

EPEX SPOT

Power for Today. Power for Tomorrow.

Join us in the Nordics

Webinar, 05 April 2022



TO WATCH THE LIVE RECORDING
[CLICK HERE](#)

Panelists

Svetlana Grace, Senior Key Account Manager

Monika Suntinger, Senior Sales & E-learning
Coordinator

Maria Kitano, Marketing Manager

Agenda

1. About EPEX SPOT
2. Our Nordic offer: Advanced trading systems & technology
3. Market Data Services
4. Clearing Services
5. Transparency Services
6. Future developments
7. Sign up to trade!

EPEX SPOT at a glance

20+ nationalities
in staff

300+ members

7 European
shareholders

51% private, 49% TSOs

13 markets
operated

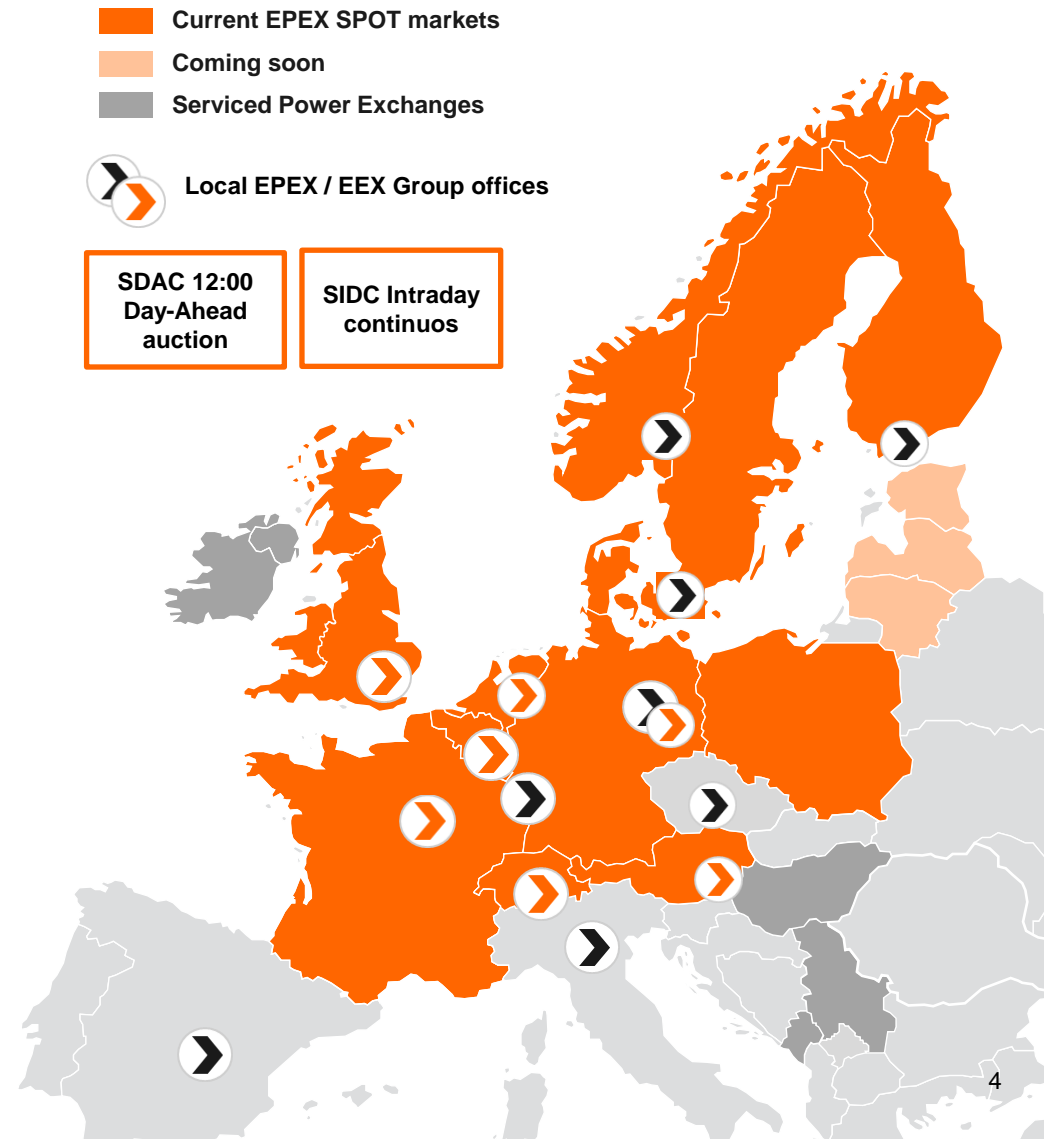
21 borders

market-coupled

7 local offices
across Europe

14 EEX Group

Markets covered under the roof of
the Clearing House **ecc**



Your one-stop-shop trading venue across timeframes and commodities

› **eeX**

› **epexspot**

**FUTURES
MARKET**



**DAY-AHEAD
AUCTION**



**INTRADAY
CONTINUOUS**

Year/Month/Week
before delivery

One day
before delivery

Until delivery &
