> Generation Schedule Next Day/Next Week	<b>NC14 (3:00-3:45)</b> Major Nuclear Issues Discussion/Finalize Wednesday Presentations  <b>NC15 (15 min)</b> Day 2 Wrap-Up	<b>TD14 (45 min)</b> Safety: Exploring Safety Analytics – Round Table
4:00 pm – 5:00 pm	<b>FP12 (30 min)</b> 2018 Spring Workshop Agenda Development  <b>FP13 (30 min)</b> Tuesday Debrief	<b>HP15 (30 min)</b> ORNL Proposed Projects		<b>TD15 (60 min)</b> Daily Wrap-Up & General Discussion

**WEDNESDAY** SEPTEMBER 20

7:00 am – 8:00 am **Breakfast**
*Salon F*



	FOSSIL Salon A	HYDRO Salon CD	NUCLEAR Salon I	T&D Salon G
8:00 am – 8:45 am	FP14 (45 min) Lean Initiatives	HP16 (20 min) HydroAMP Update	NC16 (60 min) Presentation of Issues	TD16 (45 min) Operations: Redefining Project Closeout at AEP & the Lessons Learned
		HP17 (15 min) EUCG–HPC Data Review Follow-Up		
		HP18 (40 min) EUCG–Staffing & Safety Survey Results		
8:45 am – 9:45 am	FP15 (30 min) 2018 Spring Agenda Review		NC17 (45 min) Summation of Fall 2017 Workshop Actions & Roundtable	TD17 (60 min) Technology: The Digital Workforce & Wearable Technology
	FP16 (30 min) Wednesday Conference Debrief	HP19 (30 min) HPC 2018 Spring Agenda Planning		
9:45 am – 10:15 am Break Salon F				
10:15 am – 11:00 am	(105 min) FOSSIL STEERING COMMITTEE MEETING	HP20 (45 min) HPC Business Report	NC18 (45 min) Overview of Spring 2018 Workshop Agenda	TD18 (45 min) Workshop Wrap-Up & Agenda Planning & General Work Session
11:00 am – 12:00 pm Boxed Lunches Provided Salon F				
11:00 am – 12:00 pm	FOSSIL STEERING COMMITTEE MEETING (CONT)	HP21 (60 min) HPC Roundtable & Action Item Review	(240 min) NUCLEAR COMMITTEE LEADERSHIP MEETING	
12:00 pm – 3:00 pm		(90 min) HYDRO COMMITTEE LEADERSHIP MEETING		



EUCG 2017 FALL WORKSHOP

# **FOSSIL TRACK SCHEDULE**

## MONDAY SEPTEMBER 18

8:00 am – 9:30 am	<b>EUCG Opening Session &amp; Welcome Address</b>	Salon E
9:30 am – 10:00 am	<b>Break</b>	Salon F
10:00 am – 11:00 am	<b>FP1: Chairman's Remarks/Fossil Keynote</b> Steve Royall, <i>Pacific Gas &amp; Electric, Fossil Committee Chair</i> Guest Speaker, <i>Burns &amp; McDonnell</i>  Following opening remarks from FGC Chairman Steve Royall, a representative from Burns & McDonnell will kick off the Fossil agenda track with a presentation on the flexible generation needs in North America and the role that reciprocating engines play in tomorrow's marketplace.  During this session, the speaker will examine the development, decision, execution, and operation of reciprocating engine plants, including a case study of recently constructed recip facilities. Current recip engine plant performance, emissions, and cost data with comparison to competing technologies including frame and aeroderivative gas turbine data will be provided.	Salon A
11:00 am – 12:00 pm	<b>FP2: KPIs – Calculating Metrics for a New Energy Market</b> Ben Zimmerman, <i>Tennessee Valley Authority</i>  This session will cover current performance metrics used for generating assets in the coal and gas sector. Discussion will include the calculation of metrics, benefits of these metrics for operating a business, and their limitations in a changing industry.	Salon A
12:00 pm – 1:00 pm	<b>Lunch</b>	Salon F
1:00 pm – 2:45 pm	<b>FP3: Commerical Availability</b> Ben Zimmerman, <i>Tennessee Valley Authority</i> Andrew Valencia, <i>Lower Colorado River Authority</i>  The session will feature the presentation of the results of a survey on how EUCG member utilities calculate and use a Commercial Availability Factor (CAF). The presentation will be followed by a purpose discussion and a work session with the goal of establishing a standardized, CAF metric.	Salon A
2:45 pm – 3:15 pm	<b>Break</b>	Salon F
3:15 pm – 4:15 pm	<b>FP3: Commerical Availability (Cont)</b> (Joint Session with Hydro Committee)	Salon CD
4:15 pm – 4:45 pm	<b>FP4: Monday Debrief</b> Don Barnett, <i>CPS Energy</i>  Fossil Steering Committee members will facilitate a daily debrief to capture key ideas and takeaways from the day's sessions.	Salon A



## TUESDAY SEPTEMBER 19

8:00 am – 9:00 am **FP5: Safety Case Studies**

Salon A

Don Barnett, *CPS Energy*  
 Kenneth Mullinax, *Tennessee Valley Authority*  
 Steve Royall, *Pacific Gas and Electric, Fossil Committee Chair*

During this session, representatives from FGC member utilities will present safety case studies. A presentation might focus on a specific event – its root cause, lessons learned, and corrective action taken – or it might highlight a general plant safety issue such as the use of improvised tools or lone worker safety.

