



# eSett News

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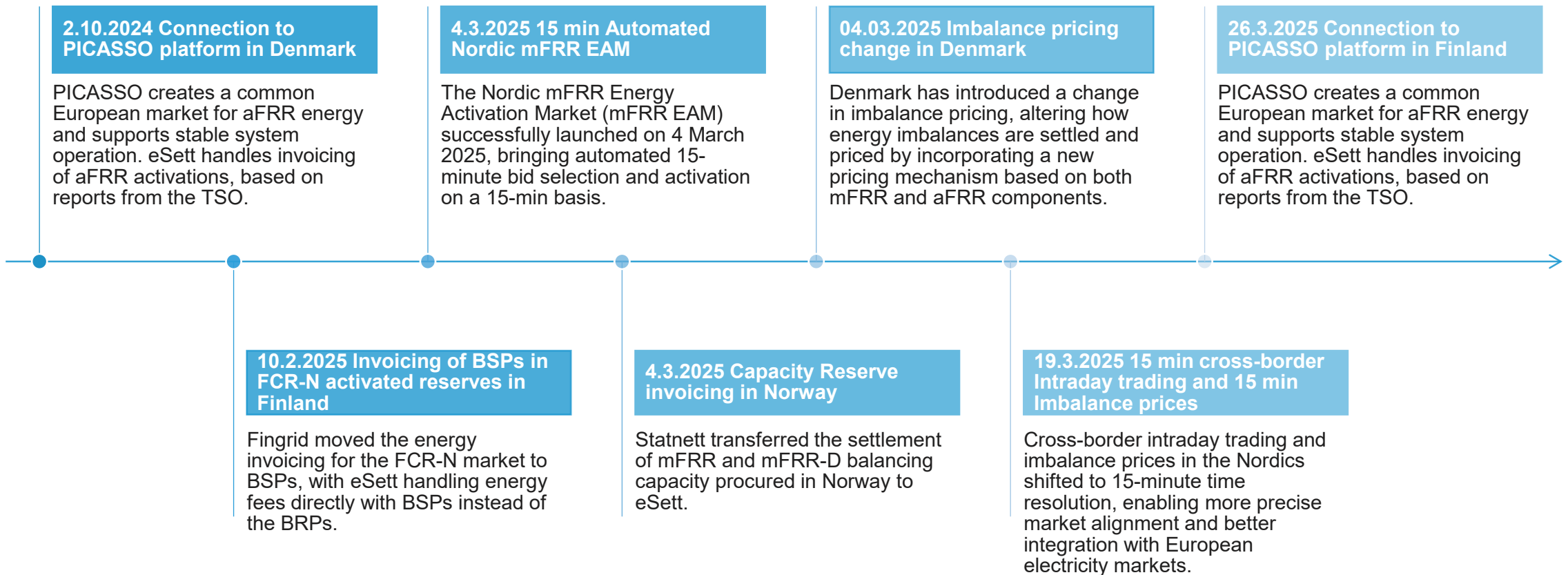
Customer Committee Spring 2025

Diana Welander

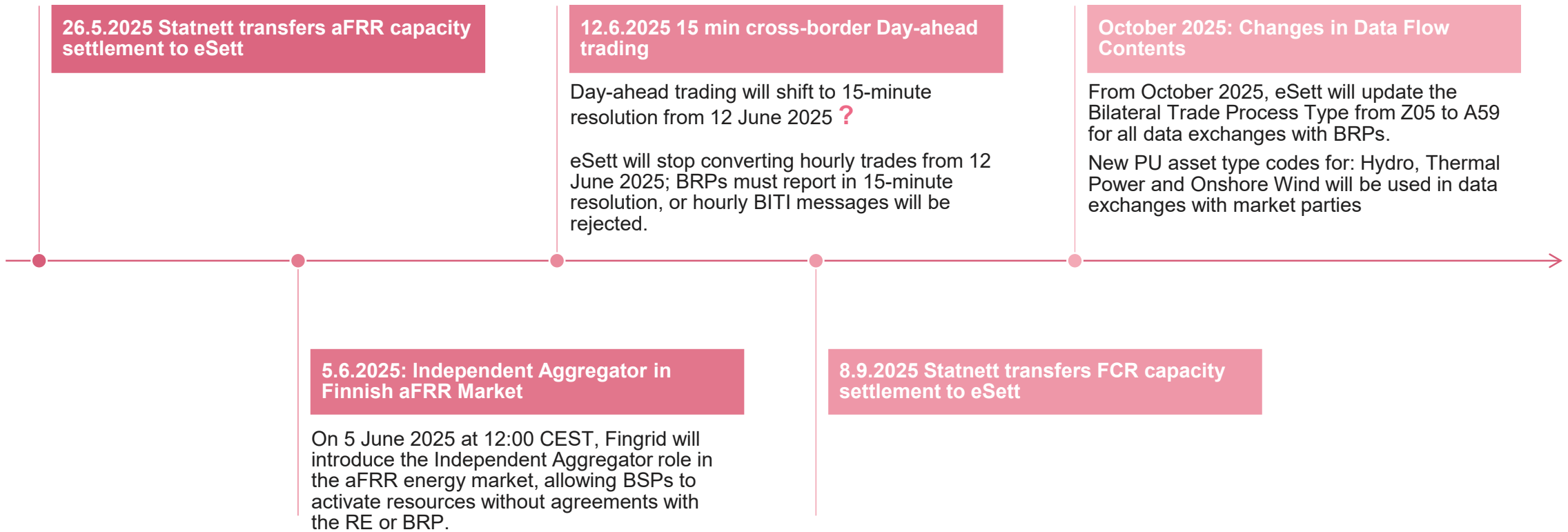
14.5.2025







# Events since last Customer Committee meeting



# Upcoming events



Different settlement services in eSett					
Imbalance settlement (BRP)		✓	✓	✓	✓
Reconciliation settlement (BRP)		-	-	-	✓
Complete settlement & invoicing in different reserves' balancing services for BSPs (instead of the local TSO):					
mFRR	Activated reserves market Market parties which act also in BRP role	✓	✓	✓	✓
	Activated reserves market Market parties which can act only in (individual) BSP role	✓	Q1 2026?	✓	
	Capacity reserves market		✓	✓	✓
	Independent Aggregator	2026?	Q2 2026?		
aFRR	Activated reserves market Market parties which act also in BRP role	✓	✓	✓	✓
	Activated reserves market Market parties which can act only in (individual) BSP role	✓		5/2025?	
	Capacity reserves market		✓	5/2025	✓
	Independent Aggregator	6/2025			
FCR	Activated reserves market Market parties which act also in BRP role	✓	✓	✓	✓
	Activated reserves market Market parties which can act only in (individual) BSP role	✓		9/2025?	
	Capacity reserves market		✓	9/2025	✓
	Independent Aggregator				
FFR	Capacity reserves market		?/2025?		



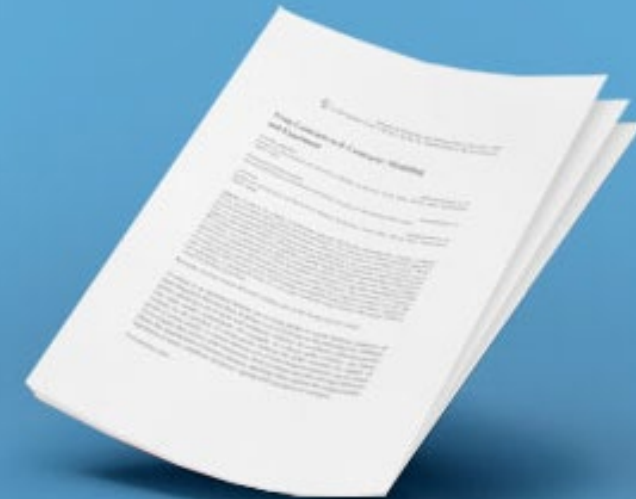
# Annual Review 2024 published in April

- Key Figures and Highlights of 2024
  - Overview of the year's achievements and significant metrics.
- Customer Satisfaction and Market Changes
  - Insights into customer feedback and recent market developments.
- Interview with Kari Suominen
  - Fingrid's CIO and the chairman of eSett's Board of Directors shares insights.
- Interview with Jesper Vestergaard
  - Customer Committee member and Head of Flexible Asset Management at Danske Commodities discusses key topics.



# Updated NBS Handbook published (May)

- Key Highlights:
  - Clearer distinction between imbalance, balancing service & Swedish reconciliation settlement
  - Changes due to independent aggregator model in Finnish aFRR market.
  - New terms: Aggregation, Compensation, Independent Aggregation, Regulation Imbalance.
  - Model explanation expanded to cover balancing service settlement and Swedish reconciliation settlement
  - Pricing of imbalances updated for Denmark
  - Collaterals chapter updated with new time schedule for provision of collateral
  - New BSP collateral for Finnish BSPs that are independent aggregators
- Full list of changes in the Change Log



# eSett Collateral Deposit update

## What's changing?

Starting Friday, 25.4.2025, Balance Responsible Parties (BRPs) will have more time to fulfill collateral deposits:

- **New deadline:** Collateral must be provided by 11:00 CET the following day after updated collateral requirements are published.
- **Previously:** Collateral had to be provided on the same day as publication.

## Important to note:

- No other collateral management procedures are affected.
- eSett will continue to publish updated collateral requirements on invoicing days by 13:00 CET.
- Same timeline applies for any recalculations during the week.

## More information:

- Imbalance Settlement Agreement [Appendix 2 – Collaterals](#)
- [Nordic Imbalance Settlement Handbook](#) (Chapter 9 – Collateral and Risk Management)





# eSett's Customer Portal

- Automatic User Setup
  - Existing users automatically have accounts created.
- New User Registration
  - Simple and quick registration process.
- Access to Previous Customer Cases
  - Comprehensive view of past communications and cases.
- Streamlined Onboarding Process
  - Interactive and user-friendly onboarding for BRP and BSP roles.

The image displays two screenshots of the eSett Customer Portal. The top screenshot shows the home page with a welcome message and three main action buttons: 'Create service request', 'Becoming a Balance Responsible Party', and 'Becoming a Balancing Service Provider'. Below these are sections for 'My active cases' and 'Useful links'. The bottom screenshot shows a detailed view of 'My cases', featuring a table with columns for Case number, Subject, Created, Updated, and State. The table lists four cases with their respective statuses (New, Awaiting your Information, Resolved, Draft) and timestamps.

**Home Page:**

Welcome to eSett's Service portal, New!

**Create service request**  
Need for assistance or any questions to eSett?

**Becoming a Balance Responsible Party**  
Application form for becoming a Balance Responsible Party

**Becoming a Balancing Service Provider**  
Application form for becoming a Balancing Service Provider

**My active cases**

- Another question  
Awaiting your Information 4h ago
- Creating a service request to eSett  
Resolved 4h ago
- Application form for becoming a Balance Responsible Party  
Draft 6d ago

[Go to my cases](#)

**Useful links**

- New market participant
- Settlement banks
- Tutorial videos

**My cases**

Active Closed All Search Select type

Case number	Subject	Created ↓	Updated	State
CS0028696	Happy Summer	22.04.2025	22.04.2025	New
CS0028695	Another question	22.04.2025	22.04.2025	Awaiting your Information
CS0028694	Creating a service request to eSett	22.04.2025	22.04.2025	Resolved
CSBRP0001066	Application form for becoming a Balance Responsible Party	16.04.2025	16.04.2025	Draft

10 rows

« < 1 > »



# New! Tips and Tricks from eSett



- eSett started sharing helpful tips to make the customers' work easier:
  - Find your way around the Online Service faster
  - Use Open Data in smarter ways
  - Get the most out of different views and features
- These tips will help customers save time and work more efficiently.
- Distributed via Newsletter and Online Service News widget

## **Tell Us What You Think!**

Is there something that feels tricky or confusing?

Let us know what you'd like tips about – we're happy to receive your ideas and feedback!

# New! eSett Q & A – Find answers fast

- eSett launched a comprehensive Q & A section to help customers get the answers they need.
  - Covers the most frequently asked questions from our customers
  - Data from customer tickets in 2024
  - Aims to improve service efficiency and save time
  - Helps to better understand how things work in practice
- Available in the Online Service and on eSett's website
  - Website: Customers – FAQ
  - Online Service Dashboard

## Help/Service Requests

In case of any issues or questions please contact eSett's support:

- [Create Customer Service Request](#)
- Send email to [settlement@esett.com](mailto:settlement@esett.com)
- Call +358 10 5018500 Open hours 09-15 CET
- [Online Service tutorial videos](#)
- [Frequently asked questions](#)



# Strengthening collaboration across the NBS

- Visiting Balance Responsible Parties in All NBS Countries
  - Build trust and establish personal connections to deepen our understanding of customer needs.
  - Customize visits based on customer feedback and align with the latest trends in the electricity market.
  - Foster stronger relationships and enhance tailored services through direct, meaningful dialogue.
- Sharing knowledge between eSett and the TSOs
  - eSett hosted an "eSett Experience" day to introduce TSO professionals to our work and capabilities.
  - Facilitated visits from TSO experts to share insights on different TSO operations.







