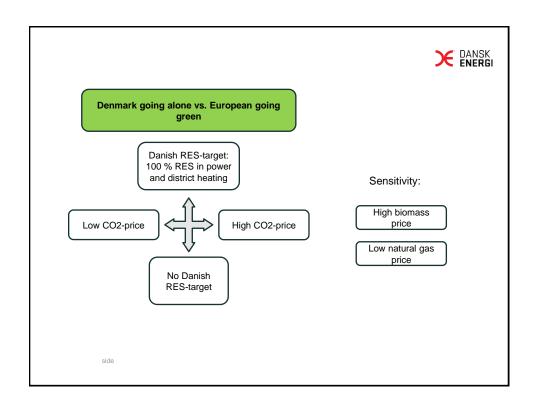


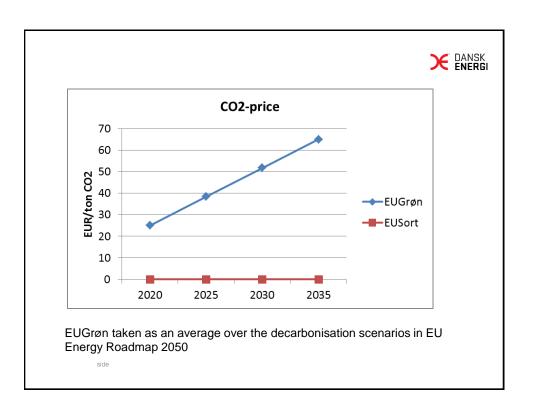
## The energy policy milestones of the Danish government (Vores Energi 2012)

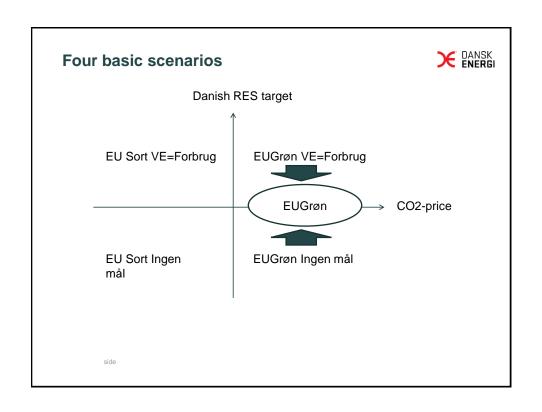


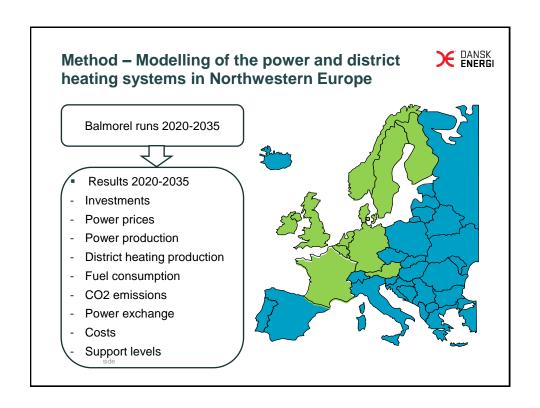
2020	2030	2035	2050
Wind power covers 50% of electricity consumption	No coal in Danish power plants No individual oil heating boilers	Power and heat supply covered by renewable energy	Power, heat, industry and transport covered by renewable energy

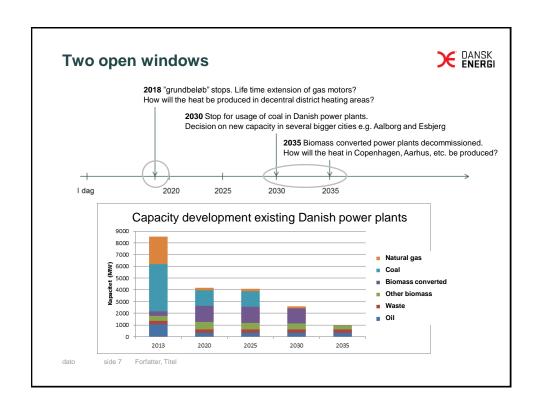
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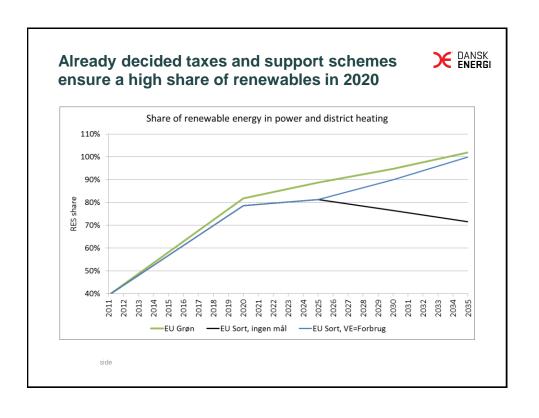










