

Statistics and forecast

This is quarterly edition of statistics and forecasts for the Wind Power Market, covering data from turbine manufacturers and wind power developers acting on the Swedish market (estimated coverage is 100 percent respectively 95 percent of the total Swedish market)

Q3 2018

Svensk Vindenergi – Swedish Energy Association, SWEA

The statistics and forecast

- **The statistics** are based on the order books of the turbine manufacturers and project portfolios of the wind power developers presented at aggregated level
- **The forecast** consists of three future scenarios (low, base, high). They are based on assumptions regarding which projects will be realized - considering today's market situation and the future's.
- **Low case:** Only projects where turbine contracts (firm and unconditional) have been signed will be realized. In this scenario no further investment decisions are made, hence this scenario defines the lower limit of wind power growth in Sweden.
- **Base case:** Projects with signed turbine contracts, approximately 15 percent of permitted projects and 5 percent of projects under permission process will be realized. This is the most realistic scenario and is the official forecast.
- **High case:** Projects with signed turbine contracts, around 25 percent of permitted projects and 10 percent of projects under permission process will be realized. This scenario may be relevant in circumstances leading to higher power prices and sets the ceiling for growth of wind power in Sweden.

Installations in 2018

Total by the end of 2017

Turbines: 3 437

Capacity: 6 691 MW

Actual production: 17,6 TWh *

Annual production (estimated): 17,2 TWh **

Added capacity in 2018 (forecast)

1st quarter: 8,4 MW

2nd quarter: 79,4 MW

3rd quarter: 338,8 MW

4th quarter: 490,2 MW

Total: 816,7 MW



Total by the end of 2018 (forecast)

Turbines: 3 681

Capacity: 7 507 MW

Actual production: 16,5 TWh *

Annual production (estimated): 19,8 TWh **

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

*** Estimated annual production is the annual production the turbines are expected to produce when in operation during a whole year with normal wind conditions.*

