

Power Grid Planning and Operation with Growing Shares of Wind and Solar Electricity: Challenges and Solutions for Policy Makers

A deep-dive workshop for thought leaders and practitioners

Thursday, 11 April 2019, 9:00am – 12:30pm

Location: Silent Green Kulturquartier (Kuppelhalle)
Gerichtstraße 35, 13347 Berlin (Wedding)

Electricity generation from wind power and solar photovoltaic depends on the weather. In order to keep the system stable despite real-time variability, power demand must always match power supply. The grid is the key tool that we have at hands to guarantee system reliability and ensure cost-effectiveness of power systems.

However, operating the grid with increasing shares of variable, weather-dependent electricity poses some challenges. In fact, future grid operation requires different skills, new methods and – at least at higher shares of wind and solar electricity – new technologies. Furthermore, new challenges in planning and operation arise not only from variability. Wind and solar resources are not always located where demand is, and generation becomes much more modular, moving away from the traditional pattern of large-scale thermal generation. A high share of vRES makes the coordination and connection of power generation and demand an increasingly complicated task for planners and operators.

In this workshop, we will discuss challenges, experiences, and new approaches for safely and efficiently integrating wind and solar into power systems. Input will be provided by experts from think tanks, a TSO and a network operation technology provider.

PARTICIPATION / TARGET GROUP

In order to register for the workshop kindly send an e-mail to events@agora-energiewende.de indicating your interest.

Please keep in mind that the number of seats is limited and that the workshop targets representatives of thought leaders and practitioners.

PROGRAMME

8:30	Registration and coffee
9:00	Welcome and introduction: Future trends and challenges Philipp Godron , Senior Associate, Agora Energiewende
9:15	Successfully planning modern grids: Making best use of existing lines, streamlining planning procedures and increasing acceptance Stephanie Ropenus , Senior Associate, Agora Energiewende
09:45	Discussion
10:15	Adopting operation: Redispatch and curtailment to manage grid integration Johannes Henkel , Head of Energy Market Development, 50 Hertz
10:35	Adopting operation: Novel ways of increasing the utilization of existing infrastructure Jochen Kreusel , Market Innovation Manager Power Grids Division, ABB
11:00	Discussion
11:30	Coffee break
11:45	Is stability at stake? How the Japanese island systems can deal with high share of wind and solar Shota Ichimura , Senior Researcher, Renewable Energy Institute (Japan) Dimitri Pescia , Senior Associate, Agora Energiewende
12:15	Discussion
12:30	Lunch snack

CONTACT

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MORE INFORMATION

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