PROGRAM

MONTREAL, QUEBEC | PALAIS DES CONGRÈS DE MONTRÉAL | OCTOBER 3–5, 2017
CHANGING CLIMATE, POWERING NEW STRATEGIES

windenergyevent.ca
#CanWEA2017
TUESDAY OCTOBER 3

REGISTRATION HOURS
Tuesday, October 3: 9:00am – 6:00pm
Wednesday, October 4: 8:00am – 6:00pm
Thursday, October 5: 8:00am – 4:00pm

10:00am-12:00pm  PRE-CONFERENCE WORKSHOP (ROOM 519A)
CANADIAN WIND MARKETS OUTSIDE OF QUEBEC: WHERE ARE THE OPPORTUNITIES FOR YOUR COMPANY?
Organized in collaboration with the Wind Energy TechnoCentre, this pre-conference workshop is not to be missed. You will learn about business opportunities and conditions in Canada’s main wind energy markets outside of La Belle Province. An overview of recent policy developments in provinces across Canada, with a spotlight on Alberta and Saskatchewan, will be offered. Presentations will focus on procurement initiatives, market mechanisms and political and business environments. The workshop will be held mostly in French.

WORKSHOP AGENDA:
1. Welcome, overview of the topics to be discussed
   Frédéric Côté, TechnoCentre éolien
2. Recent developments in eastern North America: New England and New York are looking to renewable energy
   Jean-Frédéric Legendre, CanWEA
3. Eastern Canada: the Maritimes and Ontario
   Jean-François Nolet, CanWEA
4. In the West: Alberta and Saskatchewan are attracting attention
   Jean-François Nolet and Evan Wilson, CanWEA
5. Support and services for your business
   Frédéric Côté and Monica Normand, TechnoCentre éolien
   Dave Lavoie, Wind Energy Cluster
6. Question and discussion period

2:00-4:00pm  OPENING PLENARY: THE ELECTRICITY GRID OF THE FUTURE (ROOM 710)
Cost-competitive renewable generation sources, rapidly advancing smart grid and storage technologies, shifting consumer expectations, and a global commitment to clean growth are transforming the way we produce and use energy. CanWEA 2017’s opening plenary session brings together independent experts and wind industry leaders to share their vision for the electricity grid of the future, explore the technological and market innovations that will make it a reality, and discuss the pivotal role wind energy will play in the transition.

WELCOME REMARKS
Cory Basil, CanWEA Board Chair, EDF EN Canada
Robert Hornung, President, CanWEA

THE ELECTRICITY GRID OF THE FUTURE
Alex Morgan, Wind Energy Analyst, Bloomberg New Energy Finance
Dave Sawyer, Environmental Economist, EnviroEconomics

CEO PANEL DISCUSSION
Moderator: Robert Hornung, President, CanWEA
   • Sophie Brochu, CEO, Gaz Métro
   • Brian Evans, CDO, Renewable Energy Systems Americas Inc
   • David Hickey, Head of Siemens Gamesa Business in Canada, Siemens Gamesa Renewable Energy
   • Lance Marram, CEO, Senvion North America – Senvion USA
   • László Varsányi, Vice President, New Ventures Power, Enbridge

THE EVOLUTION OF WIND FARM OPERATIONS AND MAINTENANCE OVER THE NEXT DECADE
Larry Barr, Executive Vice President of Operations and Maintenance, EDF-RS

4:00-6:00pm  WELCOME RECEPTION (TERRACE 725)
Make a great first impression by attending the Welcome Reception! Connect with attendees and exhibitors to kick off the start of the event.
9:00am-6:00pm  EXHIBIT HALL OPEN

8:30-10:00am  PLENARY: WIND ENERGY’S FUTURE DEMAND DRIVERS : VEHICLES, EXPORTS, CORPORATE SUSTAINABILITY COMMITMENTS (ROOM 710)
Even in a time of low demand growth, significant opportunities for the development of new wind energy in Canada are emerging as policymakers and consumers look to cut carbon pollution and spur clean growth. Panellists will look beyond utility procurement and government mandates to discuss the demand drivers that will open up new markets for Canada’s wind sector, including the rise of electric vehicles, the electrification of buildings and industry, the increasing interest in wind energy exports to the United States, and the upsurge in corporate renewable energy purchases.

