



Electric Vehicles

Policies and Status in Denmark

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**DANSK
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Agenda

- Who is DEA
- Danish Energy Policy
- Danish policy for electric cars
- Status of electric cars
- Infrastructure Status
- Status of projects



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DANISH EV ALLIANCE

- ❑ Danish EV Alliance is a trade association
- ❑ We connect the whole value chain from energy companies to the automobile industry
- ❑ The aim is to create the best framework conditions for electric and plug-in hybrid vehicles as the future transport solution
- ❑ The goal is to reach 10 pct. of new sale in 2020, and ½ - 1 mio electric cars in 2030



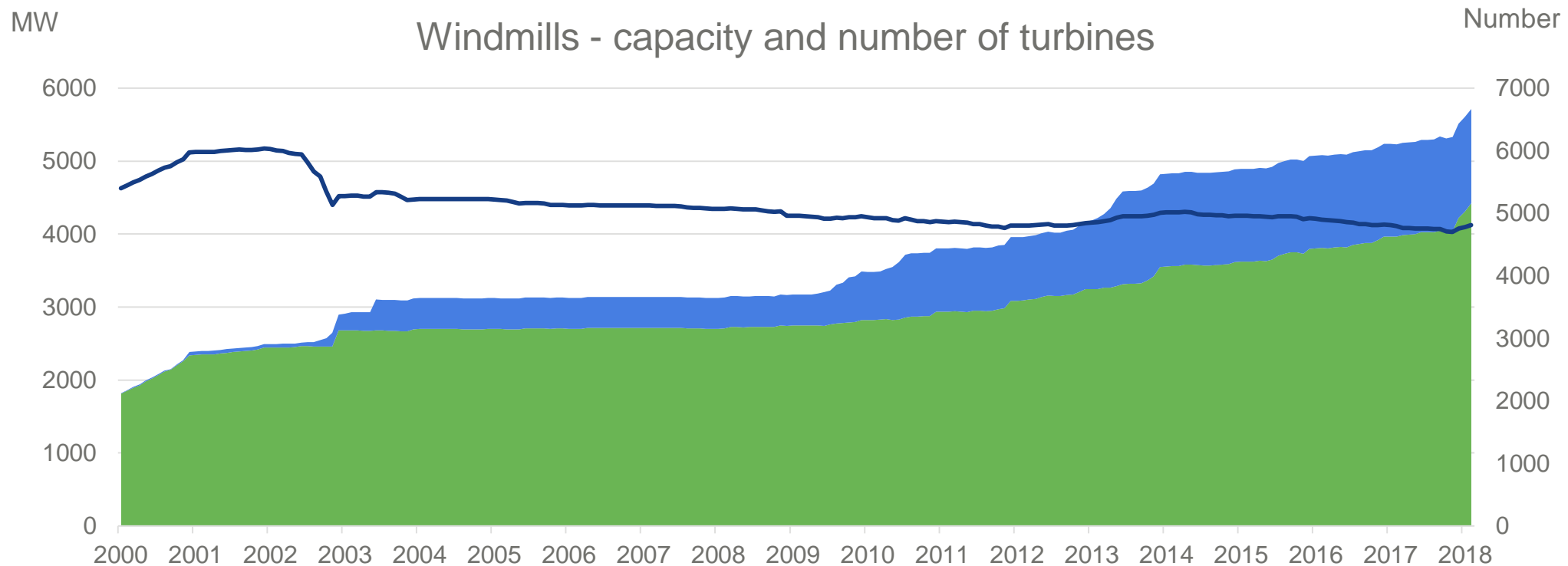
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Danish Energy policy



