



AUCTIONS BY THE TRANSITIONAL COMMON AUCTION PLATFORM

The world's largest auctioning of emissions allowances

July 2016

Auctions by the *Transitional Common Auction Platform*

July 2016

Auction platform: European Energy Exchange (EEX)

Auction dates/reporting period:

General Allowances:

4, 5, 7, 11, 12, 14, 18, 19, 20(PL)¹, 21, 25, 26, 28 July 2016;

Aviation Allowances:

6 July 2016

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 2 billion 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 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

¹ Auctions conducted by EEX for Poland.

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 July 2016. In that period, EEX, in its capacity as the common auction platform, auctioned a total of 41 100 000 *general allowances* in 12 auctions for the *third trading period* and 683 500 *aviation allowances* in one auction on behalf of those EU Member States (*participating Member States*) that participate in the *Transitional Common Auction Platform (TCAP)*. During this period EEX held one auction on behalf of Poland for 4 407 500 *general allowances*.

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 July 2016 auctions at a glance:

	General Allowances July	Aviation Allowances July
General		
Number of auctions	13	1
Total volume auctioned	45 507 500	683 500
Amount raised from the auctions (€)	212 877 125	3 068 915
Average Auction Clearing Price (€/allowance)	4.68	4.49
Total bid volume	103 410 500	2 539 000
Average <i>Cover ratio</i>	2.3	3.7
Participation		
Number of eligible bidders	68	68
Number of participating bidders ⁽¹⁾	28	10
Number of successful bidders ⁽¹⁾	28	4
Average number of bidders per auction	18.1	10.0
Average number of successful bidders per auction	12.2	4.0
Auction data		
Average total volume bid per bidder per auction	448 920	253 900
Average bid size (volume per bid)	107 529	101 560
Average volume won per bidder per auction	305 955	170 875
Average range of bids (€)	1.97	0.50

(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 May 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)² 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 July 2016 are EUR 9 467 971 805. 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 July 2016 are EUR 136 722 835. 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 July 2016, 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.

² 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 July 2015 to July 2016 is provided in Table 1.

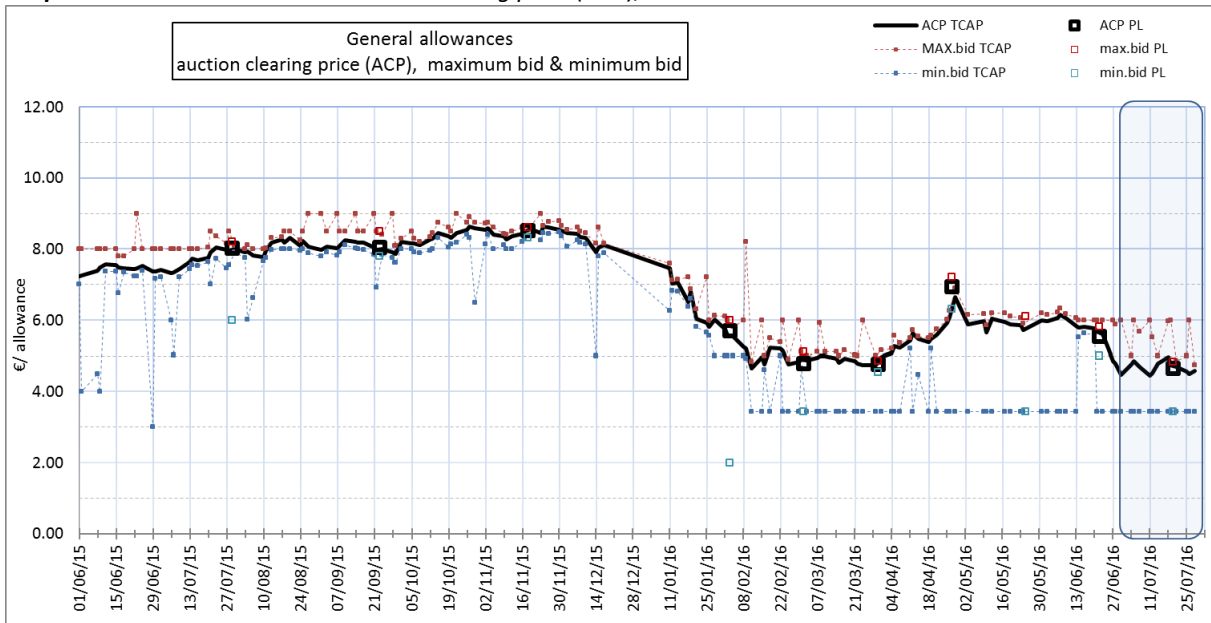
Table 1: General allowances - main statistics on the results of the auctions per month

Month	Total auction volume	Total bid volume	Total revenue (€)	Average Cover ratio ³	Average number of bidders	Average number of successful bidders	Average auction clearing price (€)
July 2016	45 507 500	103 410 500	212 877 125	2.3	18.1	12.2	4.68
June 2016	48 932 500	119 140 000	273 801 625	2.4	19.2	13.2	5.60
May 2016	30 825 000	56 918 000	181 251 000	1.8	16.8	13.0	5.88
April 2016	44 626 000	93 734 000	254 493 440	2.1	18.8	13.0	5.70
March 2016	51 577 000	117 768 000	251 299 820	2.3	20.7	14.8	4.87
February 2016	48 051 000	106 282 000	249 230 700	2.2	22.7	17.2	5.19
January 2016	30 825 000	74 934 000	200 910 500	2.4	21.6	14.1	6.52
December 2015	23 244 500	64 626 500	192 130 220	2.8	18.9	14.1	8.27
November 2015	40 789 500	130 488 000	346 009 805	3.2	19.6	13.1	8.48
October 2015	37 934 000	116 213 500	316 690 540	3.1	19.7	13.4	8.35
September 2015	40 788 000	126 790 000	328 635 840	3.1	18.7	14.3	8.06
August 2015	17 508 000	65 808 500	141 085 300	3.8	15.4	9.3	8.06
July 2015	40 788 000	114 643 000	315 388 760	2.8	16.5	11.9	7.73
2015 total	413 874 000	1 337 010 500	3 154 940 925	3.2	18.3	13.3	7.62
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

