

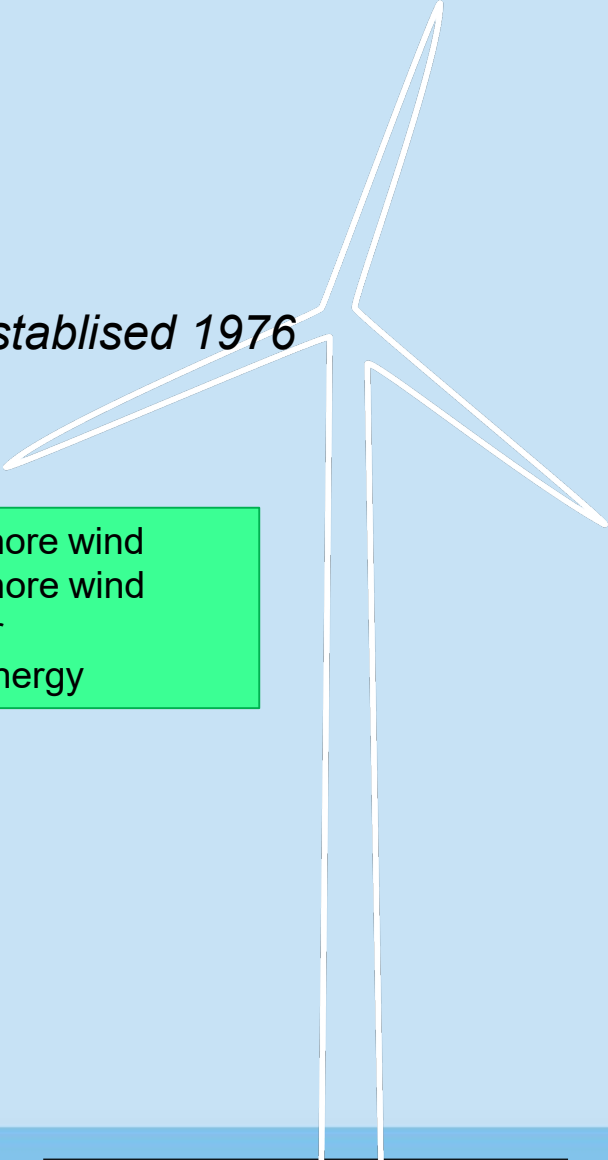
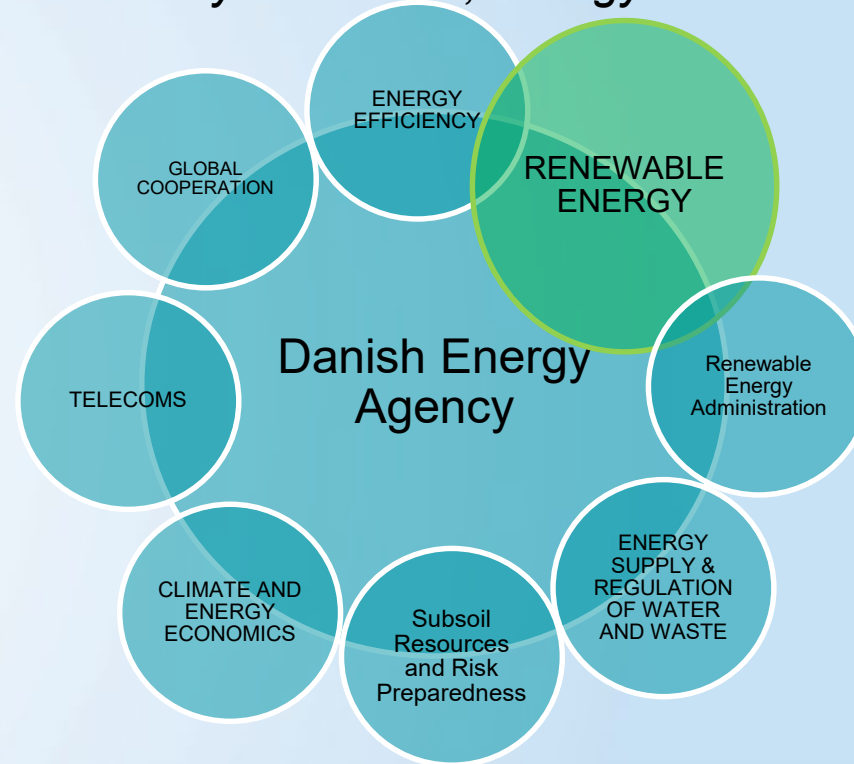
# Market Dialogue on Thor Offshore Wind Farm