9:00 am – 9:45 am **FP6: Employee-Driven Safety Programs**

Salon A

Brandon Wilson, *Tennessee Valley Authority*

Do your employees understand that they have personal accountability for their own safety? During this session, delegates will hear ideas on how they can move their companies away from a management-owned safety approach to one owned by the employees. Management's responsibility is to create and nurture an environment where employees are empowered to believe that working safely is not only possible, but is a personal expectation and one shared with their families. The presentation will demonstrate an approach to move employees from a reactive state to one of interdependency.

9:45 am – 10:15 am **Break**

Salon F

10:15 am – 11:00 am **FP7: Best Practice HRSG Chemistry Control Strategies**

Salon A

Peter Ten Eyck, *Nalco Water*

Today's HRSG power generation units require rigorous attention to chemistry control, both boiler-side and cooling water-side, in order to comply with benchmark Key Performance Indicators (KPIs). Further complicating the situation is the increased variation in load profiles and the shift away from baseload operation. This presentation will discuss the targeted boiler and cooling water KPIs and the best practice chemistry control strategies to achieve these. Discussion will detail the use of amines for condensate/feedwater pH control, phosphate addition for boiler chemistry control, and various cooling water strategies for corrosion, scale, and microbiological control.

Peter Ten Eyck is a Senior Technical Consultant for Nalco Water, a subsidiary of Ecolab. Peter has over thirty years of experience in power plant water treatment including both fossil and nuclear. He is responsible for providing technical support and training to Nalco field reps and their customers in the US. Peter has served on many EPRI technical guideline committees and has authored technical papers for EPRI, IWC, and other industry conferences. He holds a BS degree from Penn State University and an MBA degree from Loyola College. Peter lives in Pittsburgh, Pennsylvania.

11:00 am – 12:00 pm **FP8: Combined Cycle Operator Training**

Salon A

Don Barnett, *CPS Energy*  
 Bryan Dubreuiel, *Austin Energy*  
 Steve Royall, *Pacific Gas & Electric, Fossil Committee Chair*  
 Andrew Valencia, *Lower Colorado River Authority*

A panel discussion focused on the programs used by FGC member utilities to train operators for combined cycle plants. This session will also address cross-training or retraining plant personnel to transition to combined cycle plants from conventional steam electric generating units.

12:00 pm – 1:00 pm	<b>Lunch</b>	Salon F
1:00 pm – 2:00 pm	<b>FP9: Operations &amp; Safety: Root Cause Analysis &amp; the Oncor SCAN App</b> <i>(Joint Session with T&amp;D Committee)</i> Don Barnett, <i>CPS Energy</i> David Kole, <i>Oncor</i> Steve Royall, <i>Pacific Gas &amp; Electric, Fossil Committee Chair</i> <p>Root cause analysis (RCA) is not just for safety incidents anymore; it is for everyday use. This session will focus on the use of RCA across all aspects of operations and highlight the Oncor SCAN app. Oncor has developed internal processes, training, and an app to be provided to all employees relating to RCA and evidence preservation. Oncor will discuss the training given to all employees, the app and the data collected to date from the use of the app. Representatives of FGC member companies will discuss the RCA processes used by their organizations.</p>	Salon B
2:00 pm – 2:45 pm	<b>FP10: Performance Upgrades &amp; Rotor End of Life Considerations for Combined Cycle Plants</b> Guest Speaker, <i>PSM</i> <p>Power generation market dynamics – such as reduced natural gas prices, an uncertain regulatory environment, and “must-take” renewable generation source installations – make operational flexibility a key differentiator to gas turbine operators. During this session, a representative of PSM will discuss solutions designed to address these changing marketing needs: a retrofittable combustion system; performance upgrades to provide increased output, reduced heat rate, and operating interval extension; controls upgrades to reduce start-up NOx, improve fuel flexibility, and expand low- and high-end load range; rotor lifetime extension assessments to determine the potential to run rotors beyond their original published limits, thus extending unit life without making significant investments in rotor or unit replacements.</p>	Salon A
2:45 pm – 3:15 pm	<b>Break</b>	Salon F
3:15 pm – 4:00 pm	<b>FP11: Updating CPS Energy’s Lock-out/Tag-out Procedure</b> Jacob Bissell, <i>CPS Energy</i> <p>CPS Energy, the nation’s largest municipally-owned electric and natural gas company, owns and operates a fleet of generating stations with a capacity of approximately 5,500 MW. Recently, in support of CPS Energy’s Zero Harm safety culture, the Power Generation business unit undertook a significant effort to rewrite the Lock-out/Tag-out Procedure that protects workers at the generating facilities from the release of hazardous energy. This session will cover the rewriting process that incorporated inputs from multiple sources with the ultimate goal of producing a step-by-step procedure that meets the requirements of OSHA CFR 29 Part 1910.147, that is trainable, and that works for CPS Energy.</p>	Salon A
4:00 pm – 4:30 pm	<b>FP12: 2018 Spring Workshop Agenda Development</b> Don Barnett, <i>CPS Energy</i> <p>Don Barnett, the FGC Vice Chairman and Agenda Coordinator, will facilitate a session devoted to planning the committee’s agenda for the EUCG 2018 Spring Workshop, which is scheduled for April 22–25 in San Antonio, Texas. During the planning process, members will vote on agenda topics and identify surveys to update.</p>	Salon A

4:30 pm – 5:00 pm **FP13: Tuesday Debrief**

Salon A

Don Barnett, *CPS Energy*

Fossil Steering Committee members will facilitate a daily debrief to capture key ideas and takeaways from the day's sessions.

