

# ASIA CLEAN ENERGY FORUM 2019

PARTNERING FOR IMPACT

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## Deep Dive Workshop

### The Twelfth Meeting of Asia Solar Energy Forum “Development Trends in Solar Manufacturing and Diversified Application”



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#### Background

The Asia Solar Energy Forum (ASEF) was established with the support of Asian Development Bank as a non-profit regional knowledge sharing platform organization to help facilitate solar energy technology transfer across Asia and the Pacific. ASEF aims to bridge the information gap between suppliers and developers in the public and private sectors, support the growth of local solar energy competence in the developing countries of Asia and the Pacific, while addressing the barriers to trade in solar and smart grid applications.

Recent technological advances have made solar energy more competitive than fossil fuel-derived energy, and localized renewable-based distributed energy systems such as micro/mini-grids have expanded access to electricity. In addition, multiple trends are driving the transformation of global energy systems, especially electricity networks. Accelerated deployment and rapid cost declines of solar and other renewables, energy storage, electric vehicles, smart grid technology, and Internet of Things (IoT) can facilitate the growth of digitalized, decentralized, decarbonized energy systems, increasing network resilience while creating opportunities for new business models and operations.

Along with these trends, deployment of solar energy can contribute greatly to operational priorities in ADB Strategy 2030, and we can extend the meaning of letter “S” in ASEF to include “Storage” and “Smart Grids”.

#### Objective

Covering strategic considerations for managing 21st century energy networks, the Twelfth Meeting of ASEF will highlight two topics:

- (i) deployment of solar manufacturing capacity in our developing member countries, and business model development of S (Solar, Storage, Smart Grids); and

- (ii) diversified solar application and distributed energy system (i.e. solar for urban (building-integrated PV), solar for agriculture/water (solar pump, solar greenhouse), solar for transport (street lighting, EV charging), solar for urban (vertical farming), etc.).

In addition, this ASEF Deep Dive Workshop will provide a platform to participants to a) network with excellent speakers on exciting solar application and distributed energy systems, and b) leverage the resource for ideas, suggestions and possible solutions to more deployment of solar.

## Agenda

1.30 p.m. – 2.00 p.m.	Registration
2.00 p.m. – 2.10 pm	<b>Opening Remarks</b> <ul style="list-style-type: none"><li>• Yongping Zhai, Asian Solar Energy Forum, ADB</li></ul>
2.10 p.m. – 2.30 p.m.	Keynote Address <ul style="list-style-type: none"><li>• International Solar Alliance</li></ul>
2.30 p.m. – 3.30 p.m.	<b>Session 1</b> Deployment of solar manufacturing capacity in DMCs, and business model development of S (Solar, Storage, Smart Grids); <ul style="list-style-type: none"><li>• Financial support (International organization, Foundation)</li><li>• Business model support (System providers)</li><li>• Increasing local manufacturing capacity</li></ul> <b>Presentations:</b> <ul style="list-style-type: none"><li>• Relocation of solar PV manufacturing capacity (Jia Yu, Peking University)</li><li>• Thin-film solar technology and diversified application (James Chen, Hanergy)</li><li>• Solar PV project development in Asia</li><li>• Solar business model in the Philippines (Lee Kevin Lamela, VIVANT)</li></ul>
3.30 p.m. – 4.00 pm	Coffee Break
4.00 p.m.– 5.00 pm	<b>Session 2</b> Solar +(Plus): Diversified solar application and distributed energy systems such as; <ul style="list-style-type: none"><li>• Solar pumps/irrigation (Agri/Water)</li><li>• Solar mini/microgrids, Solar street lighting, Solar building (Urban)</li><li>• Solar energy trading (Digital)</li></ul> <b>Presentations:</b> <ul style="list-style-type: none"><li>• Diversified solar application</li><li>• WB solar project showcases in South Asia (Amit Jain, World Bank)</li><li>• Innovative solar mini-grids</li><li>• Solar energy trading (Mohd Adzha Bin Husin, Sustainable Energy Development Authority)</li></ul>
5.00 p.m. – 5.10 pm	Closing Remarks
5.10 p.m. – 5.30 pm	ASEF General Meeting (Invitation Only) <ul style="list-style-type: none"><li>• ASEF boards and members</li></ul>

## Indicative List of Speakers

### ADB

- Yongping Zhai, Chief of ESG SDCC, ADB, ASEF Board Member
- TBD, International Solar Alliance (ISA)
- Yong Chen, Programme Officer for Sustainable Urban Energy, International Renewable Energy Agency (IRENA)
- James Chen, CEO of Hanergy Philippines, HANERGY THIN FILM POWER GROUP, Philippines
- Amit Jain, Ph.D. Senior Energy Specialist, World Bank
- TBD, Energy Efficiency Services Limited (EESL), India, and Jiwan Acharya, Principal Energy Specialist, ADB
- Mohd Adzha Bin Husin, Project Engineer of RE Technologies, Sustainable Energy Development Authority (SEDA) , Malaysia
- Lee Kevin Lamela, Business Development Manager, VIVANT, Philippines
- Jia YU, Ph.D. Director, Dept. of the International Development Cooperation, Institute of New Structural Economics at Peking University, PRC
- TBD