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We settle, together!





# eSett: Market overview

Customer committee 14.5.2025



# eSett: Market overview

## Contents

- Market Parties
- Prices
- Activated reserves
- Trading volumes



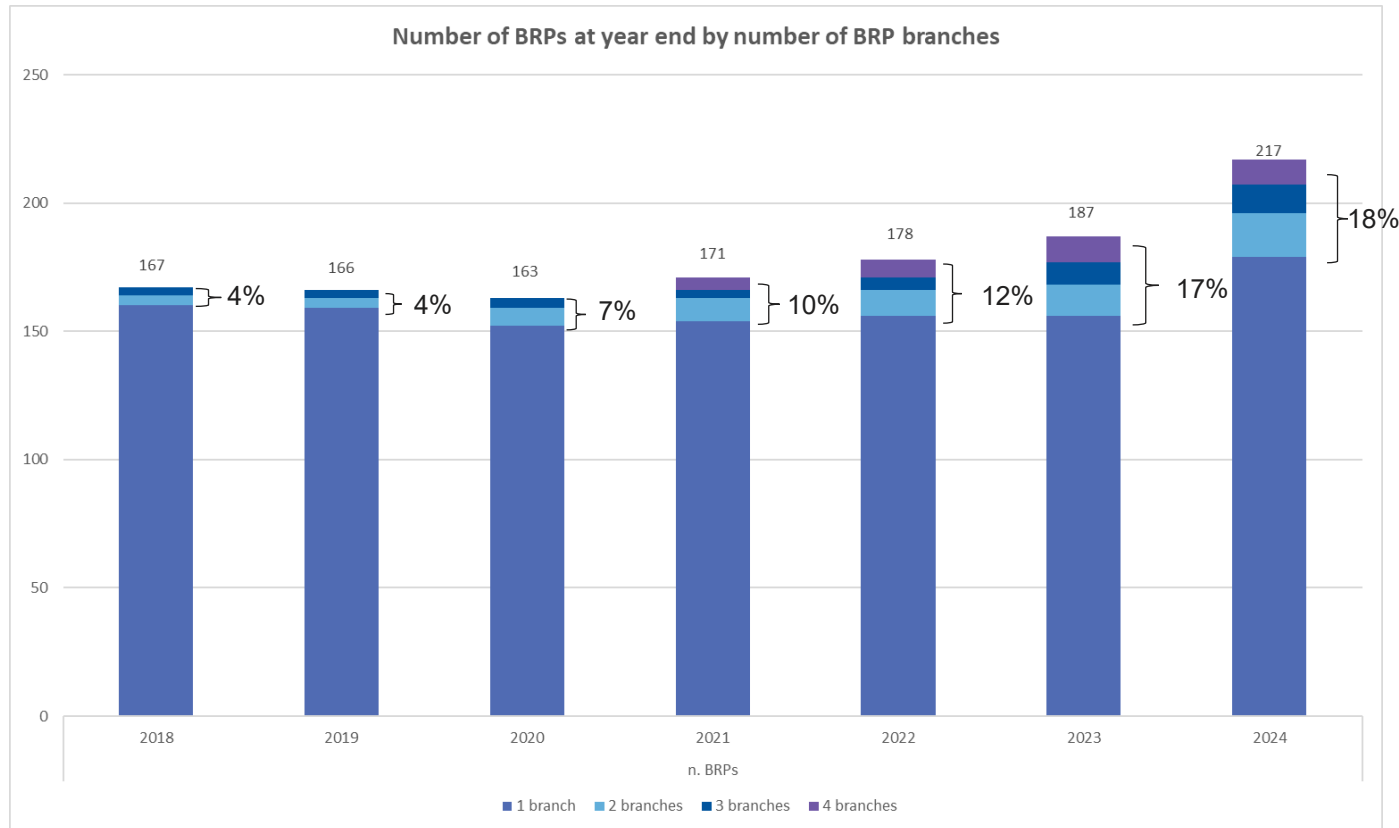
# eSett: Market overview

## Contents

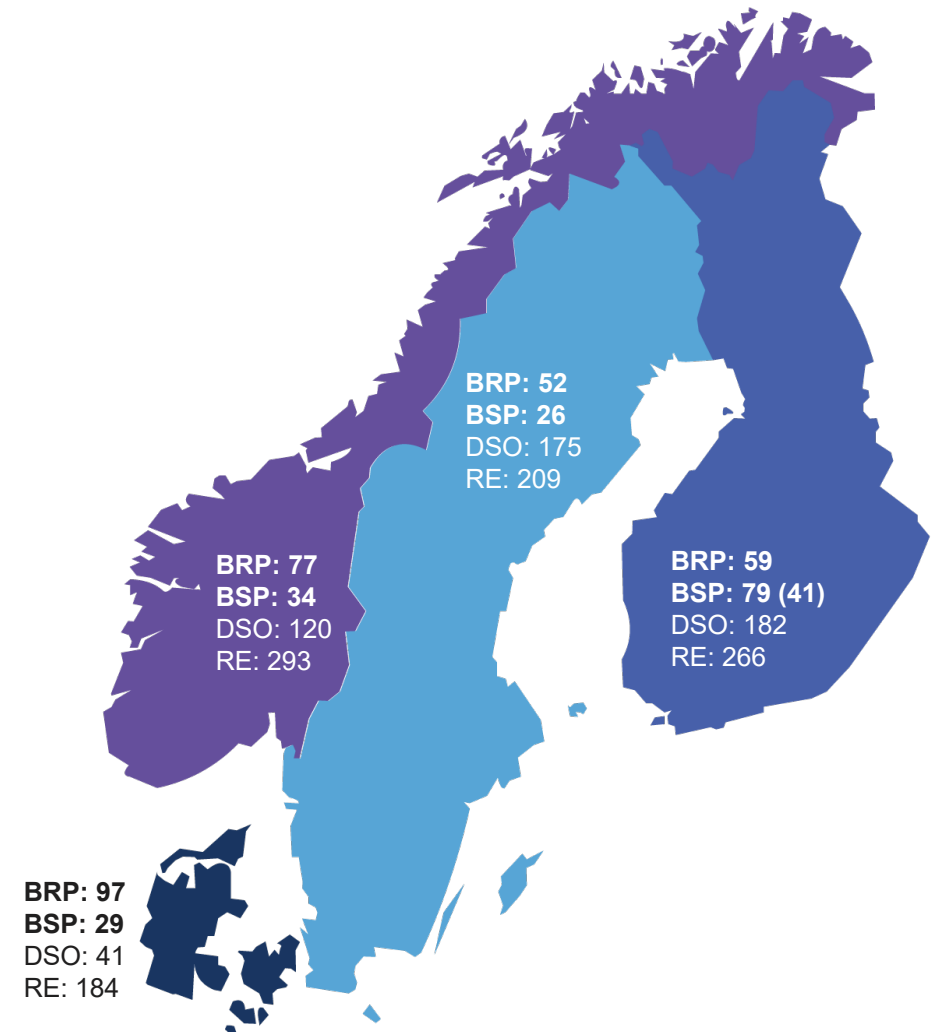
- **Market Parties**
- Prices
- Activated reserves
- Trading volumes



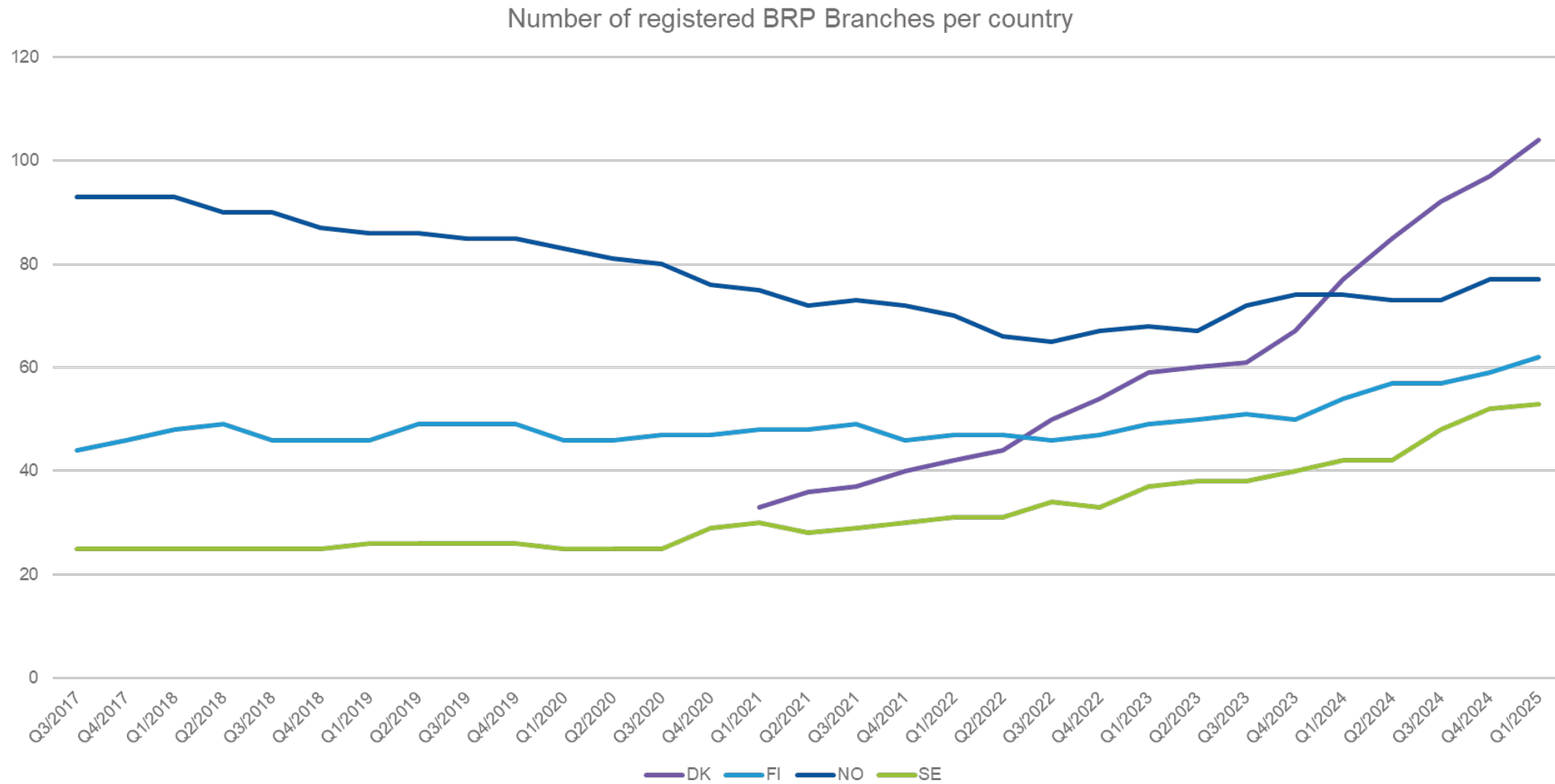
# Active market party roles in imbalance settlement



- Number of BRPs with branches in several countries increased from 2020 to 2024  
11->17->22->31->38



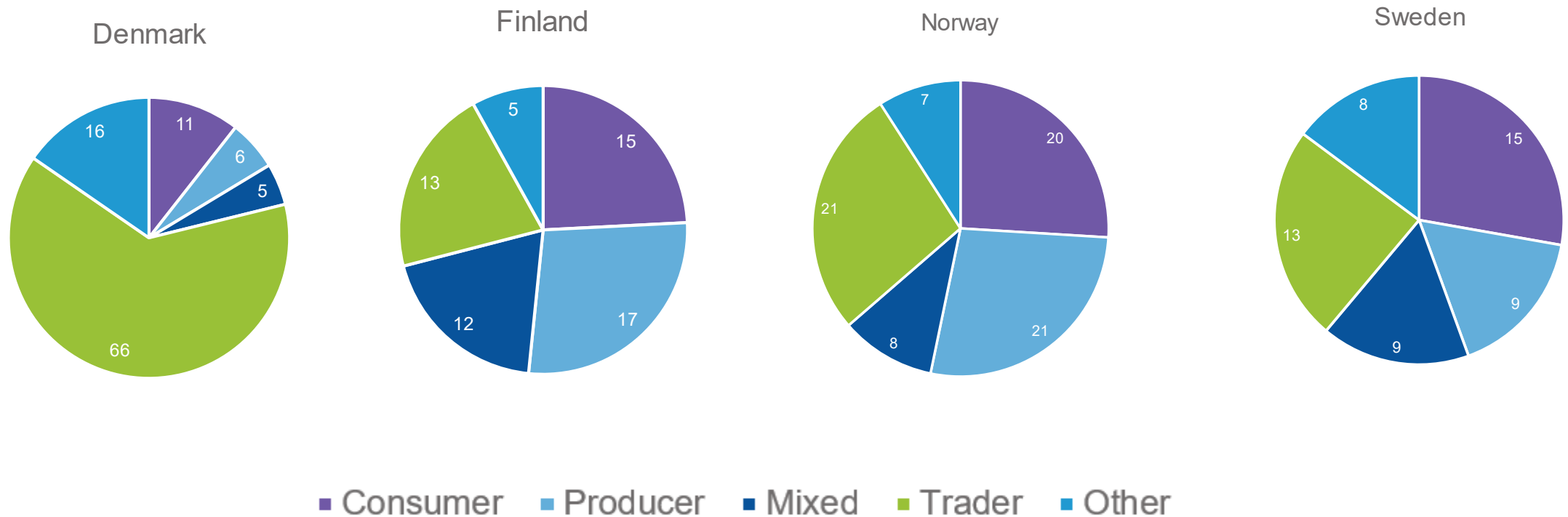
# Number of BRPs continue to grow





# Active market party roles in imbalance settlement

Number of BRPs per country classified based on last three months portfolio.



