

Promoting Innovations for Energy Efficiency Technologies, Finance and Business Models in Developing Asian Countries

5 June 2018 (Tuesday), 9.00 a.m. – 5.30 p.m.
Auditorium A, ADB Headquarters, Manila

Background

Asia and the Pacific is on track to becoming the world’s largest energy-consuming region in the next decade, exposing the region to energy security and climate change risks unless measures are taken to contain energy consumption. Energy efficiency is highly cost-effective and has the potential to be a main driver for reducing energy consumption, enhancing energy security, and addressing climate change risks. It is also a key strategy for countries to meet the climate change targets outlined in their nationally determined contributions (NDCs) as part of the 2015 Paris Agreement. Developing countries in Asia and the Pacific, while particularly vulnerable to the effects of climate change, still need to meet their own growing demand for energy to drive their economic and social development. Pursuing energy efficiency initiatives will contribute significantly to ensure that developing countries meet their energy needs and enhance their own national energy security, while balancing the need to reduce environmental risks and impact.

This Deep Dive Workshop (DDW) is being jointly organized by the Korea Energy Agency (KEA) and Asian Development Bank (ADB). These organizations have been steadily pursuing efforts to promote energy efficiency initiatives and investments in Asia and the Pacific countries through knowledge sharing, technical advisory services, and facilitating investments in energy efficiency.

Objective of the Workshop

This DDW will provide participants, particularly from developing countries, an opportunity to become familiar with innovations in policies, technologies, finance, and business models in the areas of both supply-side energy efficiency (SSEE) and demand-side energy efficiency (DSEE); and to explore possible applications for future investment projects as well as technical assistance.

Agenda

| | |
|-------------|---|
| 8:30 – 9:00 | Registration |
| 9:00 – 9:30 | <p>Opening Session</p> <p><i>Moderator:</i> Mr. Priyantha Wijayatunga, Asian Development Bank</p> <p><i>Keynote Speakers:</i></p> <ul style="list-style-type: none"> ◆ Dr. B. M. S. Batagoda, Secretary, Ministry of Power and Renewable Energy, Sri Lanka ◆ Mr. Rahamat Mohammad Ullah Dastagir, Additional Secretary, Power Division, Ministry of Power, Energy and Mineral Resources, Bangladesh |

| | |
|---------------|--|
| 09:30 – 10:50 | <p>Session 1: Advancing Energy Efficiency in the Policy Arena: Where are we now?</p> <p>Moderator: Mr. Pil-Bae Song, Asian Development Bank</p> <p><i>Session Description:</i></p> <p>Speakers will discuss progress achieved in getting energy efficiency into the policy agenda of developed and developing countries, including examples of high impact policies and measures that can be adapted by other countries.</p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> ◆ Bangladesh: Mr. Mohammed Shahadat Husain, Member (Administration), Sustainable and Renewable Energy Development Authority (SREDA) ◆ India: Mr. Venkatesh Dwivedi, Chief Operating Officer, Energy Efficiency Service Limited (EESL) ◆ Japan: Mr. Yasuhiro Sakamoto, Energy Efficiency Policy Specialist, PADECO, Co. Ltd. ◆ Korea: Mr. Kyung Soon Park, Director, International Cooperation Team, Korea Energy Agency ◆ Sri Lanka: Mr. Ranjith Sepala, Director General, Sri Lanka Sustainable Energy Authority <p><i>Open Forum</i></p> |
| 10:50 – 11:00 | <p>Coffee and tea break</p> |
| 11:00 – 12:30 | <p>Session 2: Innovations in Energy Efficiency Technologies – I</p> <p>Moderator: Mr. Aiming Zhou, Asian Development Bank</p> <p><i>Session Description:</i></p> <p>Speakers will discuss recent developments and innovations in technologies related to supply-side energy efficiency in generation, transmission, and distribution of power including experiences in applying advanced technologies. An open discussion on how these SSEE technologies can work for the needs and potential investment projects of developing countries will follow.</p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> ◆ High efficiency transformers/cables (High Tension Low Sag Conductor): Mr. Luke Ogoshi, Tokyo Rope Manufacturing, Japan ◆ Korea: Water and Energy Nexus with Hybrid Systems: Mr. Youngseag Baeg, Senior Manager, LG Electronics ◆ Energy Efficiency through Blockchain Supported Behavior Change: Mr. Matthias Gelber, ECO Environmental Chief Officer, NEWERA Energy, Singapore ◆ Korea: Building Energy Efficiency Technology based on Big Data of Demand Response: Mr. Seongchel Kim, CEO, Paran Energy <p><i>Open Forum</i></p> |
| 12:30 – 14:00 | <p>Lunch</p> |

| | |
|---------------|---|
| 14:00 – 15:30 | <p>Session 3: Innovations in Energy Efficiency Technologies – II</p> <p>Moderator: Mr. Kyung Soon Park, Korea Energy Agency</p> <p><i>Session Description:</i></p> <p>Speakers will discuss recent development and innovations in demand-side energy efficiency technologies, including opportunities and challenges in incorporating these into investment projects. An open discussion on how these DSEE technologies can work for the needs and potential investment projects of developing countries will follow.</p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> ◆ Cooling/Heating: Mr. Philipp Munzinger, Project Manager, GIZ Proklimar, Germany ◆ Korea: ESS & EMS with Renewable Energy: Mr. Youtak Kim, Manager, Korea Battery Industry Association ◆ Korea: Case Study of Waste-to- Energy in Korea: Mr. Su-geun Chae, Deputy General Manager, Dohwa Engineering ◆ Korea: Oversea Advanced Metering Infrastructure (AMI) project cases: Mr. Kookwon Youn, Director, Nuri Telecom Corp. <p><i>Open Forum</i></p> |
| 15:30 – 16:00 | <p>Coffee and tea break</p> |
| 16:00 – 17:30 | <p>Session 4: Making it Happen: Financing Options and Business Models</p> <p>Moderator: Mr. Jiwan Acharya, Asian Development Bank</p> <p><i>Session Description:</i></p> <p>Speakers will discuss trends in financing energy efficiency initiatives for developing countries; as well as business models that have worked in both developed and developing countries in promoting the deployment of energy efficient technologies. An open discussion on how these business models and financing schemes can be utilized by developing countries in implementing energy efficiency initiatives will follow.</p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> ◆ Financing Mechanism for Supporting Large Scale Energy Efficiency: Mr. Pradeep Perera, Principal Energy Specialist, Asian Development Bank ◆ IDB Partnership with Development Bank in Turkey to Support Energy Efficiency Enhancement Initiatives: Mr. Farid Khan, Senior Energy Specialist, Islamic Development Bank ◆ Korea: Innovative Business Models for Demand Side Management: Mr. Byungsam Kim, Director of Energy & Environment Center, KMAC ◆ Korea: An Economic Evaluation of ESCO Scheme in Korea: Mr. Ik Jin, Director, National Assembly Budget Office <p><i>Open Forum</i></p> <p>Wrap up and Closing</p> |
| 18:00 | <p>ACEF 2018 Opening Reception</p> |

About the Organizers

The Asian Development Bank (ADB), based in Manila, is dedicated to reducing poverty in Asia and the Pacific through inclusive economic growth, environmentally sustainable growth, and regional integration.

The Korea Energy Agency (KEA), established in 1980, has been at the center of the transformation into a new energy era. It implements projects to foster the efficient and rational use of energy, thereby reducing carbon dioxide emissions and contributing to sound economic development.