**WEDNESDAY SEPTEMBER 20**8:00 am – 8:45 am **FP14: Lean Initiatives**

Salon A

Keith Morrison, *Omaha Public Power District*Kenneth Mullinax, *Tennessee Valley Authority*

A panel discussion or short case studies describing FGC members' experiences implementing Lean principles as part of a continuous improvement initiative.

8:45 am – 9:15 am **FP15: 2018 Spring Workshop Agenda Review**

Salon A

Don Barnett, *CPS Energy*

During this session, Don Barnett will present the most popular topics for inclusion in the FGC agenda at the EUCG 2018 Spring Workshop and recruit speakers, panelists, and survey sponsors.

9:15 am – 9:45 am **FP16: Wednesday/Conference Debrief**

Salon A

Don Barnett, *CPS Energy*

Fossil Steering Committee members will facilitate a debrief to capture key ideas and takeaways from the day's sessions and solicit delegates' input on the conference as a whole.

9:45 am – 10:15 am **Break/Adjourn Fossil Agenda Track**

Salon F

10:15 am – 12:00 pm **Fossil Steering Committee Meeting**

Salon A

11:00 am – 12:00 pm **Boxed Lunches Provided**

Salon F









EUCG 2017 FALL WORKSHOP

# **HYDRO TRACK SCHEDULE**



## MONDAY SEPTEMBER 18

8:00 am – 9:30 am	<b>EUCG Opening Session &amp; Welcome Address</b>	Salon E
9:30 am – 10:00 am	<b>Break</b>	Salon F
10:00 am – 10:45 am	<b>HP1: Introductions &amp; Business Updates/Address from HPC Chairman</b> Chris Utracki, <i>Ontario Power Generation, Hydro Committee Chair</i>  Introductory session will give new members the opportunity to introduce themselves and their companies, as well as for all members to share any business updates and “headline news” happening at their companies.  <b>New Member Overview – Meridian Energy</b> Richard Griffiths, <i>Meridian Energy</i>  An overview of Meridian Energy’s company and in particular its hydropower fleet will be provided. The company’s background, structure, leadership and culture will be covered.	Salon CD
10:45 am – 11:15 am	<b>HP2: Top Performance Analysis, Methodology &amp; Results</b> Patrick O’Connor, <i>Oak Ridge National Lab</i> John Schuknecht, <i>Pacific Gas &amp; Electric</i>  During this session, we will examine key findings from the 2016 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.	Salon CD
11:15 am – 12:00 pm	<b>HP3: 2016 Top Performers – Analysis &amp; Results Including Long Term Leaders</b> Selected Top Performers  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. Please be prepared to ask questions!	Salon CD
12:00 pm – 1:00 pm	<b>Lunch</b>	Salon F
1:00 pm – 2:00 pm	<b>HP4: 2016 Top Performers – Analysis &amp; Results Including Long Term Leaders (Cont)</b>	Salon CD
2:00 pm – 2:45 pm	<b>HP5: Commercial Availability in Hydro Generation</b> Alex Mosely, <i>Tennessee Valley Authority</i> Chris Utracki, <i>Ontario Power Generation, Hydro Committee Chair</i> Ruben Soto, <i>Southern California Edison</i>  During the last two decades, power generation landscape has been gradually shifting from the cost-of-service to more market driven. As the result, traditional (generating unit) equivalent availability measure (EAF), successfully used for many years as the key index in a steady, vertically integrated industry, is no longer sufficient for measuring commercial success. To fill the gap, variations of the measures that incorporate \$ per MWh or similar financial indicators, are being introduced. The exact methodology depends on the revenue mechanism utility operates under as well as the utility’s desire to balance computational effectiveness with accuracy. The utility representatives will provide their company’s approaches to determining this value.	Salon CD
2:45 pm – 3:15 pm	<b>Break</b>	Salon F



3:15 pm – 4:15 pm	<b>HP6: Commerical Availability</b> <i>(Joint Session with Fossil Committee)</i>	Salon CD
	The HPC will join the Fossil Committee to share and learn about Commercial Availability and its use as a management tool in the power generation industry. The HPC will join the Fossil Committee to share and learn about Commercial Availability and its use as a management tool in the power generation industry.	
4:15 pm – 4:45 pm	<b>HP7: US Army Corps of Engineers - Hydropower Modernization Initiative (HMI) Model update</b>	Salon CD
	Michael Kilbride, <i>United States Army Corps of Engineers</i>	
	An update of the USACE's HMI program will be provided.	

