

100% Renewables 2040

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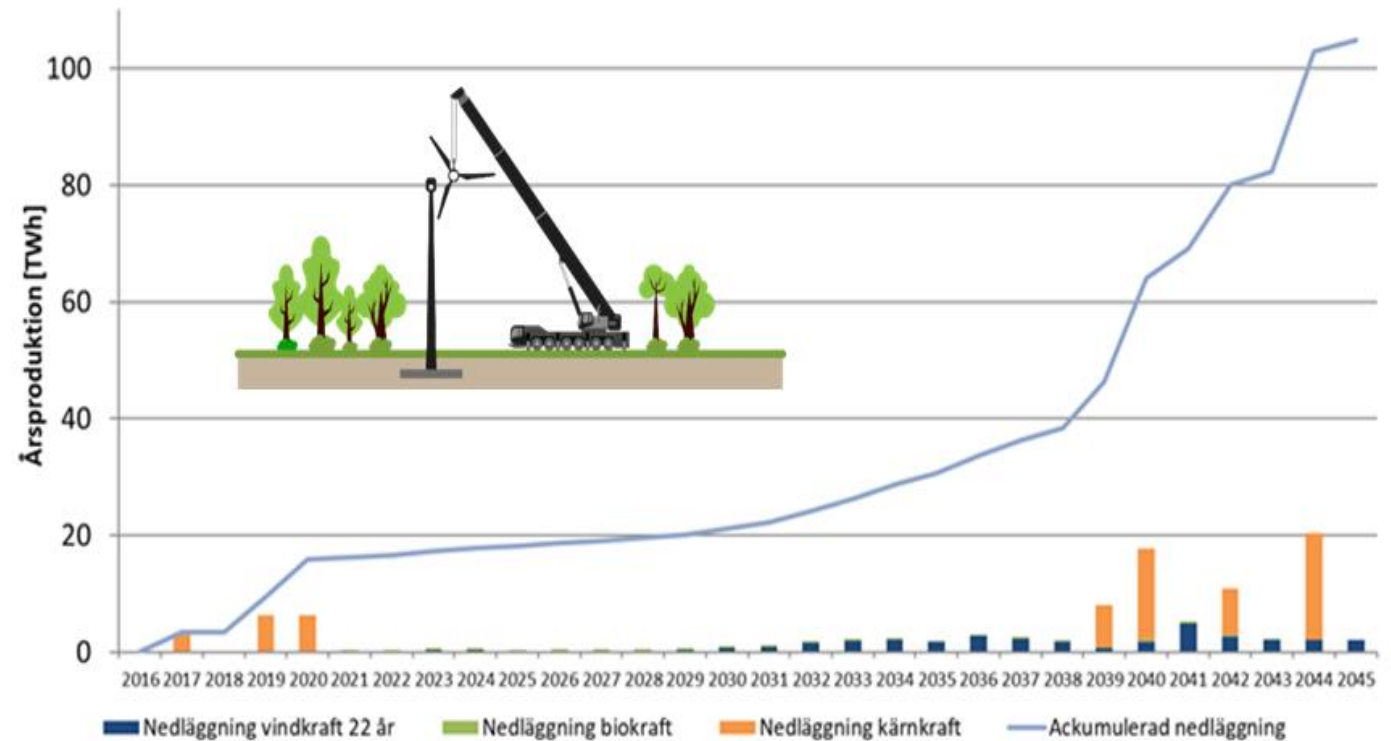
Political agreement to go for 100% renewables

