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## Clean Energy Ministerial 2 (CEM2)

**6–7 April 2011, Abu Dhabi, UAE**

### Innovative Technologies and Business Models for Energy Efficiency

**8:30 am–10:15 am****6 April 2011**

#### Overview

Technological change, innovative business models, and government policy are all critical elements of the push for progress towards greater energy efficiency. This session focuses on understanding linkages between activities in these areas and opportunities for synergistic action to accelerate progress.

Rapid advances in electronics and information technology, including smart grid technologies, are enabling a variety of new energy savings opportunities. As new possibilities arise, companies are working to identify creative business models to tap this potential. Governments are also working to promote efficiency through policies ranging from appliance standards to procurement programs and R&D programs. In this context, there are a number of opportunities for public-private cooperation and government policy that enable private-sector driven progress on efficiency.

#### Discussion Topics

- What innovative approaches can the Clean Energy Ministerial (CEM) dialogue foster to advance efficiency (e.g., cooperative work on minimum appliance and equipment standards)?
- What are the most promising business models to move end-users towards devices and systems that beat minimum standards and/or to encourage energy-saving behavioral change? What can CEM governments do to enable private-sector innovation in this sector?
- What are the priorities for R&D on advanced efficiency technologies to propel the next wave of efficiency businesses?

#### Format

The session aims to bring a specific subject area into focus in an interactive setting. There are no speeches but rather a moderated conversation in which all participants are encouraged to share their views. This will be a private discussion held under the Chatham House Rule.

#### Objective

The objective for the discussion is to identify a small number of specific recommendations for action, which will be communicated to the Ministers, as to how their governments can support policy and public-private cooperation that enable rapid energy efficiency gains, particularly through cooperation in the CEM context.

#### Guidelines For All Participants

- Follow the direction of the moderator in terms of session format, speaking order, and time management
- Approach the topic informally and conversationally (no prepared presentations)
- Keep comments concise (maximum of 1–2 minutes per intervention)

#### Session Structure And Flow

**08:30–08:35 Opening Remarks from Moderator**

Moderator welcomes co-chairs

**08:35–08:10 Opportunities for the CEM Dialogue to Foster Innovative Approaches to Efficiency**

Open discussion with lead-off comments by:

- Steven Chu, Secretary, Department of Energy, United States
- Ajay Mathur, Director General, Bureau of Energy Efficiency, Ministry of Power, India

**09:10–09:40 Innovative Business Models for Energy Efficiency**

Open discussion with lead-off comments by:

- Guido Bartels, General Manager, Global Energy & Utilities Industry, IBM; Chairman, Global Smart Grid Federation
- Daniel Yates, CEO and Founder, OPOWER

**09:40–10:10 R&D Priorities on Advanced Technologies for Energy Efficiency**

Open discussion with lead-off comments by:

- Joan MacNaughton, Senior Vice President, Power and Environmental Policies, Alstom Power
- Steven Chu, Secretary, Department of Energy, United States

**10:10–10:15** Moderator summarizes main messages and thanks participants to close session

#### Moderator

**Bernice Lee**, Research Director – Energy, Environment, and Resource Governance, Chatham House

## Co-Chairs

**Guido Bartels**, General Manager, Global Energy & Utilities Industry, IBM; Chairman, Global Smart Grid Federation

**Steven Chu**, Secretary, Department of Energy, United States

**Joan MacNaughton**, Senior Vice President, Power and Environmental Policies, Alstom Power

**Daniel Yates**, CEO and Founder, OPOWER

## Participants

**Edward Abbo**, CEO, C3

**Kateri Callahan**, President, Alliance to Save Energy

**Sheryl Carter**, Co-Director, Energy Program, Natural Resources Defense Council

**Paul Chambers**, Head, International Low Carbon Technology, International Energy and Climate Change Directorate, Department of Energy and Climate Change, United Kingdom

**Amit Chatterjee**, Founder and CEO, Hara

**Bo Diczfalusy**, Director, Directorate of Sustainable Energy Policy and Technology, International Energy Agency

**José María Figueres**, Managing Partner, IJ Partners; President of Costa Rica (1994–1998)

**Livio Gallo**, Networks and Infrastructures Director, Enel

**Enrique Gomez-Junco**, President, Optima Energía

**Mayur Karmarkar**, Director, Sustainable Energy – Asia, International Copper Association Ltd.

**Ja-Kyun Koo**, CEO and President, LS Industrial Systems; Chairman, Korea Smart Grid Association

**Ajay Mathur**, Director General, Bureau of Energy Efficiency, Ministry of Power, India

**Pedro Miranda**, Corporate Vice President, Siemens

**Roland Risser**, Program Manager, Building Technologies Program, Energy Efficiency & Renewable Energy, Department of Energy, United States

**David Sandalow**, Assistant Secretary, Office of Policy & International Affairs, Department of Energy, United States

**David Scott**, Executive Director of Economic and Energy Affairs, Executive Affairs Authority

**Rahul Tongia**, Senior Systems Scientist, Carnegie Mellon University; Principal Research Scientist, Center for Study of Science, Technology, and Policy

**Gerard Wolf**, Senior Executive Vice President, International Development, EDF

**Tracy Wolstencroft**, Advisory Director, Goldman Sachs

**Xie Ji**, Deputy Director General, Department of Resource Conservation and Environmental Protection, National Development and Reform Commission, China

**Nejib Zaafrani**, Secretary General and CEO, Dubai Supreme Council of Energy

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