ADMS & DERMS
Enabling the Utility of the Future

May 2-3, 2019
Exelon Offices - Edison Place
Washington, DC

“Great presentations for those embarking on the ADMS and DERMS journey, I learned what we will encounter and expect”

Distribution System Operator, PPL

CASE STUDIES FROM
Arizona Public Service
CenterPoint
Sacramento Municipal Utility District

PRE-CONFERENCE WORKSHOP
ADMS and DERM Systems: The Fundamentals, Past, Present and Future
WEDNESDAY, MAY 1, 2019

HOST UTILITY
Exelon

SPONSORS

EUCI is authorized by IACET to offer 1.1 CEUs for this conference and 0.6 for the workshop
OVERVIEW

The “Utility of the Future” is here and the amount of data now being provided to distribution operators requires upgrading their operational control. Combined with a more demanding customer base, ADMS and DERMS offer technological solutions to integrate:

• Increasing penetration of distributed energy resources (DER), including distributed generation, distributed storage, demand response, and Microgrids
• New regulatory regimes
• Heightened physical and cyber security threats
• Aging utility infrastructure and workforce
• Potential and actual structural changes to the distribution business model
• Prepare to integrate ever higher levels of Distributed Energy Resources (DER) effectively and without disruption into the system

This conference is meant for utility distribution management practitioners who have identified the need for upgrading their distribution management systems, outage management systems and how to manage the distributed resources coming their way.

The conference will provide useful and actionable information from a variety of utility case study type presentations, plus a unique Vendor Panel and presentations from the most advanced technology providers in the industry.

Case studies are from these utilities implementing ADMS and DERMS technologies:
• Sacramento Municipal Utility District
• Arizona Public Service

LEARNING OUTCOMES

• Reveal how the “Utility of the Future” uses ADMS
• Address the fundamentals of ADMS (Advanced Distribution Management System), DMS (Distribution Management System) and provide a glossary of terminology specific to them
• Explain what is a DMS and ADMS system and how it functions and their purpose within a utility
• Reveal how the “Utility of the Future” is enabled by ADMS & DERMS technology for greater customer satisfaction, reliability and implementing more distributed generation
• Discover how a utility was able to create a business case, procure, implement a successful ADMS project
• A large municipal utility is implementing an ADMS to improve the management and control of the distribution system, enhance distribution planning function, optimize the distribution system and improve forecasting accuracy
• Hear from the most qualified Vendors providing ADMS technology and guidance to assist a utility in making specific choices to procure, implement and make successful an ADMS
• Gain a background and better insight into DER interconnection and how DERMS technology will be developed, standardized and regulated for better control over higher penetration of DER
• Review a current utility who is going through a DERMS technology implementation and hear of others who are doing pilot programs
• Hear from a Panel of DERMS technology vendors what their strategies are, their approach to DERMS, about their product & services and how they forsee DERMS implementation into the future

WHO SHOULD ATTEND

This conference was developed for those working or specializing in the following areas:
• Managers, Directors and Supervisors of Distribution Operations and Management
• IT Managers, Directors and Supervisors
• Utility personnel tasked with implementing/upgrading their OMS, DMS, ADMS and DERMS solutions
• Regulators who wish to better understand the decision making utilities undergo
• Vendors who wish to learn from utilities implementing new systems
AGENDA

THURSDAY, MAY 2, 2019

7:30 – 8:00 am  Registration and Continental Breakfast

8:00 – 8:15 am  EUCI Safety and Agenda Overview

8:15 – 9:30 am  Host Utility Welcome
   John Ryan, Director, Strategic Projects, Exelon

Exelon’s Utility of the Future
The Exelon Utilities have begun a journey to define what the “Utility of the Future” means across our Operating Companies, what role does the utility itself play, and how customer expectations and technology are changing at a rapid pace. Discuss some key points in defining the Utility of the Future and our path to the next 10 years.
   Stacy Woodward, Director, Utilities IT Strategy, Governance & Planning, Exelon
   Tim Webster, Director, Utility of the Future and Smart Meter Services, Exelon

Exelon’s ADMS Program Overview
The ADMS Program was launched to: Implement functions and capabilities that will serve as the foundation for Distribution Operations to operate the complex grid of the future; Enable the distribution system to adapt and transform in support of the changing customer needs and market shifts anticipated by this strategy. An overview of the journey from ideation to a fully engaged program.
   John Ryan, Director, Strategic Projects, Exelon

