AUCTIONS BY THE TRANSITIONAL COMMON AUCTION PLATFORM

The world's largest auctioning of emissions allowances

April 2014
In 2013, more than 40% of allowances allocated under the EU ETS have been auctioned instead of being allocated free of charge. Auctioning emission allowances at that scale is unprecedented and delivers valuable experience for auction design in other carbon markets and for other environmental assets.

Auctioning is the most transparent method of allocating allowances and puts into practice the principle that the polluter should pay. With some limited exceptions, from 2013 electricity generators must buy all their allowances: experience shows that they have been able to pass on the notional cost of allowances to customers even when they received them for free.

Most of the allowances to be auctioned are allocated to States on the basis of their historical share of emissions from EU ETS installations. Ten per cent are allocated to the least wealthy EU member states and the remaining 2% is given as a ‘Kyoto bonus’ to nine EU member states which had most reduced their greenhouse gas emissions.

At least half of auctioning revenues, and all of the revenues from auctioning allowances to the aviation sector, should be used to combat climate change in Europe or other countries.

EEX (Leipzig) conducts the auctions for 26 Member States covering about two thirds of the total auctioned volume. For the remaining volume, Germany and the United Kingdom have appointed EEX and ICE Futures Europe (ICE, London) respectively.

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Editor’s note: This report has been prepared by the Commission on behalf of the following Member States: Austria, Belgium, Bulgaria, Croat Republic, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain and Sweden. These Member States have approved this report under the rules in the Joint Procurement Agreement to procure common auction platforms (except for Poland, whose comments were requested separately). The report complies with the requirement laid down in the fourth subparagraph of Article 10(4) of Directive 2003/87/EC.¹

Methodology: The report is based on the reports submitted by EEX, on the discussions in regular meetings between the Commission, its advisors and EEX and on any further relevant information available to the Commission. The authors of the report did not actively verify EEX’s compliance with the specific rules and provisions applicable under European or national law.

For reasons of confidentiality and proper enforcement of the applicable rules, the report refers only to public reporting on the auctions and not to any non-public reports.

Disclaimer: The authors have made every effort to ensure that the information provided is complete, correct and precise for the reporting period. Nevertheless, the report is based on limited information available to the authors in a market context where much information has to remain confidential. The authors did not actively verify the information. Therefore, the authors and the Member States on whose behalf this report was drafted deny any responsibility or liability whatsoever for its contents, regardless of the nature of such contents. Any reliance by any person or entity on the information provided in this report is solely at that person’s or entity’s own risk.

Glossary: terms and expressions written in italics are included in the glossary.

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Executive summary

This report covers the auctioning of emissions allowances in the period April 2014. In that period, EEX, in its capacity as the common auction platform, auctioned a total of 23 130 000 EU general emission allowances ('EUAs') in 12 auctions for the third trading period on behalf of those EU Member States that participate in the transitional common auction platform (participating Member States).

In accordance with the Commission Regulation (EU) No 176/2014 determining the volumes of greenhouse gas emission allowances to be auctioned in 2013-20, specifically the back-loading of allowances from the years 2014, 2015 and 2016 to the years 2019 and 2020, the volumes to be auctioned have been reduced. Accordingly, the volumes auctioned by the common auction platform have been revised as of 17 March 2014. The revised auction calendar is published on EEX website.

The total amount raised from the 12 auctions held during the reporting period was EUR 119 948 325. Taking into account the volumes per auction, the weighted average clearing price during the reporting period was EUR 5.19 per EUA.

During the reporting period 65 bidders were eligible to bid in the auctions, of which 44 qualified as operators in the EU ETS.

All auctions were held securely and smoothly and no irregularities or deviations from the requirements were observed.

Generally, the auction clearing price was in line with the price signal in the secondary market.

During the reporting period, EEX did not hold any auction for EU aviation allowances ('EUAs'). In response to the positive developments at previous ICAO Assembly, the Commission proposed an amendment to the EU ETS Directive of 16 October 2013 regarding aviation emissions. This amendment has been adopted by Regulation (EU) No 421/2014, published on 30 April 2014. One of the derogations would allow aircraft operators to surrender allowances with respect to 2013 emissions by 30 April 2015 instead of 30 April 2014. In view of this, the Commission and the Member States had asked EEX to put on hold aviation allowances auctions until there is greater clarity, on the appropriate volumes to be auctioned. With the recent adoption of the Regulation, the preparation to resume auctioning of aviation allowances is ongoing. Further information will be published.

