

# ADMS AND DERMS, THE LEGACY OF INNOVATION

November 18 - 19, 2020  
Online | Central Time

PRE-CONFERENCE WORKSHOP

**ADMS and DERM Systems:  
*The Fundamentals, Past,  
Present and Future***

**TUESDAY, NOVEMBER 17, 2020**

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*“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

## EUCI ONLINE CONFERENCE

EUCI is pleased to offer this virtual conference on its online interactive platform. Enjoy a valuable learning experience with a smaller impact on your time and budget. You will gain new knowledge, skills, and hands-on experience in from the comfort of your remote location.

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EUCI is authorized by IACET to offer 0.9 CEUs for the conference, 0.7 CEUs for the workshop



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## OVERVIEW

Distribution operators face a formidable challenge in the coming years. They need to keep the lights on, respond to outages more effectively 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
- Ever higher levels of distributed energy resources (DER) effectively and without disruption into the system

This conference is meant for utility IT and 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 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, Oklahoma Gas & Electric and NV Energy.

## 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
- Review a large municipal utility which is implementing an ADMS from a DERMS perspective to improve the management and control of the distribution system, enhance distribution planning function, optimize the distribution system and improve forecasting accuracy
- Discover how one utility was able to create a business case, procure, implement and then successfully operate an ADMS
- Explore how a utility is implementing IT solutions including ADMS across a large geographic area with a focus on DERs and then expanding to a second operating unit
- 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
- Discuss the use of ADMS and DERMS, highlighted in a large IOU via a DER aware ADMS
- Gain background and better insight on how DERMS technology will be developed, standardized and regulated for better control over higher penetration of DERs
- Hear from a Panel of DERMS technology vendors what their strategies are, their approach to DERMS, about their product & services and how they foresee 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 and network with both those who are on the agenda and those attending

# AGENDA

WEDNESDAY, NOVEMBER 18, 2020 - CENTRAL TIME

**8:00 – 9:00 am**

## **Login & Virtual Tradeshow Expo**

Attendees will have time to privately visit each Vendor and Sponsor's virtual tradeshow exhibit. EUCI provides a discreet URL address to click through to access each "booth" via Microsoft Teams, Exhibitors will have the ability to talk face to face and access Demos on-screen and download any White Papers, Brochures, etc.

**9:00 – 9:30 am**

## **Opening Remarks, Glossary of Terms and Intro to ADMS**

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.

***Terry Nielsen, Executive Vice President, GridBright***

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

**9:30 am – 12:00 pm**

## **ADMS Vendor Presentations + Panel Discussion, Break will occur after Initial Presentations are complete**

Five of the most qualified companies will present on their ADMS 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***

***Avnaesh Jayantilal, ADMS Product Director, GE Power***

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

***Scott Koehler, VP Global Strategy, Schneider Electric***

***William Peterson, ADMS & DMS Product Manager, Hitachi ABB***

***Brad Williams, Vice President, Industry Strategy, Oracle Utilities***

***Jai Shankar (Jay) Jayaraman, Solutions Delivery Manager, Cyient***

**12:00 – 2:00 pm**

## **Lunch Break & Virtual Tradeshow Expo**

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**2:00 – 2:30 pm**

## **IEEE 2030.11 Standards Group; Status, Current Developments + A Peek into the Future of "DERMS"**

Although DERMS is the hot word of the moment, it is an evolving term and challenging to present or teach because there are no standards and everyone defines a DERMS differently. That is why the IEEE took it on to develop a guideline for considering DERMS, this presentation will detail what is underway, decisions that will be needed to make and look into the future.

***John Barnick, Member, IEEE 2030.11 Working Group***

**2:30 – 4:00 pm**

## **DERMS Vendor Panel**

This Panel Discussion will have six highly 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***

***John Barnick, Director, Business Development, Network Control, Hitachi ABB***

***Sally Jacquemin, Associate VP of Distribution and Smart Grid, OSI***

***Scott Koehler, VP Global Strategy, Schneider Electric***

***Varun Mehra, Senior Product Manager, EnergyHub***

***Mike Unum, Senior Product Manager, GE Power***

***Brad Williams, Vice President, Industry Strategy, Oracle Utilities***

# AGENDA

THURSDAY, NOVEMBER 19, 2020

**8:00 – 9:00 am**

## **Login & Virtual Tradeshow Expo**

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**9:00 – 9:45 am**

## **West Monroe's Preview of the Day**

A discussion of the similarities and differences to the approaches, technologies, business processes and outcomes that will be presented during the day's Utility Case Studies. Further background on the do's and don'ts/success and failures on Project Implementations will be presented to create a sense of anticipation and an exciting learning environment for the day.

