

November 11-12, 2025



# Transmission & Distribution Conference

Electrification and Enabling a Carbon Free Future



# Event Overview

This conference will bring together over 700 utility professionals including leaders focused on utility best practices, tools, and technologies to improve grid resiliency and reliability while meeting electrification demands; attendees will gain a better understanding of opportunities and tools available to aid in the adaptation to regulatory requirements for enabling a carbon free future

The event will feature presentations on the following themes:

- Distribution Systems of the Future
- Resilient and Sustainable Transmission Systems
- Innovations in Substations and Protection Systems
- Integrated Vegetation Management and T&D Systems
- Future-Ready Grid Planning and Operations
- Grounding & Lightning

Supported and attended by over 700 utility professionals, including:

- Transmission & Distribution Line Management Operations
  - Transmission & Distribution Line Design and Planners
  - Forestry and Vegetation Management
  - Grounding, Protection, and Control Systems
  - Stations Management
  - Power Quality
  - Engineering Leadership
  - And more from our world-class list of utility member organizations
- ([Click to View Membership Map](#))

## Week at a Glance: November 10-14, 2025

Orlando, FL

	Morning Break	Lunch	Afternoon Break	
Monday 10	Grounding and Lightning General Meeting Transmission Underground Cables General Meeting Advanced Distribution and Operations General Meeting Distribution Equipment Planning General Meeting Vegetation Management General Meeting		Wildfire Working Group	Welcome Reception
Tuesday 11	YPG Breakfast	Grid Resiliency Workshop		Exhibitor Reception
Wednesday 12	Transmission and Distribution Conference			
Thursday 13	Overhead Transmission Equipment General Meeting Overhead Transmission Design General Meeting Stations Equipment General Meeting Power Quality General Meeting Power System Planning and Operations General Meeting Protection and Control General Meeting			Women in Power Reception
Friday 14	Overhead Transmission Design General Meeting			

To register and for more information, visit <https://site.phedloop.com/event/TransmissionandDistribution2025/home/>

# Supporting CEATI Member Utilities

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Alberta Electricity System Operator	Exelon	Newfoundland Power
American Electric Power	FirstEnergy Corporation	NextEra Energy
American Transmission Company	Florida Power and Light	Nova Scotia Power
Arizona Public Service Company	FortisAlberta	Ontario Power Generation
ATCO Electric	FortisBC	Pacific Gas and Electric Company
Austin Energy	Ghana Grid Company	PacifiCorp
Bear Valley Electric Service	Hetch Hetchy Water and Power SFPUC	PNM Resources
California Department of Water Resources	Hydro One Networks	Powerlink Queensland
Central Hudson Gas and Electric	Hydro Ottawa	PPL Electric Corporation
Chelan County Public Utility District	Idaho Power Company	Public Service Electric and Gas Company
Con Edison	Invenergy	PUC Services
Constellation Energy Corporation	Israel Electric Corporation	Red Electrica de Espana
Duke Energy	Landsvirkjun	Salt River Project
Efficiency Manitoba	London Hydro	Saskatoon Light & Power
Electricity Supply Board	Long Island Power Authority	Seattle City Light
ELES	LS Power	Southern California Edison
Elexicon Energy	Manitoba Hydro	Southern Company
ELMAR	Maritime Electric	Tacoma Power
ENMAX Power Corporation	Metropolitan Water District of Southern California	TEPCO
EnWin Utilities	Modesto Irrigation District	Toronto Hydro-Electric System
EPCOR	Nashville Electric	TransAlta Corporation
ERCOT (Electric Reliability Council of Texas)	Natural Resources Canada	TransGrid
Eugene Water and Electric Board	New Brunswick Power	Transpower New Zealand
Eversource Energy	New York Power Authority	Wataynikaneyap Power PM
	Newfoundland and Labrador Hydro	

To register and for more information, visit <https://site.phedloop.com/event/TransmissionandDistribution2025/home/>



**7:00-8:30** Breakfast – Exhibit Hall  
Young Professionals Networking Breakfast

**8:30-9:45** Welcome Plenary – all tracks


8:30 Opening Remarks – Megan Owens, CEATI

8:45 Keynote Presentation – TBD

**9:45-10:30** Coffee Break – Exhibit Hall

	Session A1: Resilient and Sustainable Transmission Systems	Session B1: Distribution Systems of the Future	Session C1: Future-Ready Grid Planning and Operations	Session D1: Grounding & Lightning	Session E1: Integrated Vegetation Management and T&D Systems
	Session Chair: Asm Haldar, CEATI	See the latest advancements in action with live technology demonstrations			
10:30	OTD 33128: A Framework for Vulnerability Assessment of Line Structures and Line Exposures to Extreme Events – Kallol Sett, University at Buffalo	AI Agents: How AI Is Quietly Coming to Run the Utility Back Office – Mike Hejmej, Senpilot  	US1k Weather Model: Accurate Forecasts along Transmission Lines and Renewables – Chris Hyde, Meteomatics	Adaptation to the New Normal: A look at changing grounding practices for utilities Bryan Beske, Safearth	3D Deep Learning for Automated Vegetation Management in Distribution Networks: Classification and Clearance Measurement – Bin Huang, Eversource Energy
11:15	OTD 33139: Design Implications for Lattice Towers and Pole Structures Regarding Foundation Serviceability Limits – Tim Newson, Western University	Unlocking the Power of Behind-the-Meter Intelligence: A Collaborative Approach - Matt Sveinbjornson, ATCO, Maria Kretzing, Bidge.ly, Kevin Fennell, Landis+Gyr 	AI-Driven Probabilistic Weather Forecasting for Future-Ready Grid Planning and Operations – Laura Fieselman, Salient Predictions and Southeastern Utility (TBD)	IEEE 837: Standard For Qualifying Permanent Connections Used in Substation Grounding – Mark Pest, nVent	TBC