## TUESDAY SEPTEMBER 19

8:00 am – 9:00 am	<b>HP8: Benchmarks – What do You Use/Find Most Useful/What are the Results or How do You Communicate the Value of Benchmarking?</b>	Salon CD
	Anna De Cata, <i>Enel Green Power</i> John Schuknecht, <i>Pacific Gas &amp; Electric</i> Melissa Napton, <i>Southern California Edison</i>	
	Utilities expend resources to participate in a benchmarking program. During this session utility representatives will provide insight into the value they receive and how the results are utilized in their business.	
9:00 am – 9:45 am	<b>HP9: Benchmarks – Outage Performance – Process &amp; Metrics</b>	Salon CD
	Patrice Blais, <i>Hydro Quebec</i> Ruben Soto, <i>Southern California Edison</i>	
	Planned unit outages require significant labor and implementation time, investment of O&M and capital funds. Utilities use various metrics to manage this investment and the results. Two examples will be presented during this session by member representatives.	
9:45 am – 10:15 am	<b>Break</b>	Salon F
10:15 am – 11:00 am	<b>HP10: Meridian Energy's Asset Management Program – What does it take to have an effective Asset Management function?</b>	Salon CD
	Richard Griffiths, <i>Meridian Energy</i>	
	Meridian Energy (ME) has a comprehensive Total Asset Management (AM) program within its hydropower fleet. In this overview of the AM program, ME's approach, execution, performance monitoring and measuring success will be discussed. Mr. Griffiths will also discuss the benefits of utilizing ISO 55000 as a basis of the program.	

11:00 am – 12:00 pm	<b>HP11: Hydro Plant Inflow Forecasting; Methodologies &amp; Software</b>	Salon CD
	Brennan Smith, <i>Oak Ridge National Lab</i> Ann McManamon, <i>Bonneville Power Administration</i>  The ability to forecast water inflows is the major factor allowing optimization of outage plans and minimization of lost opportunities. Dr. Brennan Smith will discuss general framework of such evaluations including economic environments and other factors influencing results as well as sensitivities of the results to normally observed variations of input variables. Ms. Ann McManamon will draw on her experience as a BPA hydrologist to discuss challenges of inflow forecasting in the Columbia River basin. Ms. McManamon is also a Vice Chair of CEATI's Hydro Operations Planning Interest Group and she is well familiar with respective reports and products available through CEATI's membership.	
12:00 pm – 1:00 pm	<b>Lunch Break</b>	Salon F
1:00 pm – 1:45 pm	<b>HP12: Meridian Energy's Lockout and Tagging – Work Control Procedures</b>	Salon CD
	Richard Griffiths, <i>Meridian Energy</i>  The Work Control Procedure used in Meridian Energy generating facilities to protect workers from hazardous energy sources will be discussed. The topics that will be covered are: Background to the incidents which triggered a review, the approach taken, key parts of the procedures, the communication with the wider industry, the benefits provided and the industry response.	
1:45 pm – 2:45 pm	<b>HP13: Decommissioning of Hydro Facilities Due to Relicensing Costs or Other Reasons</b>	Salon CD
	Wayne Allen, <i>Southern California Edison</i> Clark Bishop, <i>United States Bureau of Reclamation</i> Stephanie Maggard, <i>Pacific Gas &amp; Electric</i>  Current FERC relicensing processes are very expensive, resource intensive and time consuming. This puts a burden on all but particularly much more on smaller hydro projects. This session will provide the utility's perspective on the issue and their process for coming to a decision on the future of smaller capacity hydropower projects.	
2:45 pm – 3:15 pm	<b>Break</b>	Salon F
3:15 pm – 4:00 pm	<b>HP14: Generation Schedule Next Day/Next Week</b>	Salon CD
	Alex Mosely, <i>Tennessee Valley Authority</i>  Mr. Mosely will discuss TVA's process for developing the next day's power generation schedule incorporating the other water commitments such as water supply, recreation and navigation. The seven day forecast process will also be presented.	
4:00 pm – 4:30 pm	<b>HP15: ORNL Proposed Projects for FY 2018 of Interest to the HPC</b>	Salon CD
	Brennan Smith, <i>Oak Ridge National Laboratory</i>  In FY 2018, ORNL has several 'Hydro Power Fleet Intelligence' projects planned which may be of interest to HPC members. An overview of these projects and the ways HPC members could become involved will be discussed.	

## WEDNESDAY SEPTEMBER 20

8:00 am – 8:20 am	<b>HP16: HydroAMP Update</b> Gordon Ashby, <i>Bonneville Power Administration</i>  HydroAMP is a program in which condition assessments are captured for major hydroelectric generation equipment. It is an industry wide effort and provides a common set of definitions to rate and document the equipment's condition between generating facilities to improve asset management and investment decisions. This update will provide the present status of the program and future revisions.	Salon CD
8:20 am – 8:35 am	<b>HP17: EUCG – HPC Data Review Follow-Up</b> Matt Dau, <i>Bonneville Power Administration</i>  The HPC conducted its annual data review in July and the status of the action items will be reviewed.	Salon CD
8:35 am – 9:15 am	<b>HP18: EUCG – Staffing and Safety Surveys Results</b> Jim Miller, <i>Oak Ridge National Laboratory</i>  The EUCG – HPC in cooperation with the National Hydropower Association's Hydraulic Power Committee conducted a survey of safety performance in their member company's Hydro Business Unit (HBU) for 2016. The EUCG-HPC has just completed a HBU staffing survey among its members. The results of both surveys will be discussed.	Salon CD
9:15 am – 9:45 am	<b>HP19: HPC 2018 Spring Agenda Planning</b> Chris Utracki, <i>Ontario Power Generation, Hydro Committee Chair</i>  During this session we will develop the initial agenda for the spring 2018 HPC meeting. Please come prepared to suggest topics that you would like discussed or where you have something to share with the rest of the committee.	Salon CD
9:45 am – 10:15 am	<b>Break</b>	Salon F
10:15 am – 11:00 am	<b>HP20: HPC Business Report</b> Chris Utracki, <i>Ontario Power Generation, Hydro Committee Chair</i>  During this session we will discuss Committee's business matters.	Salon CD
11:00 am – 12:00 pm	<b>HP21: HPC Roundtable &amp; Action Item Review</b> Chris Utracki, <i>Ontario Power Generation, Hydro Committee Chair</i>  During this time in the agenda, 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.	Salon CD
11:00 am – 12:00 pm	<b>Boxed Lunches Provided</b>	Salon F
12:00 pm – 1:00 pm	<b>HPC Leadership Meeting (Working Lunch)</b> Chris Utracki, <i>Ontario Power Generation, Hydro Committee Chair</i>  The HPC leadership utilizes this opportunity to discuss HPC matters and is open to all members.	Salon CD









