



eSett News

Customer Committee #2/2018
2018-11-06 eSett office, Helsinki

Agenda

- eSett customer service
- Service request resolve times
- Handbook updates
- Structural changes into the past
- Next major version with new functionalities
- Change to collateral formula
- Operating model for Norwegian data hub (Elhub)

We settle together!

In operation from
2017



Corporate Language **ENGLISH**
Service also in **FINNISH**
NORWEGIAN and **SWEDISH**

Customers:
~ **190** BRPs
~ **500** DSOs
~ **800** REs



Owners (TSOs)

33% Fingrid

33% Statnett

33% Svenska kraftnät



50%
Men

50%
Women



PEOPLE

13 permanent

3 temporary

34 average age

Imbalance settlement for
1222 Metering Grid Areas



36 million market
messages / year



Invoices

190 per week

9900 per year



Headquartered
in **HELSINKI**



1 st and **ONLY**
across border
imbalance settler

Imbalance Energy
turnover **27,5 TWh**
/ the first 12 months

eSett customer service team

Three ways to contact eSett



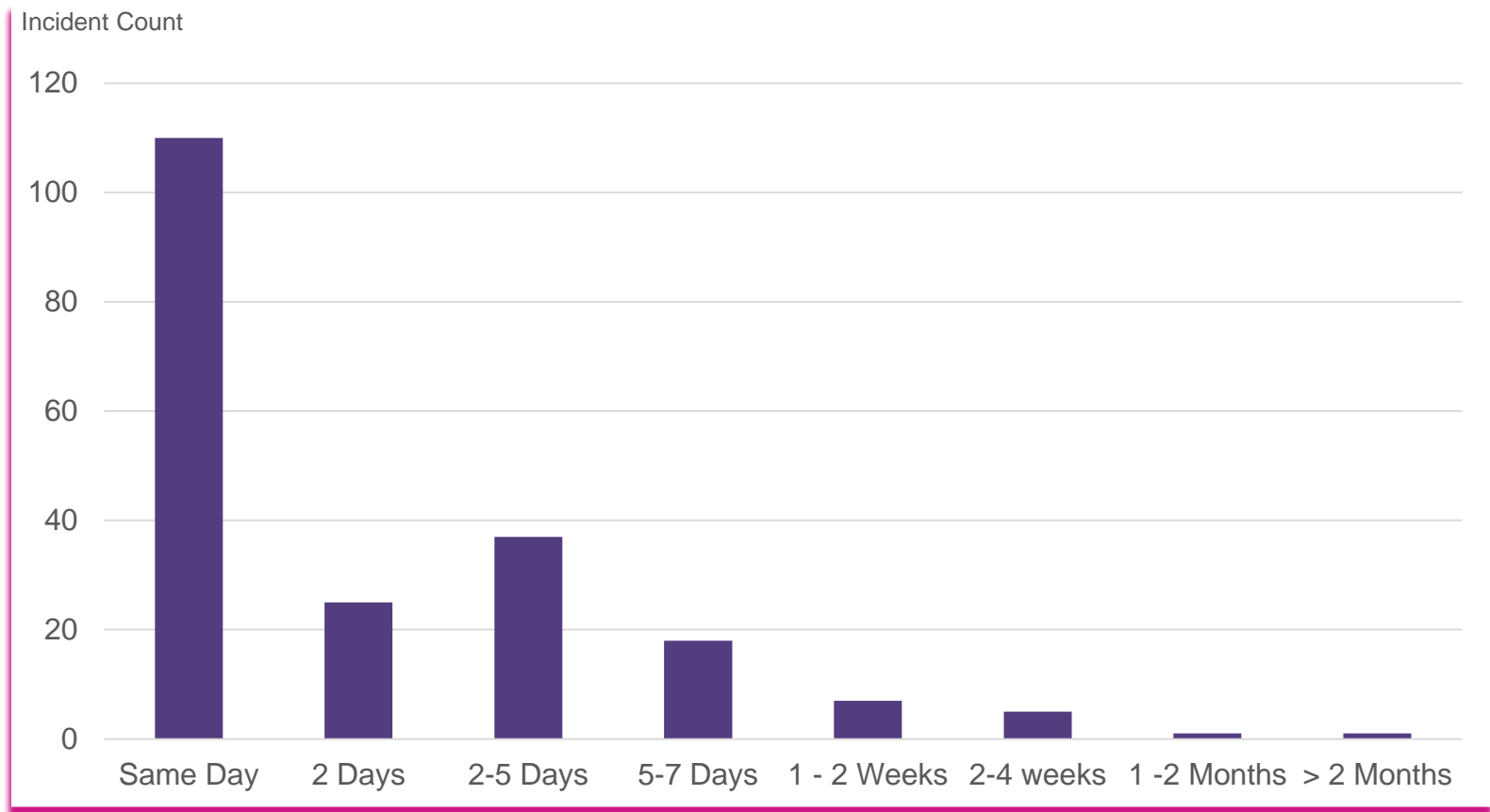
eSett provides support to market participants via three different channels:

