

# 15 min imbalance settlement period – way forward

24.03.2022 / NBM reference group meeting

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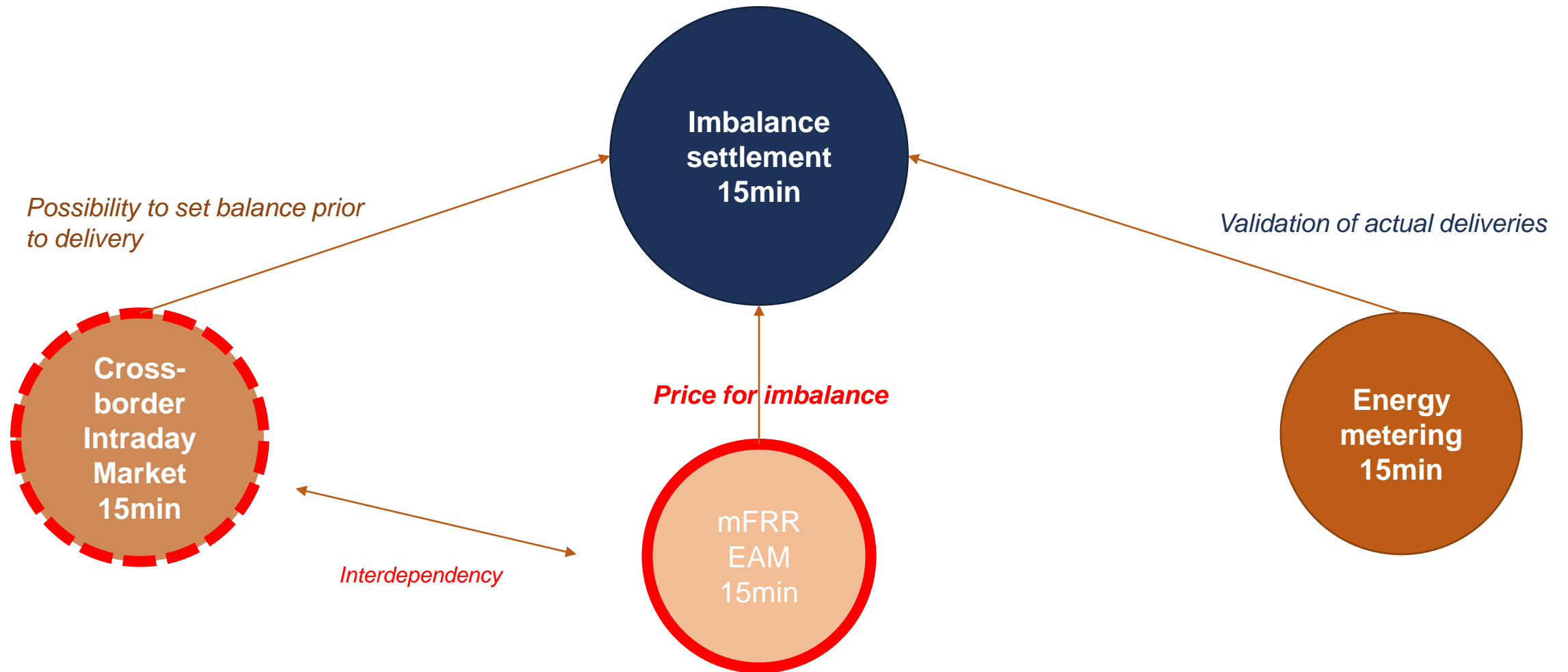
# Agenda

- Impacts of mFRR EAM delay on 15 min ISP
- Way forward
- eSett implementation
- Individual TSO plans

