

Clean Energy Innovation in Canada

10 November 2016

Disclaimer

- *The Clean Energy Solutions Center does not endorse or recommend specific products or services. Information provided in this webinar is featured in the Solutions Center's resource library as one of many best practices resources reviewed and selected by technical experts*

Some Housekeeping Items

Two Options for Audio (select audio mode):

1. *Listen through your computer.*

- Please select the “mic and speakers” radio button on the right hand audio pane display

2. *Listen by telephone.*

- Please select the “telephone” option in the right-hand display, and a phone number and PIN will display.

3. *Panelists - Please mute your audio device when not presenting*

4. *Technical Difficulties:*

- ***Contact the GoToWebinars Help Desk: 888.259.3826***

Some Housekeeping Items (continued)

- **To ask a question**
 - Select the 'Questions' pane on your screen and type in your question
- **Having trouble viewing the webinar?**
 - PDFs of the presentations can be accessed at <https://cleanenergysolutions.org/training>
- **Share with others or watch it again**
 - A video/audio recording of this Webinar and the slide decks will be made available at: <https://cleanenergysolutions.org/training>
- **Recordings are also available on our YouTube channel**
 - <http://www.youtube.com/user/cleanenergypolicy>

Agenda

1

Welcome & Introductory Remarks

2

Overview of the Clean Energy Solutions Center

- **Eric Lockhart**, National Renewable Energy Laboratory

3

Presentations

- **Frank Des Rosiers**, Natural Resources Canada
- **Andrew Noseworthy**, Atlantic Canada Opportunities Agency
- **Andy Reynolds**, Canada's National Research Council
- **Chris Boivin**, Sustainable Development Technology Canada
- **Bettina Hamelin**, Natural Sciences And Engineering Research Council Of Canada

4

Question and Answer Session

Includes additional technical experts:

- **Dean Haslip**, Natural Resources Canada
- **Gilles Jean**, Natural Resources Canada
- **Jinwen Chen**, Natural Resources Canada

5

Attendee Survey

Solutions Center Background and Vision

CleanEnergySolutions.org

The Clean Energy Ministerial (CEM) launched the Clean Energy Solutions Center in April 2011. The Solutions Center:

- Is one of 13 CEM Initiatives, which include:
 - Global Superior Energy Performance Partnership
 - Super-Efficient Equipment and Appliance Deployment initiative
 - Global Lighting and Energy Access Partnership
- Helps governments design and adopt policies and programs that support the deployment of clean energy technologies
- Has more than 35 partners, including IRENA, IEA, IPEEC, Sustainable Energy for All, Bloomberg New Energy Finance and Leonardo Energy
- Is co-chaired by the U.S. Department of Energy and the Australian Department of Industry.



Australia



Sweden



United States



Canada



France



India



Indonesia



Mexico

Clean Energy Solutions Center

CleanEnergySolutions.org

Goals

- **Serve** as the primary resource for clean energy policy information, assistance and peer learning for governments and government-affiliated practitioners.
- **Share** policy best practices, data, and analysis tools across countries.
- **Deliver** dynamic services that enable expert assistance, learning, and peer-to-peer sharing of experiences.
- **Foster** dialogue on emerging policy issues and innovation across the globe.

Primary

- Government Policy Makers
- Advisors

Secondary

- Private Sector Companies
- Energy Entrepreneurs and Investors
- Non-Governmental Organizations
- Civil Society
- Others Engaged in Clean Energy

Target Audiences

Ask-an-Expert: Our Experts in Action

CleanEnergySolutions.org

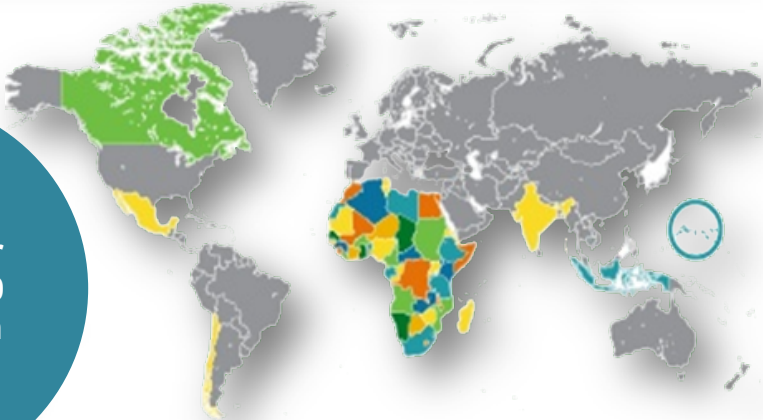


Connects policymakers to a global network of more than 30 energy experts for quick-response technical assistance on policies and programs relating to:



- Renewable Energy
- Energy Access
- Energy Efficiency
- Smart Grid
- Transportation
- Utilities

Delivered no-cost assistance for more than 160 requests from over 75 countries.



