

AGENDA

GLOBAL WORKSHOP ON LOW CARBON POWER SECTOR DEVELOPMENT

**December 10 – 17, 2011
Washington, DC**

Managed by
UNITED STATES ENERGY ASSOCIATION (USEA)

Funded by
THE U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)

Overview

The Global Workshop on Planning for a Low Carbon Power Sector will focus on how utilities are integrating low carbon generation resources into their systems given financial constraints. This activity will be a four and a half day workshop including site visits. Participants will gain understanding of the integrated resource planning process used by electric utilities to plan supply and demand resources to meet future capacity needs for their customers. In particular, they will look at the following low carbon generation options: renewable energy, energy efficiency, energy conservation, demand side management, fuel switching and carbon capture and storage from fossil resources. This workshop will assist participants in formulating plans to address the growing demand for energy services while meeting the ever stringent financial, environmental and reliability requirements.

This program is targeted toward energy policy makers, utilities and regulators. They will meet with their U.S. peers and experts from utilities and other energy organizations to learn policies and techniques for the planning and implementation of low carbon generation. The site visits will allow the participants to observe the methodologies and technologies discussed during the workshop.

PARTICIPANTS

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Participating Organizations

ACEEE
American Wind Energy Association
Baltimore Office of Sustainability
Constellation Energy
Edison Electric Institute (EEI)
Embassy of Singapore
ICF
Inter-American Development Bank
McKinsey & Company
National Association of State Energy Officials
(NASEO)
New England ISO
Pepco Holdings Inc.
Solar Electric Power Association
Solar Turbines Incorporated

Southern Company
The Brattle Group
U.S. Agency for International Development
U.S. Department of Defense
U.S. Department of Energy
U.S. Environmental Protection Agency

Saturday, December 10, 2011

Delegates arrive from their respective countries and check into the hotel.

Hotel: **Washington Plaza**
Ten Thomas Circle, NW
Washington, DC 20005
Phone: 1-202-842-1300
Fax: 1-202-371-9621

Sunday, December 11, 2011

Executive time

Monday, December 12, 2011

- 8:15 am **Pick up delegates at hotel and escort them to USEA**
Location: USEA Conference Room C, 1300 Pennsylvania Avenue, NW, Suite 550,
 Washington, DC
- 8:30 am **WELCOME AND OPENING REMARKS AND PARTICIPANT INTRODUCTIONS**
John Hammond, Program Manager, U.S. Energy Association
- 8:40 am **WELCOME REMARKS BY UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)**
Kristen Madler, Clean Energy Coordinator, USAID
- 8:50 am **ENHANCING CAPACITY FOR LOW EMISSIONS DEVELOPMENT STRATEGIES (EC-LEDS) INITIATIVE**
Dr. Katherine Batten, Global Climate Change Coordinator, USAID
- 9:10 am **KEYNOTE PRESENTATION: MOVING TOWARDS A LOW CARBON POWER SECTOR: OPTIONS AND CHALLENGES**
Dr. Lola Infante, Director, Generation Fuels & Market Analysis, Edison Electric Institute
Topics:
 - What utilities are doing to promote low carbon power
 - Approaches
 - Problems encountered
- 10:00 am **Break**
- 10:15 am **KEYNOTE: KEY SOURCES OF UNCERTAINTY IN GLOBAL POWER MARKETS AND THE IMPLICATIONS ON LOW CARBON POWER GENERATION**
SPEAKER: MATT PARSONS, Associate Principal, McKinsey
Topics:
 - Sources of uncertainty in global power markets
 - Baseline scenario to 2030

Monday, December 12 (continued)

- Potential deviations from the baseline
- Implications on low carbon power generation

11:30 am

STATE RENEWABLE ENERGY INCENTIVES: U.S. EXPERIENCE**Speaker:** *David Terry, Executive Director, National Association of State Energy Officials***Moderator:** *Tricia Williams, Senior Program Coordinator, USEA***Topics:**

- Existing and proposed State policies and incentives to promote low carbon generation
- Barriers to implementation
- Case studies – specific examples

