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AUCTIONS BY THE TRANSITIONAL COMMON AUCTION PLATFORM

The world's largest auctioning of emissions allowances

June 2015

Auctions by the *Transitional Common Auction Platform*

June 2015

Auction platform: European Energy Exchange (EEX)

Auction dates/reporting period:

General Allowances:

1, 2, 8, 9, 11, 15, 16, 18, 22, 23, 25, 29, 30 June 2015;

Aviation Allowances:

-

Auctioning is the default method of allocating allowances within the EU emissions trading system (EU ETS). Since the start of the *Third trading period* in 2013 over 1.4 billions of allowances allocated under the EU ETS have been auctioned. Auctioning of 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 and efficient method of allocating allowances and puts into practice the principle that the polluter should pay.

The auctions are conducted pursuant to the modalities stipulated in the *Auctioning Regulation*. Two auction platforms are in place. The European Energy Exchange (EEX) in Leipzig is the common platform for the large majority of countries participating in the EU ETS. EEX also acts as Germany's auction platform. The second auction platform is ICE Futures Europe (ICE) in London, which acts as the United Kingdom's platform. Poland may appoint an opt-out auction platform but is using for the time being the common auction platform.

The numbers of *General Allowances* to be auctioned by each State on behalf of which they are auctioned are determined on the basis of their historical share of emissions from installations covered by the EU ETS, taking into account the free allocation volumes. Up to 2020 ten per cent are allocated to the least wealthy EU Member States and the remaining two per cent is given as a 'Kyoto bonus' to nine EU Member States which by 2005 had reduced their greenhouse gas emissions by at least 20% of levels in their Kyoto Protocol base year or period.

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

For further information: http://ec.europa.eu/clima/policies/ets/cap/auctioning/index_en.htm

Editor's note: This report has been prepared by the Commission on behalf of the following Member States: Austria, Belgium, Bulgaria, Republic of Croatia, 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. The report complies with the requirement laid down in the fourth paragraph of Article 10(4) of the *ETS Directive*.

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. EEX has supplied the data used in this report and been consulted before its publication, whereas the *participating Member States* have been consulted on its template.

For reasons of confidentiality and proper enforcement of the applicable rules, the report refers to reporting on the auctions held based on information provided by EEX. Any data not directly related to the auctions is based only on 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. Monthly averages provided are weighted by each auction's auction volume, unless otherwise indicated.

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

Executive summary

This report covers the auctioning of emission allowances in the period June 2015. In this period, EEX, in its capacity as the common auction platform, auctioned a total of 37 934 000 *general allowances* in 13 auctions for the *third trading period* on behalf of those EU Member States (*participating Member States*) that participate in the *Transitional Common Auction Platform (TCAP)*. No *aviation allowances* have been auctioned during this period. EEX also didn't auction *general allowances* or *aviation allowances* for Poland during this period.

All auctions were held successfully and no irregularities or deviations from the requirements were observed. The table below contains a summary of the information concerning the conducted auctions.

The June 2015 auctions at a glance (no *aviation allowances* have been auctioned this period):

	<i>General Allowances</i> June	<i>Aviation Allowances</i> June
General		
Number of auctions	13	N.A.
Total volume auctioned	37 934 000	
Amount raised from the auctions (€)	281 645 360	
Average Auction Clearing Price (€/allowance)	7.42	
Total bid volume	117 971 500	
Average <i>Cover ratio</i>	3.1	
Participation		
Number of eligible bidders	68	
Number of participating bidders ⁽¹⁾	27	
Number of successful bidders ⁽¹⁾	24	
Average number of bidders per auction	16.8	
Average number of successful bidders per auction	12.3	
Auction data		
Average total volume bid per bidder per auction	534 698	
Average bid size (volume per bid)	142 270	
Average volume won per bidder per auction	243 36	
Average range of bids (€)	1.87	

(1): Number of unique individual bidders or unique successful bidders present in a whole month

Introduction

All the *participating Member States* were participating in the auctions as from January 2015.

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 from April to December 2014, the auctions restarted in January 2015.

Accordingly, the present report includes data on the auctions performed by the common auction platform on behalf of the *participating Member States* and Poland.

The Member States of the European Free Trade Association (EFTA) that are Party to the European Economic Area (EEA)¹ 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.

1. Results of the auctions

The total revenues from auctions of *general allowances* accrued to the *participating Member States* and Poland from the start of the *Third trading period* auctions (November 2012) to June 2015 are EUR 6 204 167 130. The total revenues from auctions of *aviation allowances* accrued to the *participating Member States* and Poland from the start of the *Third trading period* auctions (November 2012) to June 2015 are EUR 99 485 465. The revenues per each *participating Member State* in the reporting period as well as cumulative data are provided in Annex 1.

Information on *general allowances'* auctions is provided in section 1.1, and on *aviation allowances* in section 1.2 hereafter. Detailed information on the auctions held in the reporting period June 2015, including results per auction, is provided in Annex 2.

Please note that in all parts of this report monthly averages provided are weighted by each auction's auction volume, unless otherwise indicated.

¹ Iceland, Liechtenstein and Norway.

1.1. General allowances auctions

1.1.1. Clearing prices and participation - general allowances

An overview of the auction results for the *participating Member States* and Poland from April 2014 to June 2015 is provided in Table 1.

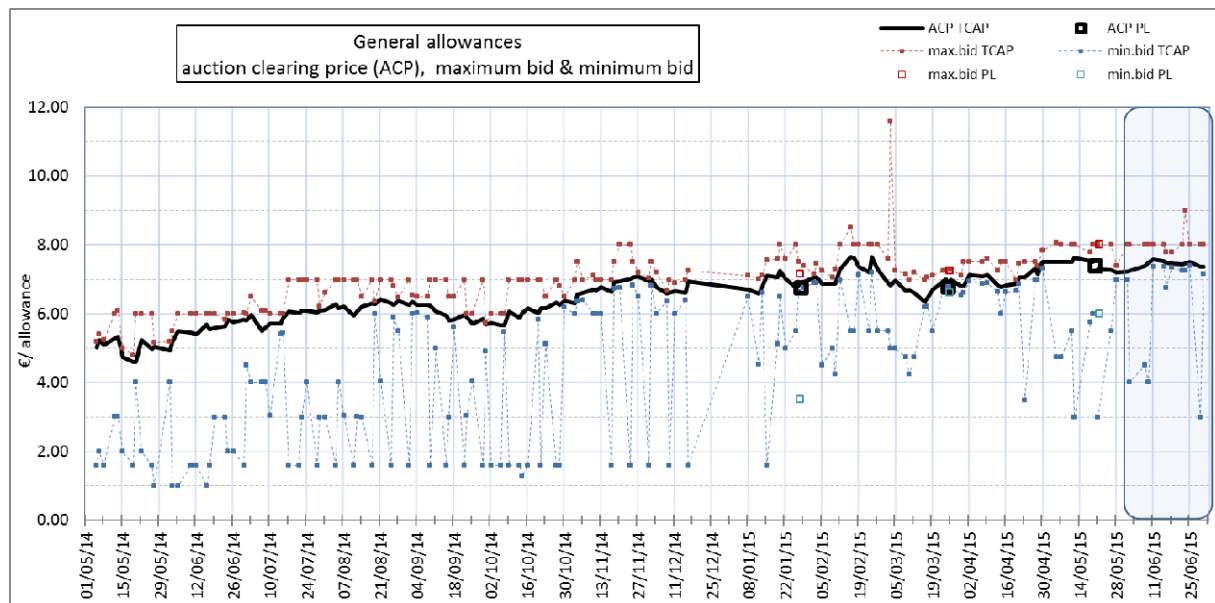
Table 1: General allowances - main statistics on the results of the auctions per month

