

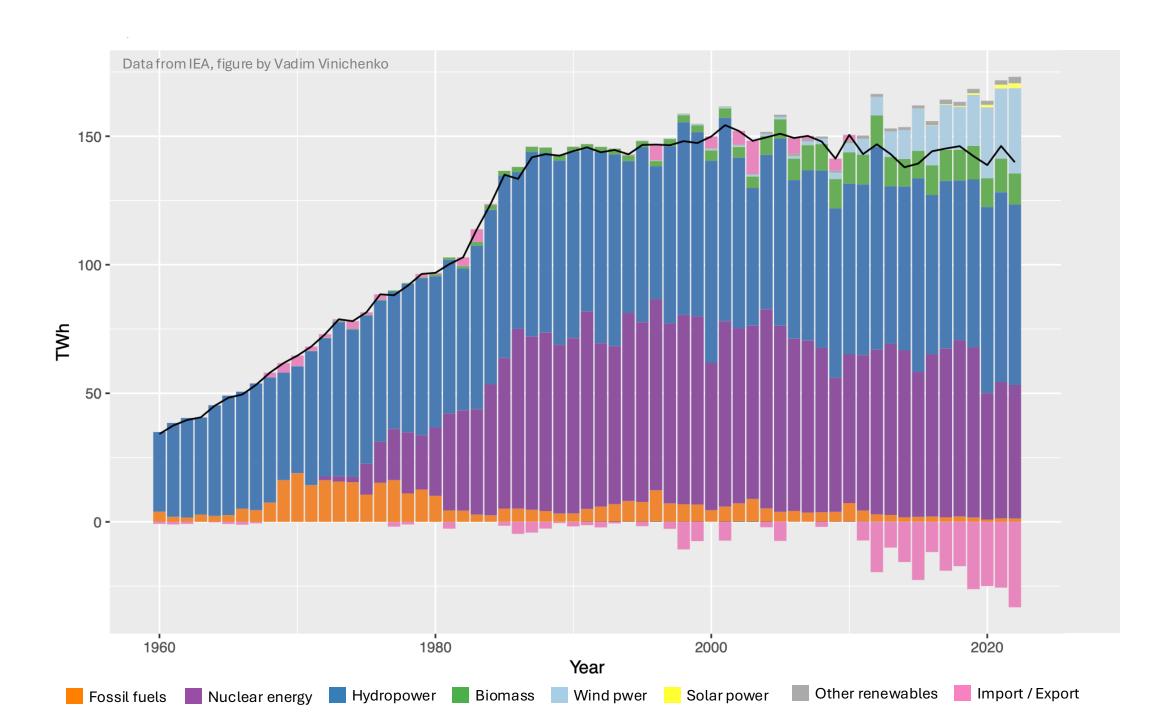
Pulsating growth patterns of onshore wind power in Sweden and Europe and its implications for future deployment

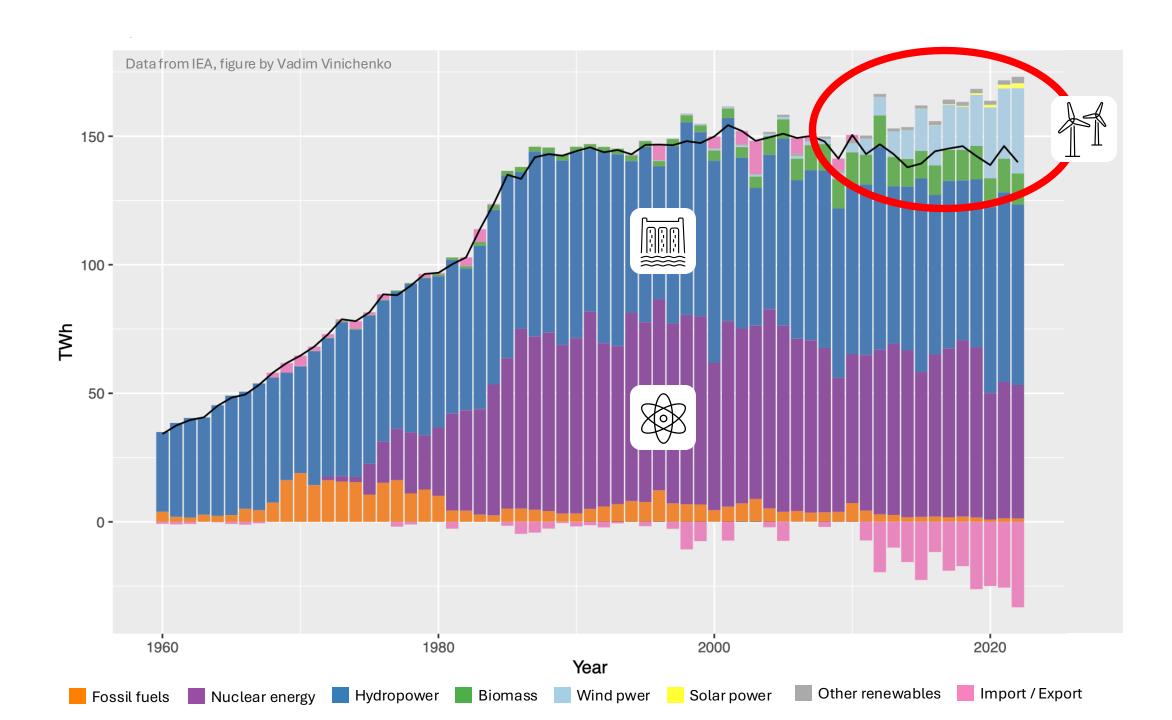
Marta Vetier | Postdoc | Chalmers University