12:30 pm

Lunch & Discussion

1:30 pm

INTEGRATED RESOURCE PLANNING (IRP)**SPEAKERS:** *Bill Prindle, Vice President, ICF International**Marc Chupka, Principal, The Brattle Group***Moderator:** *Marjorie Jean-Pierre, Deputy Program Manager, USEA***Topics:**

- Generation planning
- Demand side management

2:45 pm

Break

3:00 pm

CLEAN CITIES**SPEAKERS:** *Daryl Sng, Counsellor (Political), Singapore Embassy**Alice Kennedy, Sustainability Coordinator, Baltimore Office of Sustainability***Moderator:** *Lauren Dickerson, Administrative Program Coordinator, USEA***Topics:**

- Resource conservation
- Transportation
- Pollution prevention
- Greening
- Green economy
- Urban planning

4:00 pm

Discussion of Country Action Plan Exercise

4:30 pm

Adjourn

6:30 pm

Dinner (TBD)

Tuesday, December 13, 2011

- 8:00 am **Pick up delegates at hotel and escort them to USEA**
Location: USEA Conference Room C, 1300 Pennsylvania Avenue, NW, Suite 550, Washington, DC
- 8:15 am **ACTION PLAN DEVELOPMENT TIME – 1ST MEETING**
- 9:00 am **IMPROVED EFFICIENCY OF FOSSIL FUEL GENERATION, ADVANCED CLEAN COAL TECHNOLOGY AND CARBON**
SPEAKERS: **Carlton Blue**, *Program Manager, Southern Company*
Bob Wright, *Senior Advisor, USDOE*
Moderator: **Marjorie Jean-Pierre**, *Deputy Program Manager, USEA*
Topics:
- Overview of U.S. Department of Energy programs to improve the efficiency of fossil fuel generation
 - Fossil fuel power plants and advanced clean coal technologies
 - CCS Storage sites - reservoirs, coal beds, deep saline formations
 - Current CCS projects
- 10:30 am **Break**
- 10:45 am **SMART GRID**
Presenters: **Carlton Blue**, *Program Manager, Southern Company*
Moderator: **Marjorie Jean-Pierre**, *Deputy Program Manager, USEA*
Topics:
- What are Smart Grid technologies and approaches?
 - Progress toward Smart Grid – U.S. and International experience
 - Planned Smart Grid projects
 - Financing and incentives for Smart Grid
 - Regulatory process
 - Consumer awareness and acceptance
- 12:30 pm **Lunch**
- 1:15 pm **SOLAR AND WIND TECHNOLOGIES**
SPEAKERS: **Maggie Lemmerman**, *Manager of Federal Legislative Affairs, American Wind Energy Association*
Chris Tindal, *Director for Operational Energy, Office of the Deputy Assistant Secretary of Defense for Energy, U.S. Department of Defense*
Moderator: **Tricia Williams**, *Senior Program Coordinator, USEA*
Topics:
- Experience with wind project development
 - Review of specific projects
 - Barriers and solutions – siting, financing, interconnection, etc.
 - Energy storage
 - Review of DOD renewable energy programs (wind, solar, biomass, etc.)

Tuesday, December 13 (continued)

2:30 pm **Depart for site visit**

3:30 pm **SITE VISIT: RAPPAHANNOCK REGIONAL SOLID WASTE COUNTY LANDFILL**

Location: Rappahannock Regional Solid Waste Management Board, 489 Eskimo Road, Stafford
The Rappahannock County Regional Landfill, located on Eskimo Hill Road in Stafford, began producing renewable energy from the landfill gas on Sept. 17, 2008. Usually, landfill gas, which is about 50 percent methane, was extracted through wells and pipes buried in the landfill and combusted in a flare. However, the gas is now diverted from the flare to the landfill gas plant, which is equipped with two specialized GE Jenbacher engines designed to burn landfill gas. The facility can generate 2.14 megawatts of renewable energy — enough to power more than 1,300 homes a day — by using the landfill gas generated by decomposing waste at the landfill.