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Section 1. Results of the auctions

During the month of April 2014, EEX, in its capacity as the transitional common auction platform, auctioned, in 12 auctions, a total of 23,130,000 EUAs valid for the third trading period on behalf of all 24 EU Member States that have contracted EEX and appointed it as the transitional common auction platform.

The total amount raised from the 12 auctions held during the reporting period was EUR 119,948,325 (see Graph 1 and Table 1). Taking into account the volumes per auction, the weighted average clearing price during the reporting period was EUR 5.19 per EUA. This is a decrease of EUR 1.23 per EUA compared with the previous reporting period.

Graph 1 Total auction revenue per auction (euro).
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Graph 2 Auction revenues per auction as from May 2013.

The total amount raised from the auctions held between 13 November 2012 and 31 April 2014 was EUR 3 678 675 760 (see Table 1).

Table 1 Auction revenues per Member State (euro)

<table>
<thead>
<tr>
<th></th>
<th>13 November 2012 – 31 March 2014</th>
<th>April 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>86.704.240</td>
<td>3.360.420</td>
</tr>
<tr>
<td>Belgium</td>
<td>151.270.860</td>
<td>6.067.425</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>96.908.915</td>
<td>1.462.405</td>
</tr>
<tr>
<td>Cyprus</td>
<td>2.359.150</td>
<td>0</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>123.624.695</td>
<td>4.200.525</td>
</tr>
<tr>
<td>Denmark</td>
<td>75.080.390</td>
<td>3.018.155</td>
</tr>
<tr>
<td>Estonia</td>
<td>24.102.790</td>
<td>124.460</td>
</tr>
<tr>
<td>Greece</td>
<td>212.096.260</td>
<td>8.338.820</td>
</tr>
<tr>
<td>Spain</td>
<td>538.016.500</td>
<td>20.722.590</td>
</tr>
<tr>
<td>Finland</td>
<td>104.182.160</td>
<td>4.013.835</td>
</tr>
<tr>
<td>France</td>
<td>340.902.990</td>
<td>13.130.530</td>
</tr>
<tr>
<td>Hungary</td>
<td>60.017.750</td>
<td>3.609.340</td>
</tr>
<tr>
<td>Ireland</td>
<td>55.000.895</td>
<td>2.240.280</td>
</tr>
<tr>
<td>Italy</td>
<td>600.153.470</td>
<td>23.149.560</td>
</tr>
<tr>
<td>Lithuania</td>
<td>30.144.805</td>
<td>1.057.910</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Month</th>
<th>13 November 2012 – 31 March 2014</th>
<th>April 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luxemburg</td>
<td>7.439,750</td>
<td>280,035</td>
</tr>
<tr>
<td>Latvia</td>
<td>16.785,640</td>
<td>653,415</td>
</tr>
<tr>
<td>Malta</td>
<td>6.189,955</td>
<td>248,920</td>
</tr>
<tr>
<td>Netherlands</td>
<td>207,740.040</td>
<td>8.058,785</td>
</tr>
<tr>
<td>Poland</td>
<td>322,031.455</td>
<td></td>
</tr>
<tr>
<td>Portugal</td>
<td>108,543.265</td>
<td>4.231,640</td>
</tr>
<tr>
<td>Romania</td>
<td>210,526.915</td>
<td>5.102,860</td>
</tr>
<tr>
<td>Sweden</td>
<td>55,486,830</td>
<td>2.146,935</td>
</tr>
<tr>
<td>Slovenia</td>
<td>27,527.915</td>
<td>1.057,910</td>
</tr>
<tr>
<td>Slovak Republic</td>
<td>95,889,800</td>
<td>3.671,570</td>
</tr>
</tbody>
</table>

Detailed information per auction can be found in Annex I.

