ADMS & DERMS  How to Successfully Assess, Procure, Implement and Operate

May 1 – 2, 2018
Automation and Power Center
Houston, TX

PRE-CONFERENCE WORKSHOP
MONDAY, APRIL 30, 2018

“Great seminar with utility presenters.”
Director, Advanced Control Systems

SPONSORS
OVERVIEW

Distribution operators face a formidable challenge in the coming years. They need to keep the lights on, and increase reliability to suit 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:
- CenterPoint Energy
- Consolidated Edison
- Sacramento Municipal Utility District

LEARNING OUTCOMES

- 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
- Discover how one utility was able to create a business case, procure, implement and then successfully operate an ADMS under extreme conditions of floods and substation malfunction
- Review how 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
- Explore how a utility is implementing IT solutions including ADMS as part of an major AMI (Advanced Metering Infrastructure) project across two operating utilities
- 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
TUESDAY, MAY 1, 2018

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

8:30 – 8:45 am  
EUCI Safety and Agenda Overview

8:45 – 9:00 am  
Welcome by Conference Chair

9:00 – 9:30 am  
Opening Remarks, Glossary of Terms and Intro to ADMS

Terry Nielsen, Executive Vice President, GridBright
Tom Servas, Executive Vice President, GridBright

A presentation on industry trends including distributed energy resources, analytics, and grid edge devices and how they are driving ADMS and DERMS markets. This will highlight some of the freshest questions facing the industry today that are being addressed by the industry leading experts sharing their knowledge in this conference. And finally, it will define important terminology and concepts that will be used extensively during the conference.

9:30 – 10:30 am  
CenterPoint Energy: ADMS Procurement, Implementation and Usage, Success During Duress

CenterPoint Energy procured an ADMS system and it was fully implemented in 2016 just as the flood of the century hit Houston that Spring. This Case Study will overview the entire process and provide up to the minute stats and the industry leading results of its use during an extreme stress periods in the past two years to include a substation fire and Hurricane Irene

Getting Started
- The internal business case
- The RFP 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 and Post Mortem
- Go-live
- Reaching a steady state
- The use of the new ADMS during the historic floods of 2016
- Present actual statistics from that flood, plus a loss of a 300 MW substation

Rick Morton, Operations Manager for Distribution Control, CenterPoint Energy

10:30 – 11:00 am  
Networking Break

11:00 am – 12:00 pm  
Sacramento Municipal Utility District

SMUD is procuring an Advanced Distribution Management System (ADMS) software and working with an associated system integrator services in the design, configuration, integration, testing, training, and deployment of ADMS. The solution must be a fully functional, state-of-the-art ADMS to improve the management and control of the distribution system, enhance distribution planning functions, optimize the distribution system, and improve forecasting accuracy.

Lora Anguay, Director, Distribution Operations, SMUD
Katarina Miletić, Manager, Distribution Operations Engineering, SMUD

12:00 – 1:00 pm  
Group Luncheon
1:00 – 1:45 pm  Consolidated Edison and Orange & Rockland
We at Con Edison have embarked on an initiative to further enhance our world-class customer support by establishing a new level of customer communication and coordination with our NYC transit project. To better support NYCT’s information needs, Con Edison has installed AMI smart meters and communication infrastructure to over 2,000 of NYCT’s locations and have designed and built a system to detect and address problems before they become delay-causing outages. As part of this we have also developed a mechanism to allow NYCT unparalleled visibility into their own electric service status and we have enacted communications protocols to ensure that our operators and their operators are always on the same wavelength. Next steps include further improving operator visibility by providing real-time transit system events in the outage management system and a longer term ADMS solution. Through this initiative, we expect to reduce delays and improve quality of life to NYCT’s 5.7 million daily riders.
Kevin Wasserman, Senior Specialist, ConEdison

1:45 – 2:30 pm  A Data Readiness Approach to Advanced Distribution Management (ADMS) Systems
The data that feeds your ADMS can be the most intense piece of the implementation puzzle. It is also the most underrated as far as quality is concerned. An IT/OT project, like an ADMS, requires breaking down the pieces of data for collection, calculation, and quality assurance into some semblance of order. This presentation covers the trials and tribulations through the methods and findings that were encountered during the collection and validation of the various systems of record that provide data for an ADMS. The presentation will also describe a simple phased approach breakdown and lessons learned.

