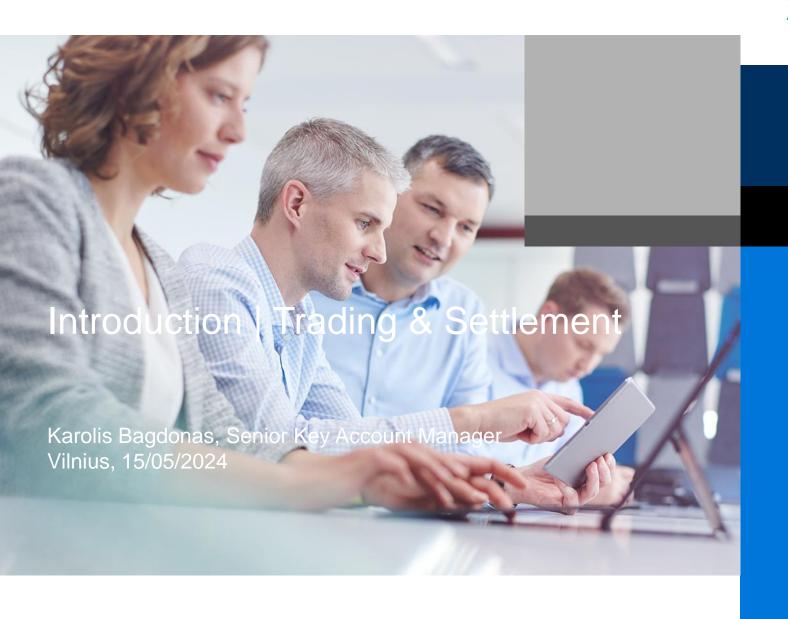
# > getbaltic



Building markets together – EEX and GET Baltic are committed to further developing the Baltic-Finnish gas markets of the future

EEX will launch the GET Baltic markets Q1 2025 on same platform as EEX –strengthening the ties to the well-established pan-European gas markets

One trading infrastructure, one onboarding process, one set of rules for all major European gas markets with access to a robust and liquid marketplace

Enhanced services for participants active in Baltic-Finnish markets though clearing with ECC

Integrated state-of-the-art reporting and data services for energy markets across Europe



© GET BALTIC, 2024

# Together GET Baltic and EEX will offer state-of-theart products and services



New and modern trading infrastructure



New long-term products (futures) and indices

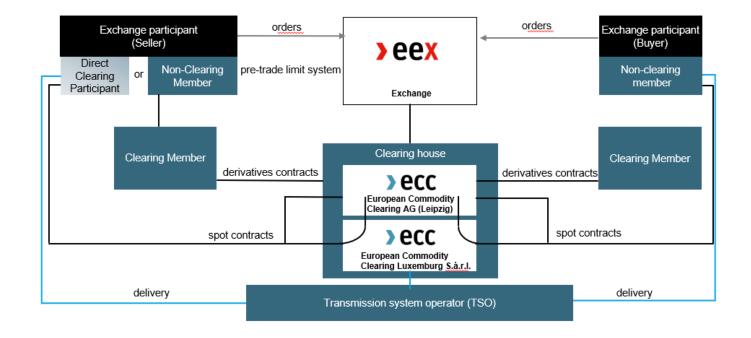


New clearing house services

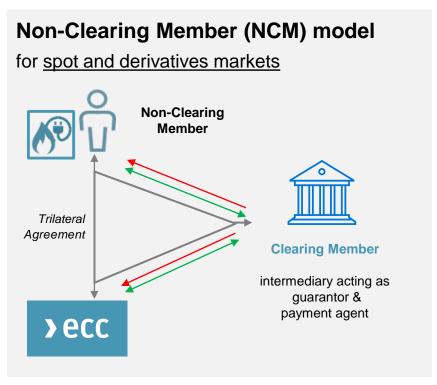


New trading opportunities

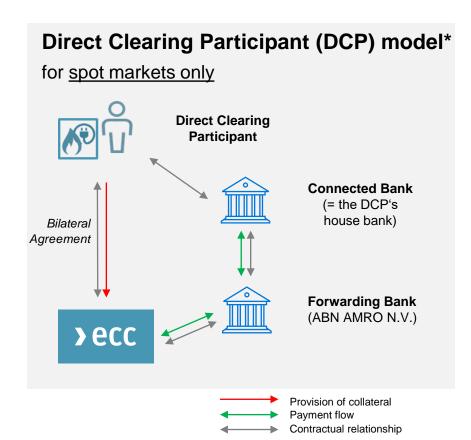
# EEX and ECC operating as separate entities ensures the security of all transactions



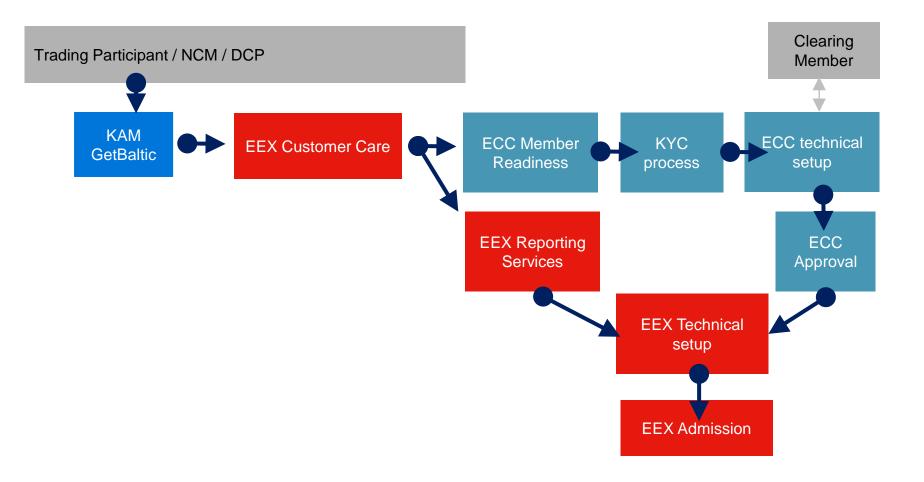
### ECC membership options for current GET Baltic customers



<sup>\*</sup> DCP launch for natural gas markets is subject to regulatory approval



### Overview of the admission process



# Overview of the admission package (NCM)

#### Common forms

- KYC Common
- KYC Appendix
- Supporting documents

#### **ECC forms**

- Application as Non-Clearing Member
- NCM Agreement
- VAT Details
- Gas specific forms:
- TP\_EEX\_05a form
- TP\_EEX\_05b form
- TP\_EEX\_05c form

#### **EEX forms**

- Application for Admission as Exchange participant
- Order of technical access
- Trader application

#### Reporting forms

- REMIT Agreement
- MIFID/MIFIR Agreement
- EMIR Agreement

# Overview of the admission package (DCP)

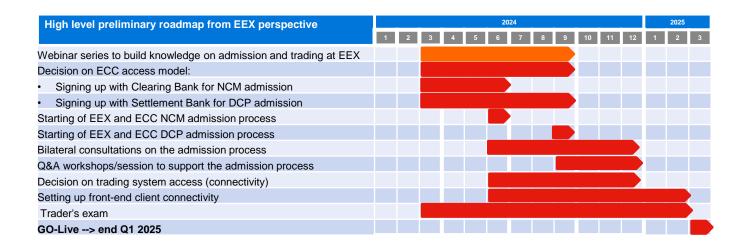
#### **EEX forms and Reporting agreements**

- the same requirements as for NCMs

#### KYC and ECC forms

will be sent at a later stage

# GET Baltic's markets integration into pan-European gas markets at EEX



GET Baltic, EEX and ECC specialists will guide you through overall process

© GET BALTIC, 2024



# Thank you





Overview of EEX Gas markets offering

#### **Physical Spot Market**

Hourly, Within-Day, Day-Ahead, Weekend and Individual Days, TSO balancing products

#### **Physical Futures Market (exchange and OTC)**

Month, Quarter, Season, Calendar, TTF Options

#### **Cash-settled Futures (EGSI Futures)**

Daily, Weekend, Weekly, Month, Quarter, Season, Calendar

#### **Spreads**

Location spreads between different market areas Time spreads (Futures only)

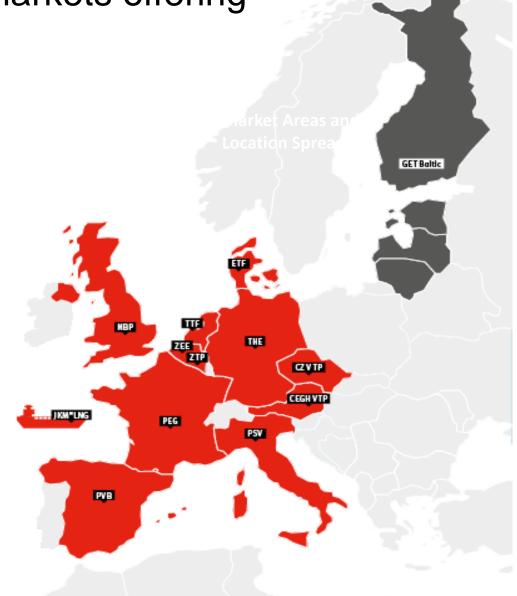
#### **LNG Offer**

Cash-settled JKM Futures + TTF in \$

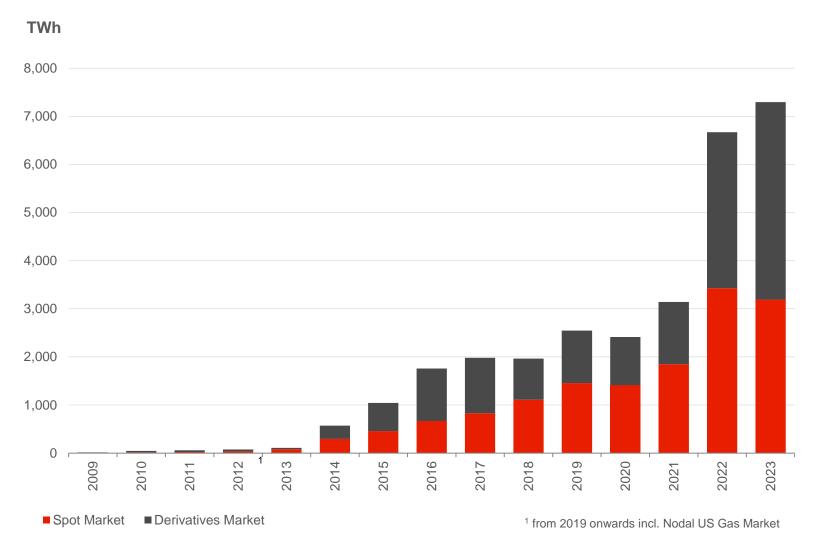
#### **Trading Hours**

Spot Products: 24/7

Futures: 8:00am - 6:00pm CET



# Trading Volumes on the European Gas Spot and Futures Markets are growing



### EEX Group Gas volumes & Market shares

	March 2024
EEX Gas Spot Market	260,446,388
CEGH VTP Gas Spot	16,335,199
CZ VTP Gas Spot	1,455,631
ETF Gas Spot	2,216,562
NBP Gas Spot	16,548,254
PEG Gas Spot	29,900,997
PVB Gas Spot	1,920
THE Gas Spot	60,485,713
TTF Gas Spot	110,394,389
ZTP Gas Spot	23,107,723