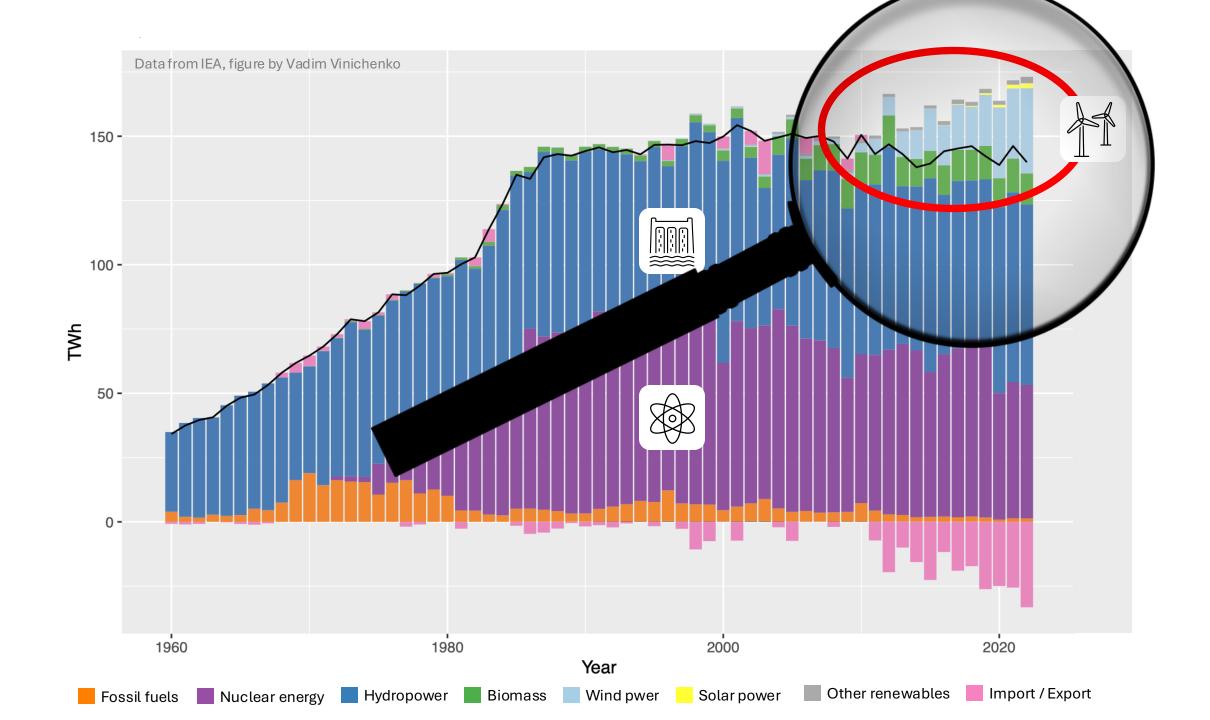
24 April 2025

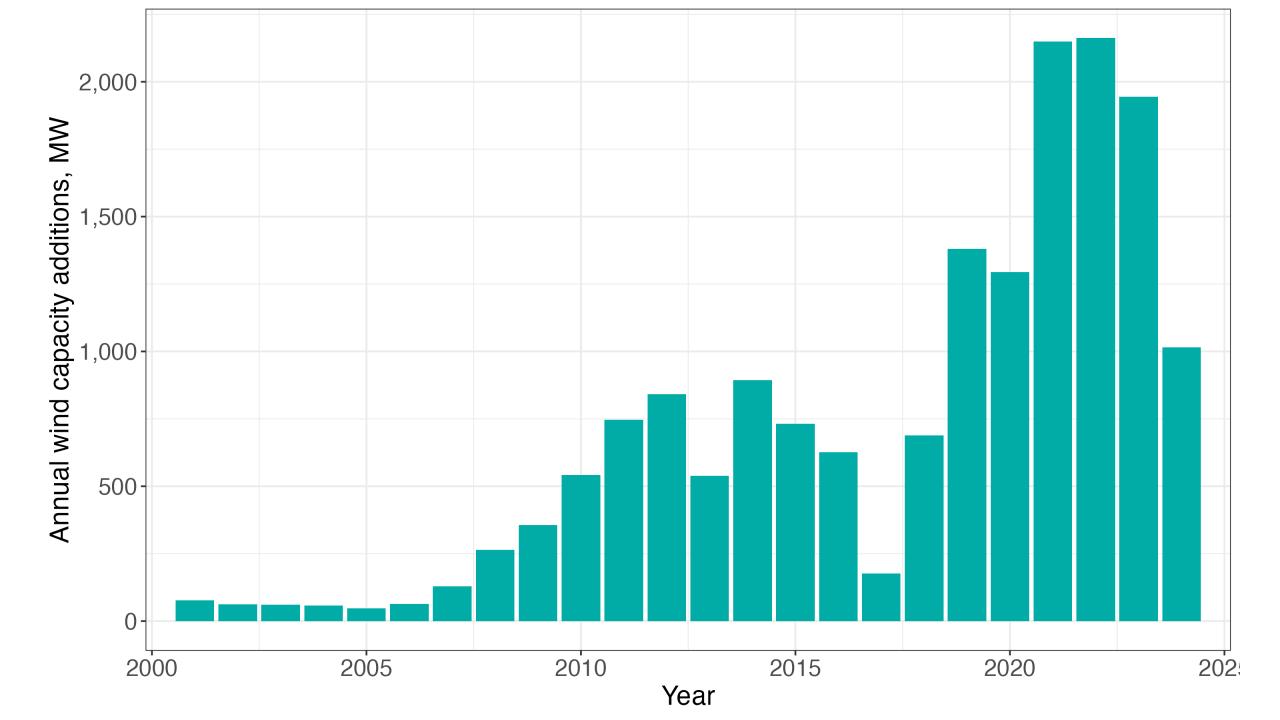
Onshore wind power in Sweden

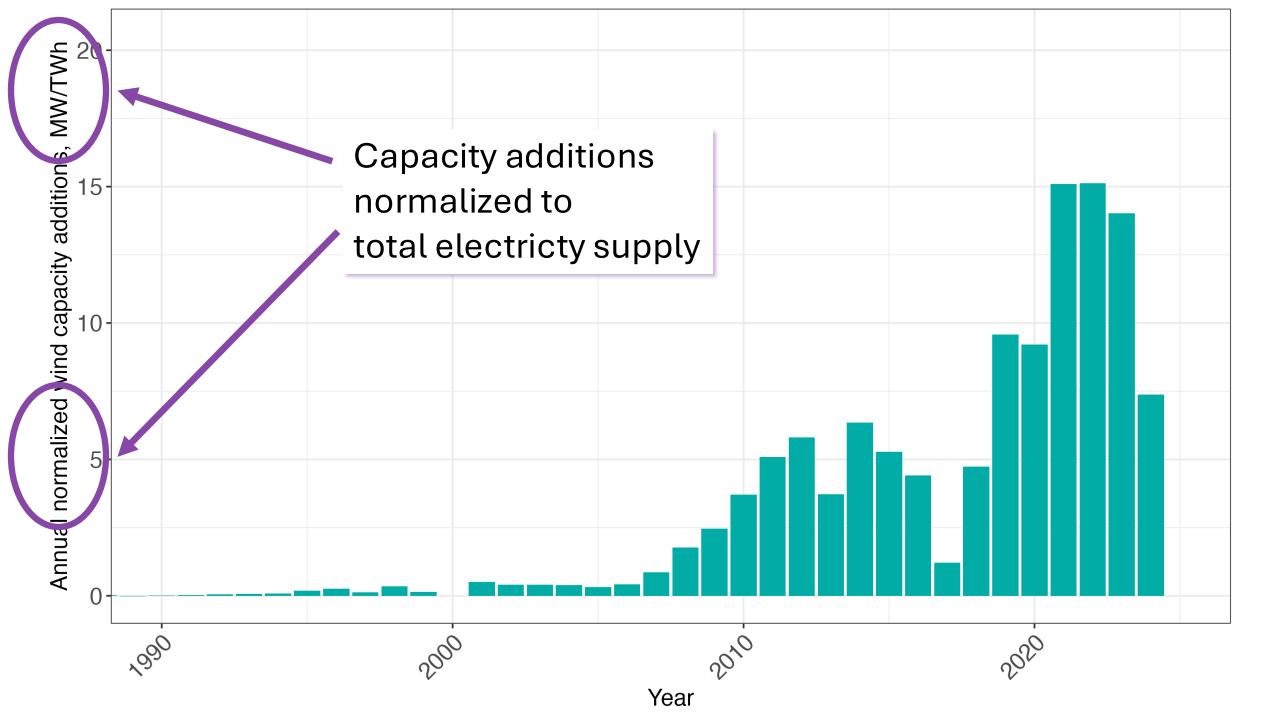
Historically and compared to other European countries

