

**CLEAN ENERGY
SOLUTIONS CENTER**

The PowerShift Atlantic Smart Grid demonstration of a Virtual Power Plant

July 2, 2014



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Welcome & Introductory Remarks

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Overview of the Clean Energy Solutions Center

- **Sean Esterly**, National Renewable Energy Laboratory

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Presentations

- **Jen Hiscock**, Science and Technology Advisor, Natural Resources Canada
- **Michel Losier**, Program Director, PowerShift Atlantic, New Brunswick Power Corporation and Director, Customer Engagement, New Brunswick Power Corporation
- **Praveen Rosario**, System Integration Lead, PowerShift Atlantic, Stantec Consulting Ltd.

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Question and Answer Session

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Attendee Survey

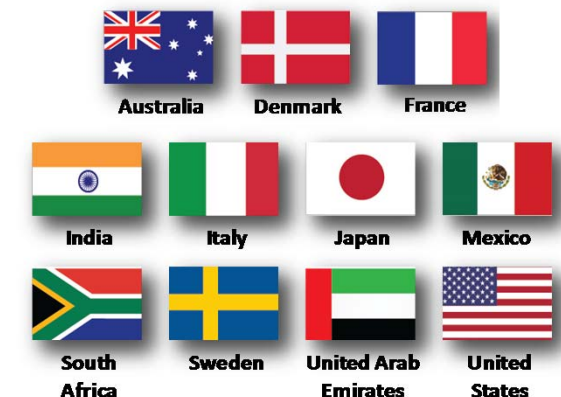
Solutions Center Background and Vision

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CleanEnergySolutions.org

The Clean Energy Ministerial (CEM) launched the Clean Energy Solutions Center in April 2011 for major-economy countries.

- One of 13 CEM Initiatives including:
 - Global Superior Energy Performance Partnership (GSEP),
 - Super-Efficient Equipment and Appliance Deployment (SEAD) initiative,
 - Global Lighting and Energy Access Partnership Global LEAP)
- Led by U.S. Department of Energy, Australia Department of Industry, International Copper Association, and other CEM partners
- Solutions Center is unique as a CEM initiative that delivers services to most countries.
- Has nearly 35 partners, including UN-Energy, IRENA, IEA, IPEEC, Sustainable Energy for All, Bloomberg New Energy Finance and Leonardo Energy



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

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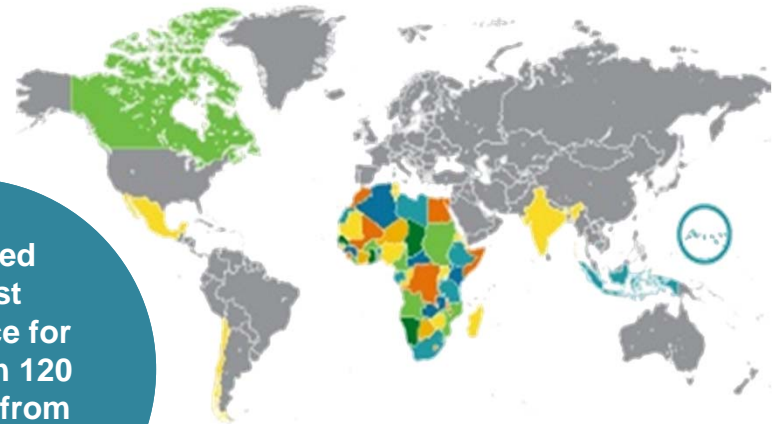


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- Energy Access
- Energy Efficiency
- Smart Grid
- Integrated Planning
- Regulators and Utilities



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Ask-an-Expert

- Technical assistance from global experts on clean energy policy topics

Training/Peer-to-Peer Learning

- Webinars, videos and other resources

Resources

- Reports, data, and analysis tools related to clean energy policy

Stay Informed

- Subscribe to our newsletter for clean energy policy updates

Jen Hiscock, Science & Technology Advisor, Natural Resources Canada

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Jen Hiscock works with the CanmetENERGY research labs at Natural Resources Canada on smart grid development and the integration of renewable and distributed energy resources. She represents Canada as a national expert in the IEA - International Smart Grid Action Network (ISGAN), and facilitates knowledge exchange and collaboration on smart grid projects in Canada as manager of the Canada Smart Grid Action Network. With engineering and business degrees, Jen studies the dynamics of innovation surrounding the technology and policy development of smart grid and distributed energy resources.

Michel Losier, P. Eng., Program Director, PowerShift Atlantic, New Brunswick Power Corporation and Director, Customer Engagement, New Brunswick Power Corporation

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Michel Losier is the Program Director of PowerShift Atlantic; a Natural Resources Canada, Clean Energy Fund project. As well, he is the Director of Customer Engagement for Reduce and Shift Demand at New Brunswick Power Corporation. He is a graduate from the University of New Brunswick in Mechanical Engineering (1984) and a member of the Association of Professional Engineers and Geoscientists of New Brunswick. Michel and his team has been working diligently on collaborative and innovative solutions, engaging customers and leveraging new energy storage technologies to better integrate renewables such as wind in the Maritimes.

Praveen Rosario, Systems Integration Lead, PowerShift Atlantic, Stantec Consulting Ltd.

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Praveen Rosario, M.Sc.E. is the Systems Integration Lead for the PowerShift Atlantic (PSA) project. He holds M.Sc.E. (Electrical Engineering, 2011) and B.Sc.E. (Electrical Engineering, 2008) degrees from the University of New Brunswick. He has industrial and academic experience in distributed power generation, smart grid, power system design and analysis, and optimization techniques. Praveen and his team have designed and implemented two Virtual Power Plants (VPPs) as part of the PSA project, and they are currently monitoring and evaluating the end-to-end solution through the demonstration phase of the project. Praveen is also actively involved in the development of the project business case.

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Questions



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