After delivery

HEDGE
fluctuations

Value **PRODUCTION
CONSUMPTION**

Value
FLEXIBILITY

› **ecc**

Integrated & Secure Clearing Solution



**RICHEST
MARKET DATA OFFER**



**REMIT
REPORTING**



**TRANSPARENCY
SERVICES (UMM,...)**

Your one-stop-shop trading venue across timeframes and commodities



EPEX is a licensed NEMO in CWE, Nordic, Polish and Baltic regions*

*Nominated Electricity Market Operator

Empower your trading experience

Enhanced Trading **Experience**

Financial **Security**

Operational & IT **Simplification**

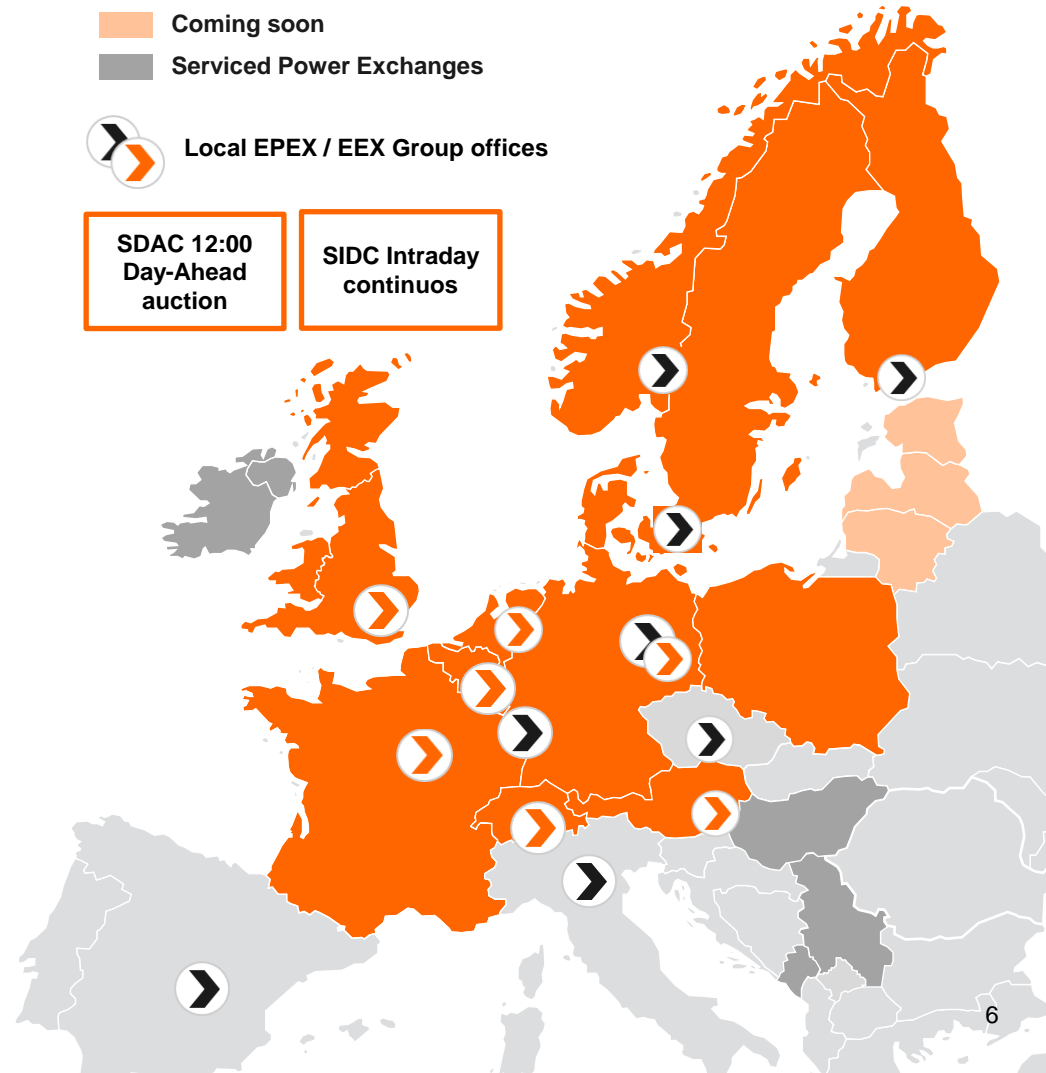
Economies of scale

Offering innovative products and services, based on highly performant and secure technologies.

- Current EPEX SPOT markets
- Coming soon
- Serviced Power Exchanges
- Local EPEX / EEX Group offices

SDAC 12:00
Day-Ahead
auction

SIDC Intraday
continuos



Dynamic Market Growth & Trends

621 TWh

traded in 2021 on all
EPEX SPOT markets

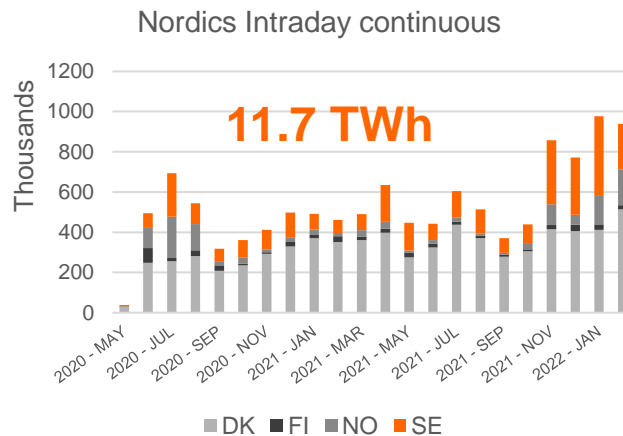
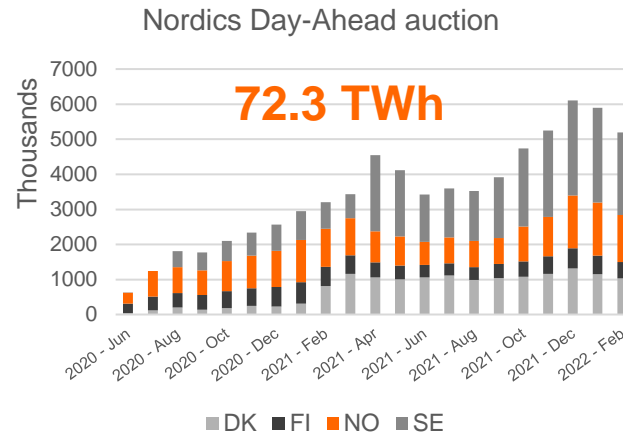
+0.8% Y2Y