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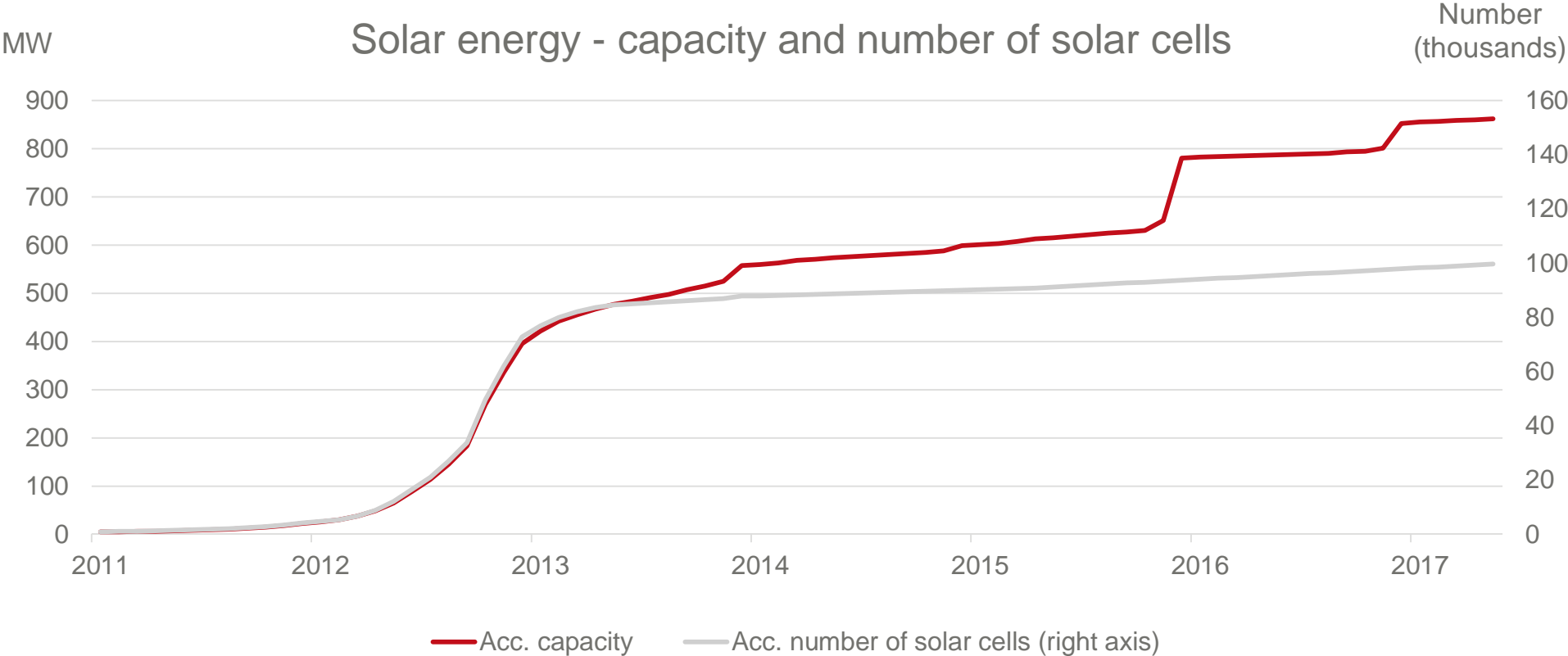
Windenergy in Denmark