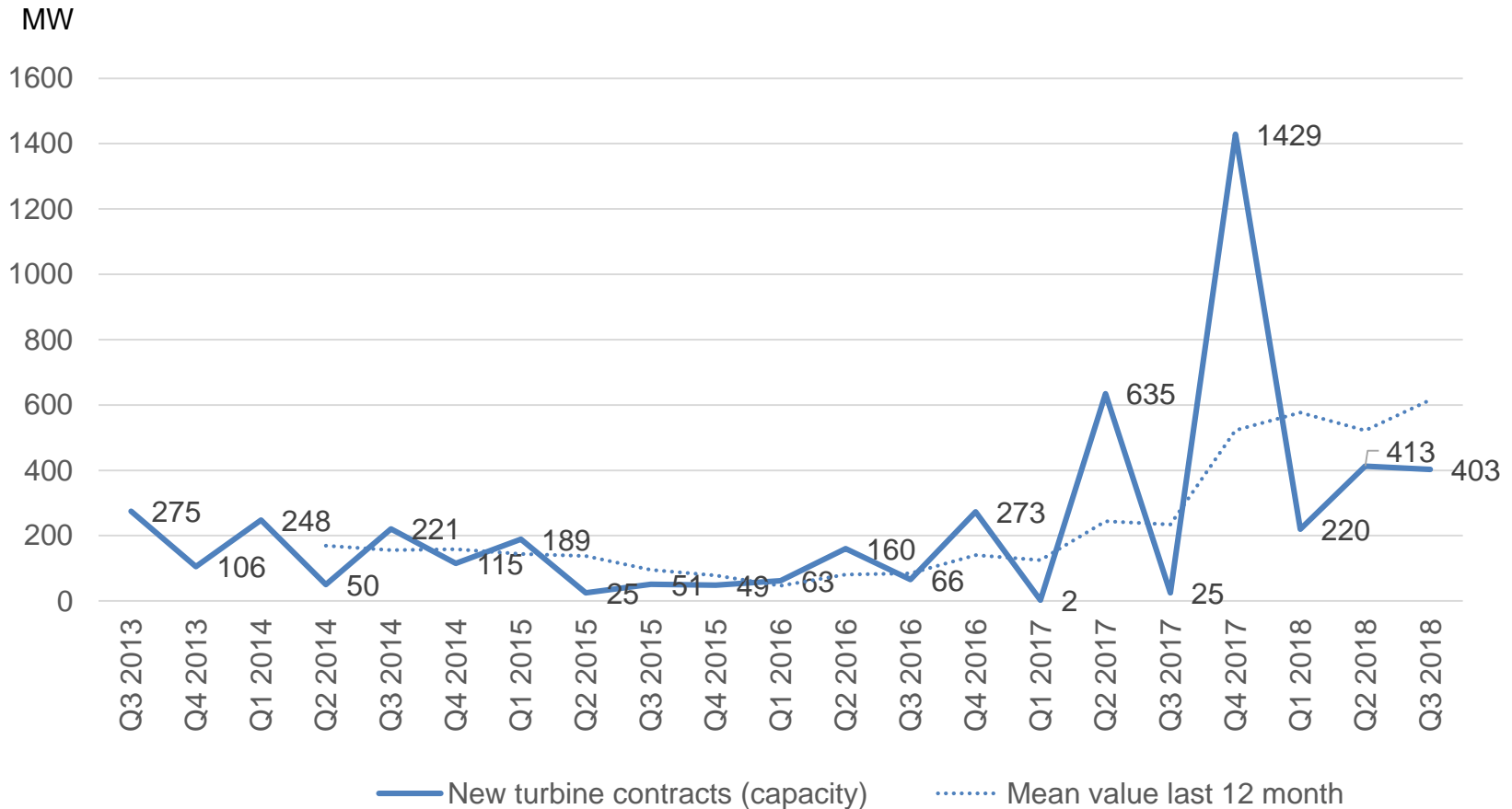
Project portfolio, status by 2018-09-30

	Onshore	Offshore	Total	<i>Change Q2</i>
In operation				
Windturbines	3 451	86	3 537	(+74)
Capacity (MW)	6 817	200	7 017	(+239)
* Under construction				
Windturbines	825		825	(+22)
Capacity (MW)	3 110		3 110	(+164)
** Permitted				
Windturbines	2 513	503	3 016	
Capacity (MW)	8 462	2 267	10 729	
** In permission process				
Windturbines	2 240	275	2 515	
Capacity (MW)	7 436	925	8 361	

* Firm and unconditional turbine order based on investment decisions

** Estimations

New turbine contracts (firm and binding)