Largest Intraday
market in Europe with

123 TWh

traded in 2021

+10% Y2Y



Source: EPEX SPOT

Nordic markets launched in Q2 2020

- › Solid community of trading members already onboarded
- › Brought increased liquidity to Nordic Intraday markets – **88% increase** from 2020 to 2021

Please note that volumes are calculated by using the common industry standard in electricity and exchange business: For auction trading, the **one-sided Market Clearing Volume is listed. For continuous trading, the **aggregated sell & buy volume is divided by 2**.*

EPEX SPOT Nordic offer

Robust Nordic SDAC Day-Ahead auction

Single Day-Ahead price is fully **preserved**

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

In case of SDAC decoupling, a harmonised Nordic back-up procedure is applied: **previous day results apply to all Nordic NEMOs**



Benefit from

Liquidity guaranteed

API access and support

Unique products fitting the Nordic energy mix

Innovating the Nordic Intraday continuous

Benefit from

Liquidity fully secured with SIDC

API access with best-in-class API solutions

Most performant Intraday market

Advanced order types

to support smart trading

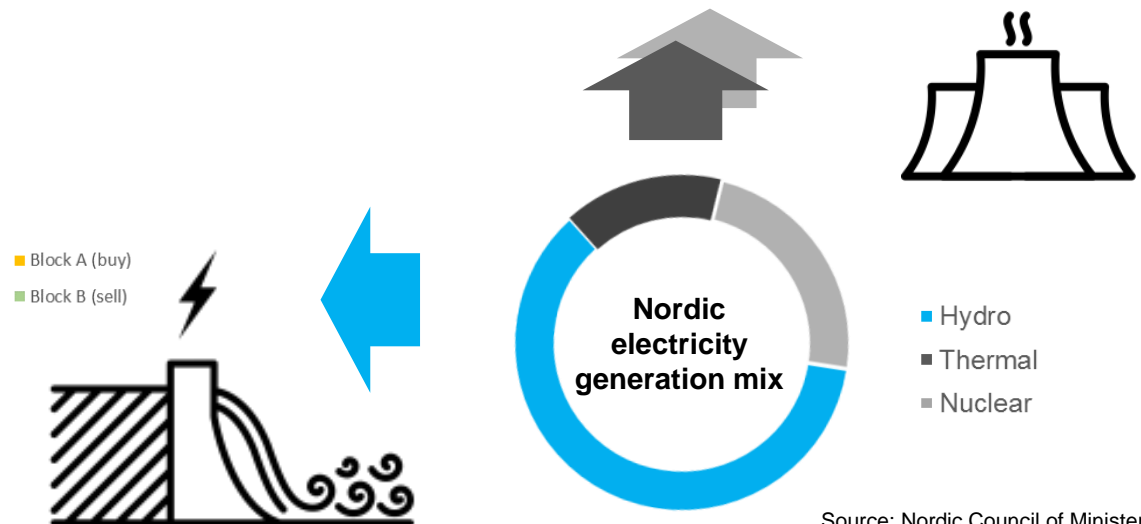
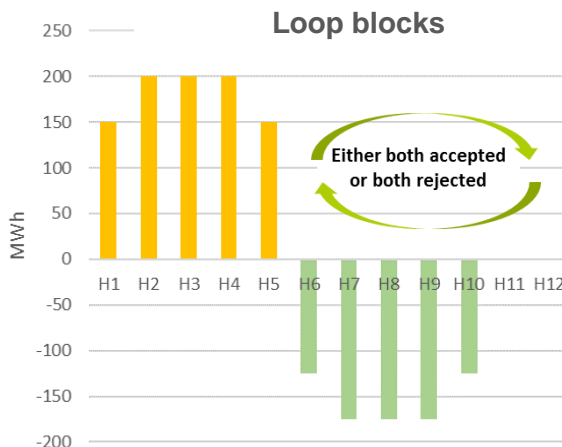
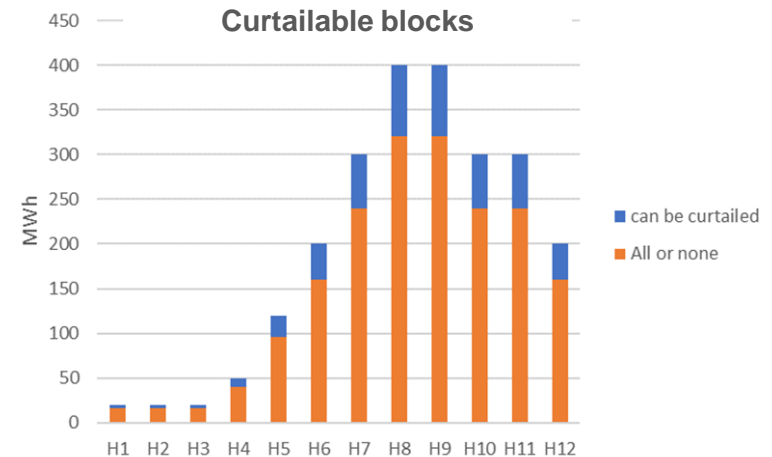
- *Immediate or cancel (IOC)*
- *Fill or Kill (FOK)*
- *All or None (AON)*
- *Baskets and Baskets linked FOK*
- *Market sweep orders*