- Create Customer Service Request on www.esett.com/contact
- Send email to settlement@esett.com
- Call +358 10 5018500 Open hours 09-15 CET

The team includes:

- Tuomas Lahti (operations)
- Markus Eklund (specialist)
- Kim Saarijärvi (specialist)
- Pauliina Olsson (specialist)
- Diana Welandar (specialist)
- Tuomas Pulkkinen (Specialist)
- Maros Meszaros (external consultant)
- Ville Kärnä (trainee)
- Sasu Saalasti (trainee)

Service request resolve times (Aug-Sept / 2018)



Handbook update 1/2

- eSett will update it's English version of the Handbook soon and will update the language versions by the end of year
- Changes in master version include:
 - Updated gate closures for structures
 - Updated collateral formula
 - Information about introduction of Elhub in Norway
 - Chapter 11 Market behavior reporting has been rewritten

Handbook update 2/2

- Foreword removed and the relevant information added to the introduction chapter.
- Table and Figure numbering updated.
- Metered Data Aggregator added to terminology
- Chapter 1 Updates, clarifications and removal of obsolete information.
- Chapter 2.1 Clarified the differences of Metering and Reporting.
- Chapter 2.2.2 Minor correction: “prices” → “volumes”.
- Chapter 2.2.8 Metered Data Aggregator added
- Chapter 3.5.4 added information regarding Elhub
- Chapter 3.5.5 Metered Data Aggregator added
- Chapter 3.5.8 Updated new gate closures to Table 5 i.e. allowing some changes 7 days back in time.
- Chapter 4 introduction: added information regarding Elhub
- Chapter 5.3 updated figure 11
- Chapter 5.4.x Tables 10-13 and their explanations updated and clarified.
- Chapter 6.2 updated figure 16
- Chapter 6.2.1 replaced DSO with Metered Data Aggregator
- Chapter 9.3.1 Intra-day trades included in the collateral formula
- Chapter 11.1 updated Monitoring information
- Chapter 11.2 updated information about KPI Reports
- Chapter 11.2.2 Information about formulas in KPI Reports
- Chapter 11.2.3 Advanced Settlement Report introduction
- Chapter 11.2.4 BRP Imbalance KPI Report introduction

Structural changes into the past

- The following changes, presented in the previous Customer Committee meeting, have been applied and allow DSOs to structure their data in a more flexible way
- Example: DSO is able to create consumption MEC on Monday to previous Monday and still report values on time for that day
- eSett has received unreserved positive feedback regarding this change

Area/Structure	Consumption	Minor Production	Normal Production
Finland	-7	-7	No change
Sweden	-7	N/A	-7
Norway	-7	-7	No change

In Sweden, all production is handled in production imbalance!

