



4th Annual Northeast Power and Energy Conference
The Westin Portland Harborview, Portland, Maine
March 19 – 21, 2019



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Dear Participant,

Welcome to the **4th Annual Northeast Power and Energy Conference (NEPEC)**. We are so pleased to be offering this event in the southern part of the great State of Maine. We are happy to have some friends from southern New England as well as New York attend this year's conference. We are also excited for you to enjoy the city of Portland and its many restaurants, shops, and entertainment options. Speaking of entertainment, we hope you will join us for the **off-site event on Tuesday evening** and the **Wednesday evening reception** at the hotel. These will provide a great opportunity to meet new people who are key stakeholders in the power and energy industry.

We have a great program – it's built on the foundation of contributions by all attendees, past and present. The topics vary and we truly believe that there is something for everyone attending this conference. You'll learn about how current issues are being solved as well as how an evolving power system is providing challenges and opportunities for all. The electric energy supply is one of the most complex systems humanity has created and we hope that the conference gives you some tools to help keep this complex system running smoothly.

As any engineer will tell you, continuous improvement is an essential part of getting better. As the conference proceeds, please make notes of any critiques you can provide; good or bad. We appreciate your time in helping to make this conference better.

Thank you for attending **NEPEC**.
Have a great time and keep a lookout for next year's conference.

Sincerely,

David Stelmach, OMICRON & Paul Villeneuve, UMaine

Agenda

Tuesday | March 19, 2019

- 12:00 Registration
- 1:00 Welcome and Agenda Overview
David Stelmach, OMICRON
Paul Villeneuve, UMaine
- 1:15 Opening Remarks
Dr. Dana Humphrey, University of Maine
- 1:30 Keynote:
New England Clean Energy Connect (NECEC): A new HVDC Transmission
Link Between Quebec and Maine
Justin Tribbet, Engineering Leaders
Bernardo Escudero, AVANGRID Networks
- 2:15 Coffee Break and Tech Talk
- 2:45 Intelligent Disturbance Monitoring in the Modern Substation
Kevin Mahoney, Casco Systems
- 3:30 Challenges to Operating the Power System in a Changing Industry
Chris Root, Vermont Electric Power Company
- 4:15 Fundamentals of Phase Shifting Transformers
Brandon Davies, Supervisor – System Protection, TRC Solutions
- 5:00 Ask the Experts Panel Discussion
Moderated by Dave Stelmach, OMICRON and Paul Villeneuve, UMaine
- 5:30 Special Offsite Event
Pat's Pizza

Wednesday | March 20, 2019

- 08:00 Registration and Breakfast
- 08:30 Welcome and Agenda Overview
David Stelmach, OMICRON
Paul Villeneuve, UMaine
- 08:45 Keynote:
Hardware-in-the-Loop Testing for Microgrids and Other Advanced Control Systems
Michael Barber, SEL
- 9:30 Coffee Break and Tech Talk
- 10:00 Integrating Renewable Energy into the New England Power Grid: Opportunities and Challenges
Michael Henderson, ISO-NE
- 10:45 IEC 61850: It's All About the Files, Not the Drawings
Paul Robinson, National Grid
- 11:30 Lunch
- 12:30 Increase in Distribution Protection Technology Presents New Project Process
Tim Callahan, Eversource
- 1:15 NERC CIP – The High Impact of Low Impact in 2019
Nick Lauriat, N&ST
Kevin Mahoney, Casco
- 2:00 Coffee Break and Tech Talk
- 2:30 Lesson Learned Testing Microprocessor Relays
Bharadwaj Vasudevan, ABB
- 3:15 Voltage Sag Problems and Mitigation in Industrial Control Systems
Jalil Houari, ConED
- 3:45 PV Distributed Generation Protection
David Morrissey, American Electrical Testing
- 4:30 Ask the Experts Panel Discussion
Moderated by Dave Stelmach, OMICRON and Paul Villeneuve, UMaine
- 5:00 Evening Reception
"Top of the East", The Westin Portland Harborview

Agenda

Thursday | March 21, 2019

- 08:00 Registration and Breakfast
- 08:30 Welcome and Agenda Overview
Charles Sweetser, OMICRON
- 08:45 Keynote:
Digital Grid: How do we Make Sense of Today's Sensing?
Howard Self, ABB
- 09:30 Real World Experience in CT Sizing
Ben Wong, New York Power Authority
- 10:15 Coffee break and Tech Talk
- 10:45 Dry Type Current Transformers and Combined Electronic Voltage and
Current Transformers (eVCT) – An Alternative Approach and
Proven Technology for Extreme Service Conditions
Bob Middleton, RHM International
Haizhen Wang, RHM International
- 11:30 Meter Correction Based on Measured Data
Farhana Choudhury, Electro Industries
Ben Clark, OMICRON
- 12:00 Ask the Experts Panel Discussion
Moderated by Charles Sweetser, OMICRON
- 12:30 Adjourn

Notes



Your event contacts

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