Smart blocks to perfectly fit your optimization needs in our Day-Ahead auctions

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



Source: Nordic Council of Ministers

Nordic product specifications – Day-Ahead auction

	Trading procedure	Daily Auction
	Trading days	Year-round
	Order book opening / closure	45 days before the Delivery Day / daily at 12:00
	Products	Piecewise Linear + Blocks
	Classic Block orders	For each block a minimum acceptance ratio $0 < \text{MAR} \leq 1$ Max volume for a classic Block Order 500 MW Max # of classic Block Orders per Delivery Day and per portfolio: 100
	Linked Block orders	Max # of generations of a linked Block Order family: 7 Max # of Block Orders in a linked Block Order family : 7 Max # of children for a parent Block Order: 6 Max # of parents for a child Block Order: 1 Max # of linked Block Orders families for a (portfolio, Market Area) combination: 5
	Exclusive group Block orders	Max # of Block Orders in an exclusive group: 24 Max # of exclusive Block Order families for a (portfolio, Market Area) combination: 5
	Loop Blocks	Max # of Block Orders in a loop Block family: 2 Max # of looped Block Orders families for a (portfolio, Market Area) combination: 3 Max aggregated net volume per hour: 800 MW
	Big Blocks	Max # of classic big Blocks per SAB portfolio: 10 Max # of exclusive big Blocks per SAB portfolio: 5 Max # of linked big Blocks per SAB portfolio: 5 Max # of looped big Blocks per SAB portfolio: 6 Max size of big Blocks per SAB portfolio: 800 MW
	Price tick order submission	0.1 €/MWh
	Precision published price	0.01 €/MWh
	Price limits order entry	[-500 €/MWh ; 3000 €/MWh]
	Volume tick	0,1 MW

Advanced technological solutions to support the growth of the Intraday continuous market

Proven technical performance

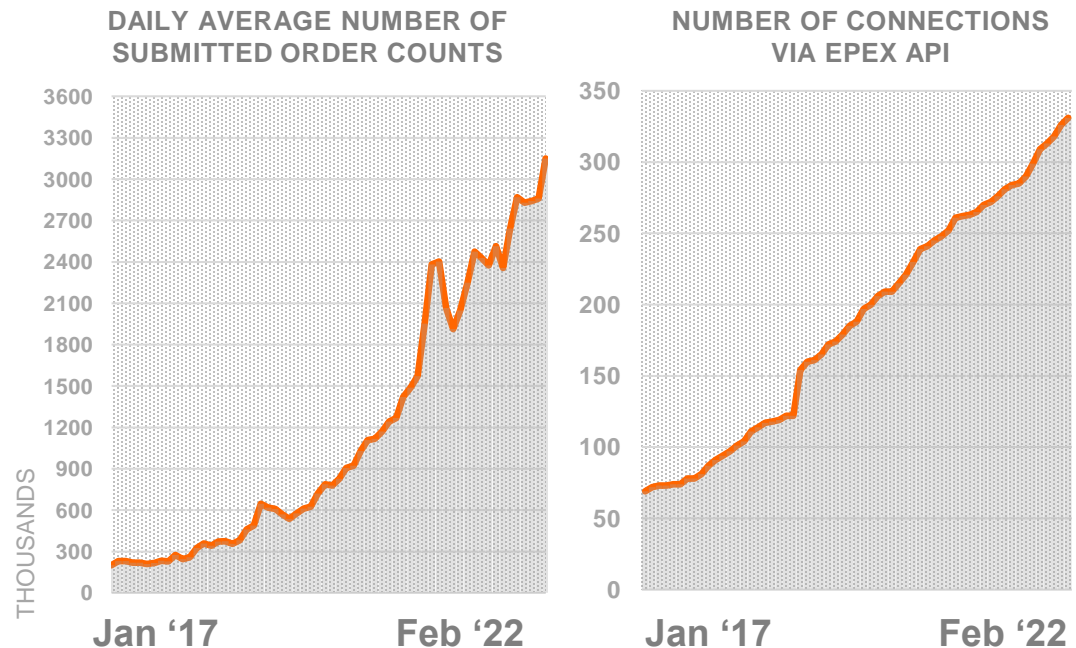
adapted to new market behavior

› **Matching performance and robustness to load are key** in facilitating the management of faster-moving Intraday markets and digitalisation of trading





› API vs. ComTrader

- Ratio of traded volumes for API: **55%**
- Ratio of trade origins (orders) for API: **79%**

- On average, **3,000,000+ orders** submitted daily
- Availability rates over **99.9%**
- API dedicated **client support**
- **20+** certified ISVs (see full list [here](#))



Nordic product specifications – Intraday continuous

	Trading procedure	Continuous
	Trading days	Year-round
	Expiries	1 hour (24 contracts / day) + Blocks
	Order book opening	14:00 CET D-1
	Order book closing	60 min before delivery in DK, NO, SE 0 min before delivery in FI
	Products	SIDC & Local
	Minimum and maximum price	-9 999 € / 9 999 €.
	Minimum price increment	0.01 €/MWh
	Volume tick	0.1MW

Back-up local trading is available in DK, FI, SE & NO on EPEX LTS for specific pre-defined blocks:

1. Continuous_Power_Base
2. Continuous_Power_Peak

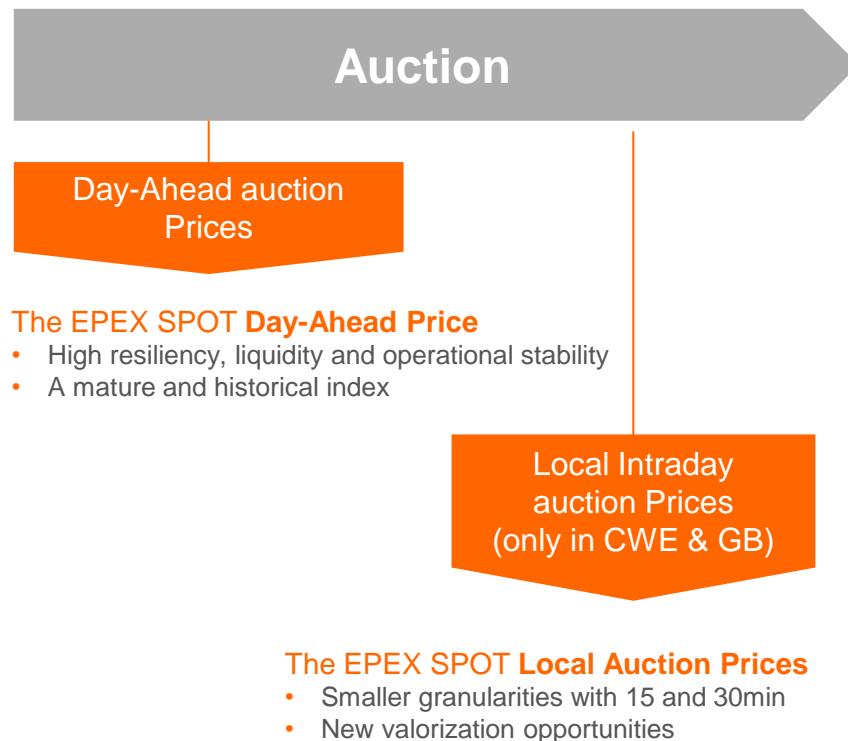
In case of SIDC outages, it will be possible to trade locally in all Nordic market areas.

Market Data Services

New price indices to support all trading strategies in a fast moving power market

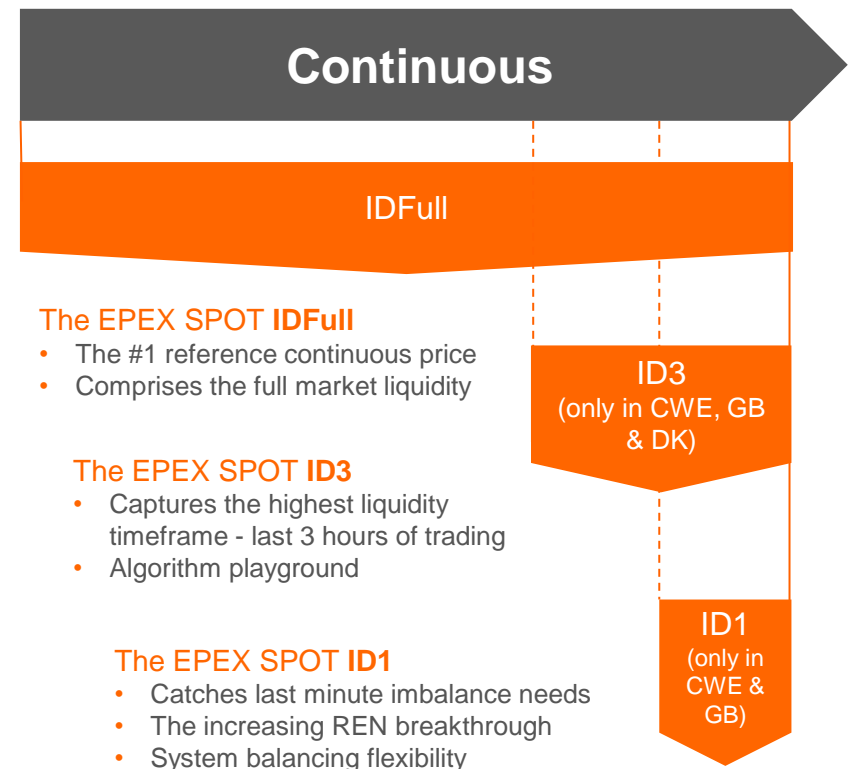
Auction Prices

to support your **daily strategies**



New Continuous Prices

to value **creative and smart trading**



Transparency

Prices displayed
in Euro

1 single auction
status for all MRC

Select your filters

Reset filters

Trading Modality

Auction

Continuous

Capacity Auction

Market Segment

Day-Ahead

Intraday

Trading Date

Delivery Date

01 Apr. 2022

02 Apr. 2022

Product

60 min

30 min

View

Map

Table

Graph

Aggregated Curves

Access Data in Webshop

Captions

- EPEX markets
- Serviced PX
- Coming soon

Filters



Auction Status

Last Update: 04 April 2022 (18:03:06 CET/CEST)

MODALITY	STATUS
Intraday 15-call-AT	●
Intraday 15-call-BE	●
Intraday 15-call-DE	●
Intraday 15-call-NL	●
Intraday 30-call-FR	●
Intraday 30-call-GB	●
Day-Ahead CH	●
Intraday CH IDA1	●
Intraday CH IDA2	●
Day-Ahead SDAC	●
Day-Ahead GB	●
Intraday GB IDA1	●
Intraday GB IDA2	●

See complete Market status

Privacy settings

Data filtering per Market Area eases the browsing – History of data available to EPEX SPOT members