PCR = Ratio of Production / Consumption for the BRP branch.

Classes: 1) Consumer:  $PCR < 0,5$ . 2) Producer:  $PCR > 2,0$ . 3) Mixed:  $0,5 < PCR < 2,0$ . 4) Trader: If only PX Market or Bilateral Trades. 5) Other: Only reserves / no settlement data for the month.



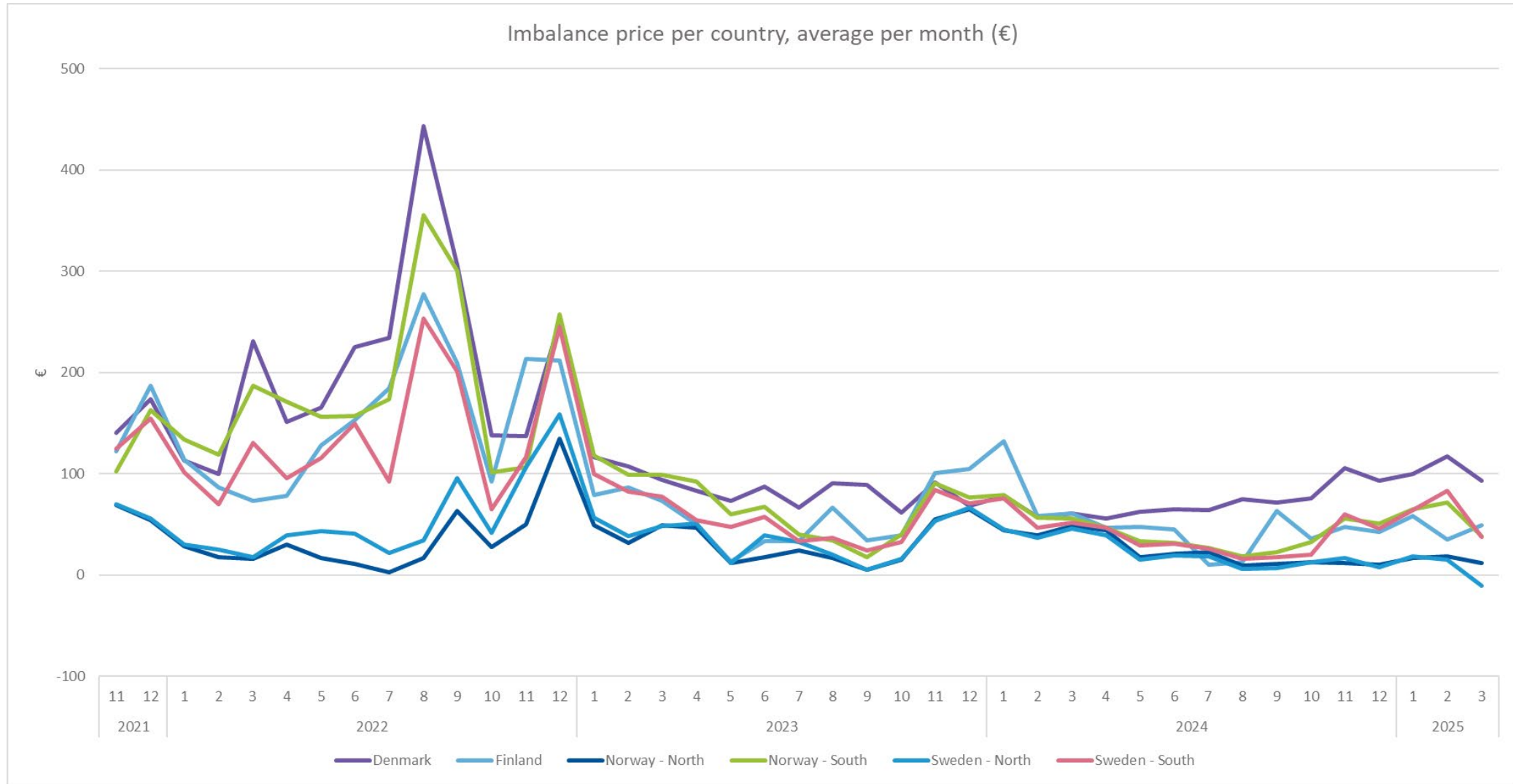
# eSett: Market overview

## Contents

- Market Parties
- **Prices**
- Activated reserves
- Trading volumes

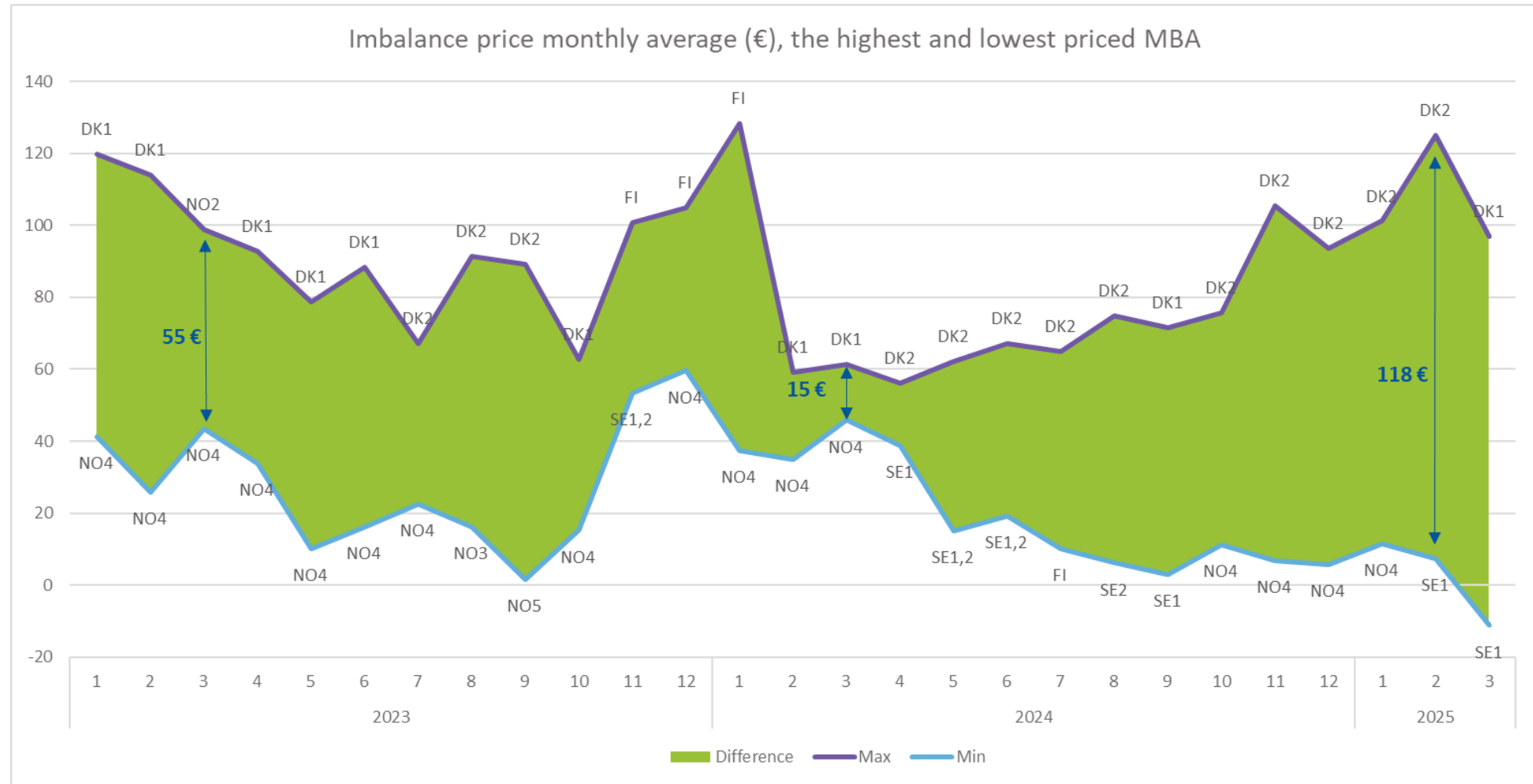


# Average monthly imbalance price per area

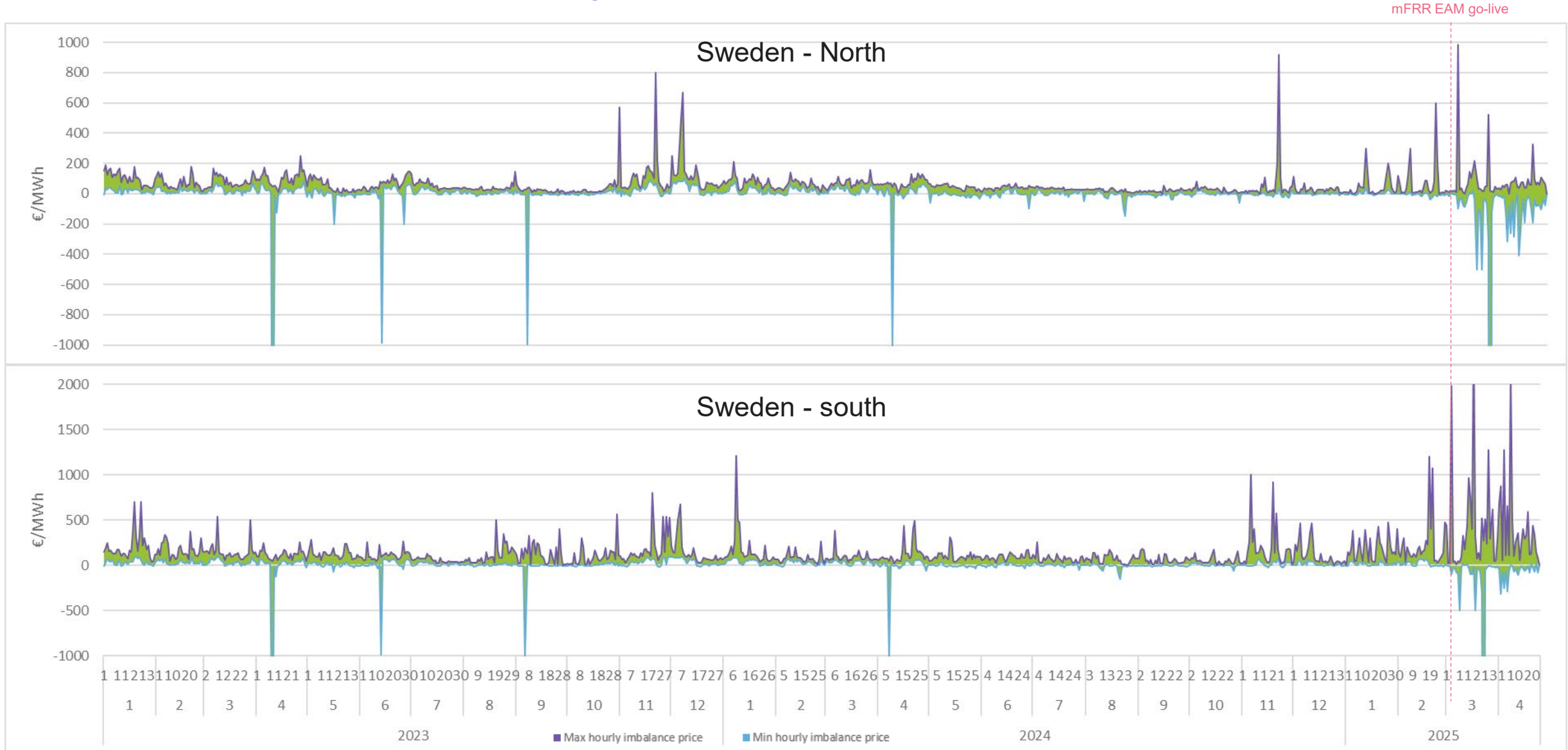




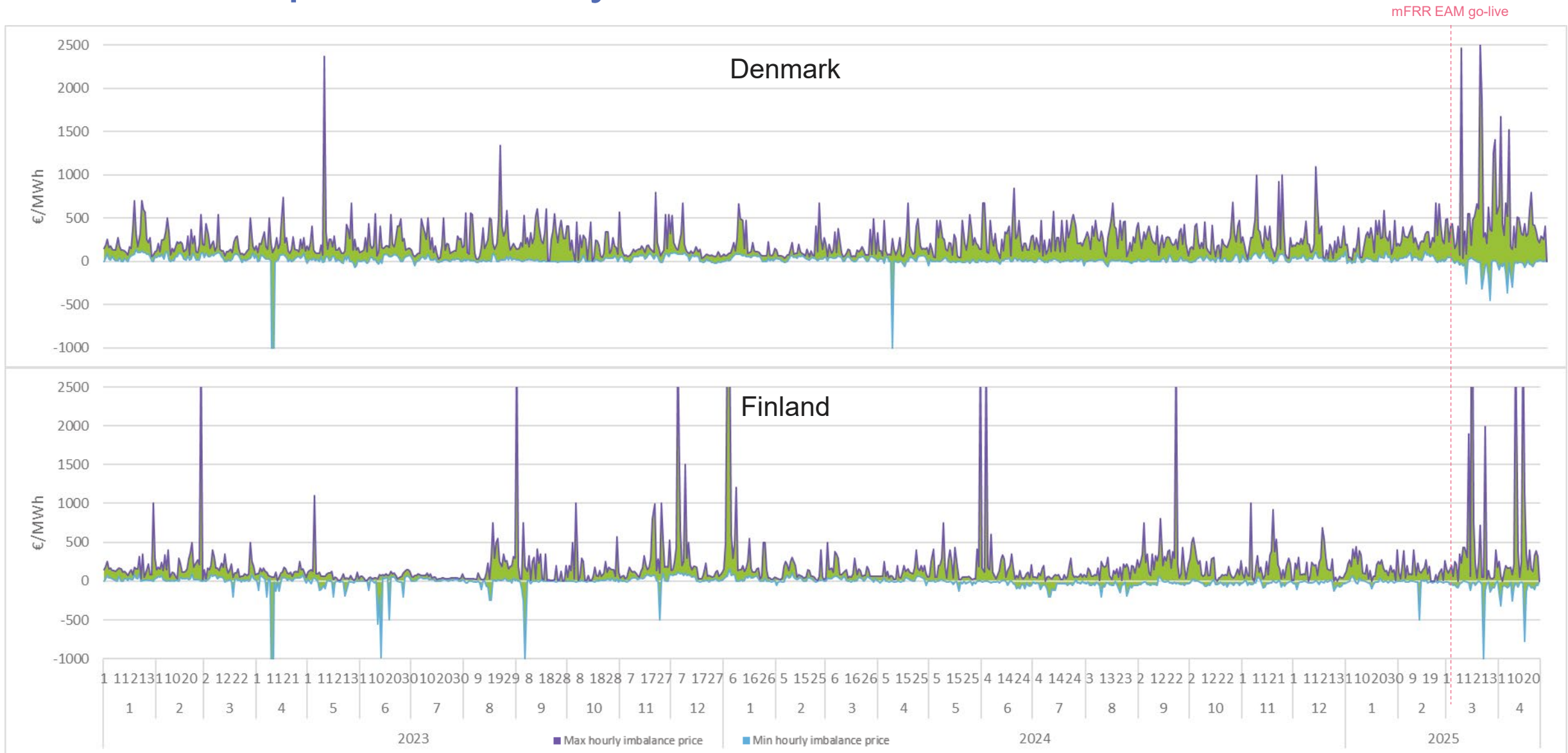
# Imbalance price spread growing between MBAs



