

### APRIL 13

9:00 – 10:00 *Opening Remarks and Plenary Session*

- *Robert Hornung, President, CanWEA*

10:00 – 10:30 *Refreshment Break (all 3 tracks)*

#### **Breakout Session 1. Resource Assessment: Standards and Latest Developments**

*The presentations in this session will provide fundamentals of traditional wind resource assessment standards and protocols, sound from wind turbines, which can be a fundamental component of wind project design and therefore wind resource assessment, and finally several methods to extrapolate wind measurements to different heights, a key aspect of wind project assessment and design will be examined.*

10:30 – 12:00 *Session Moderator: Jim Salmon, Zephyr North*

- Standards & Measurements 101
- Technical Relationship Between Sound and Wind Resource Assessment
- Advances in Wind Flow Modeling

12:00 – 13:30 *Lunch Break (all 3 tracks)*

#### **Breakout Session 2. Latest Developments in Remote Sensing**

*This session will examine the current state of the art in remote sensing, and will answer such questions as: Can developers use remote sensing to reliably and accurately estimate annual energy output of planned projects? And, what is the value of remote sensing in resources assessment and beyond?*

13:30 – 15:00 *Session Moderator: To be confirmed*

- Remote Sensing – Lidar
- Remote Sensing – Sodar
- Bankability of Remote Sensing

15:00 – 15:30 *Refreshment Break (all 3 tracks)*

#### **Breakout Session 3. Addressing Cold Weather Challenges**

*Attendees will be provided information related to the real impact of cold climate on the quality of the energy predictions as well as the wind farm performance itself. Also included in this session will be an update into the state of the art and latest R&D in cold climate applications.*

15:30 – 17:00 *Session Moderator: Antoine Lacroix, Wind Energy Engineer, Natural Resources Canada (invited)*

- Measurement Challenges in Cold Weather (recovery rates & instrumentation)
- Trends and R&D in Cold Climate Applications (anemometry, blades)
- Impact of Cold Weather and Icing on Wind Turbine Performance

17:00 – 18:30 *Networking Reception (all 3 tracks)*

### APRIL 14

#### **Breakout Session 4. Wind Farm Performance Assessment**

*This session will address some of the key issues in the art of predicting wind farm production and its associated uncertainty. The session will answer questions such as: Do we know what we should expect from our project? Do we know how accurate our predictions are?*

8:30 – 10:00 **Session Moderator: Stewart Russell, Development Engineering Manager, Capital Power Corporation**

- New Trends in Uncertainty Analysis
- Impact of Long-Term Adjustments on Energy Yield Estimates: Trends and Methodologies
- Establishing a Baseline: How Much Energy a Wind Farm Should Have Produced

10:00–10:30 **Refreshment Break (all 3 tracks)**

#### **Breakout Session 5. Wind Farm Performance in Practice**

*Once it is constructed, if a wind plant is to perform to its predicted level of production it is important that operators assist by working to maximize wind plant availability, to maximize energy yields, and to maintain the wind asset in optimum condition for its expected lifespan. This session will discuss strategies to achieve these goals from a variety of perspectives.*

10:30 – 12:00 **Session Moderator: Sean Whittaker, Vice-President Policy, CanWEA**

- Operators Perspective on Performance Tracking
- Using Inspections to Improve Performance & Availability
- Performance Metrics in Use
- Preparing to Transition to Post Warranty

12:00 – 13:30 **Networking Lunch (all 3 tracks)**

#### **Breakout Session 6. Wind Farm Performance (Panel Discussion)**

*This panel discussion will explore aspects related to wind asset performance and operational challenges from various perspectives – operators, consultants and manufacturers will discuss wind farm performance issues.*

13:30 – 15:00 **Session Moderator: Marc LeBlanc, Director, Garrad Hassan Canada Inc**

- Acciona Energy North America
- Frontier Power Systems Inc.
- Erie Shores Wind Farm
- *To be confirmed*

15:00 – 15:30 **Refreshment Break (all 3 tracks)**

15:30 – 16:30 **Moving Forward with Wind Resource Assessment & Performance**

- **Tom Levy, Manager of Technical and Utility Affairs, CanWEA**

16:30 **End of Event**