

### > eex group

EU ETS – Participation in the auctions and outlook secondary market

09/05/24



# Agenda

- 1. EU ETS
- 2. EEX as common auction platform
- 3. Auction participation
- 4. Auction process
- 5. Secondary Market
- 6. Intermediaries
- 7. Q&A

### 1) EU ETS

- The EU Emissions Trading System (EU ETS) sets an overall limit (the "cap") on the greenhouse gas emissions for the sectors included (currently power generation, industry, aviation and maritime). The cap decreases every year, ensuring that total emissions fall.
- One emission allowance gives the holder the right to emit 1 ton of CO<sub>2</sub> (or CO<sub>2</sub>equivalent).
- Within the cap, companies receive or buy emission allowances, which they can **trade** as needed.



## 1) Auctioning – Background

- A transparent method for allocating emission allowances that allows participants to acquire the allowances concerned at market price
- The default method of allocating allowances since 2013 (so-called phase 3 of the EU ETS). Up to 57% of the allowances allocated through auctioning.
- The exact auctioning volume:
  - Determined annually based on the provisions of the <u>ETS Directive</u>.
  - May also be impacted by the functioning of the Market Stability Reserve.
- The proportion of allowances businesses have to buy through auctions is increasing:
  - Aviation 100% auctioning from 2026
  - Maritime added in 2024
  - ETS2 for building, road transport and additional sector starting in 2027 (also 100% auctioning)

## 1) Auctioning – Relevant Legislation

- ETS Directive
- Auctioning Regulation

#### **Environmental**

- Joint Procurement Agreement
- Common auction platform (CAP3) contract with Annexes
  - Escrow and custody agreements
  - Clearing conditions, as part of contractor's tender

#### **Operational**

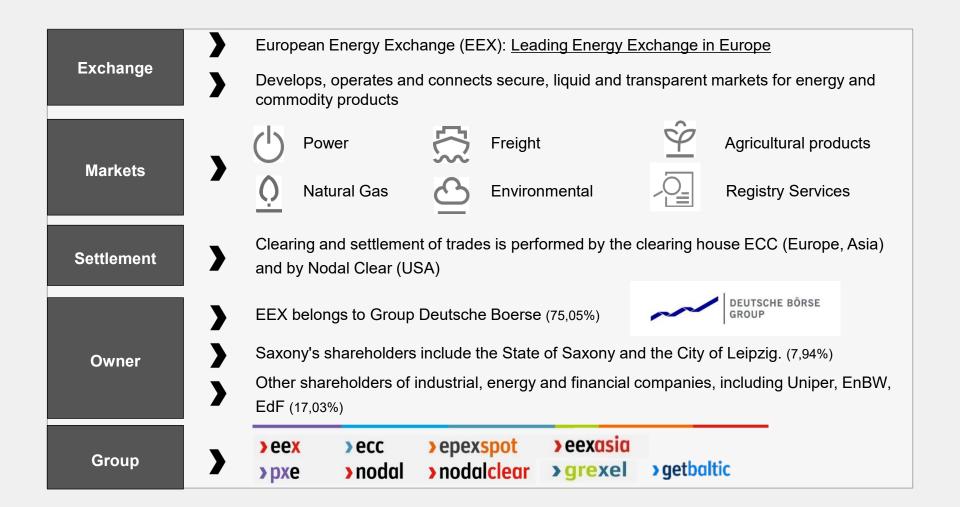
- Since 2018, emission allowances are classified as financial instruments under the Markets in Financial Instruments Directive (MiFID).
- Financial rules are applicable to emission allowances, in particular:
  - Market Abuse Regulation (MAR)
  - Anti-Money Laundering Directive (AMLD)
  - Settlement Finality Directive
  - Regulation on OTC Derivatives, Central Counterparties and Trade Repositories (EMIR)

