

Mission of Nepalese Delegation to Singapore

24-25 October 2016
Singapore

Contents

Introduction	3
Introduction of Sustainable Energy Center of Excellence (SECOE)	3
Visit to Singapore Institute of Power and Gas (SIPG)	4
Asia Clean Energy Summit	4
Annex 1: Programme	5

Introduction

The Asian Development Bank (ADB) organized capacity building workshop in Singapore on 24-25 October 2016 for Nepalese delegation to enhance the participants' knowledge on advanced grid technologies, distribution system network of utilities in Singapore including their sectorial reform. The Singapore mission was part of the Sustainable Energy Center of Excellence (SECOE) workshop organized by Sustainable Energy Association of Singapore (SEAS) with support from ADB.

The main objective of the mission to Singapore was to participate in the underground network distribution workshop. Specifically, the mission aimed to: (i) share latest knowledge and experiences of advanced distribution systems and technologies, (ii) interact with other electricity utility companies on their experiences on sector reforms, and implementing distribution modernization activities, and (iii) join site visits to see the actual underground distribution systems with advanced technologies. Participants also participated in the Asia Clean Energy Summit during Singapore's International Energy Week (SIEW) on 25 October.

The program of activities are attached as Annex 1.

The Nepalese delegation consisted of 20 members from Ministries of Finance and Energy as well as from various distribution centers. The list of members of the delegation is attached as Annex 2.

Introduction of Sustainable Energy Center of Excellence (SECOE)

The participants were able to attend the first part of the programme of the workshop on Asia Regulatory Forum which was being organized by SEAS as part of SECOE. The participants learned how SECOE helps policy makers in increasing and broadening their knowledge with regard to policy, technology and financing in the sustainable energy sector. Participants had an opportunity to meet delegates from different countries and to exchange views and experiences on their respective countries' policies and technologies for the development of clean and sustainable energy in the region. SEAS Chairman, Mr. Edwin Khew and Mr. Yongping Zhai, ADB Technical Advisor (Energy) provided welcome remarks to the participants. It was highlighted the need for a stronger regulatory policy in order to move forward any development endeavor in the energy sector. Ms. Kavita Gandhi, Executive Director of SEAS gave an introduction about SECOE.

Visit to Singapore Institute of Power and Gas (SIPG)

The participants had the opportunity to visit the Singapore Institute of Power and Gas (SIPG). SIPG is a subsidiary of Singapore Power Limited and was established with industry support and endorsement from the Energy Market Authority of Singapore. The institute is committed to deliver quality training programs for the power and gas sector not only in Singapore but to the whole region as well. SIPG offers a variety of courses to meet the needs of professionals and industry practitioners.

A comprehensive programme was arranged for the participants to learn about the structure of the electricity distribution network, underground cable planning design and installation and equipment maintenance philosophies in Singapore. Topics covered the overall Singapore electricity network, achieving reliability of underground distribution network planning and maintenance, and emergency operation center. After the presentation, the participants were given the opportunity to ask questions and clarify issues on how they can relate the Singapore experience in their proposed electricity distribution project in Nepal. The whole day long session ended with a visit to Emergency Operation Center and Electricity Efficiency Center (EEC) where they came to know how EEC is promoting public awareness in energy efficiency and energy conservation.

All the participants joined the networking program in the evening where they interacted with policy makers, entrepreneurs and businessmen involved in renewable energy sectors.

Asia Clean Energy Summit

Participants attended the opening ceremony of Asia Clean Energy Summit 2016 followed by the Clean Energy Leaders Dialogue. The Dialogue focused on the need for a stable market for clean energy in Asia and further innovation in PV industries to reduce costs. In the afternoon, the participants attended Solarizing Singapore where they learned about the various solar energy programmes of the government and the business models of solar leasing.

Participants also visited various stalls in the exhibit area and gained knowledge on new technologies on smart grid, smart homes and solar PV modules.