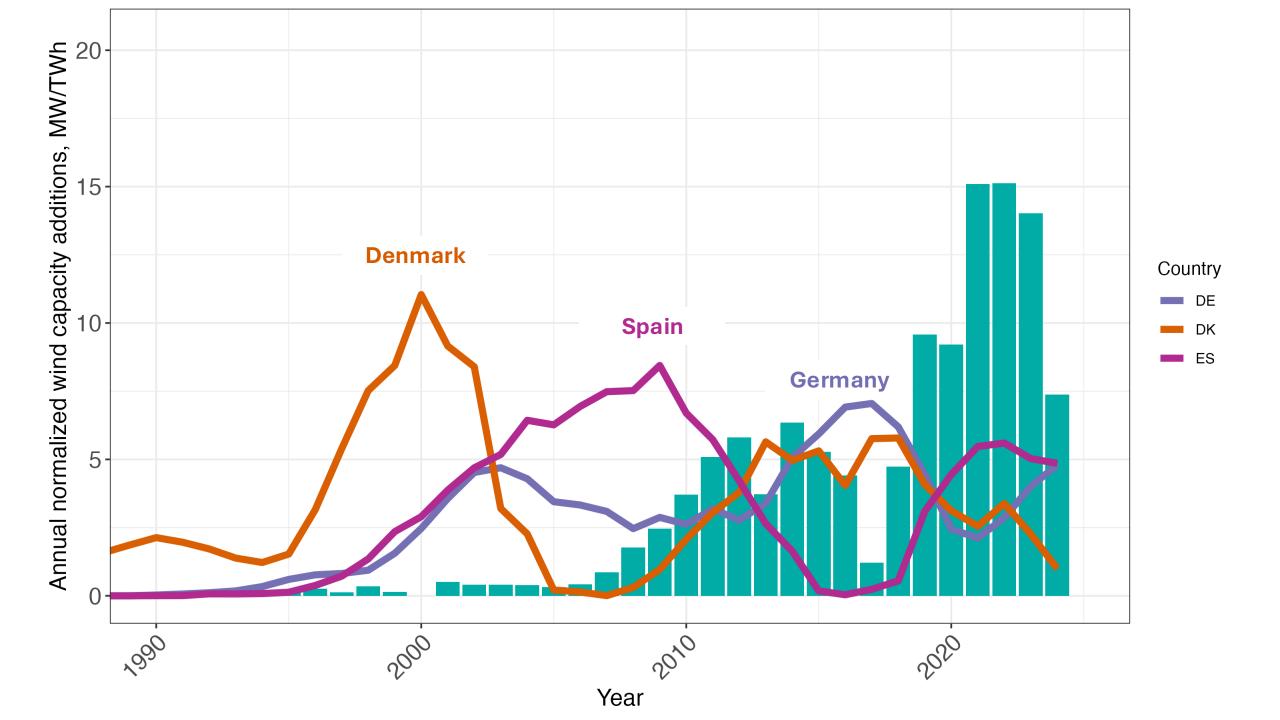


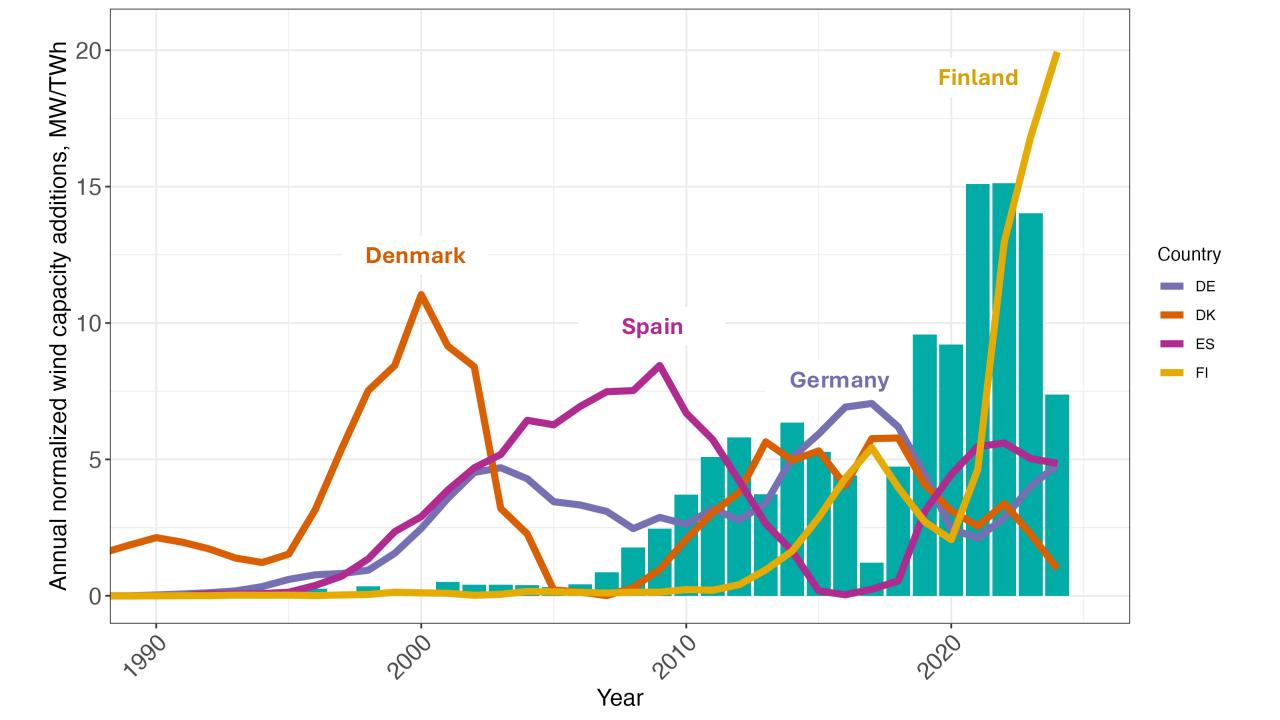






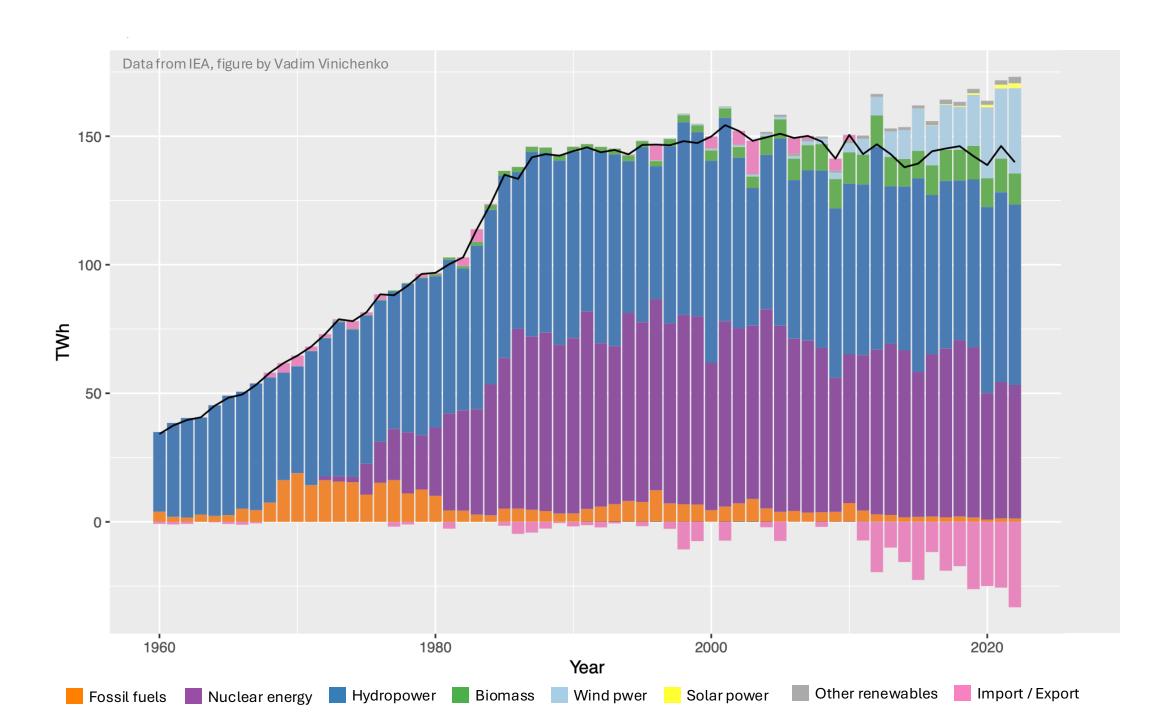


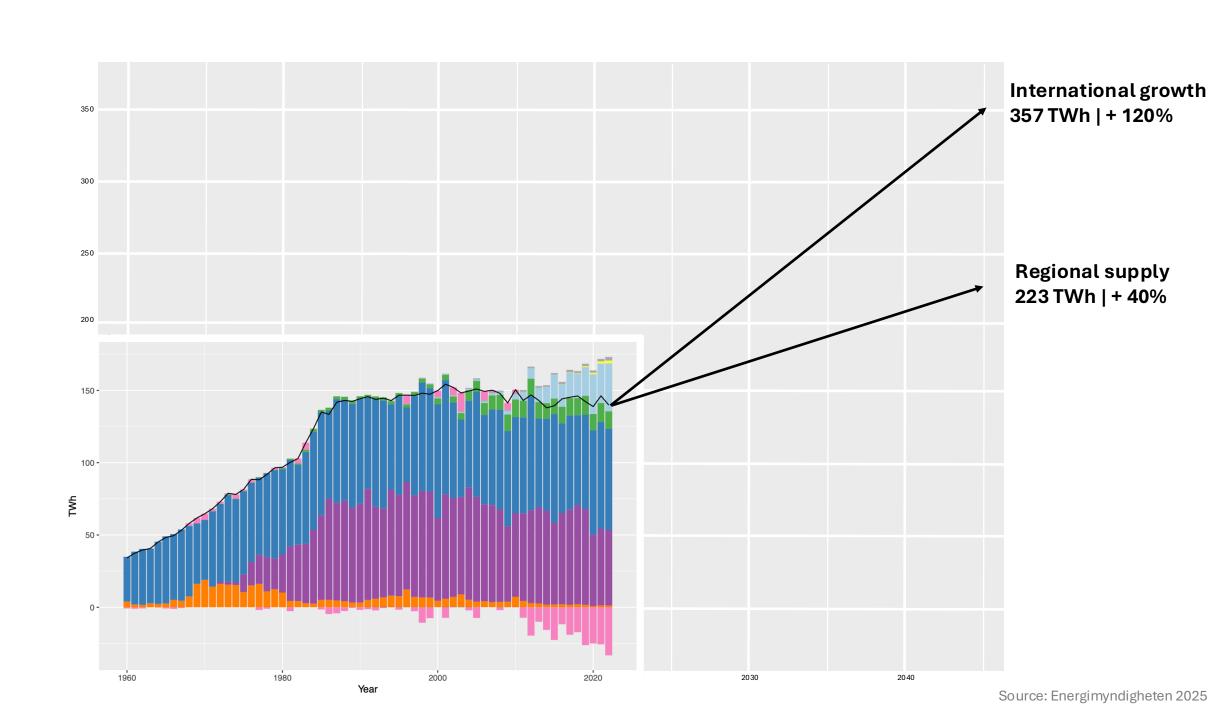


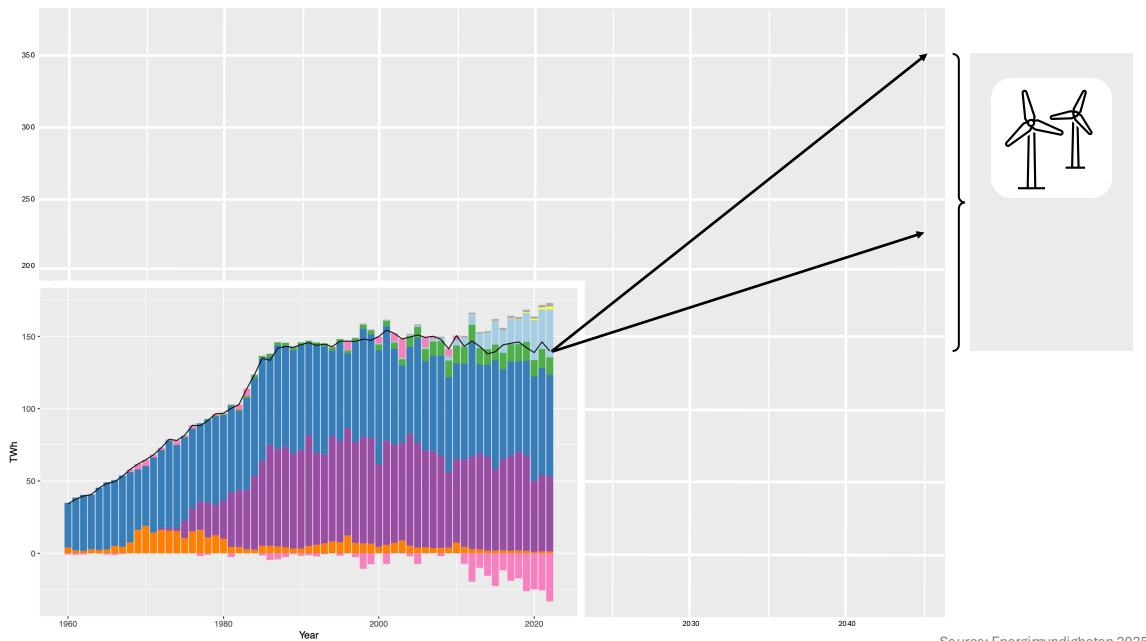


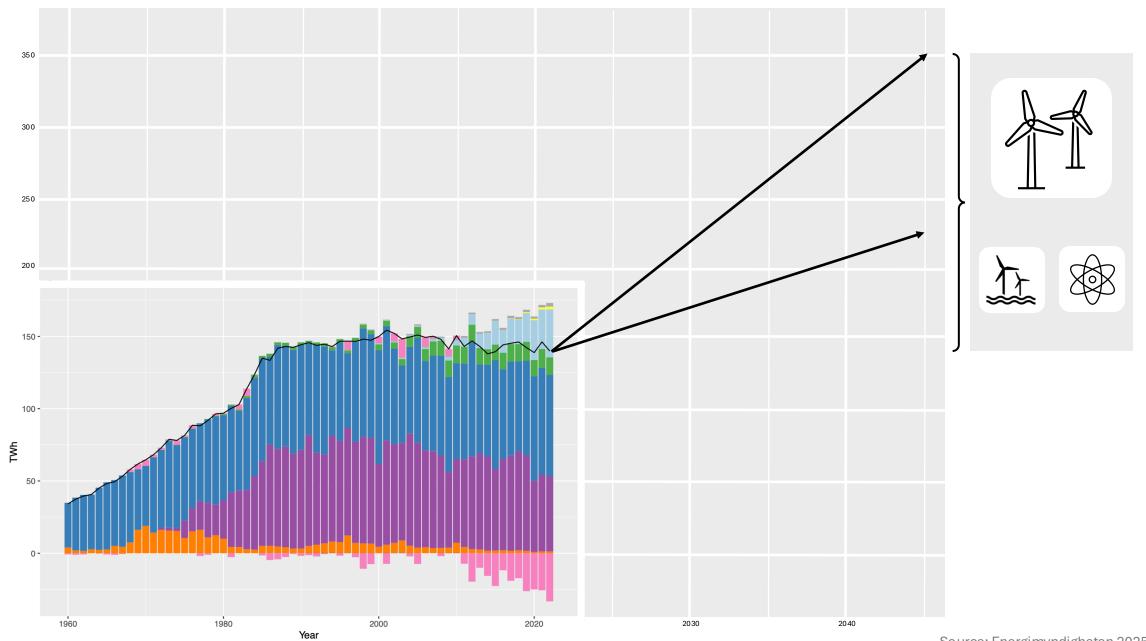
Future of onshore wind power

