

AGENDA FOR THE

**TRANSITIONING THE
SOUTH ASIAN ENERGY MARKET:
ADVANCING LOW CARBON
GROWTH THROUGH REGIONAL
COOPERATION AND CROSS-
BORDER ENERGY TRADE**

**July 11 – 13, 2011
Male, Maldives**

Coordinated by
UNITED STATES ENERGY ASSOCIATION (USEA)

Co-Hosted by
State Electric Company Ltd. (STELCO)

Funded by
**U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)
SOUTH ASIA REGIONAL INITIATIVE FOR ENERGY (SARI/ENERGY)**

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the United States Agency for International Development (USAID).*



USAID
FROM THE AMERICAN PEOPLE



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United States Energy Association

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U.S. Energy Association

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Program Overview

This three-day workshop will include participants from all SARI/E countries. The workshop will focus on renewable energy, energy efficiency, energy conservation, demand side management, and cleaner power, as well as their role in the cross border trade of electricity. The 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. Discussions will focus on reduction of carbon dioxide and other carbon greenhouse gases (GHG) and mechanisms for the electricity sector to assist in driving climate change. The workshop will discuss regulatory, policy and market opportunities for cross-border trade in clean energy through mechanisms such as renewable energy certificates to meet mandatory renewable portfolio standards. Given the Maldives recent focus on renewable energy and carbon neutrality, supported by the country's publicized goal to reach carbon neutrality by 2019, the Maldives is considered an ideal venue for this workshop. Target South Asian participants will be policymakers, regulators, and utility managers.

Objectives:

- To further the understanding of cross border trade as a mechanism to address climate change and lower GHG targets
- To promote regional cooperation and improved knowledge in renewable, energy efficient and carbon neutral energy technologies and practices
- Further utility executives' and policymakers' knowledge of modern technologies, financing strategies, policies, and successful project development methodologies, to foster lower carbon emissions in their countries and create a more attractive investment climate for the renewable energy sector
- To appreciate the application of clean energy trading mechanisms to off-set carbon emissions across the region
- To gain specific knowledge in the following areas:
 - Market trends & barriers
 - Project development & financing
 - Technologies, in the areas of wind, solar, biomass & biofuels, hydro, geothermal, ocean/tidal/wave, and waste-to-energy, as well as a host of energy efficiency/conservation methodologies
 - Renewable portfolio standards
 - Green power programs
 - Financing mechanisms
 - Incentive programs
 - Renewable energy credits & certificates
 - Interconnection & integration issues
 - International opportunities & challenges

Sunday, July 10

Delegates are met at the Male airport by a representative of the hotel and transported via speed boat to the hotel.

Hotel: Traders Hotel
 Ameer Ahmed Magu
 Male', Henveyru 20077, Maldives
 Tel: (960) 3300 888 Fax: (960) 3300 790 www.tradershotels.com

6:00 pm SARIE delegates meet in hotel lobby for per diem distribution

Monday, July 11

8:30 am Delegates meet STELCO representative in hotel lobby for transport to STELCO offices

Registration – (5th Floor Auditorium)

OPENING SESSION

9:00 am **Welcome by U.S. Energy Association** - Ms. Sarah Blanford, Senior Program Coordinator, U.S. Energy Association

9:10 am **Welcome by State Electric Company Ltd (STELCO) –**
Mr. Ali Azwar, Chief Operating Officer, State Electric Company Ltd, STELCO

Observer: Mr. Hassan Zahir, Chairman, STELCO

SESSION A – KEYNOTE

9:20 am **Keynote presentation from Maldives by the Chief Guest –** Honourable Mohamed Aslam, Minister of housing & Environment.

09:45 am **Group Photo**
Coffee/tea break

SESSION B – CROSS BORDER TRADE & ENERGY MARKETS IN SOUTH ASIA

10:15 am **Status of Cross Border Trade & Energy Markets in South Asia**

Moderator: Mr. Rajesh K Mediratta, Senior Vice President, Business Development, Indian Energy Exchange Limited

Speakers to each provide a brief 10-minute presentation on the status of the respective cross border exchange.

