



# ASIA CLEAN ENERGY FORUM 2018

HARNESSING INNOVATION TO POWER THE FUTURE

Manila | 4-8 June, 2018

*Key Highlights*

# ABOUT

## THE ASIA CLEAN ENERGY FORUM 2018



The Asia Clean Energy Forum (ACEF) 2018 was held at the Asian Development Bank (ADB) Headquarters from 4 to 8 June 2018. The Forum offered a wide range of learning and networking events that included exciting and interactive plenaries, thematic track sessions, deep dive workshops, knowledge networking and matchmaking sessions, receptions and satellite events.

ACEF 2018 brought together a diverse mix of project developers, financial institutions and investors, non-profits, entrepreneurs, government officials, donors and program managers, and civil society and academia for one intense and enlightening week of knowledge exchange, brainstorming, and partnership development.



### ACEF 2018 AT A GLANCE

OVER

**1,300**

PARTICIPANTS

OVER

**73**

COUNTRIES

**250**

SPEAKERS

**45**

WORKSHOPS, SESSIONS  
AND NETWORKING EVENTS

OVER

**USD 10 MILLION**

LEVERAGED IN INVESTMENT AND PROJECT/PROGRAM FUNDING THROUGH CONNECTIONS MADE AT ACEF

### GLOBAL REPRESENTATION



# WHAT WAS NEW

AT ACEF 2018?

## Networking and Matchmaking Day

ADB opened its doors on the morning of the first day of the ACEF week to give participants a full day of open and free-flowing networking. Over 500 participants filled the hallways of ADB to set up side meetings that would lead to a productive week of knowledge exchange and partnership development.



## Matchmaking events hosted by

1 International Renewable Energy Agency (IRENA)

2 The Private Financing Advisory Network - Asia (PFAN-Asia)

3 World Intellectual Property Organization (WIPO)



## ADB New Energy Leaders Awards

At the opening plenary, Woochong Um, Director General, Sustainable Development and Climate Change Department, Bambang Susantono, Vice-President, Knowledge Management and Sustainable Development, and Yongping Zhai, Chief of Energy Sector Group represented ADB in giving awards to seven New Energy Leaders.



The New Energy Leaders initiative was launched by ADB in 2017 to showcase creative solutions to Asia-Pacific's energy development challenges and to promote the next generation of Asian clean energy entrepreneurs.

## ADB on the Ground: Driving the Energy Transition



ADB showcased 22 of its innovative clean energy projects that have been implemented across the Asia-Pacific region. These projects covered new technologies, approaches, and financing mechanisms to accelerate a shift to more sustainable, low-carbon energy sources and systems. Over 400 participants engaged with ADB staff and their government counterparts at this knowledge networking session.

## Knowledge Dim Sum with Clean Energy Entrepreneurs

More than 300 participants had the chance to network with 23 different entrepreneurs and start-ups that are developing new business and delivery models and are turning the energy world on its head. Entrepreneurs pitched their innovations covering blockchain for microgrids, energy storage for smart-grids, power appliances for the agricultural sector, cutting edge solar and wind energy technologies, and more.



**First prize**  
Emman Foronda (Philippines)



**Second prize**  
Danilo Victoriano (Philippines)



**Third prize**  
Aritra Bhowmik (India)



**Most Liked Photo**  
Mayank Gaur (India)

## Instagram Clean Energy Photo Contest and Awards Ceremony

For the first time in its 13-year history, ACEF held an Instagram photo contest in partnership with Canon Philippines and the Islamic Development Bank. Amateur photographers were invited to submit photos that capture positive and life-changing impacts from clean energy innovations in Asia through the lens of a camera. The contest received over 500 photo submissions, of which four were selected as winners by a panel of judges from ADB, the Islamic Development Bank, and Canon Philippines. The winners were recognized at an awards ceremony during an ACEF cocktail reception by Bambang Susantono, Vice President of Knowledge Management at ADB and Sara Black, Celebrity Photographer and Brand Ambassador for Canon Philippines.