Month	Total auction volume	Total bid volume	Total revenue (€)	Average Cover ratio ²	Average number of bidders	Average number of successful bidders	Average auction clearing price (€)
June 2015	37 934 000	117 971 500	281 645 360	3.1	16.8	12.3	7.42
May 2015	29 116 000	101 910 000	216 422 620	3.5	17.8	13.8	7.43
April 2015	35 016 000	83 493 500	247 358 860	2.4	19.5	15.2	7.06
March 2015	43 706 000	155 841 500	295 627 000	3.6	19.2	13.5	6.76
February 2015	35 016 000	140 319 500	253 340 760	4.0	17.8	13.3	7.24
January 2015	32 034 000	118 905 000	220 605 860	3.7	18.5	13.6	6.89
Dec. 2014	14 838 500	68 610 000	100 283 525	4.6	15.4	11.5	6.76
Nov. 2014	22 476 000	91 484 000	152 218 710	4.1	15.4	11.3	6.77
Oct. 2014	24 349 000	124 425 000	147 030 500	5.1	15.5	11.2	6.04
Sept. 2014	26 222 000	157 822 500	157 556 760	6.0	15.4	11.2	6.01
Aug. 2014	11 208 000	90 982 500	69 928 580	8.1	12.6	8.0	6.24
July 2014	26 222 000	140 375 000	154 934 560	5.4	14.8	10.9	5.91
June 2014	22 476 000	136 372 000	124 329 740	6.1	17.6	10.8	5.53
May 2014	20 766 500	133 689 500	104 208 535	6.4	17.4	11.7	5.02
April 2014	23 130 000	177 597 500	119 948 325	7.7	17.7	10.8	5.19
2014 total	335 052 000	1 796 711 000	1 977 712 120	5.4	17.6	11.9	5.90
2013 total	530 488 000	1 761 639 500	2 349 853 340	3.3	18.4	13.2	4.43

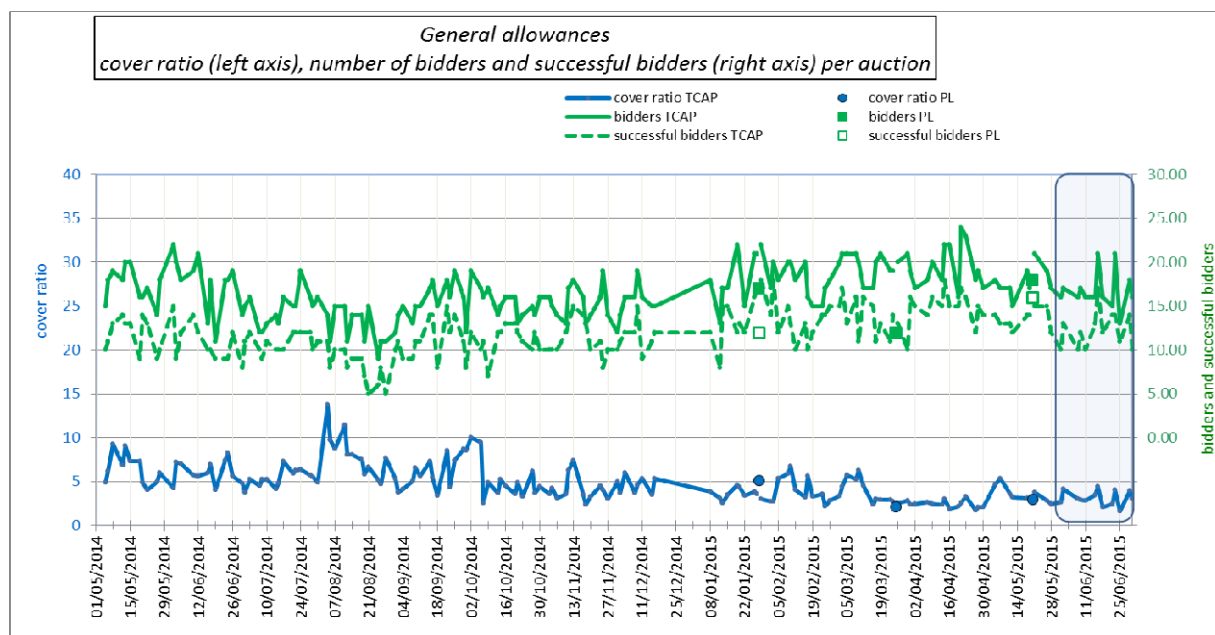
During June 2015, the difference between the Auction Clearing Prices and the mean of the *best-ask* and *best-bid* prices on the EEX *spot secondary market* for *general allowances* at the closure of the auction *bidding window* was on average EUR 0.00, and this difference had a standard deviation of EUR 0.02.

² Cover ratio is the ratio between the total bid volume and the auction volume.

Graph 1: General allowances - auction clearing price (ACP), maximum bid & minimum bid³



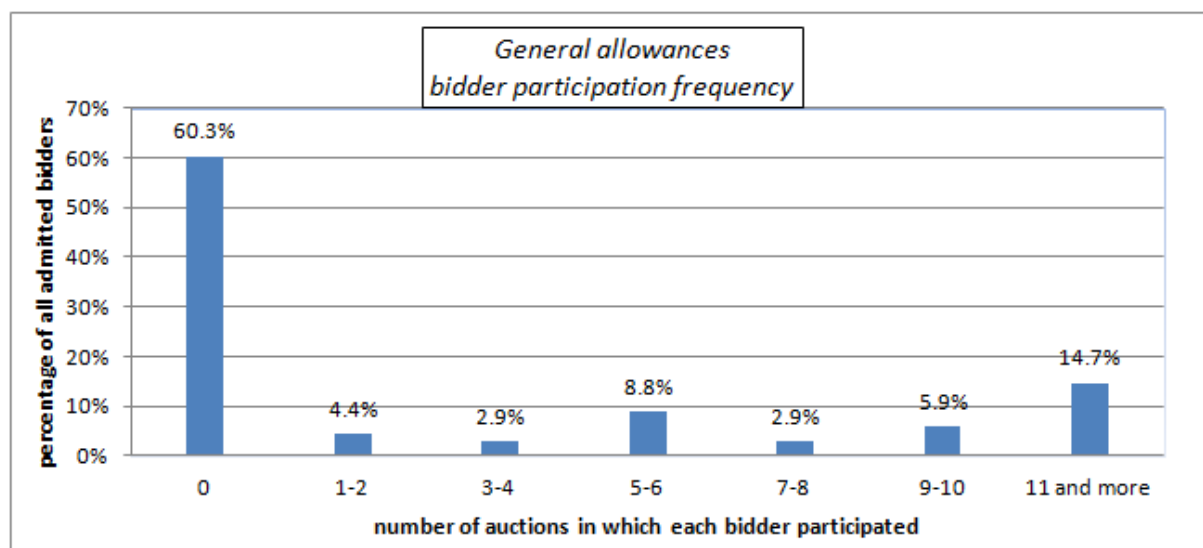
Graph 2: General allowances - cover ratio (left axis), number of bidders and successful bidders (right axis) per auction



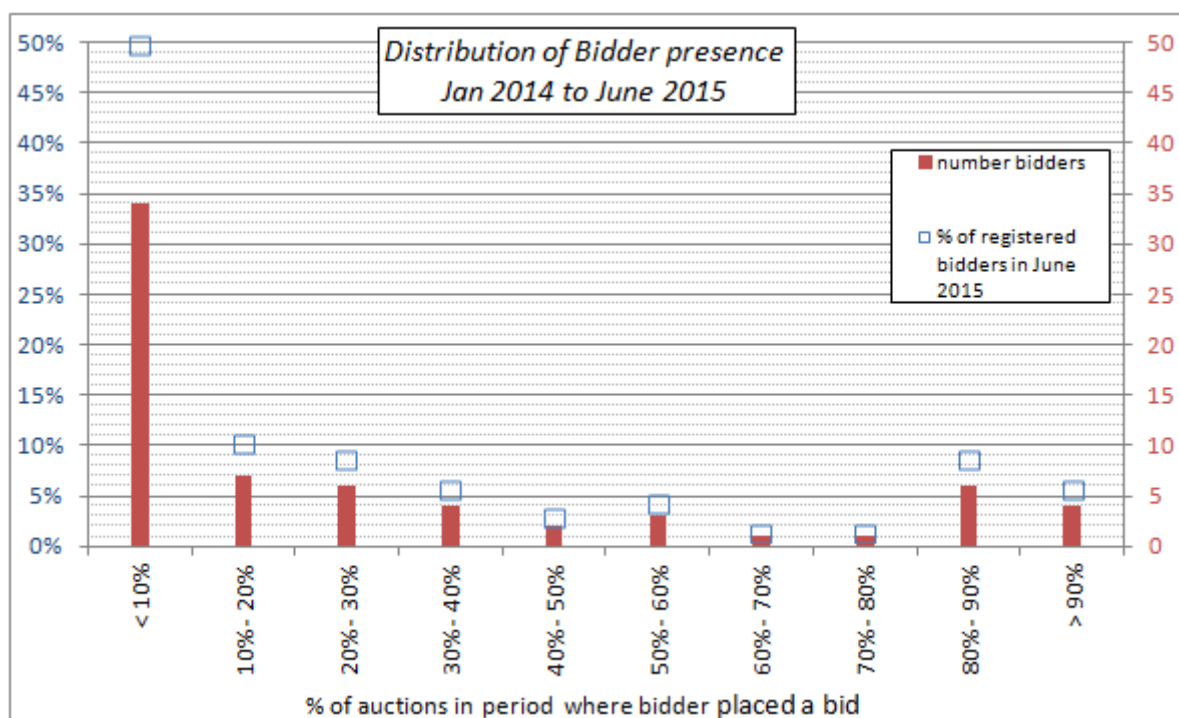
There were 68 eligible bidders in June 2015. Out of these, 27 different bidders participated in the auctions in June 2015. Graph 3 indicates the participation frequency in June 2015.