#### **Financial**

### 1) Auctioning – The Auction Platform

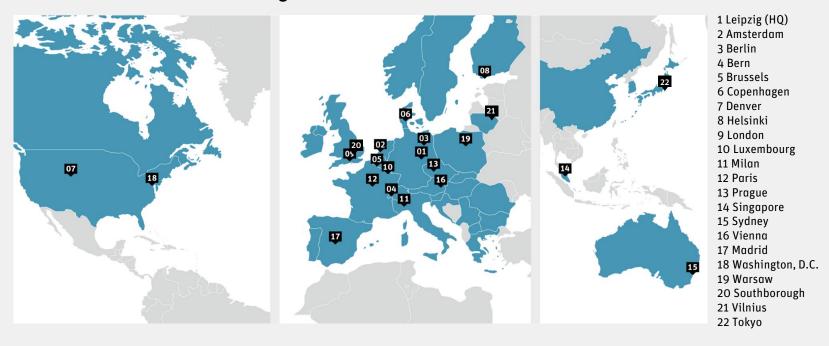
- 28 countries (25 EU Member States and 3 EEA/EFTA countries) auction their allowances on the common auction platform. To this end, they have signed a **Joint Procurement Agreement**
- Currently, the European Energy Exchange (EEX) in Leipzig is the common auction platform.
- Germany and Poland have opted-out of the common auction platform.
   Germany has nominated EEX as its opt-out platform, while Poland is using the common auction platform (EEX) to auction its allowances until further notice.
- For ETS2, allowances will be auctioned by the common auction platform only (no opt-out platforms).

### 2) EEX as common auction platform - Who is EEX?



## 2) EEX Group - A global commodity exchange

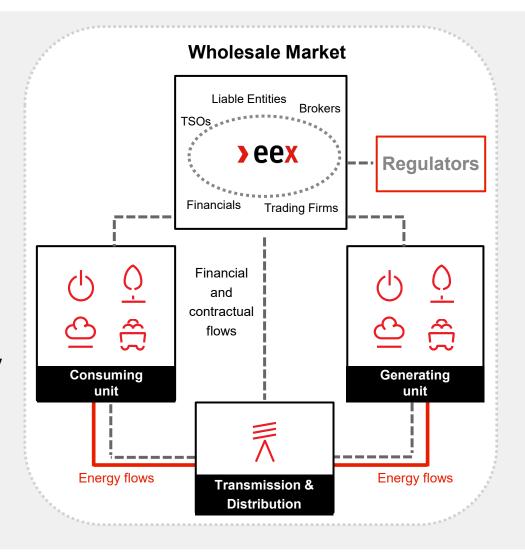
 EEX Group currently operates 22 offices in 8 time zones across 4 continents providing support and expertise for our clients and partners with local staff and regional focus



- More than 850 Trading participants from 41 countries
- Number 1 in power trading worldwide
- More than 2,800 Emissions Auctions in the EU ETS

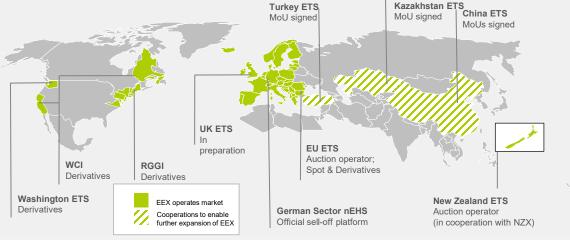
## 2) Importance of Exchange Trading

- Creating transparency through recognised reference prices and the publication of market data (prices and volumes)
- Pooling of liquidity due to a large number of trading participants on one trading platform
- Stability and security due to a high degree of automation on standardised trading and settlement processes
- Elimination of the counterparty risk through clearing and settlement via the clearing house ECC
- Ensuring equal treatment and non-discrimination through regulation and anonymity