# Imbalance price volatility increased

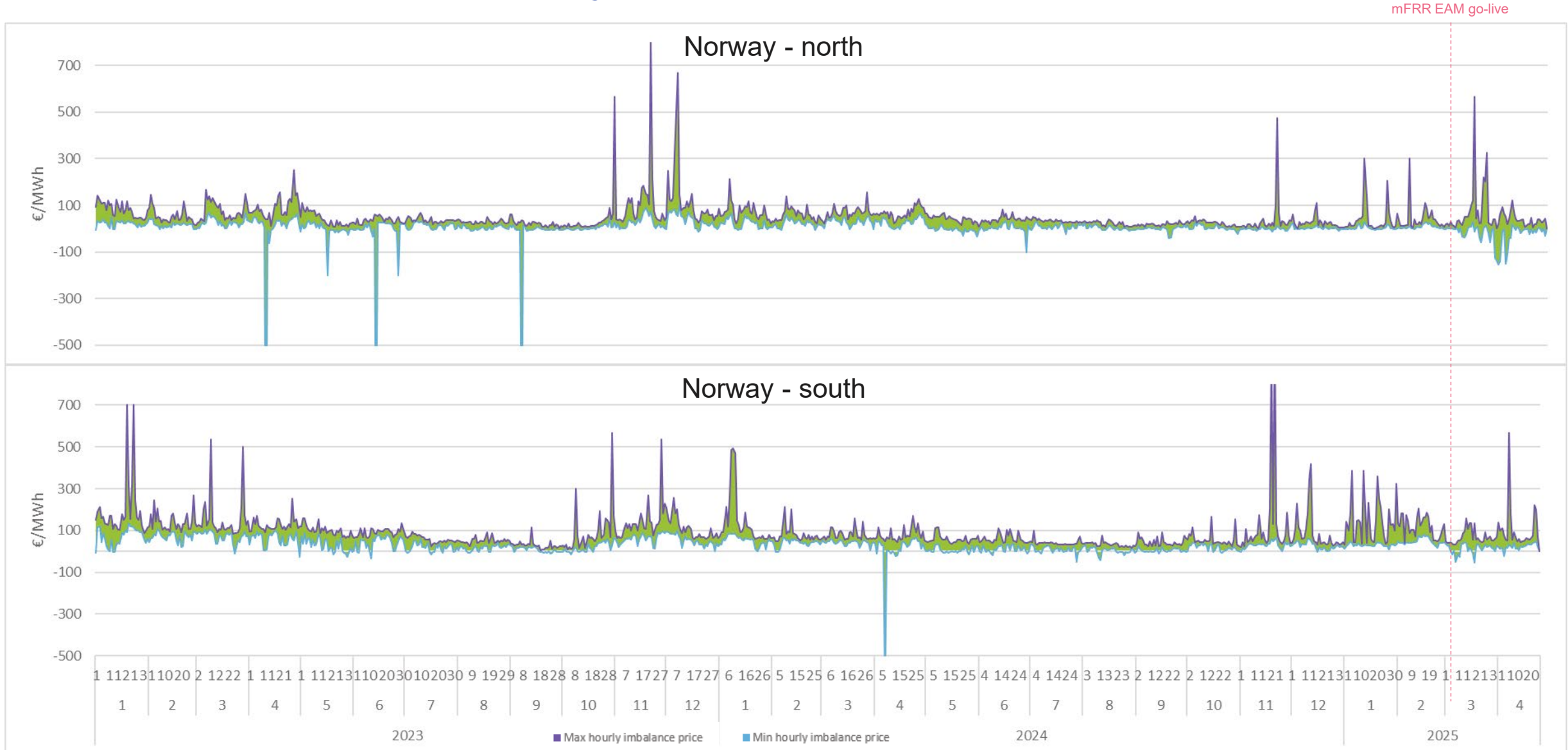


# Imbalance price volatility increased





# Imbalance price volatility increased



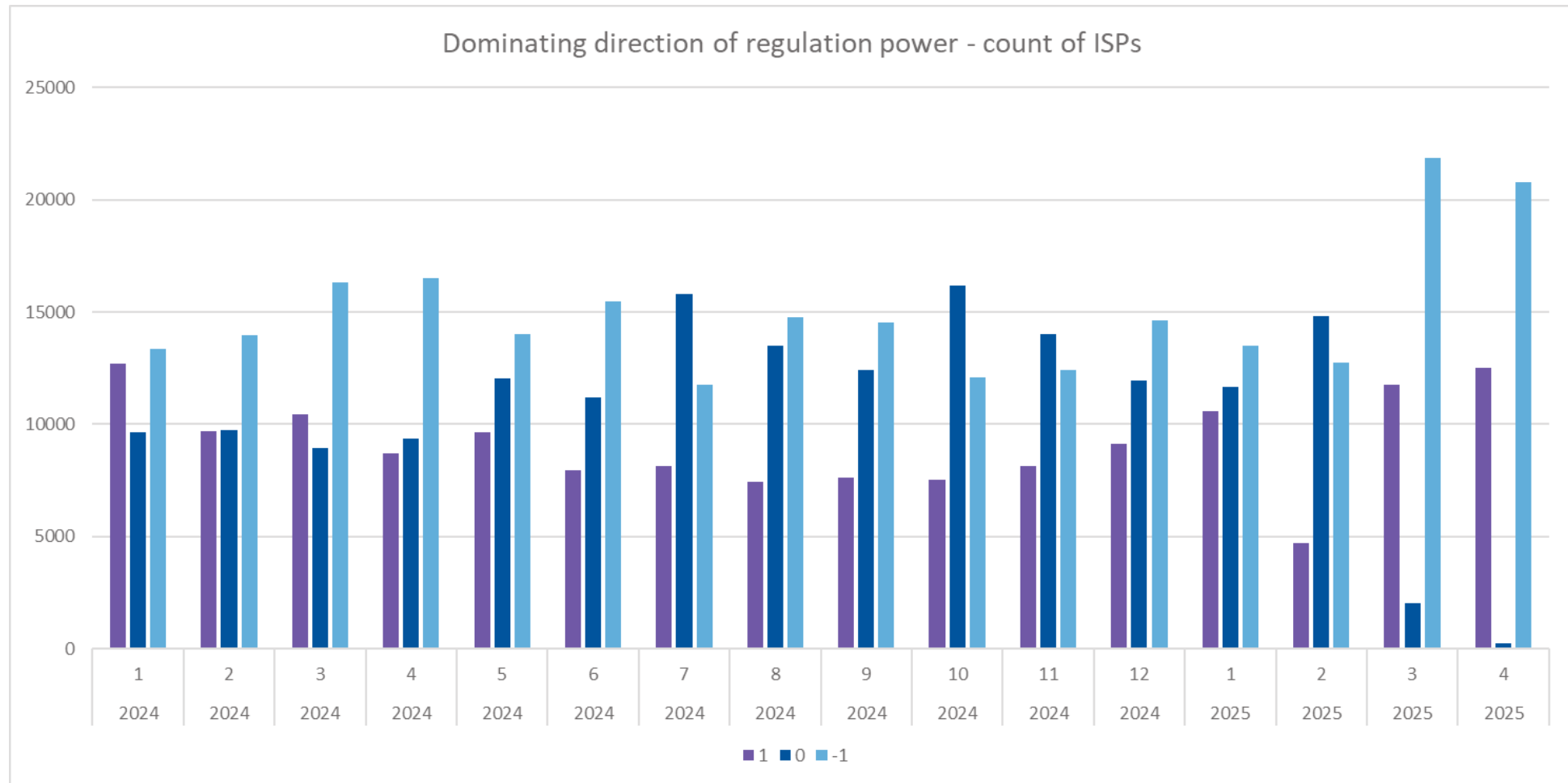


# eSett: Market overview

## Contents

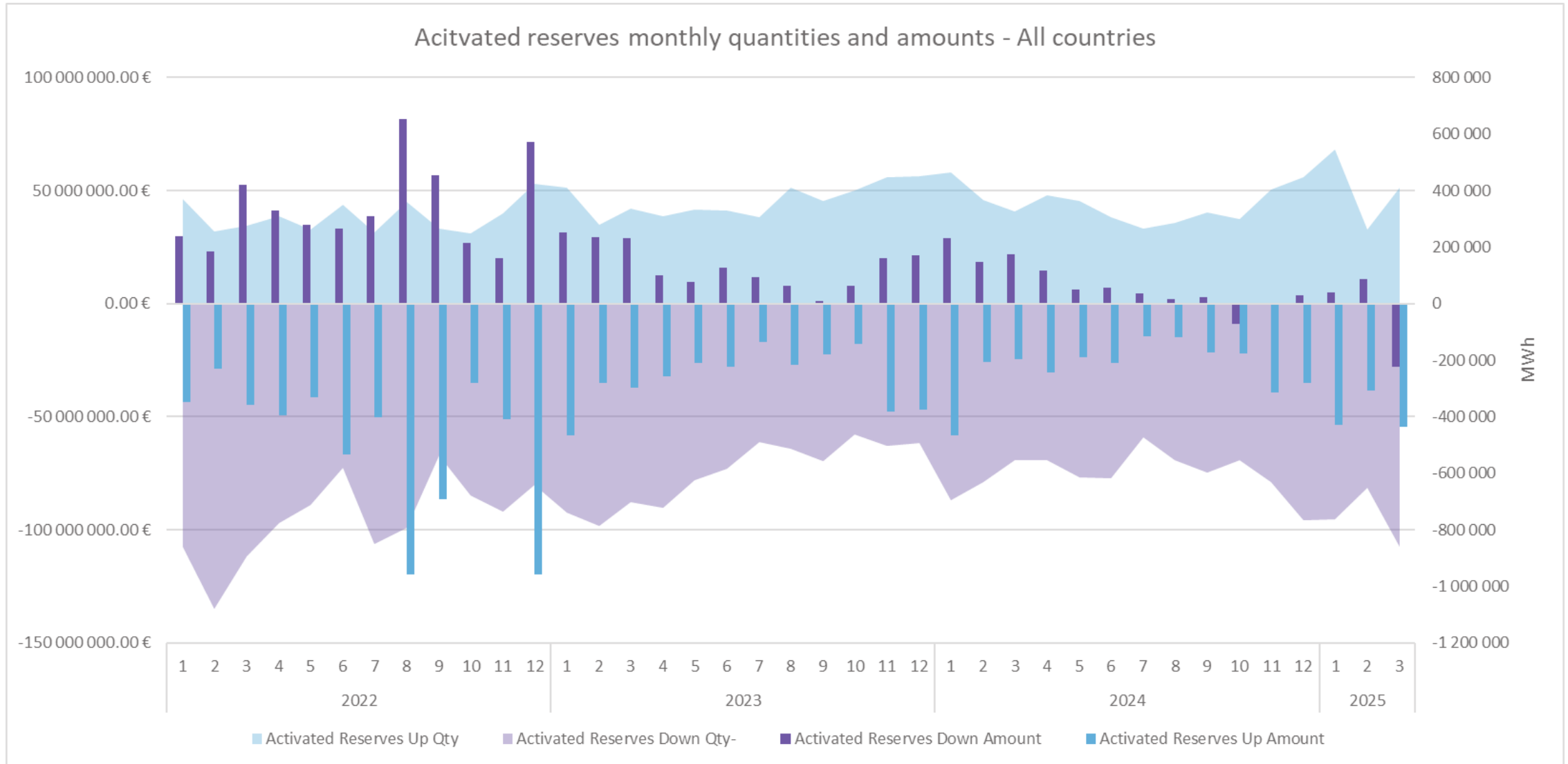
- Market Parties & Imbalance volumes
- Prices
- **Activated reserves**
- Trading volumes

# Dominating direction – end of ISPs with no regulation?