- **Bhutan – India exchange**
Speaker: Mr. Tashi Dorjee, Chief Engineer/Head of the Planning & Coordination Division, Department of Energy, Ministry of Economic Affairs, Bhutan
- **Sri Lanka – India exchange**
Speaker: Ms. Kamani Jayasekera, Chief Engineer (Transmission Planning), Ceylon Electricity Board
- **Bangladesh – India exchange**
Speaker: Mr. Rajesh K Mediratta, Senior Vice President, Business Development, Indian Energy Exchange Limited
- **Nepal – India exchange**
Speaker: Mr. Tirtha Man Shakya, Director/Project Coordinator & Project Coordinator for Energy Access and Efficiency Improvement Project, Nepal Electricity Authority

➤ **Central Asia exchange (CASA 1000)**

Speaker: Eng. Nangialai Miakhail, Deputy Head of Planning, Da Afghanistan Breshna Sherkat (DABS), Afghanistan

Q & A

12:00 pm – 01:00 pm Lunch break

SESSION C – POLICIES, INCENTIVES & REGULATION FOR THE PROMOTION OF LOW CARBON POWER & CROSS BORDER TRADE

1:00 pm PROMOTION OF RENEWABLE ENERGY – HOW TO SUPPORT A LOW CARBON POWER MARKET

Presenter: Dr. S.P. Gon Chaudhuri, Adviser, Government of West Bengal

Topics:

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

Q & A

1:45 pm MEETING PORTFOLIO OBLIGATIONS THROUGH TRADING RENEWABLE ENERGY & RENEWABLE ENERGY CERTIFICATES

Presenter: Mr. Rajesh K Mediratta, Senior Vice President, Business Development, Indian Energy Exchange Limited

Topics:

- Case studies – specific examples
- The Bhutan-India scenario - importing renewable power from Bhutan to meet renewable portfolio obligations of Indian states using India Energy Exchange as the trading platform
- Renewable energy certificate program
- Applications for other South Asian countries

Q & A

SESSION D – SOUTH ASIAN LOW CARBON GROWTH HIGHLIGHTS

An overview of current energy consumption, energy efficiency measures, and available renewable resources in each respective country.

Moderator: Mr. Abdulla Mushrif, Senior Engineer, STELCO

2:30 pm Clean Energy Development in Maldives

Speaker: Mr. Ajwad Musthafa, Deputy Director, Maldives Energy Authority, Ministry of Housing & Environment

Q&A

3:00 pm Clean Energy Development in Sri Lanka

Speakers: Mr. Upali Daranagama, Additional Secretary (Planning & Development), Ministry of Power & Energy, Sri Lanka

Q&A

3:30 pm – 4:00 pm Coffee/tea break

4:00 pm Clean Energy Development in Pakistan

Speaker: Mrs. Rabia Shoaib Ahmad, Director Business Development, Clean Power Pvt. Ltd.

Q&A

4:30 pm Clean Energy Development in Nepal

Speaker: Mr. Laxman Neupane, Senior Research Fellow/Project Coordinator, Centre for Policy Studies and Rural Development & Nepal Biogas Promotion Association

Q&A

5:00 pm Adjourn & collect in front of STELCO offices for return transport to hotel

Evening No planned activities/free time

Tuesday, July 12

8:30 am Delegates meet in hotel lobby for transport to STELCO offices

SESSION D – SOUTH ASIAN LOW CARBON GROWTH HIGHLIGHTS (continued)

Each presenter to give an overview of current energy consumption, energy efficiency measures, and available renewable resources in their respective country.

Moderator: Mr. Ahmed Ibrahim, Assistant Engineer, STELCO

9:00 am **Clean Energy Development in India**
Speaker: Dr. Koshy Cherail, President, Alliance for Energy Efficient Economy, India

Q&A

9:30 am **Clean Energy Development in Bhutan**
Speaker: Mr. Tashi Dorjee, Chief Engineer/Head of the Planning & Coordination Division, Department of Energy, Ministry of Economic Affairs, Bhutan

Q&A

10:00 am **Clean Energy Development in Bangladesh**
Speakers: Mr. Mollah Amzad Hossain, Editor, Energy & Power magazine, Bangladesh

Q&A

10:30 am **Clean Energy Development in Afghanistan**
Speaker: Eng. Nangialai Miakhail, Deputy Head of Planning, Da Afghanistan Breshna Sherkat (DABS), Afghanistan

Q&A

11:00 – 11:30 am **Coffee/tea break**

SESSION E – ENERGY EFFICIENCY & DSM STRATEGIES & POLICIES

11:30 am ENERGY EFFICIENCY PROGRAMS AND TECHNOLOGIES CASE STUDIES

Moderator: Ms. Sarah Blanford, Senior Program Coordinator for SARI/Energy, U.S. Energy Association