### 2) EEX's involvement in Global Carbon Markets

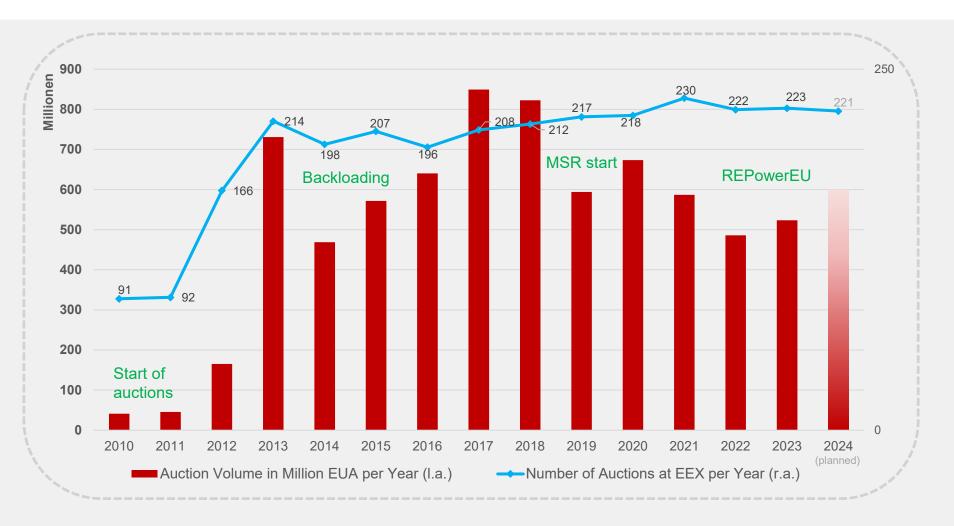
We develop and operate market infrastructure (auctions, secondary market, clearing, registry), with proven track-record of successful cooperation with governments and clients alike.



Our global team is committed to developing carbon markets worldwide

Europe – Core market EU ETS with EU ETS 2 as enlargement of covered sectors is on the horizon				
- Auction operator for all EU governments, operating auctions on almost daily basis - Secondary Market (Spot, Futures, Options)				
German nEHS - Official sell-off platform for German Fuel ETS (transport, heat sectors)				
UK ETS - Secondary Market in preparation				
JS – Growing US markets with new schemes being developed on state level and first offering of VCM products				
RGGI, California Washington ETS Western Climate Initiative (WCI)  - Futures & Options - Other Environmental Markets (RECs, RINs, SO <sub>2</sub> /NOx)				
Voluntary Carbon Market - VCM product suite (CORSIA-eligible, Nature-based, Removal, GER basket contract) listed at Noda				
Worldwide – Business relations with carbon market operators worldwide				
NZ ETS - Auction operator in partnership with New Zealand Exchange (NZX)				
TR ETS - MoU for ETS development with EPIAS				
China ETS - Partnerships and MoUs (CBEEX Beijing, CNEEEX Shanghai, CEEX, GFEX Guangzhou)				
KAZ ETS - MoU for ETS development with CCX				

### 2) EEX auctions for the EU ETS



→ More than 2,800 successful auctions to date (+12 cancelled auctions)

12

## 2) EU ETS Auctions timing and volume 2024

#### To be auctioned by EEX in 2024: ~593 million EUA and ~7 million EUAA

EU ETS States are the sellers of the allowances. They appoint an auctioneer to sell on their behalf and appoint an auction platform which is responsible for conducting the auctions.

#### **EU** auctions

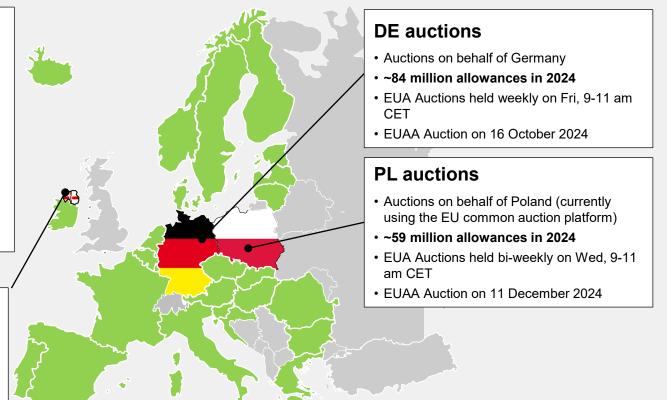
 Auctions for 25 EU Member States plus 3 EEA/EFTA countries (Norway, Iceland, Liechtenstein) plus Innovation Fund, Modernisation Fund and Recovery and Resilience Facility

