

# FORWARD ELECTRICITY PRODUCTS AUCTIONS SYSTEM

## MONTHLY WHOLESALE AND RETAIL PENETRATION AND MARKET SHARE REPORT

*October 2017*



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**Disclaimer**

As part of its responsibilities as the Operator of the Forward Electricity Products Auction System (FEPAS) and according to the provisions of the relevant regulatory and legal framework, the Market Operator for Electricity S.A. (LAGIE) publishes the “Monthly Wholesale and Retail Penetration and Market Share Report”. The current report includes historical data concerning the operation of FEPAS which are derived from the records of LAGIE kept for the purposes of FEPAS. In addition, it includes Wholesale and Retail market data which are provided by the Transmission System Operator (ADMIE), the Hellenic Electricity Distribution Network Operator S.A. (HEDNO) and the AIA Electricity Grid Manager (EGM) for the purposes of FEPAS.

LAGIE makes every effort to ensure the correctness and accuracy of the data of its responsibility included in this Report. These data are very volatile electricity market parameters and are not under any circumstances a piece of commercial, business, legal or any other type of advice/recommendation of LAGIE to any party. LAGIE or any other person or legal entity acting on its behalf, bare no direct or indirect responsibility for any damage caused to any party by the use of the data included in the current report.

## 1. Establishment of the Forward Electricity Products Auctions System

The Forward Electricity Products Auctions System (FEPAS) was established by virtue of Law 4336/2015 and Law 4389/2016 in order to promote healthy competition in the Greek wholesale and retail electricity markets and decrease the relative market shares of the Public Power Corporation S.A. (PPC) under 50% by 2020. The FEPAS provides access for PPC competitors to Forward Electricity Products (with physical delivery obligation to the current day-ahead market structure) so that competitive portfolios to be deployed. The Operator of Electricity Market S.A. (LAGIE) is appointed as the Operator of the FEPAS having under its responsibility the registration of Market Participants, the operation of the Auctions, the Secondary Market, the Nominations and the Supplementary Clearing of the Forward Product's quantities taking into consideration the Nominations and the relative Auction Prices and System Marginal Prices.

The Power Exchange Code for Forward Electricity Products Auctions System (PECFEPAS) was approved by the Regulatory Authority of Greece by September 2016 (RAE Decision 329/2016). The first Auction for a Forward Electricity Product was conducted by LAGIE at 25/10/2016.

## 2. FEPAS Register

The Alternative Suppliers, Traders and the PPC are participating in FEPAS by accepting the terms of the PECFEPAS and entering at the same time the FEPAS Register as Eligible Suppliers, Eligible Traders and Seller. Currently the FEPAS Register includes twenty-four (29) Participants, i.e.: 23 Eligible Suppliers, 5 Eligible Traders and PPC as the single-seller of the Forward Products. Until the delivery month this report refers to the FEPAS Register consisted of the following Participants:

### 2.1 Eligible Suppliers

A/A	PARTICIPANT	REGISTERED
1	ALPIQ ENERGY SE	24.02.2017
2	ECONOMIC GROWTH ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ ΕΞΕΙΔΙΚΕΥΜΕΝΩΝ ΜΕΛΕΤΩΝ ΚΑΙ ΣΥΜΒΟΥΛΕΥΤΙΚΩΝ ΥΠΗΡΕΣΙΩΝ	28.11.2016
3	ELPEDISON ΠΑΡΑΓΩΓΗ ΗΛΕΚΤΡΙΚΗΣ ΕΝΕΡΓΕΙΑΣ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	18.10.2016
4	EUNICE TRADING A.E.	14.07.2017
5	GEN-I ATHENS Μ.Ε.Π.Ε.	03.07.2017
6	GREEK ENVIRONMENTAL & ENERGY NETWORK ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	12.10.2016
7	GREENSTEEL-CEDALION COMMODITIES A.E.	16.11.2016
8	INTERBETON CONSTRUCTION MATERIALS S.A.	19.10.2016
9	ΚΕΝ ΠΑΡΑΓΩΓΗ ΚΑΙ ΕΜΠΟΡΙΑ ΕΝΕΡΓΕΙΑΚΩΝ ΠΡΟΪΟΝΤΩΝ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	05.01.2017
10	NECO A.E.	20.10.2017
11	NOVAERA ENERGY A.E.	18.10.2016
12	NRG TRADING HOUSE S.A.	18.10.2016
13	PROTERGIA ΘΕΡΜΟΗΛΕΚΤΡΙΚΗ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	03.07.2017
14	VOLTERRA A.E.	19.10.2016
15	VOLTON ΕΛΛΗΝΙΚΗ ΕΝΕΡΓΕΙΑΚΗ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	05.01.2017
16	WATT AND VOLT A.E.	19.10.2016
17	BIENER A.E. ΕΝΕΡΓΕΙΑΚΕΣ ΕΠΙΧΕΙΡΗΣΕΙΣ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	18.10.2016

A/A	PARTICIPANT	REGISTERED
18	ΕΛΛΗΝΙΚΑ ΤΑΧΥΔΡΟΜΕΙΑ ΑΕ	19.10.2016
19	ΕΤΑΙΡΕΙΑ ΠΑΡΟΧΗΣ ΑΕΡΙΟΥ ΑΤΤΙΚΗΣ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	06.10.2017
20	ΕΤΑΙΡΙΑ ΠΡΟΜΗΘΕΙΑΣ ΑΕΡΙΟΥ ΘΕΣΣΑΛΟΝΙΚΗΣ-ΘΕΣΣΑΛΙΑΣ Α.Ε.	20.09.2017
21	ΗΡΩΝ ΘΕΡΜΟΗΛΕΚΤΡΙΚΗ Α.Ε.	18.10.2016
22	ΜΥΤΙΛΗΝΑΙΟΣ ΑΝΩΝΥΜΟΣ ΕΤΑΙΡΕΙΑ - ΟΜΙΛΟΣ ΕΠΙΧΕΙΡΗΣΕΩΝ	07.07.2017
23	ΟΤΕ ΑΚΙΝΗΤΑ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	16.11.2016

## 2.2 Eligible Traders

A/A	PARTICIPANT	REGISTERED
1	DANSKE COMMODITIES A/S	26.09.2017
2	ENSCO S.A.	15.02.2017
3	EZPADA S.R.O.	28.03.2017
4	LE TRADING A.S.	28.09.2017
5	SENTRADE A.E.	25.10.2016

## 2.3 Sellers

I/I	PARTICIPANT	REGISTERED
1	ΔΗΜΟΣΙΑ ΕΠΙΧΕΙΡΗΣΗ ΗΛΕΚΤΡΙΣΜΟΥ Α.Ε.	19.10.2016

### 3. Yearly Quantities, Products Segmentation and Auctions Schedule

According to Law 4389/2016 and the provisions of PECFEPAS the Yearly Quantities released as Forward Electricity Products in the Auctions are calculated yearly, on the basis of the relative decrease of the PPC market shares by the end of each year, taking into consideration the consumption volume of the Interconnected System and Network. Table.1 summarizes the targets set out for the yearly decrease of PPC market shares having as a reference point the PPC market share of August 2015.

**Table.1 Yearly targets for PPC market share reduction**

	Mandatory Pool				EU Target Model	
Month / Year	08/2015	12/2016	12/2017	12/2018	12/2019	2020
Retail market decrease target		-8%	-12%	-13%	-13%	
Retail Market Share	95,24%	87,24%	75,24%	62,24%	49,24%	

The Yearly Quantities to be auctioned are the result of the “Yearly targets for PPC market share reduction” multiplied by the total volume of the Interconnected System of the previous year. The Yearly Quantities to be auctioned, their segmentation into Forward Electricity Products with physical delivery and the Auctions’ Schedule, are approved by the Regulatory Authority of Energy (RAE), following the relative LAGIE proposals (Article 138, Law 4389/2016).

