



Hosted by:



2018 CIGRÉ Canada Conference

Calgary, AB, Canada • October 15–18, 2018 • www.cigre.ca

"Adapting the Grid to the Customer of the Future"

The 13th annual CIGRE Canada Conference on Power Systems will bring together key players in the electric power sector, including business leaders, system operators, asset managers, engineers, students, manufacturers, policy makers, regulators and academics. The conference is a unique forum to share exciting new research, to raise issues and awareness, to discuss future direction and ideas, and to network with leading professionals.

Organizing Committee

Mike Bartel, General Co-Chair
Rick Spyker, General Co-Chair
Daniel Wong, Technical Committee Co-Chair
Colin Clark, Technical Committee Co-Chair
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Kim Jordan, Local Arrangement Co-Chair
Stacey Rodgers, Local Arrangement Co-Chair
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Local Technical Committee

Andy Knight, University of Calgary
Arden Spachynski, ATCO Electric
Brent Thesen, Enmax
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Robert Baker, Teshmont
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Suresh Sharma, Epcor
Thomas Hartman, ATCO Electric
Tony Rutkunas, AltaLink
Wilsun Xu, University of Alberta

Conference Website
<http://www.cigre.ca>



Topics of special interest:

Papers are invited on all topics of interest falling within the conference theme, especially with the following focus:

Innovative and cost effective integration of renewable and distributed energy resources

- Innovation in renewable energy generation
- Distributed energy resources (DERs)
- Energy storage

Technology application to reduce costs and manage aging infrastructure

- Life extension methods and end of life predictive risk models
- Online asset health and performance monitoring
- Leveraging traditional technologies for new applications

Security and resilience to improve reliability

- Cyber security and physical security
- Large system disruption preparedness and recovery
- Geomagnetic and electromagnetic tolerant designs

Leveraging operational and customer data to optimize operations

- Data driven power system analytics or modelling
- Applications of machine learning
- Human performance improvements

Advanced telecommunication systems for the power grid

- Design and deployment of modern telecom systems
- Novel utilization of telecommunication in utility business
- Performance improvement of telecom systems

Modernization/digitalization of traditional distribution and transmission systems

- Opportunities and challenges with distribution evolution
- Innovation in power grid protection, control and automation
- Geospatial analysis and 3D modelling

Impact of electrification of transportation and other industries on the grid

- New technologies in electric vehicle (EV) charging
- Impact of growing electric vehicle adoption on the power grid
- Modelling of EV loads and escalating harmonic sources

Energy policy and market mechanisms needed to support the changing applications of the grid

- Policy and Regulation on capacity, demand, consumption and de-carbonization
- Market mechanisms to support energy storage and decentralized resources
- Transition from coal to alternative fuel powered generation

Submissions:

Authors should submit a **one-page abstract** through the online system at cfa.cigre.ca. The submitted abstracts will go through a peer review process. Upon abstract acceptance, a 6 to 8 page paper in CIGRÉ format must be submitted for the final contribution.

Accepted final contributions will be included in the conference proceedings and papers will be published in the online CIGRÉ library (www.e-cigre.org), provided the contributions are fully registered by at least one author and presented in person at the conference.

 **Special Poster Session for Students - Best Student Paper Award.**

 **For more information:**
TC Co-Chairs:
daniel.wong@altalink.ca
colin.clark@altalink.ca

Important dates:

March 11, 2018: Deadline for submission of abstracts (via website)

May 15, 2018 Notification of acceptance
Registration Opens

July 1st, 2018: Deadline for submission of final papers