

## NBM stakeholder meeting 2020-08-27

Memo – Process for activating products

Summary and interactive session

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# Agenda

- Short summary of [updated memo](#)
- Interaction – Kahoot questions
- Q&A – Send in your questions
  - In advance
  - In chat as we speak
  - Unmute and ask your question

# Steps NBM implementation



TSOs:

- Develop new tools and start to use them individually

BSPs

- Transition to new bid formats

TSOs:

- NBM balancing in use. Fall-back possible.

BSPs

- New activation pattern

TSOs:

- Fall-back to traditional bal. model not possible

BSPs

- 15 minute bids, prices, settlement

TSOs:

- European, nor nordic AOF
- Balancing on HVDCs

BSPs

- Larger market

## The TSO process for mFRR scheduled activation



12 BZ • 4Q • 24h  
= 1152  
mFRR-loops per  
day in Norden!

## Parallel operation – what will change - from the BSP (1/3)

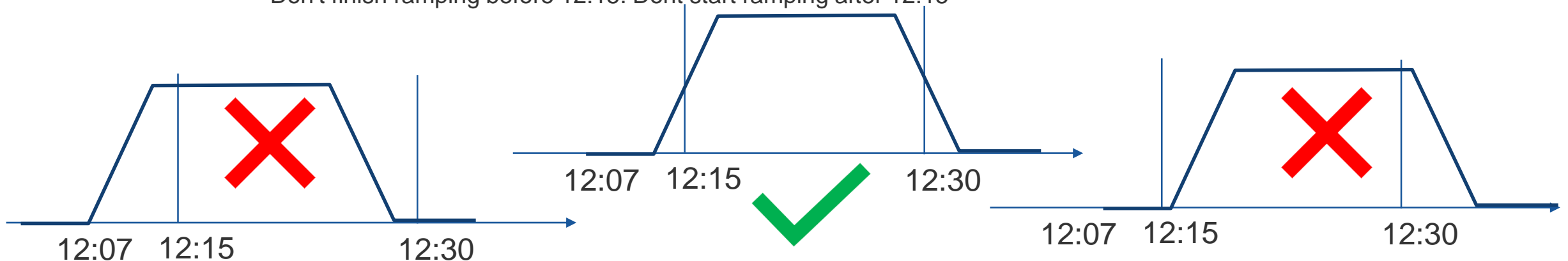
- Still one marginal price per hour
- Still mostly 60-minute bids
- TSO process based on 15 minutes
  - *Fresh look* at the expected imbalance every 15 minutes
  - No guarantee that an activation lasts more than 15 minutes
    - No such minimum activation time today, but some norms exists
  - **BSPs should expect different activation pattern**
- Electronic activation for all activations
  - BSP decline of activation orders should be reduced to a minimum
  - Automation may be necessary for BSPs as well?

## Parallel operation – what will change - from the BSP (2/3)

- TSO needs more information in the bids to avoid making unfeasible activations
  - Automatic process leave less room for dialogue and operator fingerspitzgefühl
- Bid attributes
  - Minimum activation volume and indivisible bids
  - Exclusive groups
  - Conditional bids – Q0 result affects Q1/Q2 availability
  - Parent-child
  - Max duration
  - *Scheduled only*
  - Inclusive bids – "if you activate this, you must also activate this"
  - Location/resource object

## Parallel operation – what will change - from the BSP (3/3)

- Activation profile – clear expectations
  - BSP response varies a lot today. It can be "As soon as possible" or it can be "finish activation before.."
  - Predictable response will be more important
- Typical activation
  - 12:07:30: Activation order sent for delivery in the quarter 12:15-12:30
  - Timestamp of the activation will be 12:15
  - The desired response is similar to the standard product
    - Don't finish ramping before 12:15. Dont start ramping after 12:15



# Other market design features

	Today	Parallel operation ( Q2 2022-Q2 2023)	After 15 min ISP but before connection to MARI	When connecting to MARI
Full Activation Time, FAT (minutes)	15	To be determined	To be determined	12,5
Maximum/minimum price (EUR/MWh)	5000/no minimum price	To be determined	To be determined	99 999/-99 999 <sup>1</sup>
Minimum bid size (MW)	5 or 10	1, 5 or 10	1, 5 or 10	1
BSP bid time resolution for price and volume (minutes).	60	60 and 15	15	15
Marginal price resolution (minutes)	60	60	15	15
Bid activation	Electronic and manual	Electronic	Electronic	Electronic
Gate closure time	H-45 min <sup>4</sup>	H-45 min	Q-45/25 min	Q-25 min



# Potential additional processes to handle imbalance and congestion

- Period shift product
- Bottleneck product/pre-real time process
- Faster or slower activation time products