EUCG 2017 FALL WORKSHOP

# **NUCLEAR TRACK SCHEDULE**

**MONDAY SEPTEMBER 18**

8:00 am – 9:30 am	<b>EUCG Opening Session &amp; Welcome Address</b>	<i>Salon E</i>
9:30 am – 10:00 am	<b>Break</b>	<i>Salon F</i>
10:00 am – 11:00 am	<b>NC1: Introductions, General Business &amp; 2017 Strategic Plan Update</b> <i>David Ward, Duke Energy, Nuclear Committee Chair</i> <i>Josh Caulder, PSEG, Nuclear Committee Vice-Chair</i>  David Ward will kick-off the Nuclear Committee session of the Fall 2017 Nuclear Workshop, by facilitating the introduction of the workshop attendees, highlighting the workshop agenda and providing members with an update on the Nuclear Committee's business and related issues. Josh Caulder will provide the members with highlights of the EUCG Nuclear Committee 2017 Strategic Plan and an update on the key Tactical initiatives.	<i>Salon I</i>
11:00 am – 12:00 pm	<b>NC2: Presentation of Member Issues</b> <i>David Ward, Duke Energy, Nuclear Committee Chair</i>  David Ward will present the issues submitted by members prior to the workshop. The request for issues 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 NC4. The process to collect, disseminate and resolve issues will be included in the NC11 session.	<i>Salon I</i>
12:00 pm – 1:00 pm	<b>Lunch</b>	<i>Salon F</i>
1:00 pm – 2:00 pm	<b>NC3: Delivering the Nuclear Promise Program</b> <i>Jeff Davis, DTE Energy</i>  The 'Delivering the Nuclear Promise' Program (DNP) launched by the US nuclear energy industry is a multiyear initiative aimed to boost industry efficiency, safety and economic viability of the nuclear power plants. The EUCG Nuclear committed to maintain this program on its agenda for each Workshop to ensure that the members are appropriately informed and engaged in discussing and exchanging ideas related to the implementation of this program across the industry.  <b>The session will consist of two segments:</b> <ol style="list-style-type: none"> <li>1. Presentations on DNP cross-section initiatives – DTE Energy will present an update for Standardization of In-Process Training; Dominion will present an update for the Standardization of Design Change Process; Southern Nuclear will present Simplified and Enhanced Management Observation Techniques. These presentations will include summary insights into what they have learned and benefits achieved to date. This segment is open to other members to share their own experiences on these initiatives.</li> <li>2. Member roundtable - allowing members to provide similar insights/issues on the progress of the DNP within their respective companies. The context for this sharing was provided in an EUCG NC Chair communication in August, to allow for preparatory work for this session.</li> </ol>	<i>Salon I</i>

2:00 pm – 2:45 pm	<b>NC4: Discussion of Member Issues</b> <i>David Ward, Duke Energy, Nuclear Committee Chair</i> <p>David Ward will facilitate the discussion of the issues submitted and presented by members in NC2. This discussion on member issues serves to encourage member interaction with their peers during the workshop. Where possible, the answers to the issues can be provided during this session. If further discussion is required, members have an opportunity to meet with their counterparts at the conclusion of the day to discuss in more detail. If the issue is deemed a major one, it will be discussed further in NC6.</p>	Salon I
2:45 pm – 3:00 pm	<b>Break</b>	Salon F
3:00 pm – 3:45 pm	<b>NC5: Staffing Assessment Survey Results &amp; Operating/Staffing Database Alignment</b> <i>Laurie Loveland, DTE Energy</i> <i>Billy Carlton, Arizona Public Service</i> <p><b>The session will consist of two segments:</b></p> <ol style="list-style-type: none"> <li>1. Laurie Loveland, Staffing Task Team Lead, will present the final structure for collecting operating cost data and staffing data which will provide clear alignment between the two databases. The implementation of the new structure will be the next reporting cycle using 2017 data which will be requested in January 2018. These structures will be included in the EUCG Nuclear Committee Survey Training scheduled for November 2017.</li> <li>2. An additional objective of the EUCG Staffing Task Team was to perform an assessment regarding the understanding / knowledge of the EUCG Nuclear Committee Staffing Database within the nuclear industry. A survey was conducted with the Nuclear Committee members to collect the information. Billy Carlton will present the survey findings and recommendations to promote the database as the recognized source of nuclear staffing data.</li> </ol>	Salon I
3:45 pm – 4:15 pm	<b>NC6: Major Nuclear Issues Discussion – Purpose/Scope/Team Leader</b> <i>David Ward, Duke Energy, Nuclear Committee Chair</i> <p>David Ward will continue the discussion regarding the issues submitted by members in order to determine those deemed to be Major Issues. The issues will be discussed and ranked to effectively utilize the experienced resources present at the workshop. There are typically a maximum of 4 Major Issues addressed at each workshop, given the resources available. Workshop attendees will choose which issue they will work on and then the collected “breakout” teams will determine the purpose / scope / team logistics for the assigned Major Issue. The expectation is that the Breakout Team members will present their proposals / resolution at the close of the workshop on Wednesday morning during NC16 session.</p>	Salon I
4:15 pm – 4:30 pm	<b>NC7: Day One Wrap-Up &amp; Next Day Plan</b> <i>Josh Caulder, PSEG, Nuclear Committee Vice-Chair</i> <p>Josh Caulder will close the day’s sessions with a wrap up and next day highlights. At the conclusion of this session it also allows an opportunity for members to network with their counterparts to discuss details/ answers to questions raised in NC2 and NC4.</p>	Salon I