Director General Kristoffer Böttzauw  
Danish Energy Agency,  
Copenhagen, 25 Nov 2019



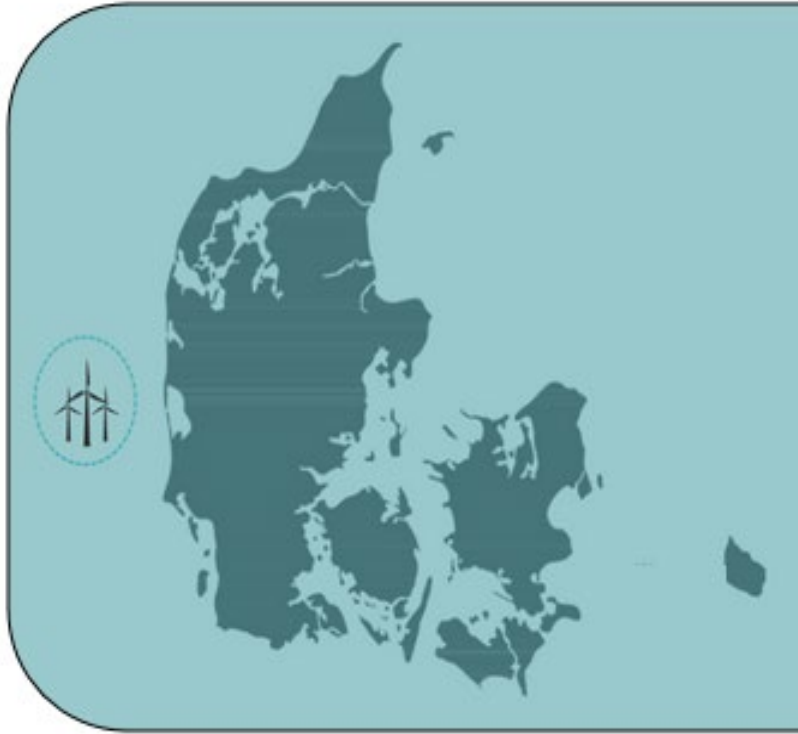
# The Danish Energy Agency (DEA)

*An agency under the Ministry of Climate, Energy and Utilities – established 1976*



Offshore wind  
Onshore wind  
Solar  
Bioenergy

# The Danish Energy Agreement of 2018



## A 10 year plan (2020-2030)

- *Based on broad political support (9 out of 10 parties)*

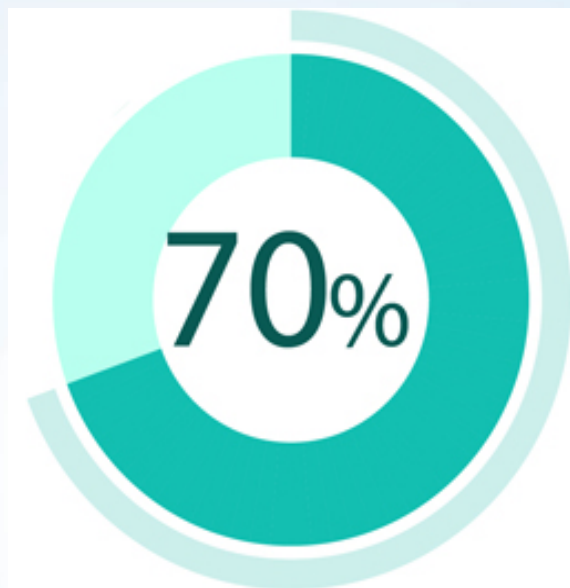
## Policy targets

- 55 % renewable energy in 2030
- Net zero CO2 emissions by 2050
- Min. 2,400 MW offshore wind by 2030 (Thor 1<sup>st</sup> OWF)