³ Auctions on behalf of Poland were held on the following days: 8/1/2014, 5/2/2014, 5/3/2014, 28/1/2015, 25/3/2015 and 20/5/2015.

Graph 3A: General allowances -bidder participation frequency in June 2015



Graph 3B: General allowances -bidder participation frequency from January 2014 to June 2015



1.1.2. Bidding behaviour - general allowances

Table 2 provides monthly data on the bids submitted from January 2014 to June 2015. See also Graph 4.

Table 2: General Allowances - monthly statistics on the submitted bids

Month	Nr of auctions	Nr of bidders ⁽¹⁾	Total volume of bids	Average total volume bid per bidder per auction ⁴	Average total volume bid per bidder per auction over the month ⁵	standard deviation of total volume bid per bidder per auction over the month ⁶	Total monthly nr of bids	Average nr. of bids per bidder per auction ⁷	Average bid size ⁸
June 2015	13	27	117 971 500	534 698	541 154	668 622	826	3.8 ⁺⁺	142 270
May 2015	10	29	101 910 000	576 652	572 528	1 126 584	619	3.5 ⁺⁺	170 179
April 2015	12	29	83 493 500	358 748	356 810	453 453	798	3.4 ⁺⁺	104 562
March 2015	15	29	155 841 500	539 041	541 116	997 195	1108	3.9 ⁺⁺	138 843
Feb 2015	12	27	140 319 500	656 261	655 699	1 209 247	756	3.5 ⁺⁺	184 555
Jan 2015	11	29	118 905 000	594 654	585 739	850 655	809	4.1 ⁺⁺	147 380
Dec 2014	8	26	68 610 000	565 380	557 805	880 324	541	4.5 ⁺⁺	138 240
Nov 2014	12	27	91 484 000	487 754	494 508	823 645	702	3.8 ⁺⁺	132 316
Oct 2014	13	27	124 425 000	607 052	615 965	1 099 893	1 079	5.3 ⁺⁺	113 863
Sept 2014	14	27	157 822 500	742 000	734 058	1 118 338	1162	5.4 ⁺⁺	135 602
Aug 2014	12	24	90 982 500	602 194	602 533	692 190	973	6.4 ⁺⁺	94 199
July 2014	14	28	140 375 000	681 909	678 140	828 292	1 269	6.2 ⁺⁺	112 032
June 2014	12	33	136 372 000	660 091	646 313	816 730	1 107	5.3 ⁺⁺	124 763
May 2014	11	33	133 689 500	694 972	699 945	866 444	1 104	5.9 ⁺⁺	121 290
April 2014	12	28	177 597 500	836 027	837 724	980 403	1 095	5.2 ⁺⁺	159 901
March 2014	14	31	280 163 000	1 193 513	1 148 209	1 702 509	1 306	5.4 ⁺⁺	227 677
Feb 2014	13	33	216 991 500	832 851	847 623	1 251 932	1 006	3.9 ⁺⁺	216 967
Jan 2014	12	33	178 198 500	690 216	677 561	980 028	941	3.6 ⁺⁺	191 935

++: indicates simple average

(1): Number of unique individual bidders or unique successful bidders present in a whole month

⁴ Monthly weighted average of the average bid volume per bidder in each auction (total bid volume in each auction divided by number of bidders participating in that auction), weighted by volume auctioned in each auction.

⁵ Average over the whole month of the volume bid by bidders each time they are present in an auction (computed as total volume bid for the month / sum over whole month of number of bidders present in each auction).

⁶ Standard deviation of total volume bid per bidder in each auction over the month.

⁷ Monthly simple average of the average number of bids per bidder in each auction (total number of bids in each auction divided by number of bidders participating in that auction).

⁸ Monthly weighted average of the average bid size per bidder in each auction (total bid volume in each auction divided by number of bids in that auction), weighted by volume auctioned in each auction.

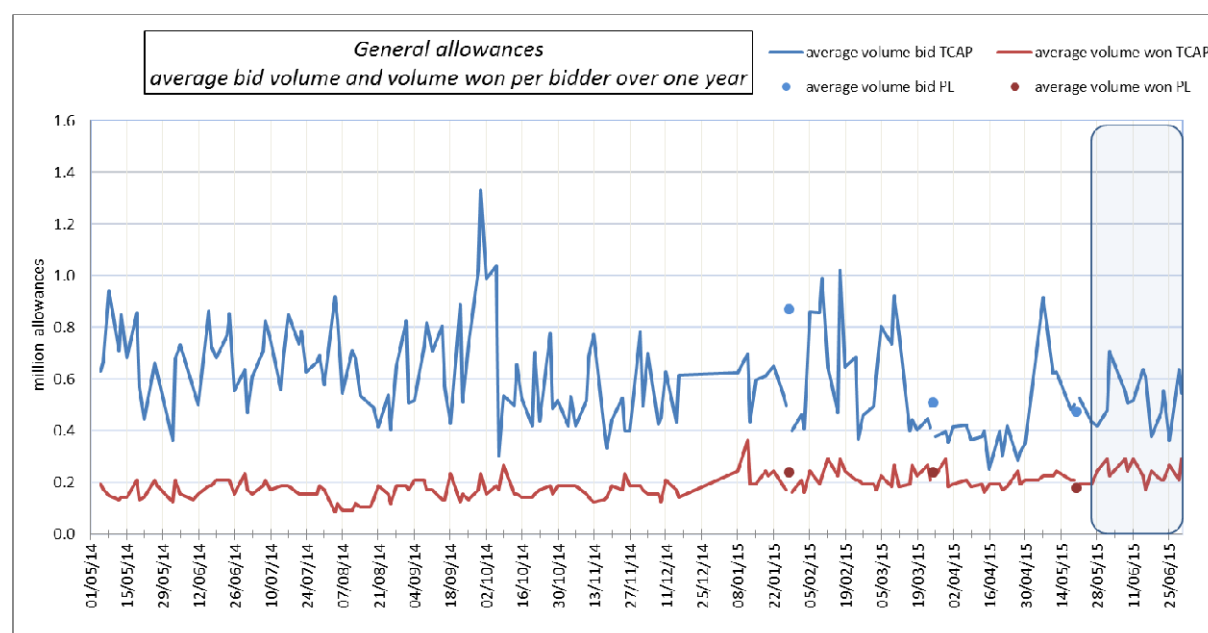
Table 3 provides monthly data on successful bids from January 2014 to June 2015. See also Graph 4.

Table 3: General Allowances - monthly statistics on successful bids

Month	Nr of auctions	Nr of successful bidders ⁽¹⁾	Total auction volume	Average volume won per bidder per auction ⁹	Average volume won per bidder per auction over the month ¹⁰	Standard deviation of volume won per bidder per auction over the month ¹¹	Total monthly nr of successful bids
June 2015	13	24	37 934 000	243 436	237 088	345 804	284
May 2015	10	28	29 116 000	212 874	210 986	232 455	267
April 2015	12	26	35 016 000	194 267	192 396	224 960	305
March 2015	15	29	43 706 000	220 982	215 300	270 467	362
Feb. 2015	12	24	35 016 000	224 610	218 850	227 190	256
Jan. 2015	11	25	32 034 000	223 767	213 560	238 463	249
Dec. 2014	8	25	14 838 500	164 821	161 288	182 952	172
Nov. 2014	12	23	22 476 000	170 316	165 265	173 792	206
Oct. 2014	13	23	24 349 000	172 199	167 924	189 785	308
Sept. 2014	14	22	26 222 000	173 941	167 019	207 239	295
Aug. 2014	12	18	11 208 000	124 351	116 750	131 148	169
July 2014	14	25	26 222 000	173 989	172 513	185 218	330
June 2014	12	29	22 476 000	180 673	174 233	194 252	212
May 2014	11	24	20 766 500	165 468	160 981	179 425	250
April 2014	12	25	23 130 000	186 447	177 923	223 208	196
March 2014	14	26	42 048 500	297 314	267 825	360 413	291
Feb. 2014	13	31	52 667 000	314 017	283 156	464 816	335
Jan. 2014	12	29	48 648 500	324 599	307 902	359 814	257

(1): Number of unique individual bidders or unique successful bidders present in a whole month

Graph 4: General allowances - average bid volume and volume won per bidder over one year¹²



⁹ Monthly weighted average of the average volume won per bidder in each auction (total volume won in each auction divided by the number of successful bidders in that auction), weighted by total bid volume in each auction.