286,123,737
15,014,116
339,551
16,002
28,841,766
1,997,400
5,466,440
43,676,924
190,351,058
420,480

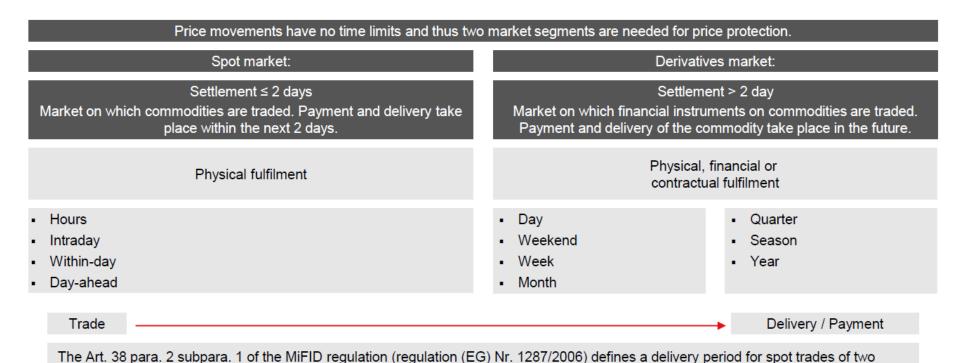
640,401,306

- Spot volumes are growing even in a context of mild temperature
- High market share in spot confirmed: TTF ~97%, PEG ~96%, THE ~96%
- Futures markets are growing and well balanced:
  - o between traditional utilities and new financials/algo players
  - between Screen and Trade registration with the following repartition:
     53% STP and 47% screen trading
  - between outrights and spread trading: 54% locational spread, 39% on outright and 6% on Time spread
- Make THE Great initiative: our new Market Makers are ramping up their activity: 2 more since beginning of April. New tender might be organized later in the year. THE Hub announced liquidity provision scheme in April and will incentivize the supporters
- **EGSI Futures: volumes tending up**, with almost 400 GWh traded (record month 2024), including 2 new active members
- Volume discounts for EEX Gas Futures as part of EEX price list (from 2024)

EEX GAS TOTAL

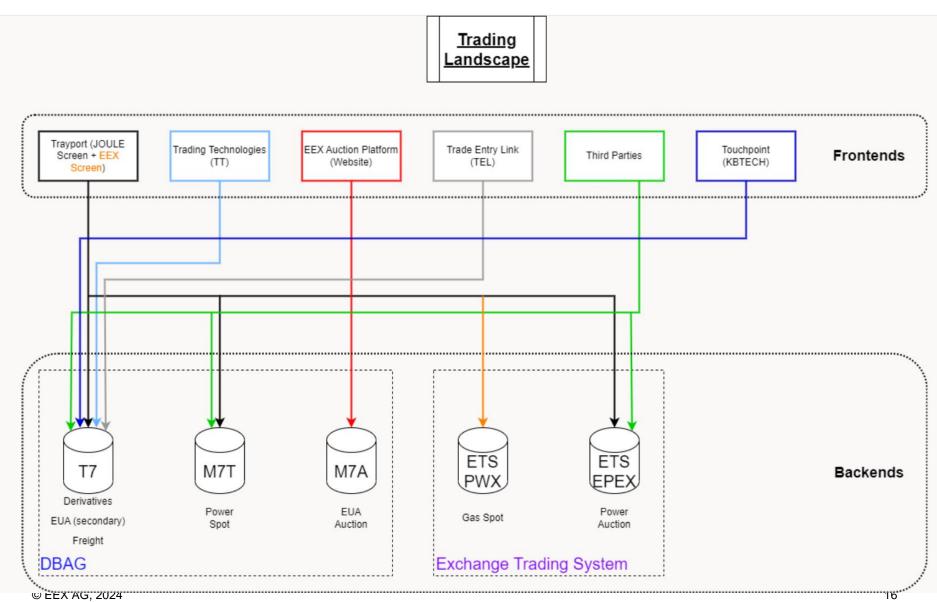
# EEX Trading - Segmentation of the market

days or the standard delivery time which is regularly accepted by the market.



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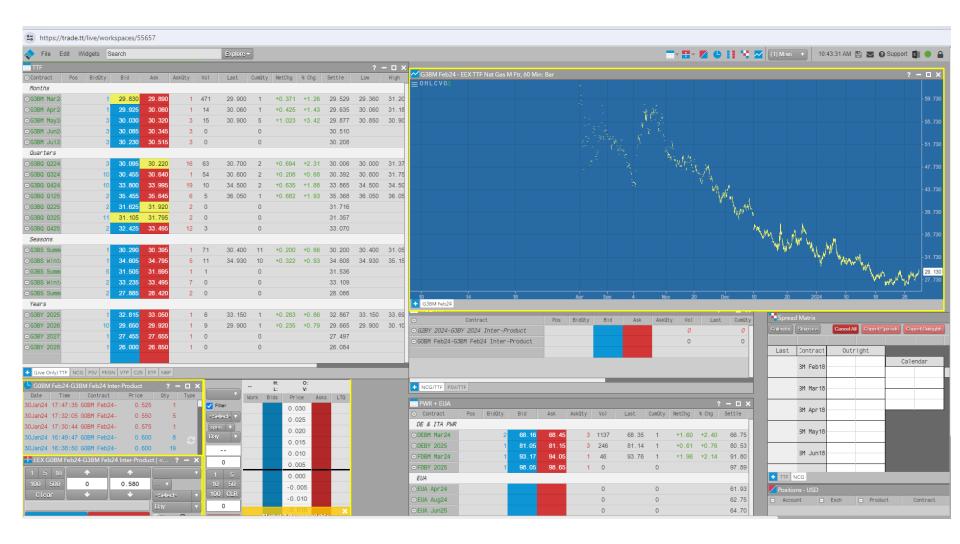
# **EEX Trading Landscape**



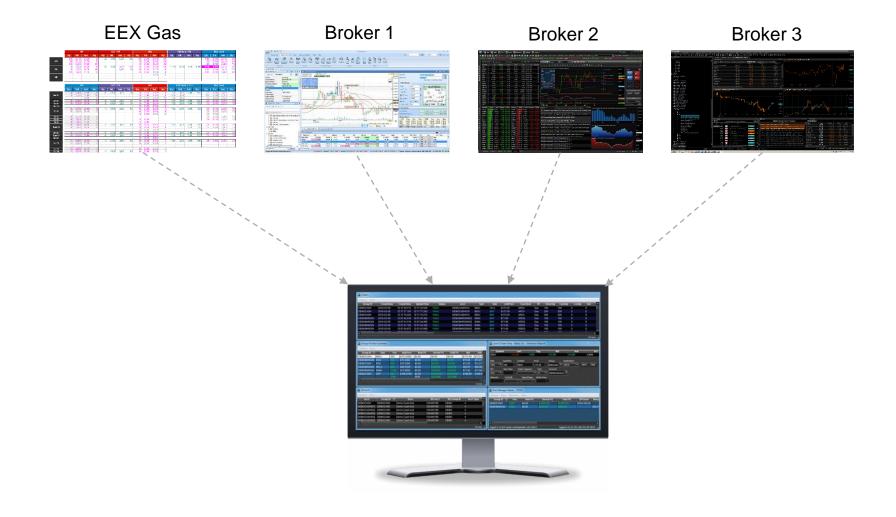
# **EEX Gas Trading Frontends**

	Trayport Joule	Joule Direct for EEX	TT for EEX
Gas Spot	X	X	
Gas Futures	X	X	X
Power Futures, emissions	X	X	X
Can integrate other venues	X		
Extra costs for clients apply (license etc.)	X		

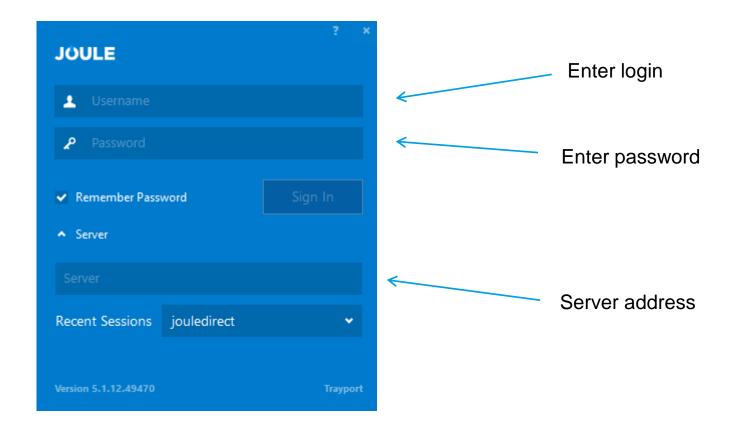
# TT (Trading Technologies) Screen - Futures only



### Trayport Joule: the front end is part of an integrated platform

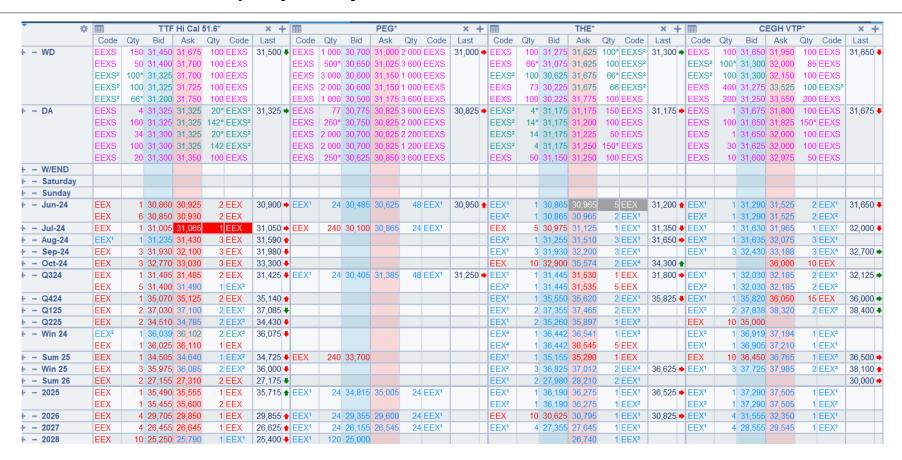


### Connection to EEX Joule Direct



Once connected, your workbook (or MarketSheet) will automatically load

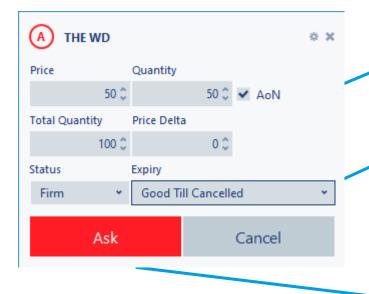
### Order book display: Layout



Red order are tradable, pink orders are not tradable (permissions at user level) Blue/Green orders are implied prices. They are generated from 2 (or more) orders which are coming from other markets.