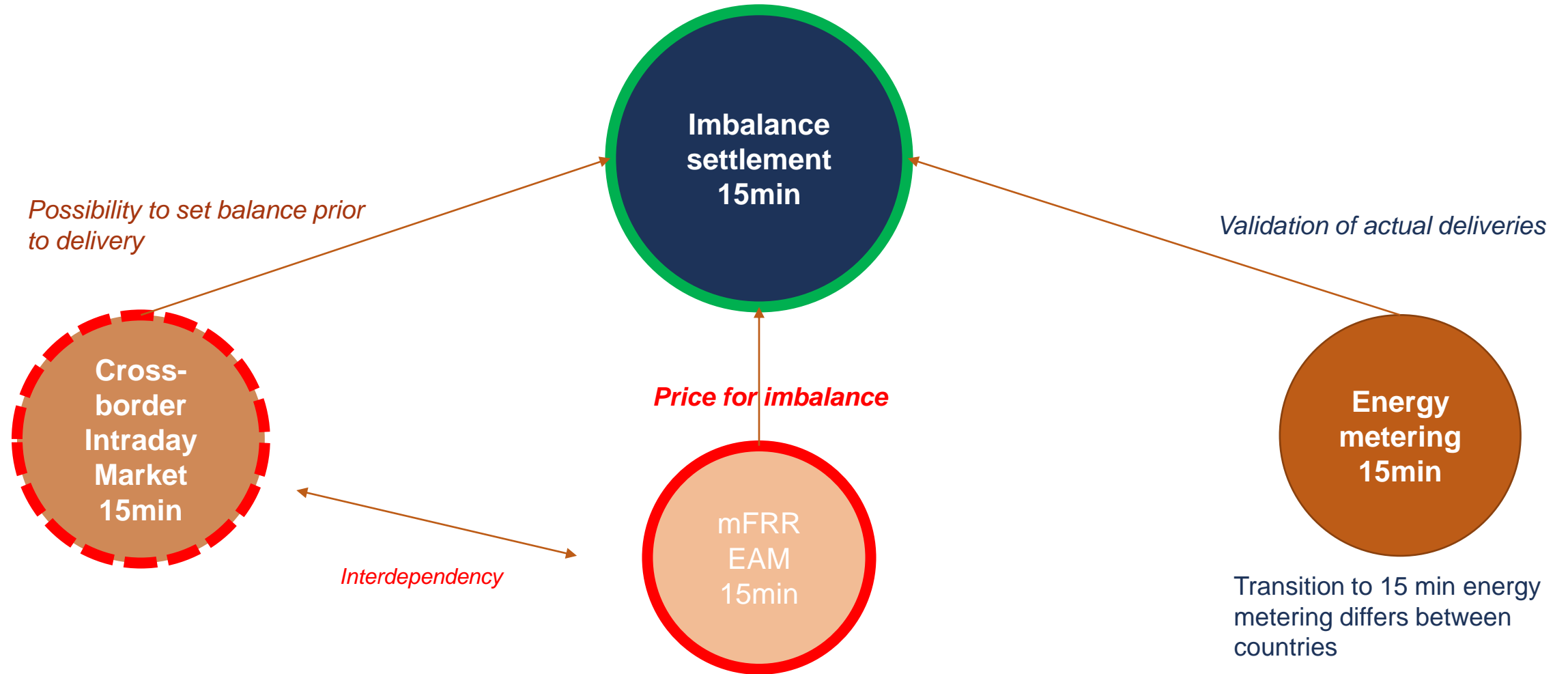




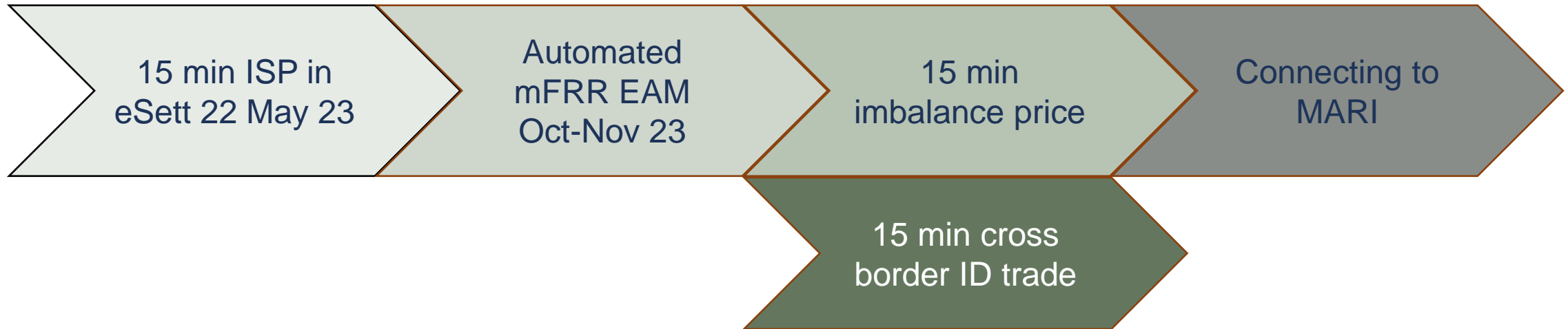
# Delay of mFRR EAM impacts 15 min ISP



# Technical implementation of 15 min ISP assures eSett implementation



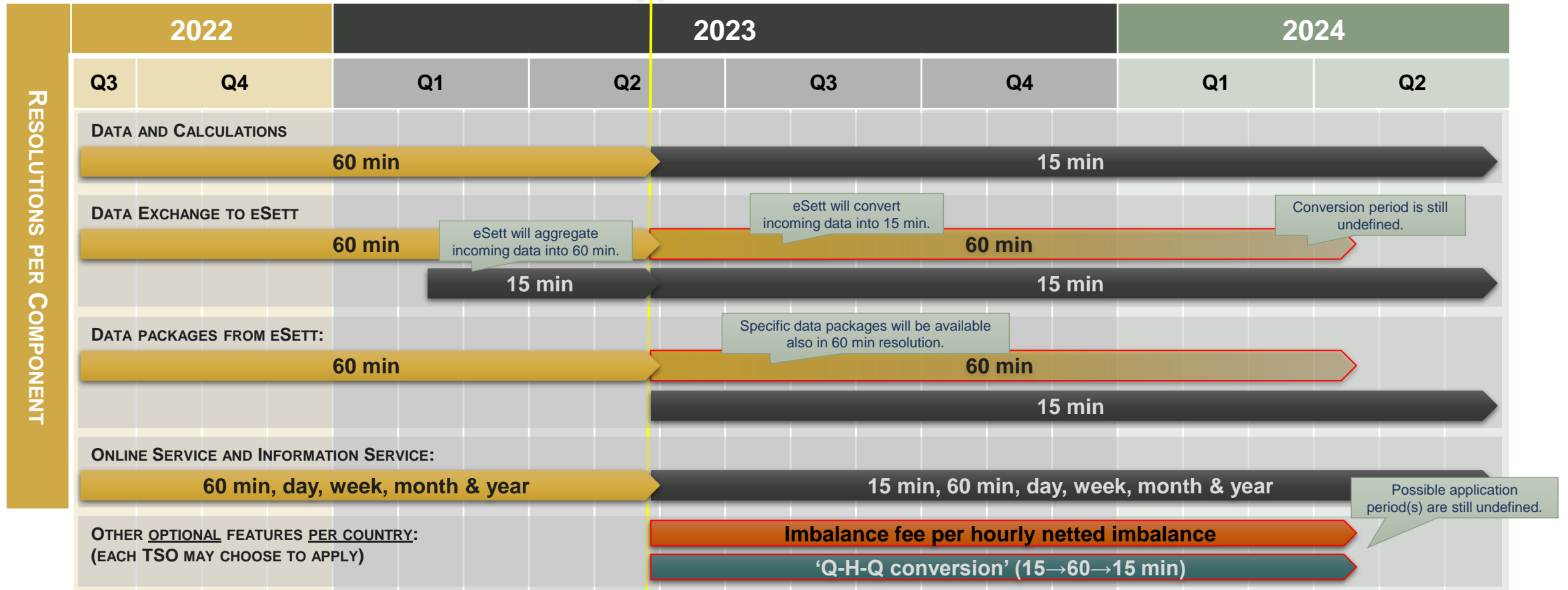
# Moving stepwise towards the full value chain of 15 min ISP



# eSett implementation of 15 min ISP

# eSett implementing 15 min ISP

★ 22.5.2023



# eSett: What will happen on 22.5.2023?

- eSett's system and calculations switches to 15 min
- eSett is still able to receive data in 60 min resolution (subject to the local regulation)
  - eSett converts it into 15 min resolution
- Imbalance price will be same for each quarter within an hour
  - In combination with "Hourly netted imbalance fee" the *financial settlement* won't change
  - In combination with "Q-H-Q conversion" the energy quantities won't change
    - 15 min data is displayed and sent out, but it is purely hourly data converted into 15 min slots
- Outbound data is *mainly* on 15 min, but most of the data can still be received and viewed also on hourly level
- Each TSO will coordinate with eSett to align on the options, next steps and communication needs.