Source: Danish Energy Agency

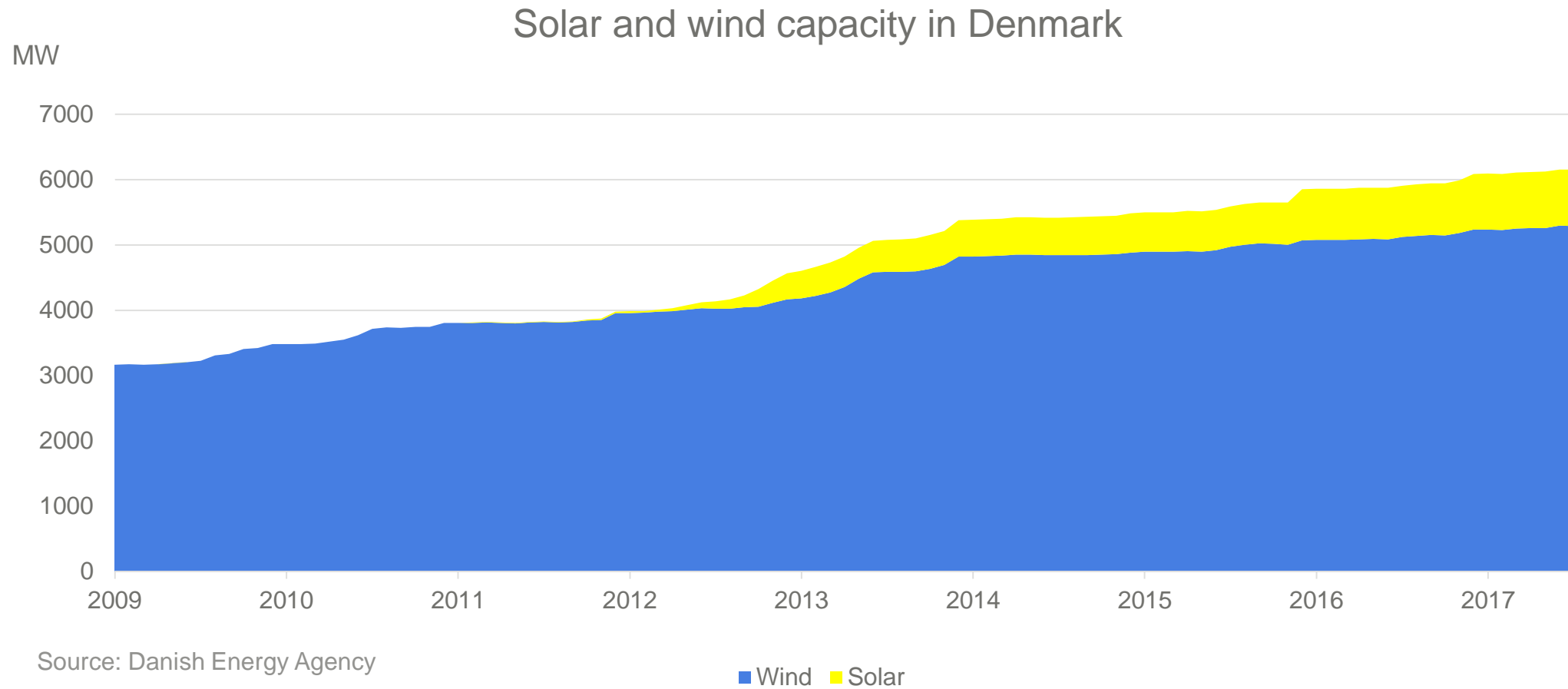
Onshore Offshore Number of turbines

Solar energy in Denmark

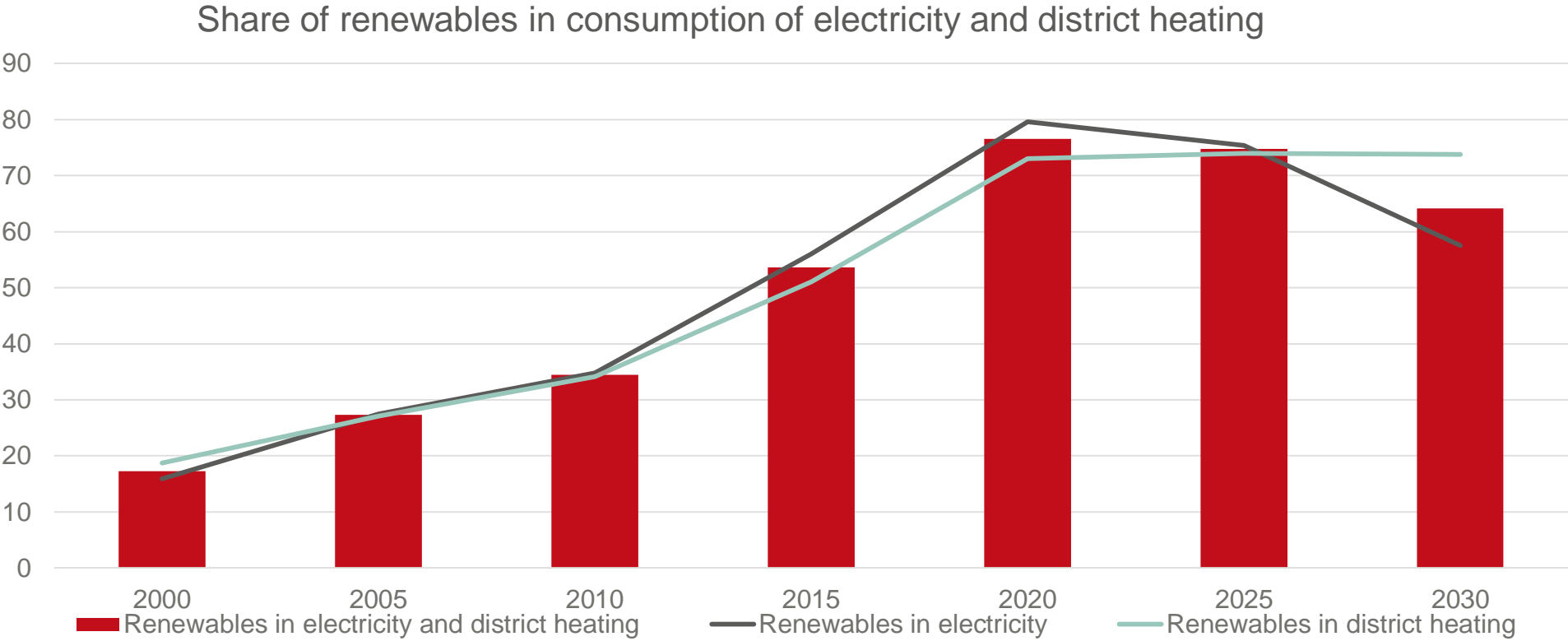


Source: Danish Energy Agency

Solar and wind capacity in Denmark



Share of renewable in consumption



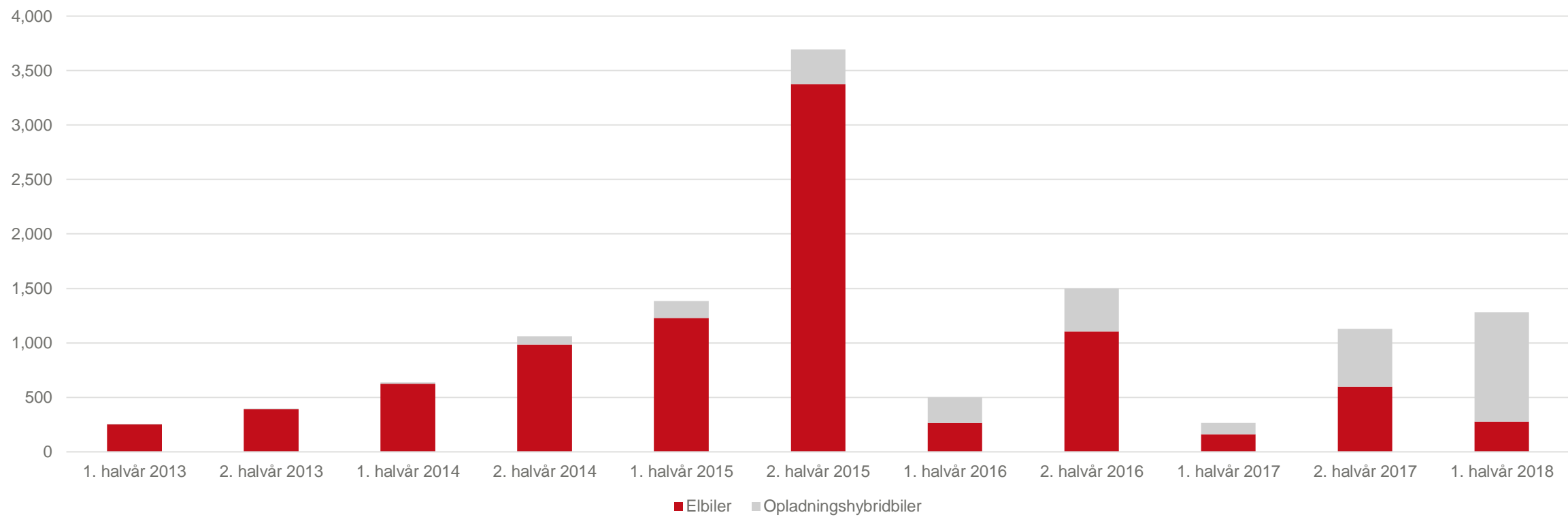
