



NOVA SCOTIA SOLAR SUMMIT

DECEMBER 4, 2019 - AGENDA

7:45am-8:30am	Registration and Tradeshow Networking with Continental Breakfast – Foye
8:30am-9:00am	Opening Remarks – NS CD <i>Speakers:</i> <ul style="list-style-type: none">• Wesley Johnston - President and CEO (Canadian Solar Industries Association)• The Honourable Derek Mombourquette – Minister, Nova Scotia Department of Energy and Mines (to be confirmed) Host – Peter Craig, Nova Scotia Department of Energy and Mines
9:00am-10:00am	AM Plenary Session: Nova Scotia Solar Market Update – NS CD <p>This presentation will provide updates on three programs that have been a key driving force in growing the solar market in Nova Scotia – Halifax Solar City, Solar Electricity for Community Buildings, and SolarHomes. Managers from each program will present and field questions from audience members.</p> <i>Speakers:</i> <ul style="list-style-type: none">• Kevin Boutilier, Solar City Officer (Halifax Solar City)• Sheena Parris, Clean Energy Development Coordinator (Nova Scotia Department of Energy and Mines)• Dave Corning, Program Manager, SolarHomes (Efficiency Nova Scotia) Host: Lyle Goldberg, CanSIA
10:00am-10:30am	Tradeshow Networking (with Tea/Coffee) & Transition – Foyer
10:30am-11:30am	AM Concurrent Session: Financing and the Business Case for Mid-Scale Solar Projects – NS CD <p>How are commercial scale solar projects being resourced and what can be done to accelerate development? Panel member expertise spans impact finance, property development and management, energy technology/data and energy law. Panelists will share insight into existing and emerging models for resourcing mid-sized PV systems.</p>

Speakers:

- Jonathan Frank: Managing Director and Head of Projects, CoPower (Green Bonds)
- Murray McIntyre: Business Development Manager, Infrastructure and Cities, Siemens (Energy Performance Contracts)
- Peter L'Esperance, Energy Lawyer, McInnis Cooper (Solar Schools Canada)
- Edgar Lopez, Sustainability Engineer (East Port Properties)

Moderator: Christie Chaplin Saunders, (Solar Nova Scotia)

AM Concurrent Session: The Next Wave of Solar Installers: Training and Occupational Standards – NS B

The solar industry is growing by leaps and bounds. In the United States, solar installer represents the fastest growing occupation in the country. A report produced by CanSIA in April 2018 projects over 1100 solar jobs in Nova Scotia by 2030. As the industry grows and evolves, it is important to ensure that the Province's solar industry has access to up-to-date training. At the same time, it is important to develop occupational standards that serve as a benchmark to assess existing and new training programs, including identifying any gaps. This presentation will provide an update on NSCC's solar installer program as well as the solar installer occupational standards recently developed by Electricity Human Resources Canada.

Speakers:

- Shawn MacAulay, Instructor (NSCC)
- Kim MacLaren, Project Manager (Electricity Human Resources Canada)

Host: Kevin Boutilier, Halifax Solar City

11:30am-11:45am

Tradeshow Networking & Transition – Foyer

11:45am-12:15pm

AM Concurrent Session: – NS CD

Utilizing Solar Roadmap to Unlock Nova Scotia's Solar Potential Solar Nova Scotia's Discover Solar PV Sessions

Developing a solar roadmap for Nova Scotia is important for a variety of reasons, including transitioning Nova Scotia's grid from "coal to clean", helping the Province achieve GHG and renewable energy targets and creating green jobs across the province. CanSIA's Policy and Regulatory Affairs Manager, Lyle Goldberg, will provide an overview of the Nova Scotia Solar Roadmap along with a number of recommendations to help unlock the province's solar potential.

Through Discover Solar PV sessions, Solar Nova Scotia is addressing the need for customer education in relation to residential PV. Discover Solar PV's Project Manager will provide a snapshot of the content offered, where presentations have taken place and the response to date from Nova Scotians across the province.

Speakers:

- Lyle Goldberg, Policy and Regulatory Affairs Manager (Canadian Solar Industries Association)
- Christie Chaplin Saunders, Project Manager, Discover Solar PV (Solar Nova Scotia)

Host: Leigh-Anne Outhouse, Nova Scotia Department of Energy and Mines

AM Concurrent Session: Nova Scotia Solar Research and Data Mapping Update – NS B

Falling prices and incentive programs have resulted in a rapid increase in the number of residential solar PV systems installed in Nova Scotia. Increased market penetration of intermittent energy sources can impact grid performance due to a misalignment with loads. As more systems come on-line, solar production data – including inverter clipping, shading, and snow coverage of a PV array - can be used to improve our understanding of the grid impacts of solar energy.