EU common auction platform

- ~449 million allowances in 2024
- EUA Auctions held on Mon, Tue, and Thu, 9-11 am CET
- EUAA Auctions on 24 January, 20 March, 15 May, 10 July, 18 September, 13 November 2024

#### **UK auctions**

- in respect of generation of electricity in Northern Ireland
- ~1 million allowances in 2024
- EUA Auction on 2 October 2024



# 3) Auction participation - Why participate in Emissions Auctions?



- Auctioning is the default method of allocating allowances within the EU Emissions Trading System (EU ETS) → this means that companies liable under the EU ETS have to buy a proportion of allowances (European Union Allowances (EUAs) and EU Aviation Allowances (EUAAs)) through auctions or on the secondary market
- Auctioning is an open, transparent, harmonised and non-discriminatory process (see <u>Auctioning Regulation</u>)
- Advantages to participate in EUA/ EUAA Auctions at EEX:
  - Unique access to emissions auctions on mostly 5 days/week, covering 100% of European auction volume plus continuous trading on one single exchange
  - Variety of direct and indirect access options offered
  - Strong customer focus and personal assistance through our single admission team and offices in 22 locations
  - Fair and transparent price formation
  - Potentially lower fees than on the OTC and secondary market
  - Small discount to the secondary market price is possible

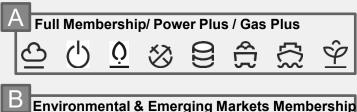
# 3) Auction participation - Who is eligible to bid in Emissions Auctions?

- Eligible participants according the <u>EU</u>
   Auctioning Regulation (Art. 18) are:
  - Compliance buyers (operators of stationary installations, aircraft operators, shipping companies)
  - Investment firms and credit institutions
  - Business groupings of compliance buyers
  - Other intermediaries specifically authorised by the home Member State
- These participants have to fulfil admission requirements according to EU and EEX rules, i.e.:
  - Establishment in the EU (except for compliance buyers)
  - Hold a nominated registry account in the Union registry (see <u>details</u>)
  - Hold a nominated bank account



# 3) Auction participation – several ways to participate

#### Direct Access – bid directly at EEX



Emissions: Auctions and Secondary Market

**Auction-Only Membership - System** Emissions: Auctions via Auction System

**Auction-Only Membership - Helpdesk** Emissions: Auctions via Market Operations

#### Contact:

#### **Admission Team**

Member Readiness

Phone: +49 341 2156 261

E-mail: memberreadiness@ecc.de

#### Sales Emissions

Phone: + 44 207 862 7555 E-mail: sales@eex.com or your Key Account Manager

#### **Market Operations (Helpdesk)**

Phone: +49 341 2156 222

E-mail: sales@eex.com or auctions@eex.com

Eikon-ID: eex-trading@eex.com

#### Indirect Access – bid via an intermediary

Intermediaries are eligible to bid on own behalf and on behalf of clients in accordance with Article 18 of the Auctioning Regulation. Currently the following companies offer to bid on behalf of clients in EEX auctions:

Intermediary

Emissions: Auctions via Intermediaries

www.abnamro.com www.actcommodities.com www.berenberg.de

www.gkpge.pl/dom-maklerski www.greenstar-capital.com

www.abnamroclearing.com www.afsgroup.nl

www.mkb.bg www.viennainvestment.ro

www.zf-ba.com

# 3) Auction participation - comparison

	A	В	C	D	E
Markets and Products	Full/Power Plus/Gas Plus	Environmental & Emerging Markets	Auction only	Auction only	Emissions: Auctions
Access to the Auction System	Direct	Direct	Direct	Via EEX Helpdesk	Via Intermediaries
One-off admission costs [kEUR]	0	0	0	0	To be
Fixed costs in the first year [kEUR]	0	0	0	0	negotiated
Fixed costs from the second year on [kEUR/a]	37/ 22/ 20 <sup>1,2</sup>	5/ 2.5 <sup>1,2</sup>	0 2	0 2	with the Intermediary
Variable Costs for Primary Auctions [EUR/1,000 allowances]	3.76 - 4.00	3.76 - 4.00	3.76 - 4.00	3.76 - 4.00	
Criteria to fulfil					
Eligibility criteria (according to Article 18 <u>Auctioning Regulation</u> )	✓	<b>√</b>	<b>√</b>	✓	<b>√</b>
Personal reliability and qualification of Members of the Management Board, Contract with Clearing Member, ECC Approval (Clearing House of EEX), Technical arrangements for settlement	✓	✓	✓	✓	Bilateral agreements with the Intermediary
Personal reliability and qualification of Trader/ Trader Assistants, EEX Admission of at least one trader, incl. EEX Trader examination, Technical arrangements for trading	<b>√</b>	<b>√</b>	<b>√</b>	*	
Liable equity of at least EUR 50,000	$\checkmark$	<b>✓</b>	×	×	

<sup>1</sup> Memberships: EEX Full: 37 kEUR/a, EEX Power Plus: 22 kEUR/a, EEX Natural Gas Plus: 20 kEUR/a, Environmental and Emerging Markets: 5 kEUR, emissions spot market: 2.5 kEUR/a

<sup>&</sup>lt;sup>2</sup> In addition to the fixed costs for the trading membership displayed above, from the second year on, an annual fee for the use of the clearing and settlement systems is charged. The fee is 1,000 EUR/a whereby all revenues with regards to variable clearing fees collected from the respective participant in the respective calendar year, will be credited against the annual fee. Details about all fees are available in the EEX price list and the ECC price list.

### 3) Auction participation - steps for direct access

- I. Contact and Decision (order of the two bullet points can vary):
- Contact EEX (contact details see slide 15)
- Decide for one of the access options (see slides 15 and 16)

II. Documents and Training:	АВ	С	D
Fill in the applicable documents (non-sequential)			
Eligibility Form	✓	✓	✓
Application for Admission as Exchange Participant (A01)	✓	×	×
Application for Setup / Modification of Exchange Traders/ Trader Assistants (A03)	✓	✓	×
Application for "Auction only"- Exchange participant (A05a)	×	✓	×
Application for "Auction only"- Exchange participant (A05b)	×	×	✓
Declaration of Personal Reliability (Board Members) (E01)	✓	✓	✓
Application for Setup / Modification of EEX User IDs (E03)	optional	×	×
Declaration of Personal Reliability (Trader/ Trader Assistants) (E04)	✓	$\checkmark$	×
Order for Technical Access (T01)	✓	✓	×
Straight Through Processing (T08)	optional	×	×
Application for Admission as Non-Clearing Member (NCM01)	✓	✓	✓
NCM Agreement with the Clearing Member (NCM02)	✓	$\checkmark$	✓
Know Your Customer Questionnaire (Group_KYC)	✓	✓	✓
Application for approval as a Trading Participant (TP)	✓	✓	✓
VAT Details (TP07)	✓	✓	✓
Take the training incl. examination	✓	✓	×