# OPENING

## PLENARY

### Welcome Address by the Co-organizers

Speakers representing the ACEF 2018 co-organizers welcomed the participants and shared their vision for a clean energy transition in the Asia-Pacific and provided inspiration for the clean energy community to meet the pressing challenges of providing universal access to affordable clean, and distributed energy.

- Woochong Um, Director General, Sustainable Development and Climate Change Department, ADB
- Bambang Susantono, Vice-President, Knowledge Management and Sustainable Development, ADB
- Carrie Thompson, Deputy Assistant Administrator of the Bureau for Economic Growth, Education and Environment (E3), United States Agency for International Development
- Young-Man Woo, Director General, Global Project Division, Korea Energy Agency
- Naoyuki Yoshino, Dean, ADB Institute

### Special Address by Visionary Clean Energy Leaders

Three highly accomplished clean energy leaders shared their unique insights and experiences about what it will take for Asia and the Pacific to leapfrog to a low-carbon energy pathway.

- Laszlo Varro, Chief Economist, International Energy Agency
- Dipal Barua, Co-founder of the Grameen Bank, Founder and Chairman of the Bright Green Energy Foundation
- Monica Araya, Founder and Director, Costa Rica Limpia



## DEEP DIVE

### WORKSHOPS

ACEF participants had the chance to attend 16 deep dive workshops (DDWs) focused on topics such as grid integration of variable renewable energy; effective mini-grid development strategies and business models; women entrepreneurs in clean energy; and much more. Some DDWs took the form of “master classes” while other workshops were more interactive and focused on brainstorming and network-building.



#### ✓ 5 June 2018 (Tuesday)

- Promoting Innovations for Energy Efficiency Technologies, Finance and Business Models in Developing Asian Countries
- Promoting Efficient, Clean Cooling through Technology and Policy Innovation
- The Eleventh Meeting of Asia Solar Energy Forum
- Grid Integration of Variable Renewable Energy: Innovative Solutions at Transmission and Distribution Levels
- Developing Sustainable Mini-Grids
- Realising the Potential of Waste to Energy
- From Startup to Scale Up
- Deep Dive Workshop on Clean Cooking
- Sustainable Energy for All in the Asia-Pacific

#### ✓ 8 June 2018 (Friday)

- Opportunities and Models for Early-Stage and Community-Based Renewable Energy Project Finance, and Discussion of Additional Barriers to Unlocking Project Capital at Scale
- Gigatech Solutions for Gigaton Problems: Floating Solar Practice and Potential
- Renewable Energy Auctions: A New Paradigm for Asia
- Battery Energy Storage Technology for Clean Energy
- Connecting Asian and Global Carbon Capture, Utilization and Storage (CCUS) Expertise
- Women Entrepreneurship in Clean Energy
- Scaling-Up Solar PV Deployment: Implementing Projects with Assured Quality

# THEMATIC

## TRACK SESSIONS

The heart of the main ACEF 2018 consisted of the four thematic tracks, structured under the core pillars of Energy for All. These included:

- Energy efficiency
- Renewable energy
- Energy access
- Navigating the Future: a cross-cutting theme focused on big ideas that can serve as important platforms and springboards for driving the clean energy industry forward.

04 Thematic Tracks

16 Sessions

72 Speakers from more than 20 countries

# CLOSING

## PLENARY

Speakers in the closing plenary emphasized how innovation, inclusivity, and strength in numbers are the driving forces helping Asia and the Pacific to leapfrog to a low-carbon energy pathway.

## Keynote Speakers

**Haukur Hardarson**  
CEO, Arctic Green Energy

**Roli Gupta**  
Founder and CEO, Oorjan India

**Leandro Leviste**  
Founder and CEO, Solar Philippines

## Panel Discussion with Clean Energy Innovators

A group of experts and practitioners engaged in a thoughtful panel discussion about what it really takes to be innovative in clean energy, as well as the challenges, and the rewards.