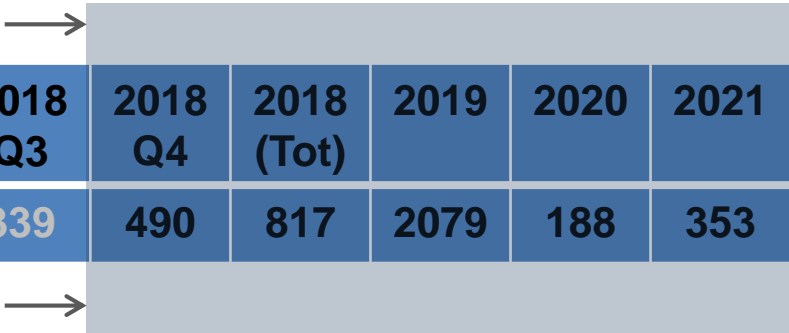


* Figures from all turbine manufacturers acting on the Swedish market

Order books

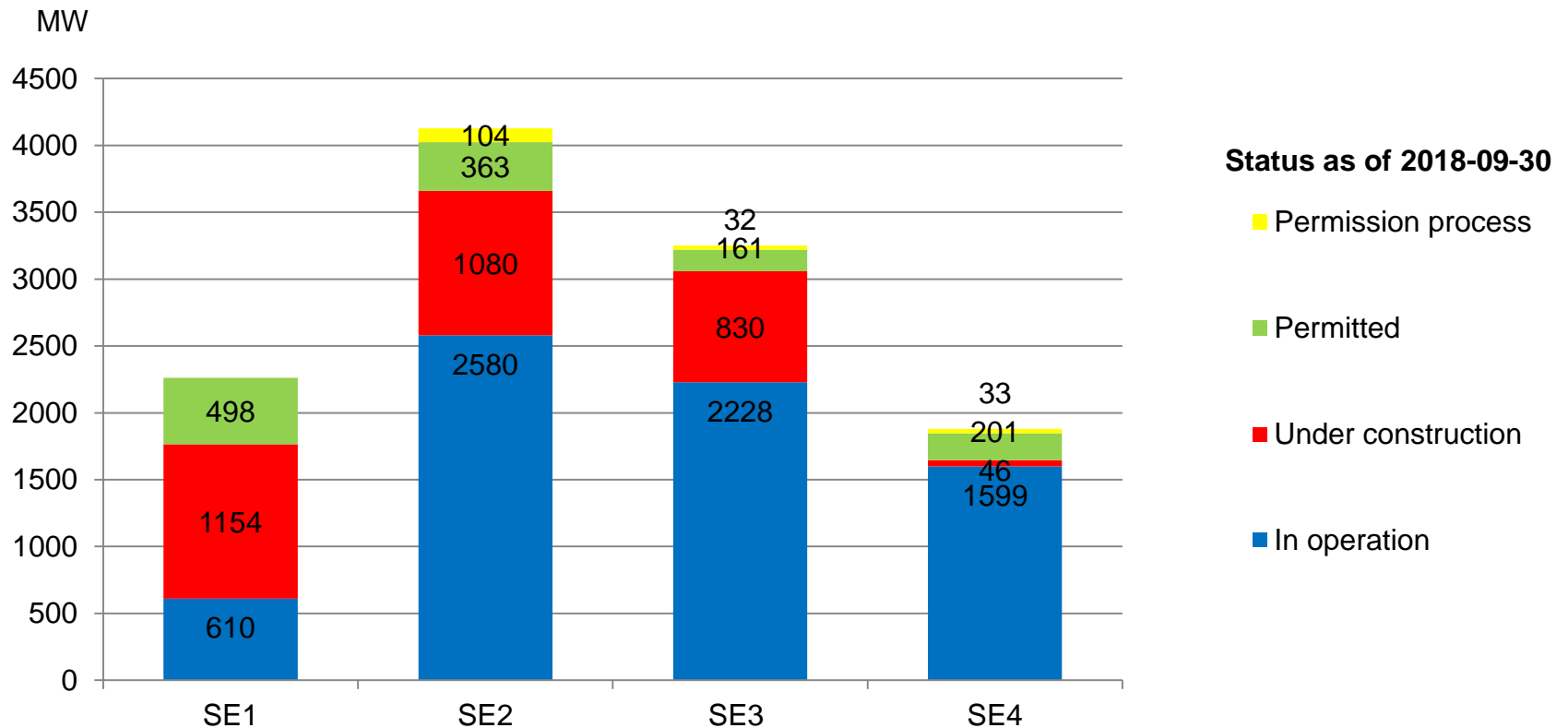
Time plan according to turbine manufacturers for wind power installations during year (MW) *

2017	2018 Q1	2018 Q2	2018 Q3	2018 Q4	2018 (Tot)	2019	2020	2021
199	8	79	339	490	817	2079	188	353