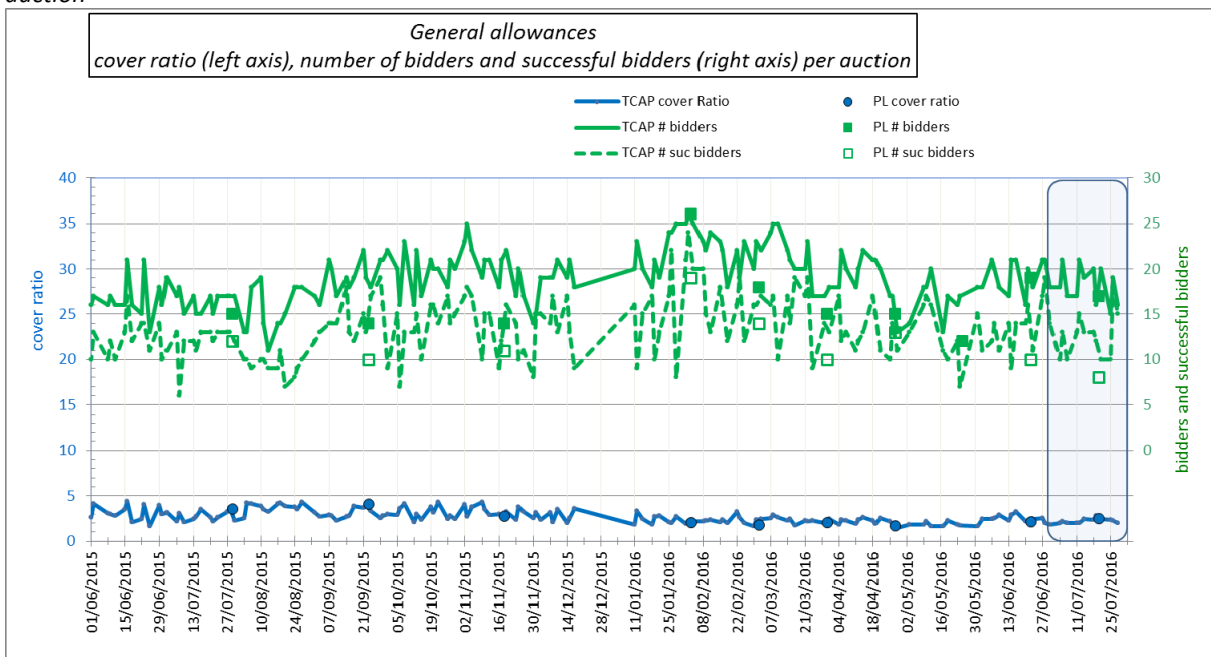
During July 2016, the difference between the Auction Clearing Prices and the mean of the *best-ask* and *best-bid* prices on the EEX *spot secondary market* for *general allowances* at the closure of the auction *bidding window* was on average EUR 0.00, and this difference had a standard deviation of EUR 0.02.

³ 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 bid⁴



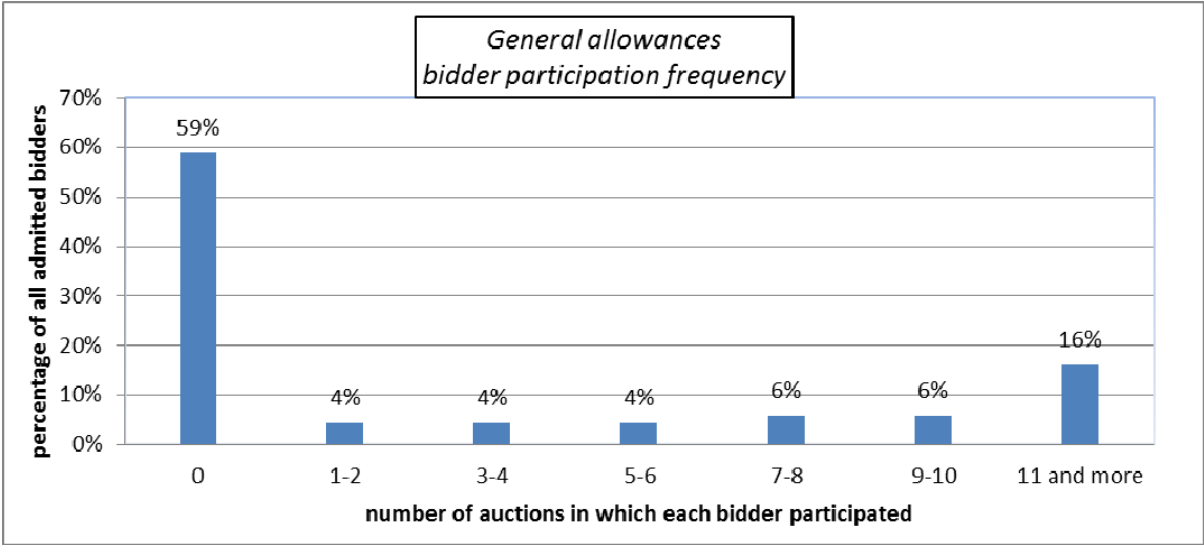
Graph 2: General allowances - cover ratio (left axis), number of bidders and successful bidders (right axis) per auction



There were 68 eligible bidders in July 2016. Out of these, 28 different bidders participated in the auctions in July 2016. Graph 3A indicates the participation frequency in July 2016.

⁴ Auctions on behalf of Poland were held on the following days: 20/5/2015, 29/7/2015, 23/9/2015, 18/11/2015, 3/2/2016, 2/3/2016, 30/3/2016, 27/4/2016, 25/5/2016, 22/6/2016 and 20/7/2016.

Graph 3A: General allowances -bidder participation frequency in July 2016



1.1.2. Bidding behaviour - general allowances

Table 2 provides monthly data on the bids submitted from July 2015 to July 2016. 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 ⁵	Average total volume bid per bidder per auction over the month ⁶	standard deviation of total volume bid per bidder per auction over the month ⁷	Total monthly nr of bids	Average nr. of bids per bidder per auction ⁸	Average bid size ⁹
July 2016	13	28	103 410 500	443 747	438 180	493 818	970	4.1 ⁺⁺	107 529
June 2016	14	29	119 140 000	445 334	442 900	537 011	979	3.7 ⁺⁺	121 595
May 2016	9	28	56 918 000	382 049	376 940	435 872	507	3.4 ⁺⁺	113 975
April 2016	13	29	93 734 000	384 877	384 156	468 364	850	3.5 ⁺⁺	111 049
March 2016	15	35	117 768 000	384 552	379 897	457 186	1147	3.7 ⁺⁺	105 729
February 2016	14	30	106 282 000	338 333	334 220	461 502	1104	3.5 ⁺⁺	98 299
January 2016	9	32	74 394 000	386 086	383 474	547 998	692	3.6 ⁺⁺	110 917
December 2015	8	31	64 626 500	433 690	427 990	543 279	538	3.6 ⁺⁺	119 573
November 2015	14	30	130 488 000	483 238	476 234	628 078	923	3.4 ⁺⁺	142 930
October 2015	13	32	116 213 500	455 083	453 959	576 354	862	3.4 ⁺⁺	134 450
September 2015	14	30	126 790 000	492 634	483 931	641 235	917	3.5 ⁺⁺	138 422
August 2015	12	27	65 808 500	362 597	355 722	410 715	630	3.5 ⁺⁺	104 910
July 2015	14	29	114 643 000	498 144	496 290	590 569	932	4.1 ⁺⁺	122 445

++: indicates simple average

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

⁵ 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.

