

Storage and other flexibility options: How to bring renewables safely into the grid

Cases from Germany and South East Asia

Thursday, 31 October 2019

Marina Bay Sands, 10 Bayfront Ave, 018956 Singapore

Driven by the rapid decrease in technological costs and greater environmental concerns, renewables, in particular wind and solar power, play an increasingly important role in power systems globally. In 2018 alone, renewable energy generation grew by 450 TWh globally.

However, wind power and PV are variable and weather-dependent, subject to forecasting error and located often far away from areas of high demand. Integrating renewables requires us to rethink the way power systems are planned and operated, in order to make ensure load is covered at all times. Discussions often focus on storage as the major solution to this challenge as the ability to store excess electricity is expected to fill the gaps when output from wind and solar energy is low.

Looking at countries where wind power and PV contribute significantly to the electricity supply, reveals a larger range of solutions to build flexibility into the grid. In Germany, wind and solar PV provide up to 75% of power demand during certain hours. Storage, as of now, plays a minor role in keeping the lights on at any time of the year.

To what extent can these learnings can be applied to the transformation of power system in emerging economies, such as in Southeast Asia, where power demand is increasing rapidly? In this roundtable, we will present two recent independent analyses that will lay out sustainable power system pathways for Indonesia and Vietnam, and address the need for suitable regulation to ensure the lights will not go out.

This event is part of the SIEW Thinktank Roundtables.

REGISTRATION

Participation at this event is free of charge. However, in order to gain access you do need a ticket for the Singapore International Energy Week (SIEW). Please visit <https://www.siew.sg/Register/Registration/Login> for further information and registration.

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Moderator: Philipp Godron , Agora Energiewende	
14:00	Welcome and introduction Philipp Godron , Senior Associate, Agora Energiewende
14:15	How renewables will drive power system growth in South-East Asia Indonesia: A Roadmap to 2030 Fabby Tumiwa , Executive Director, Institute for Essential Services Reform Vietnam: A Roadmap to 2030 Nhien Ngo , Director, VIET Vietnam Initiative for Energy Trans
14:45	The integration of high shares of RE in SEA: lessons learned and outlook Simon Rolland , Programme Director, GIZ
15:00	Questions and discussion
15:30	Tea break
16:00	How to deal with the flexibility challenge: The current and future role of storage Philipp Godron , Senior Associate, Agora Energiewende Experiences from Germany and Europe Dimitri Pescia , Senior Associate, Agora Energiewende
16:30	Discussion: How can policy makers make sure the lights will not go out?
17:00	Adjourn