Table 2: Overview

<table>
<thead>
<tr>
<th>Month</th>
<th>Auction volume</th>
<th>Bid volume</th>
<th>Cover ratio</th>
<th>Bidders</th>
<th>Successful bidders</th>
<th>Price</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>23,130,000</td>
<td>177,597,500</td>
<td>7.68</td>
<td>17.67*</td>
<td>10.83*</td>
<td>€ 5.19*</td>
<td>€ 119,948,325</td>
</tr>
<tr>
<td>March</td>
<td>42,048,500</td>
<td>280,163,000</td>
<td>6.66**</td>
<td>17.35**</td>
<td>11.75**</td>
<td>€ 6.42**</td>
<td>€ 269,929,405</td>
</tr>
<tr>
<td>February</td>
<td>52,667,000</td>
<td>216,991,500</td>
<td>4.12**</td>
<td>19.68**</td>
<td>14.30**</td>
<td>€ 6.38**</td>
<td>€ 336,162,075</td>
</tr>
<tr>
<td>December</td>
<td>39,078,000</td>
<td>130,983,000</td>
<td>3.35**</td>
<td>21.48**</td>
<td>16.09**</td>
<td>€ 4.61**</td>
<td>€ 180,068,050</td>
</tr>
<tr>
<td>November</td>
<td>56,161,000</td>
<td>225,489,500</td>
<td>4.01**</td>
<td>19.91**</td>
<td>15.01**</td>
<td>€ 4.50**</td>
<td>€ 252,482,700</td>
</tr>
<tr>
<td>October</td>
<td>59,642,500</td>
<td>248,905,500</td>
<td>4.17**</td>
<td>20.16**</td>
<td>15.72**</td>
<td>€ 4.85**</td>
<td>€ 289,295,510</td>
</tr>
<tr>
<td>September</td>
<td>55,982,500</td>
<td>175,589,000</td>
<td>3.14**</td>
<td>14.13**</td>
<td>19.36**</td>
<td>€ 5.18**</td>
<td>€ 289,930,690</td>
</tr>
<tr>
<td>August</td>
<td>19,453,500</td>
<td>93,944,000</td>
<td>4.83*</td>
<td>16.73*</td>
<td>9.82*</td>
<td>€ 4.39*</td>
<td>€ 85,400,865</td>
</tr>
<tr>
<td>July</td>
<td>48,461,000</td>
<td>175,212,000</td>
<td>3.62*</td>
<td>17.64*</td>
<td>12.36*</td>
<td>€ 4.19*</td>
<td>€ 203,155,435</td>
</tr>
<tr>
<td>June</td>
<td>41,538,000</td>
<td>136,338,500</td>
<td>3.28*</td>
<td>18.42*</td>
<td>11.83*</td>
<td>€ 4.20*</td>
<td>€ 174,390,370</td>
</tr>
<tr>
<td>May 2013</td>
<td>38,082,000</td>
<td>102,333,000</td>
<td>2.69*</td>
<td>17.73*</td>
<td>12.36*</td>
<td>€ 3.40*</td>
<td>€ 129,513,420</td>
</tr>
</tbody>
</table>

* average
**volume-weighted average (when the volume of allowances sold varied between auctions within a month, see auction volumes in Annex I)

Auctioning Member States

At the start of the reporting period, the auctioneers of 24 participating Member States had been admitted and recognised by EEX/ECC and were participating in the auctions.

In accordance with the second subparagraph of Article 30(7) of the Auctioning Regulation, pending the procurement, appointment and listing of its opt-out auction platform, Poland contracted EEX to auction its share of allowances to be auctioned. These auctions started on 16 September 2013. Due to the back-loading, no auctions were held for Poland in April 2014.

On 1 July 2013, Croatia joined the European Union, and it has become a party to the Joint Procurement Agreements so as to auction its share of allowances on EEX. The auctioneer appointed
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by Croatia has, however, still to submit the necessary documentation. Hence, the starting date remains to be determined.

The Member States of the European Free Trade Association (EFTA) that are Party to the European Economic Area (EEA)\(^5\) have also stated their intention to make use of the transitional common auction platform by aggregating their volumes to those auctioned on behalf of the participating Member States. The preparations for this are on-going.

Auction clearing price

During the period under consideration, the auction clearing price for the EUAs moved between EUR 4.60 and EUR 5.77 per allowance (see Graph 3). The lowest auction clearing price in this reporting period is EUR 0.43 above the lowest auction clearing price during the previous reporting period. The highest auction clearing price in this reporting period is EUR 1.20 per allowance below the highest auction clearing price of the previous reporting period.

Graph 3 Auction Clearing Price (ACP) & Maximum prices bid & Minimum prices bid [euro/ton].