#### III. Confirmation of EEX/ ECC and Bidding/ Trading

### 4) Auction process - overview

Auction Day + 1 ~11:01 am CET ~11:05 am CET 9:00-11:00 am CET **Upon Request ECC Business day** Bidding window: Determination of the Publication: **Delivery (external):** Payment: Detailed Auction Transfer of allowances auction clearing price: • Products: From the Clearing from the ECC Union Bids are sorted in Results on the Website i. T3PA (Spot EU Member of a Trading descending order of (link to the dedicated Registry Account to the Allowances for Phase Member to ECC **Union Registry Account** the price bid auction website) 4 of the EU ETS, lot From ECC to the Tied bids are sorted of the Trading Member size: 500 EUA) Auctioneer through **random** ii. EAA3 (Spot EU selection according to **Aviation Allowances Delivery (internal):** an algorithm for Phase 4 of the EU Transfer of allowances · Bid volumes are added. ETS, lot size: 500 within the FCC Union starting with the highest EUAA) Registry Account from bid · Bids could be the Auctioneer (Seller) The price at which the submitted, modified to the Trading Member summed up bid and withdrawn during (potentially an volumes match or the bidding window Intermediary\*) having exceed the volume of Bids could be been successful in the allowances auctioned submitted directly in **Emissions Auction** sets the auction the Auction System (Buyer) clearing price for all (see Video Tutorial) or successful bidders indirectly via EEX Publication: Helpdesk or via Main Auction Results Intermediary in the Auction System Bids are submitted and on the Website without seeing other participant's bids

<sup>\*</sup> Delivery between the Intermediary and its client, if applicable, is to be agreed bilaterally.

### 4) Auction process – clearing price

**Example:** Auction for <u>1 million EUAs</u>

#### Order book

after close of bidding window phase

Bidder	Price	Volume
Α	62.00 €	500,000
В	66.00€	600,000
С	64.00 €	300,000
D	65.00 €	800,000
E	65.00 €	500,000
F	75.00 €	10,000
Total		2,710,000

#### Order book

sorted by price

Bidder	<b>Price</b>	Volume
F	75.00 €	10,000
В	66.00 €	600,000
D	65.00 €	800,000
	65.00 €	500,000
С	64.00 €	300,000
Α	22.00 €	500,000
Total		2,710,000

Allocation
10,000
600,000
*390,000
0
0
0
1,000,000

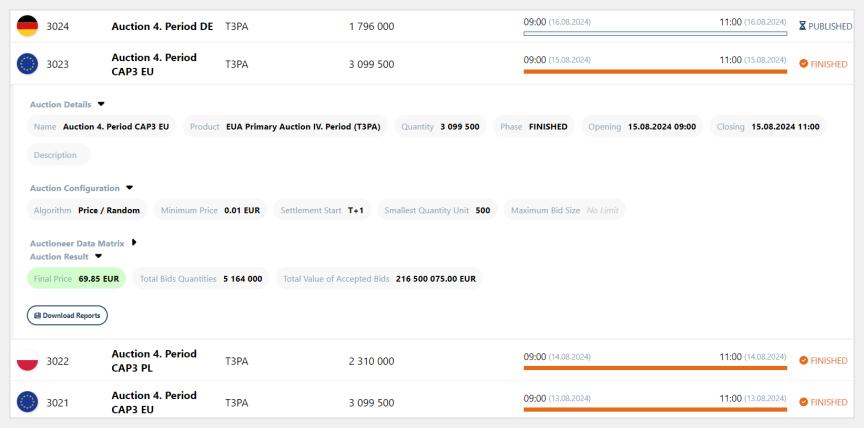
- Bids are sorted in descending order of the price bid
- Tied bids are sorted through random selection according to an algorithm
- Bid volumes are added, starting with the highest bid
- The price at which the summed up bid volumes match or exceed the volume of allowances auctioned sets the auction clearing price for all successful bidders
- In the example the volume is allocated at an auction clearing price of 65.00 € per allowance
- Bidder "D" sets the price for all bidders, being the last successful buyer
- More than one bidder on clearing price: \*random distribution of rest volume to one bidder

### 4) Auction process – cancellation

- An auction will be cancelled under certain conditions:
  - a) Total volume of bids falls short of the volume of auctioned allowances (Art. 7(5) Auctioning Regulation)
  - b) If the auction clearing price is significantly under the secondary market price (Art. 7(6) Auctioning Regulation)
  - c) If technical problems occur or are likely to occur (Art. 9 Auctioning Regulation)
- If an auction is cancelled, the following procedures will apply:
  - 1. <u>Immediate information</u> of market participants by EEX
  - Re-adjustment of the auction calendar
  - 3. Auction <u>volume</u> will be <u>evenly distributed over the next four</u> scheduled <u>auctions</u> (next two in case of EUAAs)