• Robert Hornung, President, CanWEA
• Rochelle Pancoast, Managing Director, Gas & Renewables, TransAlta Corporation
• France Lampron, Director – Transportation Electrification, Hydro-Quebec
• William Hazelip, Vice President, Business Development, National Grid USA
• Edward Krapels, Chief Executive Officer, Anbaric
• Michael Weidemann, Executive Vice President, ENERCON
• Sean Drygas, Vice President – Finance, Bullfrog Power

10:00-10:30am  MORNING COFFEE BREAK (EXHIBIT HALL)

10:30am-12:00pm  CONCURRENT SESSIONS

OPPORTUNITY IN THE AGE OF DISRUPTION (ROOM 519A)
The rapid pace of technological innovation and the smarter collection and use of data are disrupting electricity business models and reshaping energy systems. This session will examine how forward-thinking wind farm operators, project developers and system planners can turn change into opportunity, enabling greater penetrations of renewable energy and generating additional value from wind facilities.

Session Moderator: Mark Tinkler, Customized Energy Solutions

A Chicken in Every Pot, a Lidar on Every Turbine
Aaron Culver, Wood Group – Clean Energy

The Portfolio Effect of a Diverse Mix of Renewable Generation
Errol Halberg, WSP

Vehicle-to-Grid: Plug-in Electric Vehicles Providing Demand Response and Grid Storage to Enable Greater Renewable Energy Integration
Nathaniel Pearre, Delhousie University

Next-Generation Solutions for Grid-Scale Energy Storage
Christian Perrault, Hydro Quebec

THINKING SMARTLY ABOUT THE FUTURE GRID (ROOM 519B)
Moving to high penetrations of renewable energy like wind energy is central to the modernization of our electricity grid. Making the transition will impact how the future electricity grid operates. This session will look beyond traditional integration approaches to assess how wind energy facilities can actively support grid reliability, work in tandem with storage and other generation technologies to provide important system benefits, and supply off-grid solutions.

Session Moderator: Raman Mall, SaskPower

Pan Canadian Wind Integration Study
Tom Levy, Natural Resources Canada

Integrating 2,000 MW of Wind Power into Canadian Electricity Networks
Patrice Godin, ENERCON

Operational Strategies for a Wind Park
Scott Harper, WEICan

Successfully Integrating Wind Power to an Off-Grid Network
Michel Carreau, Hatch
12:00-1:30pm  
**KEYNOTE LUNCHEON (TICKETED EVENT) (ROOM 710)**

**The Honourable Sergio Marchi, P.C.**

The energy transition in Canada requires new approaches to the planning and operation of the electricity grid that will power a clean, sustainable future. The Hon. Sergio Marchi, President and CEO, Canadian Electricity Association, will discuss the infrastructure challenges, technology innovation investments, policy considerations and public education needed to successfully implement the 2050 electricity system – while ensuring a healthy environment and vibrant economy for all Canadians.

Keynote address to be made at 1:00pm

1:30-2:30pm  
**AFTERNOON REFRESHMENT BREAK (EXHIBIT HALL)**

2:30-4:00pm  
**CONCURRENT SESSIONS**

**ZEROING IN ON ZERO INJURIES (ROOM 519A)**

Worker health and safety is an important focus of wind farm construction and operation, and there is always room to improve and refine the industry’s performance in this critical area. Expert speakers will show how individual companies can ensure they do a good job, and explain how industry participants can work together to sustain a safety culture in the wind energy sector.

**Session Moderator:** Chris Martin, TransAlta Corporation

- **Confined Space – Provincial, National and Global Perspectives**  
  Karl DeLooff, Acciona

- **Are We Doing Enough?**  
  Ben MacDonald, Vestas

- **Icing and Cold Climate Safety**  
  Charles Godreau, TechnoCentre Éolien

- **Advancements in Rescue Equipment and Tool Drop Protection Technology**  
  Scott Connor, Team 1 Academy

**THE DYNAMICS OF ENVIRONMENTAL SITING (ROOM 519B)**

Siting a wind energy facility is inherently challenging, and made even more complex by the need to weigh evolving regulatory requirements, cumulative effects on wildlife, and the potential impact of climate change on habitat availability. This session explores both ongoing and emerging issues that must be addressed during the environmental siting of proposed projects, and offers innovative ideas for responding to changing expectations.

**Session Moderator:** Janine Bacquie, NextEra Energy

- **Future Climate Conditions and Resulting Changes to Rare Species Ranges**  
  Shelley Lohnes, Savanta

- **A Quantitative Approach to Cumulative Bird and Bat Collision Effects Assessment**  
  Charlie Palmer, Hemmera

- **Regulator Update: Siting Wind Energy Projects in Alberta and Saskatchewan**  
  Jeremy Barretto, Osler

3:45-4:15pm  
**CanWEA ANNUAL GENERAL MEETING (FOR CanWEA MEMBERS ONLY) (ROOM 522B)**

At the AGM, the results of the online Board of Directors election will be announced, and the 2017-2018 CanWEA Board of Directors will be introduced. All CanWEA members are encouraged to attend this meeting, as they will be given the opportunity to appoint an auditor and to decide on any resolutions duly submitted to the meeting. A report will also be given on the activities and finances of the Association during the past year.

