

Market development plans from the TSOs

eSett Customer Committee meeting, June 21st 2017

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CROSS-BORDER INTRADAY (XBID)

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Cross-Border Intraday (XBID)

- XBID is a joint initiative involving the Power Exchanges (EPEX SPOT, GME, NORD POOL and OMIE) and TSOS from 11 European countries
- Aim to create a joint integrated intraday cross-border market
- The intraday market solution will be based on a common IT system with one Shared Order Book, a Capacity Management Module and a Shipping Module
- Go-live planned for Q1 2018

Cross-Border Intraday (XBID)

How does XBID affect eSett?

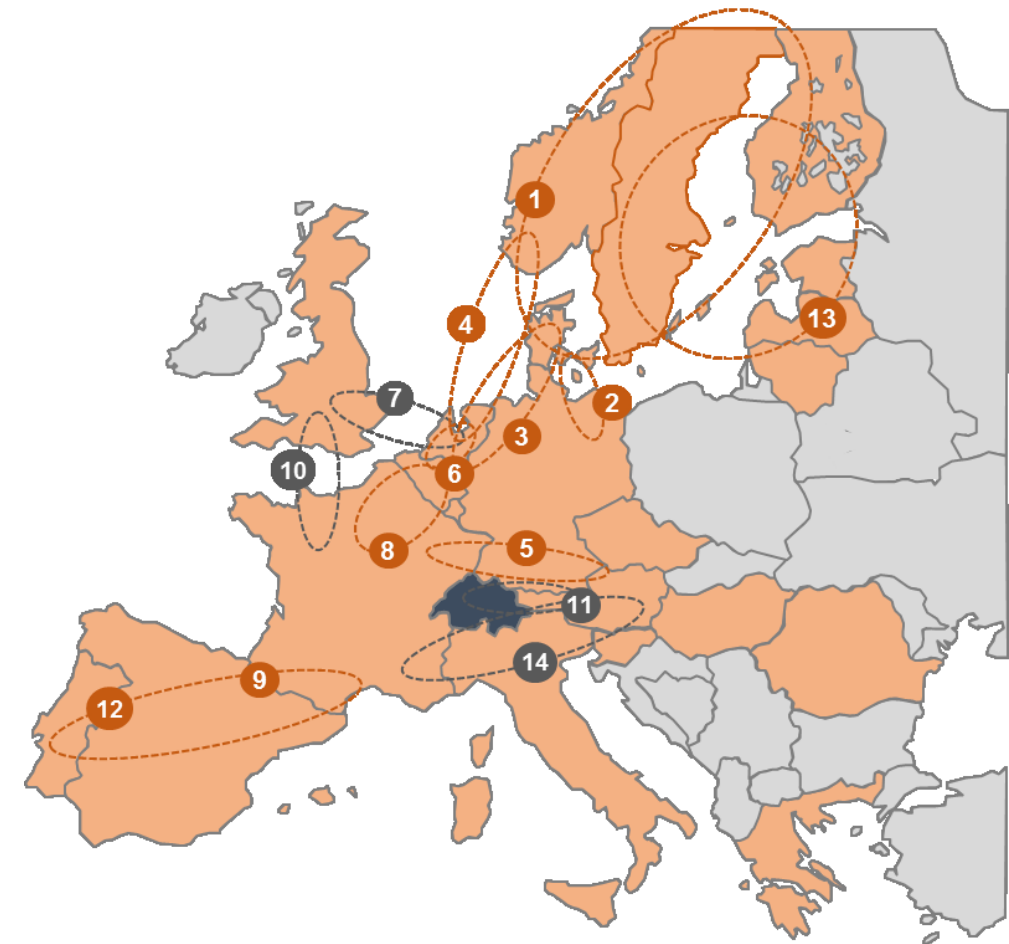
- Enables multiple Nemo's
 - eSett to receive trades and flows from multiple sources
 - Adaptions are under implementation

Part of go-live Q1 2018

| LIP | Participants |
|-----|---------------|
| 1 | Nordic |
| 2 | Kontek |
| 3 | DK1/DE, DE/NL |
| 4 | NorNed |
| 5 | FR/DE, DE/AT |
| 6 | NL/BE |
| 8 | FR/BE |
| 9 | FR/ES& ES/PT |
| 12 | |
| 13 | Baltic |

Go-live at a later stage

| LIP | Participants |
|-----|-----------------------------|
| 7 | BritNed |
| 10 | IFA |
| 11 | AT/CH |
| 14 | INB |
| 15 | DE-CZ, AT-CZ, AT-HU, HU-RO* |



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15MIN SETTLEMENT

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15min settlement

- The Balancing guideline has been approved
- Will enter into force approx. Q4 2017

Article 53

Imbalance settlement period

1. By three years after the entry into force of this Regulation, all TSOs shall apply the imbalance settlement period of 15 minutes in all scheduling areas while ensuring that all boundaries of market time unit shall coincide with boundaries of the imbalance settlement period.
- Based on this, 15min settlement should be implemented by the end of 2020
 - A country may apply for a *delay* until at the latest 2025
 - The synchronous area may apply for an *exemption*
 - Not a question in the Nordic countries if to do it, but rather how and when?