## 4) Auction process - During the auction

#### Screenshot auction system



Link to Auction System Tutorial

Link to Auction Website

# 5) Beyond auctions: Secondary market overview

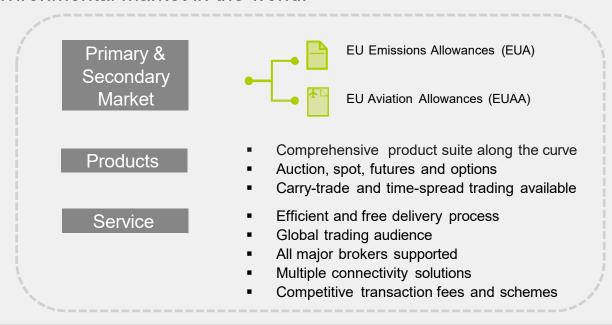
Primary market and secondary market - Differences

	Primary market	Secondary market
Authorised	Operators of stationary installations, aircraft operators and the maritime industry, as well as Investment firms, Credit Institutions and Business groupings under special conditions	<b>Every entity</b> meeting the EEX membership preconditions can participate in continuous EUA trading
Registry account	Union registry account e.g. Operator Holding Account (OHA)	Union registry account, but only required in case of physical delivery
Procurement	EUA auctions (max. 1/day), bidding procedure – Buy side only	Continuous exchange trading (Buy and Sell)
Frontend	M7 auction platform, own frontend via API	T7 GUI, EEX TT, Trayport, all major ISVs, own frontend via API*
Minimum lot size	500 EUAs	1,000 EUAs
Trading window	Almost every Exchange trading day 9:00 – 11:00 CET (Auction Calendar)	Every Exchange trading day 8:00 – 18:00 CET
Markets	Spot	Spot, Futures, Options
Capital cost	Payment after the auction	Derivatives: Payment after expiry close to compliance deadline possible
Kind of membership	Included in all EEX memberships.	Included in all EEX memberships – except of "Auction only" Membership

<sup>\*</sup> Connectivity (eex.com)

### 5) Beyond auctions: Secondary market overview

Transact on the leading exchange for European power in carbon emission allowances under the EU Emissions Trading Scheme (ETS), the largest environmental market in the world.



#### Physical delivery via ECC

- Streamlined physical delivery process with efficient direct interface to participant firms
- Same-day physical transfer via registered transfer available
- Seamless delivery handling across primary and secondary products

Free of charge

## 5) Beyond auctions: Secondary market products

EEX offers all major trading instruments in the EU Emissions Trading Scheme (ETS)

**Since 2005** EEX is operating trading in Emissions secondary markets. By that, it provides all necessary tools for market players to maintain their trading and hedging needs.

Secure your Carbon price risk up to 9 years ahead on EEX Futures Market.

#### **Secondary Market**

Spot trading with T+1 delivery	EU Allowances (EUA) EU Aviation Allowances (EUAA)
Futures trading with T+2 delivery after expiry incl. related spreads	EU Allowances (EUA) EU Aviation Allowances (EUAA)
Options trading on Futures	EU Allowance (EUA) Dec-Futures



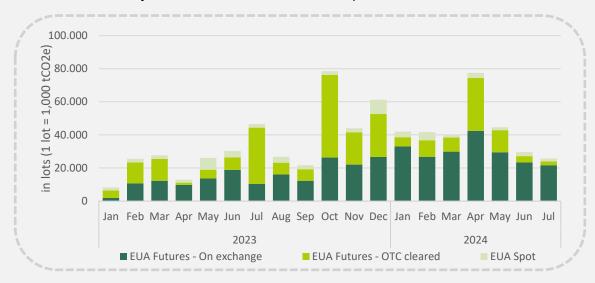
#### Frontende Trading Technologies (TT)