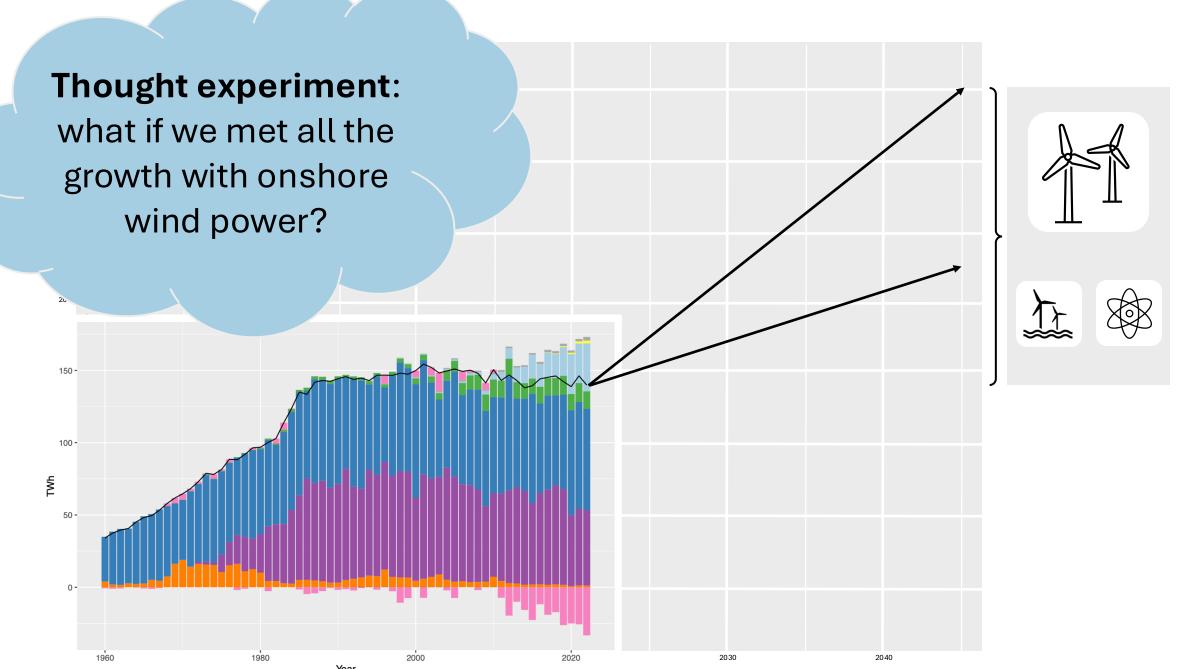
Scenarios and forecasts

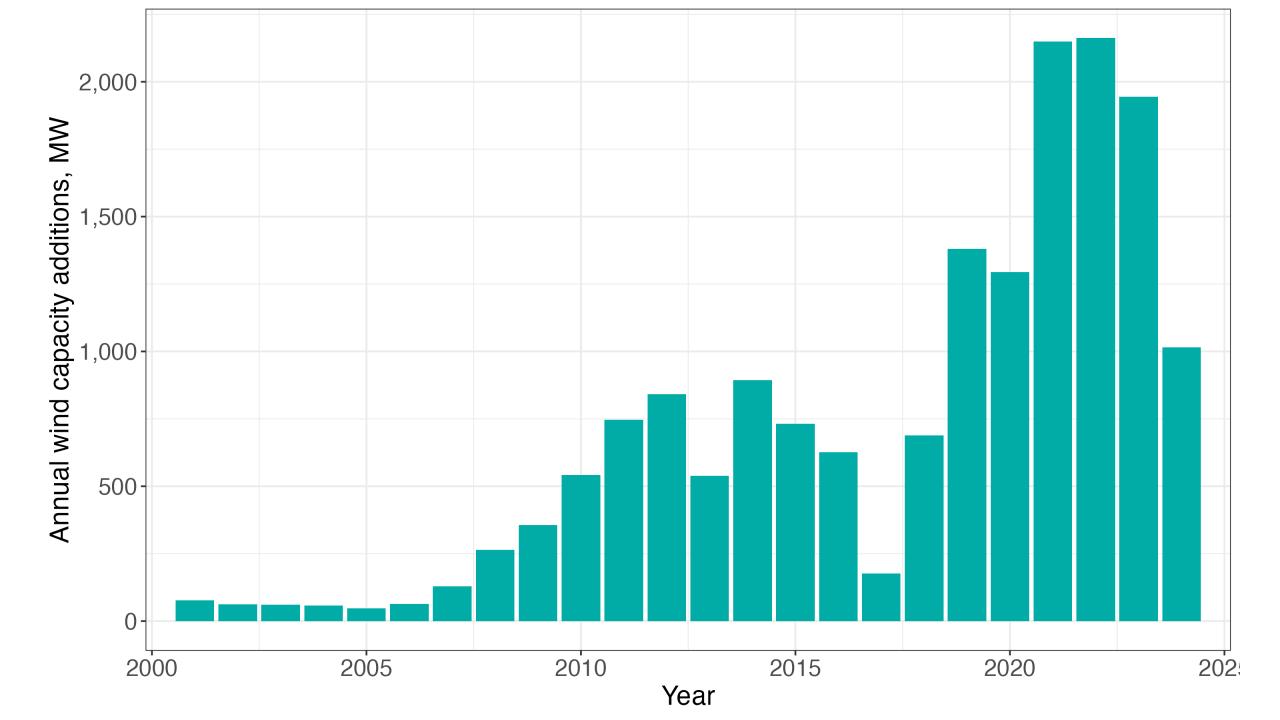


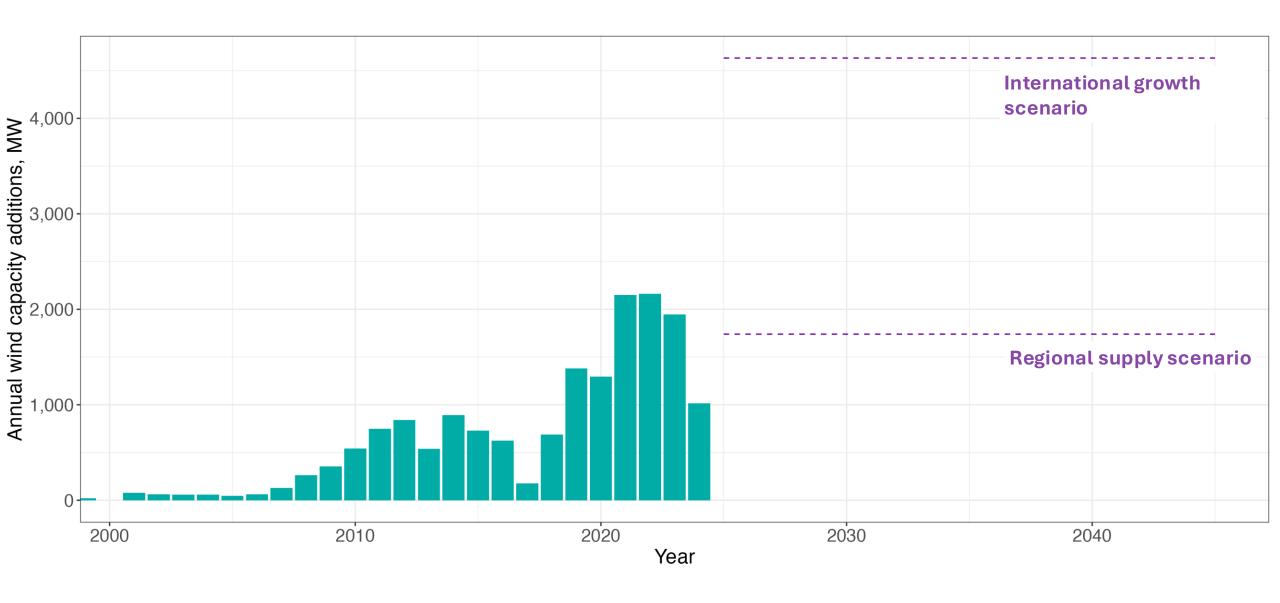


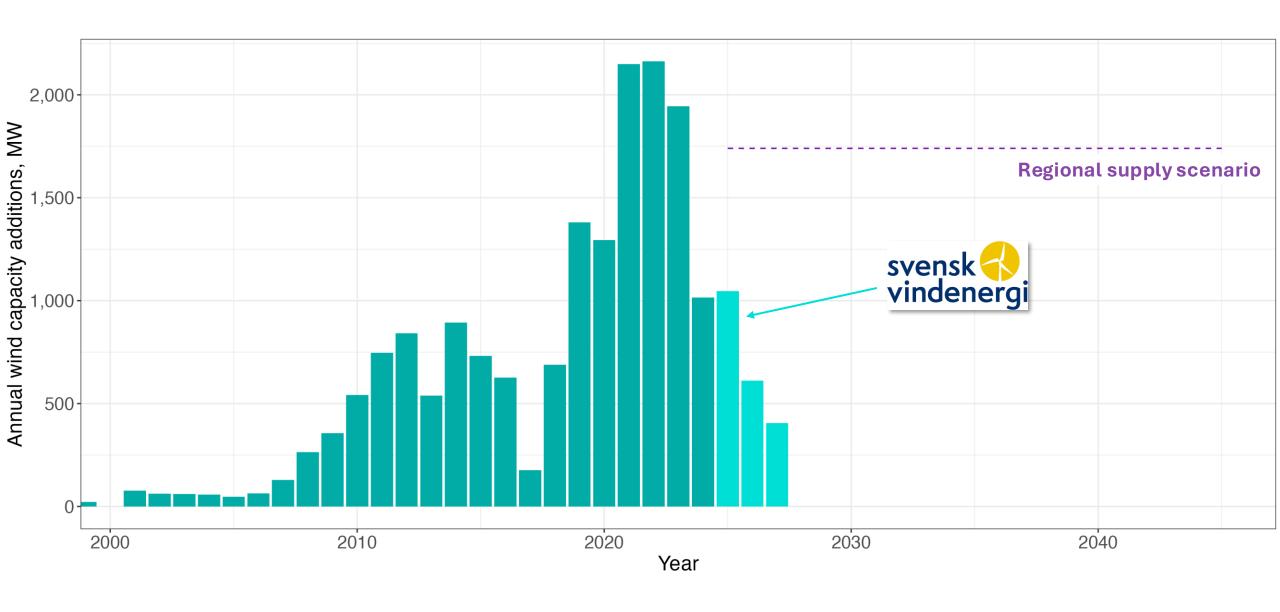


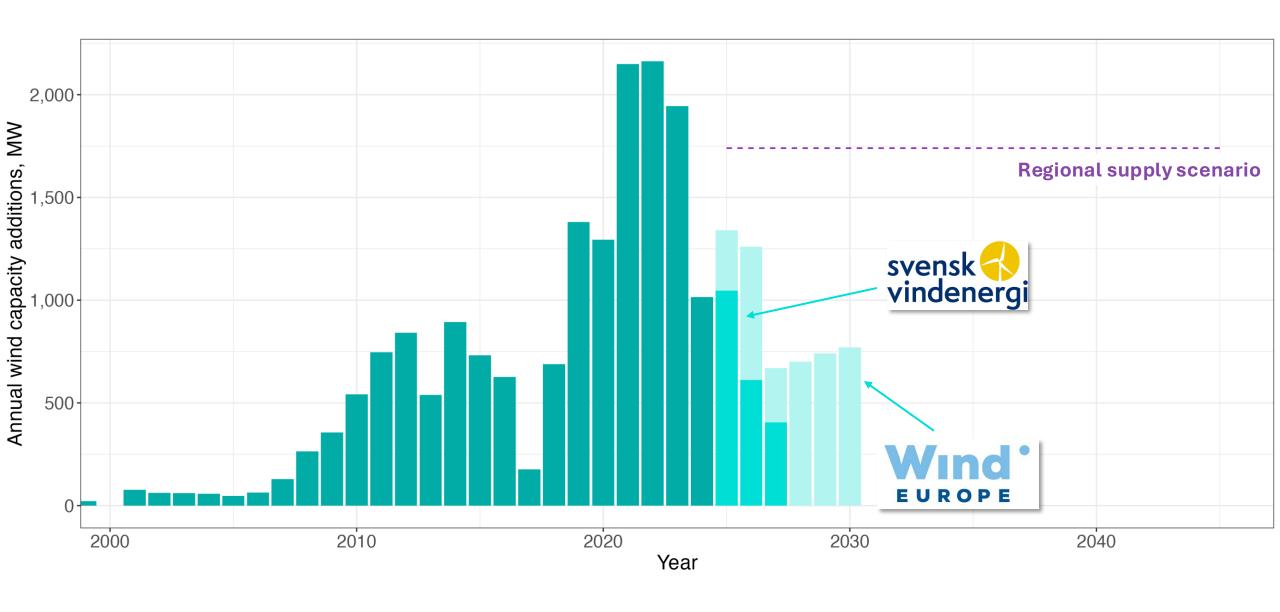


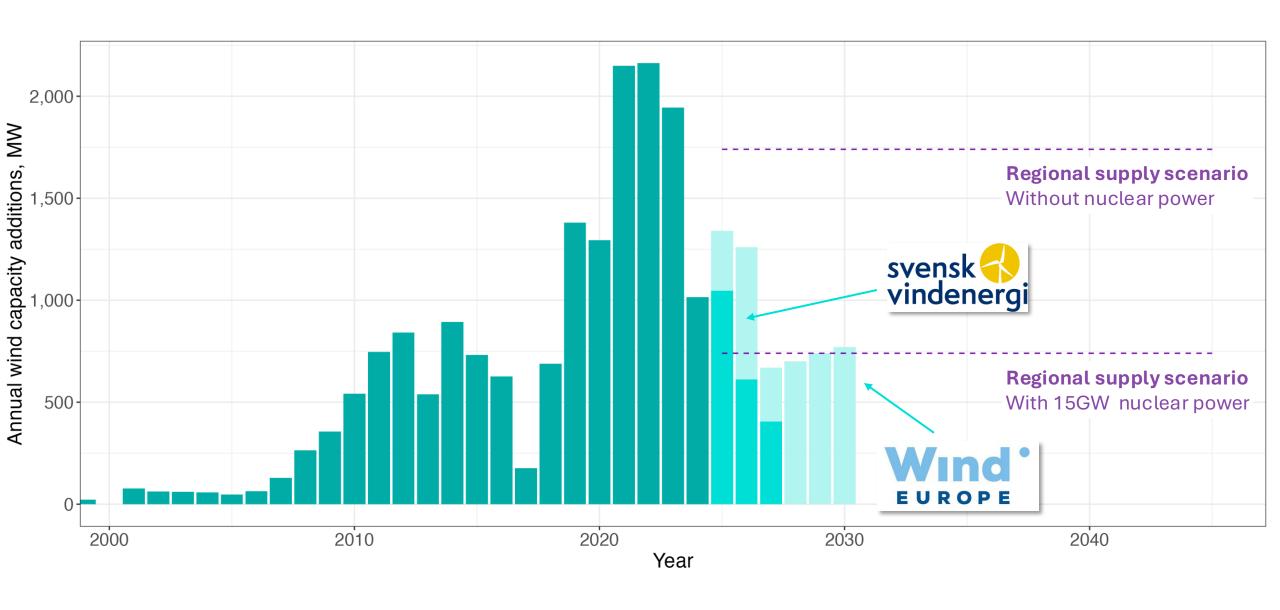






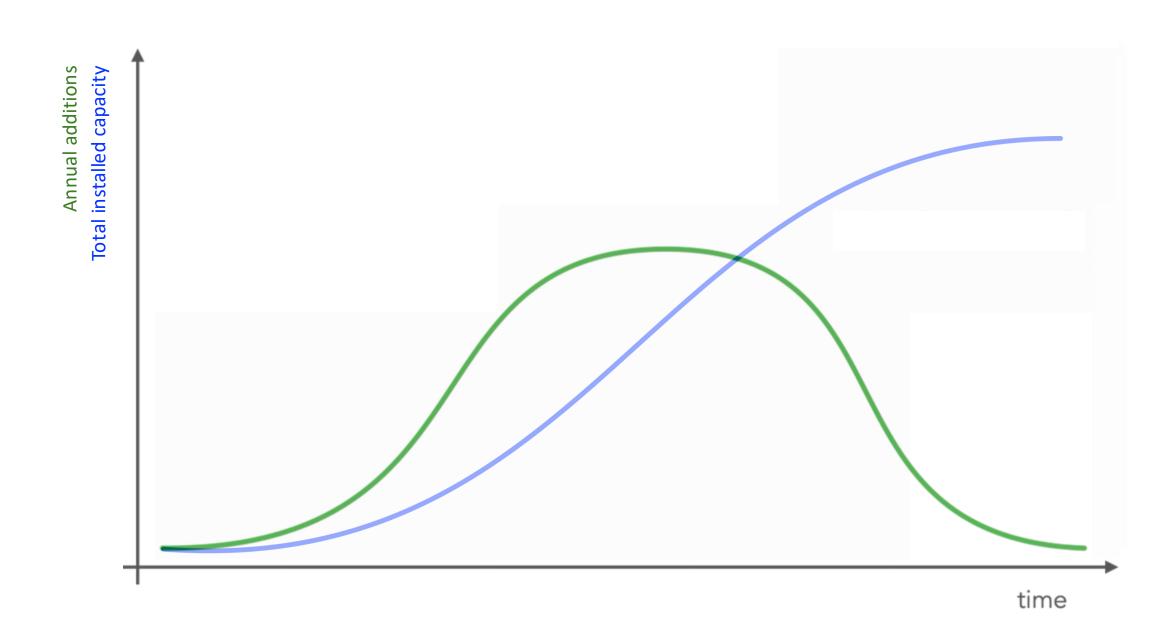