SEA:s report about possibilities/challenges

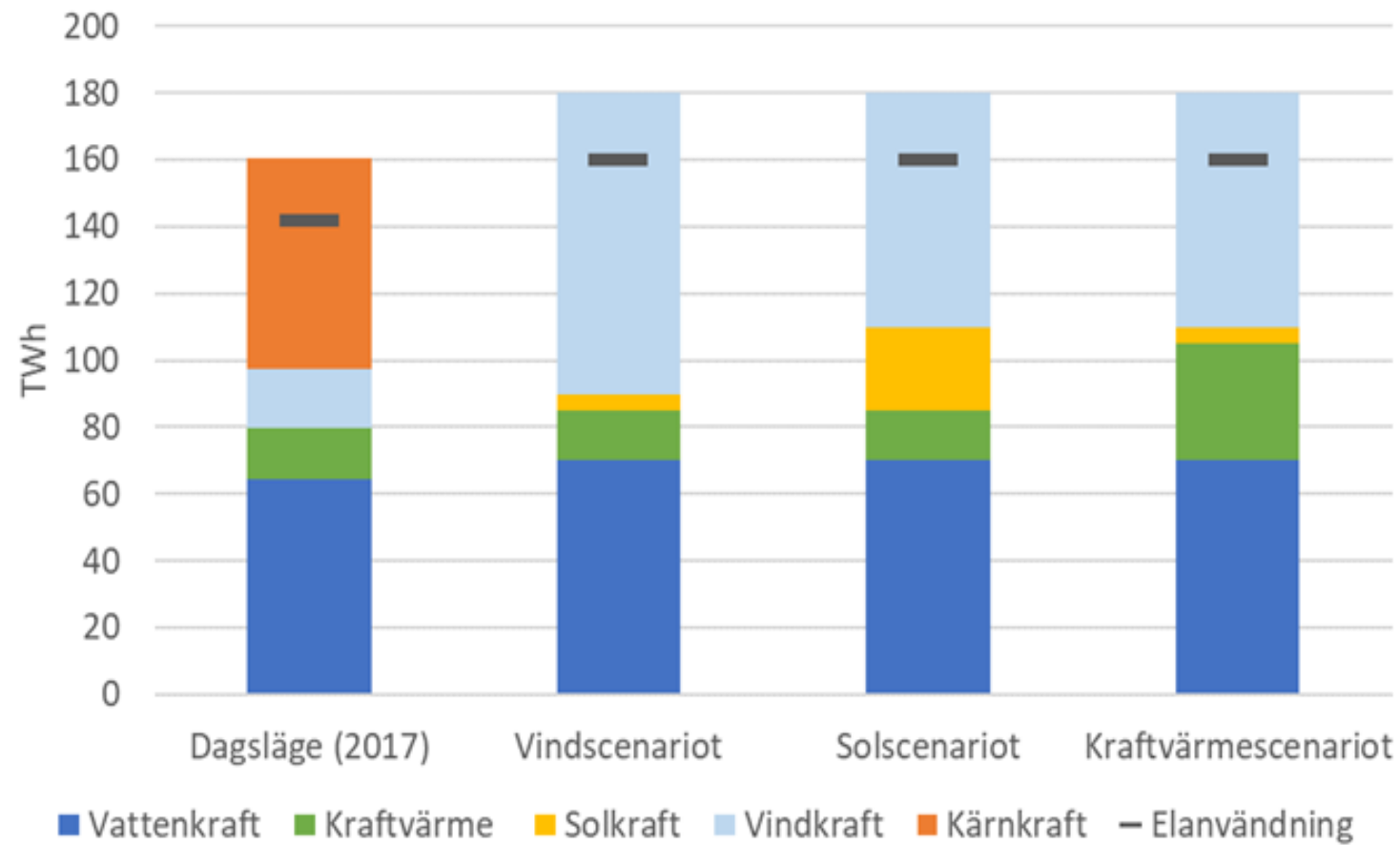
- Sweden part of a nordic electricity market
- Green certificate system in place since 2003
- No political nuclear phase out
- Hydropower the backbone of the system
- Carbon pricing one driving force for the transition – EU ETS