¹⁰ Average over the whole month of the volume won per bidder each time they are successful in an auction (computed as total volume auctioned for the month / sum over whole month of number of bidders successful in each auction).

¹¹ Standard deviation of volume won per bidder in each auction over the month.

¹² Auctions on behalf of Poland were held on the following days: 8/1/2014, 5/2/2014, 5/3/2014, 28/1/2015 and 25/3/2015 and 20/5/2015.

1.1.3. Type of bidders - general allowances

In June 2015, almost all volume bid was done on own account, with only 0.24% of the volume submitted by intermediaries on behalf of a client. The shares in the total successful bid volume per bidder category are indicated in graph 5 and in table 4.

Graph 5: General allowances - distribution of successful won volume per bidder category over one year

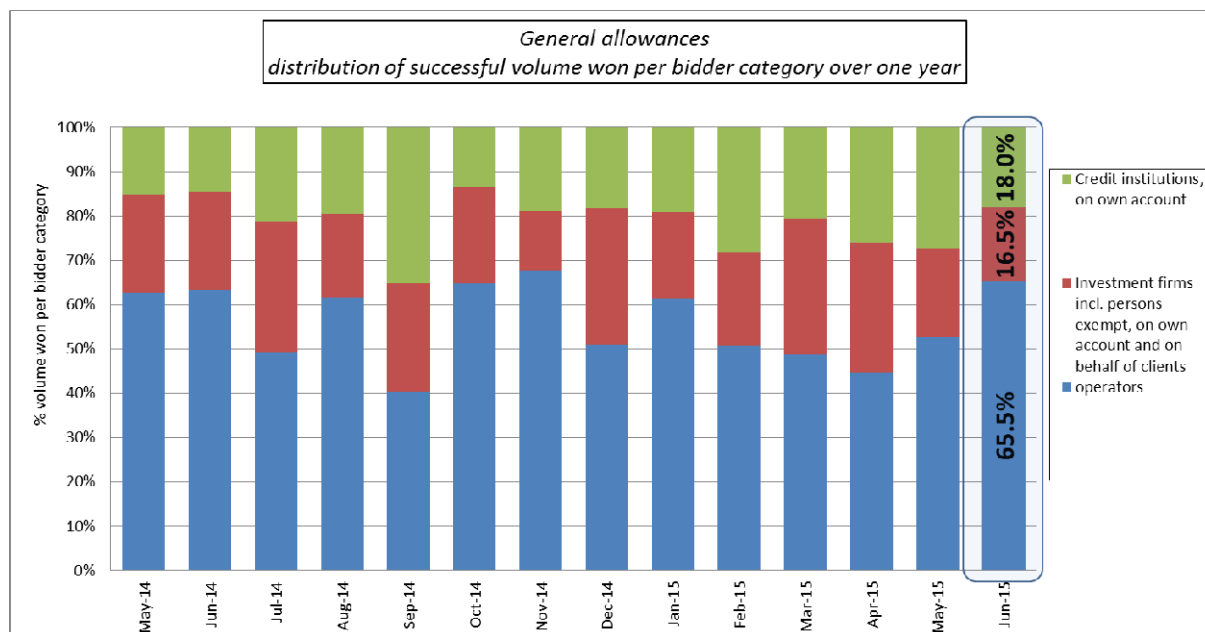


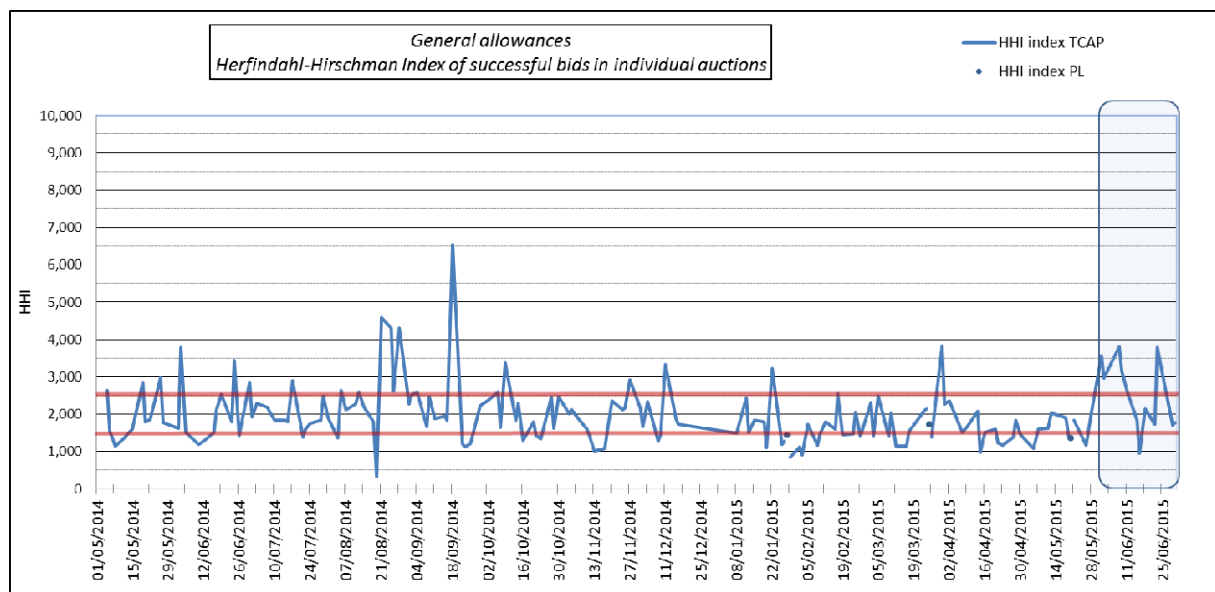
Table 4: General allowances – distribution of volume won per bidder category and their standard deviations

Month	% volume won coming from bidding on behalf of a client	Bidder category	% volume won	Standard deviation of % of volume won
June 2015	0.44%	Operators (including Business groupings)	65.5%	15.6% points
		Investment firms (including persons exempt)	16.5%	9.1% points
		Credit institutions	18.0%	13.2% points

1.1.4. Concentration - general allowances

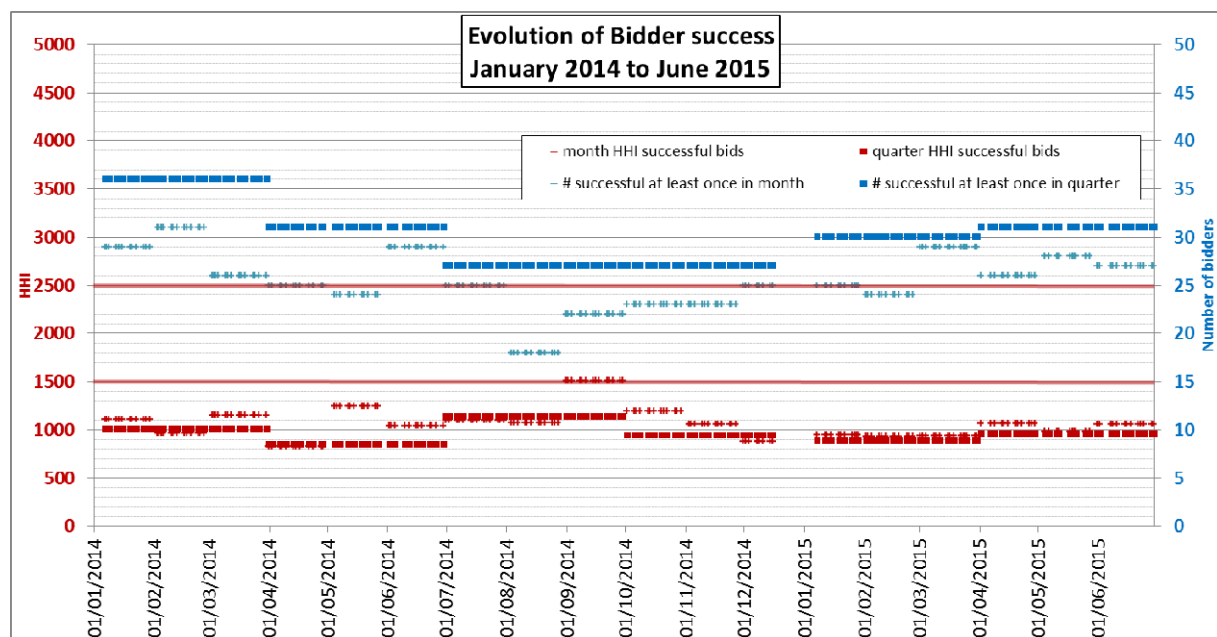
The Herfindahl-Hirschman Index (HHI) of successful bids is used to measure market concentration¹³. The HHI ranges from a value of 0 (perfect competition) to 10 000 (a single buyer). A common interpretation of the HHI is that a score below 1 500 is 'not-concentrated', between 1 500 and 2 500 is 'moderately concentrated,' and above 2 500 is 'highly concentrated' – these thresholds are indicated in Graphs 6 and 7. Graph 6 indicates the HHI of the individual auctions. Graph 7 indicates the monthly and quarterly HHI and successful bidder participation (number of bidders successful at least once in the period of interest) so as to show the variation over different periods, due to the turnover of participants in the auctions.

