

Statistics and forecast Q3 2020

This is SWEA:s quarterly statistics and forecast for the Swedish wind power market, covering data from turbine manufacturers and wind power developers acting on the market.

SWEA, Swedish Wind Energy Association - Svensk Vindenergi

2020-11-09

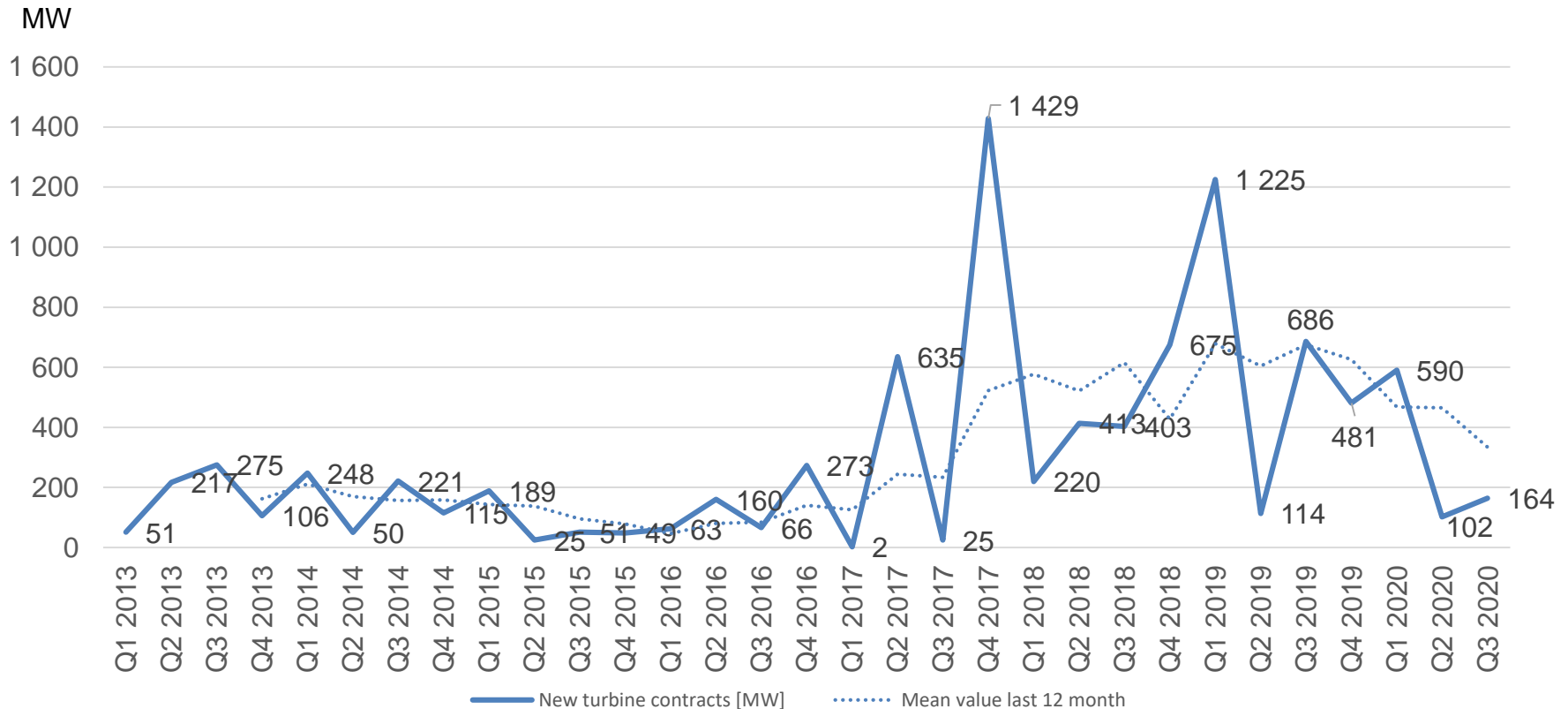
The statistics and forecast

- **The statistics** are based on sales figures reported by the turbine manufacturers and project figures from project developers combined with official sources.
- **The forecasts** are based on the above figures combined with estimates regarding future market conditions.
 - **Base case:** Refer to the short term forecast. It is based on the estimation that all firm and binding turbine contracts yet reported are realised together with some new projects. That is our assessment of the most realistic scenario and is the official forecast.
 - **Low case:** Assumes only projects where turbine contracts (firm and binding) have been signed will be realized. In this scenario no further investment decisions are made. Thus, this scenario defines the lower limit of wind power growth in Sweden.
 - **High case:** Projects with turbine contracts (firm and binding) are realized and on top of that an estimation that most projects considered favorable are realized.