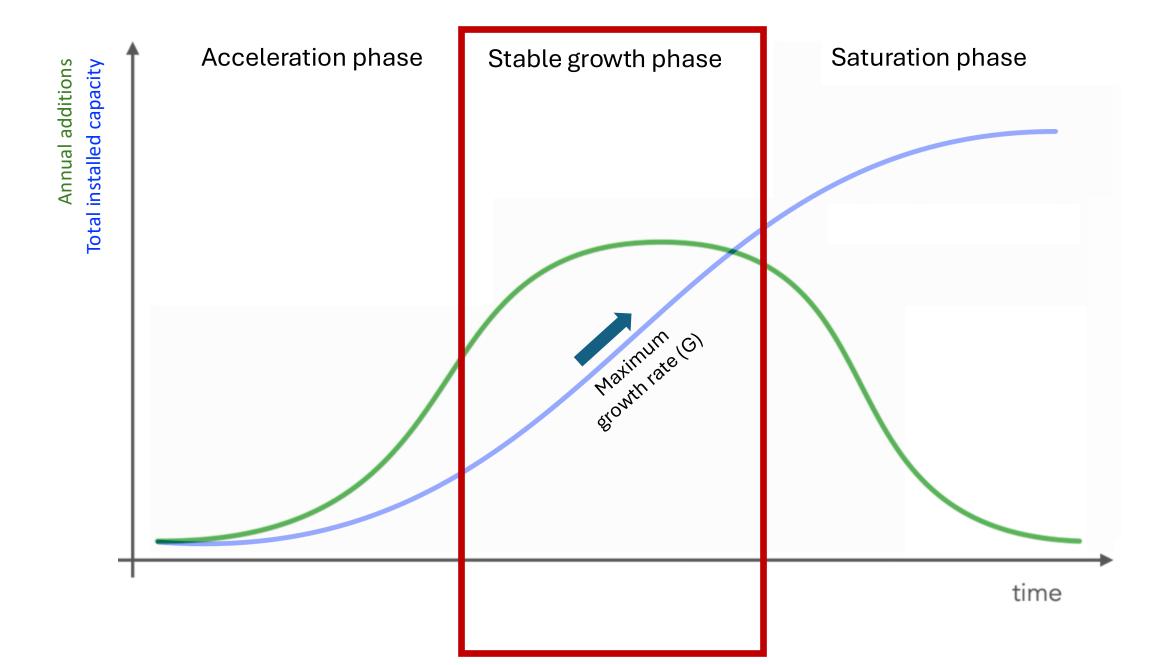


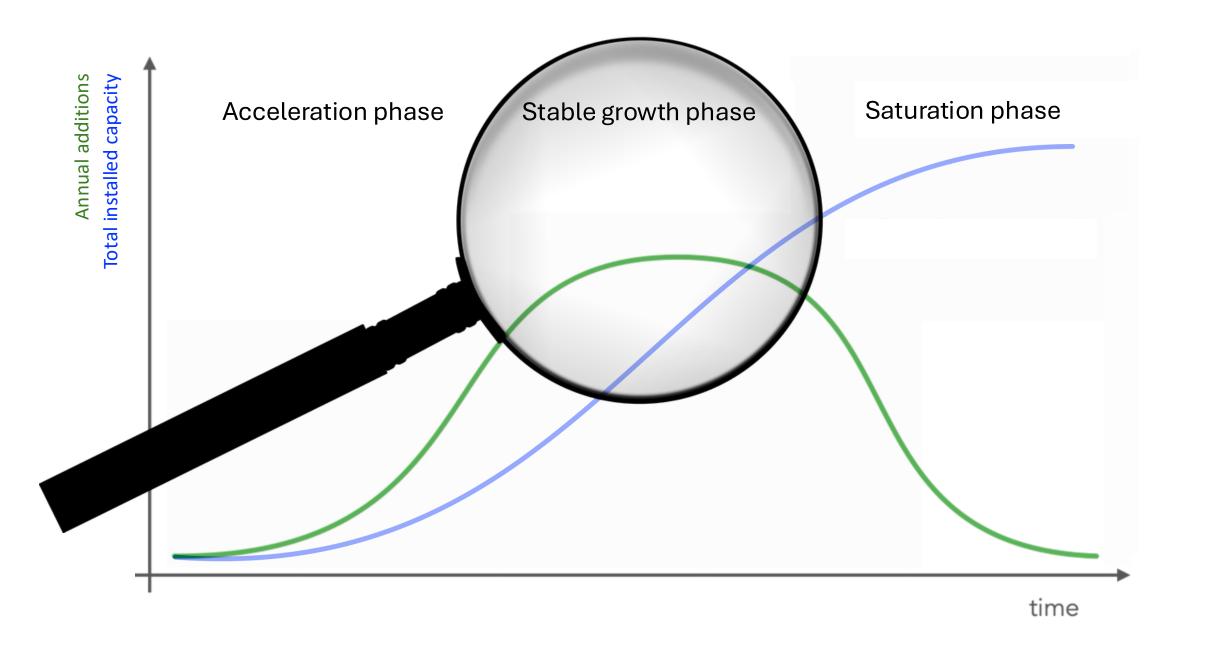


Technology growth

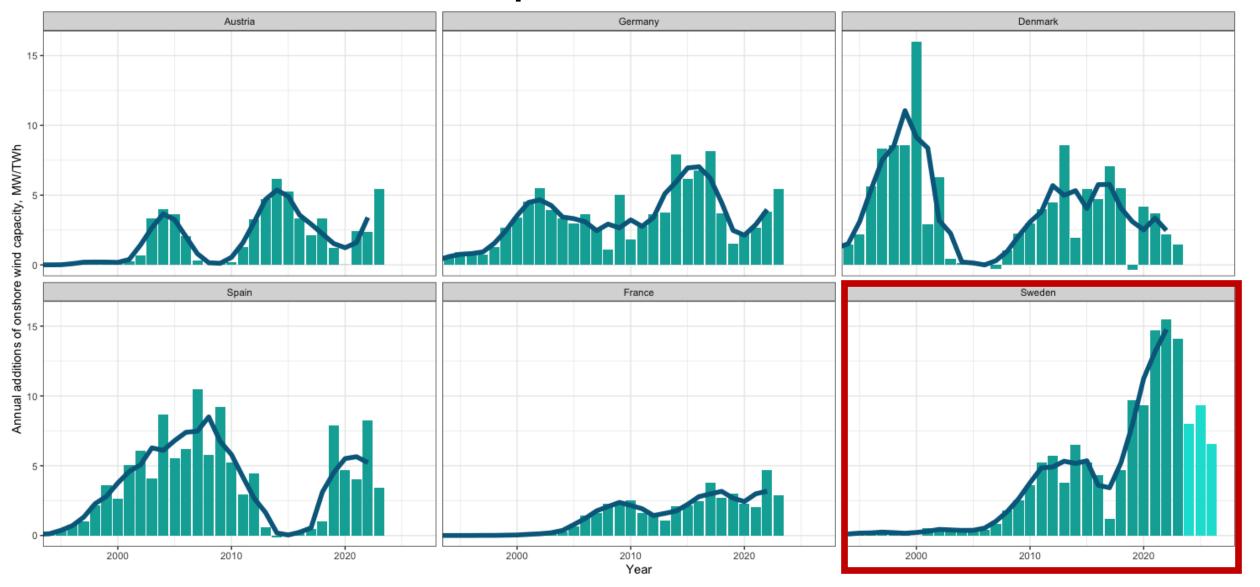
Growth pulses

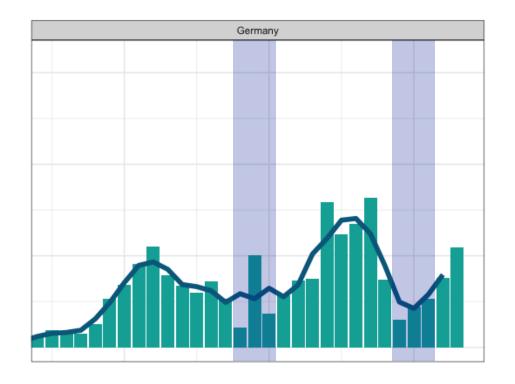


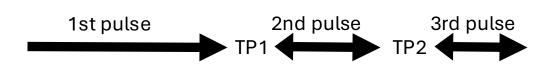


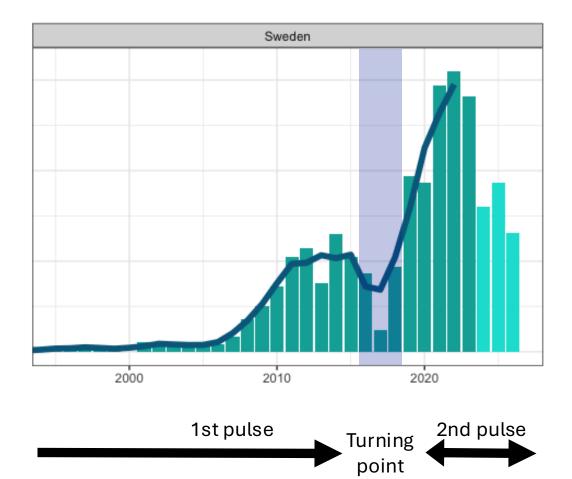