Graph 6: General allowances - Herfindahl-Hirschman Index of successful bids in individual auctions



¹³ The HHI is calculated as the sum of the squares of all successful bidders' shares (in % points) of the total auctioned volume over the period of interest.

Graph 7: General allowances - Herfindahl-Hirschman Index of successful bids and successful bidder participation at monthly and quarterly level



1.2 Aviation allowances auctions

The auctioning of *aviation allowances* restarted as of September 2014¹⁴. Pursuant to the published *auction calendar*, only *aviation allowances* for the calendar year 2012 were auctioned in 2014¹⁵; the *aviation allowances* for the calendar years 2013-2015 are auctioned in 2015, in accordance with the published 2015 *auction calendar*. Poland decided to aggregate the *aviation allowances* for the calendar years 2012 to 2015 in a single auction held in March 2015.

1.2.1 Clearing prices and participation – aviation allowances

An overview of the auction results from September 2014 to June 2015 is provided in Table 5.

No aviation allowances have been auctioned in June 2015.

Table 5: Aviation allowances – main statistics on the results of the auctions per month

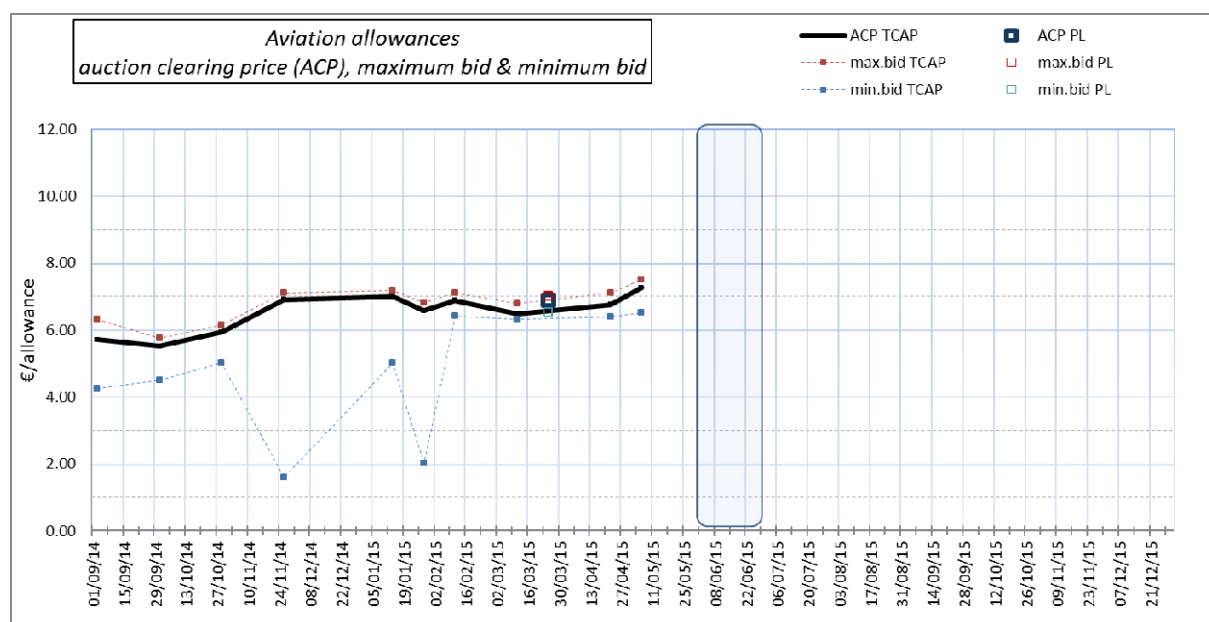
Month	Total auction volume	Total bid volume	Total revenue (€)	Average Cover ratio ¹⁶	Average number of bidders	Average number of successful bidders	Average auction clearing price (€)
June 2015	-	-	-	-	-	-	-
May 2015	935 000	2 008 000	6 778 750	2.2	11.0	6.0	7.25
April 2015	1 493 500	3 475 500	10 081 125	2.3	11.0	11.0	6.75
March 2015	1 927 500	6 016 500	12 663 600	3.1	11.0	6.7	6.57
February 2015	1 494 000	3 750 000	10 263 780	2.5	9.0	8.0	6.87
January 2015	2 988 000	11 244 000	20 243 700	3.8	11.5	9.0	6.78
Dec. 2014	-	-	-	-	-	-	-
Nov. 2014	1 641 500	7 665 500	11 326 350	4.7	14.0	7.0	6.90
Oct. 2014	3 286 000	14 685 000	18 763 060	4.5	13.5	8.0	5.71
Sept. 2014	1 643 000	5 851 000	9 365 100	3.6	11.0	9.0	5.70
2014 total	6 570 500	28 201 500	39 454 510	4.3	13.0	8.0	6.00

¹⁴ The auctions were suspended end 2012, see the Regulatory update published by the Commission on 16 November 2012 http://ec.europa.eu/clima/news/articles/news_2012111601_en.htm.

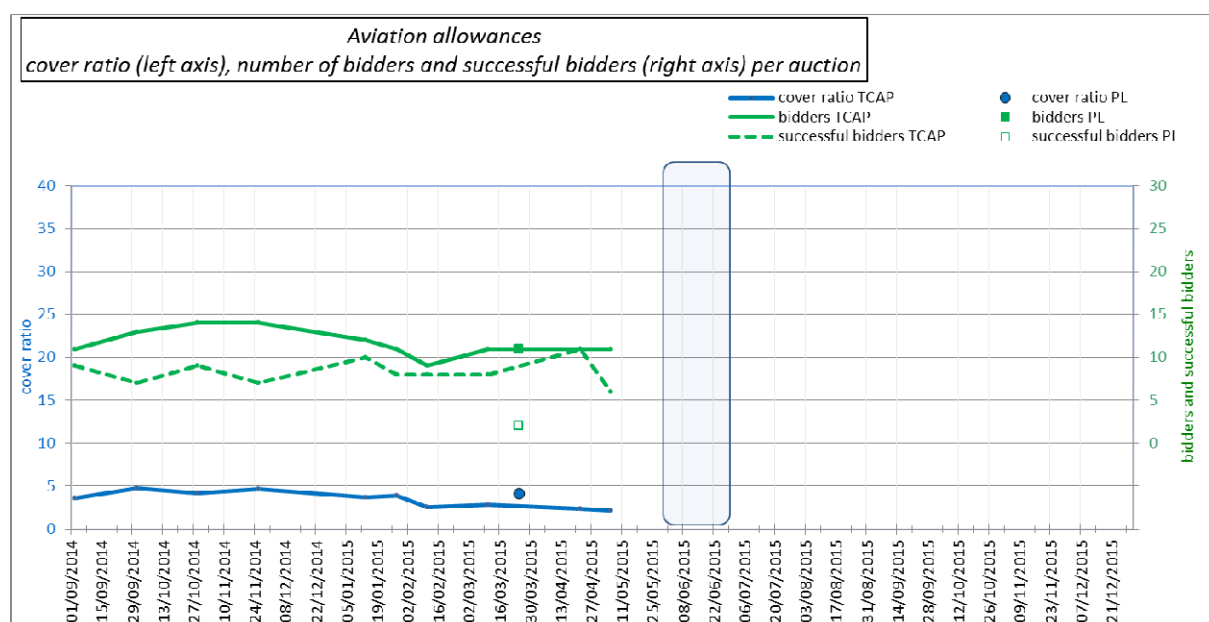
¹⁵ See also the regulatory update published by the Commission on 29 July 2014; http://ec.europa.eu/clima/news/articles/news_2014072901_en.htm.