15min settlement

- A change to 15min settlement will amongst other affect
 - The balancing market and imbalance prices with 15min resolution
 - Intraday market or intraday auction with 15min resolution
 - Day-ahead on hourly basis (ECEP aim for 2025)
- Nordic project ongoing to evaluate different concepts and cost / benefits
 - Expected conclusion after the summer
- Next phase is to detail the concept and plan the implementation
 - Involvement of eSett

Guideline on electricity balancing

Guideline on electricity balancing

- Harmonized settlement rules and pricing of imbalances
 - One balance and one-price settlement
- Changes to how the imbalance price is calculated
 - More than mFRR activation to affect the prices
- Nordic project ongoing to recommend changes, "*full-cost balancing*"



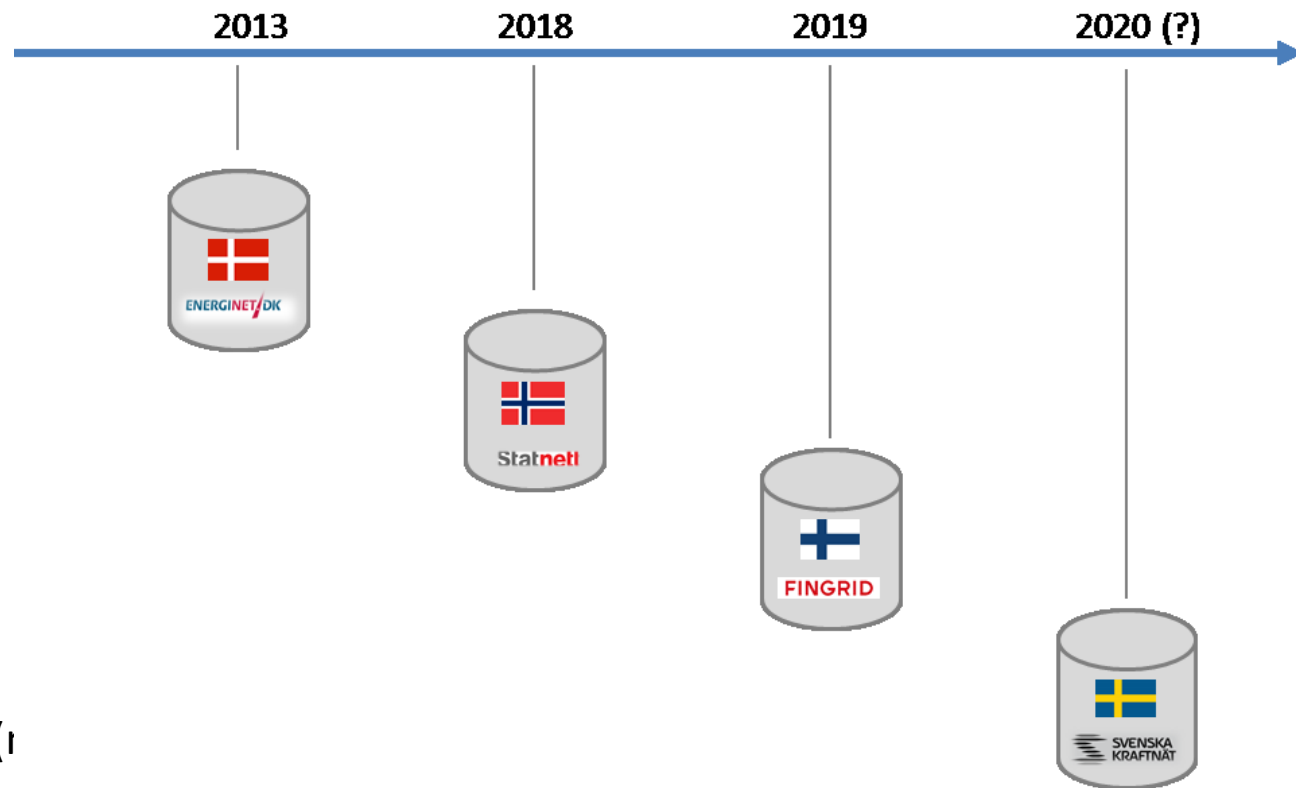
DATAHUBS IN THE NORDICS

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Datahubs in the Nordics



Facilitate:

- National electricity market
- Efficient distribution of metering data (I
- Support national market processes

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Datahubs in the Nordics

- The datahubs will take over responsibilities related to imbalance settlement from the DSOs.
 - E.g the Norwegian Elhub will be responsible for settlement data reporting and settlement structure updates
- Current implementation requires datahubs to operate as service provider for hundreds of DSOs. This requires more automated procedures to ensure efficient operations
- Dialogue with eSett on different enhancements and adaptations
 - Utilizing XML files for updating settlement structures
 - Defining principles and processes for incorporating new market rules. E.g gate closures
 - Efficient handling of large data quantities

Bilateral trade Reporting

Bilateral trade Reporting

- Current reporting of bilateral trades in Sweden differs from Finland and Norway
- From September 25th (23:15 in Swedish normal time) bilateral trades within Swedish MBAs will be reported directly to eSett
 - Reporting on RE-level
 - Messages in XML-format
- Harmonized solution regarding bilateral trade reporting
- Structure updates are needed
- Detailed instructions and information due to this change will be provided by eSett in week 25