### Order entry





#### **All or None**

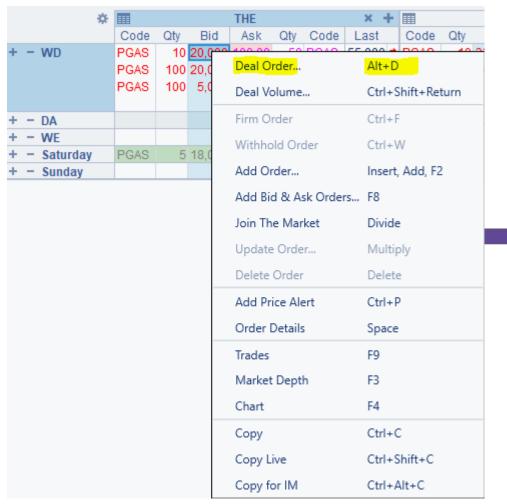
### Expiry types:

- Good Till Cancelled
- Good till Date
- Good for Day

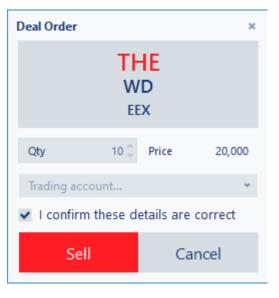
#### Firm/Withheld

Validate your order

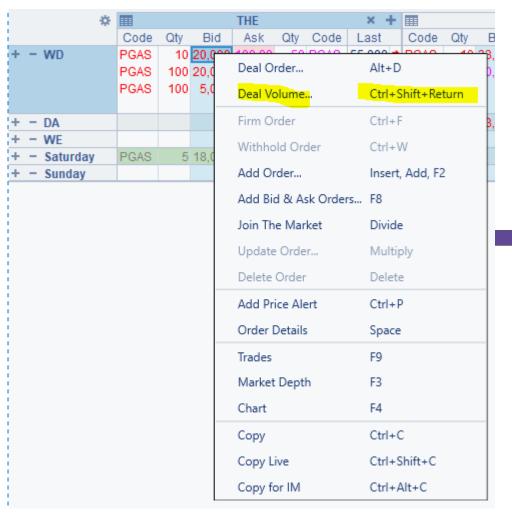
### **Deal Order**



Deal Order enables to hit the best limit, with the option of partially or totally lifting the volume as this order is not an All or None



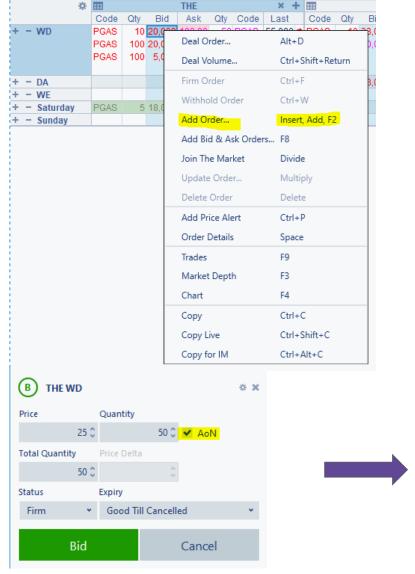
### Deal Volume with Regular Order



Deal quantity allows to either deal part of the first best limit or to go into the market depth



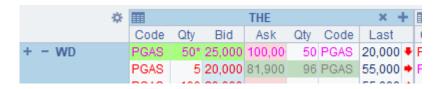
### Add Order (or Deal Volume) with "All or None" Order



All or None (AoN) orders allow only the entire volume to be traded. To enter an AoN order, ensure that the AoN check box is selected before adding the order

When dealing quantity, if the best limit is All or None, you can either go over it or include it, depending on the quantity you want to trade

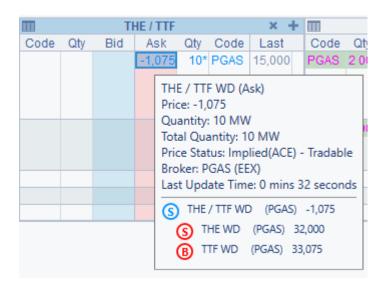
AoN orders are displayed with an \* to show trading participants that they will have to lift the total volume. When using the Deal Volume functionality, traders need to have in mind that if their volume is inferior to the AoN order, it will bypass it and match the next order



Here, the AoN order is displayed in green

© EEX AG, 2024

### Spread Display



A sell order on a spread means that you want to sell the first hub and buy the second

Spread orders can be either outright or implied. Here, it is an implied price, constituted of a THE WD sell order and a TTF WD buy order. Matching this order will result in you buying 10MW of THE WD at 32 and selling 10MW of TTF WD at 33,075.

The **Investigate Price** functionality displays detailed information on a specific order in the order book. For implied prices, this function is used to identify the prices constituting a specific implied price.

### Outright and implied Spreads



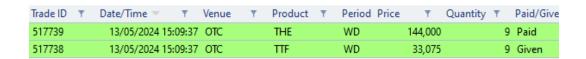
In light blue, it is an implied spread untradable

In pink, it is an outright spread untradable

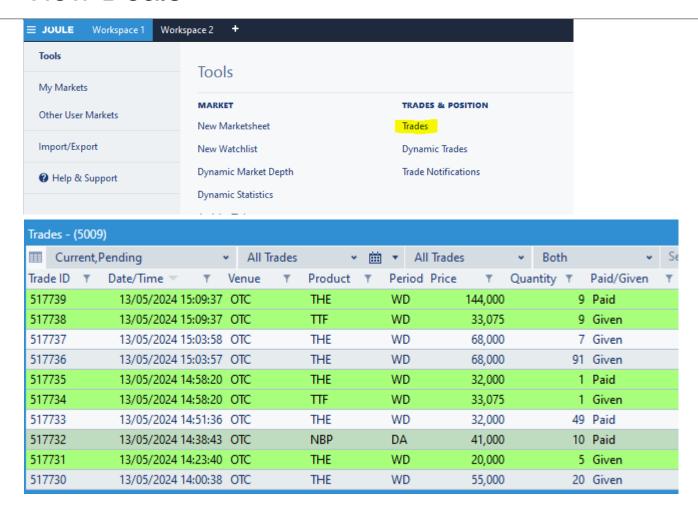
In pink + highlighted in green, it is an outright spread belonging to the trader

In blue, those are tradable implied orders that come from outright orders in the respective markets (THE and TTF).

Lifting one of those will result in 2 trades EEX Gas breaks it into two legs (corresponding to the slave and master hubs), according to reference prices calculated in real-time by EEX Gas.



### **View Deals**



This window allows you to see all market trades. In green, your trades are displayed, while in light green, the trades belongs to your company.

White trades are from other members.

### Trade alert

- A trade alert is sent by e-mail, 5 minutes after a deal is done, to registred contacts from the same company.
- The recipients of the trade alert e-mail can be :
  - The trader who made the deal (trade alert for me)
  - Any other person from the same company who requested it (trade alert for my company). In that case, this person will recieve all the trades from all the company's traders.

Contact in Customer Center	Email address	role « FO »	Role « Trade Alert For Me »	Role « Trade Alert of my Company »	Impact
Contact1 (trader)	user1@comp1	Х	Х		Receives only own trades
Contact2 (trader)	user2@comp1	Х	х	Х	Receives both own and other trades
Contact3(trader)	user3@comp1	Х	Х		Receives only own trades
Contact4 (dispatching)	dispatch@comp1			Х	Recieves all trades from the company

# Trade cancellation spot vs futures

### **Spot**

 Trade cancellation fee =1,500€ (applied per cancelled transaction)

• The recall has to be declared within 10 minutes after the trade has been concluded by calling the GAS 24/7 hotline: +33 1 7303 9624

#### **Futures**

- € 1,000 (Month Contracts)
- € 1,500 (Quarter Contracts)
- € 2,000 (Season Contracts)
- € 2,500 (Year Contracts)
- The recall has to be declared within 5 minutes after the trade has been concluded by calling the GAS 24/7 hotline: +33 1 7303 9624
- EEX MO will proceed with a price committee to assess whether or not the trade is off-market.

# Algo Trading

- EEX and Trayport is committed to support third-party access to the EEX Gas Spot market for both "Order Entry" (Write) as well as full "Market data + market depth" (read) access via the Trayport interface/API.
- There are terms and conditions, however the connectivity options are open to anyone who is compliant and wishes to access the EEX Gas SPOT market via Trayport.
- EEX Gas SPOT platform offers two types of API connections allowing for Read/Write access via Trayport:
  - Direct Connection via own inhouse software
  - Connection via a vendor (Trayport Autotrader, Volue etc.)

# Lacima Risk Analytics & Margin Calculator simplifies margining management and offers saving potential

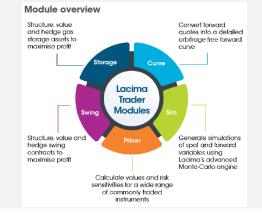


Lacima is a multi-award winning specialist provider of software and advisory services dedicated to trading, valuation, optimisation and risk management for global energy and commodities markets.

Risk Analytics

Software and advisory services dedicated to trading, valuation, optimisation and risk management for global energy and commodities markets

© EEX Group, 2024



**Lacima Analytics>Margin** is an easy-to-use solution to estimate margin requirements for current and potential portfolios providing greater confidence to hedge positions and to manage liquidity risks.

- SPAN file (market data, Intercommodity spreads)
- Client position information

Margin Calculation

- "What if" Position information
- "What if" Price changes

Margin Estimation



Estimate margin requirements



Analyse and understand key drivers

analyse whole portfolio's or sub portfolios to better understand the key drivers of margin requirements



Easily upload SPAN® & client position files



Analyse crossmargining opportunities

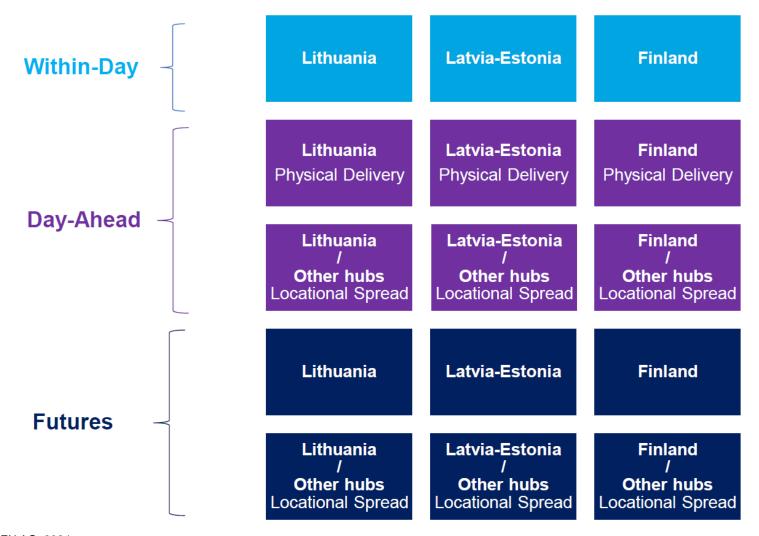
margin impacts from transferring portfolios of deals across from alternative exchanges



Obtain comprehensive reports

easy to use reporting, displaying margin outputs for positions and simulated price and position changes

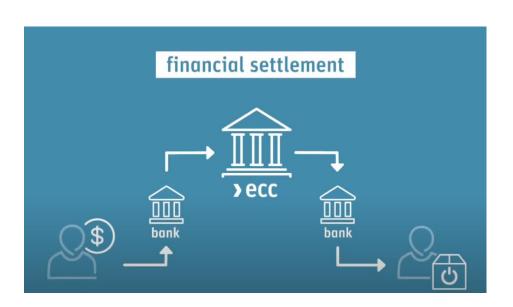
# Trading Offer of EEX for Baltic-Finnish markets

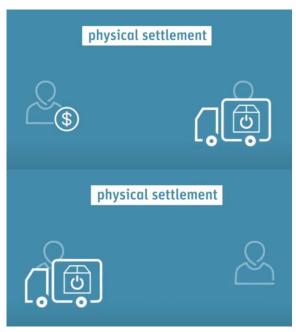




# Clearing house ECC and its functions







### **ECC** Website

- ECC's website contains complete information regarding the clearing and settlement processes:
  - Physical settlement
  - Financial settlement
  - Invoicing
  - Margining
- The holiday calendar, downloads, user guides and manuals for technical applications and processes as well as significant documents (e.g. ECC Clearing Conditions, contract details) can be obtained.

