

# Market based redispatch: challenges and opportunities

**ENTSO-E Stakeholder webinar** 

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## Background and key messages

- •Is it a problem?
- Why we need markets
- Mitigating measures
- Practical example

DNV·GL

MARKET-BASED REDISPATCH IN THE DISTRIBUTION GRID

#### WHY IT WORKS!

NODES AS

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## Yes – there are two potential problems

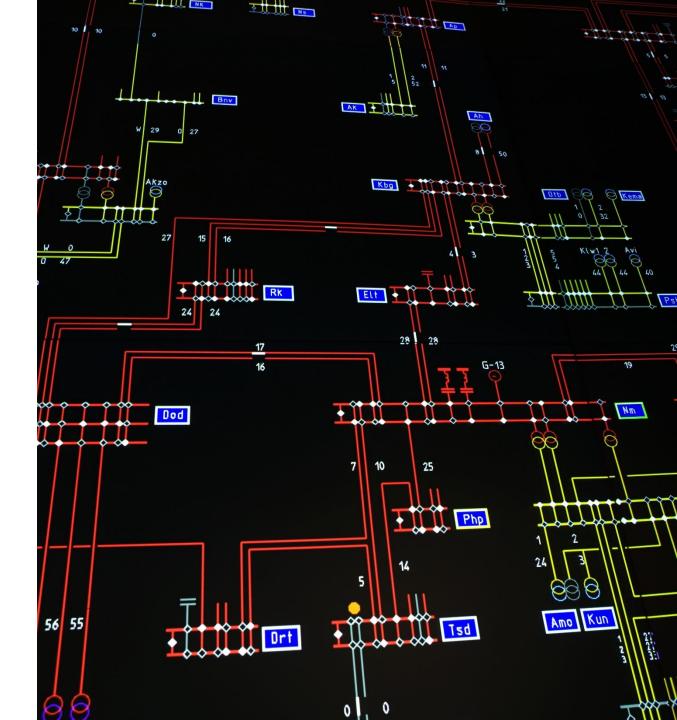
 Consecutive markets with different boundaries or constraints

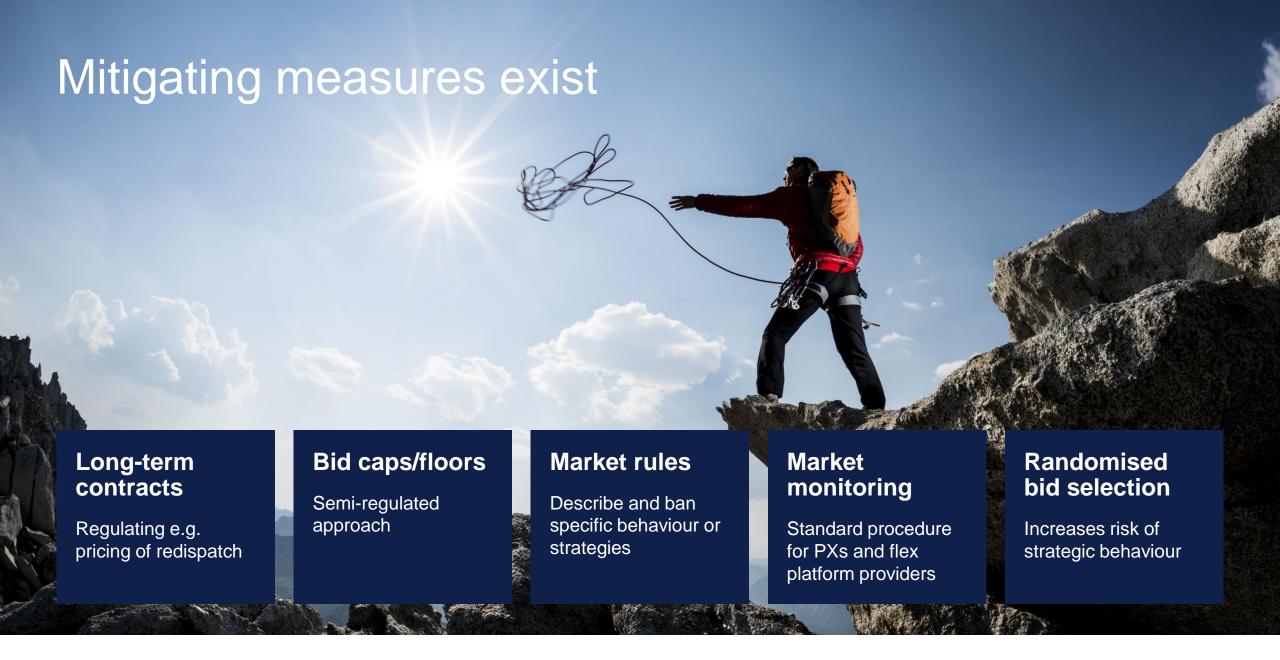
 Congestions below transmission level



### Do we need market based redispatch?

- Congestions not only unavoidable, but beneficial if the cost of relieving congestions is lower than the cost of grid expansion
  - · Demand side resources vs.
  - Dynamic line rating and better/more monitoring
- While cost functions for most power production technologies are well-known, the costs of load-shifting and demand side flexibility is less transparent











#### Regulated redispatch – two different discussions(?)

TransmissionSize of BZ

#### Distribution

 Activate demand side – via markets







## Thank you – the floor is yours!

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