9:30 – 10:15 am  Arizona Public Service
   APS has completed its ADMS implementation. This session will go through the entire process of developing a business case, how the network mapping was done, the RFP process and then the actual systems integration from cross-functional teamwork to extensive management buy-in.
   Donna Lamar, IT Manager, Distribution Applications, APS
   Mark Haugh, Manager of Technology Assessment, APS

10:15 – 10:45 am  Morning Break

10:45 – 11:30 am  Sacramento Municipal Utility District
   SMUD is currently deploying an Advanced Distribution Management System (ADMS) and Distributed Energy Resource Management System (DERMS) as an integrated platform that enables Distribution System Operations and Distribution System Engineers to manage, control and optimize the Distribution system with real-time analytics for an efficient and reliable grid. This fully integrated platform will enable SMUD to mitigate impacts of DERs as well as dispatch DERs for economic benefits, capacity relief, localized voltage and power support, and negative price mitigation.
   Lora Anguay, Director, Distribution Operations, SMUD
   Katarina Miletijev, Principal Distribution Operations Engineering, SMUD

11:30 am – 12:15 pm  FirstEnergy Case Study; OMS/ADMS History, Evolution and Strategy for the Future
   Spanning 5 states, including ten regulated electric distribution companies, supporting approximately six million customers, and eight distribution control centers – FirstEnergy has a unique set of operational and evolving requirements for the future. As a forward thinking electric utility and the support of a diverse team of employees committed to their customers, FirstEnergy has embarked on a series of programs to replace legacy applications and extend their capabilities to enable a modern grid platform designed to support the future needs of their customers. Discussion will include highlights of their advanced centralization of business processes and systems across their operations. As well as their new ADMS/GIS journey to date with details on their strategy for the future.
   Sherry Scheeler, Director – ADMS & GIS Transformation Project, FirstEnergy
   Tiffany Shepard, Manager – ADMS & GIS Transformation Project, FirstEnergy
   Jerry Utech, Senior Director, Operational Technologies, Oracle Utilities
THURSDAY, MAY 2, 2019 (CONTINUED)

12:15 – 1:15 pm  Group Luncheon

1:15 – 2:00 pm  **CenterPoint Energy Case Study**

CenterPoint Energy: An ADMS Procurement, Implementation and Results Story. CenterPoint Energy procured an ADMS system and it was fully implemented in 2016. This case study will overview the entire process and provide up to the minute stats and the industry leading results of its use during normal operations and extreme stress, a major flood, a substation failure and then Hurricane Harvey.

**Getting Started**
- The internal business case
- The RFF process and making procurement decisions
- Project startup

**Implementation Phase**
- Major tracks and phases of project
- Expected and unexpected challenges encountered
- Change management
- Risk Management
- Personnel and project management

**Project Completion, Post Mortem and Data/Results**
- Go-live
- Reaching a steady state
- Results, data and continuous improvement information relevant for utilities

*Colby Gravatt, Manager Distribution Control, CenterPoint Energy*

2:00 – 2:45 pm  **“Why it’s too late to rely on the ADMS network validation – a realization to near real time process flows”**

In this session you will gain understanding of the expectancy of the source data in the ADMS workflows and the urgencies observed when data does not properly promote into the operators working displays. Although the modern ADMS has adequate validation, the source data is commonly validated immediately before energization. These last minute quality processes put the data promotion teams in a scramble when errors messages reject the changes to the system. Learn how to minimize the errors in the data promotion activities by moving quality controls into early stages of the design and build processes.

*Larry Wilke, IT/OT Convergence Manager, POWER Engineers*

2:45 – 3:15 pm  **Afternoon Break**

3:15 – 4:00 pm  **Vendor Short Presentations**

4:00 – 5:30 pm  **Vendor Panel Discussion**

Four of the most qualified companies will present on their ADMS and DERMS solutions and systems, each will have a 15 minute session including Q&A and then will sit on a Panel for questions from the attendees.

*Moderator: Tom Servas, Executive Vice President, GridBright*

- Simon Crisp, SVP Product Management Network Control, Enterprise Software, ABB
- Avnaesh Jayantilal, ADMS Product Director, GE Power
- Hormoz Kazemzadeh, Vice President of Distribution and Smart Grid, OSI
- Scott Koehler, VP, Global Strategy – SGIT, Schneider Electric
- Brad Williams, VP of Industry Strategy, Oracle
- Dan Beasley, Director, Utility Practice, Cyient, Inc.