New major version 1/3

- eSett will update its imbalance settlement system at the end of November
 - Outage time and descriptions of key changes will be published beforehand

Shortlist of key changes for Online Service users include:

- KPI reports available in Online Service for BRPs
 - Advanced settlement report (monthly / weekly)
 - BRP Imbalance KPI Reports (only own data for Finnish BRPs and data for whole country for Swedish and Norwegian BRPs)
- Column width in Online Service will be adjustable by the user and columns can be reorganized
- Ability to allow user to choose to view data in different unit resolutions (kWh / MWh) in Online Service

New major version 2/3

- Ability to allow Online Service user to request a user name if current user name has been forgotten
- Inbound structural data flow – PX Market Trades (NEMO)
- Inbound structural data flow – Bilateral trades (BRP)
- Bilateral trade approvals – counterparty BRP must approve the trade before it becomes valid
- Production Imbalance, Consumption Imbalance, MGA Imbalance and Balance report will show last calculation time
 - Also if calculation is ongoing, when it started and when it is estimated to finish
- Addition of timestamps in Online Service about last modification for each time series / hour
 - The last modifier is also presented, i.e. Online Service username or M2M username

New major version 3/3

- Prioritization of values according to status (e.g. measured > estimated) when entering data, so that a lower status cannot override the higher status
 - Results in new validation to data flows MGXI, RPMI and RECI
- Online Service user is able to save user's preferences
 - Ability to save settings such as time period and columns in the system
- New drill down possibility for ONLS Production and Consumption imbalance views
 - For columns normal production and consumption
- It is planned that quite soon after the major release we will extend the calculations more to the future
 - Calculated period will then be from D-14 to D+7
 - Also the MECs will be open for reporting to the future D+7