Transparency – Publication of All NEMO aggregated curves

Select your filters

Reset filters

Trading Modality

Auction

Continuous

Capacity Auction

Market Segment

Day-Ahead

Intraday

Trading Date

Delivery Date

04 Apr. 2022

05 Apr. 2022

Product

60 min

30 min

View

Map

Table

Graph

Aggregated Curves

Market Area

AT

BE

CH

DE-LU

DK1

DK2

FI

FR

GB

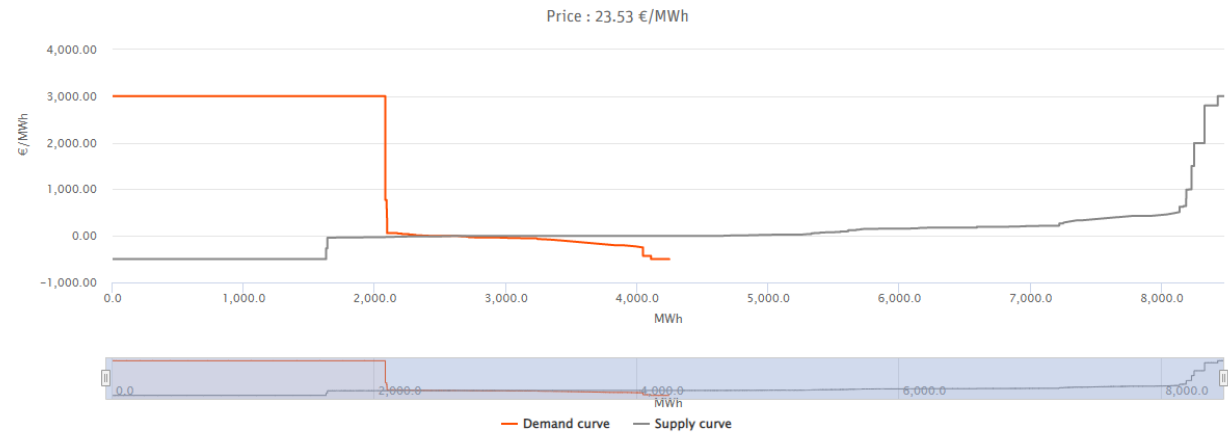
NL

Filters

00 01	01 02	02 03	03 04	04 05	05 06	06 07	07 08	08 09	09 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	18 19	19 20	20 21	21 22	22 23	23 24
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Auction > Day-Ahead > 60min > DK1 > 05 April 2022

Last update: 04 April 2022 (13:09:06 CET/CEST)



Displayed information include all orders submitted to the operating NEMOs. These orders have been aggregated at country level – not bidding zone – in the concerned area.

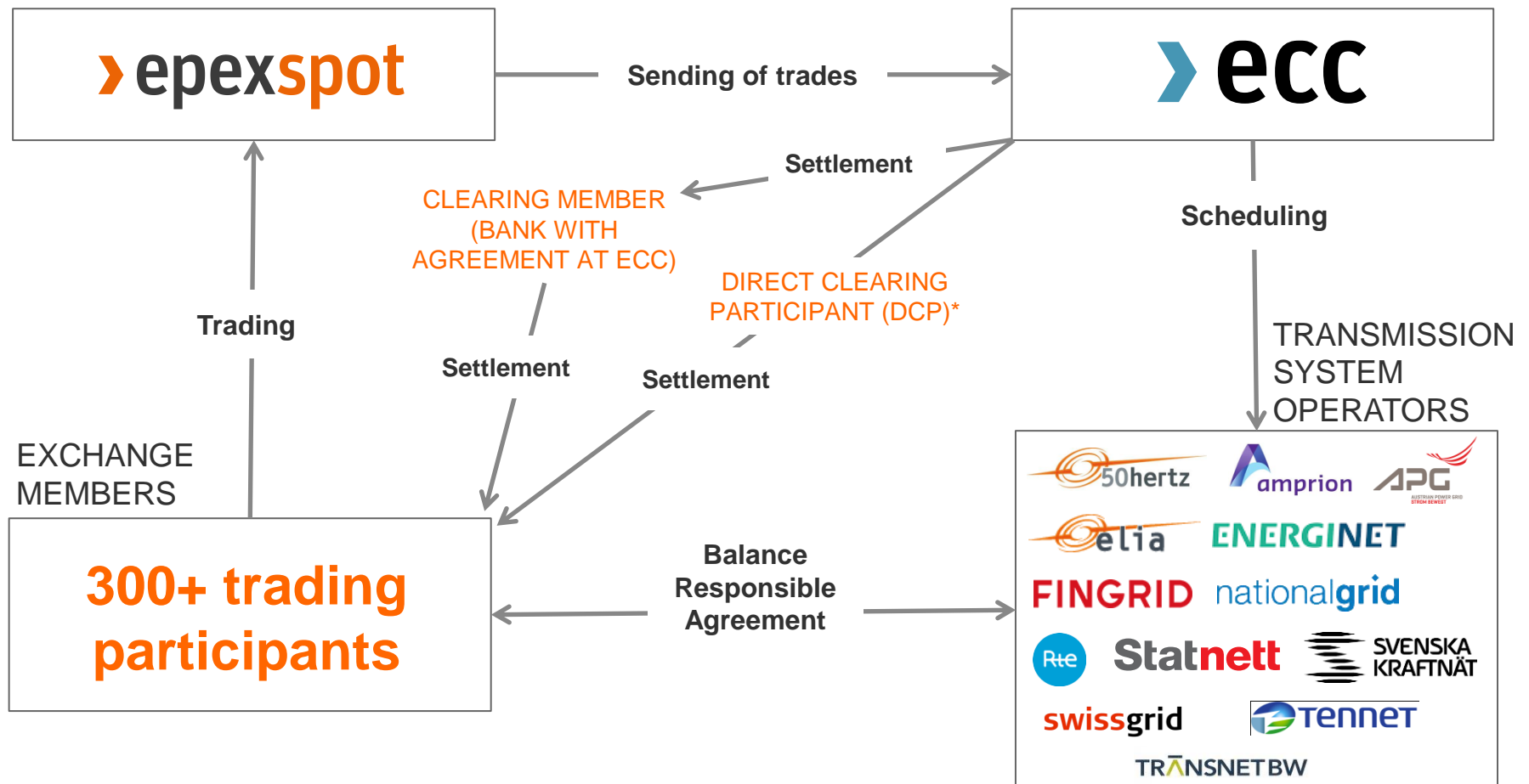
Privacy settings

Data filtering per Market Area eases the browsing – History of data available to EPEX SPOT members