5:45 – 7:00 pm  **Networking Reception**
AGENDA

FRIDAY, MAY 3, 2019

8:00 – 8:30 am  Continental Breakfast
8:30 – 8:45 am  Welcome and Review of Previous Day, Q&A
8:45 – 9:15 am  Why the IEEE P2030.11 DERMS Working Group is Needed
This presentation will give an overview of the operational challenges with higher penetration PV, inverter standards trends, why ADMS and DERMS are being considered, and potential new utility business models around transactive energy. It will also provide insight into the new IEEE 2030.11 DERMS Working Group, its purpose, current status and the functional guidelines that are being discussed.
John Barnick, Member, IEEE 2030.11 Working Group

9:15 – 10:00 am  The Relationship of ADMS and DERMS
Utility interest in implementing ADMS and DERMS has grown significantly in the last several years, but many in the industry still conflate the functionality of these platforms. In this presentation, EnergyHub will examine the relationship between the two systems and discuss how a DERMS that is capable of providing customer enrollment, device registration, and resource formation services from the substation to behind-the-meter can work with an ADMS to provide targeted grid services.
Varun Mehra, Product Manager, EnergyHub

10:00 – 10:30 am  A Smarter System of Systems; ADMS, DERMS
How to bridge leverage legacy systems, build your technology roadmap and drive actionable data insights to deliver results. Emerging capabilities within ADMS/DMS and DERMS are core to grid operations today and tomorrow, but how do you achieve results and build a technology ecosystem that supports key initiatives for distribution integrity today. The convergence of grid applications may change how you move forward and need better operation across systems to achieve targets.
Ann Perreault, Global Product Leader, Connected Utility Solutions, Honeywell

10:30 – 11:00 am  Morning Break
11:00 am – 1:00 pm  DERMS Vendor Panel
This Panel Discussion will have qualified DERMS providers provide their views on the development of the DERMS marketplace and how utilities will be utilizing such software integration into the future.
Moderator: Terry Nielsen, Executive Vice President, GridBright
Simon Crisp, SVP Product Management Network Control, Enterprise Software, ABB
Hormoz Kazemzadeh, Vice President of Distribution and Smart Grid, OSI
Scott Koehler, VP, Global Strategy – SGIT, Schneider Electric
Brad Williams, VP of Industry Strategy, Oracle
Patrick Lee, President, PXiSE Energy Solutions, LLC
Mike Unum, Senior Product Manager, GE Power

1:00 pm  Conference Wrap-up and Adjournment

“I would recommend this classroom event to any utility wanting to learn about the latest ADMS and DERMS technology and their impact on their customers”

Director, ABB
PRE-CONFERENCE WORKSHOP
ADMS and DERM Systems:
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WEDNESDAY, MAY 1, 2019

LEARNING OUTCOMES

• Discuss industry trends driving ADMS and DERMS
• Identify key questions being answered by industry leaders today
• Explain key terminology used throughout the industry

WORKSHOP AGENDA

WEDNESDAY, MAY 1, 2019

8:00 – 8:30 am  Registration & Continental Breakfast
10:30 – 10:45 am  Morning Break
8:30 am – 12:00 pm  Segment 1: ADMS Fundamentals
1. ADMS Fundamentals
2. ADMS Modular Architecture
3. DMS Functions
   a. Switching Management
   b. Permits, Clearances, and Tags
   c. Suggested Switching
   d. Operator’s Power Flow
   e. Load Modeling
   f. Distribution State Estimation
   g. Volt-VAR Optimization
   h. Conservation Voltage Reduction
   i. Demand Management
   j. Fault Locating and Restoration (FLISR)
   k. Impacts of Distributed Resources and Renewables
12:00 – 1:00 pm  Group Luncheon
2:30 – 2:45 pm  Afternoon Break

“The slides and presentations are very good, I wish I had them when I first got started on the DMS effort”

Manager DMS, SMUD
WORKSHOP AGENDA

WEDNESDAY, MAY 1, 2019 (CONTINUED)

1:00 – 4:00 pm  Segment 2: DERMS Fundamentals

1. DERMS Solution Categories
   a. Centralized vs Decentralized
   b. Network Aware
   c. MW vs MW/MVAR
   d. Steady State vs Dynamic
   e. ADMS Embedded vs DMS Supplements
   f. Hosted vs License Solutions
   g. DERMS Commercial Product Offerings
   h. Communication Protocols
   i. Solution Fit for Various Utility Types

WORKSHOP INSTRUCTORS

Terry Nielsen
Senior Vice President, GridBright

Terry Nielsen is a world class consultant specializing in power industry network management systems (NMS). He has served over 50 electric utilities in 5 continents, improving their distribution network management and emergency response. He has served on the DistribuTECH Advisory Board since 2001.

