



Federal Ministry
for Economic Affairs
and Energy

Onshore wind energy in Germany: new legal framework for tenders

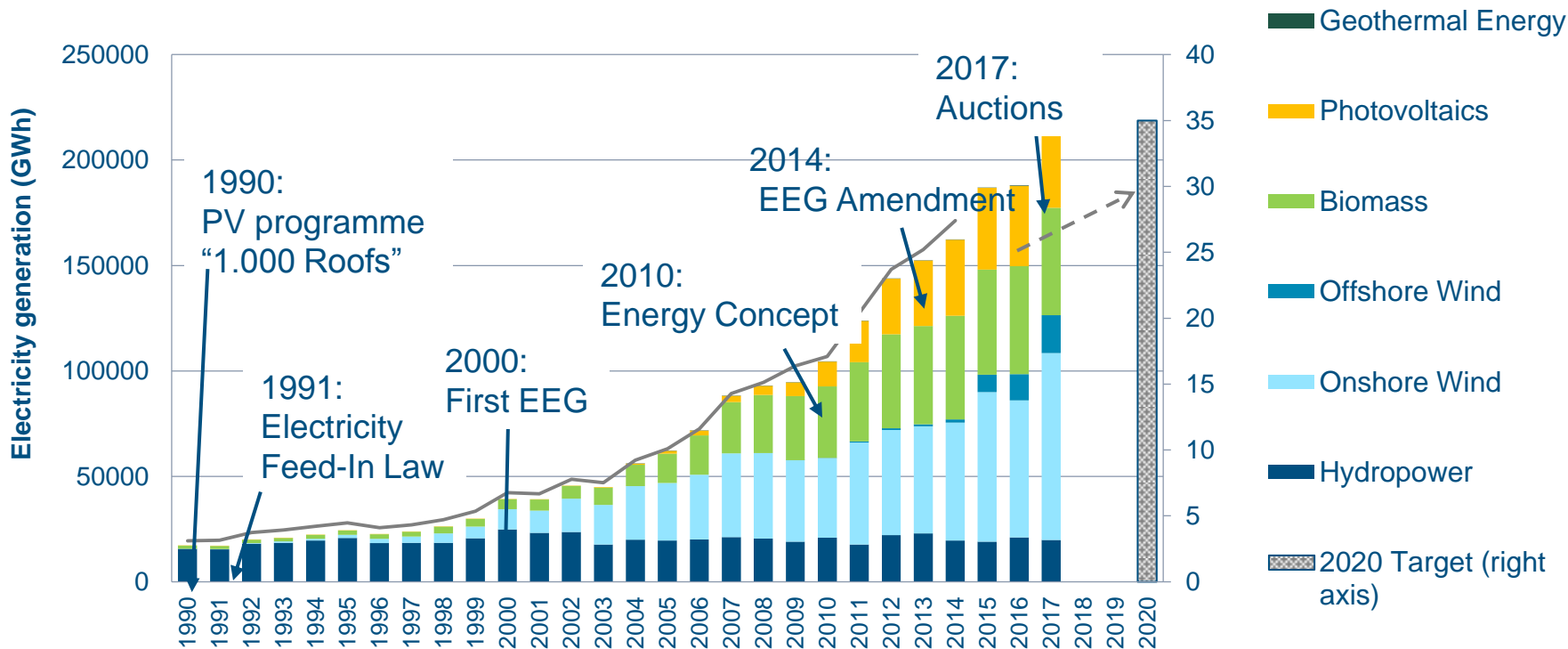
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Milestones Renewable Electricity Generation in Germany



Source: Ecofys 2015, AGEE-Stat 2017

Continuously developed policy support has fostered steady growth of renewables in Germany.



Renewable Energy Sources Act (EEG)

- Guaranteed grid access
- Priority transmission and distribution
- Fixed price for every kWh produced
- Different Tariffs for each type of technology
- Additional costs for renewable energy production are offset through the EEG levy (2018: 6,79 ct/kWh)
- Additional costs are offset via grid operators and independent of the public budget
- Regular monitoring and evaluation
- Accompanying research



Competitive auctions

Up to 4 auction rounds per year conducted by Federal Network Agency

Start 2017

- onshore wind energy
 - 2017 - 2019: 2800 MW per year
 - as of 2020: 2900 MW per year
- offshore wind energy
- photovoltaics
- Biomass