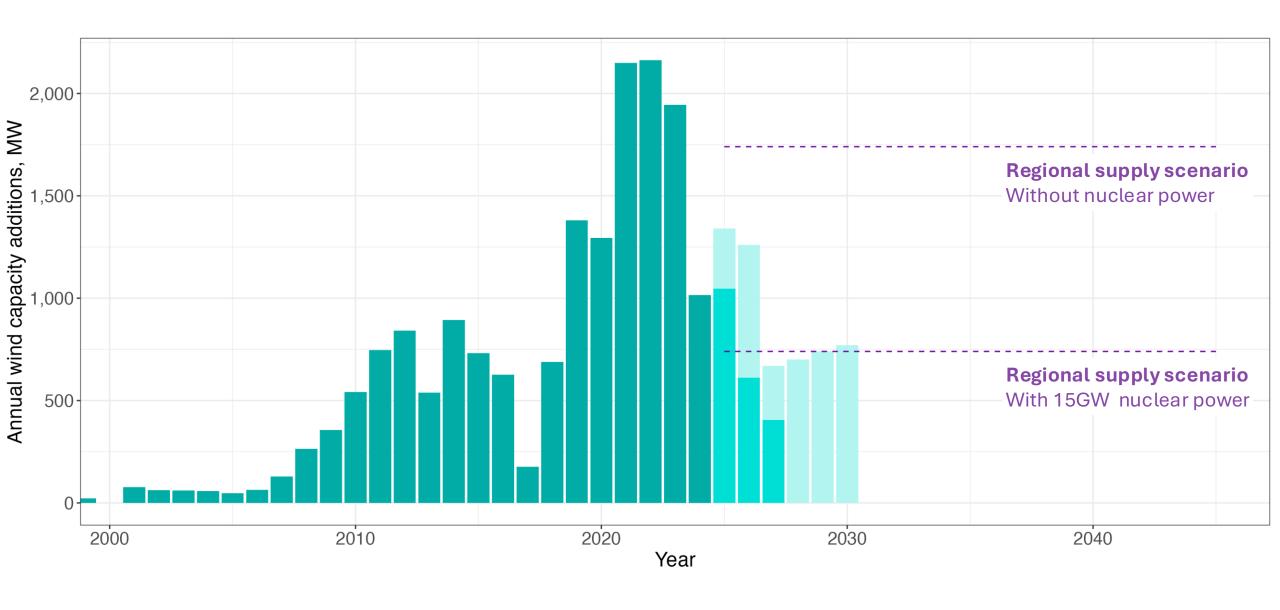
Growth comes in pulses











Starting the next growth pulse

Policies for re-accelerating growth

Policies for re-accelerating growth

Challenges: public and incumbent opposition, increasing pressures on land use, labor market conditions, and system integration

Policy aims: re-accelerate growth and manage barriers

Instruments to tackle emerging challenges:

- Regulatory simplification
- Compensation measures
- Increasing land availability
- Revisions to the electricity market

Summary

- Sweden has added onshore wind power at record-fast rates in the last years
- Onshore wind power additions in the next decade(s) are needed to meet growth in electricity demand
- Forecasts show a slowdown in deployment
- End of the second growth pulse, but not the end of wind power in Sweden
- The mechanisms driving slowdown need to be addressed to allow re-acceleration

Thank you for your attention!



