

TRANSMISSION EXPANSION IN THE MIDWEST

December 4-5, 2017
Hyatt Regency Indianapolis
Indianapolis, IN



TAG US #EUCIEvents
FOLLOW US @EUCIEvents



EUCI is authorized
by IACET to offer
1.0 CEUs for the
conference

SPONSOR



OVERVIEW

At this unique forum, you will hear top executives from the area's RTOs, utilities, transmission developers, and state regulatory agencies discuss and debate the most critical issues surrounding transmission expansion in the Midwest region. You will have the opportunity to brainstorm with these thought leaders on how to address complex planning, siting, and market structure issues while balancing reliability, policy directives and economic interests. You will also hear key project managers reveal the inside details of the most important transmission projects in the region in several case study sessions. Don't miss this opportunity to learn and network with the key players in the Midwest energy market.

LEARNING OUTCOMES

- Discuss an update of RTOs in the Midwest: MISO, PJM Interconnection, and Southwest Power Pool
- Review AEP's Wind Catcher Energy Connection program
- Discuss interregional planning and seams issues
- Address state regulators regarding current Midwest grid modernization efforts
- Explain FERC Order 1000 and its current implications
- Describe renewable integration projects throughout the region
- Discuss Duke Energy's TDISC case study
- Review NERC/CIP compliance for transmission substations

WHO SHOULD ATTEND

- Transmission planners, engineers, and operators
- Transmission project managers and engineers
- Utility finance executives
- Transmission developers and consultants
- Renewable energy developers
- Lenders and financial institutions
- Construction executives
- Permitting and environmental planners and managers
- State public utility commission advisors and staff



"It is a well insightful meeting which needs to be attended by any utility professional who need to know more about RTOs, regulatory challenges and more about environmental challenges facing utility construction."

Senior Manager, MISO

AGENDA

MONDAY, DECEMBER 4, 2017

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

8:00 – 9:30 am PANEL: Update on RTOs

This panel will provide an update regarding RTOs operating in the Midwest, including:

- MISO
- PJM Interconnection
- SPP

Moderator: Kent Herzog, Project Manager- Transmission and Distribution Services, Burns & McDonnell

Ranjit Amgai, Senior Transmission Planning Engineer, MISO

Adam Solomon, Advisor- Planning Coordination and Strategy, MISO

Chuck Liebold, Manager- Interregional Planning, PJM Interconnection

John Olsen, Ex. Director- System Operations & Transmission Development, Westar Energy, Member of SPP's Market and Operations Policy Committee

9:30 – 10:15 am



American Electric Power: Wind Catcher Energy Connection

American Electric Power's \$4.5 billion Wind Catcher includes the nation's largest wind energy facility and a dedicated tie-line to efficiently deliver the wind energy to customers. The unique treatment of two projects – the wind farm and the transmission system – as one is a coordinated approach that will speed approval and completion times for future projects across the country.

Under the proposal, AEP will own a 2,000 MW wind farm currently under construction by Invenergy in the Oklahoma panhandle. It also will own a 765-kV 350-mile dedicated generation tie-line, stretching from the panhandle to the Tulsa area. The tie-line will allow PSO and SWEPCO to efficiently deliver the low-cost wind energy to their customers. The project is expected to provide more than \$7 billion net savings to customers over the 25-year life of the project. If all regulatory approvals are received, the project will be completed in late 2020, with delivery of wind energy expected to begin at that time. This session will discuss the Wind Catcher Energy Connection.

Raja Sundararajan, Vice President- Regulatory Services, American Electric Power

10:15 – 10:30 am

Morning Break



"This was my first EUCI event. The variety of topics and speakers made each session interesting. It is a great venue to meet the decision makers in the region. A good value and I look forward to future events."

Office Manager, Surveying & Mapping, LLC (SAM)



"Very impressive collection of speakers and attendees."

VP, Business Development, M.J. Electric, LLC

AGENDA

MONDAY, DECEMBER 4, 2017 (CONTINUED)

10:30 am – 12:00 pm

PANEL: Interregional Coordination

This panel will discuss current considerations regarding RTO-to-RTO coordination, including:

- Seams issues
- Interregional planning
- Right-of-way issues
- Market-to-market payments
- Market-to-market congestion

Moderator: Kent Herzog, Project Manager- Transmission and Distribution Services, Burns & McDonnell

Chuck Liebold, Manager- Interregional Planning, PJM Interconnection

John Rosales, Commissioner, Illinois Commerce Commission

Betsy Beck, Director of Transmission Policy, American Wind Energy Association

Adam McKinnie, Chief Utility Economist, Missouri Public Service Commission

12:00 – 1:00 pm

Group Luncheon

1:00 – 2:30 pm

Grid Modernization from a Regulatory Standpoint

This panel will discuss state efforts toward grid modernization from a regulatory standpoint, including:

- State oversight: Similarities & differences in state oversight between for the states represented in the panel
 - o How the regulatory framework in each state impacts that state's grid modernization efforts
- MISO's competitive transmission project & potential implications/concerns for states
- DERs and their implications from a regulatory standpoint
 - o How will DERs impact transmission planning moving forward?
 - Resource visibility as the key to modeling grid planning
 - Incorporating DER information into transmission planning
 - o State approaches to regulating aggregated DERs
- Non-Transmission Alternatives: Opportunities and considerations

John Rosales, Commissioner, Illinois Commerce Commission

Angela Rapp Weber, Commissioner, Indiana Utility Regulatory Commission

Jason Chaplin, Public Utility Energy Coordinator, Oklahoma Corporation Commission

Adam McKinnie, Chief Utility Economist, Missouri Public Service Commission

2:30 – 3:00 pm

Networking Break

3:00 – 4:30 pm

FERC Order 1000

This panel will cover important aspects of FERC Order 1000 as it relates to current transmission projects in the Midwest, including:

- Regional planning
- Status & current considerations
- Lessons learned
- Long-term view
- Planning process at utility & ISO levels

Alan Myers, Director- Regional Planning, ITC Holdings Corp.

William Allen, Manager- Interregional & Long-Range Planning, Com Ed

4:30 – 5:30 pm

Networking Reception

AGENDA

TUESDAY, DECEMBER 5, 2017

8:00 – 8:30 am

Continental Breakfast

8:30 – 10:00 am

PANEL: Renewable Energy Integration

On this panel, experts will discuss critical considerations regarding renewable energy integration, including:

- Current projects
- Challenges & opportunities
 - Expediting interconnections with utilities
 - Lowering interconnection investment in certain regions
- Interconnection issues
- Impact on transmission/congestion management
- Energy storage
 - Maximizing energy storage value for energy, transmission regulation and reactive options

Moderator: Giovan Scialdone, Senior Manager of Sales, Vestas

Kip Fox, Director- Transmission Strategy and Grid Development, American Electric Power

David Harwood, Director- Renewable Energy, DTE Energy

Jason Chaplin, Public Utility Energy Coordinator, Oklahoma Corporation Commission

Betsy Beck, Director of Transmission Policy, American Wind Energy Association

Dave Harwood, Director of Renewable Energy, DTE Energy

10:00 – 10:30 am

Networking Break

10:30 – 11:15 am

TDISC: Duke Energy

- What does TDSIC Stand For?
- Basis for the Opportunity to Improve Indiana System
- Legislative direction and program Requirements
- Types of assets Duke is replacing/improving
- Execution plans

Dan Chapoton, Engineer, Duke Energy



11:15 am – 12:00 pm

NERC/CIP Compliance for Transmission Substations

- Defining CIP standards
- Determining scope
- Access management
- Physical access controls
- Physical security perimeter
- Electronic access controls
- Electronic security perimeter
- Monitoring and control
- Incident response
- Physical security

Michael D. Melvin, Director- NERC Compliance Programs, Northern Indiana Public Service Co.

12:00 pm

Conference Adjourns



“Great educational opportunities to stay on top of industry trends and network with peers.”

Project Director,
Contract Land Staff,
LLC



“Great networking.”

RTO Policy Manager, NIPSCO

INSTRUCTIONAL METHODS

Case studies and expert Q&A will be used at this event.

REQUIREMENTS FOR SUCCESSFUL COMPLETION

Participants must sign in/out each day and be in attendance for the entirety of the conference 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 1.0 CEUs for the conference.

REGISTER 3, SEND THE 4TH FREE

Any organization wishing to send multiple attendees to this event 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

A room block has been reserved at the Hyatt Regency Indianapolis, 1 S Capitol Ave, Indianapolis, IN 46204, for the nights of December 3-4, 2017. Room rates are US \$159 plus applicable tax. Call **1-317-632-1234** for reservations and mention the EUCI event to get the group rate. The cutoff date to receive the group rate is November 3, 2017 but as there are a limited number of rooms available at this rate, the room block may close sooner. ***Please make your reservations early.***

REGISTRATION
to register [CLICK HERE](#) or

Call: 201 871 0474
fax: 253 663 7224
email: register@pmaconference.com
web: <http://pmaconference.com/>
Mail: POB 2303 Falls Church Va 22042

Please make checks payable to: "PMA"

EVENT LOCATION

A room block has been reserved at the Hyatt Regency Indianapolis, 1 S Capitol Ave, Indianapolis, IN 46204, for the nights of December 3-4, 2017. Room rates are US \$159 plus applicable tax. Call **1-317-632-1234** for reservations and mention the EUCI event to get the group rate. The cutoff date to receive the group rate is November 3, 2017 but as there are a limited number of rooms available at this rate, the room block may close sooner. ***Please make your reservations early.***

PLEASE REGISTER

TRANSMISSION EXPANSION IN THE MIDWEST CONFERENCE

DECEMBER 4-5, 2017: US \$1395

Early bird on or before November 17, 2017: US \$1195

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

Print Name Job Title

Company

What name do you prefer on your name badge?

Address

City State/Province Zip/Postal Code Country

Phone Email

List any dietary or accessibility needs here

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 November 3, 2017 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 at (201) 871-0474.