⁶ 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).

⁷ Standard deviation of total volume bid per bidder in each auction over the month.

⁸ 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).

⁹ 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.

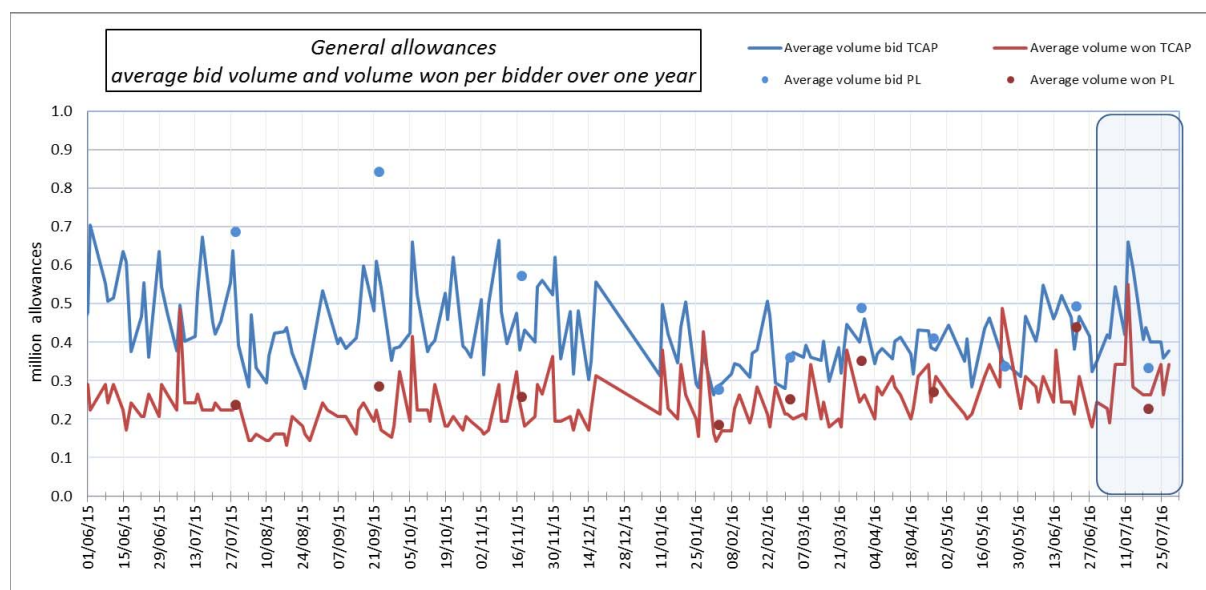
Table 3 provides monthly data on successful bids from July 2015 to July 2016. See also Graph 4.

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 ¹⁰	Average volume won per bidder over the month ¹¹	Standard deviation of volume won per bidder per auction over the month ¹²	Total monthly nr of successful bids
July 2016	13	28	45 507 500	305 955	284 422	328 532	262
June 2016	14	29	48 932 500	279 016	263 078	300 660	326
May 2016	9	26	30 825 000	283 328	263 462	292 574	256
April 2016	13	24	44 626 000	270 885	264 059	255 486	287
March 2016	15	31	51 577 000	245 210	232 329	256 557	416
February 2015	14	27	48 051 000	207 756	199 382	213 657	468
January 2016	9	30	30 825 000	268 407	242 717	293 170	264
December 2015	8	29	23 244 500	212 431	205 704	218 453	219
November 2015	14	26	40 789 500	237 529	222 893	253 845	311
October 2015	13	26	37 934 000	232 204	218 011	244 823	302
September 2015	14	27	40 788 000	209 499	203 940	218 967	378
August 2015	12	23	17 508 000	158 449	156 321	187 135	173
July 2015	14	24	40 788 000	255 324	245 711	314 528	334

(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 year¹³



¹⁰ 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 volume auctioned in each auction.

¹¹ 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).

¹² Standard deviation of volume won per bidder in each auction over the month.

¹³ Auctions on behalf of Poland were held on the following days: 20/5/2015, 29/7/2015, 23/9/2015, 18/11/2015, 3/2/2016, 2/3/2016, 30/3/2016, 27/4/2016, 25/5/2016, 22/6/2016 and 20/7/2016.

1.1.3. Type of bidders - general allowances

In July 2016, almost all volume bid was done on own account, with 1.81% of the volume submitted by intermediaries on behalf of a client¹⁴. 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