According to Article 135 of Law 4389/2016 as amended and is in force by article 101 of Law 4472/2017, in case the decrease in PPC’S share in the retail market of the Interconnected System is less or more than two (2) percentage points from the decrease target of the relevant semester, as defined by dividing the yearly decrease target into half year decrease targets, the Regulatory Authority – according to the Provisions of Article 138 of Law 4389/2016 - increases or decreases equivalently the quantities to be auctioned during the first semester after the reference semester.

According to RAE Decisions 353/2016 and 619/2016 and following a Public Consultation on LAGIE’s proposals, the yearly quantities for 2016 and 2017 where set to 460 MWh/h and 681 MWh/h respectively. Moreover, these Yearly Quantities were segmented into distinct Forward Electricity Products and the Auctions’ Timetable was determined, as depicted in Table 3.

According to Article 101 of Law N.4472/2017, the Yearly Quantities of Electricity Products to be auctioned, as a percentage (%) of the total volume of the Interconnected System of the previous year depicted in Table.2, are re-adjusted. The Auction Schedule has been modified by RAE decision **817/2017**, following the relative LAGIE proposal, taking into account both the Yearly Quantities increment by four (4) percentage points according to the Provisions of Law N.4472/2017 (referring to quantities with physical delivery corresponding to December 2017), and the Yearly Quantities increment as a result of the deviation of 4.25% from Yearly decrease target of PPC’S shares confirmed in June 2017 by the Market Operator in accordance with the provisions of article 135 of Law 4389/2016. Table 3 depicts the updated Auctions’ Schedule.

**Table.2 Updated Yearly Quantities of Electricity Products to be auctioned**

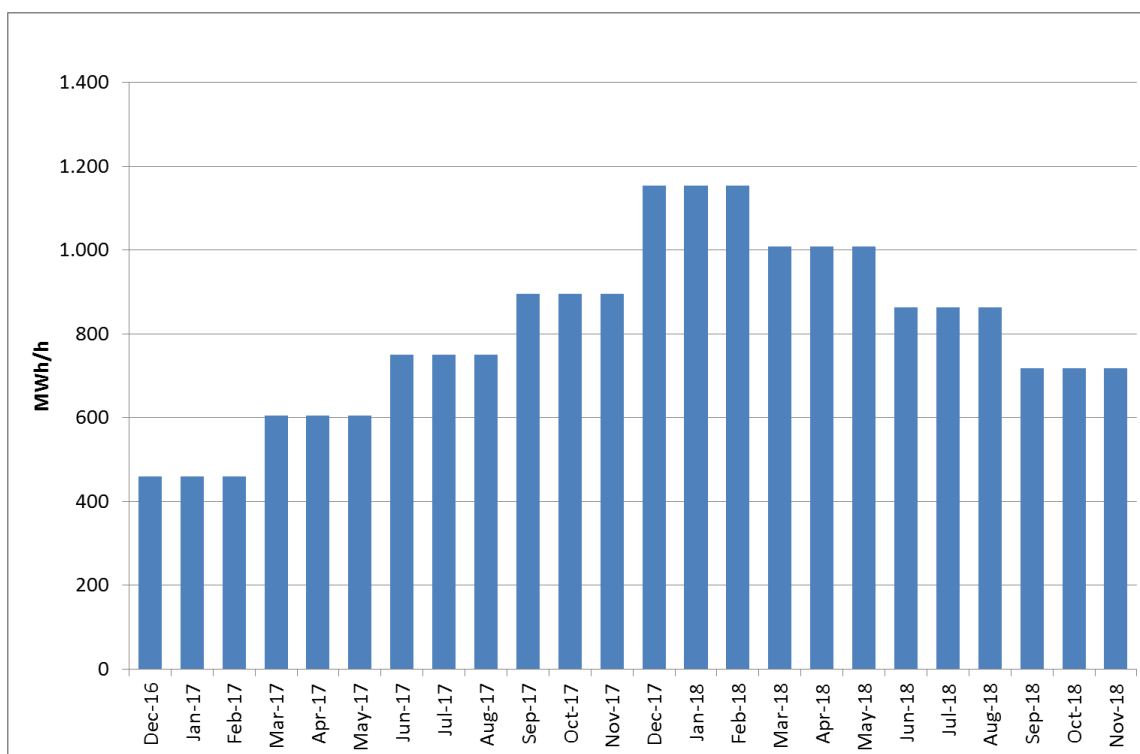
	Mandatory Pool				EU Target Model	
Month / Year	08/2015	12/2016	12/2017	12/2018	12/2019	2020
Yearly Quantities (%) into Forward Electricity Products Auctions		8%	16%	19%	22%	

**Table.3 Forward Products and Auctions Schedule**

Forward Product	Volume (MWh)	Quantity (MWh/h)	Physical Delivery Period	Auction Day	RAE Decision
2016A01P01*	4.029.600	460	20161201-20171130	25/10/2016	353/2016
2017A01P01*	1.270.200	145	20170301-20180228	31/01/2017	619/2016
2017A02P02*	1.270.200	145	20170601-20180531	26/04/2017	619/2016
2017A03P03*	1.270.200	145	20170901-20180831	19/07/2017	619/2016
2017A04P04*	6.289.680	718	20171201-20181130	25/10/2017	817/2016

(\*) Forward Products already auctioned by end of October 2017.

Figure.1 depicts the segmentation of the Yearly Quantities into Forward Electricity Products.

**Figure.1 Segmentation of approved Forward Electricity Products to the Physical Delivery Months**


## 4. Auctions

According to the relative RAE decisions 353/216 and 619/2016 (summarized in Table.1) during the eight (12) months LAGIE has conducted three (5) Auctions for five distinct Forward Products.

### 4.1 Auction «2016A01»

The Auction «2016A01» was conducted at October 25<sup>th</sup> 2016. The product «2016A01P01» was auctioned according to the approved Technical Specifications (RAE Decision 393/2016). The Technical Details of the Auction Specifications, the Auctions Procedure and Results are summarized as follows.

#### Technical Specifications and procedure for the Auction «2016A01»

Auction	Required Participation Guarantees (€)	Auction Type	Gate Open	Gate Close	Gate Extensions /Duration
2016A01	451.758,50	American / Yankee Auction	25/10/2016 12:00	25/10/2016 12:30	Yes/ 3minutes

#### Bids Technical Specifications for the Auction «2016A01»

Auction	Minimum Allocation Quantity (MWh/h)	Minimum Bid Quantity (MWh/h)	Minimum Bid Price Tic (€/MWh)
2016A01	1	1	0,01

#### Specifications of Forward Product «2016A0P01»

Forward Product	Volume (MWh)	Quantity (MWh/h)	Physical Delivery Period	Reserve Price (€/MWh)
2016A01P01	4.029.600	460	01/12/2016-30/11/2017	<b>37,37*</b>

(\*) According to the Ministerial Decision, ΑΠΕΗΛ/Γ/Φ1/οικ.182348/24.08.2016 (Government Gazette Β' 2848)