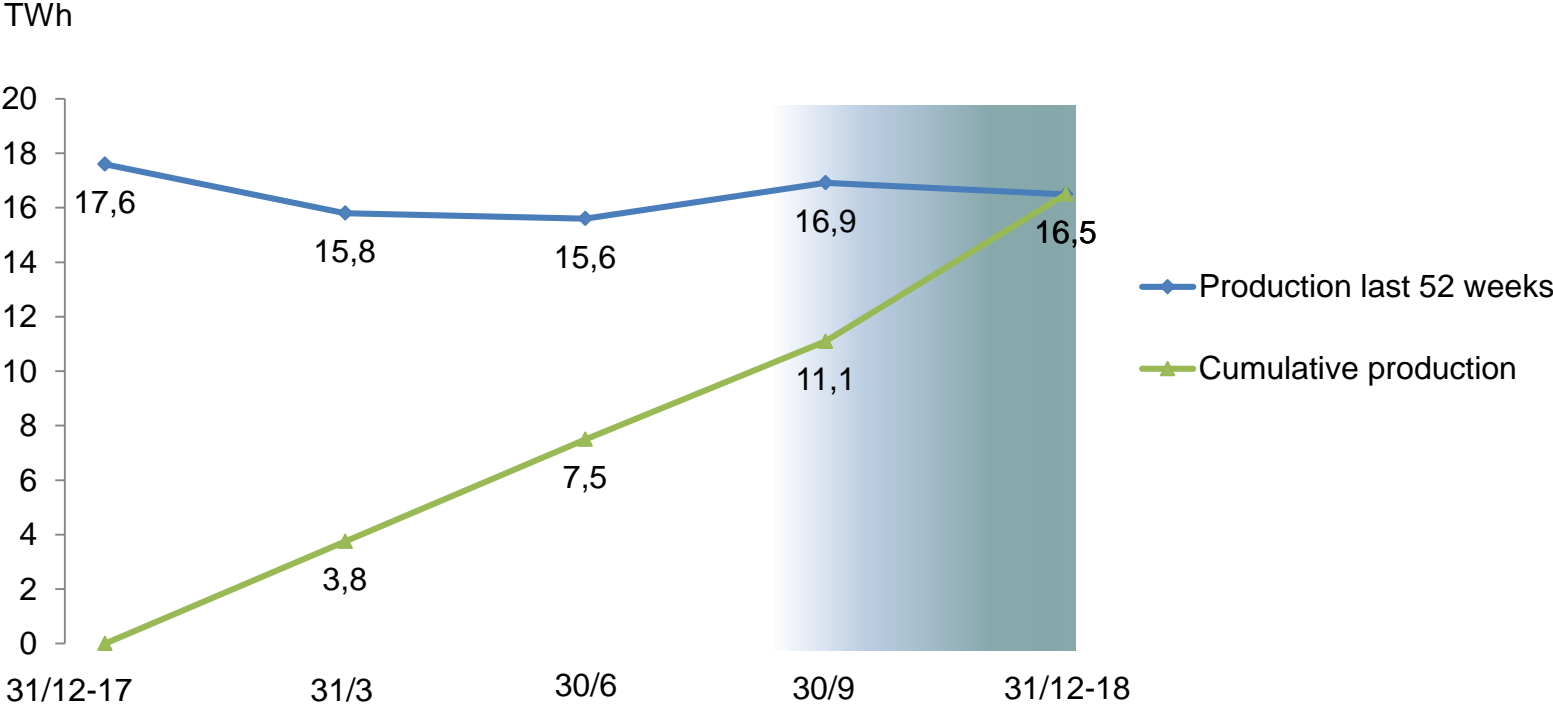
* Figures from all turbine manufacturers acting on the Swedish market

Installed capacity by price area 2021-12-31 (forecast)