**TUESDAY SEPTEMBER 19**

8:00 am – 9:00 am	<b>NC8: Nuclear Integrated Information Database (NIID) Enhancements</b> <i>Christine Messer, Nuclear Committee Database Manager</i>  Christine Messer will present the latest upgrades to NIID. These include enhancements to the data definition, new reports, and training tools.	<i>Salon I</i>
9:00 am – 9:45 am	<b>NC9: Review Sharing &amp; Providing Access to EUCG Data Products</b> <i>Christine Messer, Nuclear Committee Database Manager</i>  The EUCG Nuclear Committee governance document regarding the sharing of EUCG data is “NC-ADM-06 EUCG Data Sharing and Providing Access.” Recently, this document was revised to enhance the security regarding the exchange of EUCG data both within member companies and to external sources. This session will present the changes and provide an overview of this governance document.	<i>Salon I</i>
9:45 am – 10:00 am	<b>Break</b>	<i>Salon F</i>
10:00 am – 11:00 am	<b>NC10: Cost-Effective Operation</b> <i>Brent Ridge, VP Corp Services/CFO/CRO, Energy Northwest</i>  Brent Ridge will present Energy Northwest’s plan for cost reduction. The Northwest Region has been impacted by significant downward pressure on the wholesale market prices for electricity. Working with Bonneville Power Administration, to support their Focus 2028 efforts, Energy Northwest continues to implement cost reductions while maintaining safe reliable operation. Expectation is workshop attendees will leave the presentation with a better understanding of how Energy Northwest, Columbia Generating Station, has implemented plans to remain cost competitive (Staff Reductions, DNP, Attrition Management, Long Range Planning, etc.). Time will be provided for an open discussion at the end of the presentation.	<i>Salon I</i>
11:00 am – 12:00 pm	<b>NC11: Workshop Format Enhancements</b>  As an ongoing effort to continuously improve information exchange and provide a vibrant and meaningful workshop for the Nuclear Committee members, this session will discuss enhancements to the workshop format and gather input from the attendees. It is important the workshops are structured in the most optimum manner to provide participants with value added results for themselves and their companies.	<i>Salon I</i>
12:00 pm – 1:00 pm	<b>Lunch</b>	<i>Salon F</i>
1:00 pm – 2:00 pm	<b>NC12: Decommission Database/Best Practice Template</b> <i>Kelly Young, Pacific Gas &amp; Electric, Decommissioning Task Team Lead</i>  Kelly Young will present the findings from the Decommissioning Task Team. This team’s purpose was to investigate the possibility of EUCG Nuclear Committee implementing a Decommission Database. The team’s objectives were to propose a structure and guidelines for EUCG’s role in collecting decommissioning cost data and facilitating best practice discussions / information exchange.	<i>Salon I</i>



2:00 pm – 2:45 pm	<b>NC13: Project Execution Effectiveness in a Regulated Environment</b>	Salon I
	David Free, <i>Ontario Power Generation</i>	
	David Free is a Senior Manager, Financial Forecasts, at Ontario Power Generation, and will present an overview of the importance of assets developed and brought into service under a cost of service model in a rate regulated environment. He will also discuss metrics that OPG had identified and sought from EUCG peers to enhance internal processes surrounding project execution effectiveness. OPG operates the Darlington Nuclear Generating Station and the Pickering Nuclear Generating Station, which have a generating capacity of 3,500 MW and 3,100 MW, respectively.	
2:45 pm – 3:00 pm	<b>Break</b>	Salon F
3:00 pm – 3:45 pm	<b>NC14: Major Issues Discussion/Finalize Wednesday Presentations</b>	Salon I
	The Major Issues Breakout Teams continue developing Task Charter. They identify how they see the issue being resolved. The issues, problem statement, the expected end product and the benefit statement must be stated as best as can be with available information. Teams prepare a short presentation of findings and recommendations.	
3:45 pm – 4:00 pm	<b>NC15: Day Two Wrap-Up &amp; Next Day Plan</b>	Salon I
	Josh Caulder, <i>PSEG, Nuclear Committee Vice-Chair</i>	
	Josh Caulder will close the day's sessions with a wrap up and next day highlights. Breakout teams can utilize the time after this session to finalize presentations for Wednesday morning.	