Ivette Sanchez, Project Manager, POWER Engineers
Larry Wilke, Senior Consultant, POWER Engineers

2:30 – 3:00 pm  Networking Break

3:00 – 5:00 pm  Vendor Presentations + 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
Hormoz Kazemzadeh, Vice President of Distribution and Smart Grid, OSI
Gary Ockwell, Chief Technical Officer, Advanced Control Systems
John Barnick, Director, Business Development, Network Control, Enterprise Software, ABB
Scott Koehler, VP Global Strategy, Smart Grid IT, Schneider Electric

5:00 – 6:00 pm  Networking Reception

“EUCI does a great job bringing the experience of the industry to the classroom in a very interactive way. The presenters tell you the truth! You will be able to start and advance your project and inject benchmarks into your own utility to deliver great results.”

SCADA/EMS Manager, Jamaica Public Service

“The Vendors were very knowledgeable in their trade, nice job! Excellent in answering questions.”

Operations Manager, City of Burbank
WEDNESDAY, MAY 2, 2018

8:00 – 8:30 am  Continental Breakfast

8:30 – 8:45 am  Welcome and Review of Previous Day

8:45 – 9:30 am  DER Challenges and Considerations for Implementing ADMS/DERMS

Today with regulatory renewable energy goals, more economical solar PV distributed energy resources (DER), and rising utility rates, there has been a rapid growth in PV deployment in several states causing new challenges for utilities. This presentation will review some of the challenges as well as solutions that attempt to address these issues. A vision for what a future ADMS/DERMS may look like will be discussed as well as the ADMS/DERMS challenges and decisions to consider when implementing them. New utility business models around potential distribution transactive energy markets as well as possible ADMS/DERMS strategies to take will be discussed.

*John Barnick, Industry Solutions Executive, ABB*

9:30 – 10:15 am  An Overview of DERMS Pilot Project from the Industry Viewpoint

DERMS projects are soon going to transition from the pilot stage to the full deployment stage. Currently, these projects include functionality to manage solar, demand response and energy storage, however rarely all three at this stage. Those that cover all three tend to be very limited geographically and the rest are not integrated in the other utility control systems and are closer to being treated as virtual power plants. We will review an illustrative sampling of these projects and their scope.

*Sacha Fontaine, Energy Solutions Director, Siemens*

10:15 – 10:45 am  Networking Break

10:45 am – 12:15 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*

*Hormoz Kazemzadeh, Vice President of Distribution and Smart Grid, OSI*

*Gary Ockwell, Chief Technical Officer, Advanced Control Systems*

*John Barnick, Director, Business Development, Network Control, Enterprise Software, ABB*

*Scott Koehler, VP Global Strategy, Smart Grid IT, Schneider Electric*

12:15 pm  Conference Wrap-up and Adjournment

"This conference was informative and highly useful for practicing ADMS professionals of all levels."

CEO, GridBright

"Great information and insight from a strong line-up of industry experts and utilities."

Global Industry Specialist, Operations, Oracle
PRE-CONFERENCE WORKSHOP


MONDAY, APRIL 30, 2018

8:00 – 8:30 am  Registration & Continental Breakfast
8:30 am – 4:00 pm  Workshop Timing

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

AGENDA

8:00 – 8:30 am  Registration and Continental Breakfast
10:30 – 10:45 am  Morning Break
8:30 am – 12:00 pm  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

“This course is informative and useful for practicing ADMS professionals of all levels.”