He is active in the IEEE reliability working group, IEC CIM standard, the NRECA MultiSpeak specific, and NERC Electricity Sector Information Sharing Task Force. As a Senior Vice President of GridBright, Terry has the overall responsibility for service deliver to the company's clients. Prior to GridBright he held senior management roles at UISOL (now a GE Grid Solutions Company), CES International, SPL Worldgroup, Oracle, and Alstom (now GE Grid Solutions).

Travis Rouillard
Chief Technology Officer, GridBright

Travis Rouillard is the Chief Technology Officer of GridBright. He has over twenty years of experience building and deploying utility software solutions.

Prior to GridBright, Travis has held senior roles at GE, Alstom, UISOL, and Pacific Gas and Electric (PG&E). He has led technical architecture, development, and integration of IT/OT systems at large utilities, small munis, regional transmission operators, wholesale trading firms, and retail energy services companies.

For much of the last decade, he has specialized in solutions for Distributed Energy Resources Management (DERMS). In his prior role at Alstom (now GE), he was the global product manager for Demand Response and Distributed Energy Resources solutions. He was also the global product manager for Market Management Systems (MMS), a product line which handles trading, clearing, settlement, and analytics for some of the world’s largest electricity market operators. He has deployed highly-distributed, real-time, middleware solutions for trading and risk management at PG&E, Ernst&Young, and Bank of America.

Travis has an MBA from St Mary's and a BS in computer science from UC San Diego.
INSTRUCTIONAL METHODS

Case Studies, Panel Discussions and PowerPoint presentations.

REQUIREMENTS FOR SUCCESSFUL COMPLETION

Participants must sign in/out each day and be in attendance for the entirety of the conference to be eligible for continuing education credit.

IACET CREDITS

EUCI has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET). In obtaining this accreditation, EUCI has demonstrated that it complies with the ANSI/IACET Standard which is recognized internationally as a standard of good practice. As a result of their Authorized Provider status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standard.

EUCI is authorized by IACET to offer 1.1 CEUs for this conference and 0.6 for the workshop.

REGISTER 3, SEND THE 4TH FREE

Any organization wishing to send multiple attendees to this conference may send 1 FREE for every 3 delegates registered. Please note that all registrations must be made at the same time to qualify.

EVENT LOCATION

Exelon Offices - Edison Place
701 Ninth Street, N.W.
Washington, D.C. 20068

NEARBY HOTELS

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<th>Address</th>
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<tbody>
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REGISTRATION INFO

Mail Directly To:

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Denver, CO 80237

OR, scan and email to: conferences@euci.com

WWW.EUCI.COM
p: 303-770-8800
f: 303-741-0849

PLEASE SELECT

☐ SPECIAL BUNDLE PRICE: ADMS & DERMS CONFERENCE AND PRE-CONFERENCE WORKSHOP: MAY 1-3, 2019: US $2195
EARLY BIRD on or before APRIL 12, 2019: US $1995

☐ ADMS & DERMS CONFERENCE ONLY:
MAY 2-3, 2019: US $1395
EARLY BIRD on or before APRIL 12, 2019: US $1195

☐ PRE-CONFERENCE WORKSHOP ONLY:
WEDNESDAY, MAY 1, 2019: US $995
EARLY BIRD on or before APRIL 12, 2019: US $895

☐ I'M SORRY I CANNOT ATTEND, BUT PLEASE EMAIL ME A LINK TO THE CONFERENCE PROCEEDINGS FOR US $395

Substitutions & Cancellations
Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before March 29, 2019 in order to be refunded and will be subject to a US $195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of conference cancellation, EUCI’s liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices at 303-770-8800.

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See nearby hotels on page 8

ENERGIZE WEEKLY

Energize Weekly is EUCI’s free weekly newsletter, delivered to your inbox every Wednesday. We provide you with the latest industry news as well as in-depth analysis from our own team of experts. Subscribers also receive free downloadable presentations from our past events.

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How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

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Company

What name do you prefer on your name badge?

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List any dietary or accessibility needs here

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