#### Summary of Auction Bids for Auction «2016A01»

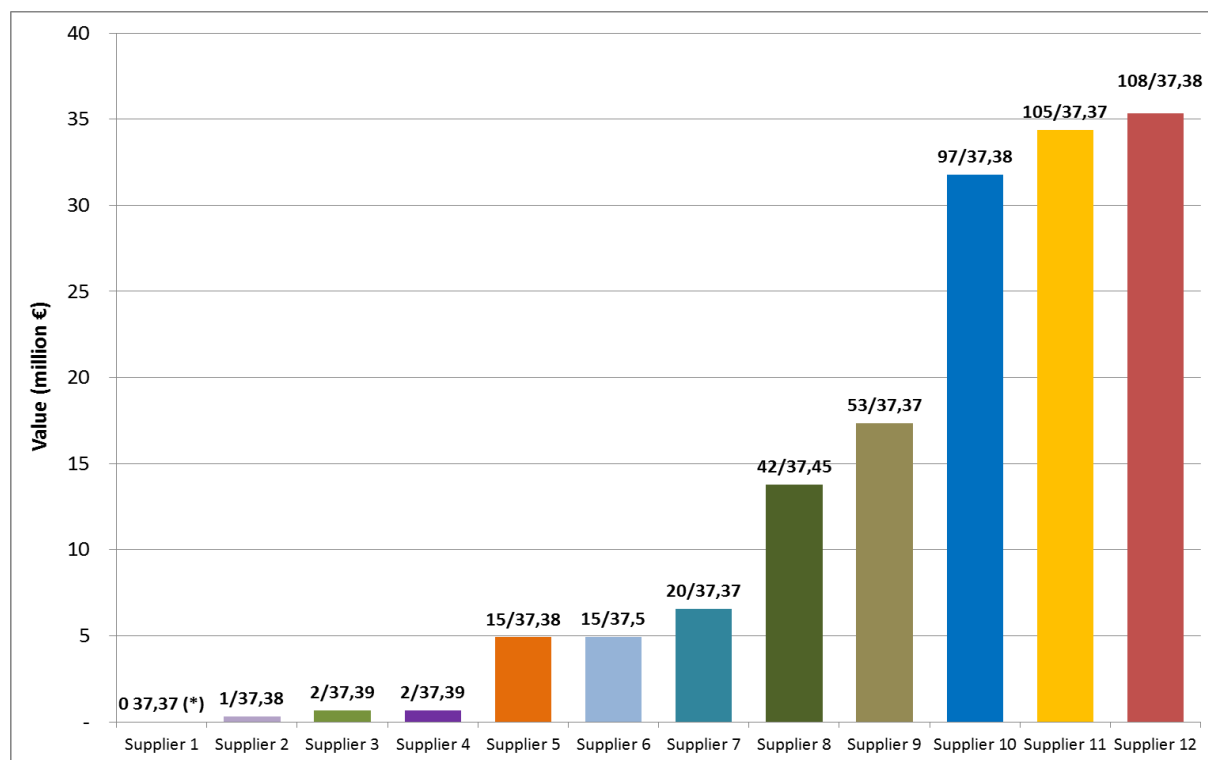
Auction	Participants	Valid Bids	Invalid Bids	Total Allocated Quantity
2016A01	12	27	0	460 (100%)
	Best Bid Price	Max Allocated Quantity	Max Requested Quantity	Total Requested Quantity /Total Allocated Quantity
	37,50	108	108	473/ 460

#### Summary of Auction Process for Auction «2016A01»

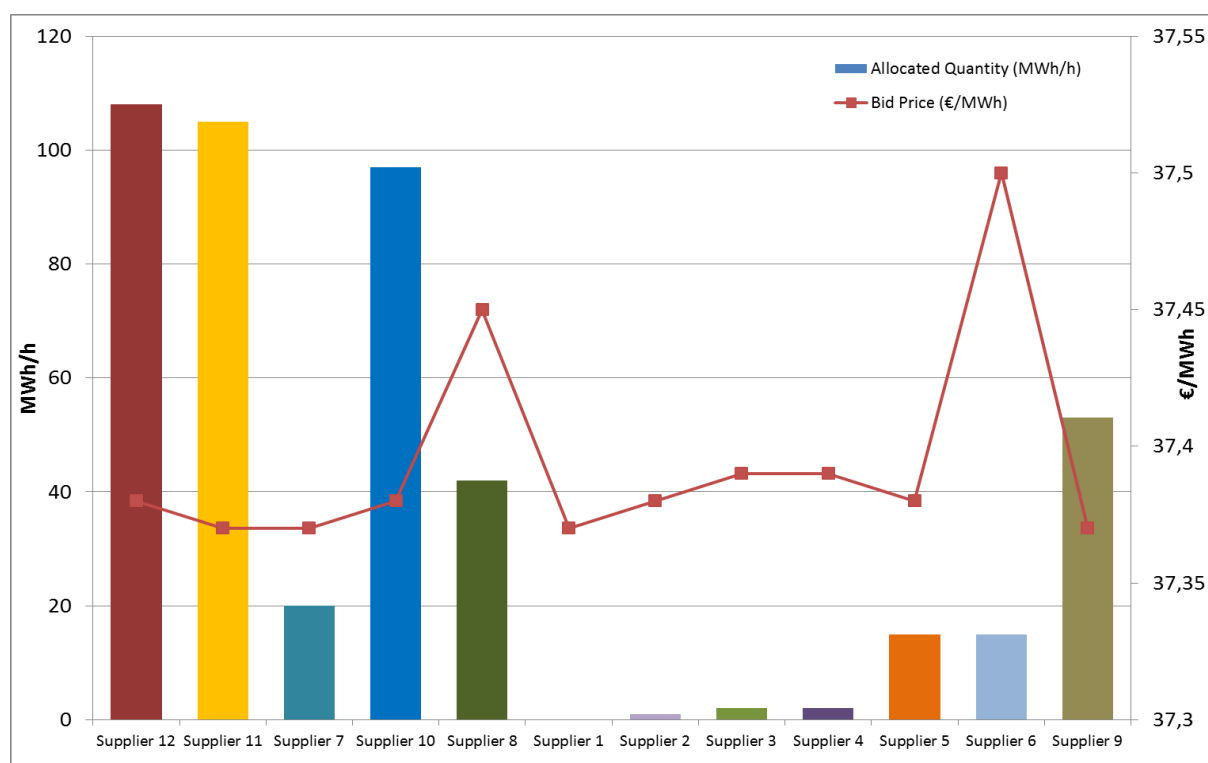
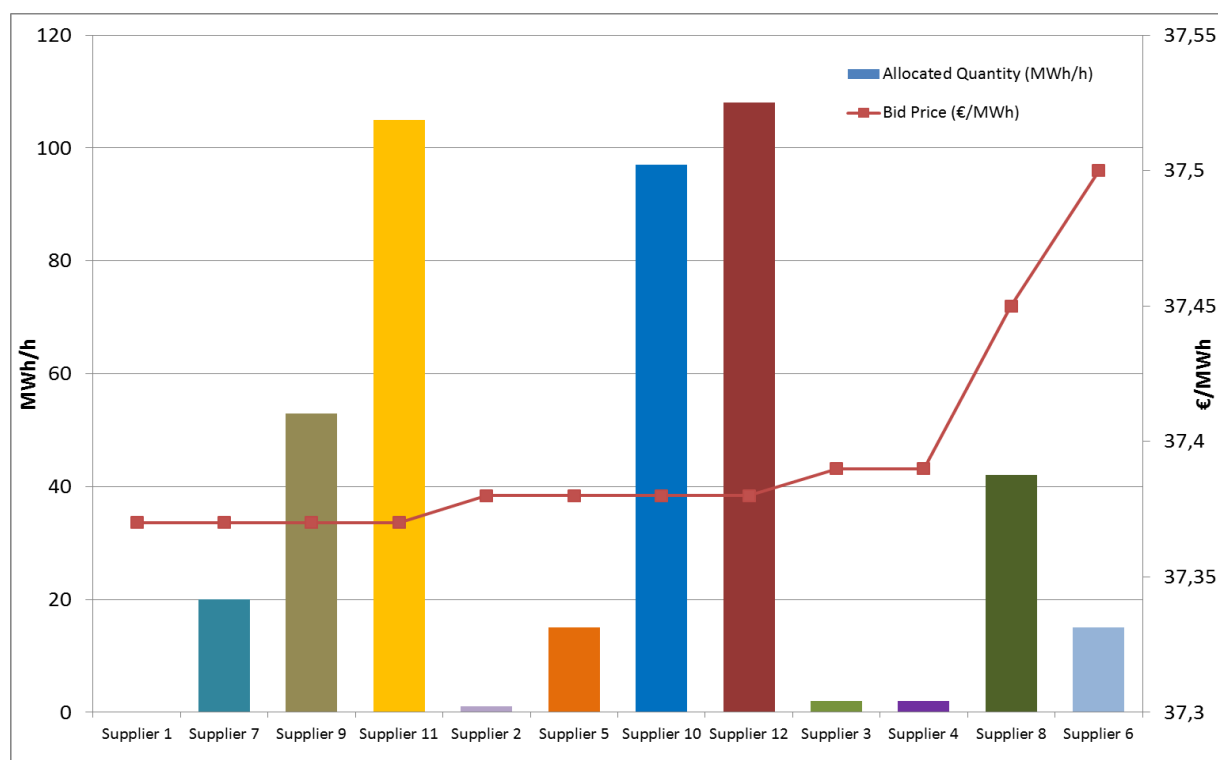
Auction	Gate Open	Gate Close	Extensions	Objections
2016A01	25/10/2016 12:00	25/10/2016 12:42	4	0