**Paul DeCotis, Principal, Utilities & Energy, West Monroe Partners**

**Eric Anderson, Senior Manager, ADMS and DERMS Subject Matter Expert, West Monroe Partners**

**9:45 – 10:30 am**

## **The Five W's of Feeder Tuning for ADMS, Arizona Public Service Case Study**

Arizona Public Service realized early in their ADMS deployment that "Feeder Tuning" is crucial to maintaining accuracy on a feeder for advanced functionality such as; Short Circuit, State Estimation FLISR, Load Flow, load profiling and more. More importantly, feeder tuning requires accurate GIS and asset data imports into ADMS. So, Who does feeder tuning? What is feeder tuning? Where do we get the required data for feeder tuning? When do we start feeder tuning and when is it needed? Why do we need to tune the feeders, aren't they already tuned? This session explores the details of the feeder tuning journey that APS took and is continuing to take of who, what, where, when, why and how. An important aspect of using advanced functions in ADMS and now with the integrated of various DERs, it is imperative to understand the importance, different approaches, who should be involved, what data is needed, and much more.

**David Hopson, Project Manager III & Network Model Lead - ADMS Program, Arizona Public Service**  
**Britney Dizdar, Senior Consultant, POWER Engineers**



**10:45 – 11:30 am**

## **NV Energy / PacifiCorp (Case Study)**

PacifiCorp has nearly 2 million customers within six states and 150,000 square miles. NV Energy serves 1.4 million customers in densely populated Las Vegas and the more rural Reno area. These service territories present different challenges to outage restoration and field communication during storms. NVE implemented an on premise FLISR and PacifiCorp implemented an integrated hosted mobile workforce management (MWM) to improve crew-control center communication and information available to crews. This presentation will provide both NVE and PacifiCorp's experiences, benefits and deployment challenges with on-premise and cloud IT/OT integration.

**Robert Mizera, Director T&D Applications**



**11:30 am – 1:00 pm**

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# AGENDA

THURSDAY, NOVEMBER 19, 2020 (CONTINUED)

1:00 – 1:45 pm



### Sacramento Municipal Utility District (Case Study)

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, Supervising Principal Distribution Operations Engineer, Distribution System Operations, SMUD**

1:45 – 2:30 pm

### ADMS Enabled Advanced Predictive Emergency Planning & Preparedness

Via the use of ADMS technologies an Emergency Preparedness Platform has been pioneered that enables emergency response teams to locate a utility's most vulnerable assets in a disaster's predicted location to prepare to quickly restore service when problems occur. The platform uses advanced analytics to predict which field assets are most likely to fail and where to pre-position spare parts, crews, and other backup material to minimize the impact of a damaged asset. The specific benefits are enhanced customer satisfaction, improved crew efficiency, shorter estimated restoration times, and truly effective preventive maintenance.

**Karthik Mada, Senior VP of Delivery, Hexstream**

**Bill Silkett, Senior Director, Hexstream**

2:30 – 3:15 pm

### Field-Proven eSCADA, DMS, OMS Solutions ADMS Deployment & Commissioning for Smart Grid

ETAP and Noida Power Company Limited (NPCL) have successfully deployed ETAP's model-based Advance Distribution Management System (ADMS) based on NPCL's smart grid initiative – one of the largest smart grid projects in India. Learn about the features, capabilities and benefits of this integrated model driven ADMS that has transformed NPCL's network into an intelligent, adaptive, and sustainable grid that provides reliable and quality energy for their customers.