4:30-6:00pm  
**HAPPY HOUR IN THE EXHIBIT HALL**

Take this opportunity to unwind from the sessions and meetings! Meet with your clients and colleagues at an informal setting.
PLENARY: THE ELECTRICITY MARKET OF THE FUTURE (ROOM 710)

The rapid influx of low-cost, zero-carbon renewable energy generation is disrupting a century-old model for providing electricity and driving the transition to a more flexible, modern and responsive grid. Traditional commodity-based power markets are not designed to deal with these changes, leading jurisdictions in Canada and across North American to rethink how they buy, sell and value electricity. This plenary session will examine the electricity market reforms required to achieve high penetrations of renewable energy that will position Canada to meet its economic and environmental objectives without compromising affordability or system reliability.

• Jason Chee-Aloy, Managing Director, Power Advisory LLC

PANEL DISCUSSION

Moderator: Bonnie Hiltz, Government Relations and Regulatory Affairs Director, ENGIE Canada

• Jason Chee-Aloy, Managing Director, Power Advisory LLC
• Rob Gramlich, Founder, Grid Strategies LLC
• Leonard Olien, Associate, Solas Energy Consulting
• Kathleen Spees, Principal, Brattle Group
• Robert Stoddard, President & CEO, QWave LLC

SMART DECISIONS FOR A BETTER BOTTOM LINE (ROOM 519A)

Wind farm development decisions have a big impact on long term operations. Engage with firsthand experience from prominent companies as they share their insights on:

• What developers should consider now to improve operations later.
• What operators should do right away to catch the big issues.
• How money applied effectively now can translate into better longevity and profitability down the road.

This session brings examples from real life cases of wind turbine OEMs, operators and service providers where detailed and forward thinking could have and in some cases already is making the difference for their future operations.

Session Moderator: JJ Davis, Kruger Energy

You Agreed to What? Contractual Pitfalls to Avoid in the Development Phase and Lessons Learned from Operations

David Bale, DNV-GL

Early Detection with Vibration: Turbine Predictive Maintenance from Front to Back

Dr. Ashley Crowther, Romax Technology

O&M Considerations for Increasing Blade Tip Speeds

John Brennan, Wood Group – Clean Energy

Wind Turbine Performance Upgrades: The Evolution of the Power Curve

James Crouse, Vestas – American Wind Technology Inc.

PERSPECTIVES ON THE FUTURE OF THE WIND INDUSTRY IN QUEBEC (ROOM 519B)

This session will be held in French. After a dozen years of sustained development that have seen the commissioning of 4,000 megawatts of wind energy and the establishment of a real industry, Quebec’s wind industry is at a crossroads. The Quebec government’s 2030 energy policy is based on important objectives for the decarbonization of the provincial economy but does not address the construction of new electricity generation projects in the short term. This session will be an opportunity to discuss industry efforts in this new context, to present Transition Énergétique Québec, the new government agency responsible for achieving those objectives, and to offer different perspectives on the future of the industry in Quebec.

CanWEA and the Pursuit of Wind Development in Quebec

Jean-Frédéric Legendre, CanWEA

The Role of TEQ in the Energy Transition in Quebec

Johanne Gélinas, Transition Énergétique Québec

PANEL DISCUSSION

Session Moderator: Eva Lotta Schmidt, ENERCON

• Éric Normandeau, Léger Marketing
• Jonathan Gagnon, TACT Intelligence Conseil
• Philippe Dunschy, Dunschy Consultants en énergie
• Julie Cusson, Boralex
• Claude Canuel, Marmen Energy
• Pierre-Luc Desgagnés, Langlois Avocats
12:00-1:30pm
KEYNOTE LUNCHEON (TICKETED EVENT) (ROOM 710)
The Honourable James Gordon Carr, Federal Minister of Natural Resources
Canada, with its vast reserves of complementary renewable energy sources, has unmatched potential to lead the shift to a low-carbon future. But it will require strong targets, supportive policy, strategic infrastructure investments, and the engagement of Canadians in defining Canada’s energy future. The Honourable Jim Carr, Canada’s Minister of Natural Resources, will discuss his government’s strategy for ensuring our natural resources get to market sustainability while creating opportunities and jobs in the clean growth economy.
Keynote address to be made at 1:00pm

1:30-2:30pm
AFTERNOON REFRESHMENT BREAK (EXHIBIT HALL)

2:30-4:00pm
CONCURRENT SESSIONS

INNOVATING FOR THE FUTURE (ROOM 519A)
Innovation in wind turbine design, cold climate operation, and wind farm planning and financing are key to lowering costs, maximizing performance, and attracting investment. Panelists representing project developers, consulting firms and equipment vendors will focus on the latest advancements, their benefits and risks, and the role they will play in moving Canada’s wind industry forward.