Login to the ECC Member Area

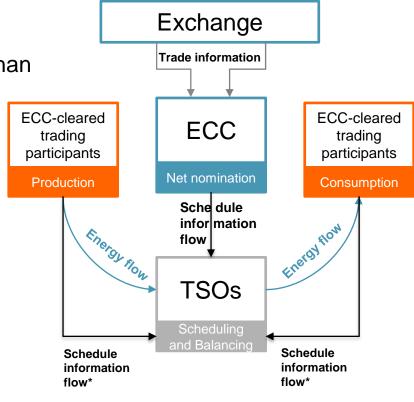


### What is Physical Settlement?

Physical settlement is all about nomination. ECC sends net "nominations" to the relevant (power or gas) grid operator to initiate the physical delivery. ECC is connected to more than 30 Transmission System Operators (TSOs).

#### **Nomination Process:**

- Trade information is gathered from the order book trading on exchange or Trade Registration deals.
- ECC aggregates nominations per market participant (MP) and delivery period (hour, 30min, 15min) for the respective TSO into one nomination schedule.
- TSO confirms the correct matching of nominated schedules by both the MP and ECC as its counterpart. If a mismatch occurs the TSO sends an alarm message.

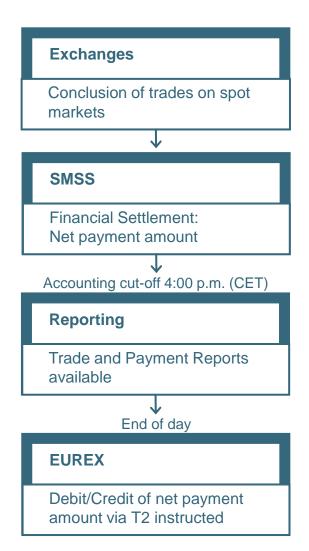


<sup>\*</sup>in some markets only

#### **ECC Financial Settlement Overview**

- As a Central Counterparty, ECC guarantees financial fulfilment and carries out cash clearing for all transactions concluded on ECC's Partner Exchanges (EEX, EPEX Spot, HUPX, Seepex etc.)
- ECC co-operates with international banks as Clearing Members,
   Settlement Banks, Multi-Currency Payment Banks and Correspondent
   Banks. For Euro settlement, the transfer is done via the robust and reliable T2 infrastructure of ECB.
- ECC has been approved as a designated payment system according to Article 10 of the Settlement Finality Directive 98/26/EC. Payments in foreign currencies are settled with a selection of Correspondent Banks.
- ECC has a harmonised invoicing and fee settlement process across all of its products, markets and asset classes.

#### **ECC Financial Settlement**



- ECC provides fee settlement for its Partner Exchanges. ECC collects the fees on behalf of the exchanges from the participants via their Clearing or Settlement Bank.
- Financial settlement of EUR takes place on every ECC business day (Monday to Friday, except T2 holidays).
- The trades are netted out into one net payment amount per Clearing Member or Settlement Bank respectively.
- ECC established a daily booking cut at 16:00:00 CET. All trades concluded before the booking cut are financially settled on the next ECC business day. Trades concluded after 4:00 p.m. are settled on the ECC business day after tomorrow (T+2).
- Payments in EUR are processed at around 8 a.m. CET before market opening on T2 operating days
- All trades concluded on the spot markets of our Partner Exchanges are imported into ECC's clearing system SMSS promptly after trading with the help of the existing ECC member ID (e.g. ABCEX).

#### **ECC Member Area**

- The ECC Member Area is your gateway to ECC's services.
- It provides access to ECC's clearing system (SMSS) for your daily business operations:
  - Online view transactions
  - Subscription to reports
  - Maintenance of contact data
  - Access to internal delivery accounts for emissions
  - Limit maintenance





- The ECC Member Area is free of charge, to get access the application form "T10 User Setup" is needed.
- Details on the functions of the ECC Member Area are provided in the respective User Guide available on ECC's website.

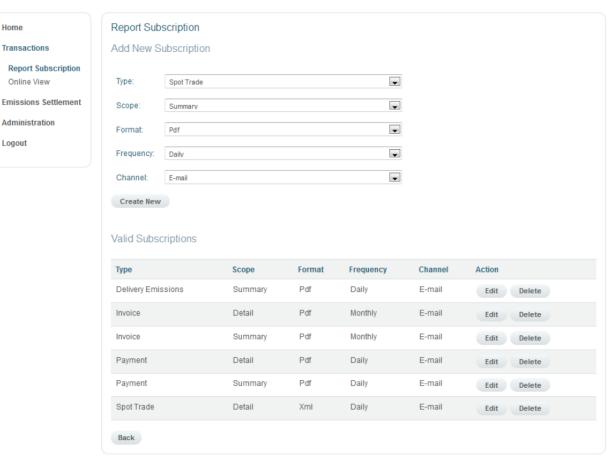
https://www.ecc.de/en/member-section/ecc-member-area

## ECC Member Area – report subscription

- Reports on transactions, payments, deliveries, invoices or margins can be subscribed to under the menu item Report Subscription.
- Reports can be provided via email or FTP server

Home

Logout



Reports are offered as **Detail Reports** or as **Summary** Reports.

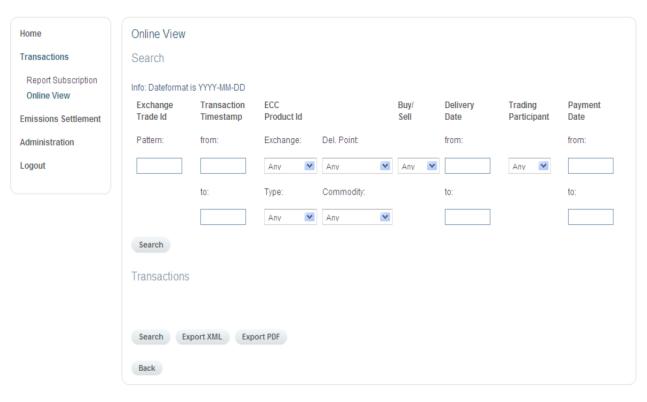
Formats: **PDF XML** 

### **ECC** Reports

- Delivery Reports provide an overview of all physically settled trades to the member for a complete specific delivery day with delivery periods from 00:00 to 24:00 (position are netted).
- Trade Reports submitted on T provide an overview of all executed trades of a member from T-1 16:00:01 to T 16:00:00. Trades with execution after 16:00:00 CE(S) on T will be published in the Trade Report on T+1.
- Payment Reports provide an overview of all trades to be financially settled on B+1. All trades from 16:00:01 B-1 to 16:00:00 on B are considered in the Payment on B+1.
- Margin Reports contain Initial Margin Spot Market (IMSM).
- Collateral Reports contain collateral transactions and balances of bank guarantees used by an NCM as collateral and collaterals of DCPs.
- Invoice Reports contain all Spot and Derivatives Market transactions as well as delivery instructions from expired futures and options positions which have fallen due per invoice.

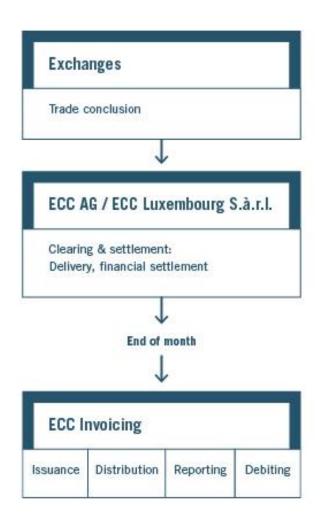
#### **ECC Member Area Online View**

- Spot Market transactions and delivery instructions from expired futures can be retrieved online via the menu item **Online View**.
- Concluded future transactions can be retrieved on the next ECC business day as well.



### **ECC Clearing Process**

#### Invoicing 1|3



- ECC only invoices fees for the provision of clearing and settlement services.
- ECC creates monthly invoices at the latest until the 5<sup>th</sup> business day of the following month.
- ECC issues invoices for Clearing Fees and commodity amounts.
- The invoices are sent to the customers by e-mail via download link and/or by FTP access
- Reports (Invoice and Payment Reports) can be subscribed via the ECC Member Area
- Fees are debited on the 10th ECC business day of the following month via the T2 or commercial bank account of the participant's clearing bank or the settlement account of the DCP

# ECC Clearing Process Invoicing 2|3

ECC issues 2 major groups of invoices of clearing fees: "Delivery" and "Trading"

ECC Lux invoices (deliveries)	ECC AG invoices (trading)
Contains all purchased and sold commodities of products with physical deliveries:  → spot transactions → intraday transactions → future expiries.	Contains all derivatives market products or financially fulfilled contracts.  The invoice is divided into purchases and sales.
Invoice is based on the delivery day of the concerned transactions (= delivery month).	Invoice is based on the timestamp of the concluded transactions (= trading month).
It comprises the clearing fees for the previous month if applicable including VAT.	It comprises the clearing fees for the previous month if applicable including VAT.