New turbine contracts* (firm and binding)

The market was still adding capacity during Q3 2020.

Scheduled deliveries and commissioning for the coming 3-y period exceeds 4000 MW (15 TWh).



* Figures from all turbine manufacturers acting on the Swedish market

Comissioning

Time plan according to turbine manufacturers for wind power installations during year (MW) *
 Delays in projects are influencing scheduled commissioning.

2019	2020 Q1	2020 Q2	2020 Q3	2020 Q4	2020 (Tot)	2021	2022	2023
1667	132	266	141	1039	1577	2384	412	587
<i>Difference since Q2:</i>					-186	-166	-72	+587

* Figures from all turbine manufacturers acting on the Swedish market

Installations in 2020

Total by the end of 2019

Turbines: 4 120 st

Capacity: 9 061 MW

Actual production: 19,5 TWh*

Annual normal production (estimate): 25 TWh**

Added capacity in 2020

1st quarter: 132 MW (actual)

2nd quarter: 266 MW (actual)

3rd quarter: 141 MW (actual)

4th quarter: 1039 MW (forecast)

Total: 1 577 MW

Total by the end of 2020 - forecast

Turbines: 4 495 st

Capacity: 10 638 MW

Actual production: 29 TWh***

Annual normal production (estimate): 30 TWh**

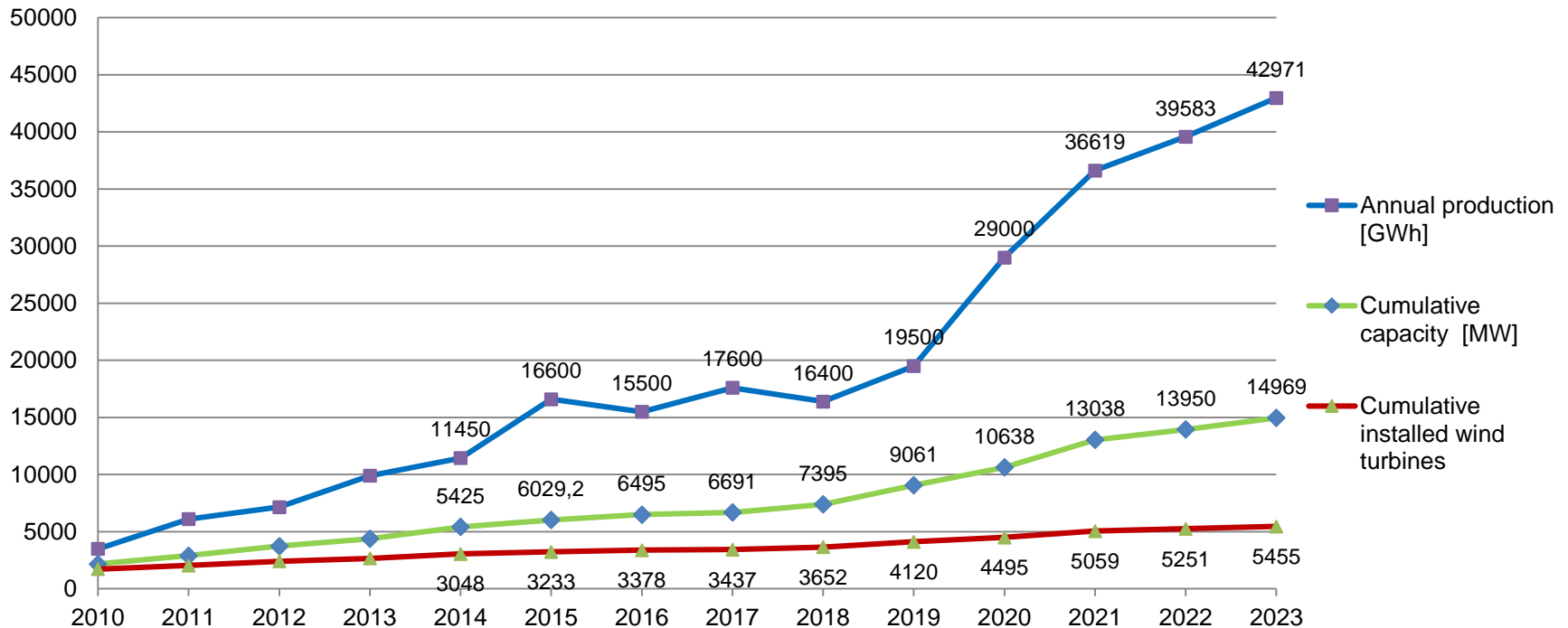
** Actual production is the real production and depends on wind conditions and when installations are made during the year.*