**Tanuj Khandelwal, CTO, ETAP**

**John Francis, Technical Sales Director, ETAP**



*"Hearing from the Vendors and the Peer presentations were extremely useful"*

Manager, DTE



*"Excellent networking opportunity to hear from experts and learn all about DERMS and ADMS"*

IT Manager, APS



*"The Vendors were very knowledgeable in their trade, nice job! Excellent in answering questions"*

Operations Manager, City of Burbank

PRE-CONFERENCE WORKSHOP

# ADMS and DERM Systems: *The Fundamentals, Past, Present and Future*

TUESDAY, NOV. 17, 2020 - CENTRAL TIME

9:00 am – 4:30 p.m      **Course Timing**

## AGENDA

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8:45 – 9:00 am      **Log In**

9:00 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 – 1:30 pm

**Lunch Break & Virtual Tradeshow Expo**

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1:30 – 4:30 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 OVERVIEW

The Pre-Conference Workshop is full-day overview of both ADMS and DERMS Systems. Attendees will prepare for the full conference by gaining an understanding of the basics of the systems and solutions. From 101 materials through the dense language and terminology to examples of what is being done to the myriad options for ADMS and DERMS implementations for various utility types will be covered in the workshop.

## 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 INSTRUCTORS



**Terry Nielsen**  
**Senior Vice President, GridBright**

Terry is an executive consultant and systems integrator specializing in power industry grid management systems. He has served over 50 electric utilities in 5 continents, improving their grid management and emergency response. He has served on the DistribuTech Advisory Board since 2001 and is the chair of the IEEE DSOP Committee's Working Group on DMS.

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 (CTO), GridBright**

Travis Rouillard is the CTO of GridBright, where he is responsible for technology direction, innovation, and development. He has twenty-five 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.

# INSTRUCTIONAL METHODS

Case Studies, Panel Discussions and PowerPoint presentations

# REQUIREMENTS FOR SUCCESSFUL COMPLETION

Participants must login for the entirety of the course 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 the conference, 0.7 CEUs for the workshop**

# ONLINE COURSE DELIVERY & PARTICIPATION DETAILS

We will be using Microsoft Teams to facilitate your participation in the upcoming event. You do not need to have an existing Teams account in order to participate in the broadcast – the course will play in your browser and you will have the option of using a microphone to speak with the room and ask questions, or type any questions in via the chat window and our on-site representative will relay your question to the instructor.

- You will receive a meeting invitation which will include a link to join the meeting.
- Separate meeting invitations will be sent for the morning and afternoon sessions of the course.
  - o You will need to join the appropriate meeting at the appropriate time.
- If you are using a microphone, please ensure that it is muted until such time as you need to ask a question.
- The remote meeting connection will be open approximately 30 minutes before the start of the course. We encourage you to connect as early as possible in case you experience any unforeseen problems.



*“Great seminar, especially the Utility Presenters”,*

Director, ACS Power



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

Manager DMS, SMUD



# PLEASE SELECT

**BUNDLE PRICE: ADMS AND DERMS, THE LEGACY OF INNOVATION ONLINE CONFERENCE AND PRE-CONFERENCE WORKSHOP:**  
NOVEMBER 17-19, 2020: US \$1,995 (Single Connection)

**ADMS AND DERMS, THE LEGACY OF INNOVATION ONLINE CONFERENCE ONLY:**  
NOVEMBER 18-19, 2020: US \$1,195 (Single Connection)

**PACK OF 5 CONNECTIONS:** US \$4,780 (20% Discount)

**PACK OF 10 CONNECTIONS:** US \$8,365 (30% Discount)

**PACK OF 20 CONNECTIONS:** US \$14,340 (40% Discount)

**PRE-CONFERENCE WORKSHOP ONLINE ONLY: ADMS AND DERM SYSTEMS: THE FUNDAMENTALS, PAST, PRESENT AND FUTURE**  
NOVEMBER 17, 2020: US \$895 (Single Connection)

To Register Click Here, or

**Mail Directly To:**

PMA Conference Management  
405 Highview Rd  
Englewood NJ 07631  
201 871 0474  
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**Recording:** Each event is recorded, and will be available for three business days. For registrants only.

## Online Course Delivery & Participation Details

See page 8 for information

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

Print Name

Job Title

Company

Address

City

State/Province

Zip/Postal Code

Country

Phone

Email

### CREDIT CARD INFORMATION

Name on Card

Billing Address

Account Number

Billing City

Billing State

Exp. Date

Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

Billing Zip Code/Postal Code

**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 October 16, 2020 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 course 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. EUCI reserves the right to alter this program without prior notice.