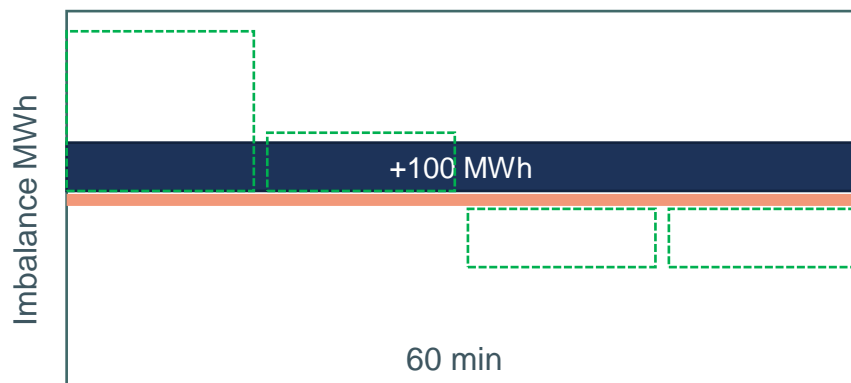


# Imbalance costs during the intermediate period

No uncontrollable costs for BRPs due to intermediate solution

Today: Imbalance settlement period 60 min, single price model

Imbalance price 50 €/MWh (example)



BRP imbalance cost over an hour

$$+100 \text{ MWh} \times 50 \text{ €/MWh} = +5000 \text{ €}$$

**5000 €**

Country option A:  
From 22.5.2023 until 15min imbalance prices & 15min cross-border intraday market  
"Actual quarterly imbalances"  
Same imbalance price for each quarter of an hour 50 €/MWh (example)



BRP imbalance cost over an hour

$$\begin{aligned} +150 \text{ MWh} \times 50 \text{ €/MWh} &= +7500 \text{ €} \\ +50 \text{ MWh} \times 50 \text{ €/MWh} &= +2500 \text{ €} \\ -50 \text{ MWh} \times 50 \text{ €/MWh} &= -2500 \text{ €} \\ -50 \text{ MWh} \times 50 \text{ €/MWh} &= -2500 \text{ €} \end{aligned}$$

**5000 €**

Country option B:  
From 22.5.2023 until 15min imbalance prices & 15min cross-border intraday market  
"Identical quarterly imbalances"  
Same imbalance price for each quarter of an hour 50 €/MWh (example)



BRP imbalance cost over an hour

$$\begin{aligned} +25 \text{ MWh} \times 50 \text{ €/MWh} &= +1250 \text{ €} \\ +25 \text{ MWh} \times 50 \text{ €/MWh} &= +1250 \text{ €} \\ +25 \text{ MWh} \times 50 \text{ €/MWh} &= +1250 \text{ €} \\ +25 \text{ MWh} \times 50 \text{ €/MWh} &= +1250 \text{ €} \end{aligned}$$

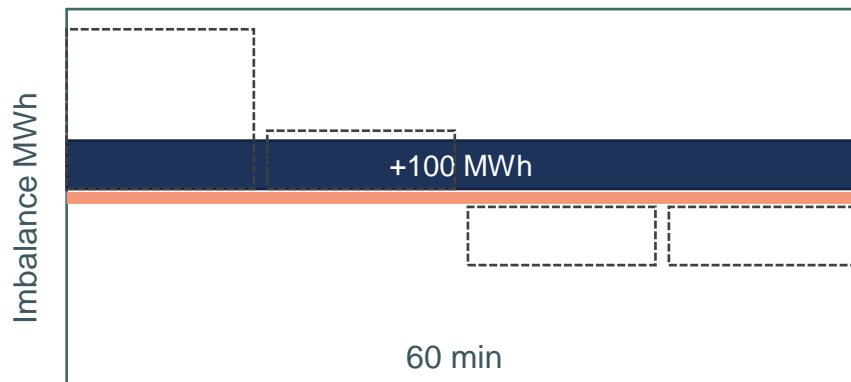
**5000 €**

# Imbalance fee during the intermediate period

No uncontrollable costs for BRPs due to intermediate solution

Today: Imbalance settlement period 60 min, single price model

Imbalance fee 1,15 €/MWh (example)



BRP imbalance fee over an hour

$$\begin{aligned} +100 \text{ MWh} \times 1,15 \text{ €/MWh} &= +115 \text{ €} \\ &115 \text{ €} \end{aligned}$$

