

Operating High Variable, Renewable Generation Power Systems: Lessons Learned from Ireland and Northern Ireland

16 September 2015

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**

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

3

Presentations

- **Robbie Aherne**, DS3 Programme Manager, EirGrid
- **Lisa McMullan**, DS3 Program, EirGrid

4

**Question and
Answer
Session**

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



Denmark



India



Indonesia



Italy



Japan



Mexico



South Africa



France



United Arab Emirates



United States

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

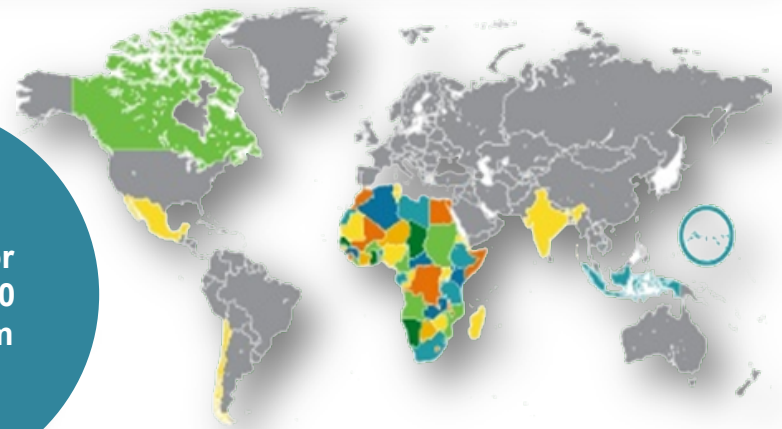


Connects policymakers to a global network of more than 30 energy experts for quick-response technical assistance on policies and programs relating to:



- 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 a question directly at cleanenergysolutions.org/expert
Or contact me directly to find out how the Ask-an-Expert program can benefit your work:
Sean.Esterly@nrel.gov | 303-384-7436

Robbie Aherne, DS3 Programme Manager, EirGrid



Robbie Aherne is the DS3 Programme Manager at EirGrid, the Transmission System Operator in Ireland. He received his BE in Electrical Engineering from University College Cork, Ireland, and recently completed an MSc in Electrical Power Systems from the University of Bath, United Kingdom. He has been working in EirGrid for 10 years in a variety of roles including power system planning, near time and real time power system operations and long term strategic operational planning. He is a member of the ENTSO-E Ancillary Services working group, the Cigre Ireland National Committee and the Engineers Ireland Electrical and Electronic Division Committee.

Lisa McMullan, DS3 Program, EirGrid



Lisa McMullan works on the DS3 Program at EirGrid, the Transmission System Operator in Ireland. She received a BE in Electrical and Electronic Engineering and an MSc in Energy Management from Dublin Institute of Technology. She has been working in EirGrid for 6 years in a number of different roles including power system access planning and more recently in long term strategic operational planning and real time power system operations. She is a member of Cigre and Engineers Ireland.

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 please email me directly:
 - Sean.Esterly@nrel.gov or 303-384-7436