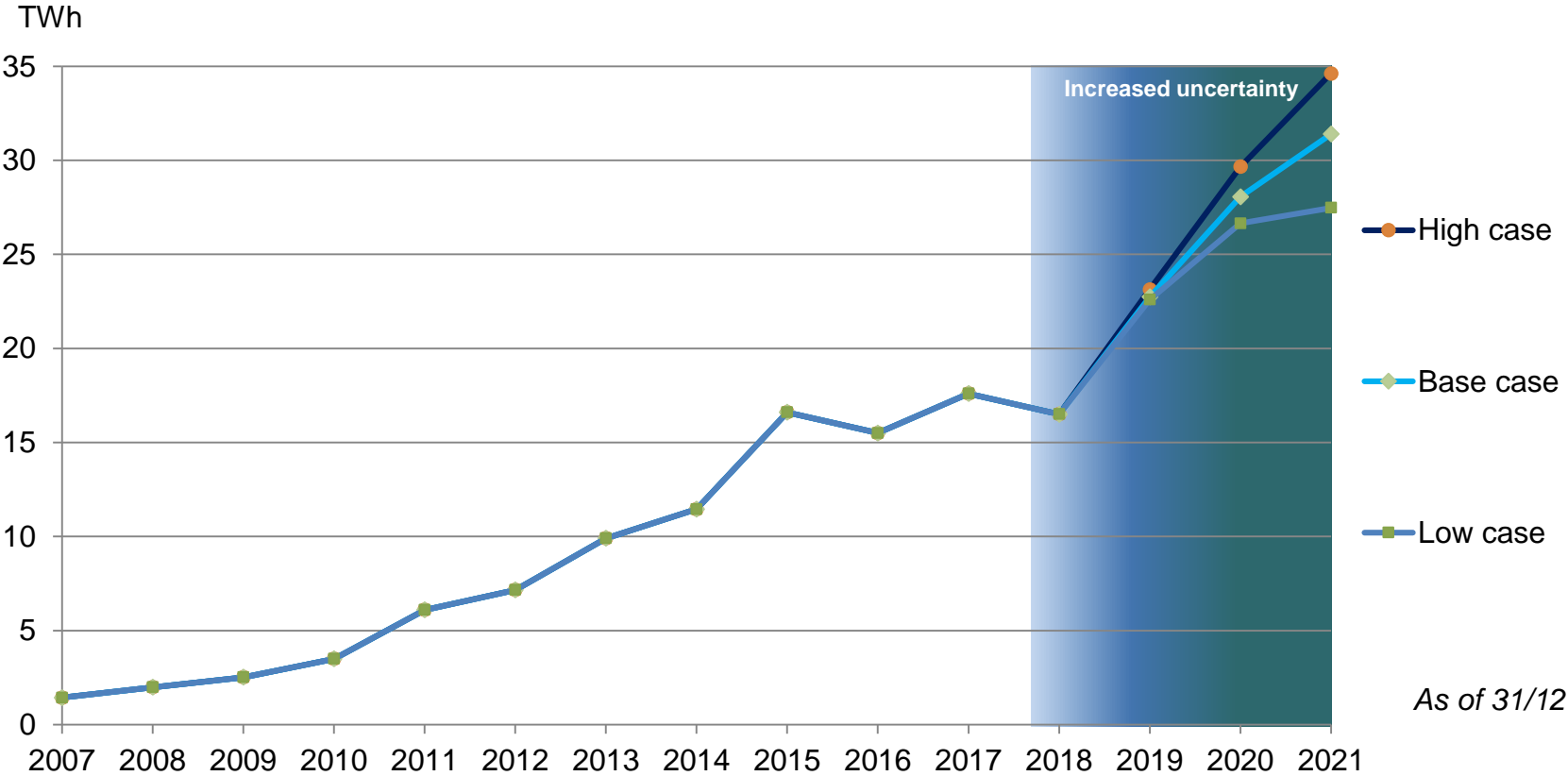
Wind power production 2018 (forecast)