Annex 1: Programme

The Underground Network Distribution Workshop will have the following objectives (i) to share latest knowledge and experiences of advanced distribution systems and technologies, (ii) interact with other electricity utility companies on their experiences on sector reforms, and implementing distribution modernization activities, (iii) join site visits to see the actual underground distribution systems with advanced technologies. Participants will also participate in the Asia Clean Energy Summit during Singapore's International Energy Week (SIEW).

Time	Program 24 Oct 2016 (Monday)
8:30 am	Registration – Pan Pacific Hotel Level 1, Pacific Ballroom 1, Pan Pacific Hotel, Singapore 7 Raffles Boulevard, Marina Square, Singapore 039595
9:00 – 9:20 am	Welcome Remarks <ul style="list-style-type: none"> 1. Er Edwin Khew, Chairman, Sustainable Energy Association of Singapore (SEAS) 2. Dr Yongping Zhai, Technical Advisor (Energy), Sector Service Cluster, Sustainable Development and Climate Change Department, Asian Development Bank (ADB)
9:20 – 9:40 am	Introduction of Sustainable Energy Centre of Excellence (SECOE) Ms Kavita Gandhi, Executive Director, SEAS
9:40 am	Coffee Break
9:55 am	Bus to Singapore Institute of Power & Gas SP Training Institute, 1A Woodleigh Park, Singapore 357874
10:30 – 10:35 am	Welcome Address by Chevaun Chen, Assistant Principal, Singapore Institute of Power and Gas (SIPG)
10:35 – 11:15 am	Singapore Electricity Network
11:15 am – 1:15	Achieving Reliability for Underground Distribution Network Planning and
1:15 – 2:00 pm	Lunch
2:30 – 3:30 pm	Emergency Operation Center (EOC) at SP PowerGrid Ltd
3:30 – 4:00 pm	Tea Break
4:00 – 5:30 pm	Discussion & Feedback
5:30	End of Program at Singapore Institute of Power & Gas
6:45 pm	Assemble at Level 1, Pacific Ballroom 1, Pan Pacific Hotel, Singapore
7:00 pm	SIEW Networking Reception National Gallery Singapore, 1 St Andrew Road, Singapore 178957

Annex 2: List of Participants

Name	Job Position/Title	Organization
Ghimire, Dinesh Kumar	Joint Secretary	Ministry of Energy
Timalsena, Kiran Raj	Engineer	Ministry of Energy
Shrestha, Santosh	Under Secretary	Ministry of Finance
Khatri, Lai Bahadur	Under Secretary	Ministry of Finance
Upadhyay, Sanjaya Kumar	Director	Department of Information & Technology
Sharma, Nutan Prakash	Chief Division Engineer	Department of Electricity Development
Shakya, Juju Ratna	Deputy Manager	Baneswor Distribution Center
Chand, Jang Bahadur	Deputy Manager	Lagankhel Distribution Center
Singh, Manoj Kumar	Deputy Manager	Ratnapark Distribution Center
Karna, Satish Kumar	Deputy Manager	Marajgunj Distribution Center
Mishra, Anjani Kumar	Deputy Manager	Putchowk Distribution Center
Amatya, Bikram Kumar	Assistant Manager	Bhaktapur Distribution Center
Raman, Rajkumar	Assistant Manager	Thimi Distribution Center
Mishra, Pramod Kumar	Assistant Manager	Kuleswor Distribution Center
Shrestha, Prajwal Man	Assistant Manager	Kirtipur Distribution Center
Jaiswal, Santosh Kumar	Assistant Manager	Jorpati Distribution Center
Adhikari, Abhisek	Assistant Manager	Nepal Electricity Authority
Chaudhary, Pramila	Engineer	Nepal Electricity Authority
Tiwari, Tek Nath	Deputy Manager	Nepal Electricity Authority
Chand, Jang Bahadur	Deputy Manager	Nepal Electricity Authority