## Principles of the Agreement

- The Market shall as far as possible facilitate the green transition
- The ambition is, within a few years, to be able to generate green electricity without state subsidies,
- Electricity will be the dominant source of energy

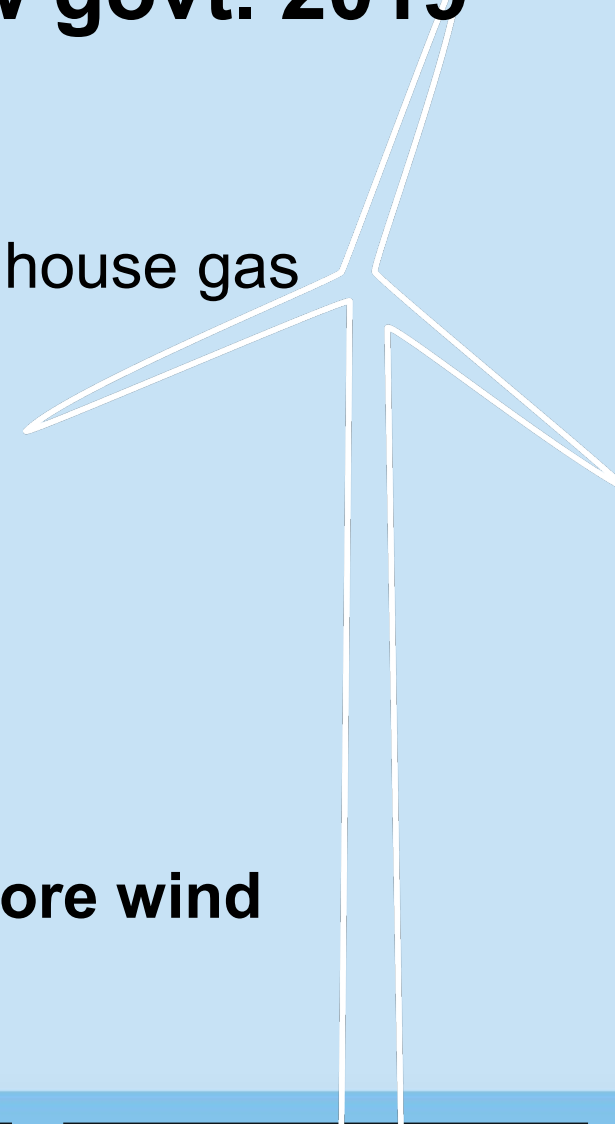
# Additional policy framework, new govt. 2019



A target of reducing national greenhouse gas emissions in 2030 by 70%

Focus:

- Energy
- Transport
- Agriculture
- **Energy island for 10 GW offshore wind**



# Danish offshore wind track record



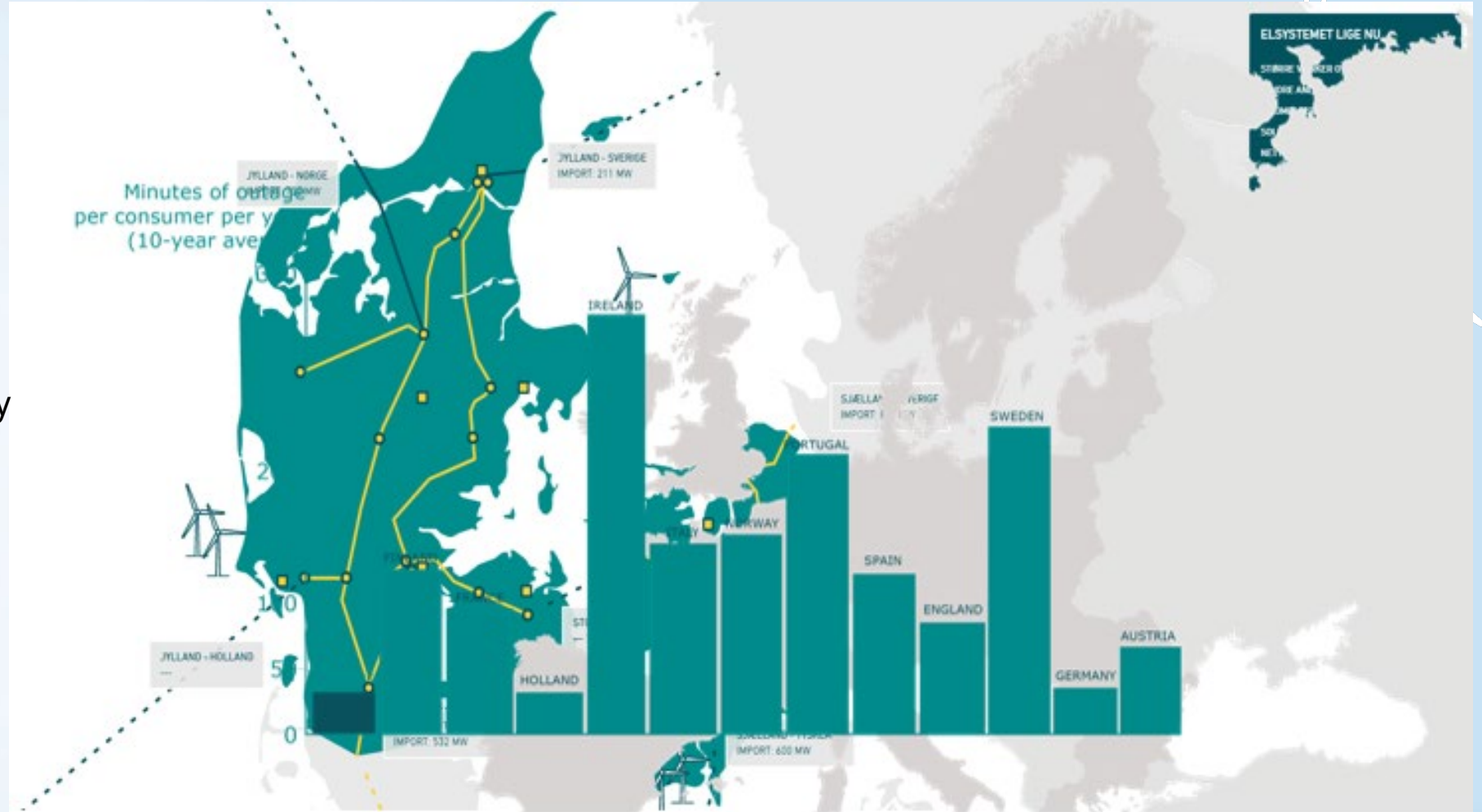
## Timeline for offshore wind farms in Denmark (> 100 MW)

- 2002:** Horns Rev 1 – 160 MW
- 2003:** Nysted (Rødsand) 165 MW
- 2009:** Horn Rev 2 – 209 MW
- 2010:** Rødsand 2 – 207 MW
- 2012:** Anholt - 400 MW
- 2019:** Horns Rev 3 – 400 MW
- 2021:** Kriegers Flak – 600 MW, interconnector DK/DE
- 2023:** Vesterhav Nord & Syd – 350 MW, nearshore
- 2027:** Thor Offshore Wind Farm – 800 – 1,000 MW
- 2030:** 2 x min. 800 MW in the pipeline...



# A flexible and integrated energy system

- 43 % wind power in the electrical system
- 99,996 % security of supply



# The Danish Tender Model for Offshore Wind



Broad long-term political commitment	Price is the primary award criteria
One Stop Shop	Support will be granted as a CfD for a period of 20 years
TSO does preliminary studies	Efficient and transparent electricity market
Dialogue and negotiation with prequalified bidders	Guaranteed access to the grid



Thank You For Your  
Attention!

Read more at: <https://www.ens.dk/thor>