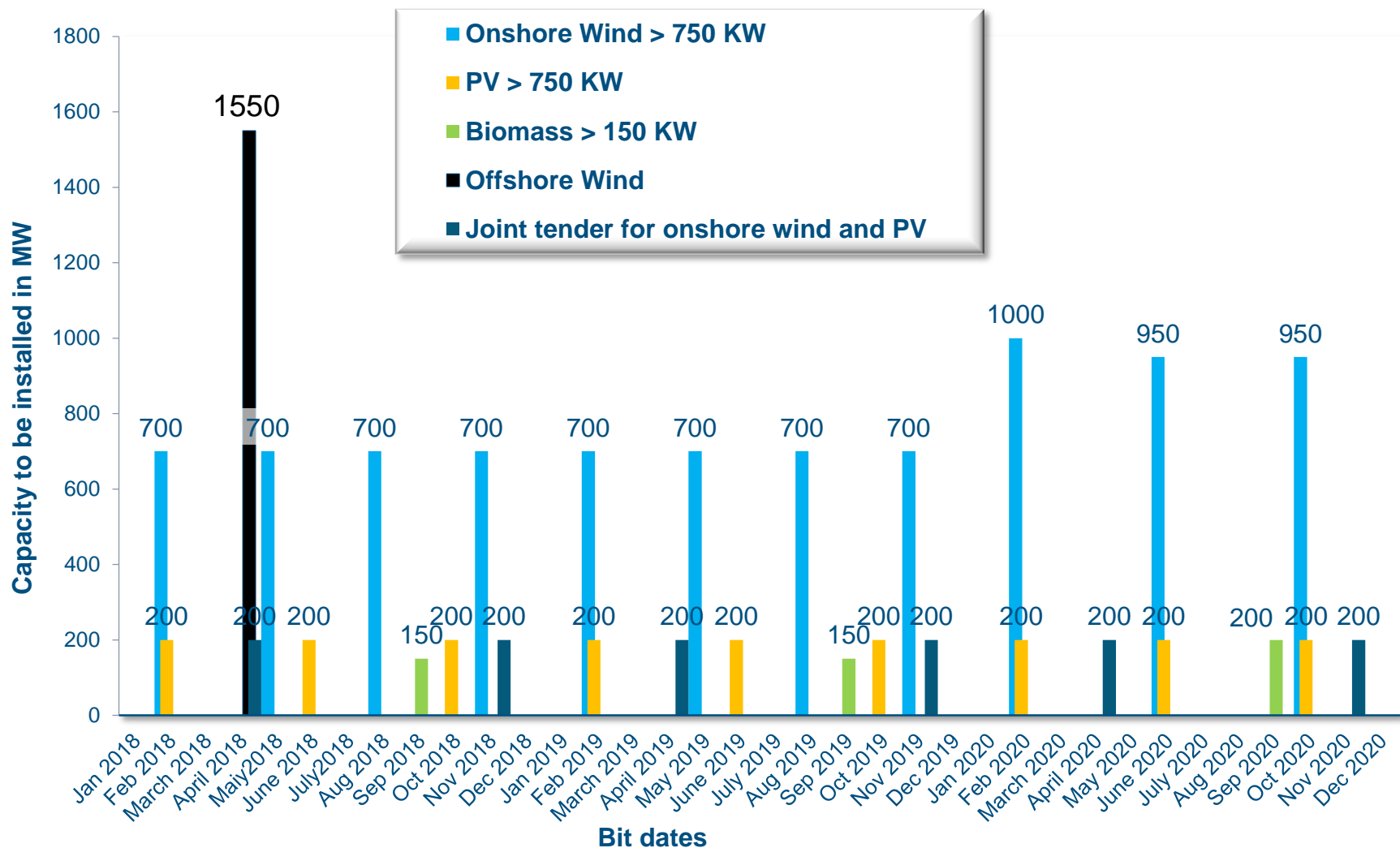
For 80% of RE production

Exemptions for small installations





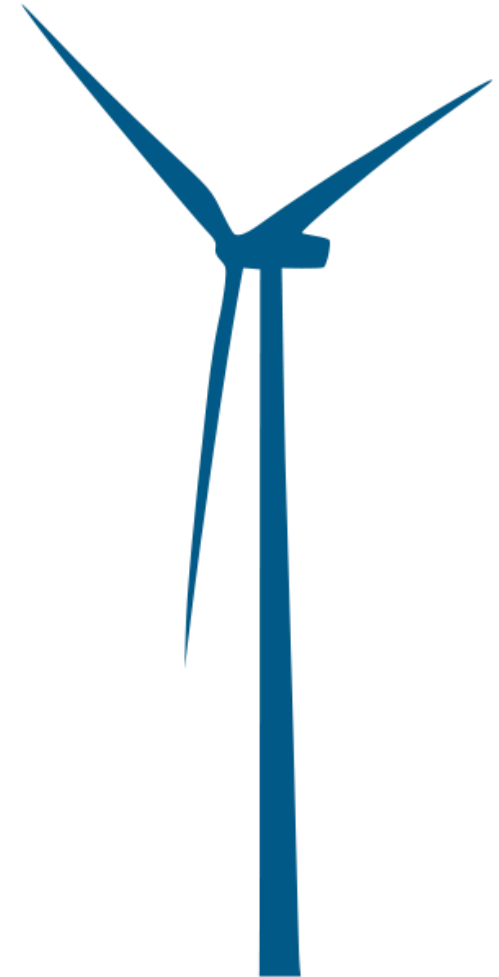
Tender dates and volumes according to EEG 2017 2018 to 2020





EEG 2017 - Tendering scheme

- Restricted auctioned volume
- Only price is decisive
- Floating market premium (ct/kWh)
 - Pay as bid
- Exemptions:
pilot wind energy plants (125 MW/yr)





EEG 2017 - Tendering scheme in general

Phase 1	Phase 2	Phase 3
Federal Network Agency : Announcement	Federal Network Agency : Assessment of tender responses <ul style="list-style-type: none">• Bid bonds• Sorting• Awards	Investor: <ul style="list-style-type: none">• Realisation within the period prescribed• Identification of reference value
Investor: <ul style="list-style-type: none">• Bidding• Complying with requirements of prequalification	<ul style="list-style-type: none">• Publication and information of bidders	<ul style="list-style-type: none">• Penalty in case of no realisation (bid bond not returned)



Tendering scheme – Onshore Wind

- In **2017 – 2019 : 2,800 MW** and from **2020 : 2,900 MW** will be **auctioned each year.**
- Prequalification: Approval pursuant to Federal Immission Control Act
- Bid bond: 30 €/kW or bank guarantee
- Realisation period: 30 months
- Maximum price: 7 ct/kWh at 100% quality site according to the single-tier reference revenue model; as of 2018: 6,3 ct/ kWh
- Awarded bid tied to an approved plant (site-related)