**Table.4 Bids Final Classification Table for Auction «2016A01»**

Bid ID	Requested Quantity	Allocated Quantity	Bid Price	Date	Time
250531	15	15	37,50	25/10/2016	12:32:43
250505	42	42	37,45	25/10/2016	12:00:27
250519	2	2	37,39	25/10/2016	12:23:02
250528	2	2	37,39	25/10/2016	12:27:13
250498	108	108	37,38	25/10/2016	12:00:09
250504	97	97	37,38	25/10/2016	12:00:24
250530	15	15	37,38	25/10/2016	12:32:24
250518	1	1	37,38	25/10/2016	12:22:21
250499	105	105	37,37	25/10/2016	12:00:09
250534	53	53	37,37	25/10/2016	12:38:16
250500	23	20	37,37	25/10/2016	12:00:11
250510	10	0	37,37	25/10/2016	12:02:03

**Figure.2 Valuation of Bids Allocated for Auction «2016A01P01»**


(\*) Allocated Quantity (MWh/h) and Bid Price (€/MWh)

**Figure.3 Final Classification of Bids for Auction «2016A01» (sorted to the submission time)**

**Figure.4 Final Classification of Bids for Auction «2016A01» (sorted to the Bid Price)**


## 4.2 Auction «2017A01»

The Auction «2017A01» was conducted at January 31<sup>st</sup> 2017. The product «2017A01P01» was auctioned according to the approved Technical Specifications (RAE Decision 21/2017). The Technical Details of the Auction Specifications, the Auctions Procedure and Results are summarized as follows.

### Technical Specifications and procedure for the Auction «2017A01»

Auction	Required Participation Guarantees (€)	Auction Type	Gate Open	Gate Close	Gate Extensions /Duration
2017A01	142.402,13	American / Yankee Auction	31/01/2017 12:00	31/01/2017 12:30	Yes/ 3mins

### Bids Technical Specifications for the Auction «2017A01»

Auction	Minimum Allocation Quantity (MWh/h)	Minimum Bid Quantity (MWh/h)	Minimum Bid Price Tic (€/MWh)
2017A01	1	1	0,01

### Specifications of Forward Product «2017A0P01»

Forward Product	Volume (MWh)	Quantity (MWh/h)	Physical Delivery Period	Reserve Price (€/MWh)
2017A0P01	1.270.200	145	01/03/2017-28/02/2018	37,37*

(\*) According to the Ministerial Decision, ΑΠΕΗΛ/Γ/Φ1/οικ.182348/24.08.2016 (Government Gazette Β' 2848)

### Summary of Auction Bids for Auction «2017A01»

Auction	Participants	Valid Bids	Invalid Bids	Total Allocated Quantity
2017A01	14	2.214	506	145 (100%)
	Best Bid Price	Max Allocated Quantity	Max Requested Quantity	Total Requested Quantity /Total Allocated Quantity
	41,14	33	48	161/145

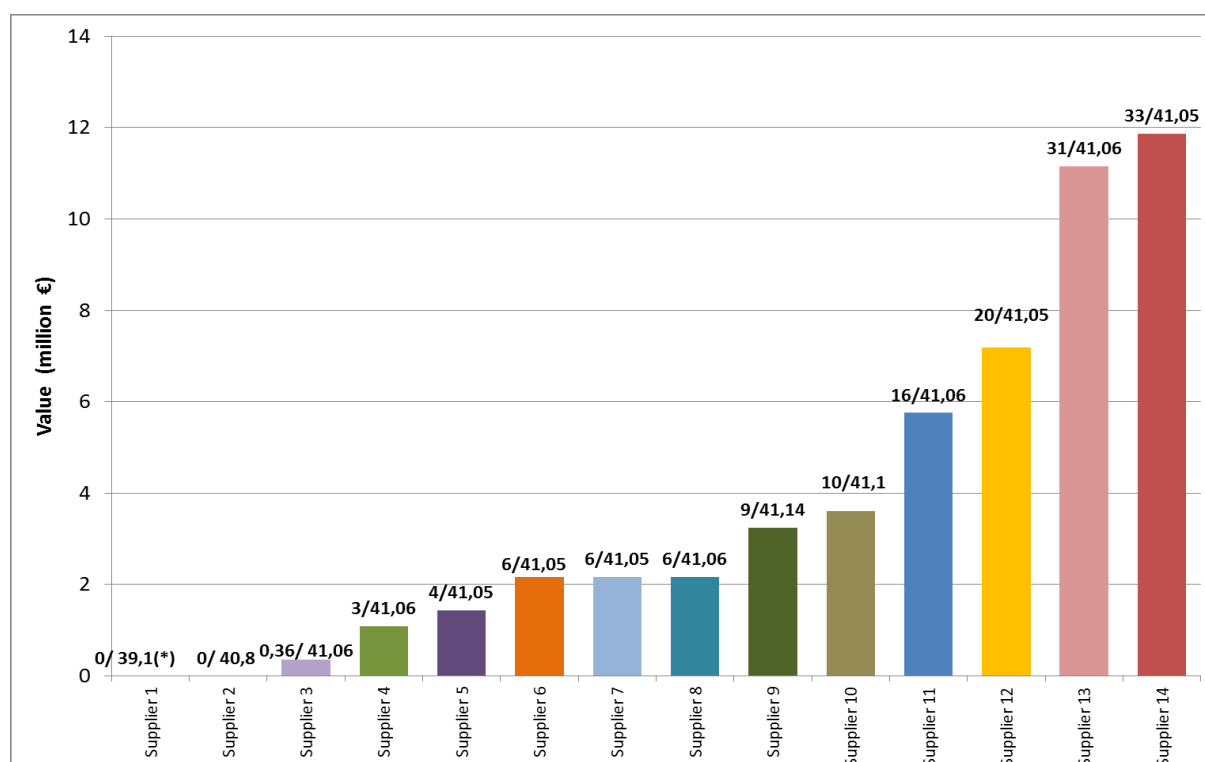
### Summary of Auction Process for Auction «2017A01»

Auction	Gate Open	Gate Close	Extensions	Objections
2017A01	31/01/2017 12:00	31/01/2017 17:30	100	0