# Activated reserves net amount turned negative





# eSett: Market overview

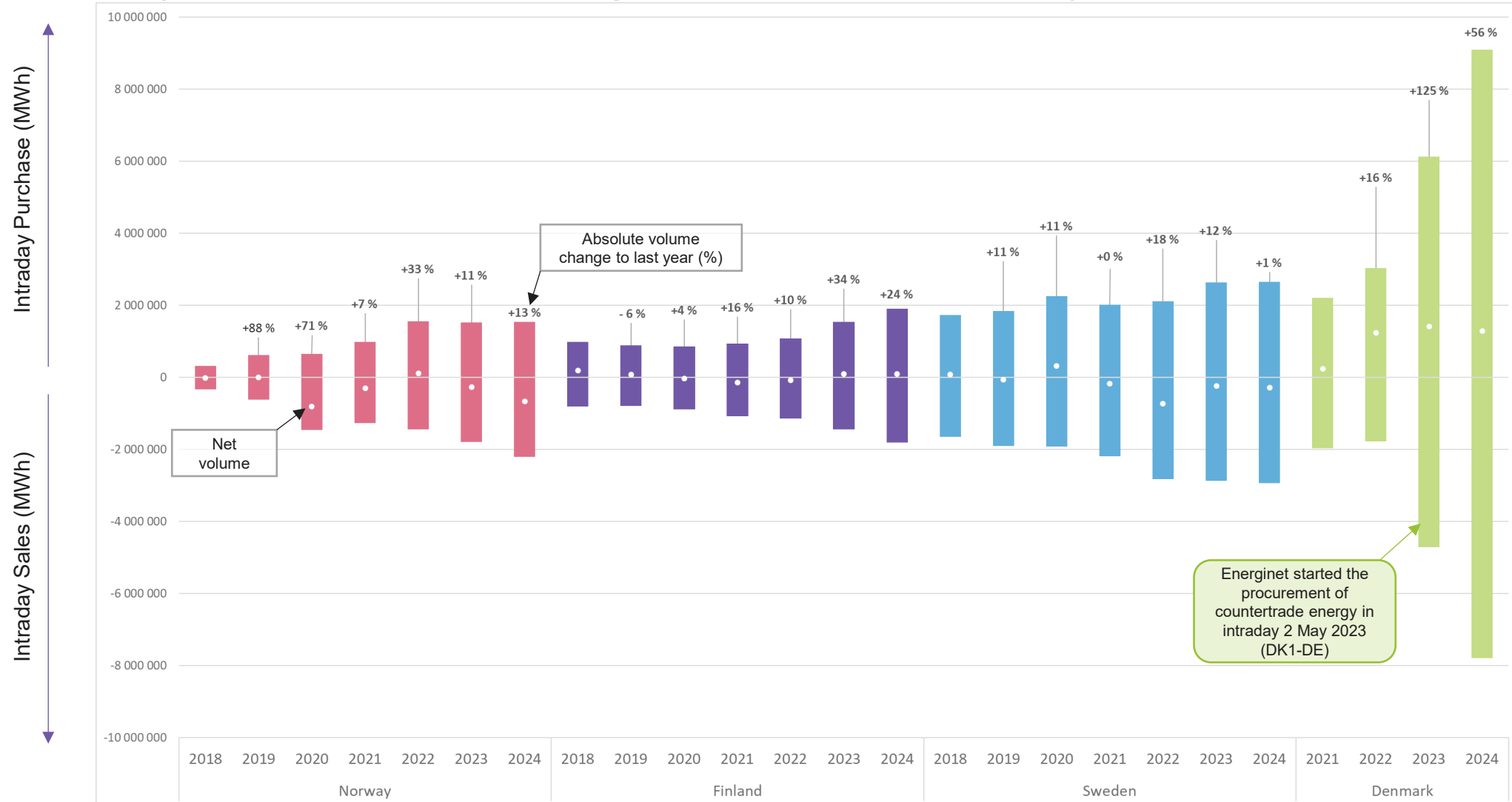
## Contents

- Market Parties & Imbalance volumes
- Prices
- Activated reserves
- **Trading volumes**



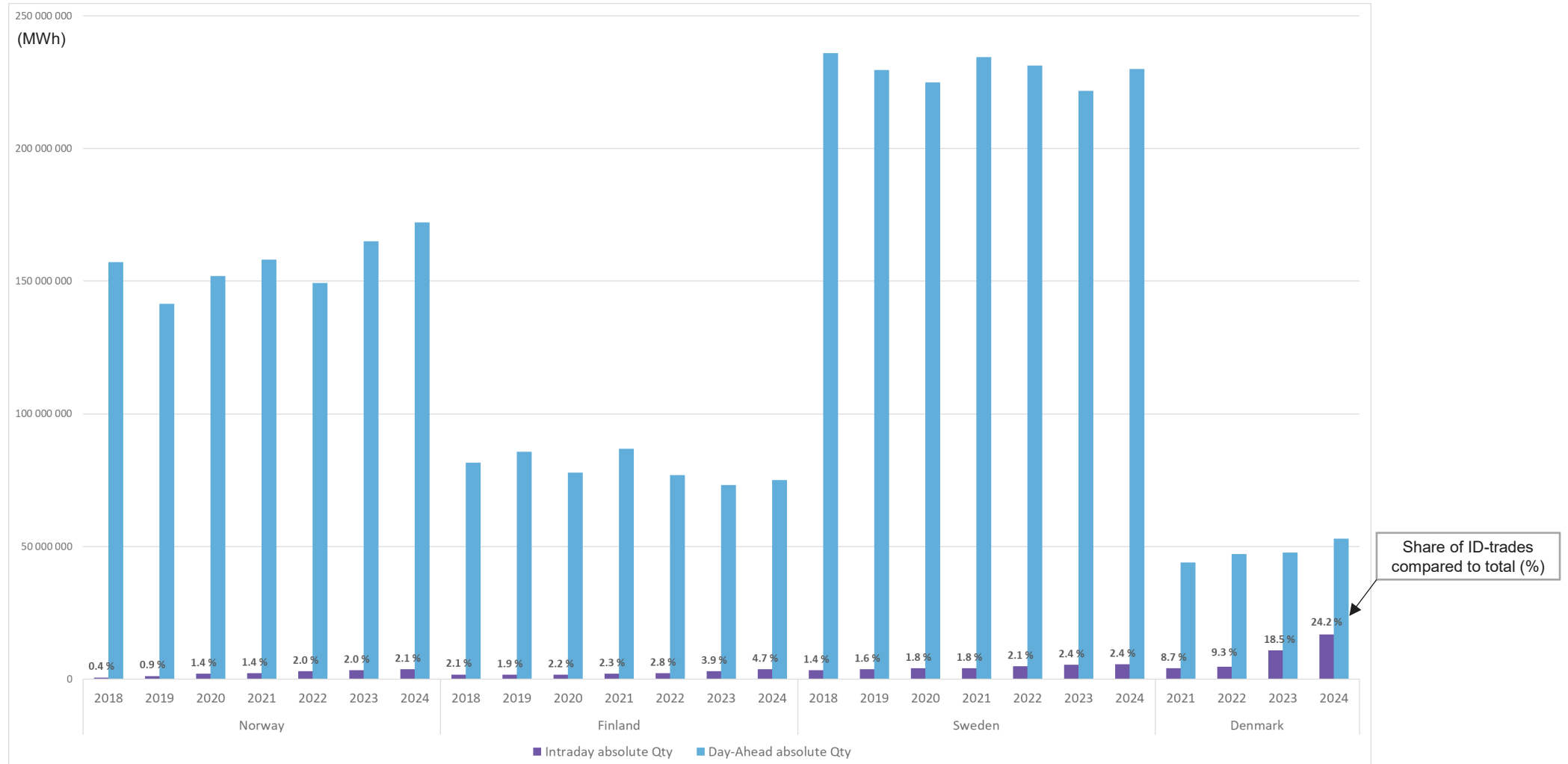
# Yearly intraday trade volumes per country

Intraday trade volumes kept rising in all countries, especially in Denmark



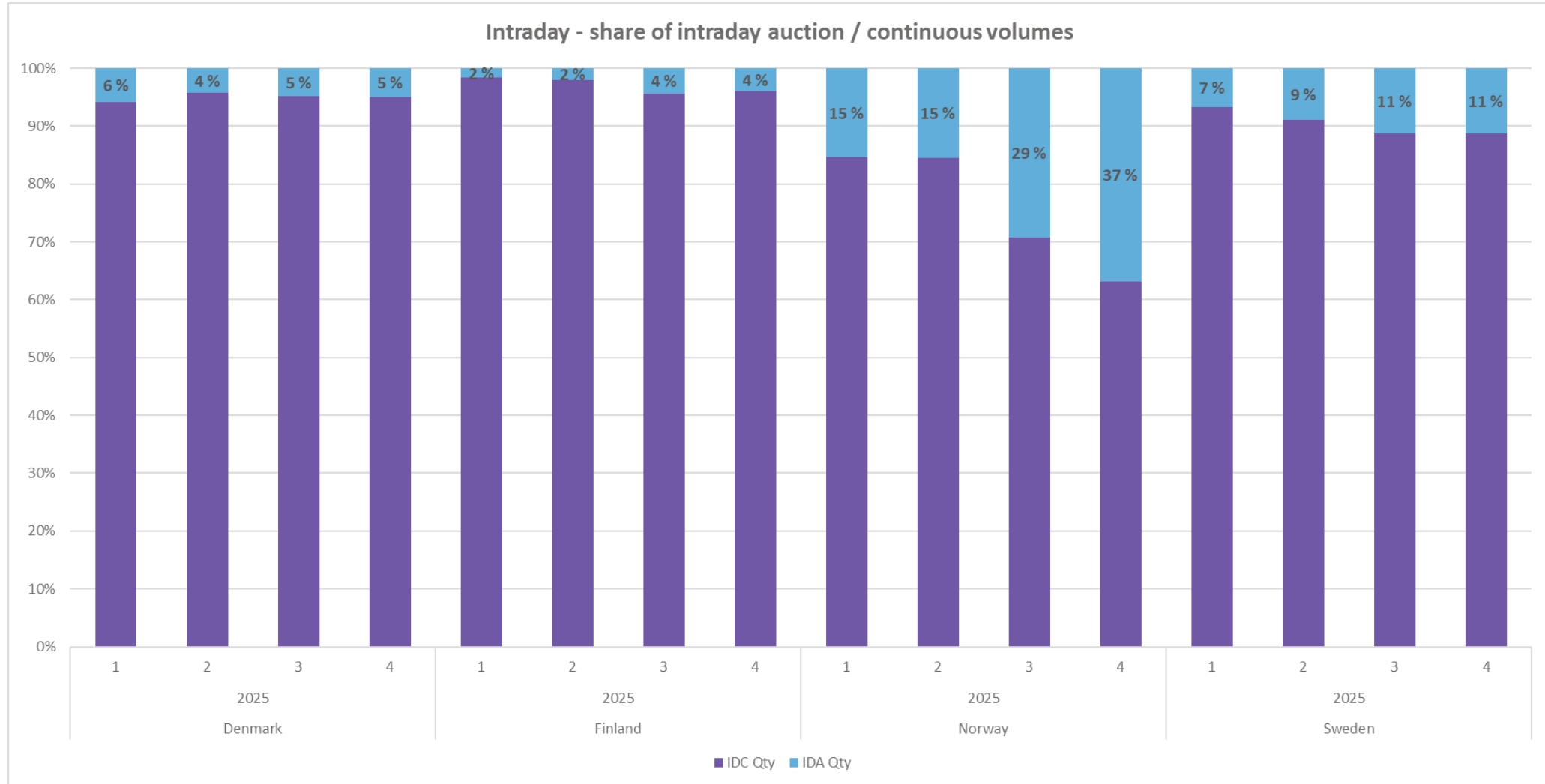
# Yearly PX market trade volumes per country