#### **ECC Clearing Process** Invoicing 3|3



ecc

European Commodity Clearing Luxembourg S.à.r.l. The Square, 42, Avenue JF Kennedy, L-1855 Luxembourg Company Street City Country

Clearing & Settlement Tel.: +49 (0) 341/24680-444 Fax: +49 (0) 341/24680-409 E-Mail: clearing@ecc.de

VAT ID LU23418829

2024-04-30

European Commodity Clearing AG Augustusplatz 9, 04109 Leipzig Company Street City

Clearing & Settlement Tel.: +49 (0) 341/24680-444 Fax: +49 (0) 341/24680-409 E-Mail: clearing@ecc.de

VAT ID DE248156757

2024-04-30

#### Invoice No. ABCEX L2400001 for the period of service from 2024-04-01 to 2024-04-30

Tax ID: n/a

VAT ID: ABC1234567 Currency of Invoice: EUR

#### Invoice No. ABCEX E2400001 for the period of service from 2024-04-01 to 2024-04-30

Tax ID: VAT ID:

Country

ABC1234567

n/a

Currency of Invoice: EUR

#### **Invoice Summary**

Commodity	Fees	Net	Domestic VAT 0.00 %	Gross
351,173,731.62	14,800.86	351,188,532.48	0.00	351,188,532.48
1,053.65	4.97	1,058.62	0.00	1,058.62
				351,189,591.10
	351,173,731.62	351,173,731.62 14,800.86	351,173,731.62 14,800.86 351,188,532.48	Commodity Fees Net 0.00 % 351,173,731.82 14,800.88 351,188,532.48 0.00

The total fee amount of 14,805.83 € will be debited on Wed, May 15, 2024 via your Clearing-Member(s) or Settlement Bank. The commodity and the respective VAT have already been settled via your Clearing Member(s) or Settlement Bank.

#### Attachments:

- Invoice Details
- Remarks

The attachments are an integrated part of this invoice.

The Invoice Report Detail is an integrated part of this invoice/self-bill invoice.

#### Invoice Summary

Invoice Item	Fees	Domestic VAT 0.00 %	Gross
Purchases	93,750.30	0.00	93,750.30
Sales	89,816.61	0.00	89,816.61
Total Gross	•		183 566 91

The total fee amount of 183,566.91 € will be debited on Wed, May 15, 2024 via your Clearing-Member(s). The commodity and the respective VAT have already been settled via your Clearing Member(s).

#### Attachments:

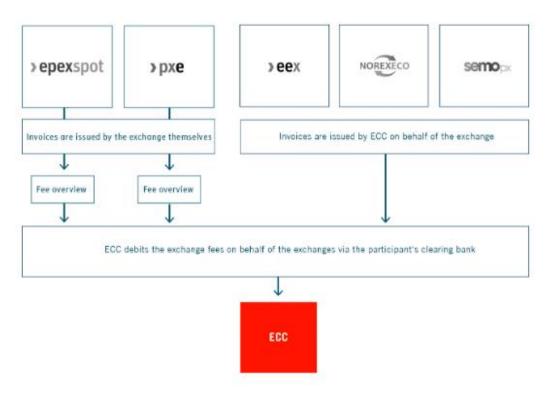
- Invoice Details
- Remarks

The attachments are an integrated part of this invoice.

The Invoice Report Detail is an integrated part of this invoice/self-bill invoice.

### **ECC Clearing Process**

#### Fee Settlement



ECC provides fee settlement for its Partner Exchanges. This means that ECC collects the fees on behalf of exchanges from the participants via their Clearing or Settlement Bank and the invoices are issued by the Partner Exchanges themselves.

In addition, the invoicing service is also available. In this case, ECC generates the invoice for each exchange trading participant on behalf and for the account of the exchange. This service includes the collection of the fees and dispatching of the invoices.

# Overview of EEX Invoicing

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Annual fees			X			X			Х			Х
Technical infrastructure			X			X			X			Х
Infoproducts + Infoproducts Vendors	Х	X	X	Χ	X	Х	X	X	Х	X	Х	X
MiFID II / MiFIR Reporting			X			X			X			Х
REMIT Reporting Services			X			Х			X			X
Reporting Services REMIT Fee						Х						
Market Maker	Х	X	X	X	Х	X	Χ	X	Х	Х	X	Х

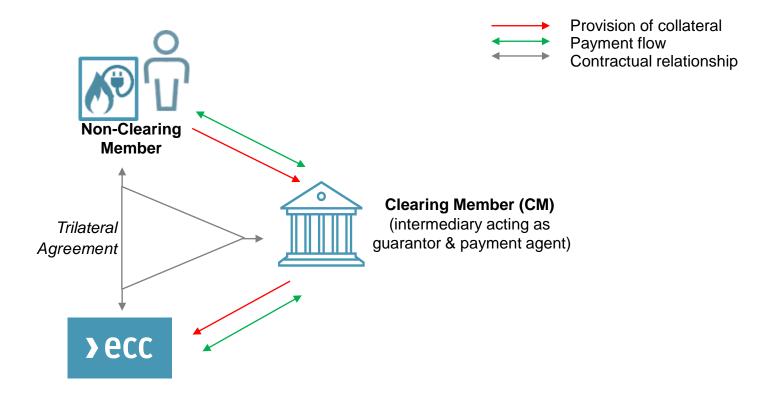


# NCM & DCP Trading Limits and Collateral Requirements

European Commodity Clearing AG- Get Baltic 15 May 2024

Presenter: Florian Dorgerloh

#### Spot Market Access Models Non-Clearing Member (NCM)



- Non-Clearing Member requires involvement of an intermediary a Clearing Member.
- A Clearing Member is liable towards ECC for the obligations arising from trading activities of its NCM.

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#### A CM is liable towards ECC for its NCM

- To mitigate risk a CM can set pre-trading limits on spot market
- Limit documentation: ECC Limit Manual
- From the trade history ECC calculates Collateral requirement (Margin) towards CM
- CM forwards margin requirements to the NCM, that is part of the CM-NCM relationship

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# Spot Margin Model Introduction

Risk = Current Exposure + Potential Future Exposure

Spot
Market

Current Exposure Spot Market
(CESM)

Initial Margin Spot Market
(IMSM)

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### **Spot Margin Model**

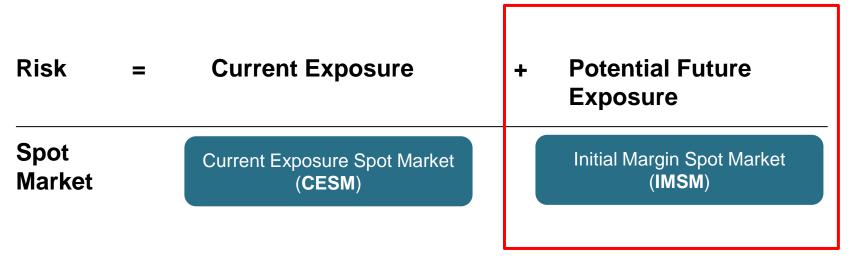


- The CESM is calculated in 10-minute intervals.
- The calculated amounts are floored at zero on the margin account level
- At the end of the trading day (18:00) the CESM is booked out except for storable commodities (e.g. EUA certificates).

The CESM is reduced during the next settlement run (8:00 - next business day)

Internal © ECC AG 2022

# **Spot Margin Model**



- Spot markets trading is possible 24/7, meaning exposures can be generated when no intraday margin call can be executed (nighttime/weekends)
- IMSM is designed to cover the expected exposure between the last booking cut and the expected default of a trading participant

IMSM is calculated once a day at 15:00

Internal © ECC AG 2022

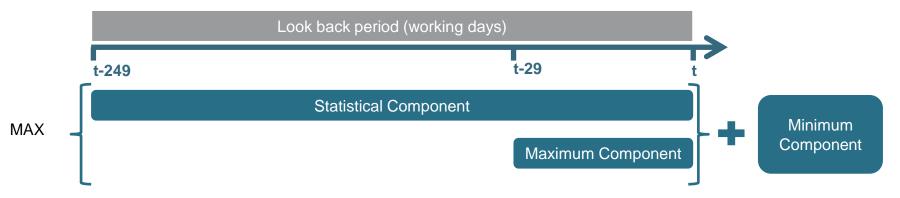
# Spot Margin Model Exposure Definition



- The IMSM is based on the exposure per payment day. The exposure is calculated from the previous business day booking cut-off time (16:00 CET) till expected suspension time in case of default (12:00 CET next business day).
- The for the current business day cut-off time is 14:00 same day.

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# Spot Margin Model IMSM Calculation Overview



The IMSM calculation consists of 3 components:

- Statistical component is the mean + alpha \* standard deviation of the exposures time series during the look back period of one year
- The maximum component is the  $\beta$  \* maximum exposure of the last 30 working days
- Minimum component (currently 50.000 EUR)

The IMSM is the maximum of the statistical and maximum component plus the minimum component.

The model parameters ( $\alpha$ ,  $\beta$ , Minimum component) of the IMSM model is monitored by daily back testing and is validated yearly.

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# Spot Margin Model Other Considerations

#### Holiday Adjustment

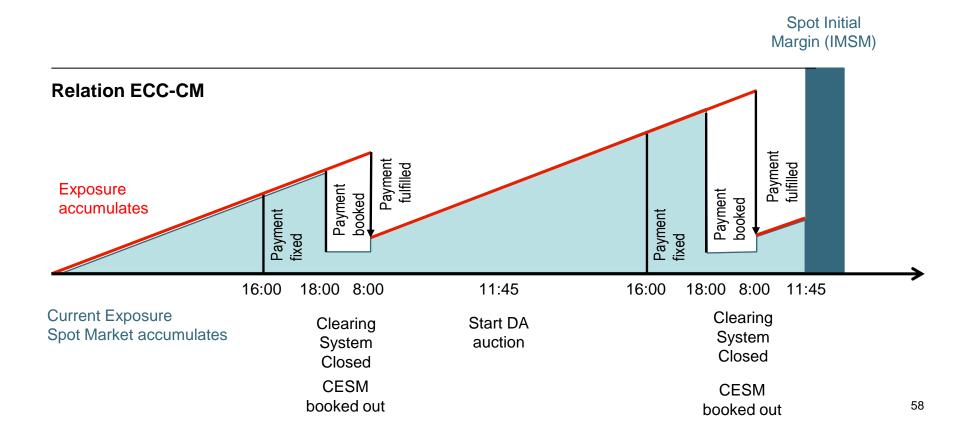
The IMSM covers weekends however there are constellations e.g. Easter and Christmas with more than two additional consecutive nonbusiness days. In such cases ECC increases the IMSM according to the following scaling:

Number of extra non- settlement days	Hours that need to be covered	Scaling Factor $(f(t))$
1	92 + 1 * 24 = 116	$1.3 \ (\approx \frac{116}{92})$
2	92 + 2 * 24 = 140	$1.6 \ (\approx 140/_{92})$

Thursday 16:00 until Monday 12:00 = 92 hours

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## **Spot Margin Model**



# Spot Margin Useful links

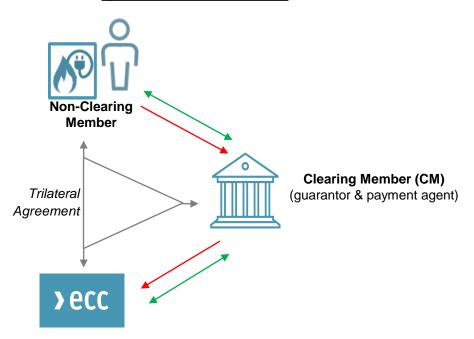
- Margin explanation with examples: <a href="ECC\_Guide\_To\_Margining">ECC\_Guide\_To\_Margining</a>
- Detailed Margin explanation: <u>ECC Spot Market Margining</u>
- Tools to recalculate and simulate IMSM: <u>Margining (ecc.de)</u>