*** Annual normal production is the estimated annual production of electricity, as if all capacity in operation at the end of the year produced during the whole year with normal wind conditions.*

**** Estimations for the remainder of 2020 based on the assumption of new projects coming on line as shown above and normal wind conditions*

Short term forecast 2020-11-09

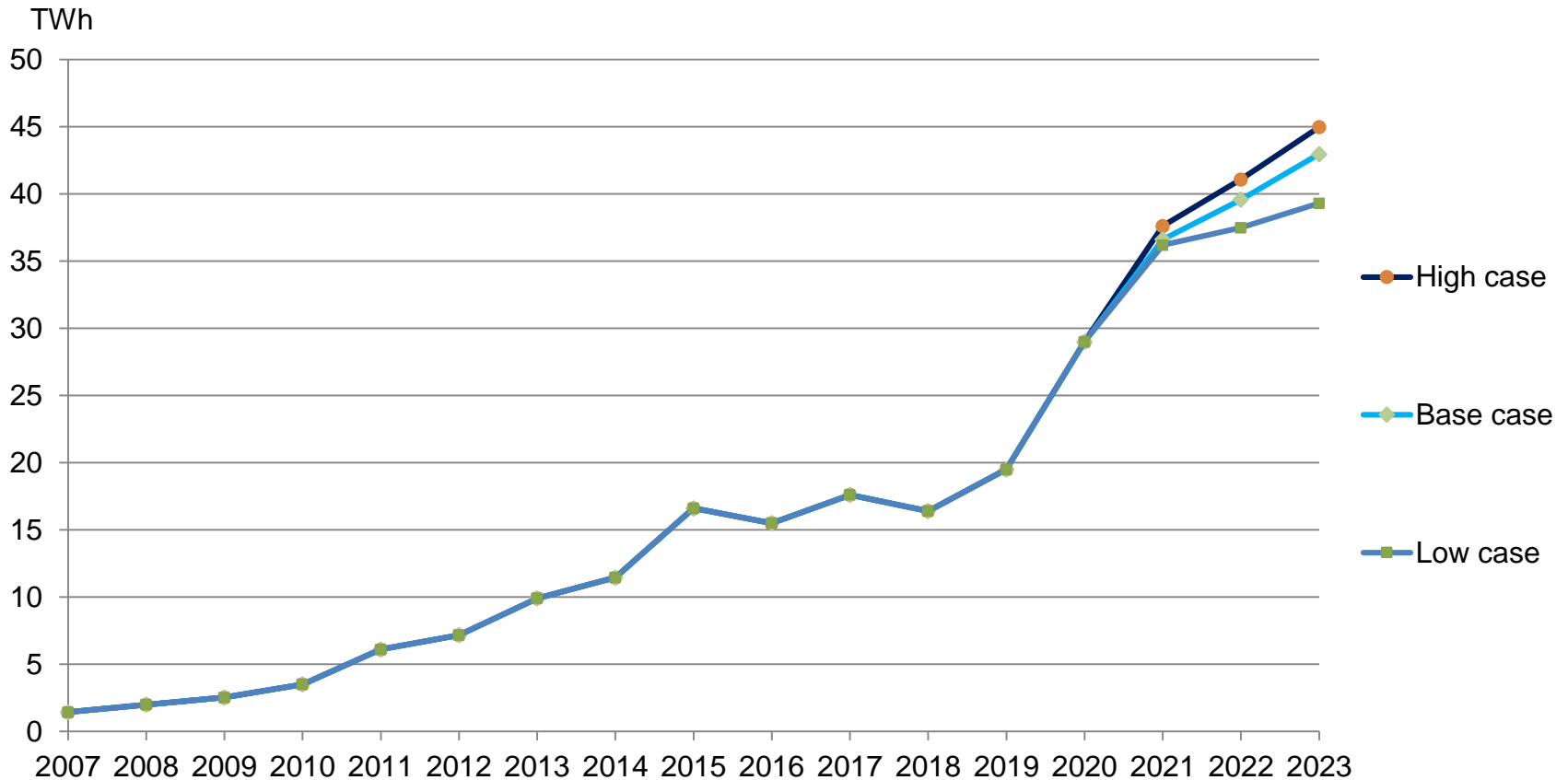
Turbines are getting taller and increasing the swept area. While production (GWh) and installed capacity (MW) is to double in the coming years, the number of installed turbines will remain around 5000 as older, smaller turbines are being replaced with fewer and bigger machines.