Source: Danish Energy Agency

New Danish energy agreement in 2018 must provide at least three goals

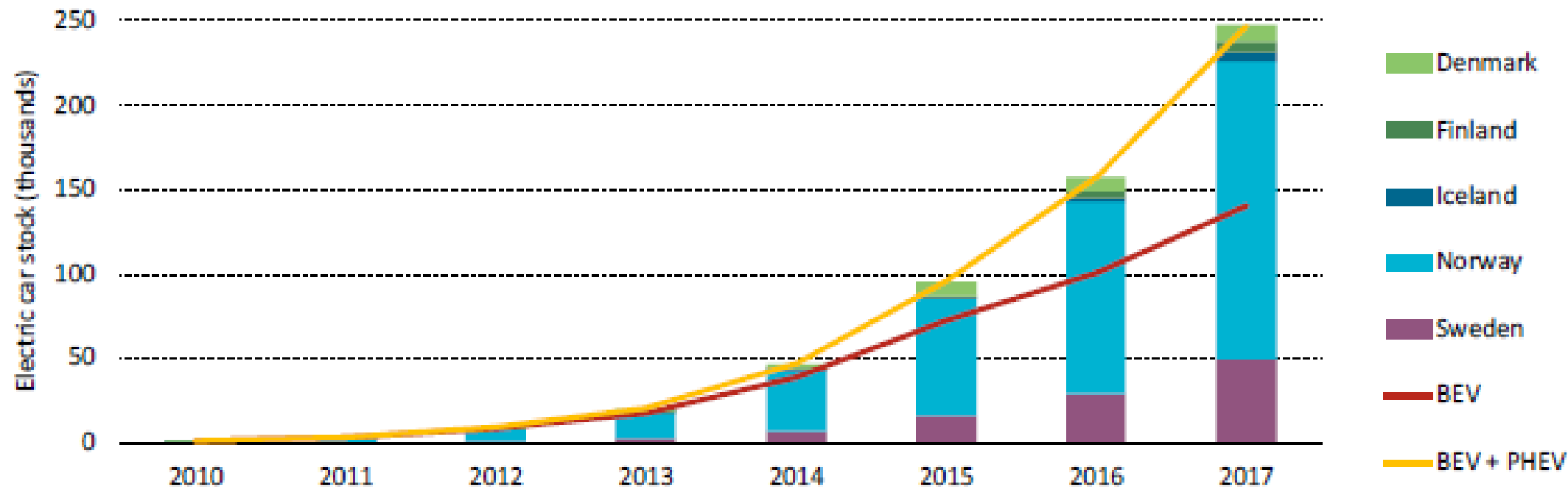
□ The energy agreement must meet three goals:

1. Government's goal that at least 50% of Denmark's total energy consumption comes from renewable energy in 2030.
2. The EU requirement that Denmark should reduce its greenhouse gas emissions by 39% in sectors not covered by the EU quota market in 2030 (ift. 2005), ie. in transport, agriculture and housing.
3. The EU's goal of annual efficiency of energy consumption, equivalent to 1.5% of total energy consumption.