Prequalification of >750kW wind turbines

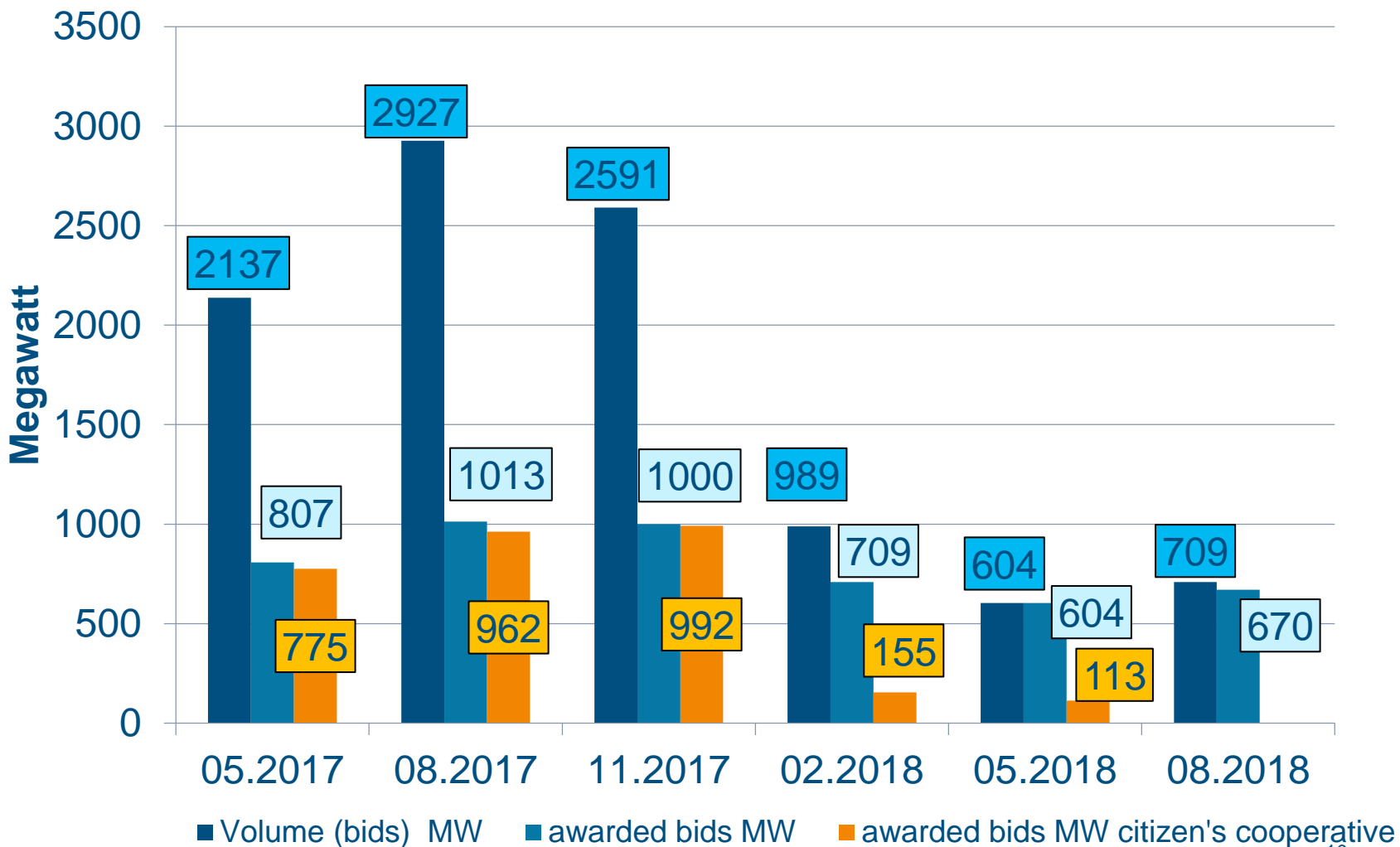
- Required:
 - immissions act for the bidding turbine
 - no award before
 - no use of own supply
 - 30 months realization time after auction

- locally anchored citizens' energy companies
 - Easier to take part
 - No need for an immissions act
 - Get the highest price
 - Offer 10% to local municipality
 - Realization time up to 2 years longer
 - no advantages until 2020