For all auctions, the clearing prices were within a range of EUR 0.05 or less from the mean of the best-ask and best-bid prices on the EEX secondary market for spot emission allowances and in average equal to that mean. In general, the auction clearing prices were also in line with the prices of Iceland, Liechtenstein and Norway.

\(^5\) Iceland, Liechtenstein and Norway.
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carbon products on other trading venues, and with the clearing prices of other auctions of emission allowances conducted during the period.

The auction clearing price showed an upward trend during the reporting period.

Maximum and minimum prices bid

The highest prices bid in the auctions were on average EUR 0.39 per EUA above the clearing price (see Graph 3).

The lowest prices bid in the auctions were on average EUR 3.47 per EUA below the clearing price. This difference was smaller for five auctions during the reporting period.

The average difference between the maximum price bid and the minimum price bid in the auctions was EUR 1.05 lower than the difference for the auctions conducted in the preceding month.

Graph 4 Auction clearing price, maximum bid and minimum bid as from May 2013.

Cover ratio

The cover ratio — the bid volume as a proportion of the available volume in the auction — (see Graph 5) moved between 3.75 and 10.81 during the reporting period. The average was about 5.5%
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higher than the average cover ratio during the previous reporting period. The lowest cover ratio during the reporting period was 4.78 at the auction of 29 April 2014 with the highest cover ratio being 10.81 at the auction of 7 April 2014. Changes to the cover ratio in comparison to previous periods derive inter alia from the significant change in volume occurred from 17 March 2014.

Graph 5 Cover ratio: bid volume versus available volume.

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6 In the previous period, the auction volumes were reduced as of 17 March 2014 in implementation of back-loading.
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**Graph 6** Cover ratio as from May 2013: bid volume versus available volume.

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**Number of Bidders**

The number of active bidders per auction ranged from 15 to 23 (see Graph 7). The average number of active bidders was 17, which is equal to the average number of active bidders during the previous reporting period. Overall, the number of active bidders per auction did not show a clear upward or downward trend during the reporting period.

The number of successful bidders per auction ranged from 6 to 15 during the reporting period. The average number of successful bidders was 11, as the average number of successful bidders during the previous reporting period. Overall, the number of successful bidders per auction did not show a clear upward or downward trend during the reporting period.
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Graph 7 Number of bidders and number of successful bidders.

In total, 28 different bidders participated in the auction (see Graph 8). Four of them participated in all auctions during the reporting period. Seven of them participated only in four or fewer auctions during the reporting period.
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Graph 8 Number of auctions in which each bidder participated (bidders are identified by numbers).

Graph 9 Number of bidders and successful bidders as from May 2013.
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Average bid volume per bidder and average volume won by successful bidders

The total volume of bids for the 12 auctions amounted to 177,597,500 EUAs, which is 36.6% less than the previous period. With 28 bidders during the month, this makes an average of 6,342,768 EUAs per bidder. Per auction, the average total bid volume per bidder ranged from 380,474 to 1,171,529 EUAs during the reporting period (see Graph 10), with average of 836,027, which is 26.5% lower than the average in March 2014. This average did not show a clear upward or downward trend during the reporting period. The standard deviation of the average total bid volume per bidder for the individual auctions ranged from 380,474 to 1,171,529 EUAs during the reporting period, with an average of 836,027, which is 26.5% lower than the average in March 2014.

The average bid size ranged from 111,215 to 206,083 per auction, with an average of 159,901. This average was about 26% lower than during the previous reporting period. The average number of bids per bidder ranged from 3.42 to 6.88 per auction, with an average of 5.16.

The total volume auctioned amounted to 23,130,000 EUAs. With 25 successful bidders during the month, this makes an average of 925,200 EUAs per successful bidder, which is 43% lower than the average in March 2014. Per individual auction, the average volume won by successful bidders ranged from 128,500 to 321,250 EUA, with average of 186,477 which is 31% lower than the average in March. This average did not show a clear upward or downward trend during the reporting period. The standard deviation ranged from 141,720 to 532,807, and over the entire month was 954,287.

Graph 10 Average bid volume and volume won per bidder.

The auction volumes were reduced as of 17 March 2014 in implementation of back-loading.
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Graph 11 Average bid volume and volume won per bidder as from May 2013.

