Microgrid & DER Controller Symposium

2 February 2017   **MIT Samberg Conference Center, Cambridge, MA**

EVENT DETAILS

The Microgrid & DER Controller Symposium will bring together Microgrid & DER controller vendors, microgrid developers, energy infrastructure decision makers, utility engineers, and state and national energy leaders.

The Goal:

- Introduce the latest developments in microgrid & DER controllers and real-time power system simulation technologies
- Demonstrate functionality of existing microgrid & DER controllers on a realistic community microgrid
- Foster connections between microgrid vendors and developers, Massachusetts distribution utilities, and distribution utility engineers responsible for DER deployment and interconnection

MICROGRID & DER CONTROLLER LIVE OPERATION

Throughout the afternoon, several microgrid controller vendors will showcase real-time operation of their controllers on a microgrid hardware-in-the-loop (HIL) demonstration platform. Symposium participants will have an opportunity to view these demonstrations – controlled with actual controllers for diesel generators, a natural gas combined heat-and-power system, energy storage, solar, and protection equipment – operating a multi-megawatt, distribution-scale microgrid.

TARGET AUDIENCE

- Equipment and system vendors
- Electric distribution utilities experiencing DER integration engineering challenges
- Public utility commissioners
- Academic organizations performing power systems research
- Commercialization and policy agencies
- Buyers/users of control equipment

DRAFT AGENDA

Time	Session
8:00–9:00 AM	Coffee, Registration, Networking
9:00–9:05 AM	Welcome
9:15–9:30 AM	Opening Remarks: Update of Federal Microgrid Research, Dan Ton, U.S. Department of Energy
9:30–10:00 AM	Introduction to Microgrid Controller Hardware-in-the-Loop Demonstration Platform, Erik Limpaecher, Assistant Group Leader, MIT Lincoln Laboratory
10:00–10:30 AM	A Simulated Day in the Life of a Microgrid Controller, TBD, MIT Lincoln Laboratory
10:30–11:15 AM	Break and Time to Visit Vendor Tables
11:15 AM–12:00 PM	Utility Owner's Engineer Evaluation of Microgrid Controller Performance Results, Craig Rizzo, Energrid
12:00 PM	Controller HIL Demonstration #1
12:00–1:30 PM	Lunch and Time to Visit Vendor Tables
1:30–2:00 PM	Update on Cybersecurity Treatment in Controller Simulation, Joe Cooley, MIT Lincoln Laboratory
2:00–2:45 PM	Presentation/Demo
2:45–3:30 PM	Break and Time to Visit Vendor Tables
3:30 PM	Controller HIL Demonstration #2
3:30–4:15 PM	Presentation/Demo
4:15–4:30 PM	Development of Collaborative for Advanced Power Controls, Erik Limpaecher, Assistant Group Leader, MIT Lincoln Laboratory
4:30–4:45 PM	Closing Remarks
4:45–6:00 PM	Controller and HIL Vendor Expo, Cash Bar, and Networking

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