**12:00-1:30** Networking Lunch – Exhibit Hall

	Session A2: Resilient and Sustainable Transmission Systems	Session B2: Distribution Systems of the Future	Session C2: Future-Ready Grid Planning and Operations	Session D2: Advanced Methods in Substation Grounding	Session E2: Integrated Vegetation Management and T&D Systems
	See the latest advancements in action with live technology demonstrations	Session Chair: Cristina Terek, London Hydro			
1:30	Remote Operations with Drone Solutions for Inspection and Response – Christina Park, Skydio  	What do you get when you cross a Mammoth with a Marmot: ATCO's Innovative Response to Rebuilding with Resilience following the 2024 Jasper NP Wildfire – Matt Sveinbjornson & Trevor Tkach, ATCO Electric	Future-Proofing the Grid: Scalable Integration of Renewable Energy & Storage for Decarbonized Power Systems – Gabriel Vera, PSC Consulting	Carrying Out a Grounding Site Survey and Grounding Performance Testing at a Rural HV Substation - A Case Study – Ken Atkinson, ESB Networks	Redefining Utility Vegetation Management in Urban Environments – Katie Manende, Central Maine Power & Deven Morill, Lucas Tree Experts
2:15	TBC	How Entergy drives near real-time, large-scale, AI-powered storm damage assessment for faster, safer inspection and restoration, and for improved post-storm customer communication - Ned Biehl, Entergy & Matthew Johnson, Teledyne	A Systematic Approach to Validating Wind Farm Protection Settings Against Utility Criteria with Different Reference Points and Evaluating Minimum Reactive Power Support - Iman Kaffashan, Power System Studies and Mehrdad Rostami, PSC Consulting	Substation Lightning Protection Systems & Shielding Evaluation Methods – Dave Lewis, Bentley Systems & Kyle Nicholson, Duke Energy	Greener Grids, Resilient Networks: Insights from Europe's Ecological Corridor Management – Nick Ferguson, LiveEO & Michael Wahlgren, E.ON

**3:00-3:45** Coffee Break – Exhibit Hall

	Session A3: Resilient and Sustainable Transmission Systems	Session B3: Distribution Systems of the Future	Session C3: Future-Ready Grid Planning and Operations	Session D3: Grounding & Lightning	Session E3: Integrated Vegetation Management and T&D Systems
	<i>Session Chair: Brian Gallagher, ESB Networks</i>	<i>Session Chair: Chris Brouillard, National Grid</i>			<i>See the latest advancements in action with live technology demonstrations</i>
3:45	<b>Enhancing Field Decision-Making with AI-Powered Project Specifications Analysis</b> - Daniel Hartless, POWER Engineers	<b>Resiliency NOW!</b> A utilities experience with rapidly analyzing and upgrading circuits to improve resiliency – Chad Newton, Osmose & Daniel Wienhold, Baltimore Gas and Electric	<b>How Hydro One is Scaling Predictive Analytics to Transform Asset Management</b> – John Gracy, Hydro One & Sunny Nagra, eSmart Systems	<b>Ground Potential Rise Transfer Along Distribution Lines</b> – Babak Jamali – METSCO BBA	TBC
4:30	<b>Bridging the Data Management Gap</b> – Charles Johnson, Amidyne Solutions	<b>Optimizing the balance of cost and risk in the management of aging distribution infrastructure</b> – Casey Davis, Exponent & Arvind Simhadri, Pacific Gas and Electric Company	<b>ComEd's Voltage Optimization Corrective Maintenance Program Success</b> – Jason Pazen, ComEd & Kevin Flynn, Qualitest	<b>Safety issues along transmission corridors crossing congested areas</b> – Emanuel Petrache, Knectrics	TBC