Relative to Day-ahead, ID volumes are significantly greater in Denmark





# Intraday auction volumes increasing especially in Norway





WE SETTLE, TOGETHER!

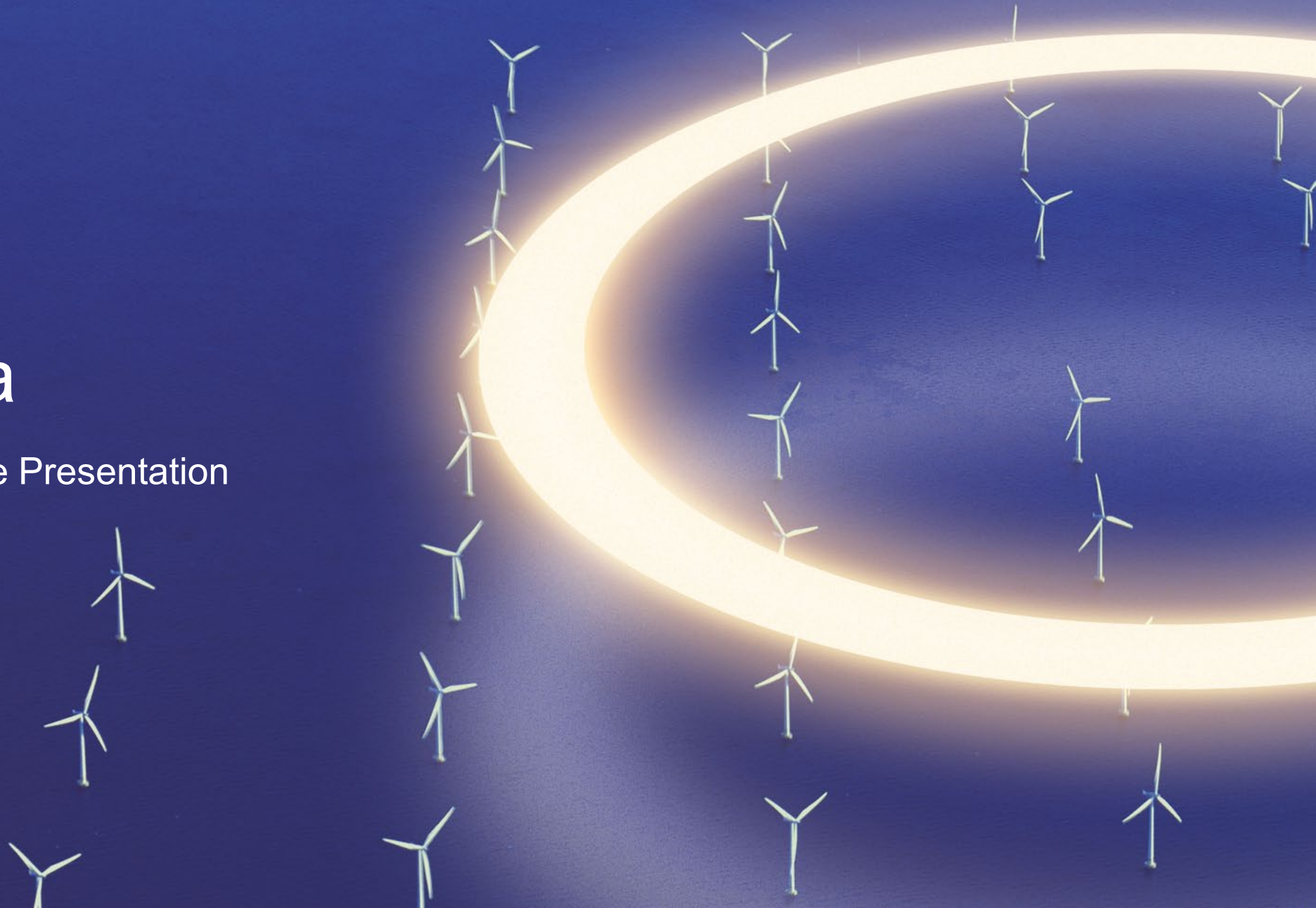




# Open Data

## Customer Committee Presentation

Sasu Saalasti | 14.5.2025



# Motivation

As an ISR, eSett produces and manages large amounts of electricity market data. eSett promotes the transparency and efficiency of the electricity market. Our Open Data platform provides electricity market data and structural data on electricity market participants free of charge and in machine-readable format to support our goals. All data is provided in accordance with the Creative Commons CC Zero License.



# Open Data = Web app and API

**eSett Open Data** Consumption API

LAST UPDATE: 30.04.2025 02:05 CEST AVAILABLE DATA: 01.05.2017 - 29.04.2025 API Specification Export CSV 1

MBA: NO1, NO2 Start Date CEST: 07.04.2025 End Date CEST: 13.04.2025 15 min Hour Day Week Month Year Search

Table Chart

Date/Time CET/CEST	Date/Time UTC	MBA	Consumption Total	Metered	Profiled	Flex-settled
07.04.2025/00:00	06.04.2025/22:00	NO1, NO2	-1 881,88	-1 878,13	-3,75	-
07.04.2025/00:15	06.04.2025/22:15	NO1, NO2	-1 864,00	-1 860,30	-3,70	-
07.04.2025/00:30	06.04.2025/22:30	NO1, NO2	-1 854,66	-1 851,00	-3,66	-
07.04.2025/00:45	06.04.2025/22:45	NO1, NO2	-1 843,90	-1 840,29	-3,61	-
07.04.2025/01:00	06.04.2025/23:00	NO1, NO2	-1 841,22	-1 837,60	-3,62	-
07.04.2025/01:15	06.04.2025/23:15	NO1, NO2	-1 828,90	-1 825,30	-3,60	-
07.04.2025/01:30	06.04.2025/23:30	NO1, NO2	-1 826,69	-1 823,11	-3,58	-
07.04.2025/01:45	06.04.2025/23:45	NO1, NO2	-1 819,80	-1 816,24	-3,56	-
07.04.2025/02:00	07.04.2025/00:00	NO1, NO2	-1 813,47	-1 809,92	-3,55	-
07.04.2025/02:15	07.04.2025/00:15	NO1, NO2	-1 808,81	-1 805,26	-3,55	-

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**eSett** <https://api.opendata.esett.com/openapi?format=json> Explore

**eSett open data API** 0.0.1 OAS3  
<https://api.opendata.esett.com/openapi?format=json>

Servers  
<https://api.opendata.esett.com>

**Market Parties**

- [GET /EXP01/BalanceResponsibleParties](#) Get Balance Responsible Parties
- [GET /EXP01/BalanceServiceProviders](#) Get Balancing Service Providers
- [GET /EXP01/DistributionSystemOperators](#) Get Distribution System Operators
- [GET /EXP01/Retailers](#) Get Retailers

**Metering Grid Areas**

- [GET /EXP03/MBAOptions](#) Get Available MBAs for Metering Grid Areas
- [GET /EXP03/MeteringGridAreas](#) Get Metering Grid Areas

# Some history

- September 2020 – Launch of Public Data
- November 2021 – Single Balance Volumes and Prices
- May 2022 – eSett starts developing a renewed solution
- October 2022 – BSP view (old solution)
- November 2022 – Consumption and Production views and API endpoints (old solution)
- May 2023 – Launch of Open Data 1.0, OpenAPI specifications, 15 min ISP
- November 2023 – Load Profile and Reconciliation views
- April 2024 – Open Data 2.0
- ...monthly releases

## Releases

24. Mar 2025

2.3.0

### Features:

The following updates concern the Imbalance Prices view.

Data is updated once an hour (previously once a day).

Added aFRR Up and Down Regulation Price columns for MBAs DK1 and DK2.

Updated view info due to mFRR EAM Go-Live.

Updated column names: Up/Down Regulation Price -> mFRR Up/Down Regulation Price, Imbalance and Spot Price Difference -> Imbalance and Day-ahead Price Difference, Main Direction of Regulation Power per MBA -> Dominating Direction of Regulation Power per MBA.

29. Jan 2025

2.2.2

### Features:

Updated date picker component to show time zone.

Improved date picker usability.

Updated About the View modal.

21. Nov 2024

2.2.1

### Features:

Updated Single Balance Prices and Load Profile view descriptions.

### Fixes:

Fixed aFRR Down Regulation Price series in Imbalance Prices Chart. Previously both aFRR Up and Down values were incorrectly Up.

Fixed EXP17 and EXP17 Aggregate endpoints that returned inconsistent date intervals compared to the request.

22. Oct 2024

2.2.0

### Features:

Updated Single Balance Prices view description about VoAA and IC data synchronization.

Updated Single Balance Prices graph to display more price series.


Added Sweden Total view and API endpoint (/EXP17/Aggregate) for Reconciliation Prices.

Maximum returned data rows is now 100 000 for RBR data.

### Fixes:

Fixed chart legend layout when resizing charts.

# First version vs Current one


**eSett** Public Data

About eSett ▶

**CONTENT:**

- Balance Responsible Parties
- Distribution System Operators
- Retailers
- Metering Grid Areas
- Retailer Balance Responsibilities
- Settlement Banks
- Imbalance Volumes
- Prices
- Fees

## Welcome to eSett Public Data

This page is used to share information about imbalance settlement data and market participant structures related to Nordic Imbalance Settlement.

BRP

Balance Responsible Parties

DSO

Distribution System Operators

RE

Retailers

MGA

Metering Grid Areas

RBR

Retailer Balance Responsibilities

B

Settlement Banks

IV


Imbalance Volumes

P

Prices

F

Fees


**eSett Open Data**

Main

API

- Structures
  - Balance Responsible Parties
  - Balancing Service Providers
  - Distribution System Operators
  - Metering Grid Areas
  - Retailer Balance Responsibilities
  - Retailers
  - Settlement Banks
- Prices
  - Imbalance Prices
  - Reconciliation Prices
- Fees
  - Imbalance
- Volumes
  - Consumption
  - Imbalance

## Welcome to eSett Open Data

eSett Oy (Imbalance Settlement Responsible, ISR) is responsible for performing imbalance settlement and invoicing BRPs for imbalances on behalf of the four Transmission System Operators (TSOs); Energinet, Fingrid, Statnett, and Svenska kraftnät.

As an ISR, eSett produces and manages large amounts of electricity market data. eSett promotes the transparency and efficiency of the electricity market. Our Open Data platform provides electricity market data and structural data on electricity market participants free of charge and in machine-readable format to support our goals. All data is provided in accordance with the [Creative Commons CC Zero License](#).

Please contact our customer service for ideas on how we can improve the platform. We are always happy to receive feedback and use it to develop our services.