¹⁶ The cover ratio is the ratio between the total bid volume and the auction volume.

Graph 8: Aviation allowances - auction clearing price (ACP) & maximum prices bid & minimum prices bid¹⁷



Graph 9: Aviation allowances - cover ratio (left axis), number of bidders and successful bidders (right axis) per auction



¹⁷ Auctions on behalf of Poland were held on the following days: 25/3/2015.

1.2.2 Bidding behaviour – aviation allowances

Table 6 provides monthly data on the bids submitted from January 2014 to June 2015. See also Graph 11.

No aviation allowances have been auctioned in June 2015.

Table 6: Aviation allowances – monthly statistics on the submitted bids

Month	Nr of auctions	Nr of bidders ⁽¹⁾	Total volume of bids	Average total volume bid per bidder per auction ¹⁸	Average total volume bid per bidder per auction over the month ¹⁹	standard deviation of total volume bid per bidder per auction over the month ²⁰	Total monthly nr of bids	Average nr. of bids per bidder per auction ²¹	Average bid size ²²
June 2015	-	-	-	-	-	-	-	-	-
May 2015	1	11	2 008 000	182 545	182 545	80 364	28	2.5 ⁺⁺	71 714
April 2015	1	11	3 475 500	315 955	315 955	400 818	35	3.2 ⁺⁺	99 300
March 2015	2	13	6 016 500	333 461	273 477	290 869	60	2.7 ⁺⁺	122 269
Feb. 2015	1	9	3 750 000	416 667	416 667	434 388	39	4.3 ⁺⁺	96 154
Jan. 2015	2	12	11 244 000	490 432	488 870	512 660	70	3.0 ⁺⁺	168 321
Dec. 2014	-	-	-	-	-	-	-	-	-
Nov. 2014	1	14	7 665 500	547 536	547 536	654 163	63	4.5 ⁺⁺	121 675
Oct. 2014	2	15	14 685 000	545 940	543 889	555 854	83	4.5 ⁺⁺	177 573
Sept. 2014	1	11	5 851 000	531 909	531 909	483 194	65	5.9 ⁺⁺	90 015

++: indicates simple average

(1): Number of unique individual bidders or unique successful bidders present in a whole month

¹⁸ Monthly weighted average of the average bid volume per bidder in each auction (total bid volume in each auction divided by number of bidders participating in that auction), weighted by volume auctioned in each auction.

¹⁹ Average over the whole month of the volume bid by bidders each time they are present in an auction (computed as total volume bid for the month / sum over the whole month of number of bidders present in each auction).

²⁰ Standard deviation of total volume bid per bidder in each auction over the month.

²¹ Monthly simple average of the average number of bids per bidder in each auction (total number of bids in each auction divided by number of bidders participating in that auction).

²² Monthly weighted average of the average bid size per bidder in each auction (total bid volume in each auction divided by number of bids in that auction), weighted by volume auctioned in each auction.

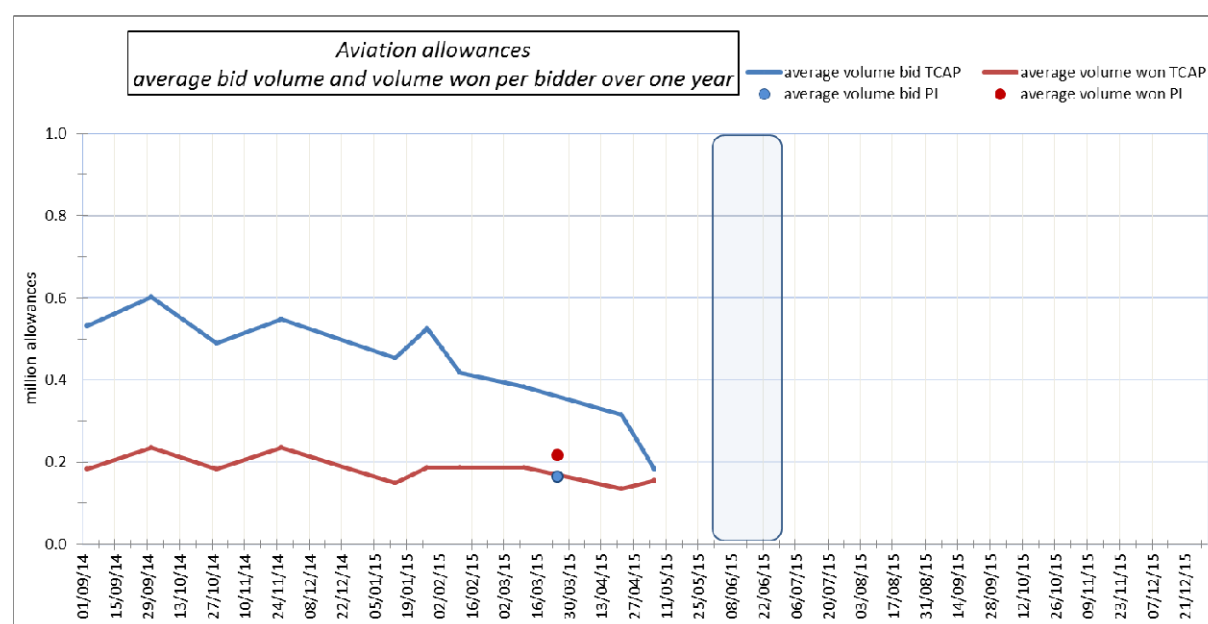
Table 7 provides monthly data on successful bids from January 2014 to June 2015. See also Graph 11. No aviation allowances have been auctioned in June 2015.

Table 7: Aviation Allowances – Monthly statistics on successful bids

Month	Nr of auctions	Nr of successful bidders ⁽¹⁾	Total auction volume	Average volume won per bidder per auction ²³	Average volume won per bidder per auction over the month ²⁴	Standard deviation of volume won per bidder per auction over the month ²⁵	Total monthly nr of successful bids
June 2015	-	-	-	-	-	-	-
May 2015	1	11	935 000	155 833	155 833	91 750	13
April 2015	1	11	1 493 500	135,773	135,773	132 536	20
March 2015	2	9	1 927 500	193 497	192 750	176 192	18
Feb. 2015	1	8	1 494 000	186 750	186 750	136 102	17
Jan. 2015	2	10	2 988 000	168 075	166 000	170 471	24
Dec. 2014	-	-	-	-	-	-	-
Nov. 2014	1	7	1 641 500	234 500	234 500	171 897	9
Oct. 2014	2	11	3 286 000	208 635	205 375	165 517	19
Sept. 2014	1	9	1 643 000	182 556	182 556	159 714	20

(1): Number of unique individual bidders or unique successful bidders present in a whole month

Graph 11: Aviation allowances - average bid volume and volume won per bidder over one year



²³ Monthly weighted average of the average volume won per bidder in each auction (total volume won in each auction divided by the number of successful bidders in that auction), weighted by total bid volume in each auction.

²⁴ Average over the whole month of the volume won per bidder each time they are successful in an auction (computed as total volume auctioned for the month / sum over the whole month of number of bidders present in each auction).

²⁵ Standard deviation of volume won per bidder in each auction over the month.

