

15 min Imbalance Settlement Period – status update

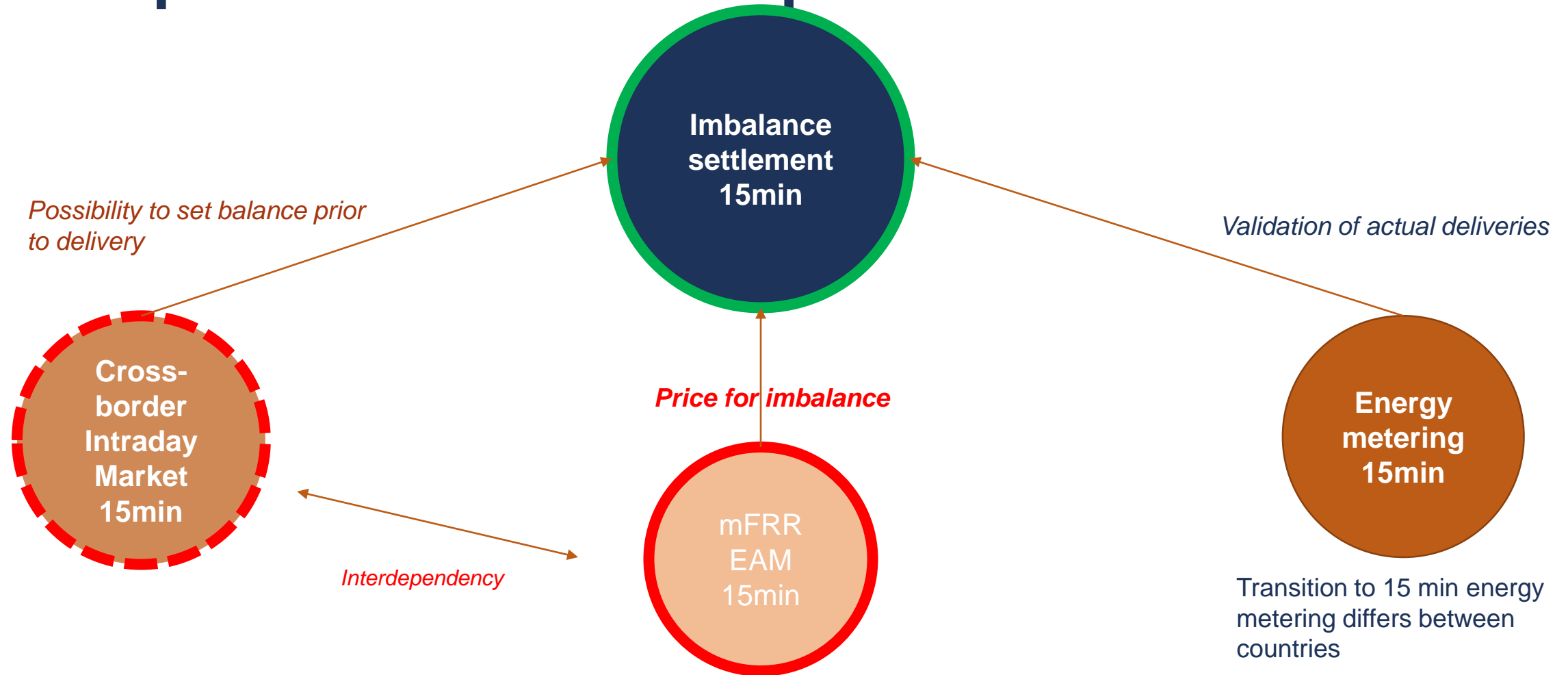
14.12.22

Visit nordicbalancingmodel.net

Agenda

- 15 min ISP components and interdependencies
- eSett implementation
- Local TSO implementation