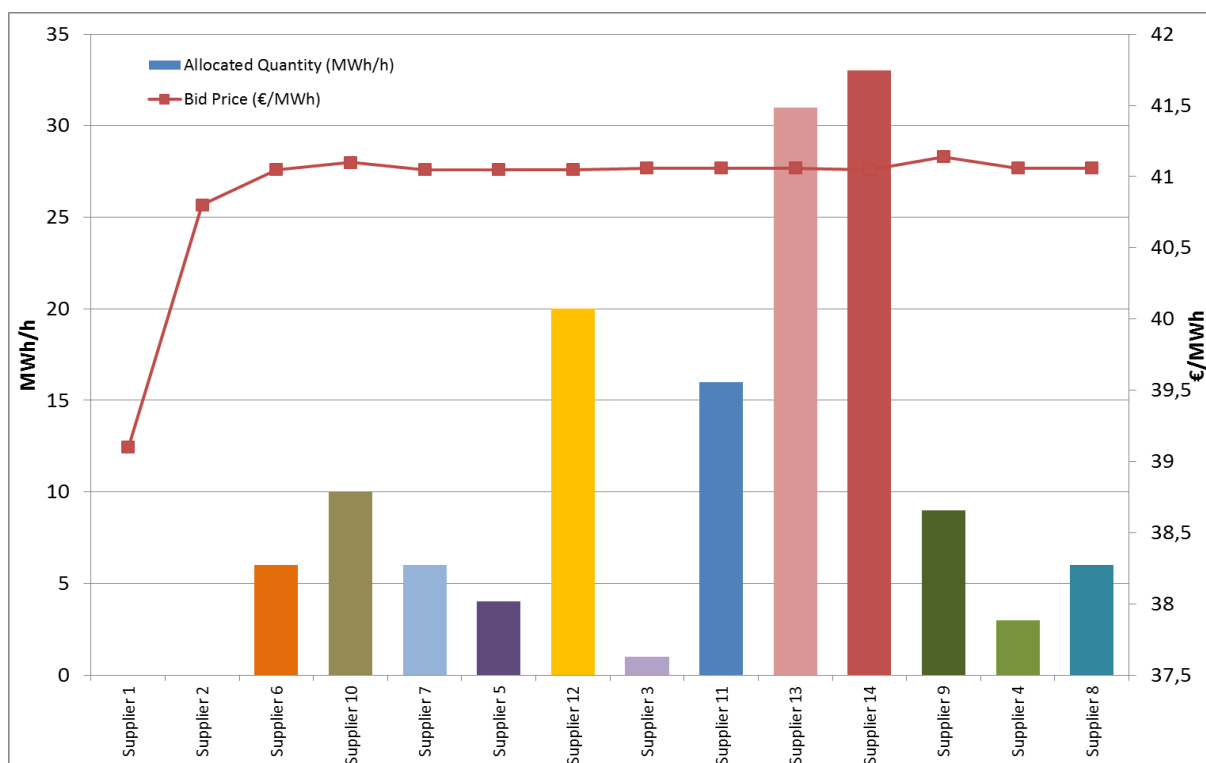
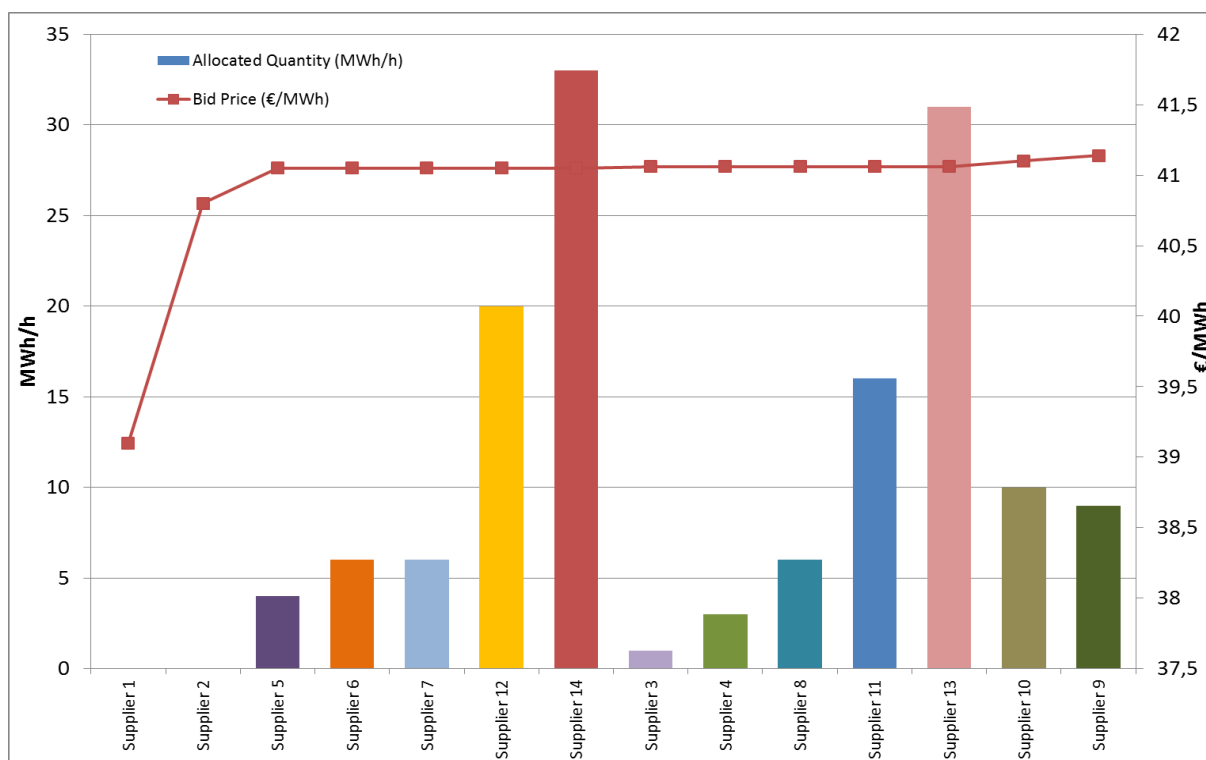
Table.5 Bids Final Classification Table for Auction «2017A01»

Bid ID	Requested Quantity	Allocated Quantity	Bid Price	Date	Time
261542	9	9	41,14	31/1/2017	17:23:50
261509	10	10	41,10	31/1/2017	16:58:24
261540	31	31	41,06	31/1/2017	17:23:16
261539	16	16	41,06	31/1/2017	17:18:27
261544	6	6	41,06	31/1/2017	17:24:04
261543	3	3	41,06	31/1/2017	17:23:53
261536	1	1	41,06	31/1/2017	17:17:43
261541	33	33	41,05	31/1/2017	17:23:43
261533	20	20	41,05	31/1/2017	17:12:35
261507	6	6	41,05	31/1/2017	16:55:19
261527	6	6	41,05	31/1/2017	17:08:16
261532	6	4	41,05	31/1/2017	17:09:04
261375	1	0	40,80	31/1/2017	16:08:59
260508	13	0	39,10	31/1/2017	14:00:03

Figure.5 Valuation of Bids Allocated for Auction «2017A01P01»



(\*) Allocated Quantity (MWh/h) and Bid Price (€/MWh)

**Figure.6 Final Classification of Bids for Auction «2017A01» (sorted to the submission time)**

**Figure.7 Final Classification of Bids for Auction «2017A01» (sorted to the Bid Price)**


### 4.3 Auction «2017A02»

The Auction «2017A02» was conducted at April 26<sup>th</sup> 2017. The product «2017A02P02» was auctioned according to the approved Technical Specifications (RAE Decision 298/2017). The Technical Details of the Auction Specifications, the Auctions Procedure and Results are summarized as follows.

#### Technical Specifications and procedure for the Auction «2017A02»

Auction	Required Participation Guarantees (€)	Auction Type	Gate Open	Gate Close	Gate Extensions /Duration
2017A02	142.402,13	American / Yankee Auction	26/04/2017 12:00	26/04/2017 12:30	Yes/ 3minutes

#### Bids Technical Specifications for the Auction «2017A02»

Auction	Minimum Allocation Quantity (MWh/h)	Minimum Bid Quantity (MWh/h)	Minimum Bid Price Tic (€/MWh)
2017A02	1	1	0,05

#### Specifications of Forward Product «2017A02P02»

Forward Product	Volume (MWh)	Quantity (MWh/h)	Physical Delivery Period	Reserve Price (€/MWh)
2017A02P02	1.270.200	145	01/06/2017-31/05/2018	37,37*

(\*) According to the Ministerial Decision, ΑΠΕΗΛ/Γ/Φ1/οικ.182348/24.08.2016 (Government Gazette B' 2848)

#### Summary of Auction Bids for Auction «2017A02»

Auction	Participants	Valid Bids	Invalid Bids	Total Allocated Quantity
2017A02	11	507	40	145 (100%)
	Best Bid Price	Max Allocated Quantity	Max Requested Quantity	Total Requested Quantity /Total Allocated Quantity
	40,02	30	46	156/145