BEV market in Denmark



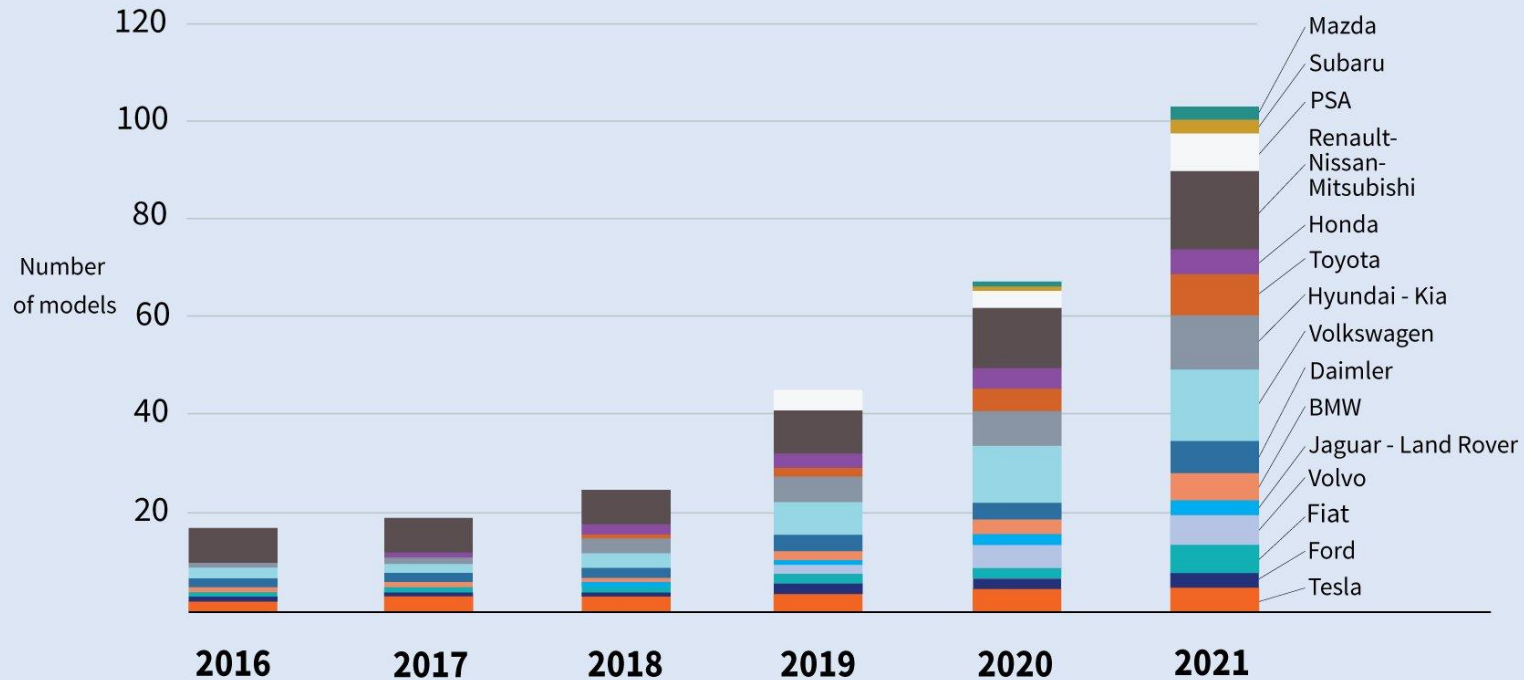
Stock of electric cars and charging hybrid cars close to 250,000 in the north



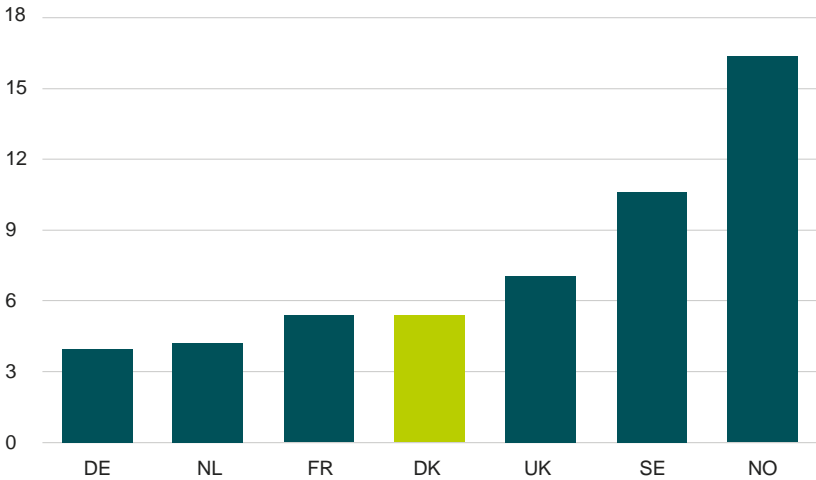
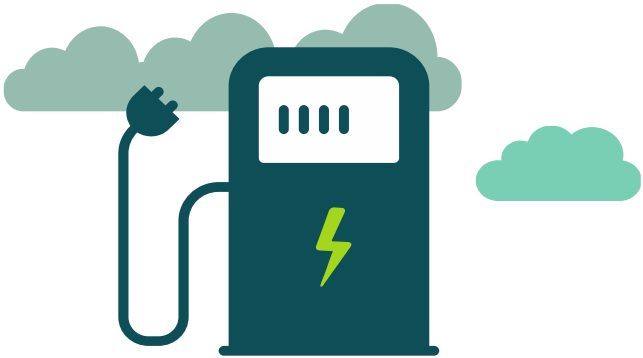
Kilde: IEA, Nordic EV Outlook 2018