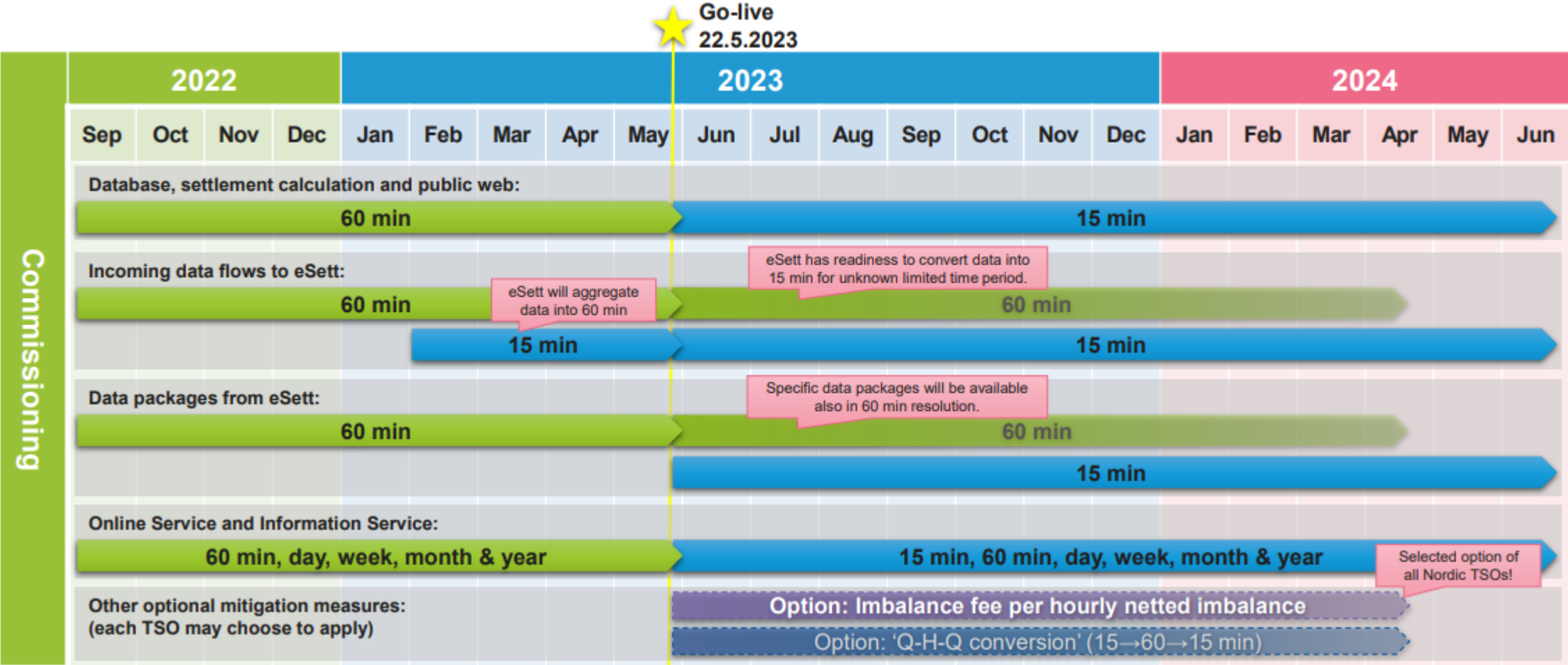
Components and interdependencies



eSett implementation

eSett implemetation

15 min ISP Commissioning Plan (esett.com)



eSett: 22.05.2023

- eSett makes all calculations on 15 min.
 - From 01.02.2023, eSett accepts both 15 min and 60 min data
- Imbalance fee per hourly netted imbalance and hourly imbalance price (same price for four ISPs within an hour)
- 15 min metering and reporting – national timeplans
- More details in eSett's commissioning plan
 - [15 min ISP Commissioning Plan \(esett.com\)](https://esett.com)

Local TSO implementation

Fingrid

- Datahub accepts 15 min data from 2023-01-01
 - Provides 15 min data to eSett 2023-05-22 the latest
- 15 min metering from 2023-05-22
- More information from Fingrid:

15 min ISP project site: www.fingrid.fi/varttitase

15 min ISP “info-package” for stakeholders: [Varttitaseen käyttöönotto 22.5.2023 \(fingrid.fi\)](#)

Latest 15 min ISP webinar 31.10.2022:

presentation material: [Webinaarin esitysaineisto >](#)

recording: [Webinaarin tallenne >](#)

Energinet

- DataHub accepts 15 min data also for consumption starting in February 2023
- Provides 15 min data to eSett from 2023-05-01
- More information from Energinet:

The technical implementation of ISP15 in the DataHub: <https://energinet.dk/Energidata/DataHub/Samarbejdet-omkring-DataHub/Teknik-og-implementeringsgruppen>

Information to specific market participants: <https://energinet.dk/EI/Elmarkedet/Samarbejde-paa-elmarkedet>.

Statnett

- Elhub accepts 15 min data from 2023-09-18
- Elhub provides 15 min data to eSett 2024-01-22
- More information from Statnett:

Webinar arranged by Elhub: [Webinar: 15-minutter balanseavregning - Elhub](#)

Svenska kraftnät

- 15 min metering and reporting to eSett from 2023-11-01
- No changes in reporting 2023-05-22
- Testing at Edielportalen on both 15 and 60min planned from June 2023
- More information from Svenska kraftnät:

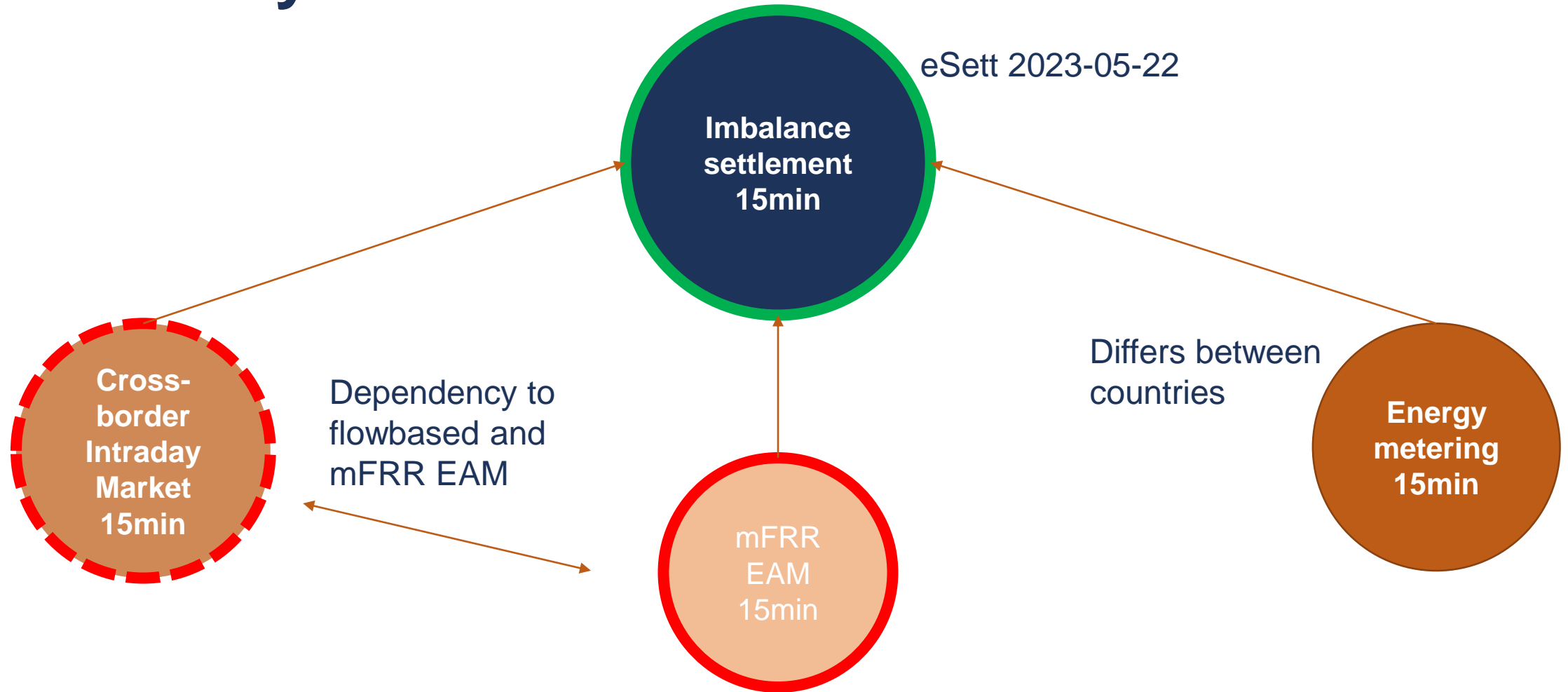
[15 minuters tidsupplösning | Svenska kraftnät \(svk.se\)](#)