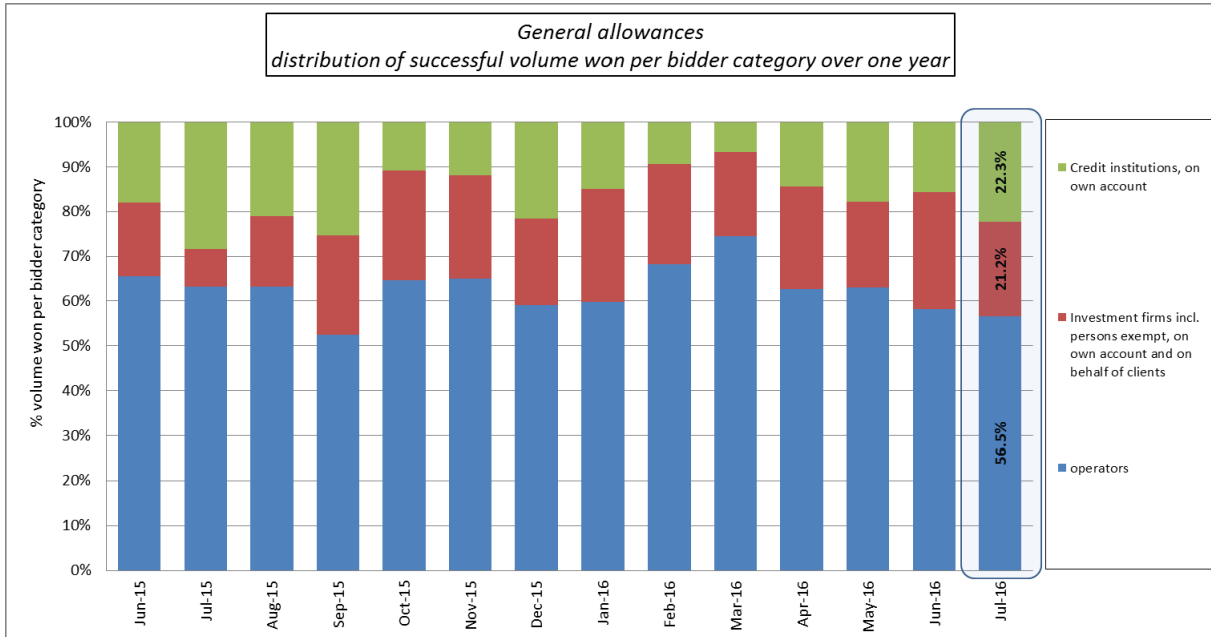


Table 4: General allowances – distribution of volume won per bidder category and their standard deviations

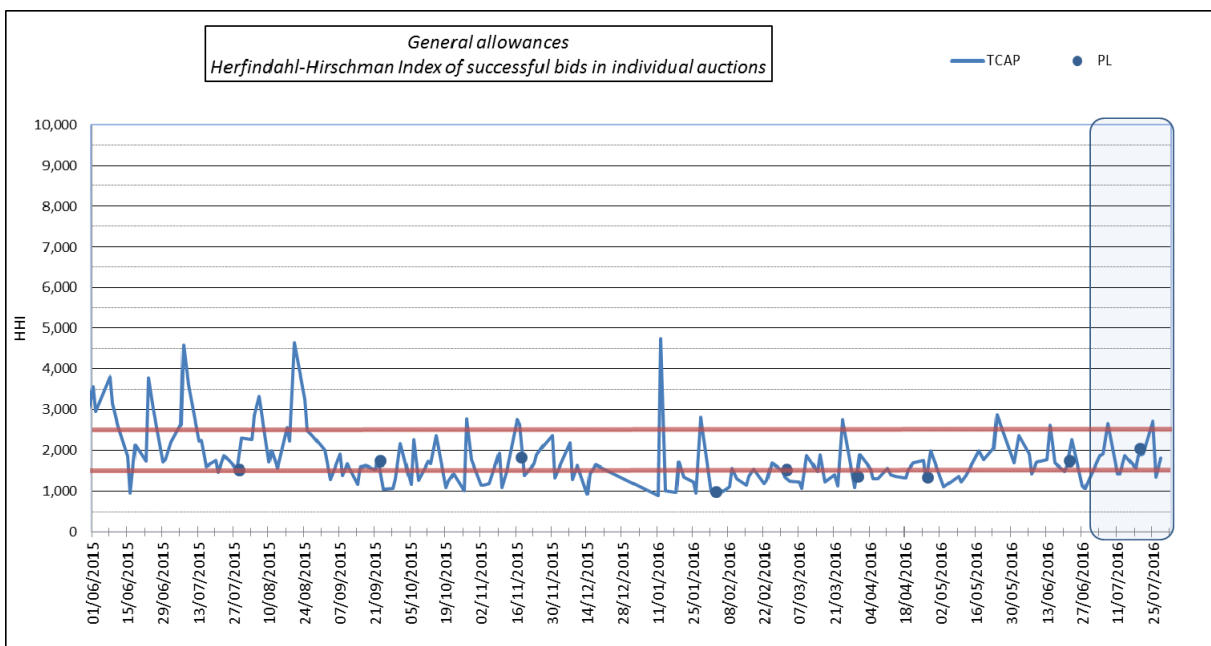
Month	% volume won coming from bidding on behalf of a client	Bidder category	% volume won	Standard deviation of % of volume won
July 2016	4.11%	Operators (including Business groupings)	56.5%	15.9 % points
		Investment firms (including persons exempt)	21.2%	11.5 % points
		Credit institutions	22.3%	11.1 % points

¹⁴ The data related to bidding on behalf of clients reflects the self-assessment of the respective trader.

1.1.4. Concentration - general allowances

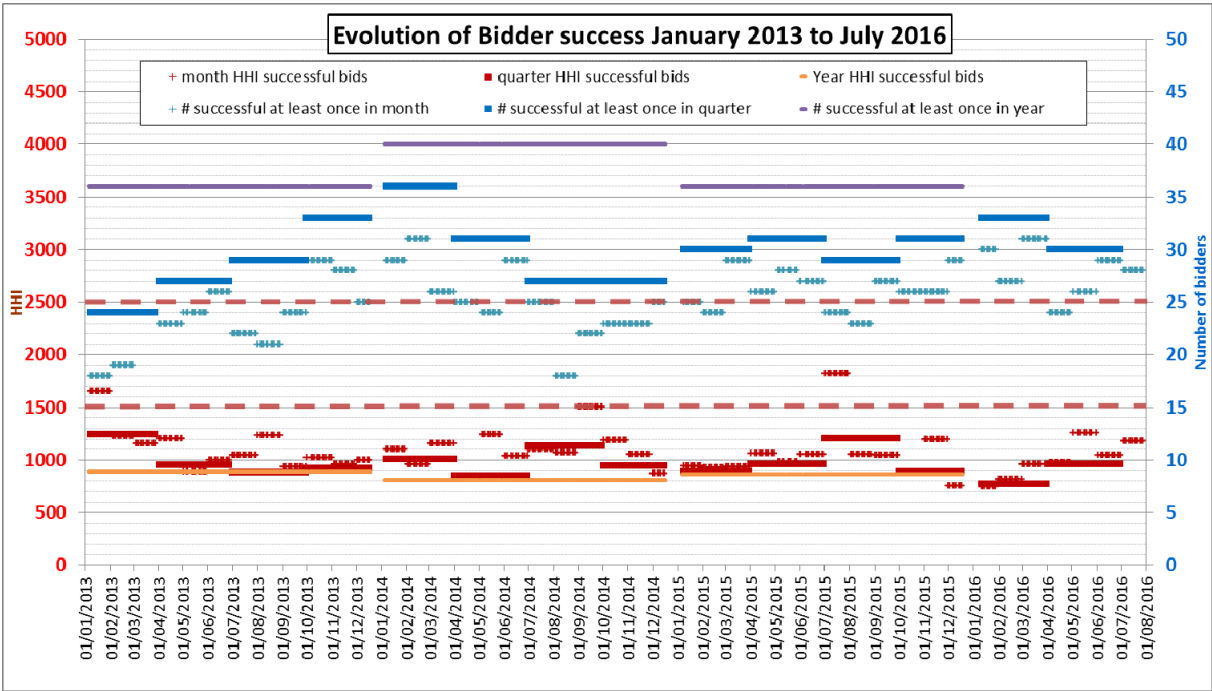
The Herfindahl-Hirschman Index (HHI) of successful bids is used to measure market concentration¹⁵. The HHI ranges from a value of 0 (perfect competition) to 10 000 (a single buyer). A common interpretation of the HHI is that a score below 1 500 is 'not-concentrated,' between 1 500 and 2 500 is 'moderately 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



