

AGENDA

SOUTH ASIA & CENTRAL ASIA EXECUTIVE WORKSHOP ON BEST PRACTICES IN ELECTRICITY TRANSMISSION & DISTRIBUTION

21 – 23 March 2011

New Delhi, India

Coordinated by:

UNITED STATES ENERGY ASSOCIATION (USEA)

Funded by:

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)



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FROM THE AMERICAN PEOPLE

USEA
United States Energy Association

PROGRAM OVERVIEW

The United States Energy Association (USEA) is conducting a three-day South Asia & Central Asia Executive Workshop on Best Practices in Electricity Transmission & Distribution in New Delhi, India from March 21 - 23, 2011. The objective of the workshop is to present best practices in electricity transmission and distribution, and to identify possible improvements to the efficiency and reliability of these systems for South Asian and Central Asian countries. Modernizing electricity transmission and distribution systems is a reliable method for addressing energy supply shortfalls, system reliability weaknesses, and climate change.

Workshop participants are exposed to best practices for the operation of modern electricity systems, effective distribution and transmission policies, and emerging technologies for electricity systems, including Smart Grid. In each workshop session, the delegates examine the effectiveness of policies and technologies in each country's electricity transmission and distribution systems. Day one of the workshop examines best practices in electricity transmission. Day two focuses on low-carbon development strategies in the morning, and then involves a site visit to a local utility's SCADA center, substation, and customer service center. The third day of the workshop will focus on electricity distribution. U.S. electric utility experts participate each day to provide U.S. perspectives and lessons learned.

PROGRAM PARTICIPANTS

Afghanistan

DABS-Afghanistan

Mr. Abdul Razique Samadi, CEO
Mr. Gulla Jan Hairan, COO
Mr. Baktash Nasiri, Acting PMO Director
Mr. Wali Oria, Deputy Head Planning
Mr. Nangyali Miakhail, Planning Engineer

Bangladesh

Power Grid Company of Bangladesh

Mr. Bazlul Munir, Manager
Mr. Premendra Kumar Roy, Director
Mr. Pranab Kumar Roy, Manager (MIS)

Bhutan

Bhutan Power Corporation

Mr. Jai Bev Sharma
Mr. Gem Tshering, Director – Transmission
Mr. Thinlay Gyeltshen, Offgt. GM, Transmission
Mr. Sonam Gyeltshen, Regional Manager
Mr. Ghana Shyam Tamang, Engineer

India

Mr. Sanjeev Mehra, EVP, PTC India Limited
Mr. Varun Sethi, Manager, PTC India Limited
Mr. Bubbar Singh, Assistant Manager, NDPL
Mr. Abhishek Mukhija, Manager, NDPL

Maldives

State Electric Company Limited

Mr. Ibrahim Nashid, Engineer
Mr. Ahmed Marsoom, Engineer

Nepal

Nepal Electricity Authority

Dr. Jivendra Jha, Managing Director
Mr. R.C Pandey, General Manager
Mr. Rajan Dhakal, Asst. Manager
Mr. Shyam Shrestha, Manager - Grid Operation
Mr. Shekhar Datta, Janakpur Regional Office
Mr. Ramchandra Gupta, Butwal Regional Office

Sri Lanka

Mrs. S.P. Pathirana, Deputy GM, CEB
Mrs. D. Thilakasena, Deputy GM, CEB
Mr. W.A.J.K. Amarasinghe, Deputy GM, CEB
Mr. Rasanga Fernando, Branch Engineer, LECO

Agenda

South Asia & Central Asia Executive Workshop on Best Practices in Electricity Transmission & Distribution

Kazakhstan

Mr. Kanysh Moldabaev, Head of National Power
Grid Development, KEGOC

Mr. Alexander Reizlin, Director of Distribution
Unit, Akmola Regional Electric Company

Kyrgyzstan

Mr. Bapa Zhanybekov, Chief of Commercial
Dispatch Center, NESK

Mr. Askar Kolchaev, Head of Commercial
Balance Department, Severelectro

Tajikistan

Barki Tajik

Mr. Fayzullo Avezov, Director of Kairakum HPS

Mr. Musoqul Azizov, Director of Penjiken REC

Uzbekistan

Uzbekenergo

Mr. Muzaffar Hakimov, Director

Central Asia

Mr. Khamidilla Shamsiev, Director, CDC Energia

United States

Mr. Jeremy Gustafson, Director, Clean Energy &
Environment Office, USAID/India

Mr. Amol Bhutad, USAID/India

Ms. Mercy Thomas, USAID/India

Mr. John Hammond, Program Manager, USEA

Mr. Matthew Gebert, Senior Program
Coordinator, USEA

Mr. Michael Hajny, SARI Chief of Party,
Tetra Tech

PROGRAM OBJECTIVES

Exchange information on best practices in the following areas:

- Planning and design of electricity transmission and distribution systems to increase the efficiency and reliability of electricity delivery
- Enhancing cross-border transmission
- Policy and financial strategies for implementation of smart grid technologies
- The use of grid technologies to support energy conservation and the integration of renewable energy
- Low-carbon development strategies

ANTICIPATED OUTCOMES

- Policy recommendations and facilitation of transmission and distribution projects
- Policy and financial strategies for increased efficiency in transmission and distribution
- Policy and financial strategies for smart grid technologies to support energy conservation and renewable energy

AGENDA

Saturday, March 19 – Sunday, March 20, 2011 - ARRIVAL

Delegates arrive into New Delhi (Airport Code: DEL). After passing through immigration and customs, delegates should look for a uniformed Sheraton Hotel driver with their name on a sign for transfer to the hotel.

Lodging & Meeting Venue:

Sheraton New Delhi

District Centre, Saket, New Delhi, 110017

Phone: (91) (11) 4266 1122

<http://www.starwoodhotels.com/sheraton/property/overview/index.html?propertyID=1996>

Monday, March 21, 2011 - TRANSMISSION

WORKSHOP TO BE HELD IN BALLROOMS II & III

8:00 am

Welcome, Introductions, Program Overview, and Objectives

Jeremy Gustafson, Director, Clean Energy & Environment Office, USAID

John Hammond, Program Manager, U.S. Energy Association

MORNING SESSION MODERATOR: JOHN HAMMOND, USEA

8:30 – 9:15 am

U.S. Cross-Border Electricity Transmission Interconnections

Antony Rodrigues, P.E., Retired – Bonneville Power Administration

- Bonneville Power Administration Perspective
- U.S.-Canada & Central American Electrical Interconnection System
- Water Rights Issues
- Financing & Governance of International Agreements

9:15 – 9:30 am

Roundtable Discussion

9:30 – 10:15 am

Central Asian Cross-Border Electricity Transmission Interconnections

Khamidilla Shamsiev, Director, CDC Energia

- Background of Central Asian Interconnections
- Financing & Governance of International Agreements
- Operational Responsibilities
- System Protection
- Water Rights

10:15 – 10:30 am

Discussion & Coffee Break

Agenda

South Asia & Central Asia Executive Workshop on Best Practices in Electricity Transmission & Distribution

10:30 – 11:30 am **India-Nepal-Bhutan Cross-Border Electricity Transmission Interconnections, Transactions, and Challenges**

Representative from PTC India Limited (Power Trading Corporation of India)

Gem Tshering, Director of Transmission, Bhutan Power Corporation

R.C. Pandey, General Manager, Nepal Electricity Authority

- Background of India-Nepal-Bhutan Interconnections
- Financing & Governance of International Agreements
- Operational Responsibilities
- System Protection
- Water Rights

11:30 – 12:00 pm **Roundtable Discussion & Summary**

12:00 – 1:00 pm **Lunch**

AFTERNOON SESSION MODERATOR: ANTONY RODRIGUES, BPA (RET.)

1:00 – 1:50 pm **Best Practices in U.S. Electricity Transmission for System Reliability**

Antony Rodrigues, P.E., Retired – Bonneville Power Administration

- Reliability Requirements
- Emergency Response Requirements
- Technical Hardware & Software Utilized
- Outage Planning / Redundancies
- System Monitoring & Upgrades
- Smart Grid Role in Transmission

1:50 – 2:00 pm **Roundtable Discussion**

2:00 – 2:45 pm **Best Practices for Transmission System Reliability in Afghanistan**

Gulla Jan Hairan, Chief Operating Officer, DABS

- Reliability Requirements
- Emergency Response Requirements
- Technical Hardware & Software Utilized
- Outage Planning / Redundancies
- System Monitoring & Upgrades
- Smart Grid Role in Transmission

2:45 – 3:00 pm **Coffee Break**

Agenda

South Asia & Central Asia Executive Workshop on Best Practices in Electricity Transmission & Distribution

3:00 – 3:45 pm

Best Practices for Transmission System Reliability in Kazakhstan

Kanysh Moldabayev, Head of Development Department, Kazakhstan Electricity Grid Operating Company