Please submit your question directly at cleanenergysolutions.org/expert

Frank Des Rosiers, Natural Resources Canada



Frank Des Rosiers was appointed Assistant Deputy Minister of Innovation and Energy Technology Sector (IETS) in May 2013. IETS is the primary funder and performer of federal, non-nuclear, energy RD&D in Canada. Prior to his appointment, Frank served as General Director, Tax Policy at Finance Canada and as Assistant Secretary, Priorities and Planning at the Treasury Board Secretariat. A former member of NRCan's management team, Frank served as Director General, Strategic Policy Branch from 2003-07. Between 1998 and 2003, he worked in Intergovernmental Affairs at the Privy Council Office as Chief of Staff to the Deputy Minister and Director, Economic and Fiscal Analysis.

Frank holds a Master's Degree in Public Administration from Harvard University (Fulbright Scholar). He also holds a B.A. in Economics from Laval University and a M.A. in Economics from the University of Montreal.

Andrew Noseworthy, Atlantic Canada Opportunities Agency



Andrew Noseworthy is the Federal Co-Chair, First Ministers' Meeting (FMM) Working Group in Clean Technology, innovation and Jobs. In addition to this temporary assignment, he is Senior Advisor to the President of ACOA (Energy and Special Initiatives). In conjunction with his assignment with the FMM Working Group, Mr. Noseworthy is assisting in coordinating Innovation, Science and Economic Development's (ISED) overall approach to clean technology and clean growth.

As part of his duties with ACOA, Andrew is responsible for the operations of the Atlantic Canada Energy Office, a partnership initiative between ACOA and Natural Resources Canada, based in St. John's with additional staff elsewhere in the Atlantic region.

Prior to joining the federal public service, Andrew had an 18-year career with the Government of Newfoundland and Labrador and held a number of senior appointments, including Associate Secretary to Cabinet, Deputy Clerk of the Executive Council, Deputy Minister of Intergovernmental Affairs, and Assistant Secretary to Cabinet (Economic Policy).

Andy Reynolds, Canada's National Research Council



Andy Reynolds is General Manager of the Energy, Mining and Environment portfolio at Canada's National Research Council, where he leads a team of around 200 scientists, engineers, managers and technicians addressing innovation challenges in the resource industries. With effort focused in major multi-year programs in mining and clean tech, the team works with clients and stakeholders throughout Canada to reduce technology risks and improve collaboration along value chains.

Andy earned his BEng and MSc degrees from the Royal Naval Engineering College. In 1998, he was designated a Chartered Engineer in the UK and, in 2011, a Professional Engineer in Alberta. He is also a member of both the UK Institution of Mechanical Engineers and the City and Guilds Institute.

Chris Boivin, Sustainable Development Technology Canada



Chris has worked in the Cleantech sector for over 15 years. As VP Investments at Sustainable Development Technology Canada, Chris is currently an Officer of the Foundation managing over \$1B in government funds. Chris is accountable for SDTC investment deal flow, due diligence and selection functions, and ensuring portfolio diversity, balance and resilience to maximize the Foundation's performance in delivering economic and environmental benefits to Canadians.

Previously, Chris led SDTC's pilot Entrepreneur in Residence (EIR) program and was seconded to SDTC portfolio companies to help them develop and implement a plan for transitioning from technology development companies to growth companies.

Chris is an expert in clean energy and energy efficient technologies, trends and issues. He is also well versed in Greenhouse Gas quantification and intellectual-property. Chris has also worked in photovoltaic manufacturing (NewSun Technologies) and fuel cells market analysis (Dupont).

Dr. Bettina Hamelin, Natural Sciences and Engineering Research Council of Canada



As Vice-President of Natural Sciences and Engineering Research Council's Research Partnerships Directorate, Dr. Bettina Hamelin is responsible for a range of programs designed to stimulate increased public/private collaboration and technology transfer and to maximize the benefits that university and college research provides to Canada. Bettina has more than 15 years of experience in the biotech and international pharmaceutical industry as well as 10 years of academic experience as a tenured professor at the Faculty of Pharmacy at Université Laval.

Prior to joining NSERC, Bettina held a variety of positions at Pfizer Canada, most recently as Canadian Medical Lead, Vaccines, and Head, Strategic Research Partnerships, Western Canada. Early roots in biology and chemistry (Vordiplom, Universität Kaiserslautern, Germany) have lead Bettina to complete a B.Sc. in pharmacy and a Doctor of Pharmacy, both from the University of Kentucky, U.S. and an EMBA in Healthcare from the University of British Columbia, Canada.

Question and Answer Session

Please submit any questions through the “Question Pane” of the GoToWebinar panel

Questions



The slides and an audio recording of this Webinar will be made available following the webinar.

- Webinar recording, presentations, and information on upcoming and previously held webinars:
 - <https://cleanenergysolutions.org/training>
- Webinar recordings at the Clean Energy Solutions Center YouTube page:
 - <https://www.youtube.com/user/cleanenergypolicy>

Attendee Survey

How did we do?

Your feedback is important! Please complete the poll on your screen



Your Participation is Appreciated!

THANK YOU!

An audio recording of this Webinar will be made available following the webinar.

- Webinar recording, presentations, and information on upcoming and previously held webinars:
 - <https://cleanenergysolutions.org/training>
- Webinar recordings at the Clean Energy Solutions Center YouTube page:
 - <https://www.youtube.com/user/cleanenergypolicy>
- For more information on the “Ask-an-Expert” program:
 - <https://cleanenergysolutions.org/expert>