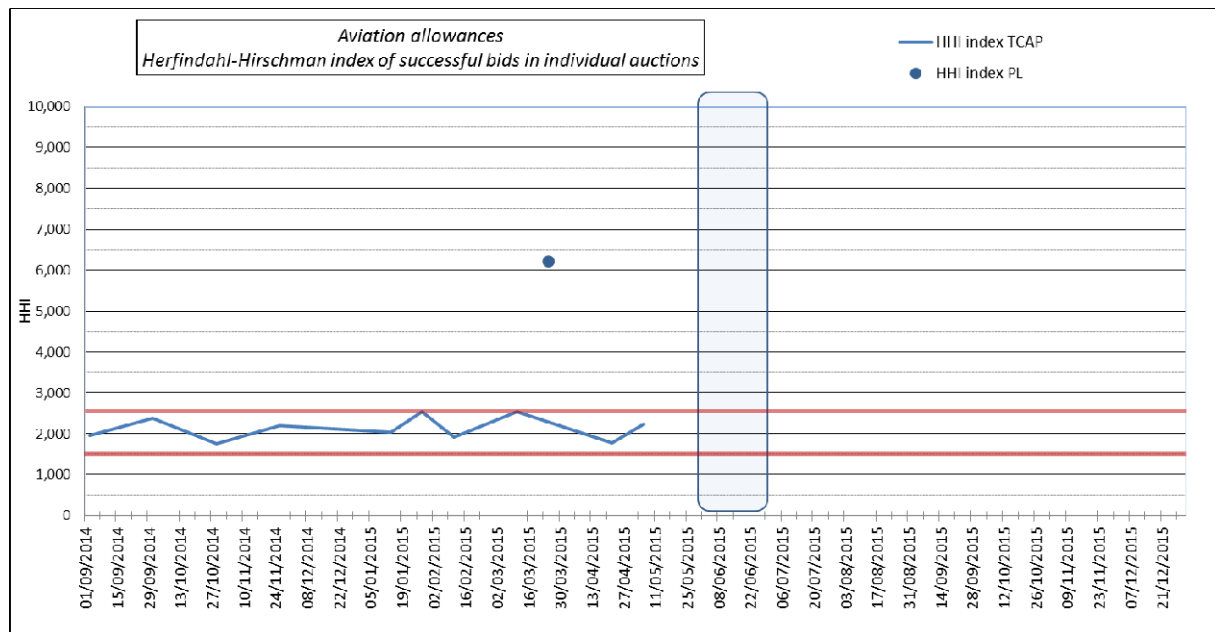
1.2.3 Type of bidders – aviation allowances

No aviation allowances have been auctioned in June 2015.

1.2.4 Concentration – aviation allowances

The HHI of successful bids is used to measure market concentration²⁶. The HHI ranges from a value of 0 (perfect competition) to 10 000 (a single buyer). A common interpretation of the HHI is that a score below 1 500 is 'not-concentrated', between 1 500 and 2 500 is 'moderately concentrated,' and above 2 500 is 'highly concentrated'. Graph 12 indicates the HHI of the individual auctions.

Graph 12: Aviation allowances - Herfindahl-Hirschman index of successful bids in individual auctions



²⁶ The HHI is calculated as the sum of the squares of all successful bidders' shares (in % points) of the total auctioned volume over the period of interest.

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*. Table 9 presents the number of eligible bidders under each category in June 2015

Most of the active participants in the secondary carbon market are assumed to also have been admitted to bid in the auctions²⁷.

Table 8: Eligible participants to the auctions in June 2015, by category

Number of participants	Operator		Investment firm	Credit Institution	Business grouping	Person exempt from MiFID requirements	Total
	Stationary	Aircraft					
Participants admitted to EEX's emissions <i>spot secondary market</i>							110
Participants eligible to bid in the auctions	47	1	10	4	0	6	68
(Of which:) Participants eligible to bid in the auctions on behalf of clients	-	-	1	2	-	1	4
(Of which:) Auction-only access	2	0	0	0	0	0	2

Throughout the period, EEX actively promoted the auctions in view of attracting bidders.

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

Transparency

The results for each auction were published in accordance with Article 61 of the *Auctioning Regulation*, not later than 15 minutes after the close of the *bidding window*.

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.

²⁷ This assessment is based on the auction participants' activity in EEX's secondary market and general market knowledge of EEX.

Other aspects

No problems or issues were identified as regards coordination of the auctions between the various auction platforms.

A new auctioneer was appointed by Greece in November 2014 and by Hungary in January 2015.

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.

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 publication: 01/10/2015

Glossary

Auction calendar	Document setting out the <i>bidding windows</i> , individual volumes and auction dates of the auctions in a given calendar year. See Articles 11, 13 and 32 of the <i>Auctioning Regulation</i> .
Auction Clearing Price	Price determined upon closure of the <i>bidding window</i> .
Auction-only access	Access to the auctions without becoming a member of or participant in other markets organised by the auction platform.
Auctioning Regulation	Commission Regulation (EU) No 1031/2010 — Timing, administration and other aspects of auctioning of greenhouse gas emission allowances pursuant to Directive 2003/87/EC of the European Parliament and of the Council establishing a scheme for greenhouse gas emission allowances trading within the Community, Official Journal L 302, 18.11.2010, p. 1, as subsequently amended. See: http://ec.europa.eu/clima/policies/ets/cap/auctioning/documentation_en.htm .
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 <i>Auctioning Regulation</i> .
Back-loading	Proposal by the Commission to postpone, as a short-term measure, the auctioning of 900 million allowances from the years 2013-2015 until 2019-2020. See: http://ec.europa.eu/clima/policies/ets/reform/index_en.htm .
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 <i>Auctioning Regulation</i> .
Bidding window	Time during which bidders can submit bids. See Article 8(1) of the <i>Auctioning Regulation</i> .
Clearing	Processes preceding the opening of the <i>Bidding window</i> , during the <i>Bidding window</i> and following the closure of the <i>Bidding window</i> until <i>Settlement</i> , involving the management of any risks arising during that interval including margining, netting or novation or any other services carried out possibly by a <i>Clearing</i> or <i>Settlement</i> system. See Article 3(31) of the <i>Auctioning Regulation</i> .
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).
ETS Directive	Directive 2003/87/EC of the European Parliament and of the Council of 13 October 2003 establishing a scheme for greenhouse gas emission allowance trading within the Community and amending Council Directive

96/61/EC, OJ L 275, 25.10.2003, p. 32, as subsequently amended. See: http://ec.europa.eu/clima/policies/ets/documentation_en.htm.

General Allowance	Allowance to emit one tonne of CO ₂ -equivalent, see Article 3(a) of the <i>ETS Directive</i> , also referred to as <i>EUA</i> .
Aviation Allowance	Allowance to emit one tonne of CO ₂ -equivalent that can be used by aircraft operators, also referred to as <i>EUA</i> . See Article 12(2a) and (3) of the <i>ETS Directive</i> .
Investment firms	Investment firms as defined in EU financial markets legislation (point (1) of Article 4(1) of Directive 2004/39/EC).
Market abuse	Insider dealing and market manipulation. See Article 36 of the <i>Auctioning Regulation</i> and Article 1 of Directive 2003/6/EC ('Market Abuse 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 <i>Auctioning Regulation</i> .
Persons exempt from MiFID	Natural or legal 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 <i>Auctioning Regulation</i> to bid for allowances in the auctions. See Article 18(2) of the <i>Auctioning Regulation</i> .
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', consisting of the auctions of allowances.
Settlement	Payment on delivery of the allowances. See Article 3(34) of the <i>Auctioning Regulation</i> .
Spot secondary market	<i>Secondary market</i> for allowances with delivery within 5 days from the transaction.
Transitional common auction platform	Auction platform appointed pursuant to Article 26(2) of the <i>Auctioning Regulation</i> , also referred to as <i>TCAP</i> .
Third trading period	The period 2013-2020, including the allowances referred to in Article 10(1) of the <i>Auctioning Regulation</i> auctioned in 2012. Allowances are valid during a given period without distinction as regards the year within that period. See Article 13 of the <i>ETS Directive</i> .

Annex 1 Auction revenues per Member State until June 2015 (reported in euros)

(The data used in this annex can also be obtained directly from the EEX website.)