Volume of successful bids per bidder category

During the reporting period almost all bidders bid on their own account, with less than 0.001 % of the volume submitted by intermediaries on behalf of a client. Operators, including business groupings of operators, accounted for about 67.6% of the total auctioned volume during the reporting period, compared to 57.6% in March 2014 (see Graph 12).

Investment firms, including persons exempt, accounted for about 19% of the total auctioned volume during the reporting period, compared to 15.8% in March 2014.

Credit institutions accounted for about 13.3% of the total auctioned volume during the reporting period, compared to 26.5% in March 2014.

However, the shares of successful bids per category showed some fluctuations over the period. The standard deviation of the shares was 15%, 13%, 10% and 3% for operators (including business groupings of operators), investment firms, credit institutions and persons exempt respectively.
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Graph 12: Volume of successful bids per bidder category.

Graph 13: Volume of successful bids per bidder category as from May 2013.
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The Herfindahl-Hirschman Index (HHI)

The Herfindahl-Hirschman Index (HHI) is used by EEX to measure market concentration. The HHI is calculated as the sum of the squares of all successful bidders’ shares (in %) of the total auctioned volume per auction. The HHI ranges from a value of 0 (perfect competition) to 10000 (a single monopolistic buyer).

A common interpretation of the HHI is that a score below 1500 is ‘not-concentrated’, between 1500 and 2500 is ‘moderately concentrated,’ and above 2500 is ‘highly concentrated’.

In general, the HHI moved between about 1400 and 6200 (see Graph 14) and the average HHI during the reporting period was 2376. The HHI calculated as the sum of the squares of all successful bidders’ shares (in %) of the total auctioned volume in the reporting period was 826.

Graph 14 Herfindahl-Hirschman Index.
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Graph 15 Herfindahl-Hirschman Index as from April 2013 (lower means less market concentration).

Section 2. Implementation of and compliance with the applicable rules

Fair and open access

EEX verified that each auction participant belonged to one of the categories of eligible bidders set out in Article 18 of the Auctioning Regulation. During the reporting period, the number of eligible bidders was 65. Most of the active participants in the carbon market are assumed to have been admitted to bid in the auctions.

Of the 65 companies eligible to bid in the auctions 44 were EU ETS operators, 10 were investment firms and 7 were credit institutions (see Table 3). The 4 other companies eligible to bid in the auctions were persons exempt from the authorisation requirements in EU financial law, because their trading and investment services activities are only ancillary to their main business (Article 2(1)(i) of Directive 2004/39/EC), that were authorised under national legislation implementing the Auctioning Regulation to bid for allowances in the auctions.

Throughout the period, EEX actively promoted the auctions in view of attracting bidders.
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Table 3 Eligible bidders per category at the end of the reporting period

<table>
<thead>
<tr>
<th>Number of participants</th>
<th>Operators</th>
<th>Investment firms</th>
<th>Credit Institutions</th>
<th>Business groupings</th>
<th>Persons exempt From MiFID requirements (Article 2(1)(i) Directive 2004/39/EC)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stationary</td>
<td>Aircraft</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Participants admitted to EEX’s emissions spot secondary market</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Participants eligible to bid in the auctions</td>
<td>43</td>
<td>1</td>
<td>10</td>
<td>7</td>
<td>0</td>
<td>65</td>
</tr>
<tr>
<td>(Of which:) Participants eligible to bid in the auctions on behalf of clients</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>(Of which:) Auction-only participants</td>
<td>3</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

Five of the admitted participants made use of the option of ‘auction-only access’ to the auctions. Most bids were submitted by the bidder; less than 0.001% of the volume was submitted by intermediaries on behalf of a client.

No irregularities or deviations from the admission and access requirements were found.

Transparency

For all but three auctions, the results were published in accordance with Article 61 of the Auctioning Regulation, not later than 15 minutes after the close of the bidding window. Due to technical problems, the publication was delayed in the auctions of 14, 15 and 17 April 2014. This delay only concerned the publication on the website, market participants were informed within the usual timing via dedicated channels.

The auction calendar was adjusted in February 2014 and auctions with revised volumes as from 17 March 2014.

EEX revised its webpage on auctioning where necessary for keeping it up to date.

Technical and operational aspects

No irregularities or deviations from the requirements were found as regards the auctions themselves or the clearing and settlement processes.

