



South Asia Regional Energy Partnership (SAREP)

Knowledge Sharing Workshop on Cross Border Electricity Trade (CBET)

October 12 and 13, 2023

Mount Lavinia Hotel, Colombo, Sri Lanka

Indicative Agenda

Time/ Duration	Training Activity/Topics	Purpose	Speaker/ Faculty (Indicative)
DAY I: October 12, 2023			
9.00am-9.30am		Registration	
9.30am-10.30am	Inaugural Session	<ul style="list-style-type: none"> • Welcome Remarks by Miriam Croos Moraes, Program Management Specialist, USAID/SL • Introductory Remarks and Overview of workshop by Bhaskar Rajah, Energy Adviser, USAID/India • Release of Paper “Participation of Nepal and Bhutan in Indian Market Based Mechanism (s) for Trading Electricity- Key Lessons Learned and Way Forward for South Asia countries” • Special Remarks by Eng. D.K.P.U. Gunathilake. Vice Chairman, CEB • Special Remarks by Prof. M.A.R.M. Fernando, Chairman, PUCSL • Key Note Address by Mr. M P D U K Mapa Pathirana, Secretary, MoPE • Vote of Thanks by Monali Zeya-Hazra, Sr. Regional Energy Specialist, USAID/India 	Moderated by Namrata Mukherjee, SAREP
10.30am-10.45 am		Break	
10.45am-11.15 am	Workshop overview and Current Status of Cross-border power trade	<ul style="list-style-type: none"> • Overview of the workshop agenda and expected outcomes • Current Status of the Cross-border power trade in South Asia, Challenges and opportunities, modes of trading 	Mr. Rajiv Ratan Panda, SAREP
11.15am-1.30pm	Power exchange operations	<ul style="list-style-type: none"> • Explaining the process of evolution of power exchanges in India, and their impact on power sector development • Discussion of key roles of exchanges along their functioning • Market Participants • Market Clearing and Settlement • Price Discovery Mechanism in Power Exchange • Overview of power exchange products and key updates 	Mr. Rohit Bajaj, Indian Energy Exchange (Power Exchange, India)
1.30pm-2.30pm		Break	

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2.30am-4.30pm	South Asian Power Market overview Bi-lateral power trading	Current Scenario of Power Trading in South Asian Region: <ul style="list-style-type: none"> • Introduction to Power Markets • Prevailing Power Market transactions in South Asian Region • Prevailing Policies, guidelines and procedures of cross border trading with India • Key stakeholders and roles of various entities in India in power markets Bi-lateral power trading experience sharing between Bhutan, Nepal, Bangladesh and India	Mr. Pramod Thakur, SAREP
DAY II: October 13, 2023			
9.00am-9.30 am		Registration	
09.30am-11.00 am	Indian Power Exchange participation experience by Nepal and Bhutan	Case study for trading of electricity through Indian power exchanges (process, challenges, and benefits) <ul style="list-style-type: none"> • Bhutan experience on power trading through exchange • Nepal experience on power trading through exchange 	Mr. Pramod Thakur, SAREP's report findings, Mr. Karma Namgyel, Department of Energy, Ministry of Energy and Natural Resources, Bhutan (<i>Ministry of Bhutan</i>) Mr. Suresh Bahadur Bhattarai, Nepal Electricity Authority (<i>Integrated Utility of Nepal</i>)
11:00am-11:30am		Break	
11:30am-13:00pm	Perspective of System Operator	Cross Border Energy Accounting and Settlement system <ul style="list-style-type: none"> • Role of System Operator in developing power market • Coordination between system operators for CBET • Energy Accounting and settlement in cross border electricity trade • Overview of relevant regulations on energy accounting and settlement • Overview of Energy Accounting and Settlement system 	Mr. Rajiv Kumar Porwal, Grid Controller of India (<i>National Load Despatch Center, India</i>) Virtual
1:00pm-2.00pm		Break	
2:00pm- 3.30pm	Cross Border Transmission Planning	Planning and execution of cross border transmission lines (technical) incl. various technologies such as AC interconnections, HVDC etc Experience sharing on development of grid connectivity of India with Nepal, Bhutan, Bangladesh, and Myanmar for CBET	Mr. Rajesh Kumar Central Transmission Utility of India
3.30pm-3.45 pm		Break	
3.45pm-5:00pm	Country perspective of Nepal and	Experience sharing by Nepal and Bangladesh on Cross Border Transmission line planning with India	Mr. Suresh Bahadur Bhattarai

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	Bangladesh on CBET transmission interconnection development and benefits	<ul style="list-style-type: none"> • Experience sharing on Transmission interconnection development (experience sharing from 400kV Dhalkebar-Muzaffarpur line.) • CBET Transmission line development and operations modalities (technical details, financing, ownership, project development, O&M) • Key benefits which Nepal has gained from Cross Border Electricity Trade (CBET) Bangladesh <ul style="list-style-type: none"> • Experience sharing on Transmission interconnection development (experience sharing from HVDC Baharampur-Bheramara cross-border power interconnection) • CBET Transmission line development and operations modalities (technical details, financing, ownership, project development, O&M) • Key benefits which Bangladesh has gained from Cross Border Electricity Trade (CBET) 	Nepal Electricity Authority <i>(Integrated Utility of Nepal)</i> Mr. B. M. Mizanul Hasan, PGCB <i>(Transmission Utility of Bangladesh)</i> Virtual
5:00pm-5:30 pm	Concluding Session	Concluding session, feedback and Vote of Thanks <ul style="list-style-type: none"> • Feedback and key take away by Sri Lankan stakeholders • Concluding Remarks by Monali Zeya-Hazra, USAID • Vote of Thanks by Namrata Mukherjee, SAREP 	USAID and SAREP

List of abbreviations:

- AC: Alternating Current
- CEA: Central Electricity Authority of India
- CEB: Ceylon Electricity Board
- CBET: Cross Border Electricity Trade
- CTU: Central Transmission Utility of India
- HVDC: High-Voltage Direct Current
- O&M- Operations and Maintenance
- PGCB: Power Grid Company of Bangladesh
- PGCIL: Power Grid Corporation of India Limited
- SAREP: South Asia Regional Energy Partnership
- SL: Sri Lanka
- TBD: To Be Determined
- USAID: U.S. Agency for International Development