Building Integration of Micro-Generation Technologies

A Seminar Providing a Technical Assessment of Micro-Generation Technologies & an International Perspective on Commercialization Strategies



Date: October 27th, 2010

8:30 to 5:00

Location: National Institute of

Standards & Technology,

Gaithersburg, MD

Registration: Visit the **Seminar Website**

Contact: <u>mark.davis@nist.gov</u>







What is Micro-Generation?

Residential or small-commercial applications of the on-site generation of power with heating and/or cooling integrated into a building's energy system, which may include energy storage, advanced control strategies, or demand-side management



In conjunction with Annex 54 (www.iea-annex54.org) of the International Energy Agency's Energy Conservation in Building and Community Systems Program (IEA/ECBCS), the NIST Engineering Laboratory will host a one-day seminar on the integration of micro-generation technologies within buildings. This seminar presents an excellent opportunity for representatives from government, utilities, and the building community to learn more about a technology that is advancing rapidly internationally.

Participants will hear from international researchers on topics that include:

- Current US and International market for micro-generation technologies
- Efforts to promote micro-gen through labeling, subsidies, and tariff reductions
- Examples of successful integrations
- Analysis of energy, environmental, and cost benefits
- Operation within a Smart Grid

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October 27th, 2010 National Institute of Standards and Technology Gaithersburg, MD

Gaither Spurg, MD		
	8:30	Welcoming Remarks <u>Mark Davis</u> , National Institute of Standards and Technology
	8:35	Introduction to the National Institute of Standards and Technology <u>Hunter Fanney</u> , NIST - Building Environment Division Chief
	8:45	Introduction to the IEA/ECBCS Annex 54 Evqueniy Entchev, Natural Resources Canada - CanmetENERGY Research Centre
	9:00	Keynote Presentation Integration of Micro-Generation Technology in the United States <u>Bruce Hedman</u> , ICF International
	9:30	Commercialization Programs and Strategies: An International Perspective U.S. EPA Energy Star Emerging Technology Award for Micro-CHP Peter Banwell, U.S Environmental Protection Agency Commercialization of Micro-Gen in the United Kingdom Nick Kelly, University of Strathclyde – Energy Systems Research Unit Commercialization of Micro-Gen in Germany Peter Tzscheutschler, Technical University of Munich - Institute for Energy Economy & Application Technology
	10:30	Break
	10:45	Micro-Generation: A View from the Grid A Utility's Perspective on Micro-CHP John Rathbun, National Grid Micro-Generation and the Smart Grid TBA, NIST
	11:30	Integration of Micro-Generation: Case Studies Installed Performance of a Micro-CHP System in a New York State Multifamily Building Marc Zuluaqa, Steven Winter Associates, Inc. Small-Commercial Application of Micro-CHP Mike Cocking, Marathon Engine Systems Single-Family Application of Micro-CHP Karl Mayer, ECR International, Inc.
	12:30	Lunch – NIST Cafeteria
	1:30	Technical Assessments of Micro-Generation Technologies Energy, Cost, and Carbon Savings of Micro-CHP Devices Integrated in U.S. Homes Mark Davis, National Institute of Standards and Technology Assessing Micro-Gen in Canada Hajo Ribberink, Natural Resources Canada - CanmetENERGY Research Centre Assessing Micro-Gen in Germany Peter Tzscheutschler, Technical University of Munich - Institute for Energy Economy & Application Technology Assessing Micro-Gen in Italy Maurizio Sasso, University of Sannio
	3:00	Panel Session – Select Presenters
	3:45	Travel to Building 226/Building Research
	4:00	Tour of NIST Micro-CHP Test Facility

Adjourn

5:00