



Wisconsin Public Utility Institute
UNIVERSITY OF WISCONSIN-MADISON

**Regional Transmission Organization
Fundamentals
and
Regional Transmission Organizations 2.0**

April 8-12, 2024

AGENDA

CEUs available for the following:

- ***RTO Fundamentals April 8-10, 2024 – 1.5 CEUs***
- ***RTO 2.0 April 10-12, 2024 – 1.5 CEUs***
- ***Combined Programs April 8-12, 2024 – 2.7 CEUs***

All times are Central.

May include both in-person and remote speakers and panelists.



Regional Transmission Organization Fundamentals

Monday, April 8, 2024

Background, Overview, and Transmission Planning

| Time (Central) | Session Title | Speaker(s) |
|----------------|--|--|
| 8:15 | Registration check-in | |
| 8:30 – 8:40 | Welcome Introductions | Lori Sakk <i>Director, Wisconsin Public Utility Institute</i> |
| 8:40 – 8:45 | Opening Remarks | Ian Robertson <i>Dean, College of Engineering, University of Wisconsin-Madison</i> |
| 8:45 – 10:15 | Background <ul style="list-style-type: none">• History – How and why were RTOs/Independent System Operators created?<ul style="list-style-type: none">➢ Congressional and State Action➢ Federal Energy Regulatory Commission Action (FERC)➢ Differences/Similarities Among RTOs➢ Requirements, Benefits, and Drawbacks for Participating in an RTO• RTO Functions and Coordination among RTOs | Zach Cohen <i>Partner, Jenner & Block</i> Hanna Conger <i>Partner, Benesch Friedlander Coplan & Aronoff</i> |
| 10:15 – 10:30 | Break | |
| 10:30 – 12:00 | Overview <ul style="list-style-type: none">• Stakeholders – Who are the players? What are their perspectives/interests/politics?<ul style="list-style-type: none">➢ Role of Stakeholder Governance➢ Influence of Stakeholders• Regulatory Oversight – FERC, North American Electric Reliability Corporation (NERC), States, Independent Market Monitor (IMM), Courts• Jurisdictional Overlap | Marcus Hawkins <i>Commissioner, Public Service Commission of Wisconsin</i> |
| 12:00 – 12:30 | Lunch | |
| 12:30 – 1:30 | Transmission Planning <ul style="list-style-type: none">• RTOs and Functional Control of Transmission System• Federal Regulation of Transmission System Rates• Regional Transmission Planning<ul style="list-style-type: none">➢ Role of Local Transmission Owners; Transmission Owners' Agreements➢ Role of Competition• RTO Preparation for Loss of Solar Power During Eclipse | Brian Drumm <i>Director, Regional Policy and RTO Engagement, ITC Holdings</i> |
| 1:30 – 2:30 | Break – View Eclipse, weather permitting Eclipse glasses will be provided | |

| | | |
|-------------|--|---|
| 2:30 – 3:30 | Transmission Planning <ul style="list-style-type: none"> • Regional Transmission Planning vs Local Planning • Planning Timelines • Cost of Transmission | Ginger Hodge Associate Director, MarketIQ – MISO, Customized Energy Solutions |
| 3:30 – 3:35 | Stretch Break | |
| 3:35 – 4:35 | Transmission Planning <ul style="list-style-type: none"> • Integration of Renewables and Generator Interconnection Process <ul style="list-style-type: none"> ➢ Level Setting – What is the queue, and how does the process work? ➢ Integrating Renewables – MISO ➢ Process Changes and Upcoming Updates | Cynthia Crane Manager, MISO Regulatory Strategy, ITC Holdings |
| 4:35 – 5:30 | Welcome Reception for RTO Fundamentals Attendees | |