5:00 pm **Adjourn**

Wednesday, December 14, 2011

8:00 am **Pick up delegates at hotel and escort them to USEA**

Location: USEA Conference Room C, 1300 Pennsylvania Avenue, NW, Suite 550, Washington, DC

8:15am **ACTION PLAN DEVELOPMENT TIME – 2ND MEETING**

9:00 am **PUBLIC BRIEFING: LOW CARBON PROGRAMS IN PARTICIPATING DEVELOPING COUNTRIES**

Individual country presentation of ten to fifteen minutes on their country's generation capacity plans and low carbon generation options.

Moderator: Marjorie Jean-Pierre, Deputy Program Manager, USEA

Topics:

- Snapshot of the country's energy sector
- Renewable energy programs
- Energy efficiency and conservation
- Natural gas and clean coal
- Nuclear
- Incentives and policies

12:15 pm **Lunch**

1:00 pm **FINANCING LOW CARBON PROJECTS**

SPEAKERS: **Leandro Alves**, Head of the Energy Division, Infrastructure and Environment Department, Inter-American Development Bank

Odin Knudsen, Principal, Real Options International

Moderator: Lauren Dickerson, Administrative Program Coordinator, USEA

Topics:

- Barriers to investments
- Financial approaches
- Market transformation

Wednesday, December 14 (continued)

- Subsidy/grant mechanisms
- Specific plant examples

3:30 pm **Break**

3:45 pm **COGENERATION AND COMBINED HEAT AND POWER**

SPEAKERS: *Neeharika Naik-Dhungel, US EPA Combined Heat and Power Partnership*
Joe Allen, Director, Government Affairs, Solar Turbines

Moderator: *Lauren Dickerson, Administrative Program Coordinator, USEA*

Topics:

- Barriers to deployment
- Connecting to the grid
- Tariff mechanisms
- Specific plant examples

5:00 pm **Adjourn**

6:30 pm **Dinner Sponsored by Solar Turbines (TBD)**

Thursday, December 15, 2011

8:15 am **Pick up delegates at hotel and escort them to USEA**

Location: USEA Conference Room C, 1300 Pennsylvania Avenue, NW, Suite 550,
Washington, DC

8:30 am **ACTION PLAN DEVELOPMENT TIME – 3RD MEETING**

9:15 am **UTILITY ENERGY EFFICIENCY PROGRAMS AND TECHNOLOGIES**

SPEAKER: *Sara Hayes, Senior Policy and Utilities Associate, ACEEE*

Moderator: *Tricia Williams, Senior Program Coordinator, USEA*

Topics:

- Review of state energy efficiency programs
- Incentives
- Role of the regulator
- Public acceptance
- Monitoring and evaluation

10:15 am **Break**

Thursday, December 15 (continued)

- 10:30 am **INTEGRATING LARGE SCALE VARIABLE RENEWABLE RESOURCES IN NEW ENGLAND**
SPEAKERS: PETER WONG, *Manager of Resource Adequacy, ISO New England*
Moderator: Tricia Williams, *Senior Program Coordinator, USEA*
Topics:
- Intermittency and dispatch
 - Backup generation
 - Interconnection standards
 - Grid stability and protection requirements
 - Equipment requirements
- 11:30 am **OVERVIEW OF DEMAND RESOURCES IN NEW ENGLAND**
SPEAKERS: PETER WONG, *Manager of Resource Adequacy, ISO New England*
Moderator: Marjorie Jean-Pierre, *Deputy Program Manager, USEA*
Topics:
- Overview of DSM and demand response
 - Benefits of DSM
 - Financial and regulatory incentive
 - Monitoring and evaluation
 - Case studies of utility DSM and demand response programs
- 1:00 pm **Lunch**
- 2:00 pm Depart for site visit
- 2:30 pm **Site Visit: TBD**
- 5:00 pm **Adjourn**

Friday, December 16, 2011

- 8:15 am **Pick up delegates at hotel and escort them to USEA**
Location: USEA Conference Room C, 1300 Pennsylvania Avenue, NW, Suite 550,
Washington, DC
- 8:30 am **FINALIZE ACTION PLAN & PRESENTATIONS**
- 9:30 am **PRESENT ACTION PLANS**
South Africa
Bangladesh
El Salvador
Mexico
Tanzania

12:30 pm ***Lunch***

Delegates return to their respective countries

Saturday, December 17, 2011

Delegates return to their respective countries