Wind Turbine Design
Design of the Next Generation of Wind Turbines – Challenges and Approaches
Philippe Couturier, Siemens Gamesa Renewable Energy

What Do I Need to Know About the Gigantic Turbines That OEMs are Proposing For My Project?
Advantages, Risks and Mitigants of New, Large Wind Turbines
Philippe Brodeur, DNV-GL

Cold Climate and Icing Operations
Retrofitting the Wicetec Ice Protection System on Turbines Affected by Extreme Icing: Our Experience
Sebastien Trudel, EDF EN Canada

Achieving Reliable Energy Production During Winter Months
Monelle Comeau, ENERCON

Wind Farm Planning and Financing
Resource Variability and the Role of Resource Insurance
Alexander Medd, WSP Canada Inc.

Insurance Trends and Rates for the Wind Industry
Christi Edwards, Chubb Insurance Company of Canada

CAPTURING THE COMPLEXITIES OF WIND ENERGY RESOURCES (ROOM 519B)
Accurate wind energy resource assessment is a critical factor in the development of successful wind projects. Expert speakers will provide updates on new state-of-the-art techniques and technologies designed to reduce uncertainty in energy production estimates, increase energy yield, predict icing losses, and provide investment-grade data in severe climatic conditions.

Session Moderator: Christian Masson, École de technologie supérieure

Resource Assessment and Energy Yield in Severe Climates: A Case Study Involving Lidar
Matthew Smith, ZephIR Lidar

A Multi-Project Validation Study of a Time Series-Based Wake Model
Mark Stoelinga, Vaissala

New Method for Estimating Energy Losses Caused by Blade Icing in Cold Climates
Adnan Shah, DNV-GL

Geographic Dependency of Temperature and Turbulence Intensity for Turbine Optimization Potential in Canada
Randolph Evans, Siemens Gamesa Renewable Energy

3:30-5:00pm
CLOSING DESSERT RECEPTION
End your time at CanWEA 2017 by indulging your sweet tooth and connecting with fellow delegates. This is the perfect opportunity to solidify new business relationships and say goodbye to old and new friends.
WEDNESDAY, OCTOBER 4

10:00am-10:20am
Maintaining Optimal Performance Through Operational Phase
Speaker: Martin Hamel, Senior Project Manager – Renewable Power, HATCH

1:30pm-1:50pm
Merging Drones & Wind Technology
Speaker: Trevor Bergmann, CEO, AeroVision Canada Inc.

2:00pm-2:20pm
Precision Grouting on Wind Energy Projects
Speakers: Roxanne Ouellet, EIT & Francis Mongeon, P.Eng, BASF Construction Chemicals, Construction Systems

2:30pm-2:50pm
The value of an integrated Wind Power and Energy Storage solution; turning excess energy into dispatchable power
Speaker: Martin Larocque, Board Member, Energy Storage Canada

3:20pm-3:40pm
Unveiling of ENERCON’s new 3 MW series
Speaker: Nicolas Bourbonniere, Commercial Director, ENERCON

THURSDAY, OCTOBER 5

10:00am-10:20am
Optimizing Wind Turbine Life-cycle Cost using Performance-Based Maintenance Contract
Speaker: Dr. Mohamed Ahmed, Senior Planning Engineer, SNC-Lavalin

10:30am-10:50am
(this session will be held in English)
Service or Product Innovation Funding
Speaker: Pierre Chartier, Innovation Management Advisor

2:00pm-2:20pm
The benefits of partnerships in research, innovation and commercialisation
Speaker: Matthew Wadham-Gagnon, Business Development Manager, TechnoCentre

2:30pm-2:50pm
(this presentation will be held in French)
Service or Product Innovation Funding
Speaker: Caroline Veilleux, Procurement Team Member, Build in Canada Innovation Program

The views, opinions and information expressed in the presentation theatre are those of the speaker and/or company appearing in the theatre and do not necessarily reflect the views and opinions of CanWEA or the CanWEA Partnership.
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