¹⁵ 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, quarterly and yearly level



1.2 Aviation allowances auctions

The auctioning of *aviation allowances* restarted as of November 2014¹⁶. Pursuant to the published *auction calendar*, only *aviation allowances* for the calendar year 2012 were auctioned in 2014¹⁷; the *aviation allowances* for the calendar years 2013-2015 were 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 May 2015.

1.2.1 Clearing prices and participation – aviation allowances

An overview of the auction results from July 2015 to July 2016 is provided in Table 5.

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

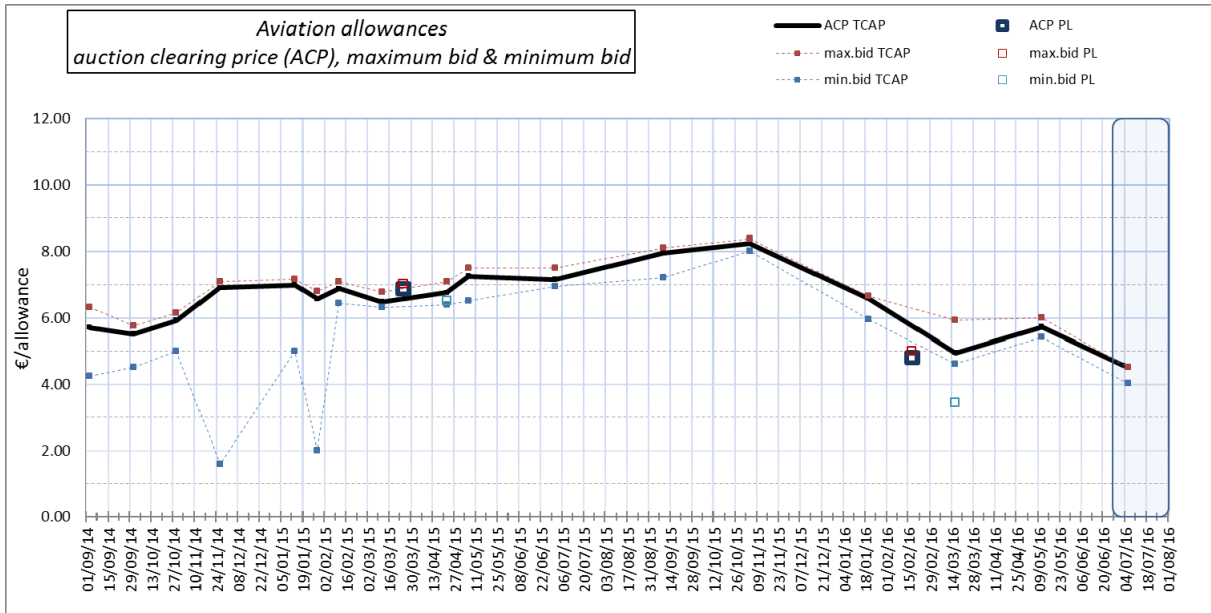
Month	Total auction volume	Total bid volume	Total revenue (€)	Average Cover ratio ¹⁸	Average number of bidders	Average number of successful bidders	Average auction clearing price (€)
July 2016	683 500	2 539 000	3 068 915	3.7	10.0	4.0	4.49
June 2016	-	-	-	-	-	-	-
May 2016	683 500	3 140 500	3 909 620	4.6	11.0	5.0	5.72
April 2016	-	-	-	-	-	-	-
March 2016	683 500	2 625 500	3 376 490	3.8	8.0	3.0	4.94
February 2016	120 000	1 663 000	576 000	13.9	12.0	2.0	4.80
January 2016	683 500	3 866 000	4 490 595	5.7	12.0	5.0	6.57
December 2015	-	-	-	-	-	-	-
November 2015	933 000	3 754 000	7 697 250	4.0	11.0	3.0	8.25
October 2015	-	-	-	-	-	-	-
September 2015	935 000	4 683 000	7 423 900	5.0	12.0	5.0	7.94
August 2015	-	-	-	-	-	-	-
July 2015	935 000	4 095 000	6 694 600	4.4	12.0	6.0	7.16
2015 total	11,641,000	39,026,000	81,846,705	3.4	11.0	7.5	7.03
2014 total	6 570 500	28 201 500	39 454 510	4.3	13.0	8.0	6.00

¹⁶ 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.

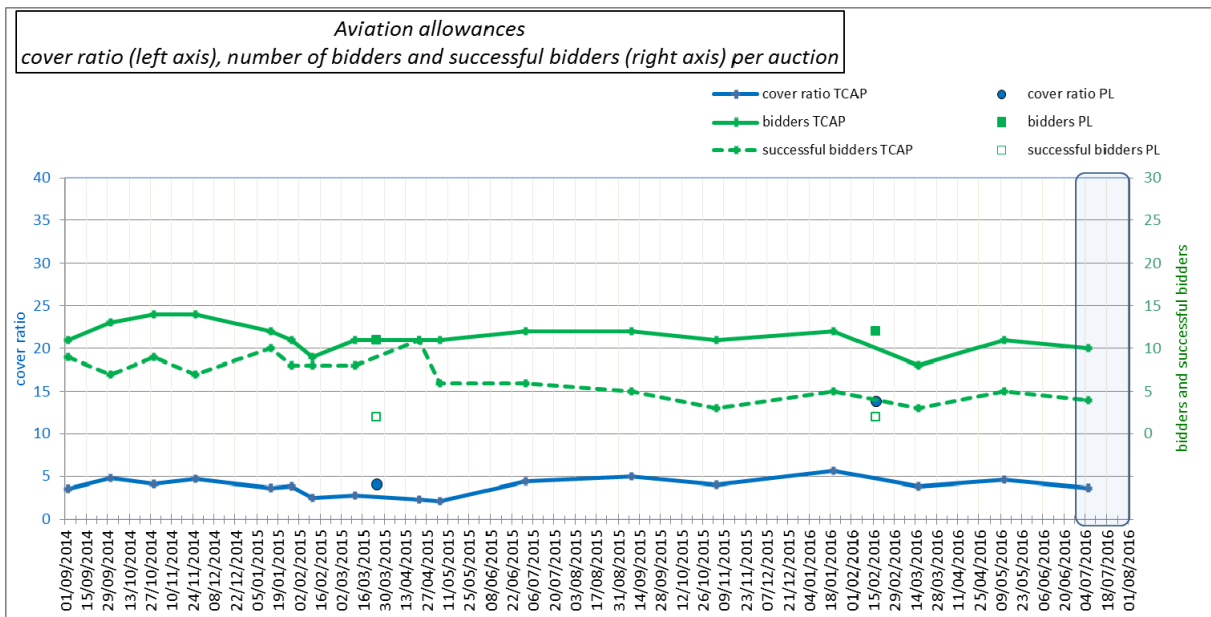
¹⁷ See also the regulatory update published by the Commission on 29 July 2014; http://ec.europa.eu/clima/news/articles/news_2014072901_en.htm.