Actual and forecast



Wind power production – different scenarios

Actual and forecast

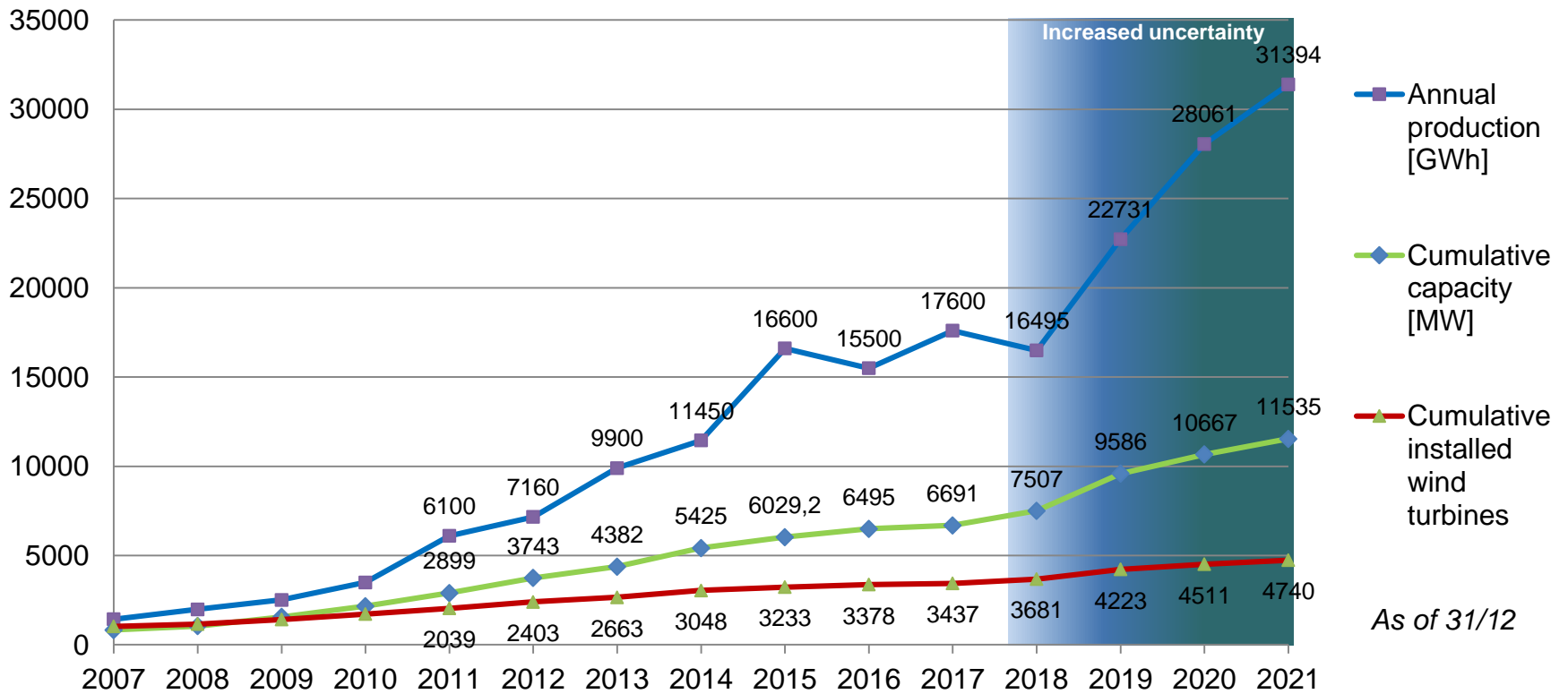


As of 31/12

Base case

This scenario is the most realistic and official forecast of Svensk Vindenergi

Actual and forecast



As of 31/12

Assumptions

Part of wind power project portfolio capacity expected to be realized within given time frame depending on scenario (approximate figures)

