

ASIA CLEAN ENERGY FORUM 2019

PARTNERING FOR IMPACT

17-21 June 2019 | Manila



Deep Dive Workshop

Monday, 17 June 2019, 9:00 a.m. – 5:30 p.m.

Multifunction Hall 2

Clean Energy Policy, Financing and Innovation (7th ADB-MOTIE JOINT ENERGY FORUM)



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Background

Asia and the Pacific is experiencing massive energy challenges due to an unprecedented increase in energy demand in terms of both scale and speed as well as high dependence on fossil fuels. This trend is likely to continue in the foreseeable future to sustain high economic growth trajectory and will pose significant energy security and climate change risks to the region.

On the other hand, the global energy market is currently shifting from commodity-based solutions to technology-based solutions. Development and commercialization of innovative clean energy technologies will reduce energy consumption, lower greenhouse gas emissions, ease the pressure on existing fossil fuels, and thereby improve energy security.

As part of the 2015 Paris Agreement, each country in Asia and the Pacific has announced its commitment to increasing energy efficiency by two to three times over the next 10-20 years and replacing more than 20% of total energy consumption with renewable energy sources.

Accelerating deployment of innovative clean energy technologies is at the center of solving many challenges and is key to unlocking the full potential for sustainable energy future in the region.

This Deep Dive Workshop (DDW) is being jointly organized by the MOTIE, the Korea Energy Agency (KEA), Korea Plant Industries Association (KOPIA) and the Asian Development Bank. Since 2012, these organizations have been jointly and steadily pursued efforts to promote clean energy initiatives in Asia and the Pacific countries through knowledge sharing, joint project undertakings, technical advisory services, and facilitating investments.

Objective

- Korea's development knowledge sharing in the energy sector for sustainable and inclusive growth in ADB developing member countries (DMCs).
- Enhancing the understanding of clean energy policy & status of emerging countries.
- Developing collaboration projects between ADB and MOTIE.

Agenda

- 09.00 a.m. – 09.10 a.m. **Opening Session**
Opening Remarks: Yongping Zhai, Chief of Energy Sector Group, ADB
Congratulatory Remarks: Seongjun Bae, Director, MOTIE
- 09.10 a.m. – 10.30 a.m. **Topic: Demand Side Management/ Demand Response (DSM/DR)**
- Presenter 1: DSM/DR in Korea
Joong-Shik Kim, Byucksan Power
- Presenter 2: DSM/DR in Singapore
Yang Liu, National University of Singapore
- Presenter 3: DSM/DR in Bangladesh
Helal Uddin, Power Division, MPEMR, Bangladesh
- Presenter 4: DSM/DR in Viet Nam
HyunJung Lee, ADB
- 10.30 a.m. – 10.50 a.m. Coffee Break
- 10.50 a.m. – 12.10 p.m. **Topic: Clean Energy Financing**
- Presenter 5: Promoting Clean Energy Project through PPP
Eui-Jong Jeong, Global PPP Forum
- Presenter 6: UCCRTF Fund and Clean Energy
Virinder Sharma, ADB
- Presenter 7: Sustainable and Locally Optimized Clean Energy through ODA
Seong-Ryoung Kang, KIAT
- Presenter 8: New Social Impact Financing Model for Renewable Energy Project
Development in Developing Countries
Young-Jae Jo, Envelops
- Presenter 9: Digitization to Finance Tomorrow's Clean Energy
Vincent Bakker, Positive Energy Ltd.
- 12.10 p.m. – 12.30 p.m. **Q&A**

- 12.30 p.m. – 14.00 p.m. Luncheon
- 14.00 p.m. – 15.30 p.m. **Topic: Innovations in Clean Energy Technologies and Business Models I**
- Presenter 10: High-Level Technology and ADB
Yoonah Lee, ADB
- Presenter 11: Hydrogen Economy Roadmap of Korea
Hae-Won Lee, Korea Institute of Science and Technology
- Presenter 12: Retail to Wholesale Power – How to get There with Rooftop Solar
+
Storage
Rukiye G. Altun, ABB
- Presenter 13: Clean DC Revolutions to Standardize All Renewable Energy
Henry Lee, ADC Energy Inc.
- Presenter 14: Towards a Solar Map for the Asia-Pacific region
Jae-Oh Seo, Haezoom
- 15:30 p.m. – 15:50 p.m. **Q&A**
- 15.50 p.m. – 16.10 p.m. Coffee Break
- 16.10 p.m. – 17.40 p.m. **Topic: Innovations in Clean Energy Technologies and Business Models II**
- Presenter 15: Innovation Landscape for a Renewable-Powered Future
Yong Chen, IRENA
- Presenter 16: Virtual-Power Plant Technology
Chae Sung Lee, Korea Management Association Consulting
- Presenter 17: High-Efficient Waste-to-Energy Combined with recycling
Sietse Anne Agema, AWECT
- Presenter 18: EV Sharing System for the Growth of Sharing Economy
Su-Won Rim, OTOSOne
- Presenter 19: Innovation in Thermal Energy Storage
Alexander Post, MGA Thermal
- 17.40 p.m. – 18.00 p.m. **Q&A and Wrap-up**

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.

Ministry of Trade, Industry and Energy (MOTIE), was established at the birth of the Republic of Korea in 1948 with the mission to coordinate the nation's industries. Now better equipped to deal with the challenges of the 21st century, MOTIE is committed to providing a foundation for economic growth by combining its efforts to fulfill its wide range of responsibilities in the areas of commerce, investment, industry, and energy.

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.

Korea Plant Industries Association (KOPIA), promises to make every effort to continue improving its services for the member companies and communicating with government authorities and key stakeholders, so the plant industry remains a main driving force in Korea.