Dalhousie University has partnered with the NSCC to process collected solar data from Halifax Solar City and IKEA. The objective of this research is to influence future solar PV programs and policies. The research will also be used to assess the size and use of energy storage to increase self-consumption (residential) or reduce peak demand (commercial); and the diversification of solar systems throughout Nova Scotia to enhance resiliency during electrical outages.

Speakers:

- Dr. Wayne Groszko, Research Scientist (Nova Scotia Community College)
- Bryan Ellis, Renewable Energy Storage Laboratory (Dalhousie University)

Host: Dave Corning, Efficiency Nova Scotia

12:15pm-1:00pm

Buffet Lunch & Tradeshow Networking – Foyer/NS CD

1:00pm-2:15pm

**Keynote: How to Develop a Community-Based Solar Garden Model
– NS CD**

Speaker:

- Timothy DenHerder-Thomas, Cooperative Energy Futures, Minneapolis, Minnesota

Cooperative Energy Futures is one of the leading organizations in the United States promoting and developing community solar projects. They have built, or are in the process of constructing, 8 community solar gardens. They have developed 6.9 MW (securing \$16 million in financing) of low-income-accessible community solar arrays that are cooperatively-owned-and-operated across urban, suburban, and rural Minnesota. These projects will offset utility bills of over 700 households in the State for the next 25 years. This presentation will provide insight into best practices and lessons learned to assist Nova Scotia in moving in this direction.

Host: Lyle Goldberg, CanSIA

2:15pm-2:45pm

Tradeshow Networking (with Tea/Coffee) & Transition – Foyer

2:45pm-3:30pm

**PM Concurrent Session: Nova Scotia Municipalities and First Nations
Demonstrating Leadership in Renewable Energy – Panel Discussion
– NS CD**

This panel discussion will highlight how Nova Scotia municipalities and First Nation communities are developing renewable energy projects (including community solar) and strategies to tackle climate change. Topics include financing models, policy and regulatory challenges, public engagement strategies and potential for the future.

Presenters:

- Greg Goubko, Energy Finance and Development Coordinator (Town of Bridgewater)
- Aaron Long, Director of Business Services (Alternative Resource Energy Authority)
- Terry Thibodeau, Renewable Energy and Climate Change Coordinator (Municipality of Digby)
- Joanna Burris, Project Administrator, Solar Colchester (Municipality of Colchester)
- Roby Douglas, VP Operations (Natural Forces)

Moderator: Sarah Riley Rosen, R&G Strategic Communications

PM Concurrent Sessions: – NS B

Distributed Energy Resources and Smart Grid Integration Hybrid Technology Options for Residential Solar Customers

As the cost of battery storage continues to decline, residential customers are starting to consider pairing battery storage with their grid-tied solar PV system. Nova Scotia Power will highlight their “Intelligent Feeder Project” in Elmsdale, Nova Scotia where the utility is working with customers and industry leaders to examine how battery technology and microgrids can help utilize renewable energy more efficiently, while providing back-up power to customers during power outages.

The second half of this session will focus on the latest technology in emergency back-up systems for both off-grid and grid-tied residential solar customers. These systems can replace traditional generators and can provide enough power during an outage to run essential items such as a refrigerator, freezer, lights, water pump or sump pump. For grid-tied customers, the back-up system is able to switch to battery power when the grid is down.

Speakers:

- Jill Searle, Smart Grid Program Manager (NSPI)
- Chrissy Dreger, Manager Emerging Technology (NSPI)
- Peter Wetzel, Operations Manager (Microgreen Solar Inc.)

Host: Christie Chaplin Saunders, (Solar Nova Scotia)

3:30pm-3:45pm

Transition & On-site Evaluation

3:45pm-4:00pm

Closing Remarks & Prize Draw – NS CD

Speaker:

- Lyle Goldberg, CanSIA

4:00pm

Summit Ends

THANK YOU TO OUR SPONSORS



Networking Opportunity!

Want to meet other solar industry professionals working in Nova Scotia? After the Nova Scotia Solar Summit, CanSIA will be once again hosting its popular Solar Mixer just a few minutes walk from the Summit venue at the Auction House from 4:30-7:30pm. Join us for a drink after the Summit and network with your peers in the solar industry. Please note that the Mixer is being held independently from the Summit, and has separate registration. Registration is available online at cansia.ca/solarsummit or in-person at the Solar Summit registration desk until 3:00 PM.