¹⁸ 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 bid¹⁹

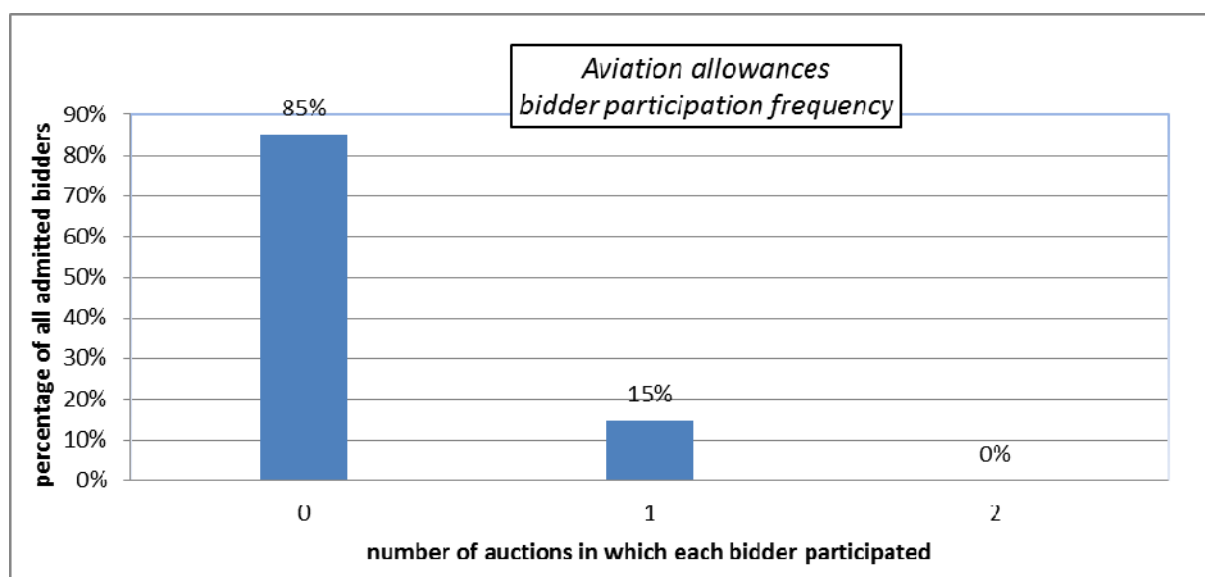


Graph 9: Aviation allowances - cover ratio (left axis), number of bidders and successful bidders (right axis) per auction



¹⁹ Auctions on behalf of Poland were held on the following days: 25/3/2015 and 17/2/2016.

Graph 10: Aviation allowances – bidder participation frequency in July 2016



1.2.2 Bidding behaviour – aviation allowances

Table 6 provides monthly data on the bids submitted from July 2015 to July 2016. See also Graph 11.

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 ²⁰	Average total volume bid per bidder per auction over the month ²¹	standard deviation of total volume bid per bidder per auction over the month ²²	Total monthly nr of bids	Average nr. of bids per bidder per auction ²³	Average bid size ²⁴
July 2016	1	10	2 539 000	253 900	253 900	194 273	25	2.5 ⁺⁺	101 560
June 2016	-	-	-	-	-	-	-	-	-
May 2016	1	11	3 140 500	285 500	285 500	277 449	41	3.7 ⁺⁺	76 598
April 2016	-	-	-	-	-	-	-	-	-
March 2016	1	8	2 625 500	328 188	328 187	271 282	33	4.1 ⁺⁺	79 561
February 2016	1	12	1 663 000	138 583	138 583	126 140	40	3.3 ⁺⁺	41 575
January 2016	1	12	3 866 000	322 167	322 167	234 168	45	3.8 ⁺⁺	85 911
December 2015	-	-	-	-	-	-	-	-	-
November 2015	1	11	3 754 000	341 273	341 273	271 392	37	3.4 ⁺⁺	101 459
October 2015	-	-	-	-	-	-	-	-	-
September 2015	1	12	4 683 000	390 250	390 250	259 804	49	4.1 ⁺⁺	95 571
August 2015	-	-	-	-	-	-	-	-	-
July 2015	1	12	4 095 000	341 250	341 250	219 603	42	3.5 ⁺⁺	97 500

++: indicates simple average

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

²⁰ 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.

²¹ 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).

²² Standard deviation of total volume bid per bidder in each auction over the month.

²³ 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).

²⁴ 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.