Tuesday, April 9, 2024
Markets, Resource Adequacy

| Time (Central) | Session Title | Speaker(s) |
|----------------|---|---|
| 8:30 – 10:00 | Markets <ul style="list-style-type: none"> • Overview of Electric Markets <ul style="list-style-type: none"> ➢ Capacity ➢ Forward/Day Ahead ➢ Bilateral ➢ Ancillary Services ➢ Vertically Integrated/Competitive Market | Michael Ferris Professor, Department of Computer Sciences, University of Wisconsin-Madison |
| 10:00 – 10:15 | Break | |
| 10:15 – 11:45 | Markets <ul style="list-style-type: none"> • Congestion Management • Market Participants • Locational Marginal Prices (LMPs) <ul style="list-style-type: none"> ➢ Energy Price, Congestion Cost, and Losses ➢ Day Ahead and Real Time LMPs | Joseph Bowring President, Monitoring Analytics |
| 11:45 – 12:45 | Lunch | |
| 12:45 – 2:00 | Markets <ul style="list-style-type: none"> • Market Settlements • Market to Market • Communication Between RTOs | Amanda Myott Senior Market Design Specialist, Energy Market Design, New York ISO |
| 2:00 – 2:15 | Break | |
| 2:15 – 3:30 | Role of the Market Monitor | Mary Wierzbicki Director, Division of Energy Market Assessments, Office of Energy Policy and Innovation, Federal Energy Regulatory Commission |
| 3:30 – 3:40 | Stretch Break | |
| 3:40 – 4:30 | Resource Adequacy <ul style="list-style-type: none"> • Resource Adequacy Construct Overview • Resource Availability and Need • Variability Among RTOs | Christine Tezak Senior Director – Research, ClearView Energy Partners LLC |

Wednesday, April 10, 2024

Available to all registrants.

Current Issues, Looking Forward

| Time (Central) | Session Title | Speaker(s) |
|----------------|---|--|
| 8:00 – 8:15 | Registration check-in for RTO 2.0 | |
| 8:15 – 8:30 | Welcome and Introductions | Lori Sakk <i>Director, WPUI</i> Sarah Justus <i>WPUI Board Chair, Senior Project Manager, kp environmental</i> |
| 8:30 – 10:00 | Current Issues <ul style="list-style-type: none">• Long Range Transmission and Supply Planning<ul style="list-style-type: none">➢ Cost Allocation• Energy Sufficiency• Transmission Planning and Cost Oversight• Future Load Growth• Resource Adequacy<ul style="list-style-type: none">➢ Accreditation➢ Pricing/Compensation | Moderator: Gregory Levesque <i>Vice President of Regional and Local Affairs, ATC</i> Panelists: Julie Fedorchak <i>Commissioner, North Dakota, Public Service Commission</i> Carolyn Wetterlin <i>Senior Manager, Regional Transmission Organization Policy, Xcel Energy</i> Mary Wierzbicki <i>Director, Division of Energy Market Assessments, Office of Energy Policy and Innovation, FERC</i> Kent Withrow <i>Director, Congestion Management, Western Region, Customized Energy Solutions</i> |
| 10:00 – 10:15 | Break | |
| 10:15 – 11:45 | Looking Forward <ul style="list-style-type: none">• Future of RTOs• Energy Markets of the Future | Moderator: Joshua Byrnes <i>Board Member, Iowa Utilities Board President, OMS</i> Panelists: David Dwyer <i>Senior Corporate Counsel, ERCOT</i> Eric Johnson <i>Executive Director, External Affairs, ISO-NE</i> Bob Kuzman <i>Executive Director, External Affairs, MISO</i> Amanda Myott <i>Senior Market Design Specialist, Energy Market Design, New York ISO</i> Russell Carey <i>Principal Stakeholder Affairs Liaison, SPP</i> Evelyn Robinson <i>Managing Partner, State Government Affairs, PJM Interconnection</i> Holly Taylor <i>Manager, Regional Affairs, CAISO</i> |
| 11:45 – 12:45 | Lunch | |
| 12:45 | Adjourn RTO Fundamentals | |



Regional Transmission Organizations 2.0

Wednesday, April 10, 2024

**Available to those registered for only RTO 2.0
and those registered for Both programs.**

Resource Adequacy, Emerging Risks

| Time (Central) | Session Title | Speaker(s) |
|----------------|--|--|
| 12:45 – 2:15 | Resource Adequacy 2.0 <ul style="list-style-type: none">• Capacity Market Designs• Seasonal Constructs• Resource Accreditation<ul style="list-style-type: none">➢ Methods and Models➢ Installed Capacity➢ Unforced Capacity | Elliott Nethercutt <i>Principal Regulatory Policy Specialist, National Association of Regulatory Utility Commissioners</i> |
| 2:15 – 2:30 | Break | |
| 2:30 – 4:00 | Emerging Risks and Emergency Procedures <ul style="list-style-type: none">• Extreme Weather• Communication, Planning & Coordination• Assessments• Event Reviews | Moderator: Kristine Engel <i>Senior Applications Engineer, LineVision</i> Panelists: Mike Deising <i>Senior Director, Strategic Communications, Midcontinent Independent System Operator</i> Ryan Deyoe <i>Power Markets Specialist, Telos Energy</i> Valy Goepfrich <i>Power Supply Economist, WPPI Energy</i> Kari Heinrich <i>Energy Security Lead, State Energy Office, Office of Energy Innovation, Public Service Commission of Wisconsin</i> John Wachtler <i>Transmission Planning Director, Minnesota Department of Commerce</i> |
| 4:00 – 5:00 | Welcome Reception for RTO 2.0 Attendees | |