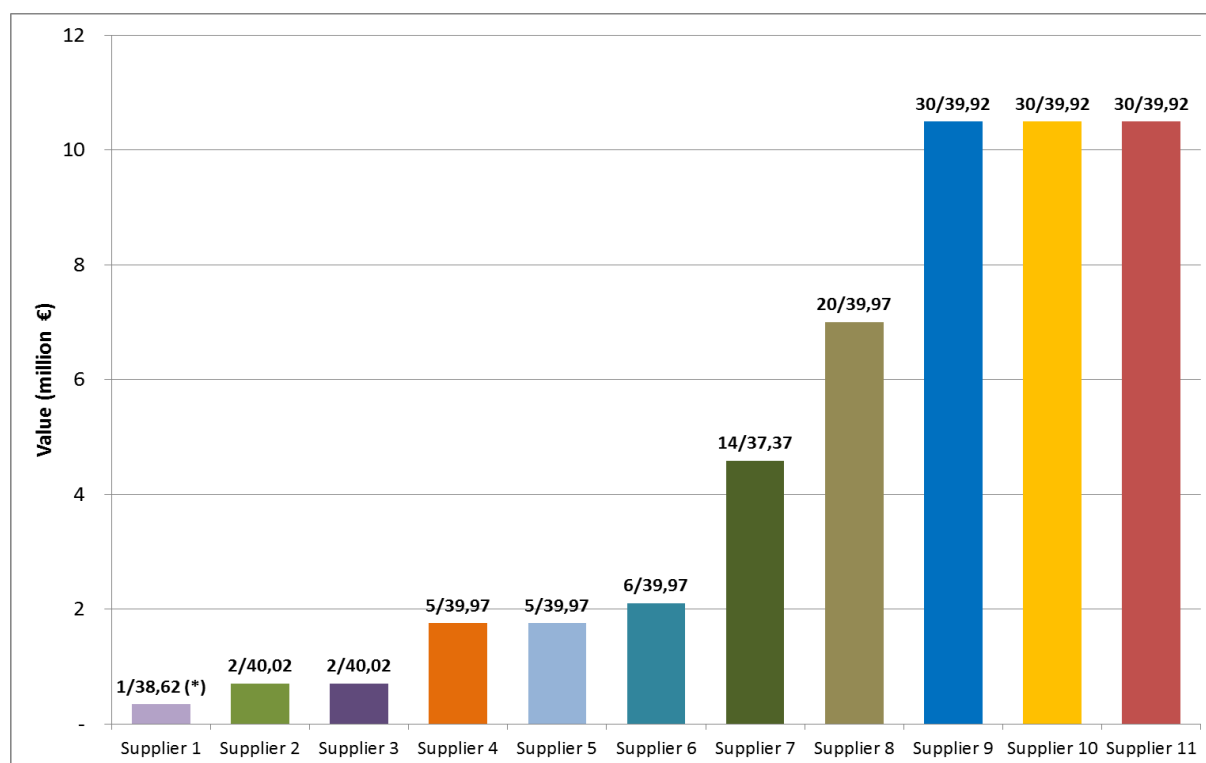
#### Summary of Auction Process for Auction «2017A02»

Auction	Gate Open	Gate Close	Extensions	Objections
2017A02	26/04/2017 12:00	26/04/2017 14:42	44	0

Table.6 Bids Final Classification Table for Auction «2017A02»

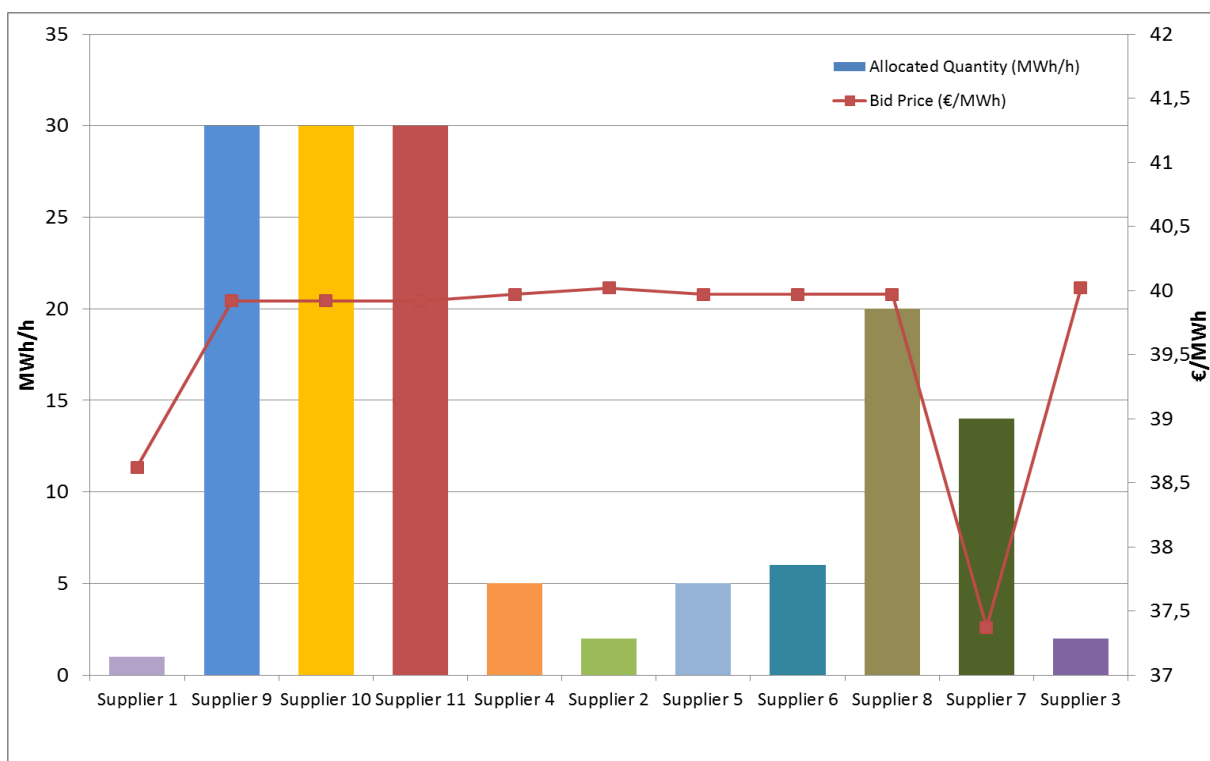
Bid ID	Requested Quantity	Allocated Quantity	Bid Price	Date	Time
268564	2	2	40,02	26/4/2017	14:35:52
268569	2	2	40,02	26/4/2017	14:36:58
268567	20	20	39,97	26/4/2017	14:36:15
268566	6	6	39,97	26/4/2017	14:36:02
268563	5	5	39,97	26/4/2017	14:35:40
268565	5	5	39,97	26/4/2017	14:35:56
268554	30	30	39,92	26/4/2017	14:32:59
268561	30	30	39,92	26/4/2017	14:35:21
268562	30	30	39,92	26/4/2017	14:35:33
268316	1	1	38,62	26/4/2017	13:07:13
268568	25	14	37,37	26/4/2017	14:36:41

Figure.8 Valuation of Bids Allocated for Auction «2017A02P02»