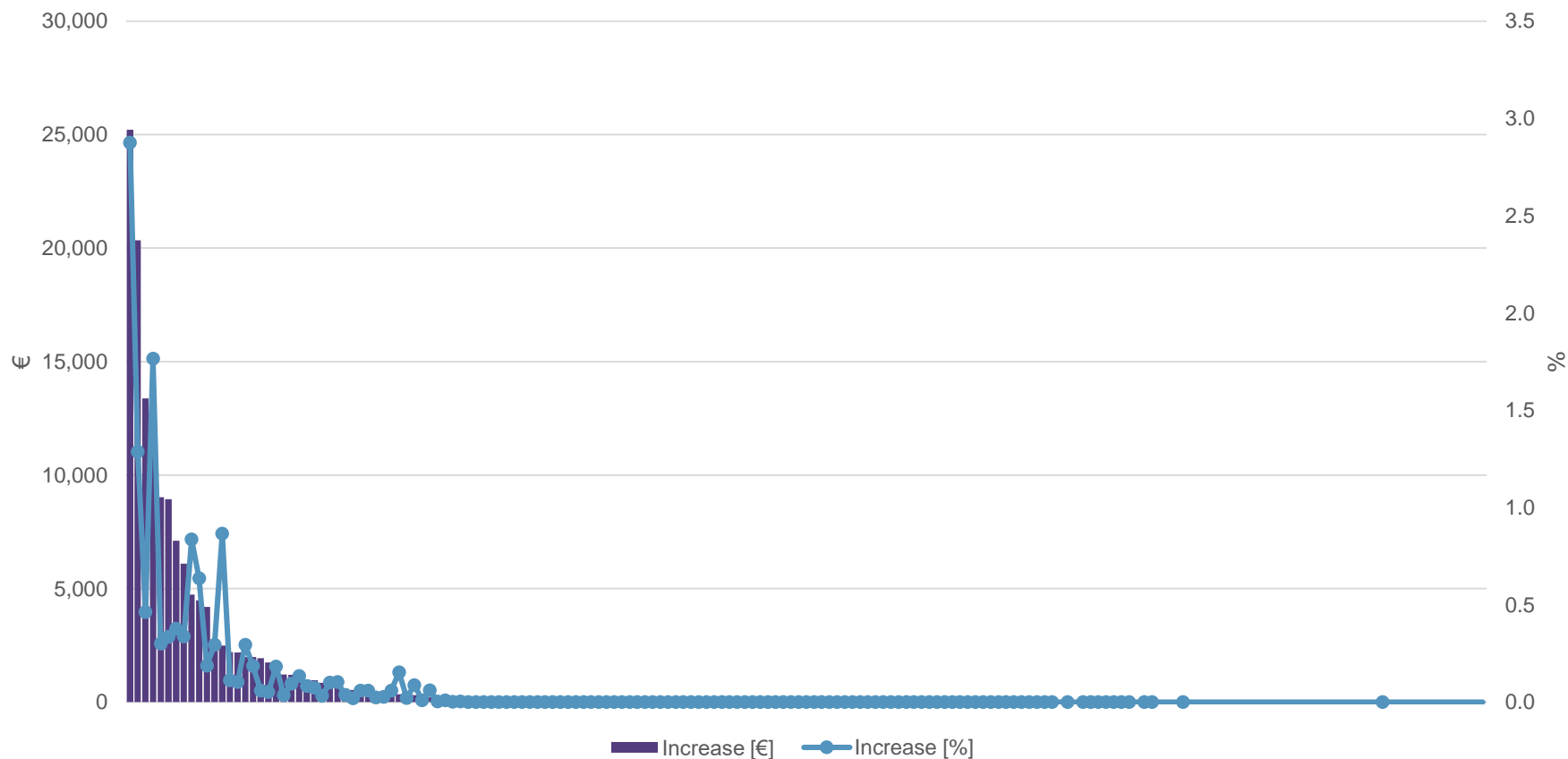
Adjustment to collateral formula

- eSett plans to update the formula for collateral calculation to better reflect on market behavior where BRP (only) trades in intraday market
- Compared to current formula, only the component V2 is planned to be changed so that after the change it contains:
- *"Bilateral Trades, PX Market day-ahead **and** PX Market intraday sales volumes during the last seven days for which such volumes are available (current day minus 8 days to current day minus 2 days)"*
- With this addition we will avoid the situation where BRP has placed only minimum collaterals but is trading significant volumes → eSett is better protected against the risk of misbehavior
- The TSOs support the proposed change
- The new formula is planned to be applied for the first time on Monday the 3rd of December calculation

$$\text{Collateral Requirement} = 3 \times (S_1 + S_2) + m \times (V_1 + V_2) \times P$$