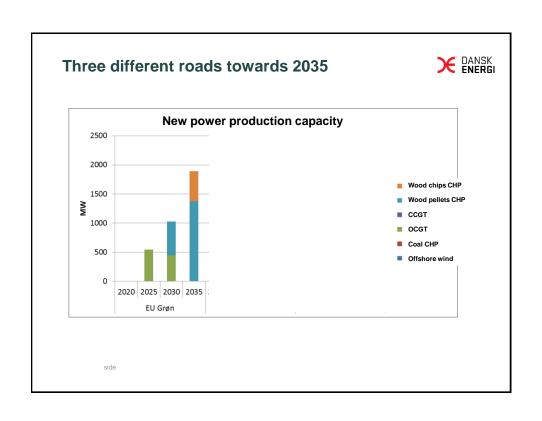


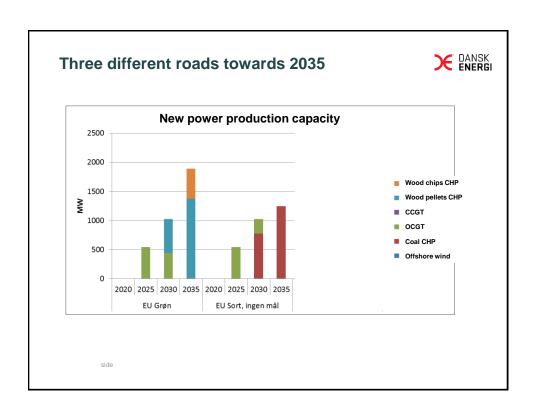
## First open window – heat supply in decentral district heating areas

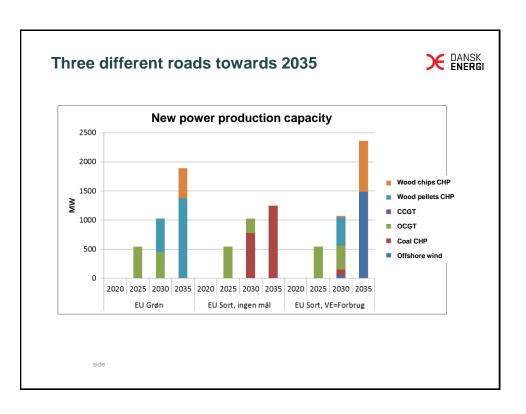


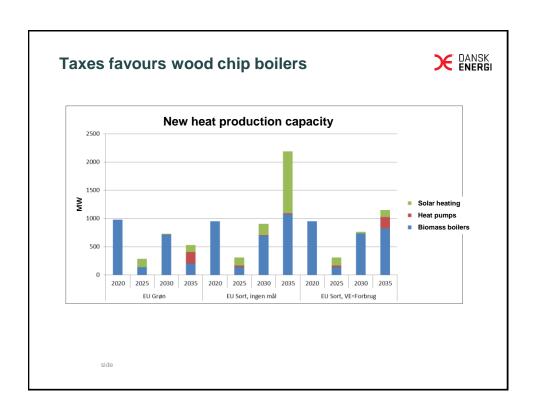
- Decentral natural gas fired CHP plants are not producing
- If usage of biomass in heat boilers allowed:
  - Investment in wood chip boilers
- If not allowed to use biomass heat boilers:
  - Investment in heat pumps
- If present taxes and support is removed:
  - Natural gas boilers later replaced by wood chip boilers
- If capacity payment exists in 2020:
  - Lifetime extension of decentral natural gas CHP
    - Used as peak power

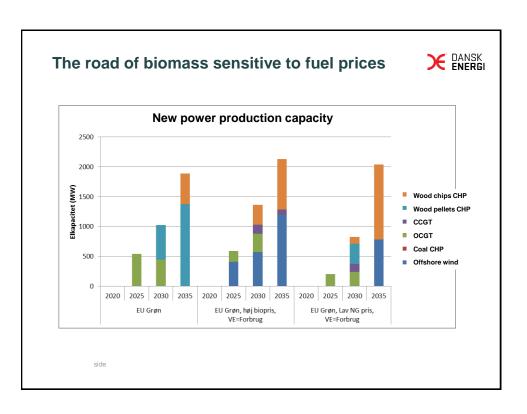
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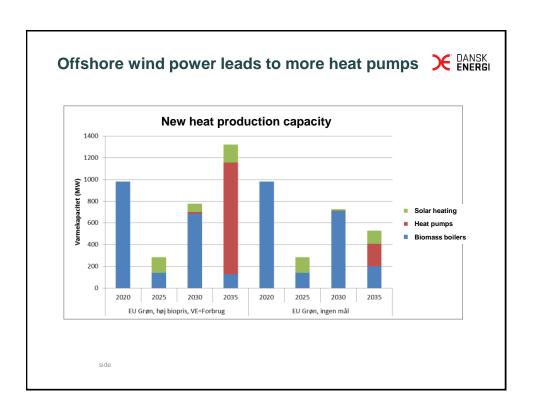












## **Conclusions**



- A continuation of the present energy tax and support system is crucial for the choice of technologies and ensures in itself a high RES share
- The choices between building new wood pellet CHP or offshore wind power after
  2030 are sensitive towards changes in fuel prices of wood pellets and natural gas
- Decentral natural gas fired CHP plants require a capacity payment to stay operational

side