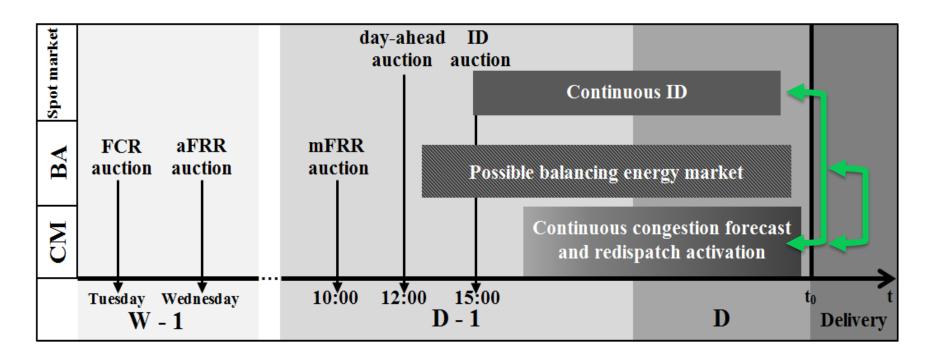






Rethinking short-term electricity market design



Market segment integration (MSI) is defined as the interaction between and possible combination of market segments, i.e. intraday market (ID), congestion management (CM) and balancing market (BA).





4 trigger for the discussion





The integration of significant amounts of intermittent renewable capacity is challenging the power system and will lead presumably to increasing congestion issues at all voltage levels.



Conventional units are leaving the market and congestion management will inevitably rely in the future on smaller units/small-scale flexibility.



DSOs expect also the need for congestion management on their voltage levels. This triggers the necessity for a **coordinating mechanism between TSOs and DSOs**.



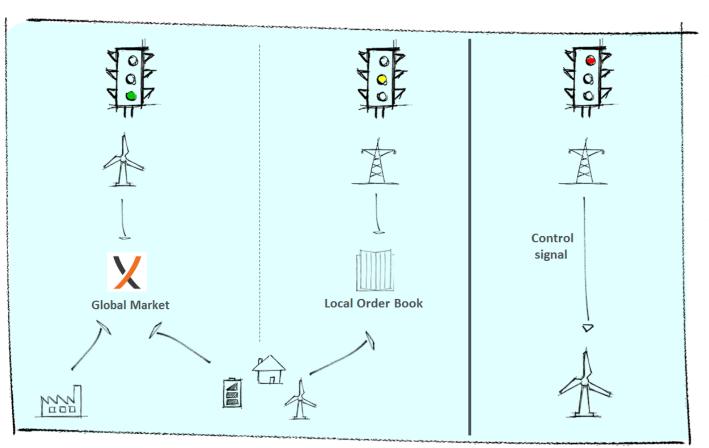
The **CEP** is requesting a mandatory **market-based redispatching process**. Non-market-based redispatching shall only be used where no market-based alternative is available. SO's would have to manage occurring congestion relying on voluntary bids(?)

09.02.2018





Idea: Development of locational **o**rder **b**oo**k**s. LOBKs are one-sided markets and any certified flexibility provider can participate. TSOs + DSOs can use ID bids with locational tags and ex-ante price formation to solve local grid problems.



- project started in 2017 and has a duration of 4 years.
- with partners
 i.a. EWE AG,
 EWE Netz,
 Avacon NETZ,
 EPEX Spot,
 UDE, TenneT.

09.02.2018

Sum up



- Detachment of market and system operations one of the main challenges to solve
- Flexibility discussion triggered (mainly!) by this congestion issue
- SINTEG project will explore in practice chances and limitations of market-based redispatch for Germany
- Open questions
 - Interaction on other market segments
 - Remuneration
 - Liquidity issue
 - Coordination TSO + DSO

- ...

09.02.2018 6