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#### Spot Market Access Models NCM vs DCP

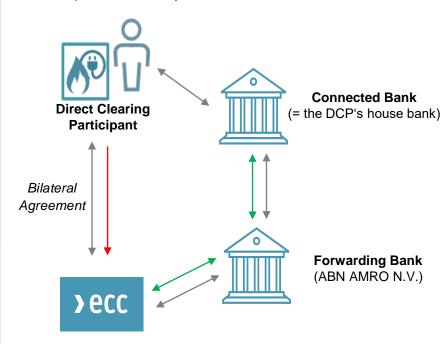
#### Non-Clearing Member (NCM) model

for spot and derivatives markets



#### **Direct Clearing Participant (DCP) model**

for spot markets only



Provision of collateral Payment flow Contractual relationship

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# DCP Model: smart entry for small to medium size companies to enable trading opportunities on selected spot markets

#### Differences:

- ECC accepts guarantees and cash collateral
- Limit Reset
- Unknown exposure window
- Multiple markets
- Daily payment runs



## Start of the Trading day

1. 16:00 CET: The exposure from the previous day is **unknown** therefore trading limit is 0 or user defined Base Limit

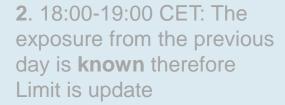
3. Next day 10:00 CET: Successful settlement, **exposure reduces**, therefore Limit is updated 2. 18:00-19:00 CET: The exposure from the previous day is **known** therefore Limit is update

# Start of the Trading day

1. 16:00 CET: The exposure from the previous day is **unknown** therefore trading limit is 0 or user defined Base Limit

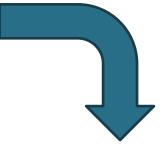
Base Limit should be defined as low as possible, but as high as needed. It has an impact on the overall trading limit.

3. Next day 10:00 CET: Successful settlement, **exposure reduces**, therefore Limit is updated



## 1. Limit Update



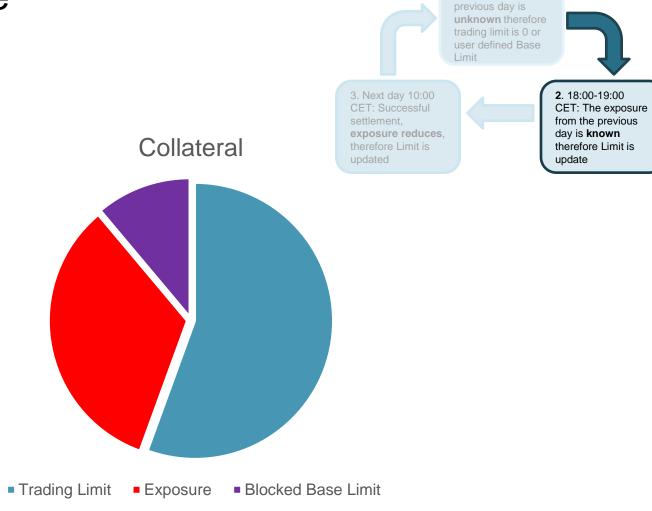


3. Next day 10:00 CET: Successful settlement, **exposure reduces**, therefore Limit is updated 2. 18:00-19:00 CET: The exposure from the previous day is **known** therefore Limit is update

1. 16:00 CET: The

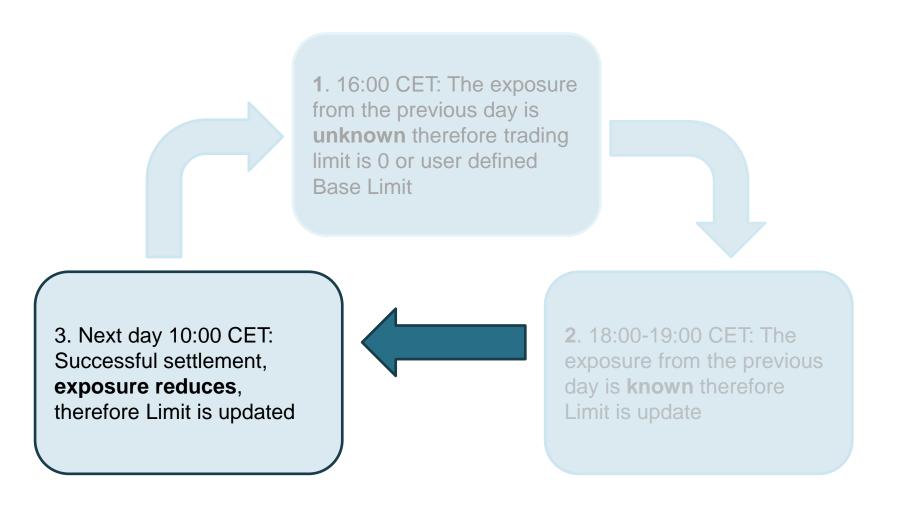
exposure from the

## 1. Limit Update



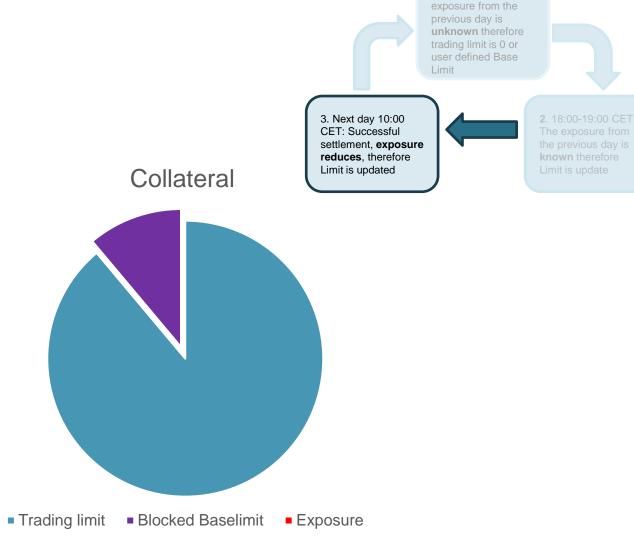
Collateral - Exposure - Blocked Base Limit for next days = Trading Limit

### 2. Limit Update



1. 16:00 CET: The

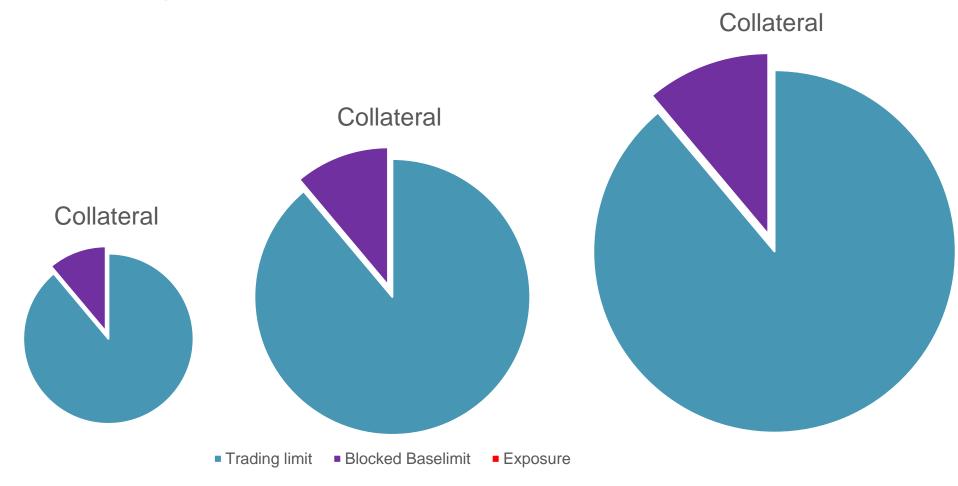
## 2. Limit Update



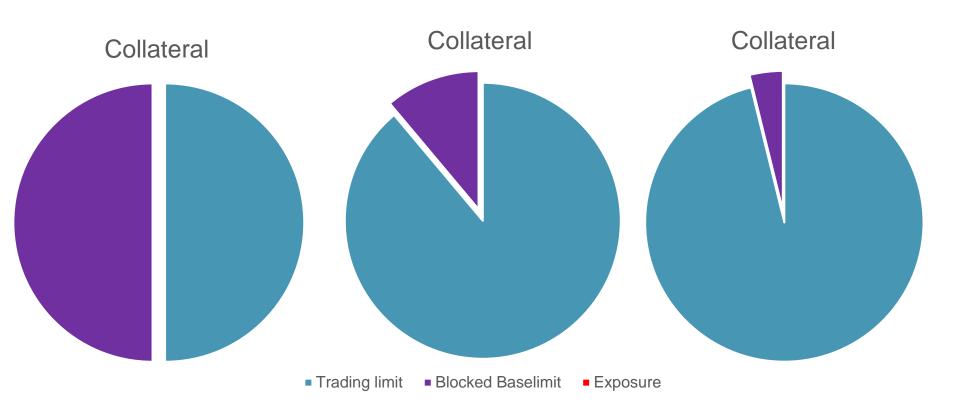
Collateral - Exposure - Blocked Base Limit for next days = Trading Limit

# User setting to impact the Trading Limit

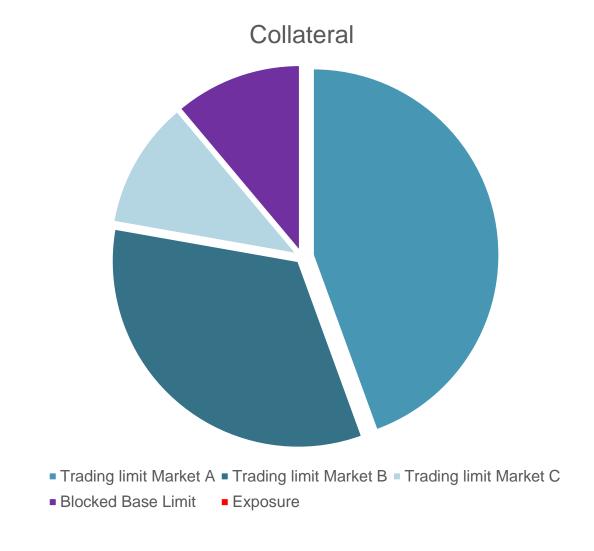
## 1. Change in Collateral



# User setting to impact the Trading Limit 2. Change in Base limit



# User setting to impact the Trading Limit 3. The Trading Limit can be split over multiple markets



## DCP Useful links

- Introduction DCP presentation: <u>DCP Introduction</u>
- Collateral and Limit presentation: Collateral and Limits
- Forms found here: <u>Admission Forms (ecc.de)</u>

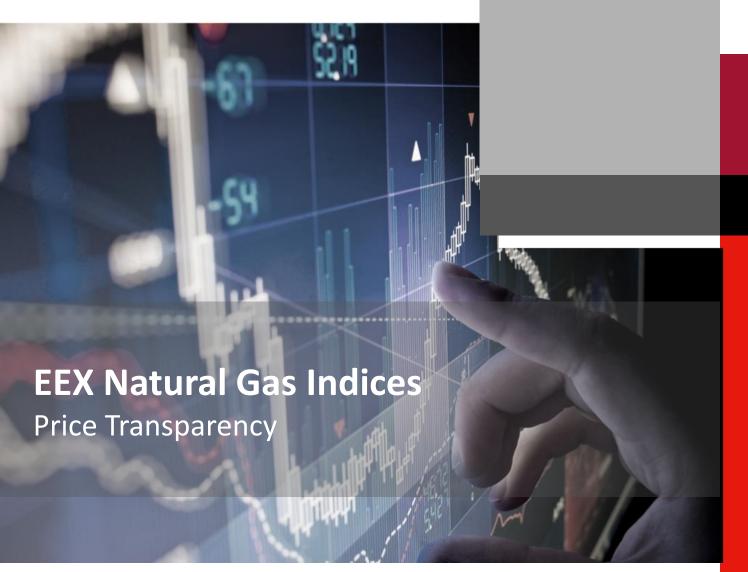
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Thank you for your attention!