- State-of-the-art trading infrastructure
- Covers all EEX Futures plus Emissions spot
- Fully browser-based, platform independent
- Automatic and Algo trading, individual spreads

(all other major ISVs supported)

### 5) Beyond auctions: Secondary market outlook

#### EUA Secondary Market - Volume and Participants

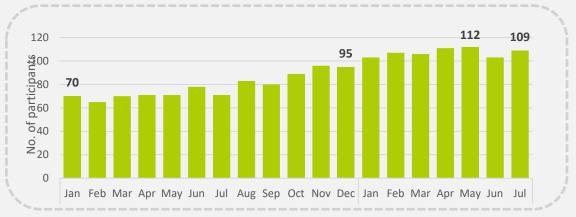


	·		
	Total 2024	YOY	
/olume	300,773	<b>(</b>	70%
Futures	281,900	1	81%

Performance indicators (Jan-Jul)

300,773	€	70%
281,900	<b>(</b>	81%
206,653	<b>(</b>	166%
75,247	W	-4%
18,873	<b>•</b>	-10%
	281,900 206,653 75,247	

- Competitive Bid-ask spreads since start of the Market maker program in Oct 2023
- Trading volumes up 70% YoY
- Significant positive trend in participation since beginning 2023.
   This marks a return on a long-term growth path.
- All-time record for participation in a year (164 status until July 2024)!



## 5) Beyond auctions: Secondary market outlook

### Ways to access EEX – admission requirements

#### **New Trading participants:**

Contact the EEX sales KAM or sales@eex.com for the admission process.



#### **Choose a Clearing Bank**

- 24 Clearing Banks (GCM) currently recognized by ECC
- Not in scope of EEX admission but a requirement for ECC
- Individual membership requirements
- Bespoke commercial framework
- Contact details on ECC website



#### Get admitted to Clearing

 NCM agreement (trilateral) with Clearing Bank and ECC

ecc

- · CM accepting the clearing of **Emissions market**
- ECC KYC process

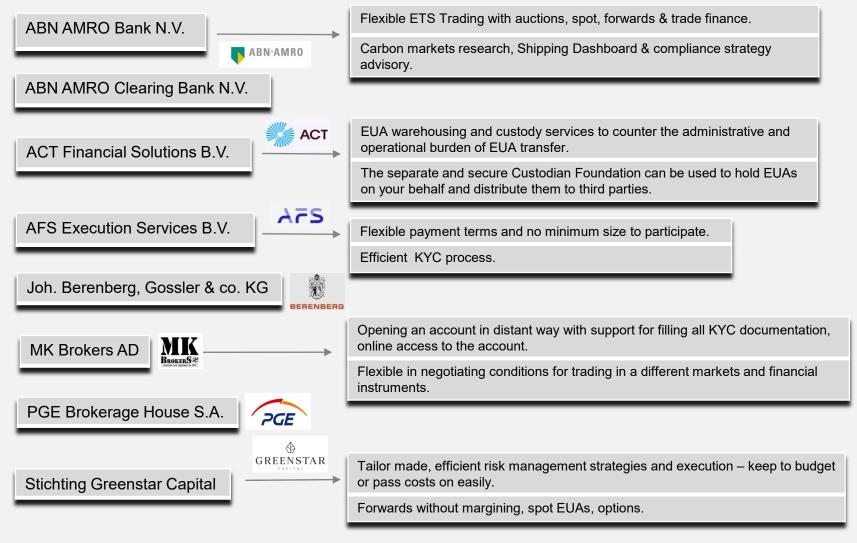


#### **Requirements for EEX Admission**

- Personal reliability
- · Professional qualifications of the management
- Liable equity of min. €50,000
- Min. one examined trader
- Technical connection
- ECC membership

Further information, including the relevant application forms, are available at EEX and ECC

### 6) Intermediaries



Please find more intermediaries and contact details here: EU ETS Auctions (eex.com)

# Q & A

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### Contacts

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Thank you

>eex >epexspot >nodal >nodalclear >ecc >grexel >getbaltic >pxe >eexasia