* Figures based on reported firm and binding contracts from all turbine manufacturers acting on the Swedish market. This scenario is the official short term forecast of SWEA and updated quarterly. The long term forecast (2040) is found on the [homepage of SWEA](#)

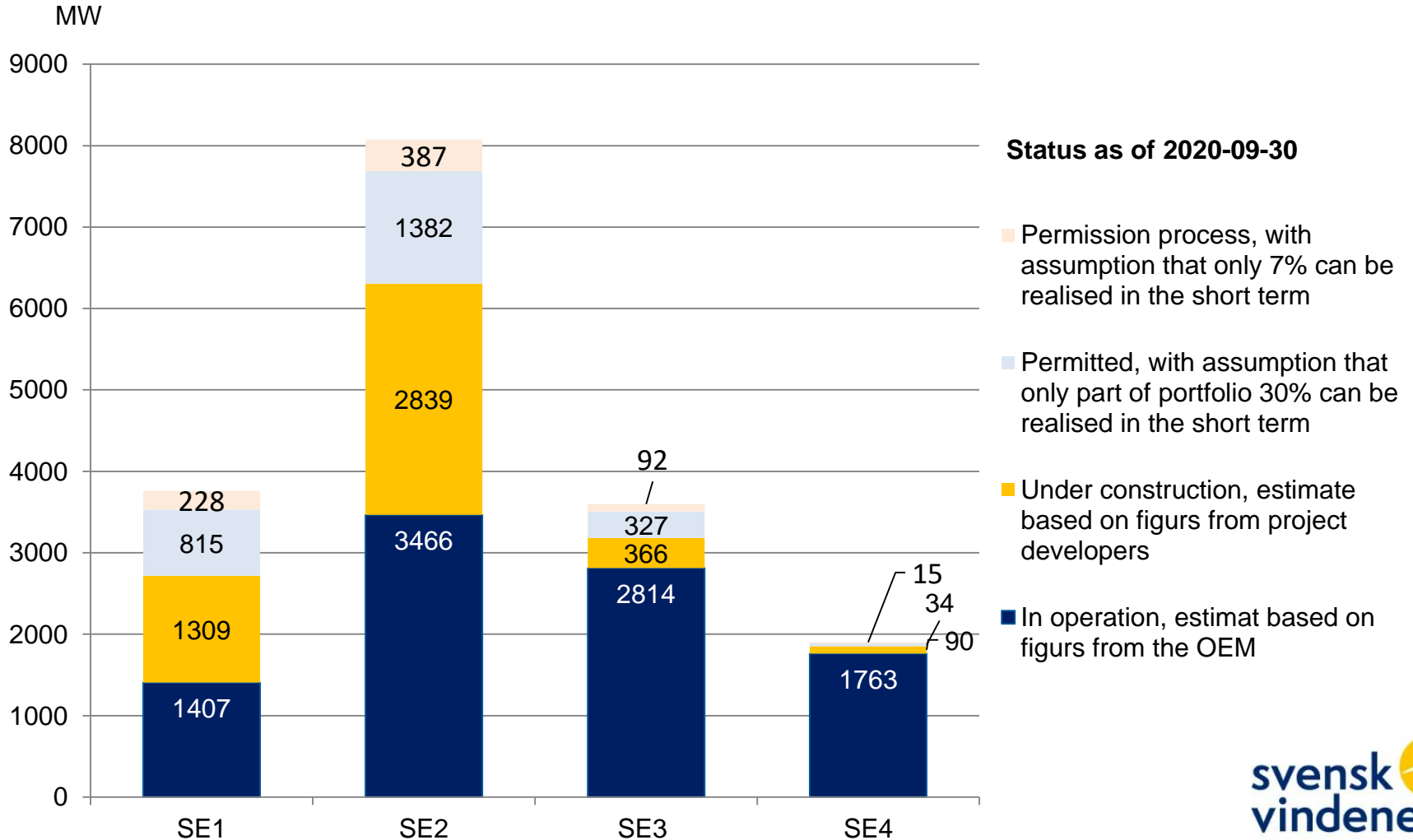
Wind power production – all cases

Production is quickly doubling from 2019-levels and is now close to 30 TWh yearly, and set to increase towards 40-45 