Clearing Services

Trading-Clearing set-up at EPEX-ECC

The overall setup between EPEX SPOT, ECC, the Clearing Member, the Exchange Member and the TSO is summarized below.



*Currently, available for DK, FI & SE and will be available in Norway in coming months.

Clearing solutions at ECC – 2 clearing models

		Non-Clearing Member (NCM)	Direct Clearing Participant (DCP)*
General differentiation		The NCM is in a business relationship with a Clearing Member. ECC's risk exposure resulting from an NCM's trading activities is covered through margins (Post-Trade Approach).	A DCP has direct access to ECC without a Clearing Member. ECC's risk exposure resulting from a DCP's trading activities is covered through collateralized pre-trade limits (Pre-Trade Approach).
Markets		All markets – Spot & Derivatives	Spot only
Bank		Clearing Member (CM) Guarantee & payment function	Settlement Bank (SB) Payment function only, no guarantee
Risk Management	Margining	Yes, IMSM (Initial Margin Spot Market) and CESM (Current Exposure Spot Market)	No, neither IMSM nor CESM
	Limit	Voluntary, set by CM (or NCM)	Mandatory, set by ECC
	Prefunding	No collateralization towards ECC but potentially towards CM	Collateralization of pre-trade limit in advance with collateral accepted by ECC
	Collateral	Collected by CM, CM accepted collateral	Deposited by DCP, only ECC-accepted collateral
	Default Fund Contribution	CM obligation	DCP obligation

**Currently, available for DK, FI & SE and will be available in Norway in coming months.*

Clearing: Safe and cost-efficient solutions

Supported by a **European Clearing House**

Strong protection against counterparty risks

- Default-fund and five lines of defense
- EMIR-certified clearing model

Fast and safe financial settlement

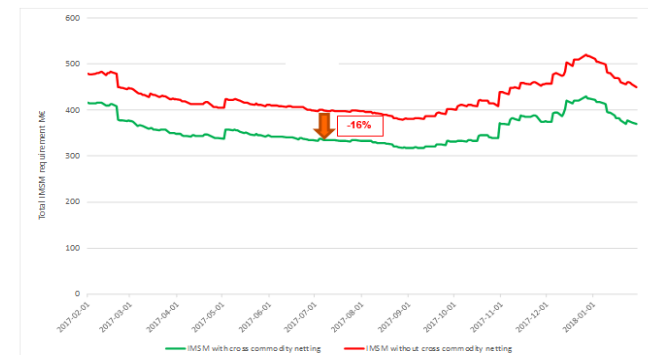
- D+1 settlement cycle for both Day-Ahead and Intraday markets

Cross-margining savings

- Cross-margining accross markets and products cleared by ECC (e.g. gas & power)



Assessment over all EPEX SPOT members, including those which are not EEX Gas members and therefore cannot benefit from any cross-commodity netting:



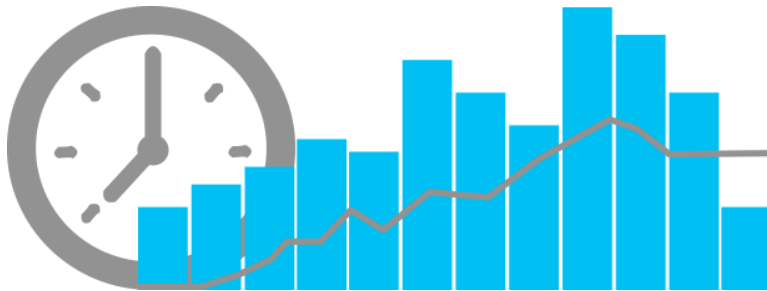
Transparency Services

Transparency services for fair and efficient markets

Expert Market Surveillance

to build **trust & confidence**

- Highest Market Surveillance standards
- Millions of orders screened everyday
- Expertise on new algo trading practices
- Trusted network of European authorities



Market Data service

increasing **transparency & efficiency**

- Complete range of market data and indices available for free on markets you are trading via the FTP server
- Unique real-time data access service available
- Certified REMIT reporting services

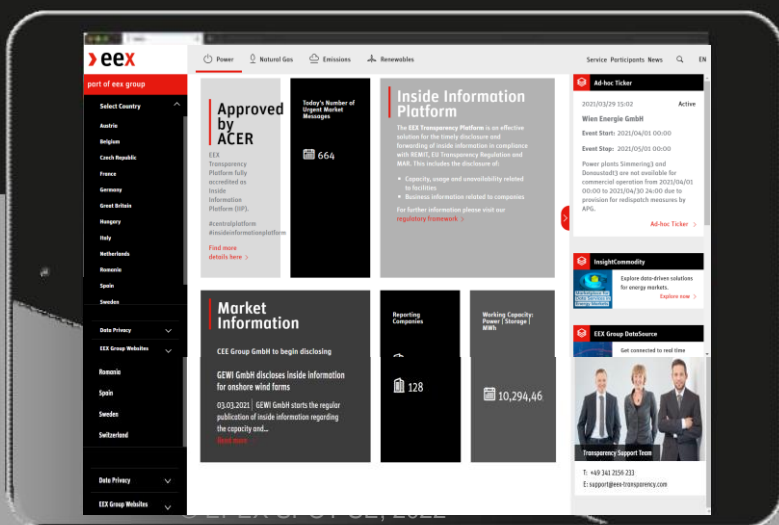
Disclosing Inside Information under REMIT

The EEX Transparency Platform is the central inside information platform (IIP) which fulfills disclosure obligations as required by REMIT. Since 1st January 2021, market participants active on the power and natural gas markets must report their inside information via an IIP to achieve effective disclosure.