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- > EEX Natural Gas Indices today
- > EEX offer for Baltic-Finnish
  Markets
- > Differences between GET Baltic's indices and EEX indices



"Reference prices established by EEX increase transparency in the energy markets and strengthen the participants' confidence in the trading process."

Peter Reitz, CEO of EEX AG

## EEX provides transparency so that market participants can make informed decisons



#### **Price Transparency**

- Market Price Development
- Accessible to all stakeholders (Business, TSOs, Market Area Managers, Regulators, Media, Politic)
- Free of charge (+added value services)



#### **Commercial Use**

- Use in B2B gas contracts (slidingprice clauses)
- Accurate pricing by replacing substitute reference prices (e.g. Oil, Coal) for accurate pricing
- Basis for balancing prices for TSOs/Market Area Managers



**Hedging & Risk Management** 

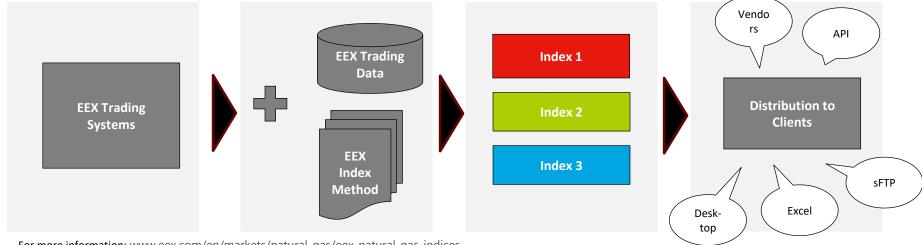
- EEX offers trading in derivative contracts settled against indices (e.g. EGSI)
- Those allow for Risk Management
- Price Hedging Strategies and Trade at Settlement

### Trades and orders become Market Data, Indices, and Benchmarks

EEX AG calculates and publishes a range of indices for our European natural gas markets. Each index is adapted to specialized needs. The common denominator being that they are objective, based on transactional market data, and have a clearly documented methodology.

With our natural gas indices, we provide reliable and traceable price references. Our methodologies are rule-based and published in full to give complete transparency of the calculation process.

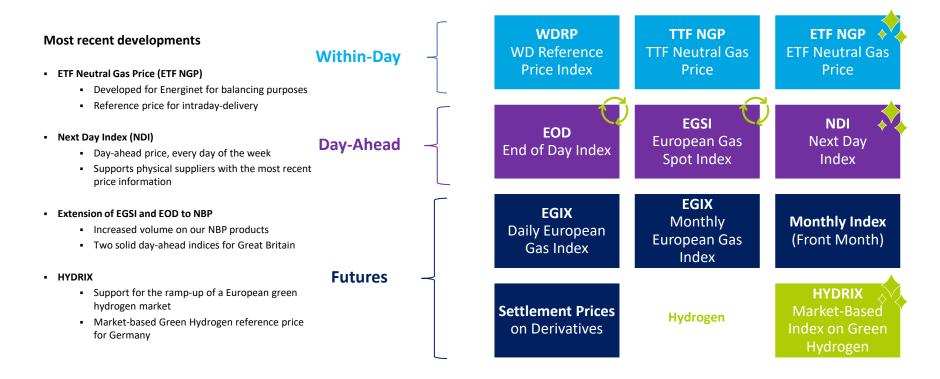
EEX aims at increasing transparency on the markets through providing indices that track price development. This includes indices that fulfil the highest standards defined within the EU benchmark regulation



For more information: www.eex.com/en/markets/natural-gas/eex-natural-gas-indices

## EEX provides objective indices to support decision making amongst energy market participants

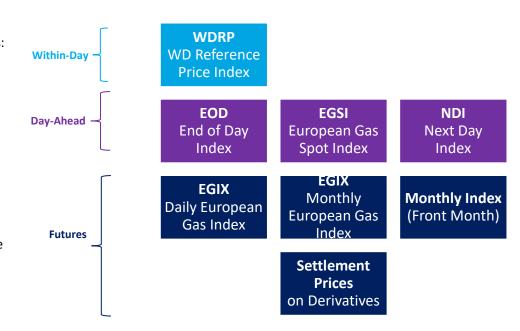
Reliable price references are the basis of a well functioning market. With our natural gas indices, we provide reliable and traceable price references. Our methodologies are rule-based and published in full to give complete transparency of the calculation process.



## EEX calculates our trademark indices for the Baltic-Finnish markets from the launch of contracts on the markets

EEX AG will provide its indices upon launch of the Baltic-Finnish contract at EEX. These will be launched together with the trading products

- Upon launch of the trading products at EEX these indices will be calculated for the three market areas:
  - EEX WDRP
  - EEX EOD Index
  - EEX EGSI
  - EEX NDI
  - EEX Daily EGIX
  - EEX Monthly EGIX
  - EEX Monthly Index
- The indices currently calculated by GET Baltic will be provided by GET Baltic until the trading product migration

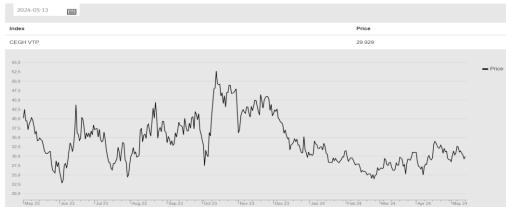


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## EEX Within-Day Reference Price (WDRP)



- The **EEX WDRP** is the volume-weighted average price of all trades in the within-day contract between 8:00 and 18:00 CE(S)T for the same day.
- Published every calendar day on <u>EEX's website</u>
- Possible alternative to GET Baltic's BGSI but considers only within-day transactions

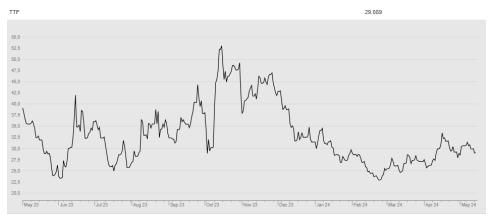


EEX WDRP for the market area of CEGH VTP (13.05.2024)

### **EEX European Gas Spot Index (EGSI)**



- The EEX Day EGSI® is the volume-weighted average price of trades in the day-ahead and weekend contracts executed between 8:00 and 18:00 CE(S)T on the exchange trading day before the start of the delivery period of the contract. The EEX Weekend, Week, and Month EGSI are the arithmetic mean of Day EGSI for the relevant delivery period
- Published every business day on <u>EEX's website</u>
- Possible alternative to BGSI-DA daily and montly
- On a regular business day the EGSI TTF is based on roughly 10,000 trades

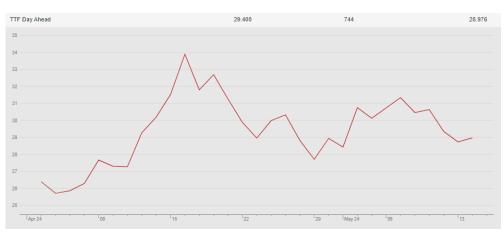


**EEX EGSI** for the market area of TTF (14.05.2024)

### EEX End of Day Index (EOD Index)



- The **EEX EOD** price is primarily based on concluded trades and the EEX orderbook situation from 17:15 to 17:30 on Exchange Days. Only trades and orders that fulfil specific parameters are considered
- Published every business day on <u>EEX's website</u>
- On a regular business day the EOD TTF is based on thousands of trades and many more orders



EEX End of Day Index for TTF (14.05.2024)

### EEX Next Day Index (NDI)

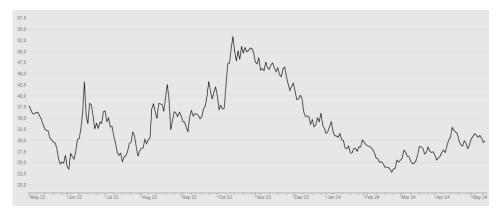


- The **EEX NDI** is the volume-weighted average price of trades in the day contracts with delivery on the following day executed between 8:00 and 18:00 on the calendar day before the start of the delivery day.
- The NDI is calculated and published on every calendar day, including the weekend, making sure you always have the most recent price reference for next-day delivery. From Tuesday to Friday, the NDI is equal to EGSI. On Friday evening, the NDI is calculated for the delivery day of Saturday based on trades in the Saturday day contract. Likewise, on Sunday evenings, the NDI for the delivery day Monday is calculated based on trades in the Monday day contract.
- Published every calendar day on <u>EEX's website</u>
- Possible alternative to BGSI-DA

### EEX Daily European Gas Index (EGIX®)

EGIX EGIX
Daily European Gas
Index Gas Index

- The **EEX Daily EGIX®** is the volume-weighted average price of all trades in the month futures for a specific market area executed on the EEX Natural Gas Futures Market on that day.
- The **EEX Monthly EGIX**® for a specific market area is the arithmetic mean of the **EEX Daily EGIX**®.
- Published every business day on <u>EEX's website</u>
- Possible alternative to Baltic-Finnish Gas Monthly Index (BGMI)

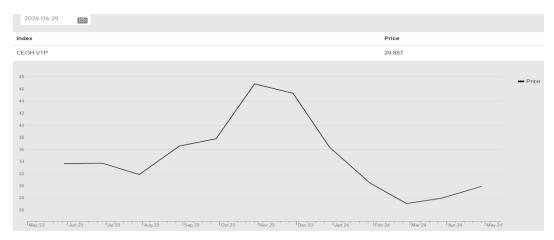


EEX Daily EGIX for TTF (14.05.2024)

## **EEX Monthly Index**



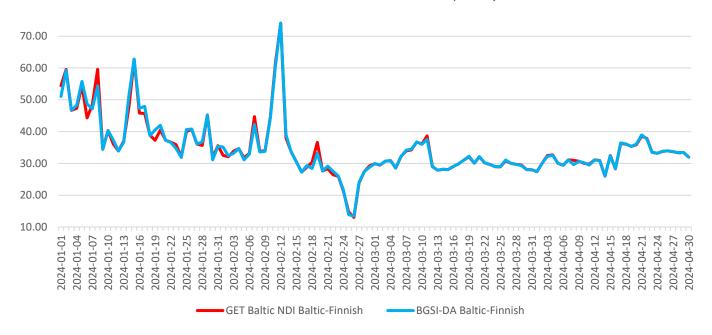
- The <u>EEX Monthly Index</u> is the average of all daily settlement prices for Natural Gas Futures in the front month for a specific market area.
- Published every business day on <u>EEX's website</u>