TWh in 2023. Forecasted growth declining due to e.g. backlogs in commissioning and grid capacity.



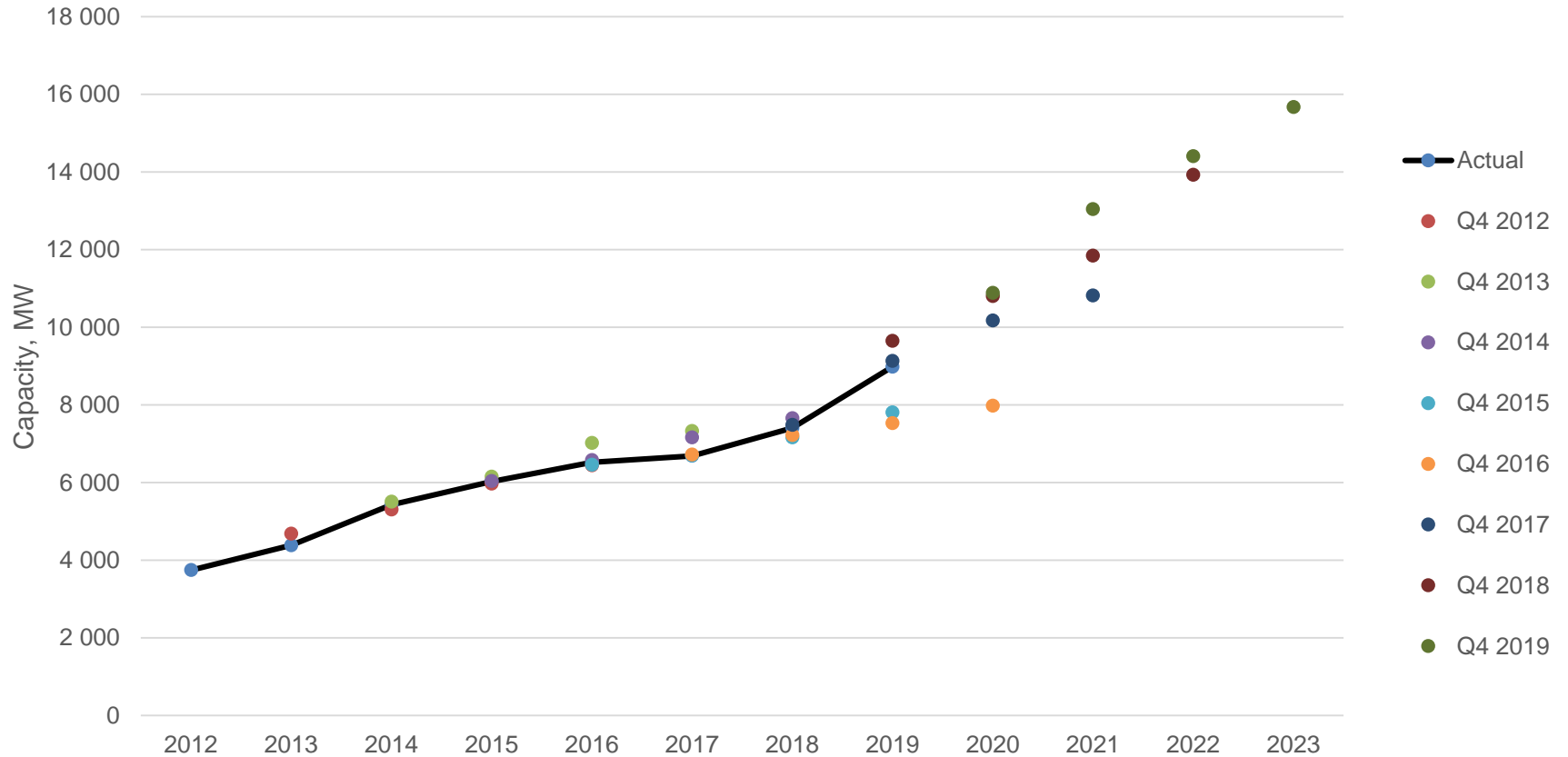
Installed capacity by price area

The strong development in price area SE2 continues. Most projects [by MW] “In operation” and “Under construction” are located in SE1 and SE2. Same for projects with status “Permitted” and “In permission process”, although only a small part of the portfolio is shown in the figure.