[15 minuters avräkningsperiod för obalanser införs 22 maj 2023 | Svenska kraftnät \(svk.se\)](#)

[Inbjudan till webinarium kring 15 minuters tidsupplösning | Svenska kraftnät \(svk.se\)](#)

Summary

Summary



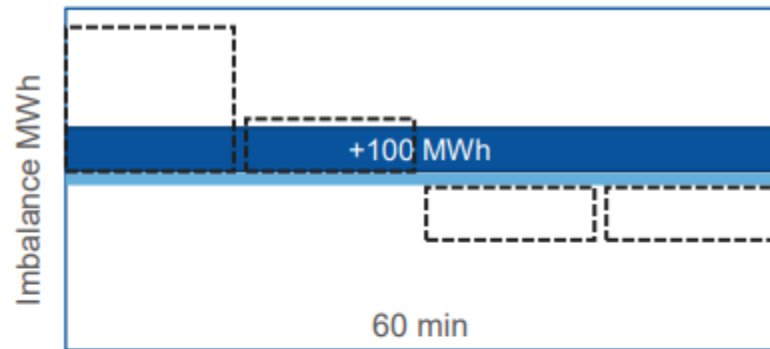
Questions?

Example: 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)



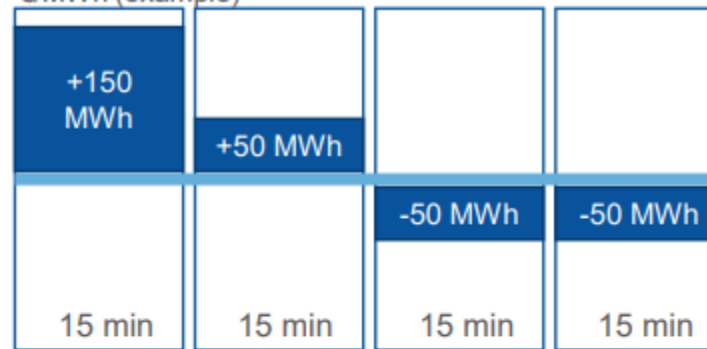
BRP imbalance cost over an hour

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

5000 €

Applied in all Nordic countries.

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

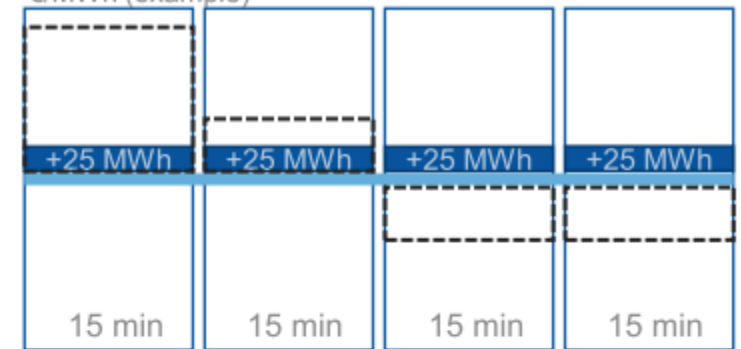


BRP imbalance cost over an hour

+150 MWh x 50 €/MWh	= +7500 €
+50 MWh x 50 €/MWh	= +2500 €
-50 MWh x 50 €/MWh	= - 2500 €
-50 MWh x 50 €/MWh	= - 2500 €
	5000 €

Not applied.