5:30-7:00 Networking Reception – Exhibit Hall

# CEATI Transmission & Distribution Conference – Wednesday, November 12

7:00-8:30 Breakfast – Exhibit Hall

<b>8:30</b>	<b>Panel Session – All tracks</b>
	tbc

9:45-10:30 Coffee Break – Exhibit Hall

	Session A4: Resilient and Sustainable Transmission Systems	Session B4: Distribution Systems of the Future	Session C4: Future-Ready Grid Planning and Operations	Session E4: Integrated Vegetation Management and T&D Systems	Session F1: Innovations in Substations & Protection Systems
	<i>Session Chair: Scott Simons, Manitoba Hydro</i>		<i>See the latest advancements in action with live technology demonstrations</i>		
10:30	<b>Resiliency Under Load</b> – Mark Messenger, Osmose	<b>The Sault Smart Grid: A Scalable Model for Future-Ready Distribution Systems</b> - Robert Brewer, PUC Services, and Gary Johnson, Black & Veatch	TBC	<b>Data-Driven Operations Strategies for Long-Term Grid Resilience and Storm Recovery</b> – Alex Husby, Overstory & Matt Goff, Georgia Power	<b>Unlocking Substation Digitalization: A Unified Approach for the Modern Grid</b> – Jesse Koskela, Energyield & EcoPhi
11:15	<b>Use of consequence/probability risk matrices for work prioritization</b> – Issam ElAyadi, Avineet Panu & Matt Horowitz, Pacific Gas and Electric	<b>Utilizing Meter Data Management to Achieve AMI 2.0 for Reliability, Resilience, and Customer Satisfaction</b> – Thyagarajan Saravanan & Jagan Mohan Naredla, Con Edison	TBC	<b>Condition Based Vegetation Management: Aren't We Really Talking About Asset Management?</b> – Robert Vanderhoof, Arbormetrics	<b>Digital Substations and Virtualized Protection: Enhancing Safety, Efficiency, and Intelligence</b> – Yacine Mallem, ABB



12:00-1:30 Lunch – Exhibit Hall

	Session A5: Resilient and Sustainable Transmission Systems	Session B5: Distribution Systems of the Future	Session C5: Future-Ready Grid Planning and Operations	Session D4: Grounding & Lightning	Session F2: Innovations in Substations & Protection Systems
	Session Chair: Dan Chapoton, Duke Energy	Session Chair: Steve Greey, CEATI			
1:30	<b>AI-Enabled and Economics-Driven Asset Management Solutions –</b> Evan White, Mesa Associates	<b>Evaluating the Impacts of Customer Load Electrification on FortisAlberta's Distribution Network –</b> Kevin Wan, TETRA Tech and James Cooke, FortisAlberta	<b>Enhancing Awareness of the Grid through Advanced Load Forecasting Practices –</b> Robert Otal, METSCO BBA & Alex Bakulev, Charles River Associates	<b>Future of Commissioning: Current Injection Testing –</b> Brandon Dubrowski, Safearth	<b>Title TBC –</b> Amy Sinclair, Schweitzer Engineering Laboratories
2:15	<b>Ensuring Resilience in Transmission UG Cables –</b> Sean Bird, ESB Networks	<b>EV Forecasting in Distribution Planning -</b> Reza Dehghan, Eaton and Hydro One (tbc)	<b>Investing for Impact: How Proactive Planning Unlocks Value from Electric Transportation –</b> EA Technology	<b>Probability of Ignition for De-Energized Conductors subject to Electric and Magnetic Field Induction –</b> Matthew Davis, Exponent & Greg Davis, Pacific Gas & Electric	<b>Case Studies in Distributed Intelligence Automatic Restoration –</b> Lea Maurer, S&C Electric

3:00-3:45 Coffee Break – Exhibit Hall

	Session A6: Resilient and Sustainable Transmission Systems	Session B6: Distribution Systems of the Future	Session C6: Future-Ready Grid Planning and Operations	Session D5: Innovations in Substation Systems	Session F3: Innovations in Substations & Protection Systems
	Session Chair: Prasad Yenumula, Duke Energy				
3:45	<b>Panel Session – 3:45PM-5:15PM</b>  <b>Grid Edge Technologies</b>  Ashley Yue, ATCO Electric, Tyson Harper, Hardline Engineering, Henri Manninen, Gridraven, Michael Craig, Great River Energy, Tiffany Menhorn, Prisma Photonics Tom Cleaver, Heimdall Power	<b>Putting DSO into action: Grid Flexibility and the Clean Energy Transition –</b> Daniel Yung or TBD, National Grid	<b>Is complete grid awareness even possible? The latest technologies enabling the wide scale deployment of transmission line monitoring and why it matters –</b> Tom Cleaver, Heimdall Power	<b>Developing a Lifecycle-based Transformer Replacement Strategies: Establishing Minimum Reinvestment Thresholds –</b> Kasey Grant, Grant PUD & Todd Shepherd, Asset Management System Integration	<b>ANSI 46BC Function and Chilquinta's Enhancement –</b> Roberto A. Jazme Castro, Chilquinta Energia
4:30		TBC	<b>Shovel Ready: Using Regulatory Sandboxes to Unlock the Grid through Advanced Transmission and Distribution Technologies –</b> Grace Relf, Lawrence Berkeley National Laboratory & Mike Crowley, United Illuminating Avangrid	<b>The Roadmap Towards Net-Zero for HV Grids in North America: SF6-free Switchgear –</b> Todd Irwin, GE Vernova	<b>Simplifying Compliance: An Integrated Approach to Meeting NERC PRC-002 and PRC-005 Requirements –</b> Amy Sinclair, Schweitzer Engineering Laboratories

5:30-7:00 Women in Power Networking Reception  
Featuring a panel discussion