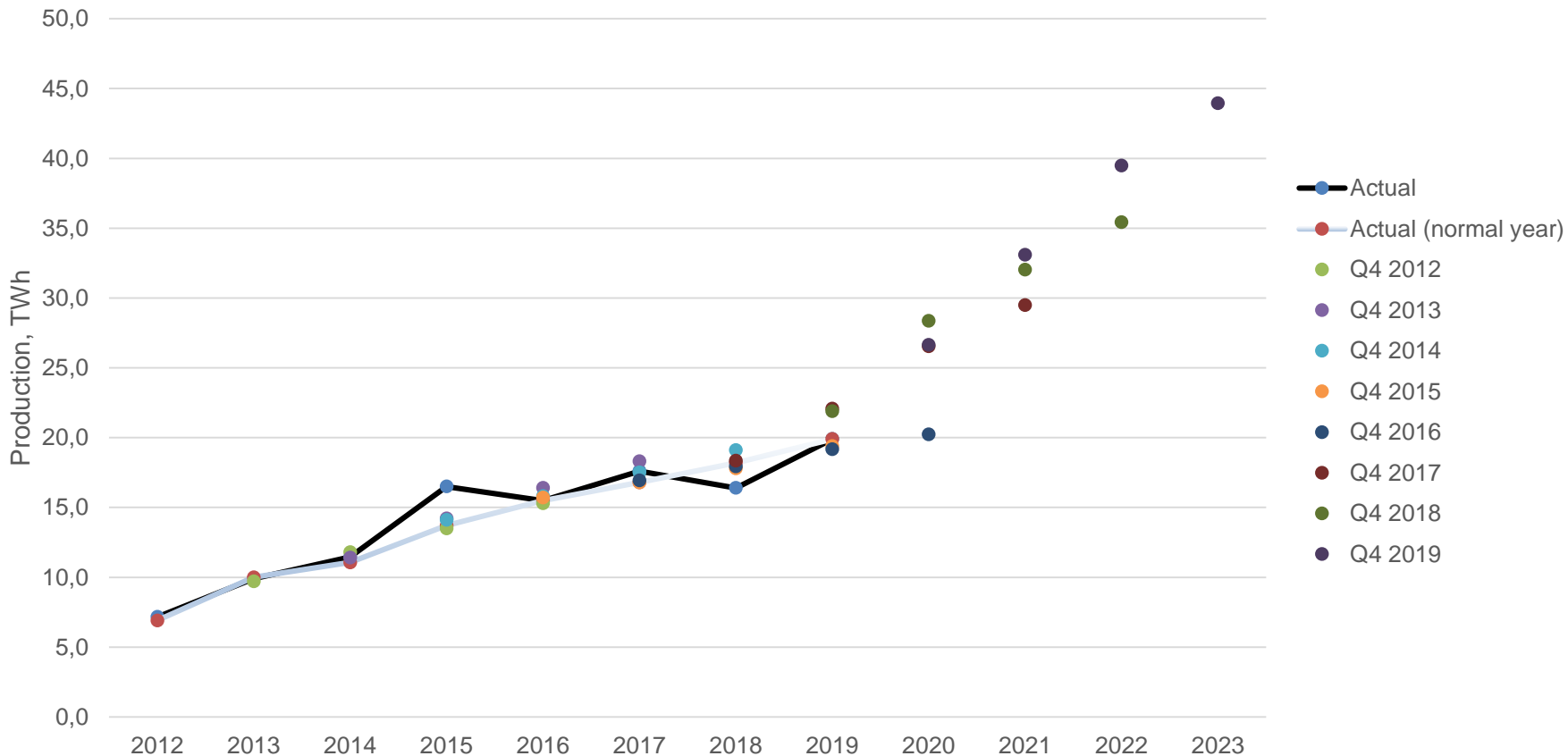
Follow up – installed capacity [MW]

Graph shows previous forecasts (dots) and actual installed wind power capacity (line). Earlier forecasts have proven to be very close to the real development.