EEX Monthly Index of the market area CEGH VTP during April '24

## Minor variations in methodology yields only minuscule differences between BGSI-DA and NDI

GET Baltic markets: NDI and BGSI-DA, EUR/MWh



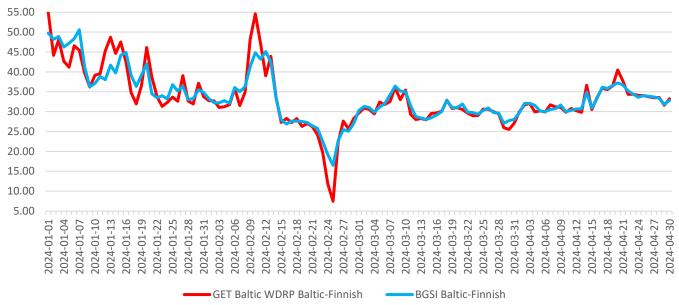
Sample Data: This graph and its values are for illustrative purposes only; they do not constitute an EEX or GET Baltic index

2024-05-16

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## BGSI includes trades on both DA and WD, whereas EEX WDRP considers only WD trades



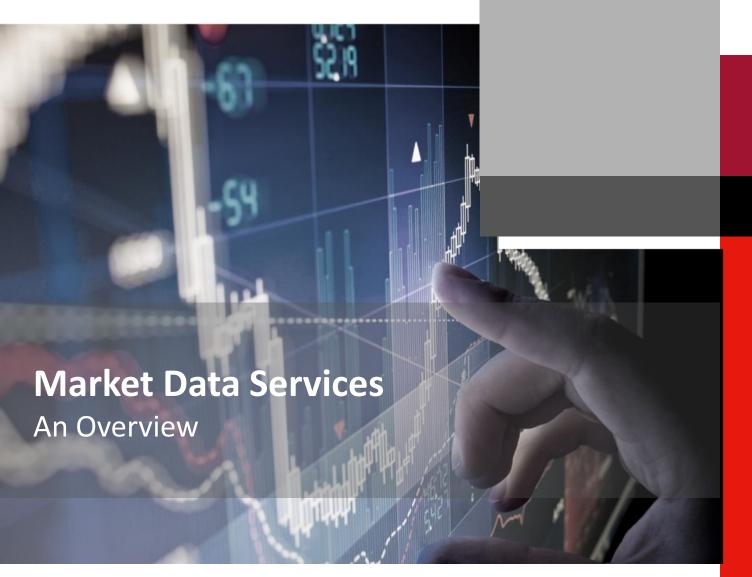


Sample Data: This graph and its values are for illustrative purposes only; they do not constitute an EEX or GET Baltic index

2024-05-16

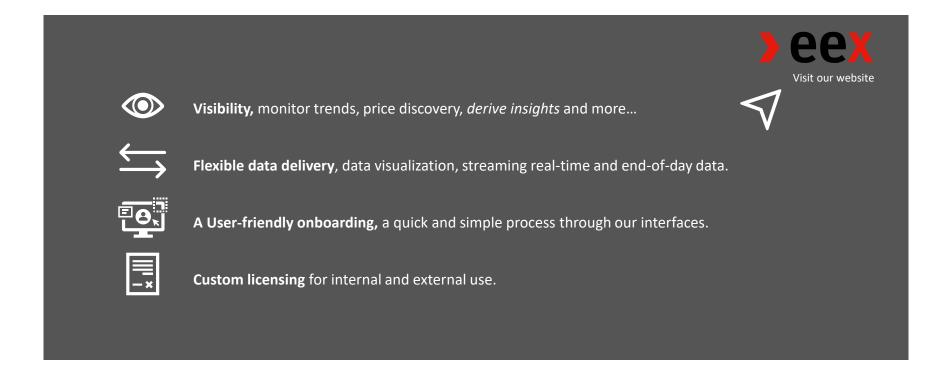
86





- > EEX Group Market Data
  Scope
- > Market Data Solutions
- > Transparency Solutions
- > Licensing

## EEX Group Markets Data Services allow you,



### **EEX Group Solutions for Market and Transparency Data**



#### **API**

> Access real-time raw Data in xml and json



#### New - Cloud Stream API

> Stream real-time Raw Data in json and GPB



#### **Desktop App**

> Real-Time Data for customised quotes, charts, curves, data history



#### **New - A7 Analytics**

> platform for advanced analytics and visualisation



#### **ExcelTool**

> Real-Time Data for customised Excel analytics



#### **Transparency API**

> Online accessible views with customised solutions



#### sFTP Server

> Aggregated and trade-specific end-of-day data files in csv and xlsx



#### **Customised Solutions**

> Online accessible views with customised solutions with real-time and End-of-Day Data

POWER NATURAL GAS ENVIRONMENTALS AGRICULTURALS FREIGHTS HYDROGEN

© EEX AG, 2024 2024-05-16 8:

## EEX DataSource provides data, visualization, and analytics solutions.

> eex DataSource	POWER	NATURAL GAS	ENVIRONMENTALS	ARGICULTURALS	FREIGHT	HYDROGEN
sFTP SERVER	EoD	EoD	EoD	EoD	EoD	EoD
EXCEL TOOL	RT	RT	RT	EoD + RT		RT
DESKTOP APP	RT	RT	RT	RT	RT	RT
API	RT	RT	RT	RT		RT
CLOUD STREAM API		RT				
А7	RT	RT	RT	RT	RT	RT
CUSTOMISED SOLUTIONS	EoD + RT	EoD + RT	EoD + RT	EoD + RT	EoD + RT	EoD + RT

## Transparency API Application Programming Interface

> Experience real-time transparency data access



> Real-time and historical transparency data available in XML and Json for internal or external use

> Includes information on production, storage, and consumption of physical assets, capacity, usage, and availability





> Offers automated or manual access, easy integration, high speed intraday data, end user flexibility, and realtime access to Urgent Market Messages



DWER TRANSPARENCY DATA ENVIRONMENTALS AGRICULTURALS FREIGHTS HYDROGEI

## Licensing



#### **External Usage**

#### **Institutional Usage**



> Dissemination of raw data by a regulatory body within the framework established by regulations.

#### **Scientific Usage**



> Use by academic institution for research and education.

#### **Media Usage**



Complimentary dissemination of raw data on an online platform or a printed publication. The Data must remain not processable.

#### Commercial Usage



> Dissemination of EEX Group DataSource Product Subscribers or Affiliated Companies for internal use. Dissemination of Derived Data is allowed.

#### **Indexation**



> Provision of Providing EEX prices for the purpose of creating financial instruments (e.g. ETC) EEX prices for the purpose of creating financial instruments (e.g. ETC)





**Internal Usage** 

> exclusively for recipient and employees. No external sharing or usage. Derived Data can be created but not disseminated.

2024-05-16



# EEX trader exam online: general information

## EEX trader exam online

EEX website: //www.eex.com/en/trainings/eex-trader-exam

- is a prerequisite for the admission at EEX
- is an online exam, with e-learning material for self-study
- it contains three parts

EEX exam preparation tool (voluntary)

EEX system training (mandatory)

EEX trader exam online (mandatory)

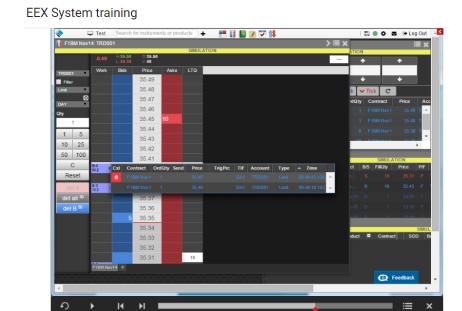
## EEX exam preparation tool (voluntary)

- pdf training material (214 slides)
- e-learning practice tool: sample questions
- e-learning practice tool: exam simulation



## EEX system training (mandatory)

- e-learning training, to understand the usage of EEX trading systems
- Includes three trading systems



## EEX trader exam online (mandatory)

- multiple choice questions
- 30 minutes time
- 75 % required to pass

Orders with the good-till-date (GTD) validity provision are only valid for one day in the order book and are automatically deleted after end of trading.

True Fals

Changing a market order into a limit order can be done at any time.

True False

Which of the following statements regarding an IOC (immediate or cancel) order is correct?

- A. Immediate execution of the order, in full or in part
- B. Unexecuted parts remain active in the market
- C. Unexecuted parts of the order will be deleted immediately
- D. This restriction is not allowed for futures

Which of the following statements regarding stop orders is correct?

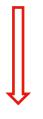
- A. Stop orders are always entered with an activation price limit
- B. Stop orders are generally executed in full immediately after being entered
- C. When the activation price limit is reached, stop orders turn into market orders
- D. Stop orders are allowed for spot and futures contracts



EEX trader exam online: application and process

## application for the admission to the exam





Onboarding package incl. trader exam registration form (pdf document)

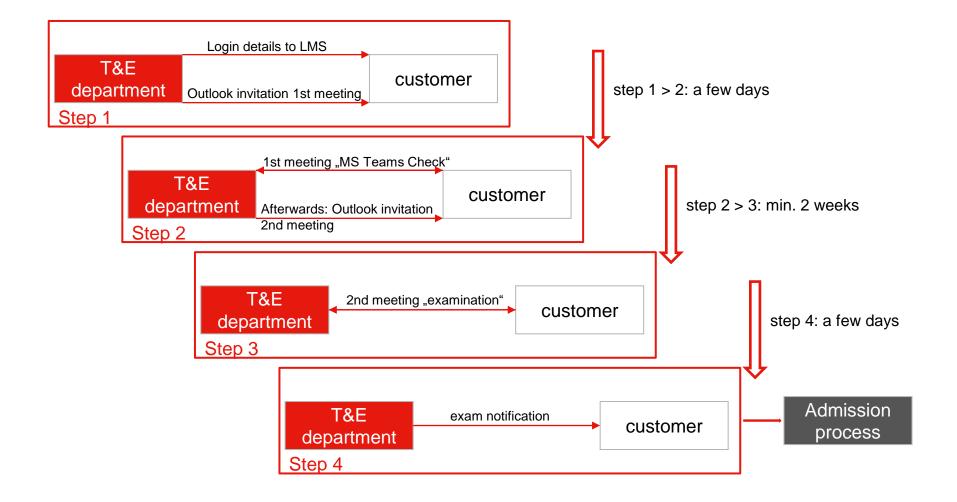
customer



Send over filled in trader exam registration forms to <a href="mailto:sales@getbaltic.com">sales@getbaltic.com</a> or <a href="mailto:training@eex.com">training@eex.com</a>

GET Baltic / EEX

## EEX trader exam online: the process





Q & A

Thank you for your attention.

part of eex group