
System stability in a renewables-based power system

Thursday, 21 November 2024, 10:00–11:30 (CET)

Webinar (Zoom)

As demand for electricity grows, ensuring a reliable power supply for households and industries is a critical task. Power systems need to generate, transmit and distribute electricity in a stable manner under all conditions.

With the clean energy transition, wind, solar and batteries gradually replace fossil-based power plants. Renewables-based generation, which is connected non-synchronously via inverters, can provide voltage related system services, but it is more complex for them to provide frequency related services. An essential question in the energy transition debate is thus how such “system services” can be provided most efficiently in the future.

To facilitate well-informed decisions, we commissioned Moeller & Poeller Engineering to carry out a study on the technical aspects of the provision of system services.

In this webinar, we explain the elements of system stability, system services and technologies providing those services. We will further describe different strategies, such as carrying out market-based tenders or setting connection requirements to ensure sufficient system service capacity in renewables-based power systems. Findings of the study will be discussed with experts from system operators, the wind, gas turbines and battery industry.

Registration

The participation in the Live-Stream via Zoom is free of charge. Further information including the registration link can be found on our website:

<https://www.agora-energiewende.org/news-events/system-stability-in-a-renewables-based-power-system>

Recording

The Webinar will be recorded and the recording published shortly after the event.

Programme

- 10:00** **Welcome & introduction**
Emeline Spire, Director Europe, Agora Energiewende
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- 10:05** **System stability in a renewables-based power systems**
Markus Poeller, Moeller & Poeller Engineering (M.P.E.)
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- 10:30** **Key findings**
Alexander Dusolt, Senior Associate, Agora Energiewende
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- 10:35** **Panel Discussion**
Moderation: Alexander Dusolt, Senior Associate, Agora Energiewende
Shurooque Baloch, National Energy System Operator (NESO)
Annette Jantzen, Eugene
Inga Skrypalle, Vestas/Eurelectric,
Benjamin Braun, Fluence
Johannes von Schkopp, TenneT
Markus Poeller, M.P.E.
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- 11:10** **Q&A Session**
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- 11:25** **Wrap up**
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- 11:30** **End of webinar**
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