EPEX SPOT Nordic offer is live competitive, complete, innovative

Audrey Giffard, Marketing Manager at EPEX SPOT
Successful launch and member trust

Successful Nordic go-lives in May and June:

- **Intraday Continuous – 25 May**
  - ✔ 12 Nordic bidding zones coupled

- **Day-Ahead Auction – 3 June**
  - ✔ 12 Nordic bidding zones coupled

Members support from day 1:

- **Intraday Continuous**
  - ✔ Trades registered in the 12 Nordic areas as of day 1
  - ✔ 1st trade executed less then 20 seconds after opening

- **Day-Ahead Auction**
  - ✔ Trades registered in the 12 Nordic areas as of day 1
Unique auction offer to the Nordic members

Market offer

- DK Day-Ahead MRC Auction
- FI Day-Ahead MRC Auction
- SE Day-Ahead MRC Auction
- NO Day-Ahead MRC Auction

Unique orders types
offering flexibility to all

- Linear orders, up to 256 price offers
- Simple, Big blocks & Curtailable blocks
- Linked blocks, up to 7 generations
- Exclusive blocks, up to 24 per group
- Loop blocks, up to 800 MWh/h

API access

We have found EPEX SPOT to be a great partner for our growing asset optimisation business and we look forward to further contribute to the growth of the Nordic markets. By working together on innovative solutions for both PPAs and supply customers, we contribute to the acceleration of the energy transition.

WE ARE LIVE IN THE NORDICS.

part of eex group
epexspot

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Day-Ahead: Secured price formation

Nordic single price is fully preserved

Based on the Nordic & Baltic Multi-NEMO Arrangements, a single regional Day-Ahead price is always secured amongst all NEMOs.

In case no Nordic market result is found at 8pm D-1, a harmonised fallback procedure is applied: previous day results applies to all NEMOs.

1 single price for all Nordic NEMOS
EPEX SPOT Day-Ahead blocks superior offer

A superior offer in terms of block volumes

- EPEX SPOT
- Competition

<table>
<thead>
<tr>
<th>Volume of classic blocks</th>
<th>Volume of big blocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 MW</td>
<td>800 MW</td>
</tr>
</tbody>
</table>

A superior offer in terms of # of blocks

- EPEX SPOT
- Competition

- Classic blocks
- Generations of a linked Block Order family
- Block Orders in a linked Block Order family
- Block Orders in a loop Block family
- Exclusive Block Order families for a (portfolio, Market Area) combination
- Linked Block Orders families for a (portfolio, Market Area) combination
- Children for a parent Block Order
- Parents for a child Block Order
- Block Orders in an exclusive group
Orders types
fitting the Nordic energy mix

• Loop blocks to optimize your storage facilities
• Curtailable blocks adapted to thermal units
• Linked blocks to sophisticate your optimization strategy
• Large blocks to value large assets

Curtailable blocks

Loop blocks

Either both accepted or both rejected

Nordic electricity generation mix (2017)

Source: Nordic Council of Ministers
Extending the M7 performance to the Nordics

Market offer
- DK Continuous Intraday (XBID)
- FI Continuous Intraday (XBID + local till 0min)
- SE Continuous Intraday (XBID)
- NO Continuous Intraday (XBID)

Advanced order types
to support smart trading
- Immediate or cancel (IOC)
- Fill or Kill (FOK)
- All or None (AON)
- Baskets and Baskets linked FOK
- Market sweep orders

Our strategy is centred around leveraging the latest technologies and empowering our traders to be the best within their markets. We welcome EPEX SPOT to the Nordics and look forward to also be using its trading solutions for the Nordic areas.

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Praised intraday performance in Europe

Platform
scalable and of high performance

—
Robust & fast machine
• High availability rate
• Low latency even at peak-times
—
State-of-the-art API technology
• Robust to high load
• Dedicated API technical support
• Largest community of ca. 20 certified ISVs
Expanding your one-stop-shop to the Nordics

<table>
<thead>
<tr>
<th>FUTURES MARKET</th>
<th>DAY-AHEAD AUCTION</th>
<th>INTRADAY CONTINUOUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year/Month/Week before delivery</td>
<td>One day before delivery</td>
<td>Until 5 min before delivery</td>
</tr>
</tbody>
</table>

- **HEDGE** fluctuations
- Value **PRODUCTION CONSUMPTION**
- Value **FLEXIBILITY**

**ecc** Integrated & Secure Clearing Solution

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EPEX SPOT - Your Partner in Trading
Join us in the Nordics!

- **Liquidity from Day 1**
  - 100% Secured
- **Widest Range of Trading Products**
- **Safer & Economical Clearing**
- **Best-In-Class API Solutions**
- **Most Performant Intraday Market**
- **Providing the Latest Innovations**
- **Efficient Data & Reporting Services**
- **24/7 Client Support**

We welcome the increased competition in the Nordics. We always trade on the venue that offers the best value proposition for us. The entry of EPEX as a new NEMO in the Nordics allows us to trade on our Exchange of choice in this region too.

**Energi Danmark**

We are live in the Nordics.

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Annex
Registration – take advantage of our Nordic offer

What do I need?

External requirements

- BRP Registration
- Trading License (Norway only)
- VAT registration (Norway only)

EPEX & ECC requirements

- Updated Trading agreement (TA)
- Updated ECC Trading Participant (TP) form

Send completed forms to membership@epexspot.com or contact sales@epexspot.com who will guide you through the process step-by-step
All you need to know in an up-to-date FAQ

DCP clearing model will be offered in the Nordics

NOMINATIONS
For Finland, Norway, Sweden, nominations are single-sided, i.e. only ECC is able to send the nominations to eSett.

For Denmark, nominations are double-sided with priority rule for ECC, i.e. ECC and the trading member send nominations to Energinet.

TRADING SESSION
Contracts open for trading at 14:00 the day before delivery of the contract for DK, FI, SE, NO

Contracts close 60 minutes before delivery start of the contract for DK, NO, SE and 30 minutes before delivery start of the contract for FI

Local trading as a XBID back-up only

Cross-margining of trading exposure will be possible with Nordics spot markets
Thank you for your attention!

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