Big trends in the transition to renewables up to 2040

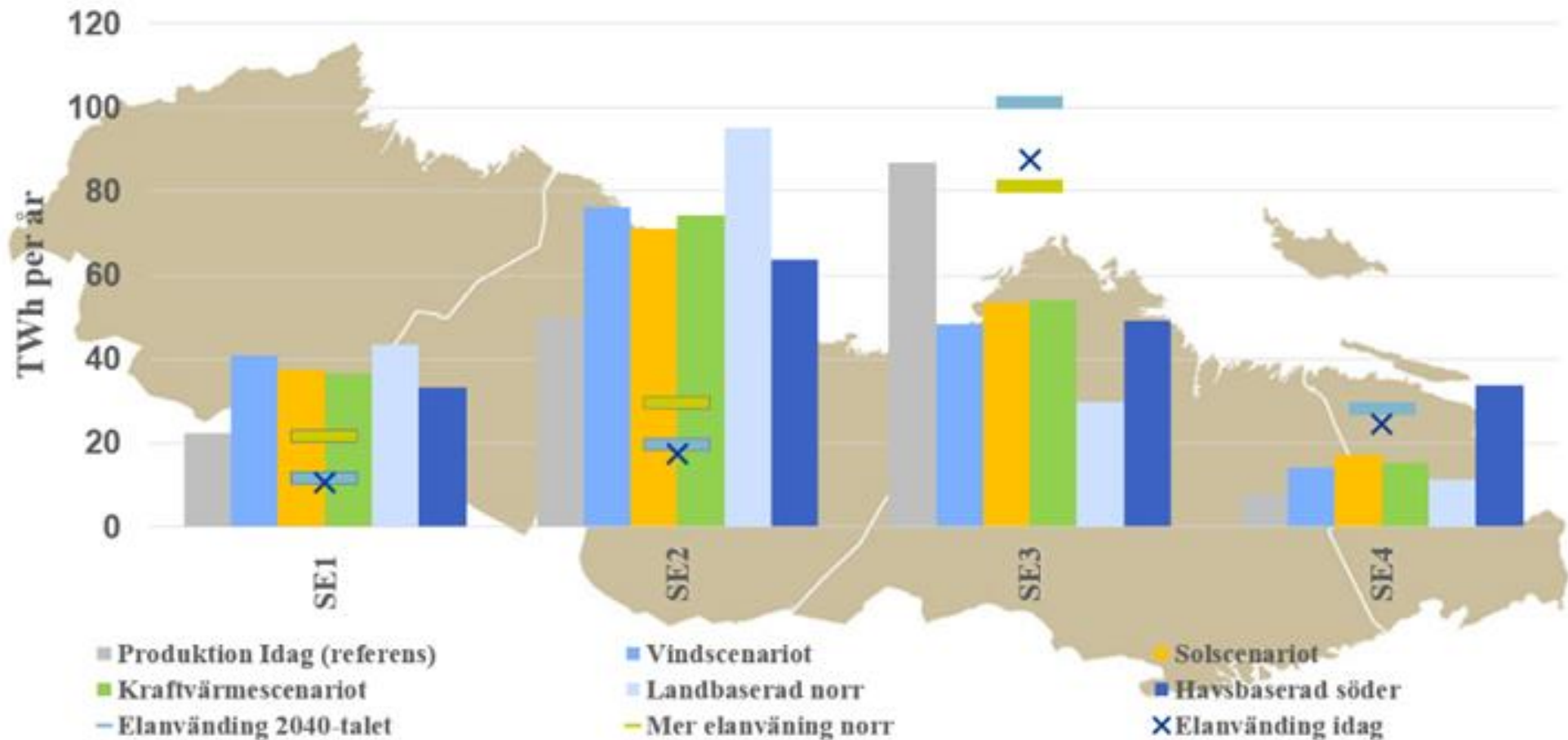
- Replacement of ca *100 TWh*
- New electricity dominated by variable power
- Electricity expanding to new sectors resulting in increasing electricity consumption
- Need for grid