Principal Engineer, West Power, Inc.
WORKSHOP AGENDA

1:00 – 4:00 pm  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

Travis Rouillard
Chief Technology Officer, GridBright

Travis Rouillard is the CTO of GridBright, where he is responsible for technology direction, innovation, and development. He has over twenty years of experience building and deploying utility software solutions. For the last decade, he has specialized in solutions for Distributed Energy Resources Management (DERMS). He was intimately involved with the development of DRBizNet at UISOL – an award winning platform for Demand Response Management (DRMS) – and its deployment at several North American RTOs and utilities before it was ultimately acquired by Alstom Grid. At Alstom (now GE), he was the global product manager for Demand Response (DR) and Distributed Energy Resources (DER) solutions, as well as Market Management Solutions (MMS) and Analytics. Travis has also held senior roles at PG&E, Ernst & Young, and Bank of America. He has extensive background in energy markets, settlements, risk management, data analytics, IT architecture, and systems integration.

Terry Nielsen
Executive Vice President, GridBright

Terry Nielsen is an Executive Vice President at GridBright. He has over 25 years of experience in defining and developing software solutions for the utility industry. His experience includes development, implementation and integration of Energy Management Systems (EMS), Market Management Systems (MMS), Network Model Management Systems, Supervisory Control and Data Acquisition (SCADA) systems, Distribution Management Systems (DMS) and Outage Management Systems (OMS).

He has assisted several utilities in developing multi-year strategies for deploying and integration of grid modernization technology including distribution and substation automation, transmission, distribution operations technology, and Distributed Energy Resource Management Systems (DERMS). He has assisted several utilities in the selection and procurement of ADMS, OMS and DMS technologies.

As an Executive Vice President of GridBright, Terry has the overall responsibility for consulting services deliver to the company’s utility clients. Prior to GridBright he has worked at UISOL (now a GE Grid Solutions Company), CES International, SPL Worldgroup (now Oracle), Alstom (now GE Grid Solutions) and Control Data (now Siemens).

Terry has a bachelors of science in Electrical Engineering from Iowa State University.

“Great seminar with utility presenters.”
Director, Advanced Control Systems
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 0.9 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
Automation and Power Center
3700 W Sam Houston Parkway South
Houston, TX 77042

NEARBY HOTELS
TownePlace Suites by Marriott Houston Westchase
10610 Westpark Drive
Houston, TX 77042
Phone: 713-266-2210
0.4 miles away

SpringHill Suites by Marriott Houston Westchase
5851 Rogerblade Road
Houston, TX 77072
Phone: 832-300-0200
0.7 miles away

Holiday Inn Houston – Westchase
10609 Westpark Drive
Houston, TX 77042
Phone: 713-532-5400
0.2 miles away

Houston Marriott Westchase
2900 Briarpark Drive
Houston, TX 77042
Phone: 713-978-7400
1.5 miles away

Candlewood Suites Houston – Westchase
4033 West Same Houston Parkway South
Houston, TX 77042
Phone: 713-780-7881
0.4 miles away

Hilton Houston Westchase
9999 Westheimer Road
Houston, TX 77042
Phone: 713-974-1000
1.7 miles away
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- **SPECIAL BUNDLE PRICE: ADMS & DERMS CONFERENCE AND WORKSHOP:** APRIL 30 – MAY 2, 2018: US $2195  
  EARLY BIRD on or before APRIL 13, 2018: US $1995
- **ADMS & DERMS CONFERENCE ONLY:**  
  MAY 1 – 2, 2018: US $1395  
  EARLY BIRD on or before APRIL 13, 2018: US $1195
- **PRE-CONFERENCE WORKSHOP ONLY:**  
  MONDAY, APRIL 30, 2018: US $995  
  EARLY BIRD on or before APRIL 13, 2018: US $895
- **I’M SORRY I CANNOT ATTEND, BUT PLEASE EMAIL ME A LINK TO THE CONFERENCE PROCEEDINGS FOR US $395**

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

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OR Enclosed is a check for $ ____________ to cover ______________ registrations.

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 30, 2018 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 (201) 871-0474.