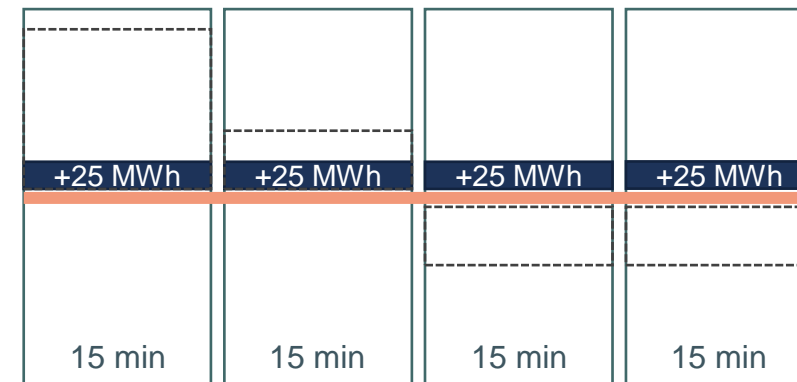
Country option A:  
From 22.5.2023 until 15min imbalance prices & 15min cross-border intraday market  
"Actual quarterly imbalances"  
Imbalance fee will be calculated for the hourly netted volume, 1,15 €/MWh (example)



BRP imbalance fee over an hour

$$\begin{aligned} (+150+50-50-50) \text{ MWh} \times 1,15 \text{ €/MWh} &= +115 \text{ €} \\ &115 \text{ €} \end{aligned}$$

Country option B:  
From 22.5.2023 until 15min imbalance prices & 15min cross-border intraday market  
"Identical quarterly imbalances"  
Imbalance fee 1,15 €/MWh (example)



BRP imbalance fee over an hour

$$\begin{aligned} (+25 \text{ MWh} \times 1,15 \text{ €/MWh}) \times 4 &= +115 \text{ €} \\ &115 \text{ €} \end{aligned}$$

# Local TSO plans for 22.5.2023

# Energinet

- Energinet will allow all metering data to be received in 15 minute resolution by the end of 2022 in the Danish DataHub
  - The Energinet regulations (terms and conditions) for required 15 meter values will have a public hearing in Q2 2022
  - Tariffs will also be possible in 15 minute resolution
- The DataHub will provide 15 minute values to eSett before May 22<sup>nd</sup> 2023.
  - At aggregated level hourly values will be split by 4 to provide 15 minute data
- The imbalance price in each quarter within the hour will be the same
- The imbalance fee will be netted within the hour

# Fingrid

- **Imbalance settlement period (ISP)** will be 15 min
  - The imbalance price in each quarter within the hour will be the same
  - The imbalance fee will be netted within the hour
- **Datahub** will be ready to receive 15 min data 1.1.2023. DSO imbalance settlement will move to 15 min resolution on 22.5.2023.
- **Energy metering** will move to 15 min resolution by 22.5.2023 according to the national metering decree (VNA 767/2021)
- NEMOs are welcome to offer **15 min intraday products** within the FI – bidding zone
- BRP and BSP **Terms&Conditions** required for 15 min ISP will have a public hearing on 4/2022.



- The Norwegian datahub, Elhub will implement 15 min resolution in two phases:
  - Phase 1 enables Elhub to receive 15 minutes values
  - Phase 2 includes profiling from 60 to 15 minutes values and adjustments of business processes to handle 15 minutes values
- Prerequisite is a transition to cloud storage. This is behind schedule.
- Transition phase between phase 1 and 2 is reduced from 6 to 3 months. Time plan is constrained.
- RME, the regulator, is currently assessing Statnett's request for derogation from 15 minutes ISP. At the same time RME is amending the regulation for metering and settlement and aligning with Statnett and Elhub.
- Imbalance price will be the same and imbalance fee netted within the hour.

# Svenska kraftnät

- There will be no major change for the Swedish market on the 22 of May 2023
- Svenska kraftnät has proposed to the ministry of infrastructure to postpone the requirement of 15 min metering and reporting to 1 November 2023
  - Svenska kraftnät will discuss the impact of the new date with eSett
- Svenska kraftnät will also initiate discussions with BRPs regarding which options available in eSett's system that will be used.

# Questions?