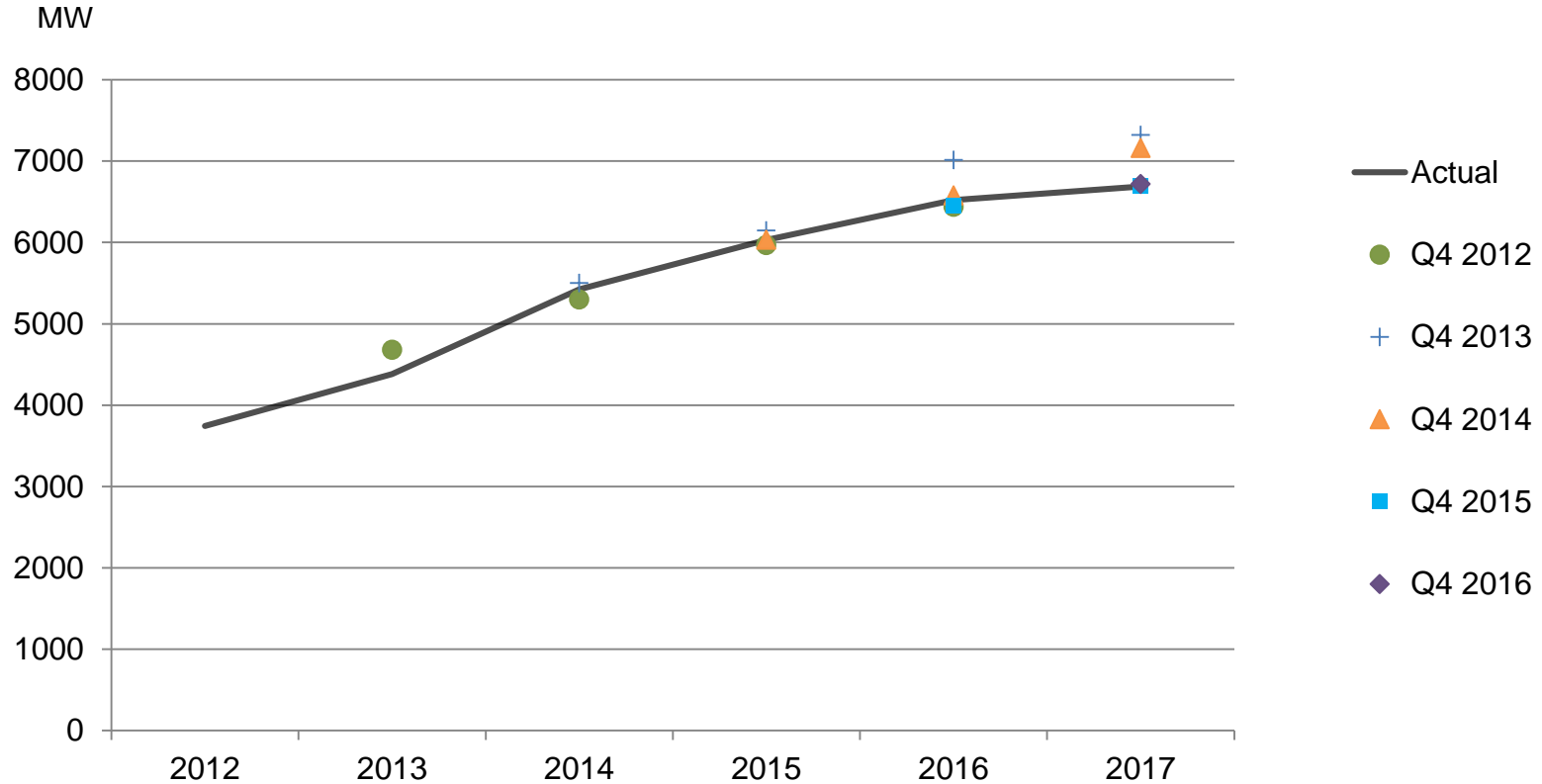
Status	High	Base **	Low
Under construction	100 %	100 %	95 %
Permitted *	20 %	15 %	0 %
In permission process *	10 %	5 %	0 %

* Only onshore wind power are expected to be built.

** The base case reflects a possible scenario based on an assessment of current and future market conditions.

Follow up

Previous forecasts and actual installed wind power capacity



Follow up

Previous forecasts and actual annual wind power production