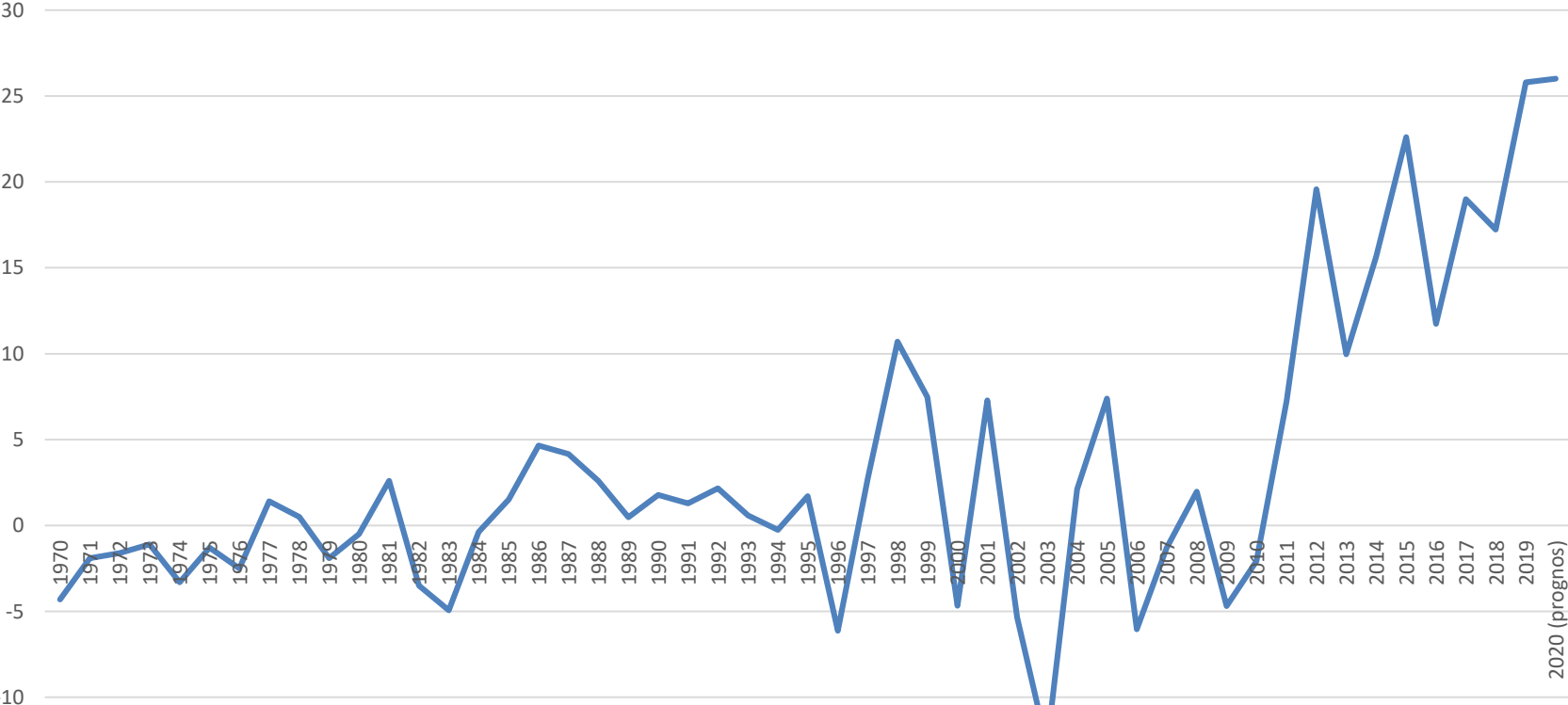
Follow up – electricity production [TWh]

Graph shows previously forecasted yearly production (dots) and actual production (line). Earlier forecasts have proven to be very close to the real development.



Sweden: Record breaking net exporter

Sweden has broken its historical import dependence and exports more electricity than most other European countries. The export is forecasted to continue and hit record breaking numbers this year exceeding 25 TWh, and a net worth of 1,5 € bn.



Net export of electricity, Sweden (1970-2020)





daniel.kulin@svenskvindenergi.org
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svensk
vindenergi 