Country option: "Q-H-Q Conversion"
From 22.5.2023 until 15 min imbalance prices & 15 min 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

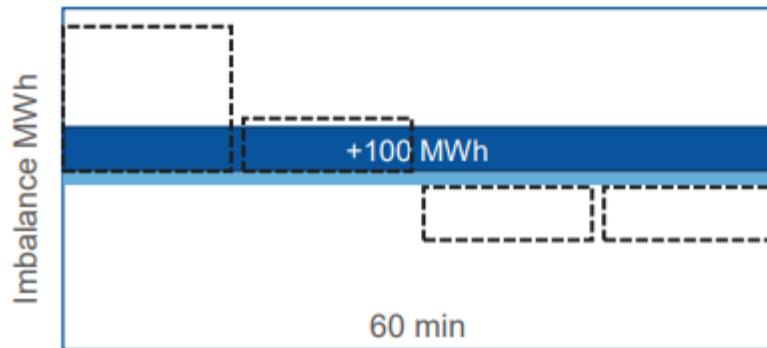
+25 MWh x 50 €/MWh	= +1250 €
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	5000 €

Example: 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)

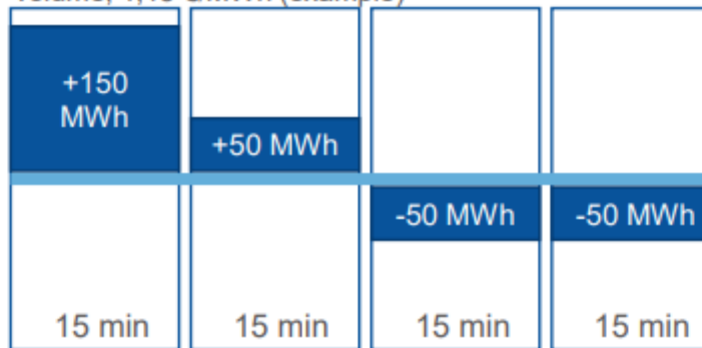


BRP imbalance fee over an hour

$$\frac{+100 \text{ MWh} \times 1,15 \text{ €/MWh}}{115 \text{ €}} = +115 \text{ €}$$

Applied in all Nordic countries.

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

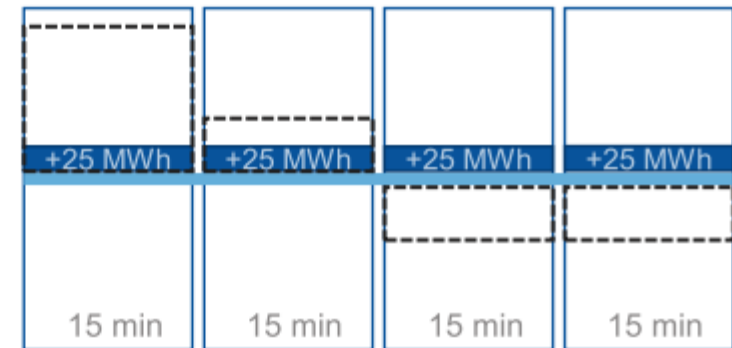


BRP imbalance fee over an hour

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

Not applied.

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



BRP imbalance fee over an hour

$$\frac{(+25 \text{ MWh} \times 1,15 \text{ €/MWh}) \times 4}{115 \text{ €}} = +115 \text{ €}$$