- Reliability Requirements
- Emergency Response Requirements
- Technical Hardware & Software Utilized
- Outage Planning / Redundancies
- System Monitoring & Upgrades
- Smart Grid Role in Transmission
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3:45 –4:30 pm

Best Practices for Transmission System Reliability in Sri Lanka

Representative from Ceylon Electricity Board

- Reliability Requirements
- Emergency Response Requirements
- Technical Hardware & Software Utilized
- Outage Planning / Redundancies
- System Monitoring & Upgrades
- Smart Grid Role in Transmission

4:30 – 5:00 pm

Roundtable Discussion & Summary

6:30 pm

Welcome Reception & Dinner (Dynasty Ballroom)

Tuesday, March 22, 2011 – LOW CARBON POWER DEVELOPMENT

MORNING SESSION MODERATOR: JOHN HAMMOND, USEA

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|----------------------------|--|
| 9:00 – 10:00 am | U.S. Electric Utility Low-Carbon Power Sector Development Strategies
<i>Jaspal Deol, Manager, New Services, Sacramento Municipal Utility District (SMUD)</i> <ul style="list-style-type: none">• Planning for a Low-Carbon Power Sector• Technology Options : Renewables, Fuel Switching, Energy Efficiency, Nuclear, Demand Side Management, Hydropower• Barriers to Implementation |
| 10:00 – 10:15 am | Roundtable Discussion |
| 10:15 – 10:30 am | Coffee/Tea Break |
| 10:30 – 11:30 am | U.S. Electric Utility Low-Carbon Power Sector Development Strategies
<i>Antony Rodrigues, P.E., Retired – Bonneville Power Administration (BPA)</i> <ul style="list-style-type: none">• Planning for a Low-Carbon Power Sector• Technology Options : Renewables, Fuel Switching, Energy Efficiency, Nuclear, Demand Side Management, Hydropower• Barriers to Implementation |
| 11:30 am – 12:00 pm | Roundtable Discussion & Summary |
| 12:00 – 1:00 pm | Lunch |
| 1:15 pm | Departure for Site Visit |
| 2:00 – 5:00 pm | Site Visit to North Delhi Power Limited SCADA Center, Substation, and Customer Service Center |

Wednesday, March 23, 2011 - DISTRIBUTION

MORNING SESSION MODERATOR: JASPAL DEOL, SMUD

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|------------------------|---|
| 9:00 – 10:00 am | Overview of Best Practices in Loss Reduction and System Reform
<i>Jaspal Deol, Manager, New Services, Sacramento Municipal Utility District</i> <ul style="list-style-type: none">• Best practices for loss reduction• Best practices in system planning and design• Best practices in system operation and maintenance• Enhancing work force capabilities |
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Agenda

South Asia & Central Asia Executive Workshop on Best Practices in Electricity Transmission & Distribution

10:00 – 10:15 am	Roundtable Discussion
10:15 am – 12:30 pm	Panel on Loss Reduction and Related Distribution Reforms <i>B.N. Rasanga Fernando, Branch Engineer, Lanka Electricity Company</i> <i>Askar Kolchaev, Head of Commercial Balance Department, Severelectro, Kyrgyzstan</i> <i>Representative from Barki Tajik, Tajikistan</i>
12:30 – 2:00 pm	Lunch
	AFTERNOON SESSION MODERATOR: MATTHEW GEBERT, USEA
2:00 – 3:00 pm	Smart Grid Best Practices in U.S. Electricity Distribution <i>Jaspal Deol, Manager, New Services, Sacramento Municipal Utility District</i> <ul style="list-style-type: none">• Enabling Informed Participation by Customers• Accommodating All Generation & Storage Options• Enabling New Products, Services, & Markets• Providing the Power Quality for Range of Needs• Optimizing Asset Utilization & Operating Efficiently
3:00 – 3:15 pm	Roundtable Discussion
3:15 – 4:00 pm	Best Practices in Electricity Distribution in India <i>Bubbar Singh & Abhishek Mukhija, Managers, North Delhi Power Limited (NDPL)</i>
4:00 – 4:45 pm	Best Practices in Electricity Distribution in Maldives <i>Ibrahim Nashid & Ahmed Marsoom, Engineers, STELCO</i>
4:45 – 5:00 pm	Roundtable Discussion & Summary of Workshop
5:30 pm	Closing Reception & Dinner (Dynasty Ballroom)

Thursday, March 24, 2011

Delegates depart from Sheraton Hotel for Indira Gandhi International Airport (DEL)