Velkommen til... Welcome to... Willkommen zu...

Energistyrelsen Danish Energy Agency Agency

DTU

Danish Meets German Energy Transition

Lars Brømsøe Termansen Stephanie Ropenus

26TH MAY 2016 IN COPENHAGEN





Lessons Learned and Energy Transitions...

Denmark – den grønne omstilling

- Objective: Energy system independent from fossil fuels by 2050 (across all sectors).
- → Wind energy expected to cover 53%-59% of electricity consumption by 2020 (in 2015: 42%).

Germany – *die Energiewende*

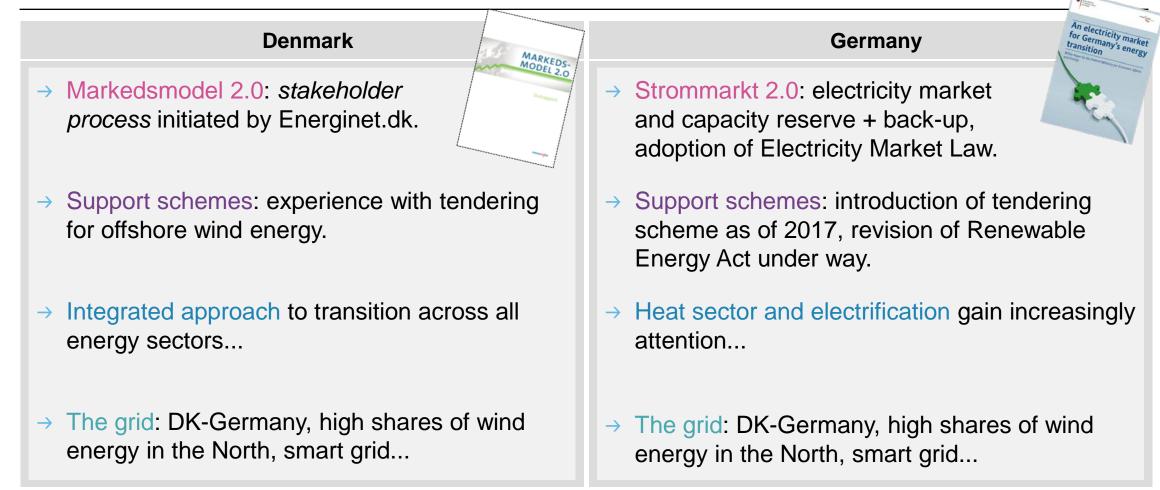
- → Objective: More than 80% renewables in electricity consumption by 2050.
- → 40-45% renewable share in electricity consumption by 2025.
- → Transition from a fossil fuel-based towards a renewable energy based system with increasing shares of variable renewable generation.
 → Transition from a fossil fuel-based towards a renewable energy based system with increasing shares of variable renewable generation.
- Strong integration with the heating sector (CHP), role of wind & biomass.

 \rightarrow Wind and solar PV as main pillars.





Common challenges, similar questions – just a few examples...







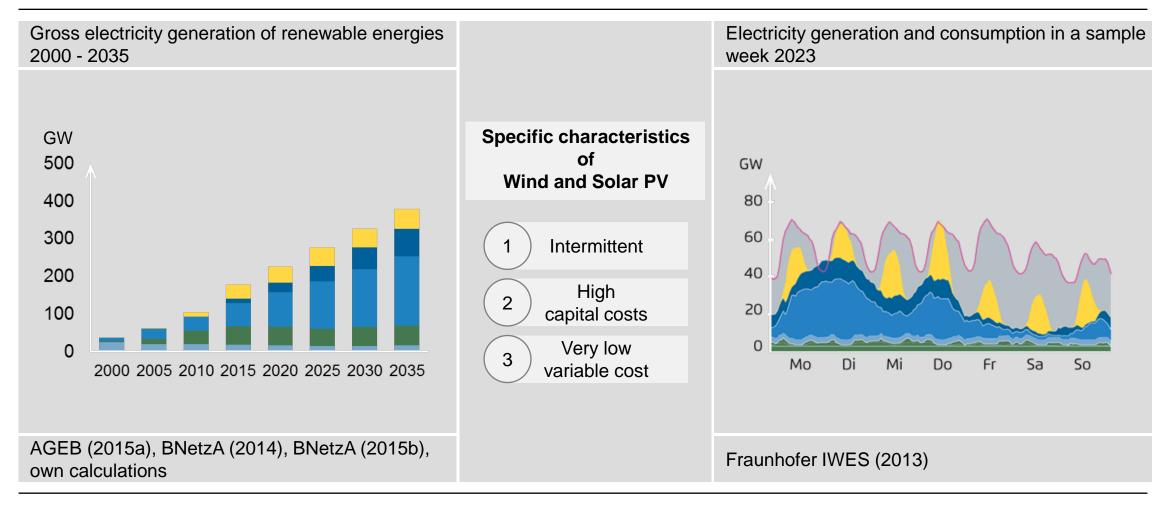
Agora Energiewende's "Lessons Learned from Denmark"- series