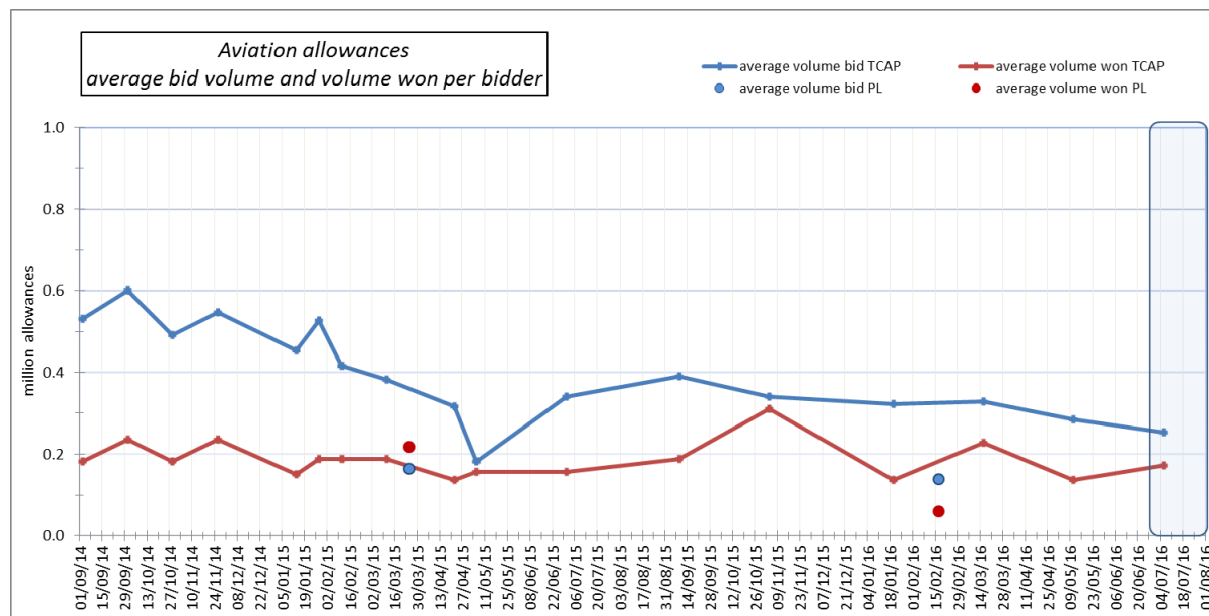
Table 7 provides monthly data on successful bids from July 2015 to July 2016. See also Graph 11.

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 ²⁵	Average volume won per bidder per auction over the month ²⁶	Standard deviation of volume won per bidder per auction over the month ²⁷	Total monthly nr of successful bids
July 2016	1	4	683 500	170 875	170 875	106 277	4
June 2016	-	-	-	-	-	-	-
May 2016	1	5	683 500	136 700	136 700	87 650	8
April 2016	-	-	-	-	-	-	-
March 2016	1	3	683 500	227 833	227 833	199 581	7
February 2016	1	2	120 000	60 000	60 000	40 000	2
January 2016	1	5	683 500	136 700	136 700	32 366	6
December 2015	-	-	-	-	-	-	-
November 2015	1	3	933 000	311 000	311 000	212 228	8
October 2015	-	-	-	-	-	-	-
September 2015	1	5	935 000	187 000	187 000	99 615	8
August 2015	-	-	-	-	-	-	-
July 2015	1	6	935 000	155 833	155 833	100 847	11

(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



²⁵ 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 volume auctioned in each auction.

²⁶ 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).

²⁷ Standard deviation of volume won per bidder in each auction over the month.

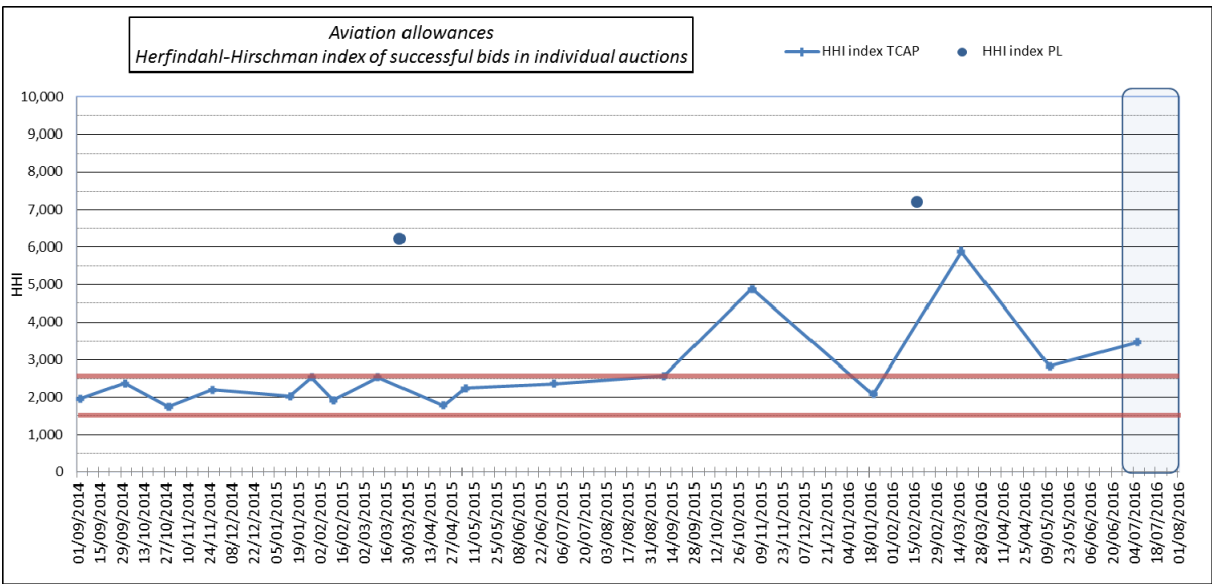
1.2.3 Type of bidders – aviation allowances

In July 2016, all volume bid was done on own account.

1.2.4 Concentration – aviation allowances

The HHI of successful bids is used to measure market concentration²⁸. 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



²⁸ 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 July 2016.

Most of the active participants in the secondary carbon market are assumed to also have been admitted to bid in the auctions²⁹.

Table 8: Eligible participants to the auctions in July 2016, 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	49	1	9	4	0	5	68
(Of which:) Participants eligible to bid in the auctions on behalf of clients	-	-	1	2	-	1	4
(Of which:) <i>Auction-only access</i>	2	0	1	0	0	1	4

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.

²⁹ 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.