## WEDNESDAY SEPTEMBER 20

8:00 am – 9:00 am	<b>NC16: Breakout Team Presentations</b>	Salon I
	The Breakout Team Leads present the Charters to the workshop attendees. The attendees provide feedback on the presentations. The draft charters are provided to the Nuclear Chair for discussion with the Nuclear Leadership Team regarding disposition (resources, timelines etc.).	
9:00 am – 9:45 am	<b>NC17: Summation of Fall 2017 Workshop Actions &amp; Roundtable</b>	Salon I
	Josh Caulder, <i>PSEG, Nuclear Committee Vice-Chair</i>	
	Josh Caulder will wrap-up the workshop action items and solicit member feedback on the workshop content and facilities.	
9:45 am – 10:15 am	<b>Break</b>	Salon F
10:15 am – 11:00 am	<b>NC18: Overview of Spring 2018 Workshop Agenda</b>	Salon I
	David Ward, <i>Duke Energy, Nuclear Committee Chair</i>	
	David will provide an overview of the Spring 2018 Workshop agenda in San Antonio in April 2018 and officially close the workshop.	
11:00 am – 12:00 pm	<b>Boxed Lunches Provided</b>	Salon F
11:00 am – 3:00 pm	<b>Nuclear Leadership Team Meeting</b>	Salon I
	Nuclear Leadership Team members only.	







EUCG 2017 FALL WORKSHOP

# **T&D TRACK SCHEDULE**



## MONDAY SEPTEMBER 18

8:00 am – 9:30 am	<b>EUCG Opening Session &amp; Welcome Address</b>	Salon E
9:30 am – 10:00 am	<b>Break</b>	Salon F
10:00 am – 11:00 am	<b>TD1: Welcome &amp; Introductions</b> Eileen Brannon, <i>Oncor</i> , 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.	Salon G
11:00 am – 12:00 pm	<b>TD2: Innovation: Integrating New Technology in the Field – Use of Unmanned Aerial Systems (UAS) Technology for Damage Assessment</b> Martin Narendorf, <i>CenterPoint</i>  CenterPoint Energy is developing various phases of the use of UAS technology for damage assessment of its transmission and distribution system and other purposes. Demonstration footage available through the application of this technology and the various uses and aspect of the program at CNP will be explored in this presentation.	Salon G
12:00 pm – 1:00 pm	<b>Lunch</b>	Salon F
1:00 pm – 1:45 pm	<b>TD3: Operations: Preserving Tribal Knowledge</b> Randy Beene, <i>Oncor</i>  Many Electrical Utilities are facing the same challenge. A significant percentage of operational experience gained over the last 30–40 years is walking out the door. Do you just accept it or do you try to do something about it? Oncor is leveraging its Transmission GIS to capture some of that Tribal Knowledge.	Salon G
1:45 pm – 2:30 pm	<b>TD4: Operations: Human Performance Improvement</b> Ron Kinard, <i>Oncor</i> Katie Smith, <i>Oncor</i>  Since the early 1980s, the electric utility industry has had some awareness of the need for a more purposeful management of human elements in the conduct of business. In the beginning, the primary adopters were those with nuclear generation. Today, one can find a spectrum of human performance improvement programs across the industry including within utility Distribution and Transmission functional areas.  Oncor is currently developing and piloting a formal program to be implemented at one location. This discussion will provide a new view of how human performance improvement principles can be used to improve organizational performance.	Salon G
2:30 pm – 2:45 pm	<b>TD5: T&amp;D Member Success Stories</b> Committee members will be invited to share brief discussions of various success stories they have experienced in the past year. These discussions often lead to more in depth discussions and presentations in future workshops.	Salon G

2:45 pm – 3:15 pm	<b>Break</b>	Salon F
3:15 pm – 4:15 pm	<b>TD6: Operations: Stepping Up Data Requests – Best Practice Efficiency Metrics Round Table</b>  Julie Hinkle, <i>Hawaiian Electric</i> Duncan Brooks, <i>American Transmission Company</i>  The T&D Committee in its desire to “step-up” its tangible cost data deliverables has determined to be more focused on its data requests. Hawaiian Electric is developing Best Practice Efficiency Metrics identified across the Company in areas like Energy Delivery, System Operations, Safety and Security, Asset Management, etc. This idea of Best Practice Metric as it relates to efficiencies and cost may be a method to help the committee achieve that focus. Hawaiian Electric and ATC will lead a round-table discussion on this topic challenging members to come prepared with talking points from their utilities to move both this topic and cost deliverables forward.	Salon G
4:15 pm – 5:00 pm	<b>TD7: Daily Wrap-Up &amp; General Discussion</b>  Amy Harris, <i>Tennessee Valley Authority, T&amp;D Committee Vice-Chair</i>  Time will be taken to discuss the day’s activities: Were expectations met? What additional information might be of help? What new topics have come up as a result of these discussions?	Salon G

## TUESDAY SEPTEMBER 19

8:00 am – 9:00 am	<b>TD8: Innovation: Reviewing the Exelon Innovation Expo</b>  Belinda Kargbo, <i>Exelon - Pepco Holdings</i> Garfield Mullings, <i>Exelon– ComEd</i>  Exelon’s creative and inventive minds were on display at the 2017 Exelon Innovation Expo. This year’s theme showcased their “Customer Centricity” journey – it’s what they do to give customers more reliable, safe and clean energy. Exelon employees displayed nearly 500 projects for the Innovation Contest. The contest is the centerpiece of the Expo, and around it are breakout sessions, panels and discussions between Exelon executives and many partnering companies, including GE, Microsoft, Proterra, Oracle, Verizon, AT&T and more.	Salon G
9:00 am – 9:45 am	<b>TD9: Technology: Collection of Data &amp; its Use in Predictive Analytics</b>  Duncan Brooks, <i>American Transmission Company</i>  ATC has conducted benchmarking to gather insights from peer utilities and other industries on best practices around a successful Data Analytics strategy: <ul style="list-style-type: none"> <li>– To ensure that we can benefit from new solutions,</li> <li>– Ensure the analysis is meaningful and useful,</li> <li>– Develop a sound governance structure.</li> </ul> This presentation will address the process ATC has followed and the results of these efforts.	Salon G
9:45 am – 10:15 am	<b>Break</b>	Salon F