Rising range of car models

Battery electric models on the market are expected to increase five-fold by 2021



Charging infrastructure



NEW political incentives on BEV on the way



BEV and the challenges for the grid



New project on large scale electrical vehicle integration - ACES



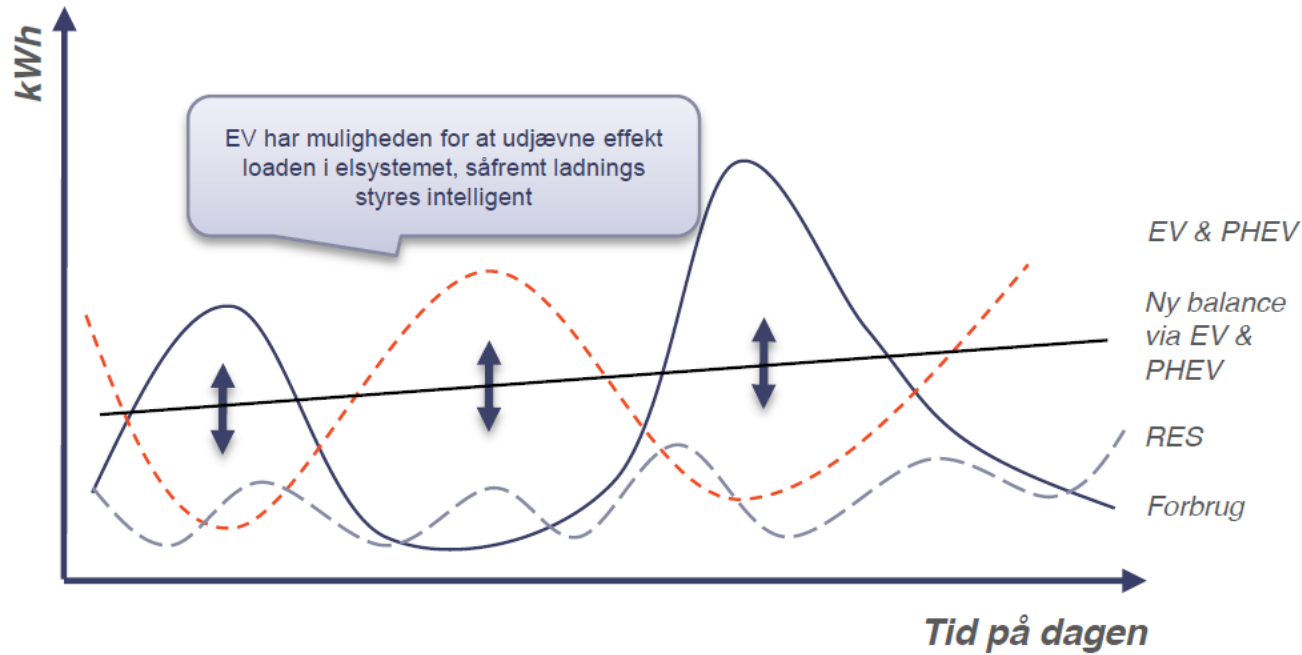
PARKER project – V2G



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Consumption curves by V-2-G

- Balancering af forbrug vha. EV & PHEV-



GREAT project – large scale market for alternative fuels



**Thank you for
your attention**