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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 July 2016 (reported in euros)

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

	General Allowances		Aviation Allowances		All Allowances
	12 November 2012 – June 2016	July 2016	12 November 2012 – June 2016	July 2016	12 November 2012 – July 2016
Austria	227 674 885	4 774 450	3 890 370	92 045	236 431 750
Belgium	408 181 430	8 706 350	5 148 105	105 515	422 141 400
Bulgaria	278 848 765	6 908 910	1 272 195	35 920	287 065 790
Croatia	97 475 040	1 628 930	576 300	22 450	99 702 720
Cyprus	2 359 150	-	1 934 335	56 125	4 349 610
Czech Republic	311 541 020	9 605 070	1 843 995	47 145	323 037 230
Denmark	202 097 080	4 325 090	4 281 190	105 515	210 808 875
Estonia	59 594 615	1 909 780	218 185	6 735	61 729 315
Finland	273 524 500	5 729 340	3 260 610	83 065	282 597 515
France	896 281 305	18 873 120	24 047 895	473 695	939 676 015
Greece	563 970 205	11 964 210	6 831 685	193 070	582 959 170
Hungary	212 209 820	5 167 640	1 426 245	38 165	218 841 870
Ireland	149 874 505	3 201 690	3 337 275	83 065	156 496 535
Italy	1 577 845 935	33 252 640	21 810 435	561 250	1 633 470 260
Latvia	43 873 275	89 8720	749 930	20 205	45 542 130
Lithuania	80 132 455	1 685 100	387 390	11 225	82 216 170
Luxemburg	19 526 445	39 3190	890 030	8 980	20 818 645
Malta	16 460 310	337 020	755 030	22 450	17 574 810
The Netherlands	547 349 275	11 514 850	9 703 795	143 680	568 711 600
Poland	554 646 765	20 494 875	3 558 480	-	578 700 120
Portugal	286 828 950	6 066 360	4 593 085	112 250	297 600 645
Romania	560 962 610	15 783 770	2 161 350	62 860	578 970 590
Slovak Republic	251 702 835	5 279 980	267 735	6 735	257 257 285
Slovenia	72 438 300	1 516 590	201 545	4,490	74 160 925
Spain	1 414 008 180	29 798 185	25 315 815	633 090	1 469 755 270
Sweden	145 687 025	3 061 265	5 190 915	139 190	154 078 395
TOTAL	9 255 094 680	212 877 125	133 653 920	3 068 915	9 604 694 640

Annex 2 Results of individual auctions on behalf of participating Member States and Poland in July 2016

(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 - July 2016																			
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
04/07/2016	4.77	3.45	4.99	4.66	4.71	3 425 000	6 830 000	2.0	18	10	16 337 250	64	14	3.6	106 719	379 444	367 537	342 500	320 098
05/07/2016	4.86	3.45	6.00	4.76	4.80	3 425 000	7 546 000	2.2	21	13	16 645 500	71	17	3.4	106 282	359 333	335 292	263 462	320 768
07/07/2016	4.70	3.45	5.68	4.62	4.64	3 425 000	6 811 500	2.0	17	10	16 097 500	68	19	4.0	100 169	400 676	405 075	342 500	442 717
11/07/2016	4.45	3.45	6.00	4.40	4.40	3 425 000	6 828 500	2.0	17	13	15 241 250	68	17	4.0	100 419	401 676	362 151	263 462	244 811
12/07/2016	4.53	3.45	5.52	4.51	4.50	3 425 000	7 002 500	2.0	21	15	15 515 250	90	27	4.3	77 806	333 452	343 309	228 333	244 047
14/07/2016	4.79	3.45	5.00	4.71	4.76	3 425 000	8 343 000	2.4	19	13	16 405 750	70	21	3.7	119 186	439 105	417 099	263 462	314 930
18/07/2016	4.97	3.45	5.96	4.85	4.90	3 425 000	8 153 000	2.4	20	13	17 022 250	72	16	3.6	113 236	407 650	453 491	263 462	269 165
19/07/2016	4.75	3.45	6.00	4.69	4.72	3 425 000	9 530 000	2.8	16	12	16 268 750	81	20	5.1	117 654	595 625	597 821	285 417	318 162
20/07/2016	4.65	3.45	4.85	4.53	4.56	4 407 500	11 230 000	2.6	17	8	20 494 875	88	16	5.2	127 614	660 588	688 950	550 938	436 551
21/07/2016	4.70	3.45	4.87	4.60	4.66	3 425 000	8 419 000	2.5	20	10	16 097 500	72	16	3.6	116 931	420 950	598 192	342 500	326 778
25/07/2016	4.56	3.45	5.00	4.49	4.52	3 425 000	8 173 000	2.4	15	10	15 618 000	77	18	5.1	106 143	544 867	616 871	342 500	447 215
26/07/2016	4.51	3.45	6.00	4.49	4.51	3 425 000	7 815 000	2.3	19	18	15 446 750	89	33	4.7	87 809	411 316	471 434	190 278	227 058
28/07/2016	4.58	3.45	4.75	4.51	4.58	3 425 000	6 729 000	2.0	16	15	15 686 500	60	28	3.8	112 150	420 563	561 763	228 333	297 578
Monthly Value	-	-	-	-	-	45 507 500	103 410 500	-	28 ⁽¹⁾	28 ⁽¹⁾	212 877 125	970	262	4.1 ⁽²⁾	106 609 ⁽³⁾	438 180 ⁽⁴⁾	493 818 ⁽⁵⁾	284 422 ⁽⁶⁾	328 532 ⁽⁷⁾
Monthly minimum	4.45	3.45	4.75	-	-	3 425 000	6,729,000	2.0	15	8	15 241 250	60	14	3.4	77 806	333 452	-	190 278	-
Monthly average	4.68	3.45	5.42	4.60 ⁺⁺	-	3 500 577 ⁺⁺	8 025 368	2.3	18.1	12.2	16 375 163 ⁺⁺	74.9	20.1	4.1 ⁺⁺	107 529	448 920	-	305 955	-
Monthly maximum	4.97	3.45	6.00	-	-	4 407 500	11 230 000	2.8	21	18	20 494 875	90	33	5.2	127 614	660 588	-	550 938	-

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 – July 2016

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
06/07/2016	4.49	4.02	4.52	4.38	4.4	683 500	2 539 000	3.7	10	4	3 068 915	25	4	2.5	101 560	253 900	194 273	170 875	106 277
Monthly Value	-	-	-	-	-	683 500	2 539 000	-	10 ⁽¹⁾	4.0 ⁽¹⁾	3 068 915	25	4	2.5 ⁽²⁾	101 560 ⁽³⁾	253 900 ⁽⁴⁾	194 273 ⁽⁵⁾	170 875 ⁽⁶⁾	106 277 ⁽⁷⁾
Monthly minimum	4.49	4.02	4.52	-	-	683 500	2 539 000	3.7	10	4	3 068 915	25	4	2.5	101 560	253 900	-	170 875	-
Monthly average	4.49	4.02	4.52	4.38	-	683 500	2 539 000	3.7	10.0	4.0	3 068 915	25.0	4.0	2.5 ⁺⁺	101 560	253 900	-	170 875	-
Monthly maximum	4.49	4.02	4.52	-	-	683 500	2 539 000	3.7	10	4	3 068 915	25	4	2.5	101 560	253 900	-	170 875	-

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>