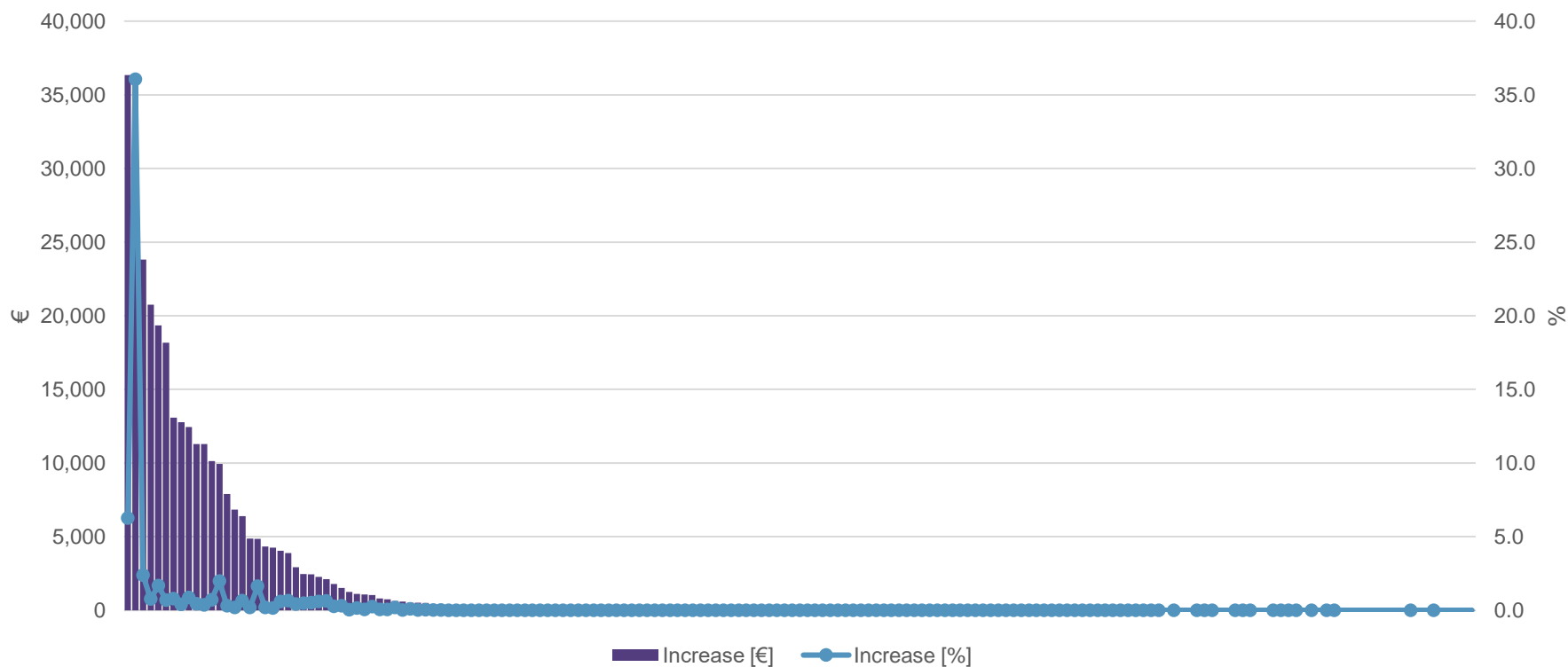
Simulated influence of the change to the collateral level, week 5, 2018

Collateral increase (€, %), week 5



Simulated influence of the change to the collateral level, week 30, 2018

Collateral increase (€, %), week 30

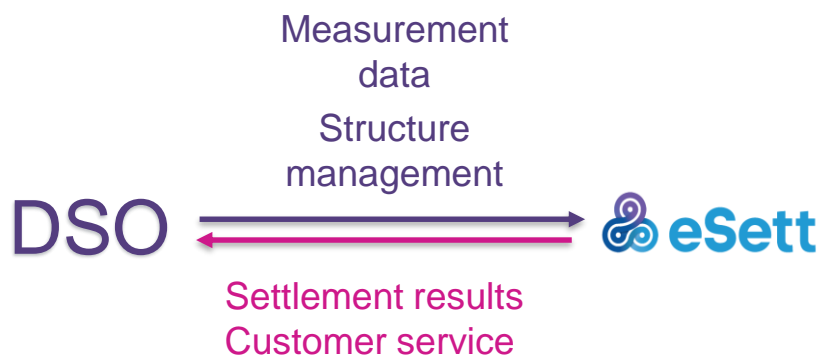


Operating model for Norwegian data hub (Elhub)

- On the 18th of February 2019 Elhub will start its operation in Norway
- This means that DSOs no longer report to eSett but Elhub instead and Elhub manages the structuring and reporting in eSett's system
- DSO users will have read rights to their own data at Online Service
- Elhub will act as a Service Provider to all DSOs with administration rights
- Elhub will be the main contact point for DSOs in the future
- eSett is evaluating a possibility to share outgoing data also to DSOs via M2M in case they would need it

DSO communication change due to Elhub

CURRENT
STATUS



FUTURE