Our Services

- Effective and timely data publication on a central IIP
- Automatic data forwarding to ACER and where additionally needed to NRAs and ENTSO-E
- Report efficiently and easily with the EEX Inside Information Messenger (web-based) or connect directly to our web service API



> 200 Market Participants from 12 countries report data to the platform.

Your Advantages

- Successfully assessed as Inside Information Platform by ACER
- Far-reaching disclosure on a central platform
- EEX is an approved Registered Reporting Mechanism (RRM) by ACER & a third-party provider for ENTSO-E
- Secure and certificate-based solutions
- Continuous development to fulfill regulatory requirements Technical validation & quality checks ensure highest data quality

#centralplatform

Transparency Services

- ☎ +49 341 2156233
- ✉ support@eex-transparency.com
- 🔗 eex-transparency.com
- 🔗 remit-reporting.com/en

Future Developments

What is coming next for the Nordics?

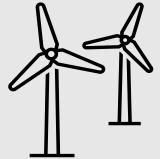
GOs



First pan-European **Guarantees of Origin (GOs) Spot Market** to be launched in 2022.

Read the press release [here](#). Webinar slides for Members available [here](#). Contact us at sales@epexspot.com if you are interested.

15'MTU



EPEX SPOT fully supports the implementation of **15 min products for both SDAC & SIDC in the Nordics** to facilitate further integration of renewables. Target launch in 2023.

- › **We are always working to innovate and partner with our clients to meet their needs.** Get in touch to discuss market design topics and product requests or join our annual design workshop (members only) – date to be announced.

Sign up to trade!

Exclusive Trial Offer: View only ComTrader access + auction market data on SFTP for 3 months

- Get a peak of how our performant Intraday trading system runs with a view on the real-time trading screen
- Access the historical market data in the Nordics to assess your business case



See for yourself the functionalities and benefits of trading at EPEX SPOT!

How to get started in the Nordics?

BRP REGISTRATION

- ❑ Register a Balance Responsible Party with the respective TSO in each market that you wish to be active on. Also, register an Imbalance Settlement Agreement if needed.

VAT

- ❑ Apply for European Community VAT ID if not yet registered. For NON-EU based members, proof of VAT registration in your country will be required in TP Forms submitted to ECC Link: [EU VAT info](#)

REMIT

- ❑ Register with the National Regulatory Authority (NRA) in the Member State in which you are established or resident and obtain an ACER code (Not applicable if you wish to trade only in Norway or GB) Click [here](#) for more information

LOCAL TRADING LICENSE (NO only)

- ❑ Register with the Norwegian water resources and energy directorate (NVE) if you would like to trade in Norway Norway: [here](#)

Get admitted at EPEX SPOT & ECC

EPEX SPOT ADMISSION

- ❑ Contact us to find the membership type & setup that suits your needs

The EPEX trading systems provide you with the opportunity to have multiple technical market access options via APIs & ISVs. A standard technical conformance test will be required for brand new API applications.
- ❑ Fill in the “Know your customer” questionnaire
- ❑ Submit admission documents to EPEX SPOT & ECC
- ❑ Pass the trader exam

CLEARING

- ❑ Find a clearing bank or sign a Settlement Bank Agreement with ECC Visit: [ECC's website](#)

Any questions? Simply contact sales@epexspot.com and a key account manager will guide you through the process!

If you are already an EPEX SPOT Member, simply send the relevant TAA & TP forms to EPEX & ECC
– See our [Nordics Member Readiness Checklist](#)

Energi Danmark®

“ 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.



Danske
Commodities

“ 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.



“ 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.

Any questions? Let's discuss further!



Svetlana Grace | Senior Key Account Manager

Tel +33 1 73 03 62 47

Mobile +33 6 71 95 56 64

s.grace@epexspot.com

Connect on [LinkedIn](#)

www.epexspot.com

“Let's discuss the offer that would be most suitable for you.”

Thank you for your attention!

Sales

sales@epexspot.com

Tel +33 1 73 03 62 62

Market Data Sales

marketdata.sales@epexspot.com

Tel +33 1 73 03 61 63

E-Learning

elearning@epexspot.com

Tel +33 1 73 03 62 62

EPEX SPOT Paris

5 boulevard Montmartre
75002 Paris
France
Tel +33 1 73 03 96 00

www.epexspot.com

EPEX SPOT London

11 Westferry Circus
Canary Wharf
London E14 4HE
United Kingdom

EPEX SPOT Amsterdam

Quarter Plaza
Transformatorweg 90
1014 AK Amsterdam
The Netherlands

EPEX SPOT Brussels

Treesquare, Square de
Meeus 5-6
1000 Bruxelles
Belgium

EPEX SPOT Berlin

Regus at The Chancellor
Office
Rahel-Hirsch-Straße 10
10557 Berlin
Germany

EPEX SPOT Bern

Marktgasse 20
3011 Bern
Switzerland

EPEX SPOT Wien

Mayerhofgasse 1/19
1040 Wien
Austria