

## Agenda Deep Dive Workshop

# Variable Renewable Energy (vRE) Grid Integration: Issues, Enabling Policies, and Finance Measures

ADB Asia Clean Energy Forum – 16 June 2015  
6 ADB Avenue, Mandaluyong City 1550, Metro Manila, Philippines

08:30 Registration

### Opening & Welcoming Remarks

09:00 **Mario Sander von Torklus**, Alternate Executive Director at ADB, Constituency Office for Austria, Germany, Luxembourg, Turkey and the United Kingdom  
**H.E. Thomas Ossowski**, Ambassador of the Republic of Germany to the Philippines  
**Heath Bailey**, Economic Officer, US Embassy Manila

### Session 1: Overview, Asian Experiences, and Tools for Successful vRE Grid Integration

09:10 **Outline of workshop agenda and goals**, Hendrik Meller (GIZ)

09:15 **Key note I: Challenges and key aspects of grid integration of vRE**  
Jaquelin Cochran (NREL)

**Key note II: Transformation of energy systems for high shares of vRE**  
Christoph Menke (Joint Graduate School of Energy & Environment, KMUTT, Bangkok)

**Presentations and panel discussion vRE Grid Integration in Asia – Experiences from Asian countries**

- **ASEAN region:** Sanjayan Velautham, Executive director ASEAN Centre for Energy
- **Philippines:** Rommel Reyes, National Grid Corporation Philippines
- **Thailand:** Payomsarit Sripattananon, Provincial Electricity Authority
- **India:** Sushanta K. Chatterjee, Central Electricity Regulatory Commission

Moderation by Christoph Menke

*10 min. presentations on country specific policies & regulations, best practices and challenges followed by panel discussion*

11:00 Coffee break

### Identifying country-specific grid integration solutions and introduction to the Grid Integration Toolkit and Asia Clean Energy Grid Integration Network

11:30 Group activities using grid integration “scorecard” to prioritize challenges and identify options. Facilitated by Jennifer Leisch (USAID), Jaquelin Cochran and Sam Booth (NREL)

12:30 Lunch

### Session 2 – Small Group Discussions on vRE Grid integration Policies

*Participants will join focus groups related to different policy objectives, allowing more in-depth discussion on the topic, build opportunities for regional collaboration, and identify financing approaches to complement these policies.*

**Short introduction into group work and formation of working groups** Hendrik Meller (GIZ)

14:00	<b>Group 1: Transmission Planning, including Smart Network Technologies</b>	<b>Group 2: Grid Connected PV - Technical and Regulatory Solutions</b>	<b>Group 3: Procuring RE and Flexible Generation</b>
	Chair: Paul Recknagel, GIZ	Chair: Jaquelin Cochran, NREL	Chair: Sam Booth (NREL)

- How can locations for transmission and generation be optimized?
- What is the role for regulators?
- What are cost-recovery options?
- What other infrastructure investments are required?

- What opportunities does grid-connected PV offer?
- What are some of the technical and financial challenges—for utilities, system operators, and regulators?
- How can distributed generation policies be modified to minimize grid impacts?

- How can RE incentives (e.g., feed-in tariffs) be modified to support grid integration?
- What are options for procuring flexible generation?
- What are cost recovery options for flexibility, e.g., for flexible thermal generation that is run less often?

15:15 **Reporting from the working groups**

15:30 Coffee break

### Session 3 – Panel and Plenary Discussion: Mobilizing Investments and the Way Forward

#### Panel & plenary discussion: Mobilizing investments and the way forward

Moderator: Christoph Menke (Joint Graduate School of Energy & Environment, KMUTT, Bangkok)

- 16:00
- Sanjayan Velautham, Executive director ASEAN Centre for Energy,
  - Mario Marasigan, Director Renewable Energy Management Bureau, Department of Energy, Philippines
  - Sushanta K. Chatterjee, Joint Chief of Regulatory Affairs at Central Electricity Regulatory Commission, India
  - Syah Darwin Siregar, PLN Head of New and Renewable Energy, Indonesia
  - Klas Heising, Director Technology Cooperation Sector Program, GIZ
  - Sam Booth, NREL

#### Recommendations and Closing

17:15 Sam Booth (NREL)  
Hendrik Meller (GIZ)

**Registration:** Participation is for free, however online registration to ADB ACEF is required: [www.asiacleanenergyforum.org/registration](http://www.asiacleanenergyforum.org/registration).

**Logistics:** For information on logistics please visit [www.asiacleanenergyforum.org](http://www.asiacleanenergyforum.org)

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