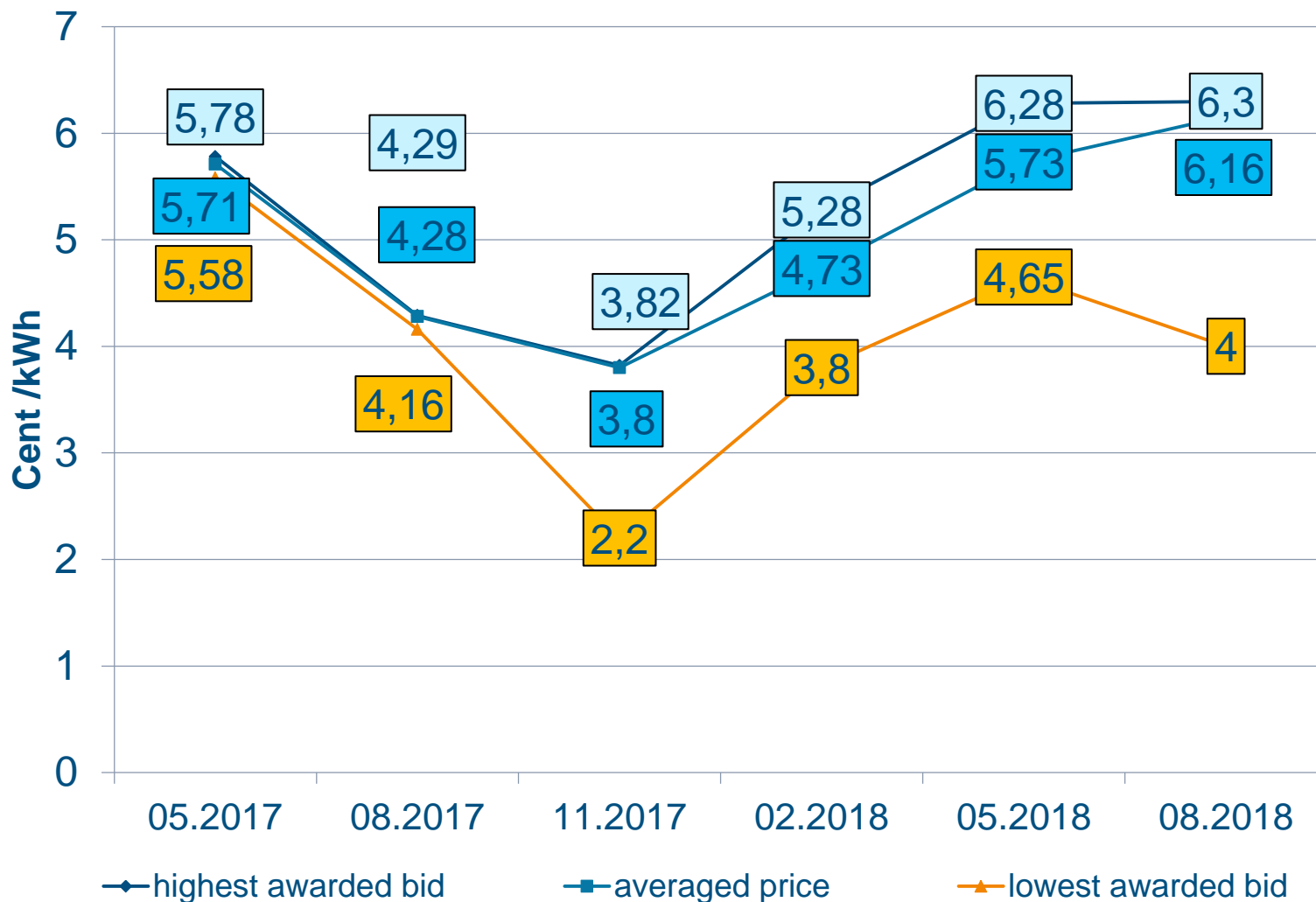


Auction scheme Wind onshore – Results I



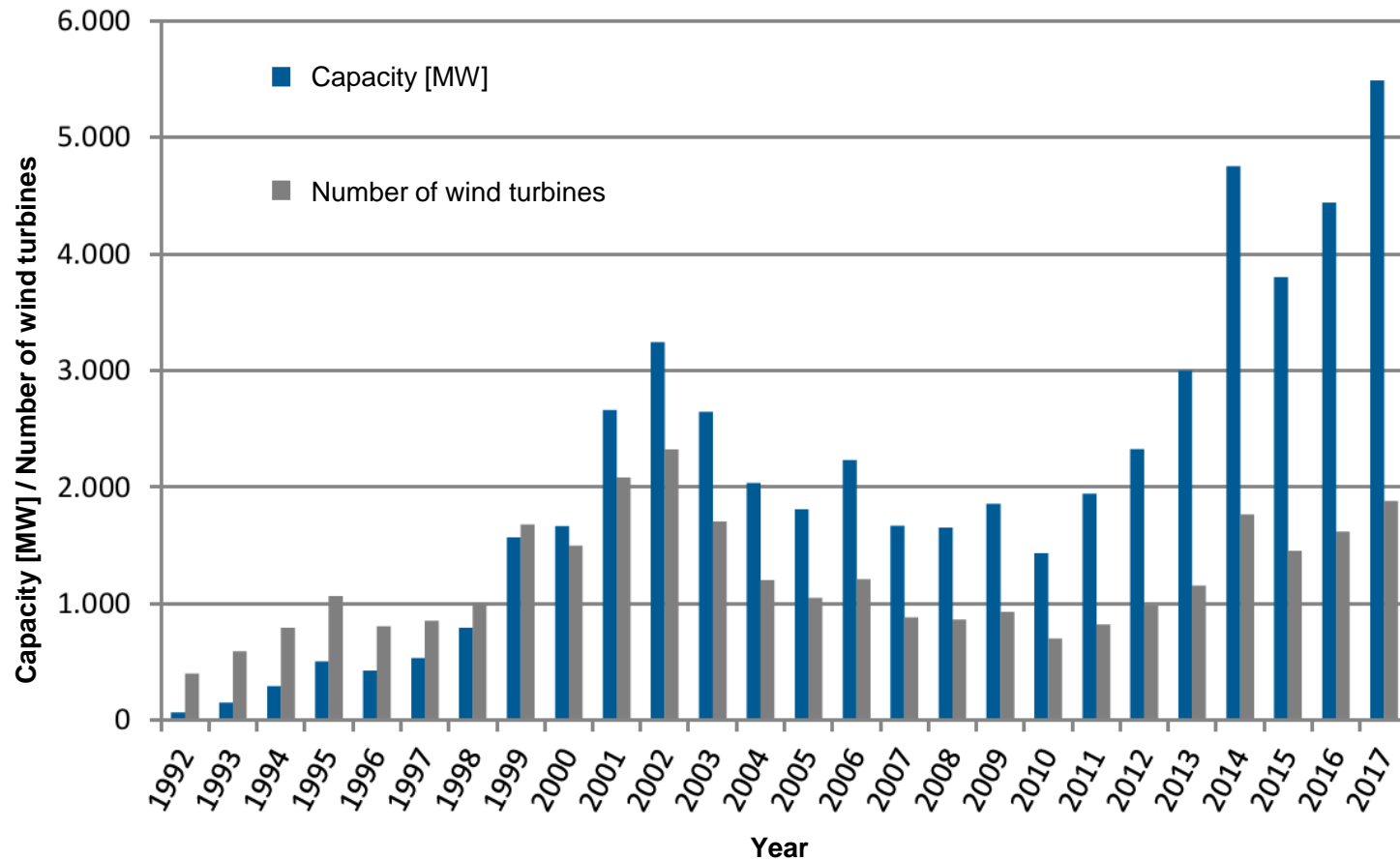