	General Allowances		Aviation Allowances		All Allowances
	November 2012 to May 2015	June 2015	November 2012 to May 2015	June 2015	November 2012 to June 2015
Austria	148 735 425	7 142 480	2 887 480	0	158 765 385
Belgium	263 919 790	12 933 680	4 000 125	0	280 853 595
Bulgaria	158 018 945	11 292 840	881 630	0	170 193 415
Croatia	33 384 260	8 011 160	326 700	0	41 722 120
Cyprus	2 359 150	0	1 330 260	0	3 689 410
Czech Republic	178 563 720	10 231 120	1 332 055	0	190 126 895
Denmark	130 597 120	6 370 320	3 124 960	0	140 092 400
Estonia	33 527 075	1 930 400	149 765	0	35 607 240
Finland	178 324 060	8 493 760	2 353 980	0	189 171 800
France	584 649 985	27 990 800	18 867 730	0	631 508 515
Greece	366 454 305	17 759 680	4 709 020	0	388 923 005
Hungary	126 566 180	7 625 080	1 007 840	0	135 199 100
Ireland	96 496 105	4 729 480	2 422 395	0	103 647 980
Italy	1 028 858 735	49 225 200	15 676 210	0	1 093 760 145
Latvia	28 635 735	1 351 280	524 045	0	30 511 060
Lithuania	51 405 215	2 606 040	261 890	0	54 273 145
Luxemburg	12 646 285	579 120	797 895	0	14 023 300
Malta	10 564 390	482 600	513 680	0	11 560 670
The Netherlands	357 075 195	17 180 560	8 137 410	0	382 393 165
Poland	381 708 595	0	2 982 480	0	384 691 075
Portugal	186 662 330	8 976 360	3 360 185	0	198 998 875
Romania	335 228 110	18 049 240	1 476 480	0	354 753 830
Slovak Republic	164 066 355	7 818 120	186 940	0	172 071 415
Slovenia	47 095 540	2 219 960	149 990	0	49 465 490
Spain	921 991 400	44 109 640	18 371 585	0	984 472 625
Sweden	94 987 765	4 536 440	3 652 735	0	103 176 940
TOTAL	5 922 521 770	281 645 360	99 485 465	0	6 303 652 595

Annex 2 Results of individual auctions on behalf of *participating Member States* and Poland in June 2015

(The data used in the highlighted subsection of the tables presented in this annex can also be obtained directly from the EEX website.)

General Allowances - June 2015																			
Date	Auction Clearing Price	Minimum Bid price	Maximum Bid price	Mean Bid price	Median Bid price	Total Auction Volume	Total Bid Volume	Cover ratio	Nr of Bidders	Nr of Successful Bidders	Total Revenue	Nr of Bids	Nr of Successful Bids	Avg nr of bids per bidder	Average bid size	Avg total volume bid per bidder	standard deviation of total volume bid per bidder	Average volume won per bidder	Standard deviation of volume won per bidder
1 /6 /2015	7.23	7.00	8.00	7.24	7.21	2 918 000	7 653 000	2.6	16	10	21 097 140	49	20	3.1	156 184	478 313	626 041	291 800	467 992
2 /6 /2015	7.26	4.00	8.00	6.81	7.22	2 918 000	12 000 500	4.1	17	13	21 184 680	60	20	3.5	200 008	705 912	861 650	224 462	378 718
8 /6 /2015	7.38	4.50	8.00	7.20	7.33	2 918 000	8 845 000	3.0	16	10	21 534 840	69	15	4.3	128 188	552 813	567 270	291 800	488 996
9 /6 /2015	7.48	4.00	8.00	7.30	7.46	2 918 000	8 616 000	3.0	17	12	21 826 640	64	18	3.8	134 625	506 824	537 923	243 167	405 861
11 /6 /2015	7.58	7.36	8.00	7.54	7.54	2 918 000	8 265 000	2.8	16	10	22 118 440	59	14	3.7	140 085	516 563	593 982	291 800	369 042
15 /6 /2015	7.54	7.36	8.00	7.53	7.53	2 918 000	10 185 000	3.5	16	13	22 001 720	62	20	3.9	164 274	636 563	779 743	224 462	265 345
16 /6 /2015	7.48	6.75	7.80	7.44	7.46	2 918 000	12 787 000	4.4	21	17	21 826 640	76	31	3.6	168 250	608 905	849 532	171 647	134 941
18 /6 /2015	7.45	7.35	7.80	7.46	7.45	2 918 000	6 020 000	2.1	16	12	21 739 100	52	26	3.3	115 769	376 250	389 894	243 167	303 425
22 /6 /2015	7.43	7.24	8.00	7.44	7.43	2 918 000	7 027 500	2.4	15	14	21 680 740	62	30	4.1	113 347	468 500	498 718	208 429	247 944
23 /6 /2015	7.45	7.24	9.00	7.46	7.43	2 918 000	11 664 500	4.00	21	14	21 739 100	79	25	3.8	147 652	555 452	756 686	208 429	432 410
25 /6 /2015	7.52	7.38	8.00	7.57	7.53	2 918 000	4 706 500	1.6	13	11	21 943 360	39	24	3.0	120 679	362 038	510 455	265 273	403 095
29 /6 /2015	7.36	3.00	8.00	7.31	7.34	2 918 000	11 469 500	3.9	18	14	21 476 480	78	23	4.3	147 045	637 194	720 910	208 429	246 339
30 /6 /2015	7.36	7.16	8.00	7.38	7.35	2 918 000	8 732 000	3.000	16	10	21 476 480	77	22	4.8	113 403	545 750	566 749	291 800	257 421
Monthly Value	-	-	-	-	-	37 934 000	117 971 500	-	27 ⁽¹⁾	24 ⁽¹⁾	281 645 360	826	284	3.8 ⁽²⁾	142 823 ⁽³⁾	541 154 ⁽⁴⁾	668 622 ⁽⁵⁾	237 088 ⁽⁶⁾	345 804 ⁽⁷⁾
Monthly minimum	7.23	3.00	7.80	-	-	2 918 000	4 706 500	1.6	13	10	21 097 140	39	14	3.0	113 347	362 038	-	171 647	-
Monthly average	7.42	6.18	8.05	7.36 ⁺⁺	-	2 918 000 ⁺⁺	9 074 731	3.1	16.8	12.3	21 665 028 ⁺⁺	63.5	22.2	3.8 ⁺⁺	142 270	534 698	-	243 436	-
Monthly maximum	7.58	7.38	9.00	-	-	2 918 000	12 787 000	4.4	21	17	22 118 440	79	31	4.8	200 008	705 912	-	291 800	-

Note: volume variables reported in tCO₂, monetary variables reported in €

(1): Number of unique individual bidders or unique successful bidders present in a whole month. (2): Average number of bids submitted over the whole month by each bidder in each auction. Computed as total number of bids for the month / sum over whole month of number of bidders present in each auction. (3): Average size of all bids submitted in all auctions over the month. Computed as total bid volume for the month / number of bids for the month. (4): Average over the whole month of the volume bid by bidders each time they are present in an auction. Computed as total volume bid for the month / sum over whole month of number of bidders present in each auction. (5): Standard deviation of the total volume bid, by each bidder in each auction, over the whole month. (6): Average over the whole month of the volume won by bidders each time they are successful in an auction. Computed as total auction volume for the month / sum over whole month of number of bidders successful in each auction. (7): Standard deviation of the total volume won by each bidder in each auction, over the whole month.

++: indicates simple average

Aviation Allowances – June 2015																			
Date	Auction Clearing Price	Minimum Bid price	Maximum Bid price	Mean Bid price	Median Bid price	Total Auction Volume	Total Bid Volume	Cover ratio	Nr of Bidders	Nr of Successful Bidders	Total Revenue	Nr of Bids	Nr of Successful Bids	Avg nr of bids per bidder	Average bid size	Avg total volume bid per bidder	standard deviation of total volume bid per bidder	Average volume won per bidder	Standard deviation of volume won per bidder
-																			
Monthly Value	-	-	-	-	-			-	(1)	(1)				(2)	(3)	(4)	(5)	(6)	(7)
Monthly minimum				-	-												-		-
Monthly average				++	-	++					++			++			-		-
Monthly maximum				-	-												-		-

Note: volume variables reported in tCO₂, monetary variables reported in €

(1): Number of unique individual bidders or unique successful bidders present in a whole month. (2): Average number of bids submitted over the whole month by each bidder in each auction. Computed as total number of bids for the month / sum over whole month of number of bidders present in each auction. (3): Average size of all bids submitted in all auctions over the month. Computed as total bid volume for the month / number of bids for the month. (4): Average over the whole month of the volume bid by bidders each time they are present in an auction. Computed as total volume bid for the month / sum over whole month of number of bidders present in each auction. (5): Standard deviation of the total volume bid, by each bidder in each auction, over the whole month. (6): Average over the whole month of the volume won by bidders each time they are successful in an auction. Computed as total auction volume for the month / sum over whole month of number of bidders successful in each auction. (7): Standard deviation of the total volume won by each bidder in each auction, over the whole month.

++: indicates simple average

The data for previous auctions can be downloaded from EEX's website: <https://www.eex.com/en/market-data/emission-allowances/auction-market/european-emission-allowances-auction/european-emission-allowances-auction-download>