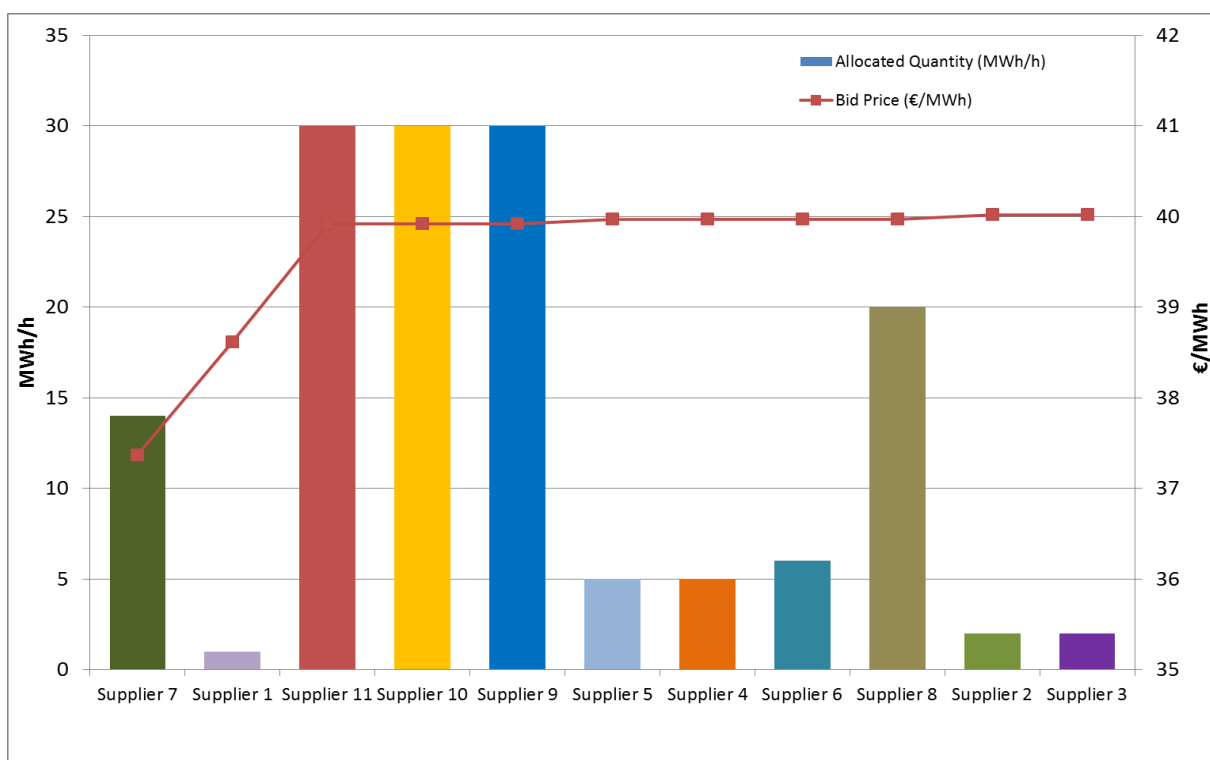


(\*) Allocated Quantity (MWh/h) and Bid Price (€/MWh)

**Figure.9 Final Classification of Bids for Auction «2017A02» (sorted to the submission time)**



**Figure.10 Final Classification of Bids for Auction «2017A02» (sorted to the Bid Price)**



## 4.4 Auction «2017A03»

The Auction «2017A03» was conducted at July 19<sup>th</sup> 2017. The product «2017A03P03» was auctioned according to the approved Technical Specifications (RAE Decision **571/2017**). The Technical Details of the Auction Specifications, the Auctions Procedure and Results are summarized as follows.

### Technical Specifications and procedure for the Auction «2017A03»

Auction	Required Participation Guarantees (€)	Auction Type	Gate Open	Gate Close	Gate Extensions /Duration
2017A03	122.129,73	American / Yankee Auction	19/07/2017 12:00	19/07/2017 12:30	Yes/ 3minutes

### Bids Technical Specifications for the Auction «2017A03»

Auction	Minimum Allocation Quantity (MWh/h)	Minimum Bid Quantity (MWh/h)	Minimum Bid Price Tic (€/MWh)
2017A03	1	1	0,05

### Specifications of Forward Product «2017A03P03»

Forward Product	Volume (MWh)	Quantity (MWh/h)	Physical Delivery Period	Reserve Price (€/MWh)
2017A03P03	1.270.200	145	01/09/2017-31/08/2018	32,05*

(\*) According to the Ministerial Decision, ΑΠΕΗΛ/Γ/Φ1/οικ.178634/04.07.2017 (Government Gazette Β' 2278/04.07.2017)

### Summary of Auction Bids for Auction «2017A03»

Auction	Participants	Valid Bids	Invalid Bids	Total Allocated Quantity
2017A03	18	1615	1181	145 (100%)
	Best Bid Price	Max Allocated Quantity	Max Requested Quantity	Total Requested Quantity /Total Allocated Quantity
	43,05	25	145	164/145

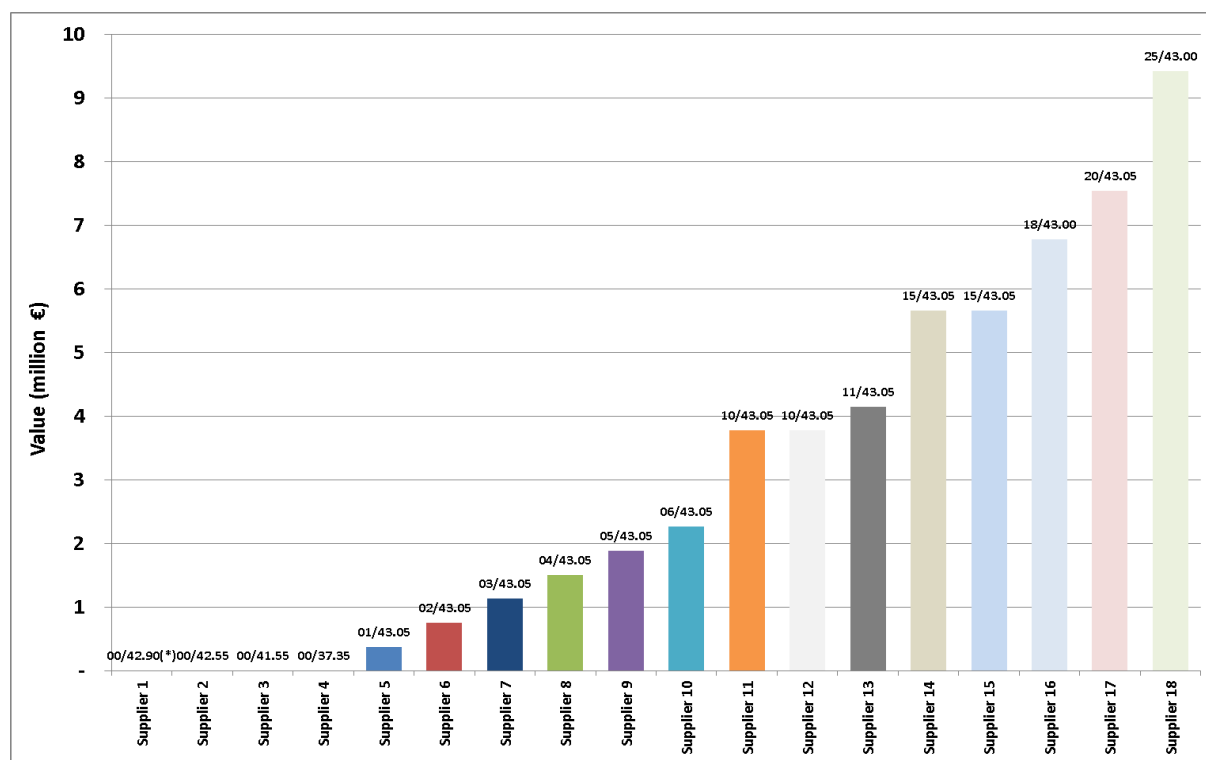
### Summary of Auction Process for Auction «2017A03»

Auction	Gate Open	Gate Close	Extensions	Objections
2017A03	19/07/2017 12:00	19/07/2017 15:15	55	0

Table.7 Bids Final Classification Table for Auction «2017A03»