## Announcements

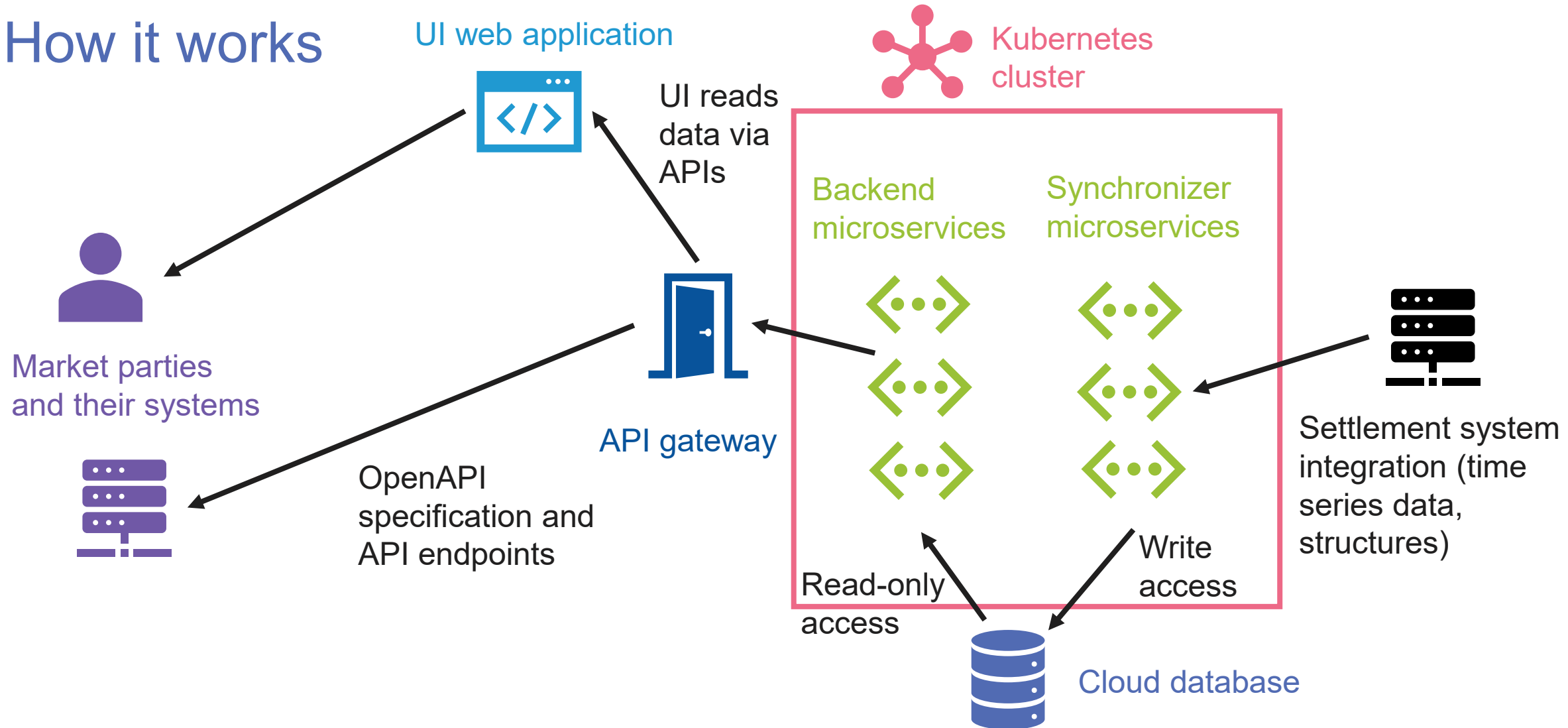
24. Mar 2025

### Version 2.3.0 released

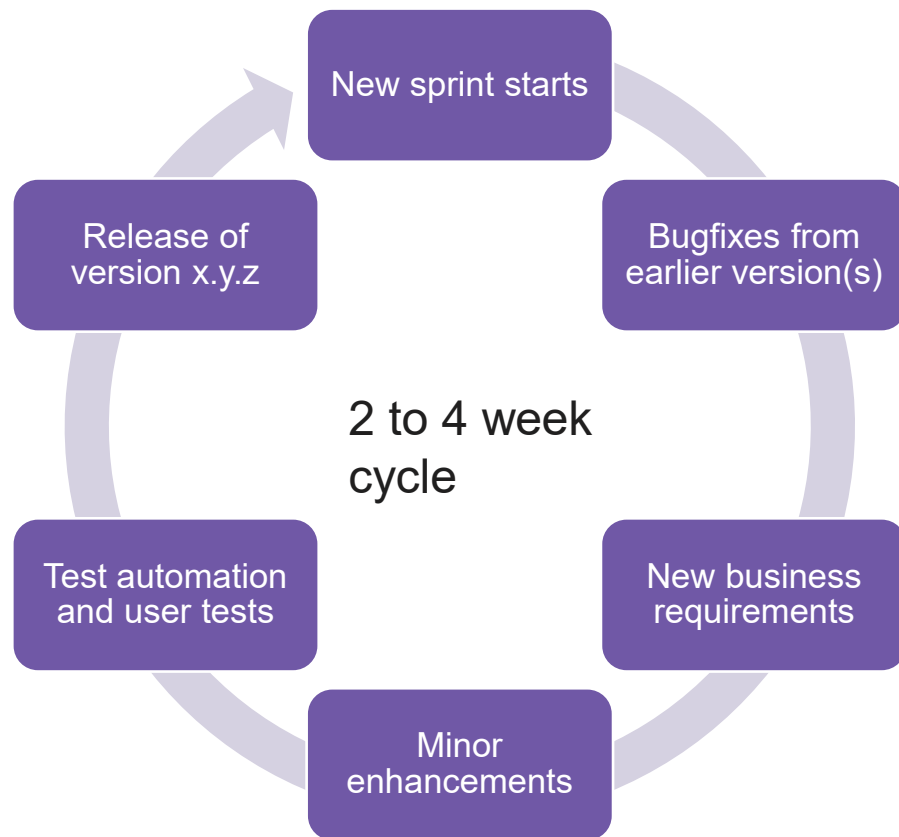
This version introduces updates in Imbalance Prices. Please refer to the About Application section for more information.



# How it works



# How we work



## Future development...

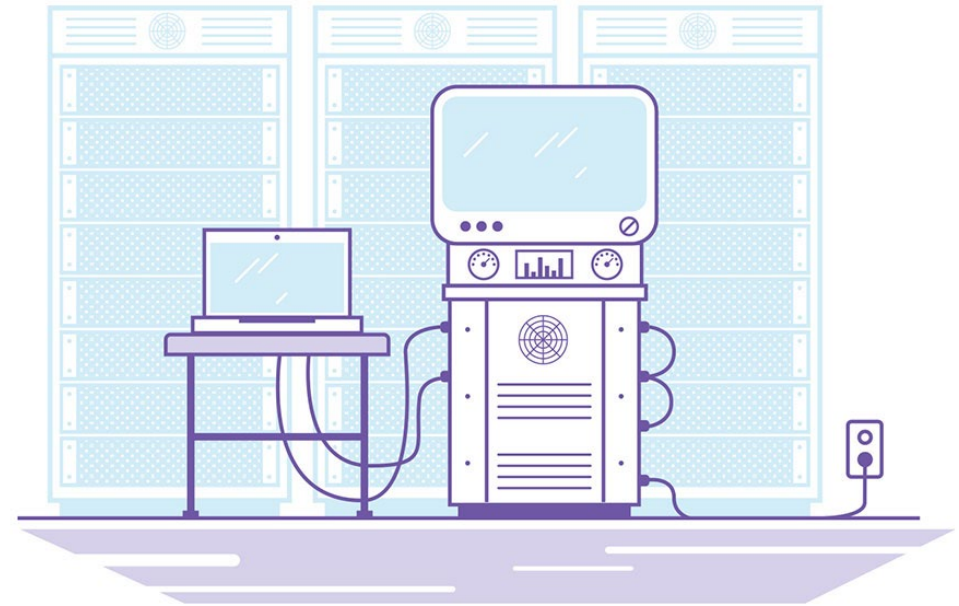
- General UI improvement (usability, accessibility)
- More advanced graphs
- Backend performance improvements
- Continuous security and dependency version upgrades
- Rigorous daily/weekly automated tests for API data

Our goal is to keep the application light, high-quality and available 24/7.



Let's see this in action!

<https://opendata.esett.com>





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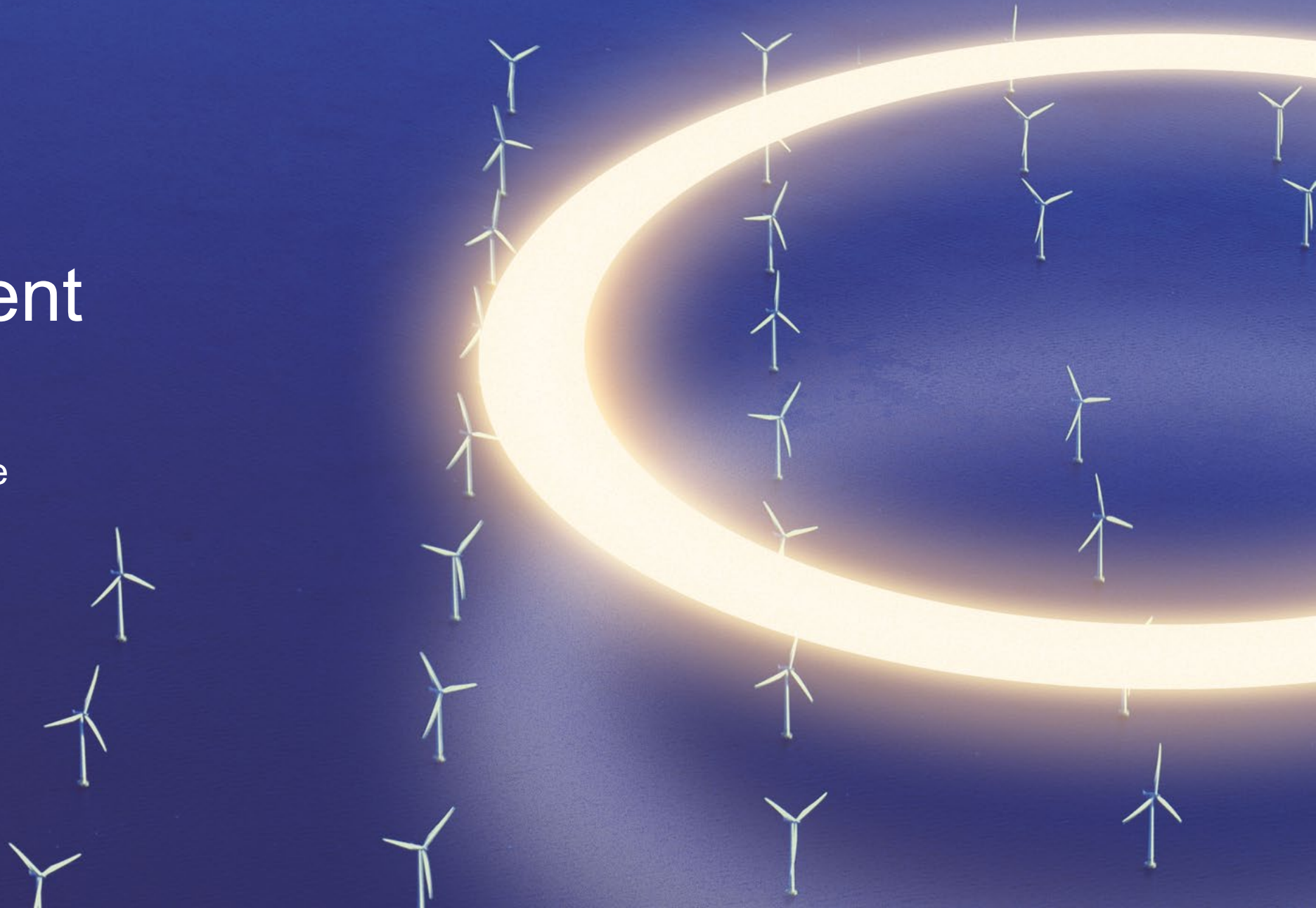


# eSett API development workshop

Customer Committee

Rami Ayoub, Tuomas Pulkkinen,

Ville Rahkonen | 14.5.2025





# Agenda of the workshop

- Introduction 30 min
  - eSett API project plan
    - including review of the INFS scope, current state of INFS usage
  - Demo of eSett API
  - Summary of questionnaire results
- Workshop 60 min
- Summary 30 min

# eSett API Introduction and Project Plan



# Objectives

- Introduction
- Scope
- Planned timeline



# Introduction

- We have received a lot of feedback from market parties over the years and we have identified the need for an API.
- The settlement system is being renewed and as part of the renewal, the information service will be phased out.
- We identified an opportunity to build a modern solution and rethink the way we offer data.
  - By separating the API layer from the core system, we gain flexibility in the way data is presented and in implementing new features