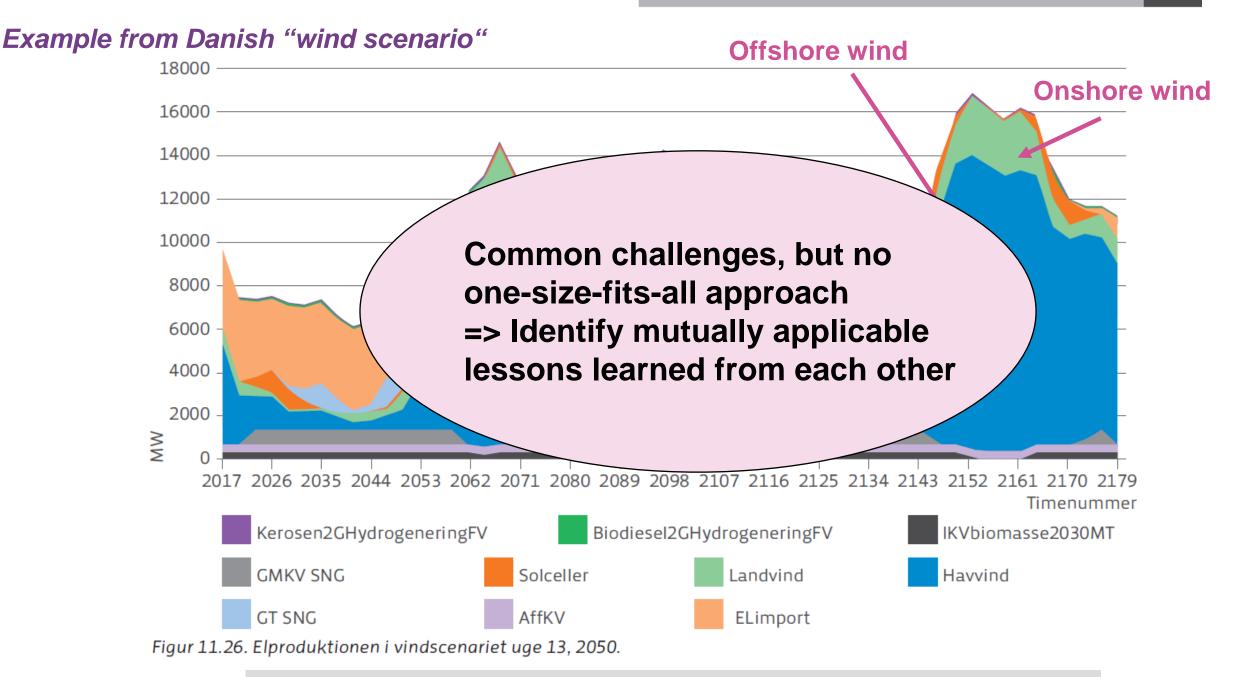




Energiewende: With wind and solar, the new power system will be based on two technologies that completely change the picture.







ENS (2014), Energiscenarier frem mod 2020, 2035 og 2050. p. 81.



Agenda

1) Welcome and Introduction

Stephanie Ropenus, Agora Energiewende & Lars Brømsøe Termansen, Energistyrelsen

- 2) Recent Developments in German and Danish Energy Policy Where Are We Heading?
 - Peter Menck, Federal Ministry for Economic Affairs and Energy
 - Edward James-Smith, Energistyrelsen (Danish Energy Agency)

12:30 – 13:15 Lunch break

3) Across the Borders: Interconnectors and Integration of Wind Energy

- Jonas Kraeusel, 50Hertz Transmission GmbH
- Bjarne Brendstrup, Energinet.dk
- Comments by Anders Kofoed-Wiuff, Ea Energy Analysis



Agenda







14:30 – 14:45 Coffee break

4) Renewables Across Borders: Auctions in Denmark and Germany

- ✤ Fabian Joas, German Federal Ministry for Economic Affairs and Energy, GIZ
- Rasmus Zink Sørensen, Energistyrelsen (Danish Energy Agency)
- Chaired by Lena Kitzing, DTU Management Engineering

16:00 End of Event



Mange tak – *Vielen Dank* - *Many thanks* to our cooperation partners for this event:

Energistyrelsen (Lars Brømsøe Termansen, Edward James-Smith, Rasmus Zink Sørensen)

- **DTU Management Engineering** (Lena Kitzing, Klaus Skytte, Henrik Klinge Jacobsen)
- Ea Energy Analysis (Anders Kofoed-Wiuff)







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Tusind tak for jeres opmærksomhed!

Thank you for your attention!

Questions or Comments? Feel free to contact me: stephanie.ropenus@agora-energiewende.de

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