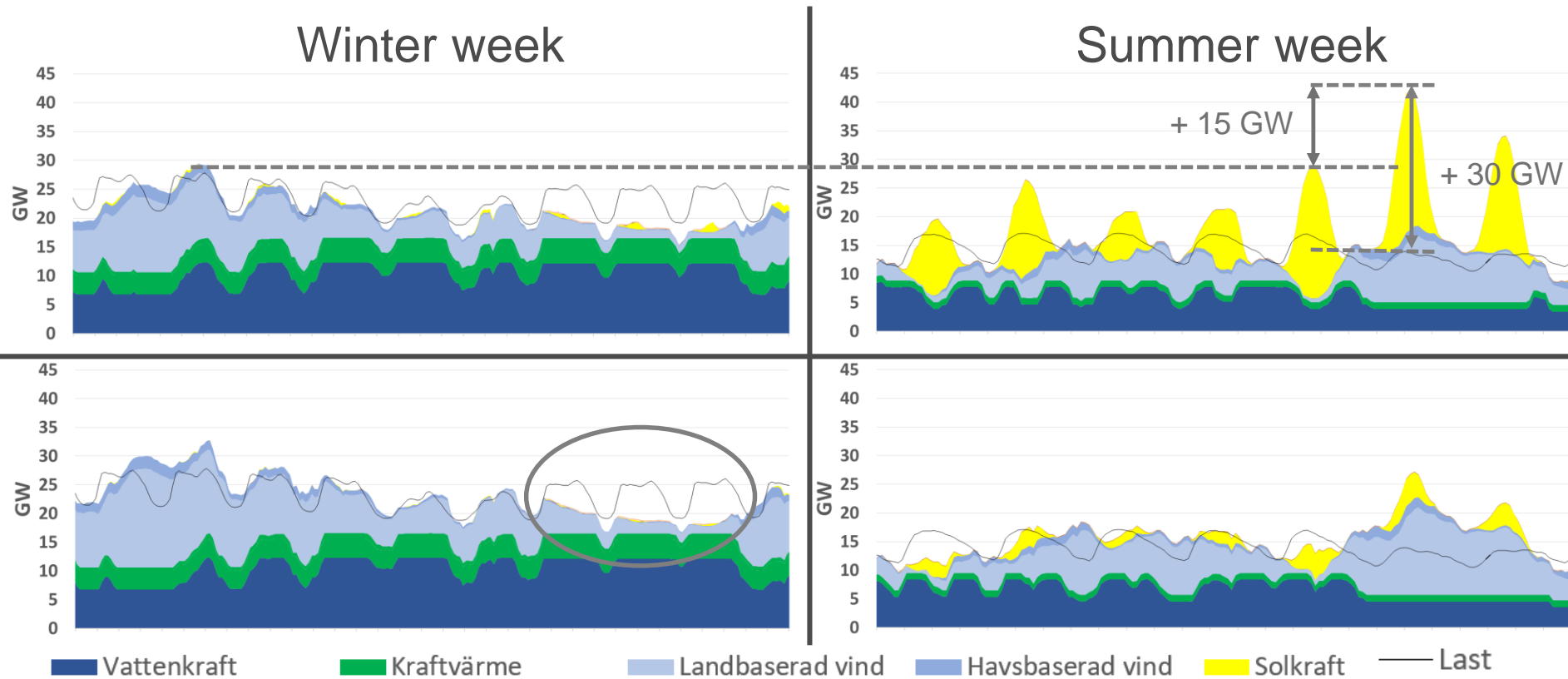
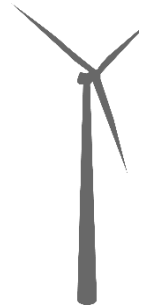
Main scenarios in our report



Big difference in geographical distribution of production



Increasing need for flexibility



Proposals for action from SEA

- Create a *road map* for 100% renewables
- Analyze planning/rules regarding *development of the grid*
- Follow up on *market design of the energy markets*
- *Permitting process* for renewables – especially wind

Proposals for action from SEA

- Investigate a *moratorium for fossil fuels in electricity*
- Coordinate the national policy for *electrification*
- Continue to support *new technology*
- *Cooperation* with neighbouring countries to create the best preconditions for the change

Thanks!

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