Thursday, April 11, 2024

Oversight, Energy Adequacy, Interconnections, Seams

| Time (Central) | Session Title | Speaker(s) |
|-------------------|--|---|
| 8:30 – 10:00 | North American Electric Reliability Corporation (NERC) <ul style="list-style-type: none"> • Role and Oversight <ul style="list-style-type: none"> ➤ NERC Regional Entities • NERC Reliability Standards • RTO Interaction with NERC • Changes to the Bulk Power System • Addressing Emerging Risks | Mark Lauby <i>Senior Vice President and Chief Engineer, North American Electric Reliability Corporation</i> |
| 10:00 – 10:15 | Break | |
| 10:15 – 11:45 | Energy Adequacy <ul style="list-style-type: none"> • State Resource Planning • RTO Resource Planning • Ensuring Enough Energy Produced • Cost Allocation | Marcus Hawkins <i>Commissioner, Public Service Commission of Wisconsin</i> |
| 11:45 – 12:45 | Lunch | |
| 12:45 – 2:15 | Interconnections and Expansion Planning <ul style="list-style-type: none"> • FERC Orders <ul style="list-style-type: none"> ➤ 890, 1000, 2023 • Supplemental Interconnections | Melissa Seymour <i>Vice President, External Affairs, Sun2o Partners, LLC</i> |
| 2:15 – 2:30 | Break | |
| 2:30 – 4:00 | Jurisdiction and Pricing at the Seams <ul style="list-style-type: none"> • Impacts on Operations Planning & Pricing • Potential Solutions | Carrie Milton <i>Vice President, Potomac Economics</i> |

Friday, April 12, 2024

Advanced Technologies, What's Next

| Time (Central) | Session Title | Speaker(s) |
|-------------------|---|--|
| 8:30 – 10:00 | Advanced Transmission Technologies <ul style="list-style-type: none"> • FERC Orders on Ambient Adjusted Ratings • Grid Enhancing Technologies • Advanced Conductors • Dynamic Line Ratings | Tom Imel <i>Transmission Planning Lead, Alliant Energy</i> Mitchell Myhre <i>Senior Manager of Business Planning and Regulatory Strategy, Alliant Energy</i> |
| 10:00 – 10:15 | Break | |
| 10:15 – 11:45 | What's Next for RTOs <ul style="list-style-type: none"> • Electric/Gas Coordination • Distributed Energy Resources • Changing Energy Needs | Moderator: Beth Soholt <i>Executive Director, Clean Grid Alliance</i> Panelists: Karsten Barde <i>Director, Policy & Regulatory Strategy, National Grid</i> Peter Cappers <i>Strategic Advisor, Berkeley National Lab</i> Tricia DeBleekere <i>Director, State Policy and Strategy, MISO</i> Chris Plante <i>Manager, Federal Regulatory & Policy, WEC Energy Group – Business Services</i> John Wachtler <i>Transmission Planning Director, Minnesota Department of Commerce</i> |
| 11:45 – 12:00 | Wrap-up and Boxed Lunch | |
| 12:00 | Adjourn | |

Thank you to WPUI member organizations!

Corporate level:



Sustaining level:



Contributing level:

Dairyland Power Cooperative
Deloitte
Michael Best & Friedrich LLP
Ranger Power

Associate level:

Godfrey & Kahn, S.C.
Great Lakes Utilities
Illume Advising
ITC Midwest
KP Environmental
Perkins Coie LLP
WPPI Energy

Standard level:

Boardman & Clark LLP
Christensen Associates Energy Consulting
Citizens Utility Board of Wisconsin
Clean Wisconsin
Customers First! Coalition
Customized Energy Solutions
Focus on Energy
Foley & Lardner LLP
Fredrikson & Byron, P.A.
GDS Associates, Inc.
Michaels Energy
Midcontinent Independent System Operator
Municipal Electric Utilities of Wisconsin
Pacific Economics Group
Power System Engineering
Preferred Intelligence LLC
Public Service Commission of Wisconsin
Quarles & Brady LLP
Rice Lake Utilities
Slipstream Group, Inc.
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