EEX’s Market Surveillance department surveyed all auctions with a view to detecting any market abuse, money laundering, terrorist financing or other criminal activities. No such wrongdoing was publicly reported. EEX’s Market Surveillance department takes its instructions only from SMWA (Saxony’s Ministry for Economy and Employment) and is independent of the exchange itself.

No infringements of the confidentiality requirements were identified.
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Other aspects
No problems or issues were identified as regards coordination of the auctions between the various auction platforms.

Section 3. Overview of, and any updates on breaches of provisions or ongoing proceedings

No breaches or problems of non-conformity were reported. There were no proceedings on such breaches or problems of non-conformity dating from before the reporting period.

Approval of the report

Comments of the auction platform on the draft of this report and the way they have been taken into account

EEX made no comments on the report.

Date of approval by the Member States: 23/06/2014

Place & date: Brussels, 23/06/2014
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Glossary

Auction calendar  Document setting out the *bidding windows*, individual volumes and auction dates of the auctions in a given calendar year. See Articles 11, 13 and 32 of the *Auctioning Regulation*.

Auction-only access  Access to the auctions without becoming a member of or participant in other markets organised by the auction platform.


Auctioneer  Entity appointed by a Member State that offers the allowances to be auctioned to the auction platform and receives the auction proceeds due to the appointing Member State. See Articles 22 and 23 of the *Auctioning Regulation*.


Best-bid and best-ask prices  The best-bid price is the highest price any buyer is willing to pay and the best-ask price is the lowest price any seller is willing to accept.

Business groupings  Groupings of operators or aircraft operators. See Article 18(1)(d) of the *Auctioning Regulation*.

Bidding window  Time during which bidders can submit bids. See Article 8(1) of the *Auctioning Regulation*.

Clearing  Processes preceding the opening of the bidding window, during the bidding window and following the closure of the bidding window until settlement, involving the management of any risks arising during that interval including margining, netting or novation or any other services carried out possibly by a clearing or settlement system. See Article 3(31) of the *Auctioning Regulation*.

Cover ratio  Total bid volume divided by the available volume in the auction.

Credit institution  Credit institution as defined in EU legislation on credit institutions (Article 4(1) of Directive 2006/48/EC).

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EU general allowance (EUA) Allowance to emit one tonne of CO2-equivalent, see Article 3(a) of the ETS Directive.

EU aviation allowance (EUAA) Allowance to emit one tonne of CO2-equivalent that can be used by aircraft operators. See Article 12(2a) and (3) of the ETS Directive.


Participating Member States All EU Member States except Germany, Poland and the UK, which decided to opt out from the joint procurement of a common auction platform pursuant to Article 30 of the Auctioning Regulation.

Persons exempt Persons exempt from the authorisation requirements in EU financial law because their trading and investment services activities are only ancillary to their main business (Article 2(1)(i) of Directive 2004/39/EC) and that have been authorised under national legislation implementing the rules laid down in the Auctioning Regulation to bid for allowances in the auctions. See Article 18(2) of the Auctioning Regulation.

Secondary market Market in which persons buy or sell allowances either before or after they are allocated either free of charge or through auctioning. To be distinguished from the ‘primary market’, which consists of the auctions of allowances.

Settlement Payment on delivery of the allowances. See Article 3(34) of the Auctioning Regulation.

Spot secondary market Secondary market for allowances with delivery within 5 days from the transaction.


TARGET-2 bank account Bank account in the TARGET2 system, which is an interbank payment system for real-time processing of cross-border transfers throughout the European Union. TARGET2 replaced TARGET (Trans-European Automated Real-time Gross Settlement Express Transfer System) in November 2007.
| Third trading period | The period 2013-2020. Allowances are valid during a given period without distinction as regards the year within that period. See Article 13 of the *ETS Directive*. |
### Annex 1 Results of individual auctions

<table>
<thead>
<tr>
<th>Date</th>
<th>Auction Price €/tCO2</th>
<th>Minimal Price €/tCO2</th>
<th>Maximal Price €/tCO2</th>
<th>Mean Price €/tCO2</th>
<th>Median Price €/tCO2</th>
<th>Auction Volume tCO2</th>
<th>Total Amount of Bids</th>
<th>Cover Ratio</th>
<th>Total Number of Bidders</th>
<th>Total Number of Successful Bidders</th>
<th>Total Revenue €</th>
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