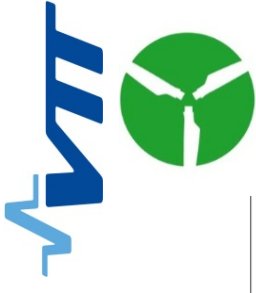


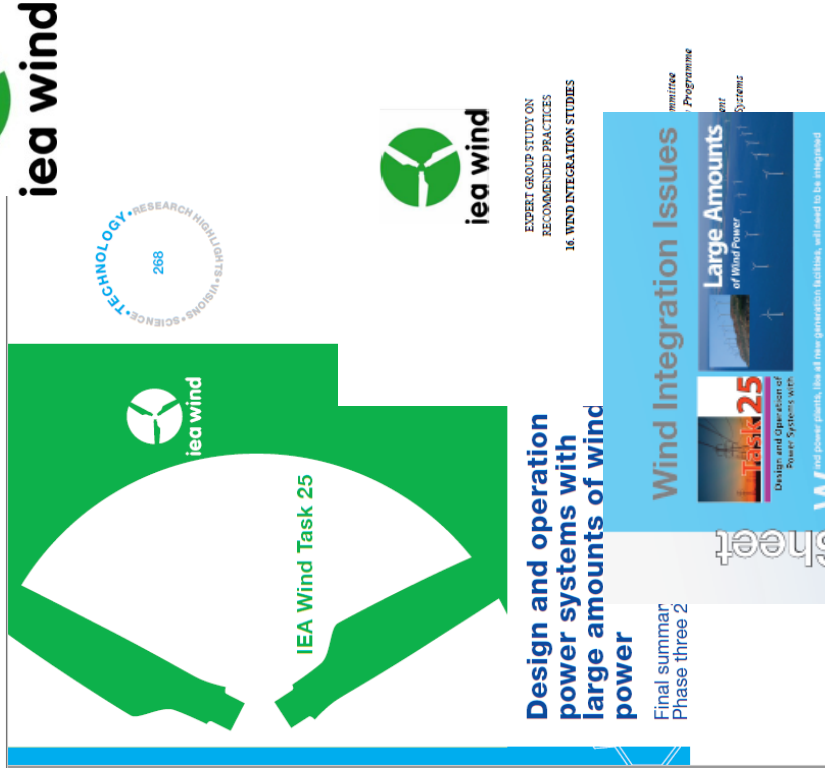


IEA Wind Task 25 – Best practice of wind integration



- How wind power impacts operation of power system, generation adequacy, grid adequacy
- Expert group from research and TSOs 17 countries + WindEurope since 2006
- State-of-the-art: review and analyze the results so far: latest report June 2016
- Formulate guidelines: Recommended Practices for Integration Studies in 2013, **update to wind and PV in 2018**
- Fact sheets and wind power production time series

<https://community.ieawind.org/task25>



Design and operation power systems with large amounts of wind power

Final summary Phase three 2

Wind Integration Issues

Task 25
Design and Operation of Power Systems with Large Amounts of Wind Power

Wind power plants, like all new generation facilities, will need to be integrated into the power system. This requires attention to the variability and uncertainty of wind power production.

How is wind power different from other generations?

The main characteristic that distinguishes wind from other generations is its variability and uncertainty.

- Connected power plants generate a constant power output, whereas wind power is variable. There are a variety of methods to manage the variability and uncertainty of wind power production.
- Wind power uncertainty will become more significant as the amount of wind power increases.
- The variability and uncertainty of wind power will become more significant as the amount of wind power increases.

How do operations planning and scheduling differ from other generations?

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