Auction scheme Wind onshore – Results II





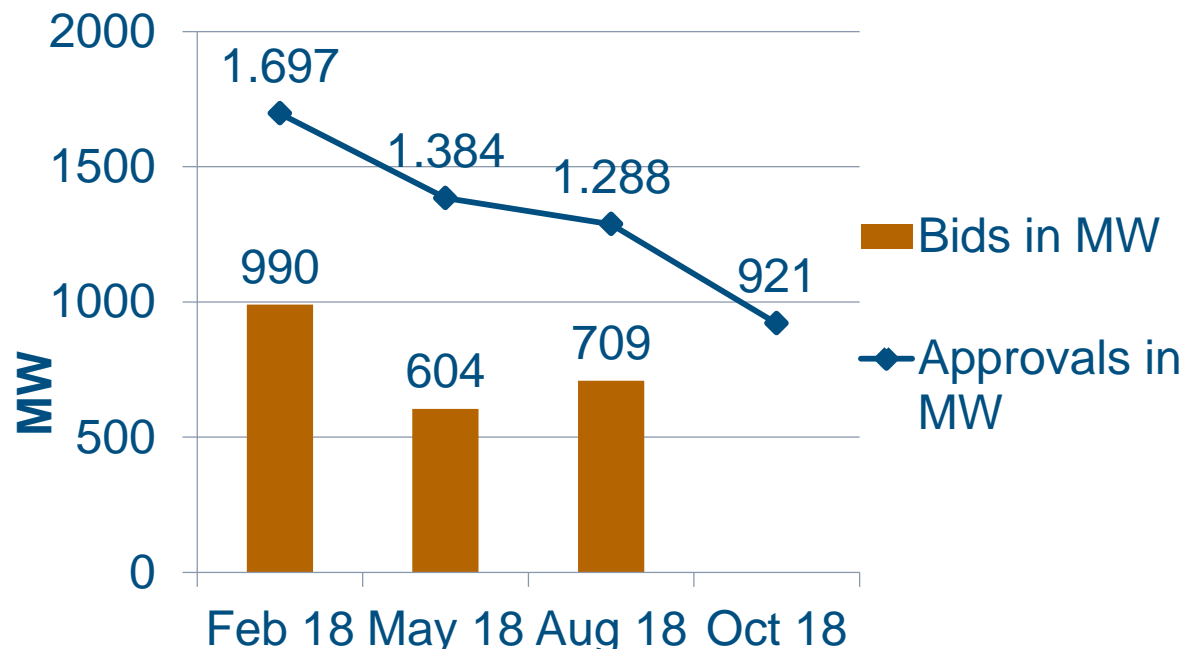
Annual onshore wind installations in Germany:





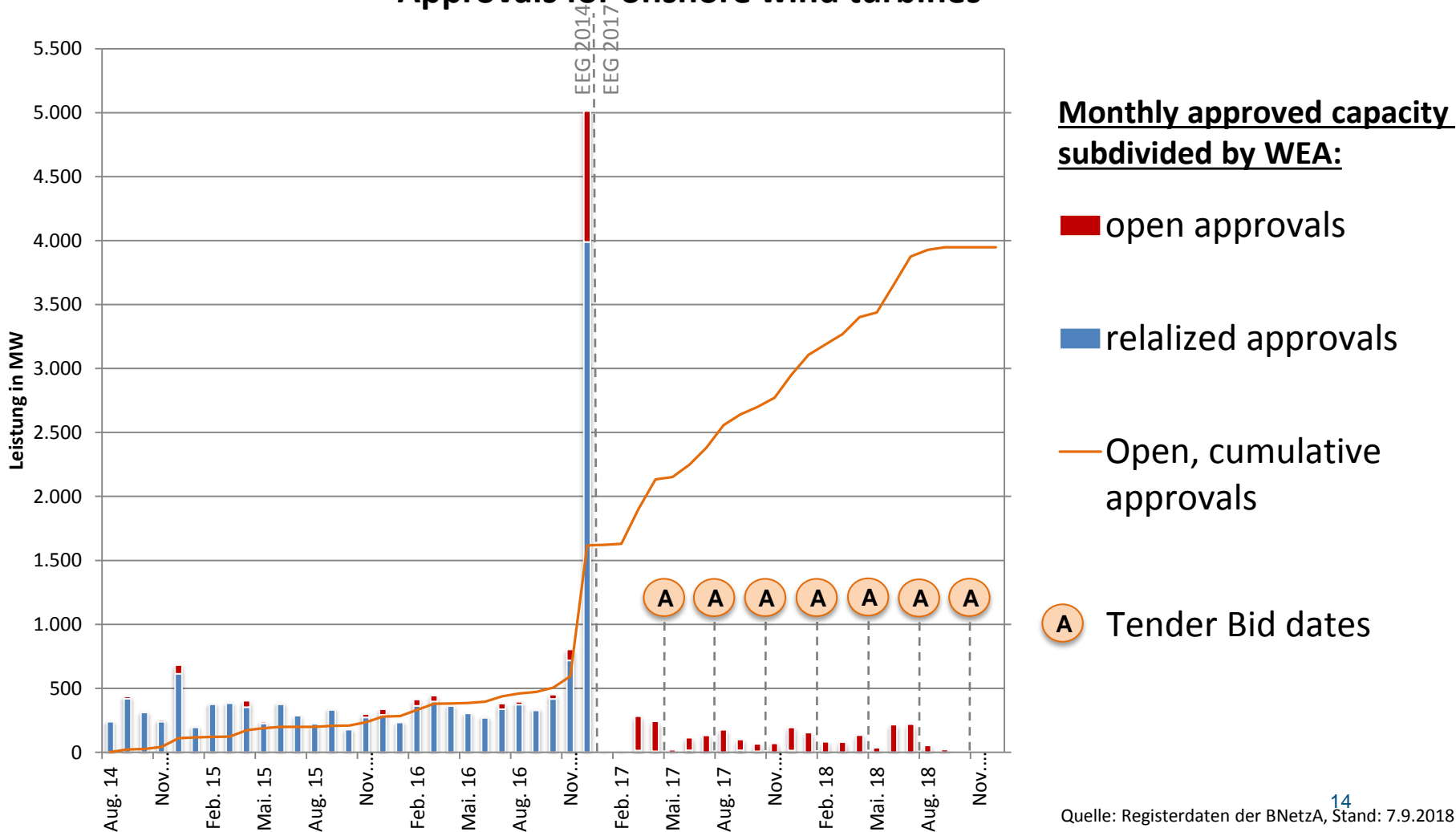
Need of an overcapacity of approvals

Eligible approvals in Megawatt



Existing approvals

Approvals for onshore wind turbines





EEG 2017 – Outlook

- Ordinance for **technology-neutral pilot tender** about 400 MW/year (2018-2020)
- Ordinance for **Innovation Pilot** about 75 MW/year (2019-2020)