Presenters:

- **Mr. Tirtha Man Shakya, General Manager, Transmission and System Operations & Project Coordinator for Energy Access and Efficiency Improvement Project, Nepal Electricity Authority**
- **Dr. Koshy Cherail, President, Alliance for an Energy Efficient Economy, India**
- **Mr. Upali Daranagama, Additional Secretary (Planning and Development), Ministry of Power and Energy, Sri Lanka**

Topics:

- Energy efficiency programs
- Key technologies
- Monitoring and evaluation
- Financial and regulatory incentives
- Consumer awareness and acceptance

Q & A

12:45 – 1:00 pm	Overview of Trading Electricity in India Speaker: Mr. Rajesh K Mediratta, Senior Vice President, Business Development, Indian Energy Exchange Limited
1:00 pm	Adjourn & Break for lunch at STELCO offices
1:45 pm	Depart STELCO and return to hotel
2:00 – 3:00 pm	No planned activities/free time
3:00 pm	Meet in hotel lobby for short walk together to jetty
3:15 pm	Meet at jetty for departure to Hulhumale'
3:45 – 6:15 pm	Tour of Hulhumale & Dinner hosted by STELCO
6:30 pm	Return to Male

Wednesday, July 13

8:30 am Delegates meet in hotel lobby for transport to STELCO offices

SESSION E – ENERGY EFFICIENCY & DSM STRATEGIES & POLICIES (continued)

9:00 am ROUNDTABLE DISCUSSION: UTILITY EXPERIENCE OUTAGE MANAGEMENT & DEMAND SIDE MANAGEMENT

Moderator: Mr. Mollah Amzad Hossain, Editor, Energy & Power magazine, Bangladesh

Presenters:

- Mr. Arunabha Basu, Vice President, New Delhi Power Ltd. (NDPL)
- Mr. Tirtha Man Shakya, General Manager, Transmission and System Operations & Project Coordinator for Energy Access and Efficiency Improvement Project, Nepal Electricity Authority
- Eng. Nangialai Miakhail, Deputy Head of Planning, Da Afghanistan Breshna Sherkat (DABS), Afghanistan

Topics:

- Case studies of utility DSM and demand response programs – How the utility and country manages their forced outages
- Overview of DSM and demand response
- Benefits of DSM
- Financial and regulatory incentives
- Monitoring and evaluation

Q & A

10:30 am – 10:45 am Coffee/tea break

SESSION F – RENEWABLE ENERGY TECHNOLOGIES & INTEGRATION – RENEWABLE ENERGY IMPLICATIONS FOR ENERGY MARKETS

Moderator: Dr. S.P. Gon Chaudhuri, Adviser, Government of West Bengal

10:45 am SOLAR AND WIND

Presenters:

- **Wind:** Mr. Upali Daranagama, Additional Secretary (Planning & Development), Ministry of Power & Energy, Sri Lanka
- **Solar & Wind Applications for Desalination:** Mr. Lars Willi, Director, Trunz Water Systems AG

Topics:

- Experience with wind & solar project development
- Review of specific projects
- Barriers and solutions – siting, financing, interconnection, etc.

Q & A

12:15– 1:00 pm Lunch break

1:00 pm BIOFUELS AND WASTE-TO-ENERGY

Presenters:

- **Biofuels:** Mrs. Rabia Shoaib Ahmad, Director Business Development, Clean Power Pvt. Ltd.
- **Biogas:** Mr. Laxman Neupane, Senior Research Fellow/Project Coordinator, Centre for Policy Studies and Rural Development & Nepal Biogas Promotion Association
- **Waste-to-Energy:** Mr. Asef Basheer Farouque, Chief Executive Officer, Waste Busters, Pakistan

Topics:

- Review of specific projects
- Barriers and solutions – siting, financing, interconnection, etc.

Q & A

2:15 pm Thank you by U.S. Energy Association - Ms. Sarah Blanford, Senior Program Coordinator, U.S. Energy Association

2:20 pm Official Closing by State Electric Company Ltd (STELCO)-Mr. Abdulla Mushrif, Senior Engineer

2:30 pm Coffee/tea break

3:00 pm Depart STELCO and return to hotel

Thursday, July 14

Delegates return to their respective countries