- Ashok Bhargava, Energy Division Director, Central and West Asia Department, Asian Development Bank
- Rana Adib, Executive Secretary, Renewable Energy Policy Network for the 21st Century (REN21)
- Athena Ronquillo Ballesteros, Climate Finance Director, Asia at Growald Family Fund
- Danny Kennedy, Managing Director of the California Clean Energy Fund and Cofounder of Sungevity and Powerhouse
- Chunguang (Charlotte) Wang, Founder & CEO EQuota Energy Technology (Shanghai) Co., Ltd.
- Aniruddha Sharma, Co-founder & CEO, Carbon Clean Solutions



## Special Keynote Speech by the President of ADB

Takehiko Nakao, President of the ADB, delivered a special keynote speech in which he congratulated the 2018 New Energy Leaders on their achievements and how they have been tackling challenges in the areas of energy efficiency, renewable energy, and energy access across Asia, by applying their innovative business and financial models.



**Technology by itself is not enough. Projects with advanced technologies must be accompanied by viable business models, stable regulation, and smart policies to deploy the technologies.**



- Takehiko Nakao, President of the ADB



# SATELLITE

## EVENTS

**8** Events took place at ADB in parallel to ACEF but outside of the main forum, DDWs, and networking day.

- REN21 Asia launch of Renewables 2018 Global Status Report
- Meeting of Asia-Pacific ESCO Associations
- “Creating Empowering Images: Inspiring Lives through Clean Energy”, a Lunchtime Talk by Celebrity Photographer Sara Black
- White Goods Olympics Demonstration
- Drone Demonstration
- Electric Vehicles Talk
- Off-grid Impact Stories
- Women in Energy Lunch

## Announcements made at ACEF 2018

Several organizations leveraged the ACEF platform to launch their regional clean energy initiatives and programs to the ACEF Community and media.

**Asia Launch of Renewables 2018 Global Status Report**, Renewable Energy Policy Network for the 21st Century (REN21): Key global report on status and trends in the renewable energy industry.

**Launch New Energy Nexus Southeast Asia**, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and New Energy Nexus Southeast Asia: New platform for entrepreneurship and incubation in Southeast Asia.

**Launch of Sustainable Energy Marketplace for Asia**, The International Renewable Energy Agency (IRENA): New marketplace to link innovative sustainable energy projects with sources of investment.

**Launch of Certified Energy Savings Verifier**, Efficiency Valuation Organization (EVO): New certification program for Asian professionals to certify savings in EE projects.

# PARTICIPANT

## FEEDBACK

ACEF 2018 exceeded the expectations of most participants, in terms of the variety of workshops, events, and networking opportunities offered. In a survey completed by 260 participants, ACEF 2018 received overwhelmingly positive feedback.

**98%**

Respondents expressed the desire to attend the next ACEF.

**97%**

Respondents found the forum to have “met”, “exceeded” or “far exceeded” their expectations.

**90%**

Respondents ranked the forum above other international events related to clean energy.

**90%**

Respondents ranked the forum either highest or second highest in terms of how useful it was to their work.

## Most Liked Deep Dive Workshops

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

Grid Integration of Variable Renewable Energy: Innovative Solutions at Transmission and Distribution Levels

Sustainable Energy for All in the Asia-Pacific & Developing Sustainable Mini-Grids

## Key Motivation Factors for Attending ACEF 2018

- Learn about the latest clean energy developments - 51%
- Received invitation by ADB - 45%
- Pursue networking opportunities - 37%

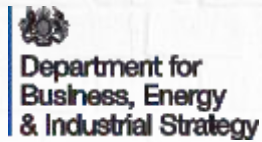
## Participant Wishlist

- Webinar series for peer to peer networking
- Regional ACEFs that would take place in specific regions of Asia
- ACEF website platform