# Introduction – What is the eSett API

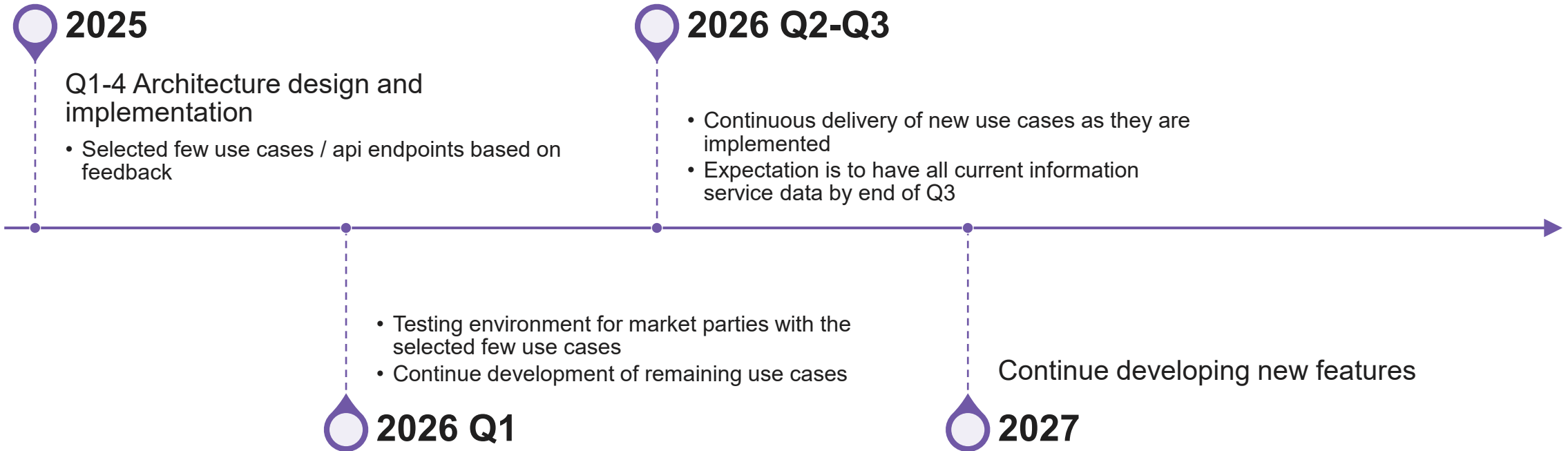
- A modern way for market parties to retrieve their data
  - Using the standard OpenAPI specification, RESTful API endpoints
- Initially the scope is to replace the current Information Service
  - The same data will be made available, but in a different format (JSON) and a more efficient, improved structure
- Continuous development and improvement based on feedback, questionnaires and workshops
  - More use cases
- Longer term plans include bidirectional communication
- It is not intended to replace our core messaging, dataflows or data packages.

# Scope

- Initially planned to replace the current Information Service
  - The same data will be made available, but in a different format (JSON) and a more efficient, improved structure
- Future plans to include more data, based on feedback received, questionnaires and workshops.
- Continuous development and improvement
- Longer term plans include bidirectional communication
- It is not intended to replace our core messaging, dataflows or data packages.



# Timeline



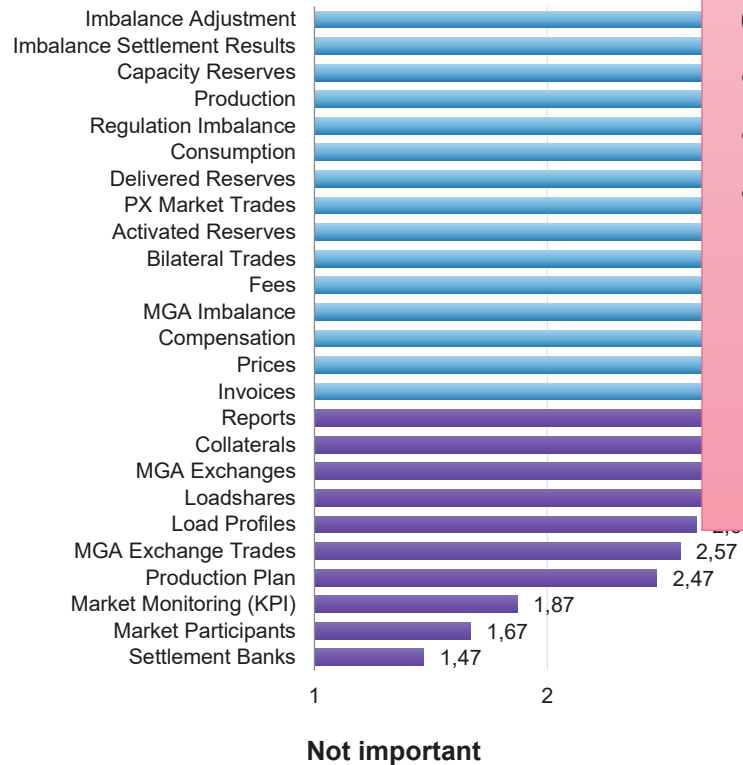
# Summary of Questionnaire Results



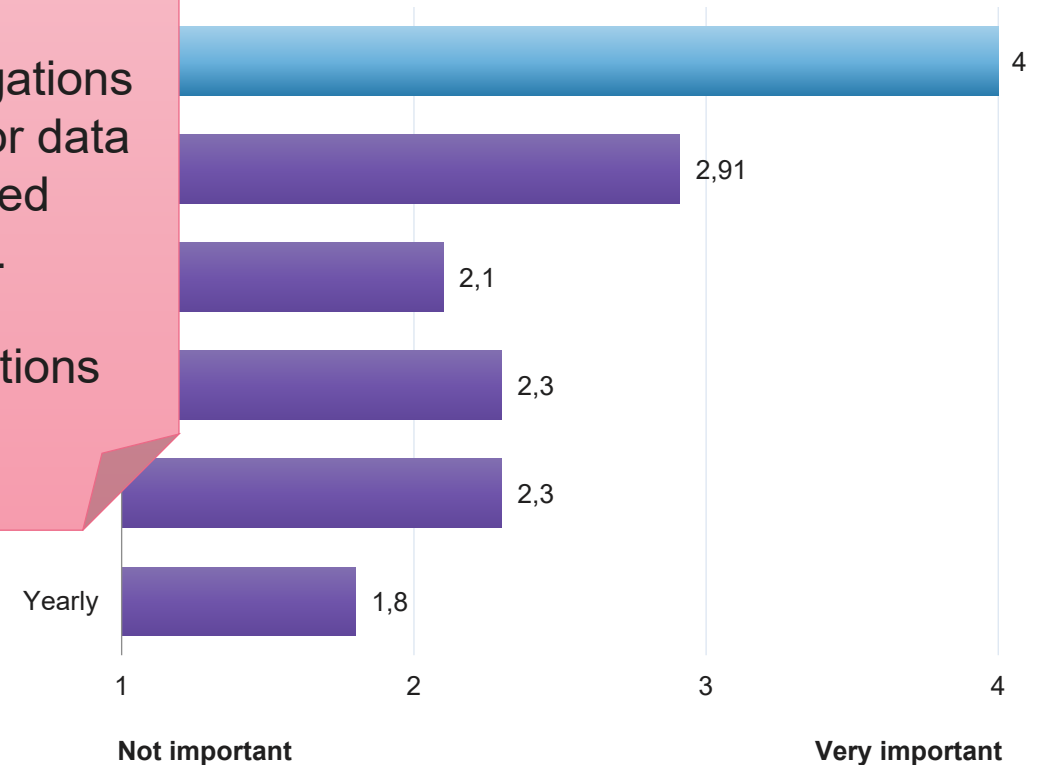
# Results: data and time aggregations



## What data is important? – Average



## What time aggregations are important? – Average

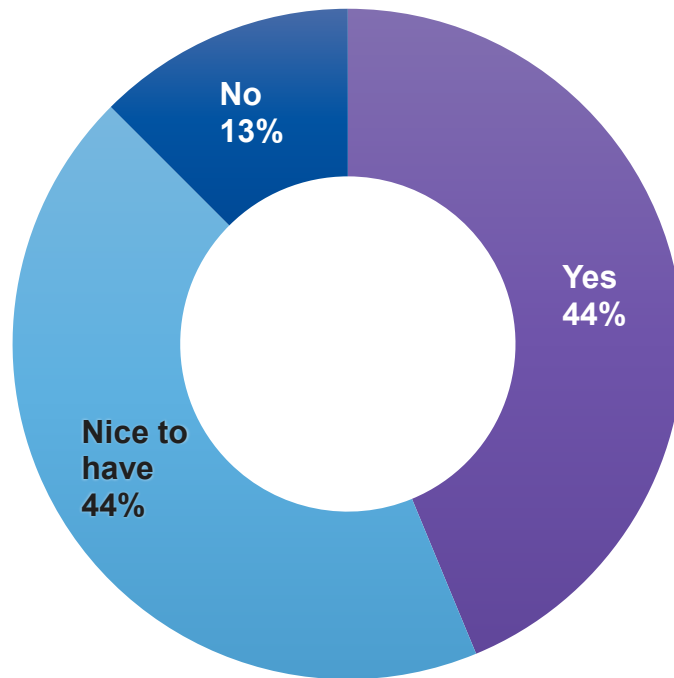


### Conclusions:

- Data > Time aggregations
- Rough priority list for data
- Not all data was listed (open answers) e.g.
  - MEC Changes
  - MGA-MBA relations



# Two-way API ↔



## Data types to be reported to eSett:

- Bilateral Trades  
(multiple same answers)

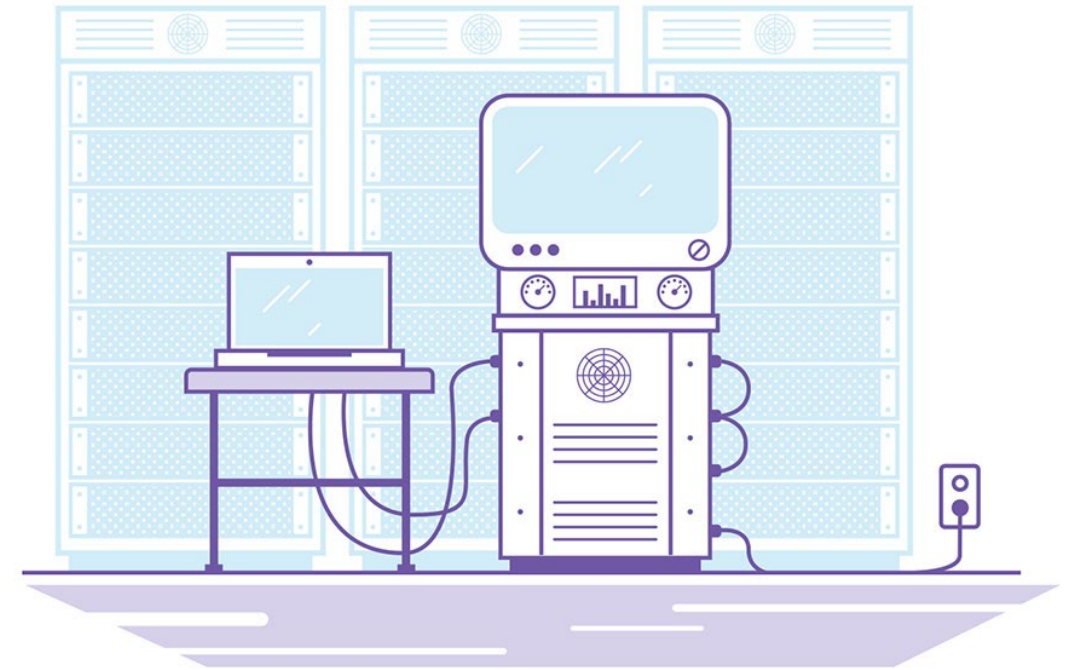
## Conclusions:

- A two-way API should be developed within some time frame.
  - However, it's not the first priority.
- Needed at least the for BRPs and BSPs.
  - Usage for other parties needs to be evaluated further.

# First version of API

Based on the answers so far...

- It's better to deliver something already sooner than everything later.
- Prioritize variety of data over the different time aggregations.
  - E.g. 15-minute resolution data for the top 10-20 data types.
- Well structured API and endpoints that can be expanded.



# Workshop



# Workshop plan

- We will divide into 3 groups, where we'll have individual thinking and group discussions
  - 10 min per question: first 2 min individually writing down thoughts and then 8 min sharing of the ideas in the group
- Questions
  1. What is your feedback on the eSett API project plan?
  2. Detailed questions on eSett API usage:
    1. When fetching data what identification codes are preferred, MEC ID or market party ID or PU/RO code?
    2. How long into the past you would need to fetch the data and why?
    3. What information is critical and what is less critical? Why?
  3. What is your expectation on the testing of the new eSett API?
  4. What risks do you see in the eSett API project and how could we mitigate them?
  5. What is the best possible vision for eSett API and data exchange with eSett in the long run?
    1. What would be reasonable to manage through a bidirectional API in the long term?
  6. Open data: How do you perceive its role and is it beneficial to you or more useful to others? Is there enough awareness about it and if not, how should it be marketed?



WE SETTLE, TOGETHER!