10:15 am – 11:00 am	<b>TD10: Safety: PSEG 2017 Safety Symposium Recap</b>	Salon G
	Joe Martucci, <i>PSEG, T&amp;D Committee Vice-Chair</i>	
	Joe will share the key learnings from the Gas and Electric Utility Peer Panel Best Practices Symposium held earlier this year. Topics to be covered are Employee Fatigue and Safety with highlights from speakers from the NYC MTA, NTSB and the CDC; and the Use of Lean Six Sigma for Process Improvements.	
11:00 am – 12:00 pm	<b>TD11: Technology: Taking Mobility Seriously</b>	Salon G
	Amy Harris, <i>Tennessee Valley Authority, T&amp;D Committee Vice Chair</i>	
	Amy will discuss TVA's 10 year 'going mobile' story; where they were when they started with Syclo software, how they implemented a tablet deployment, and the internal development route chosen to replace Syclo with Mobile Work Order. She will also discuss where they are going with a full transition to paperless as well as their transition to Mobile Asset Manager.	
12:00 pm – 1:00 pm	<b>Lunch</b>	Salon F
1:00 pm – 2:00 pm	<b>TD12: Operations &amp; Safety: Root Cause Analysis &amp; the Oncor SCAN App</b>	Salon B
	<i>(Joint Session with Fossil Committee)</i>	
	David Kole, <i>Oncor</i> Don Barnett, <i>CPS Energy</i> Steve Royall, <i>Pacific Gas &amp; Electric</i>	
	Root Cause analysis is not just for Safety Incidents anymore; it is for everyday use. This session will focus on the use of RCA across all aspects of operations and highlight the Oncor SCAN app. Oncor has developed internal processes, training, and the app to be provided to all employees relating to root cause analysis and evidence preservation. Oncor will discuss the training given to all employees, the app and the data collected to date from the use of the app.	
2:00 pm – 2:45 pm	<b>TD13: T&amp;D Member Success Stories</b>	Salon G
	Committee members will be invited to share brief discussions of various success stories they have experience in the past year. These discussions often lead to more in depth discussions and presentations in future workshops.	
2:45 pm – 3:15 pm	<b>Break</b>	Salon F
3:15 pm – 4:00 pm	<b>TD14: Safety: Exploring Safety Analytics – Round Table</b>	Salon G
	Amy Harris, <i>Tennessee Valley Authority, T&amp;D Committee Vice Chair</i> Duncan Brooks, <i>American Transmission Company</i> Kurt Weisman, <i>American Transmission Company</i>	
	Improving your analytics starts with knowing your data and how to leverage what's available to you. How do you know if you really identified the issues? What about job changes or production pressure? TVA and ATC will lead a round table discussion addressing what is currently being done in Safety Analytics and where the industry is heading in the future.	



## TRANSMISSION & DISTRIBUTION COMMITTEE SESSIONS

4:00 pm – 5:00 pm **TD15: Daily Wrap-Up & General Discussion** *Salon G*

Amy Harris, *Tennessee Valley Authority, T&D Committee Vice-Chair*

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

### WEDNESDAY SEPTEMBER 20

8:00 am – 8:45 am **TD16: Operations: Redefining Project Closeout at AEP & the Lessons Learned** *Salon G*

Eric Fones, *American Electric Power*

AEP is currently gathering data points on recently closed projects into a database for statistical analysis and predictive analytics to better plan their projects.

8:45 am – 9:45 am **TD17: Technology: The Digital Workforce & Wearable Technology** *Salon G*

Aretha Calloway, *Exelon - Pepco Holdings*

Exelon has undertaken a 'Digital Worker Strategy.' The vision of this strategy is to equip the field force with cutting edge technology to improve safety, drive efficiency, and transform the customer experience. Each Exelon Utility has made investments in the Digital Worker in varying degrees. This discussion will focus on the current use of technology at the Exelon utilities, and where they are going next.

9:45 am – 10:15 am **Break** *Salon F*

10:15 am – 11:00 am **TD18: Workshop Wrap-Up & Agenda Planning & General Work Session** *Salon G*

Eileen Brannon, *Oncor, T&D Committee Chair*

Time will be taken to discuss the day's activities: Were expectations met? What additional information might be of help? Focus will be placed on developing potential agenda topics for the Spring 2018 Workshop.

11:00 am – 12:00 pm **Boxed Lunches Provided** *Salon F*









# EUCG 2018 SPRING WORKSHOP

APRIL 22-25 | HYATT REGENCY SAN ANTONIO | SAN ANTONIO, TEXAS



**EUCG™**  
Your Energy Information Source





**EUCG™**  
Your Energy Information Source

11130 Sunrise Valley Drive, Suite 350  
Reston, Virginia 20191

T 703.435.4390 | F 703.435.4390  
[www.eucg.org](http://www.eucg.org)