## KEY SPONSORS



## DONORS



Government  
of Canada

Gouvernement  
du Canada





## PARTNERS

 <p><b>giz</b> Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH</p>	 <p><b>Start Up Energy Transition</b></p>	 <p><b>SUSTAINABLE ENERGY FOR ALL</b></p>	 <p><b>NREL</b> NATIONAL RENEWABLE ENERGY LABORATORY</p>	 <p><b>California Clean Energy Fund</b></p>	 <p><b>ASEF Asia Solar Energy Forum</b></p>
 <p><b>GESA</b> Global Energy Storage Alliance</p>	 <p><b>PFAN</b> Partnership Framework for Climate and Clean Energy</p>	 <p><b>Alliance for Rural Electrification</b> Bringing a Light for Progress</p>	 <p><b>ENERGIA</b> INTERNATIONAL NETWORK ON GENDER AND SUSTAINABLE ENERGY</p>	 <p><b>ASIA CLEAN ENERGY SUMMIT</b> CONFERENCE &amp; EXHIBITION</p>	 <p><b>GLOBAL ALLIANCE FOR CLEAN COOKSTOVES</b></p>
	 <p><b>AMCHAM PHILIPPINES</b> The American Chamber of Commerce of the Philippines, Inc.</p>	 <p><b>Canon</b></p>	 <p><b>energy for all</b></p>	 <p><b>KIGALI</b> COOLING EFFICIENCY PROGRAM</p>	 <p><b>GOGLA</b> The voice of the air conditioning and energy industry</p>
 <p><b>IRENA</b> International Renewable Energy Agency</p>	 <p><b>WIPO GREEN</b> Transforming Trademark into Sustainable Management</p>	 <p><b>Bloomberg</b> NEW ENERGY FINANCE</p>	 <p><b>Energy Efficiency Facilitating Hub</b> ENERGY CONSERVATION CENTER JAPAN BEHALL-EST HUB</p>	 <p><b>UNEP</b> United Nations Environment Programme</p>	 <p><b>SEEA</b> Statistical Office of the European Communities</p>
 <p>British Embassy Manila</p>	 <p><b>COPENHAGEN CENTRE ON ENERGY EFFICIENCY</b> C3E2</p>	 <p>Department for Business, Energy &amp; Industrial Strategy</p>	 <p><b>FPH</b> A Lopez Group Company Philippines Energy</p>		

## KNOWLEDGE PARTNER



## GET READY

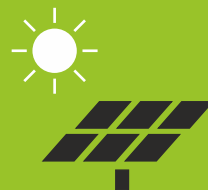
FOR ACEF 2019

### Sponsorship Opportunities

ACEF is eager to expand its community and keeps its doors open to welcome new sponsorship opportunities with organizations in Asia and other parts of the world who share the vision of accelerating clean energy development. If you or your organization seeks to support ACEF's mission and would like to become an official sponsor of ACEF, please contact the Agenda Coordinator Jason Bogovich at [jbogovich.consultant@adb.org](mailto:jbogovich.consultant@adb.org)



# ACEF 2019 SAVE THE DATES




Manila, Philippines | 17-21 JUNE, 2019

#### Participants and Speakers

Interested in attending, and possibly presenting your work and ideas at ACEF 2019? Stay tuned for our CALL FOR ABSTRACTS, which will be issued during January 2019.

#### Connect with us on:

-  [www.asiacleanenergyforum.org/](http://www.asiacleanenergyforum.org/)
-  [www.facebook.com/asiacleanenergyforum/](https://www.facebook.com/asiacleanenergyforum/)
-  [www.twitter.com/ACEF2018](https://www.twitter.com/ACEF2018)
-  [www.linkedin.com/groups/5069172/](https://www.linkedin.com/groups/5069172/)

Please contact us at:  
[acef@adb.org](mailto:acef@adb.org) for further inquiries.