Bid ID	Requested Quantity	Allocated Quantity	Bid Price	Date	Time
274260	1	1	43,05	19/7/2017	14:57:30
274261	2	2	43,05	19/7/2017	14:57:46
274263	3	3	43,05	19/7/2017	15:00:22
274264	4	4	43,05	19/7/2017	15:00:50
274265	5	5	43,05	19/7/2017	15:01:12
274266	6	6	43,05	19/7/2017	15:01:21
274267	10	10	43,05	19/7/2017	15:01:31
274270	10	10	43,05	19/7/2017	15:03:32
274269	11	11	43,05	19/7/2017	15:03:07
274271	15	15	43,05	19/7/2017	15:06:56
274272	15	15	43,05	19/7/2017	15:08:37
274273	20	20	43,05	19/7/2017	15:09:04
274241	20	18	43,00	19/7/2017	14:50:32
274268	25	25	43,00	19/7/2017	15:02:27
274224	4	0	42,90	19/7/2017	14:32:45
274103	10	0	42,55	19/7/2017	13:50:51
273876	1	0	41,55	19/7/2017	13:06:07
273039	2	0	37,35	19/7/2017	12:18:40

Figure.11 Valuation of Bids Allocated for Auction «2017A03P03»



(\*) Allocated Quantity (MWh/h) and Bid Price (€/MWh)

Figure.12 Final Classification of Bids for Auction «2017A03» (sorted to the submission time)

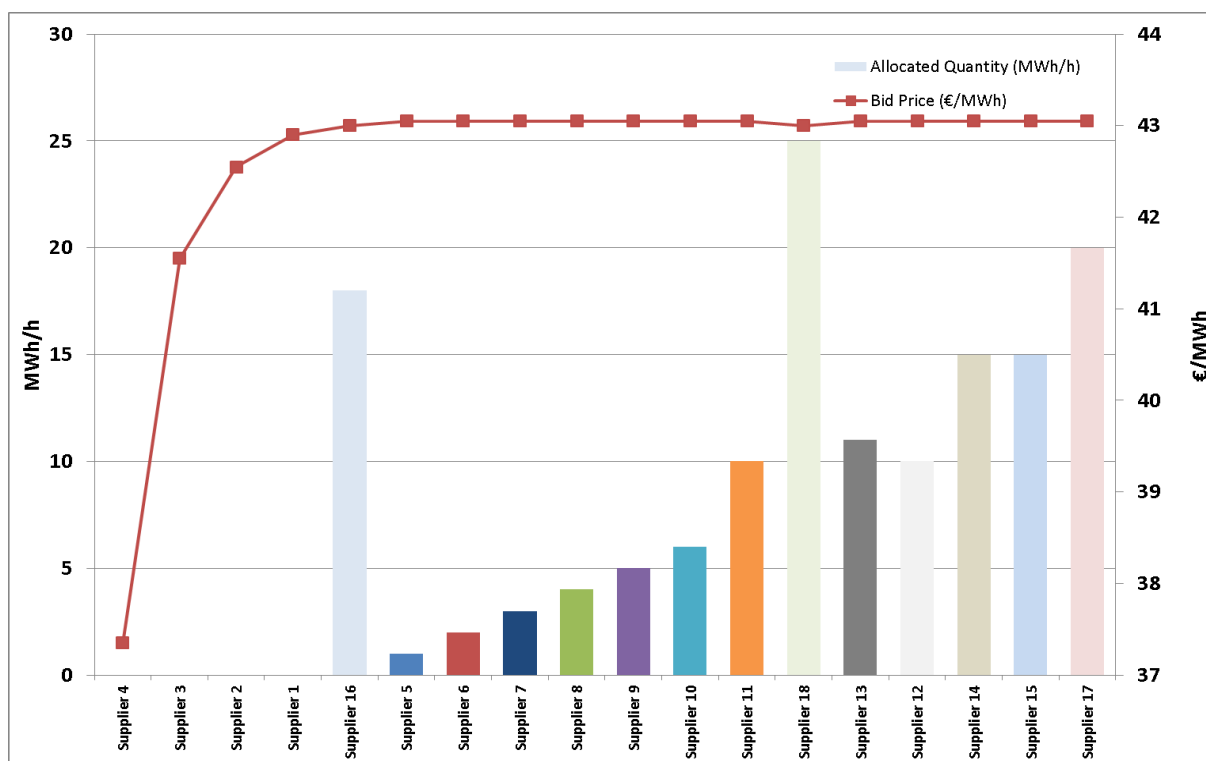
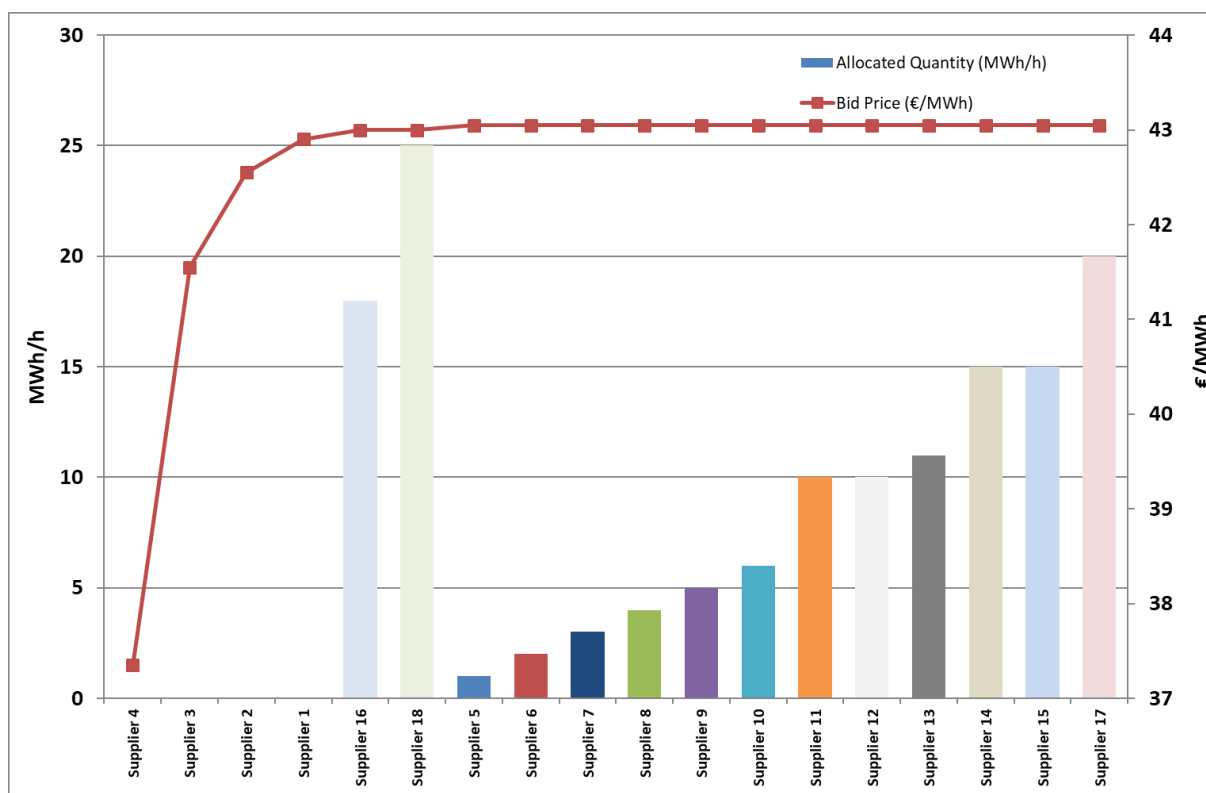


Figure.13 Final Classification of Bids for Auction «2017A03» (sorted to the Bid Price)



## 4.5 Auction «2017A04»

The Auction «2017A04» was conducted at October 25<sup>th</sup> 2017. The product «2017A04P04» was auctioned according to the approved Technical Specifications (RAE Decision **870/2017**). The Technical Details of the Auction Specifications, the Auctions Procedure and Results are summarized as follows.

### Technical Specifications and procedure for the Auction «2017A04»

Auction	Required Participation Guarantees (€)	Auction Type	Gate Open	Gate Close	Gate Extensions /Duration
2017A04	604.752,73	American / Yankee Auction	25/10/2017 12:00	25/10/2017 12:30	Yes/ 3minutes

### Bids Technical Specifications for the Auction «2017A04»

Auction	Minimum Allocation Quantity (MWh/h)	Minimum Bid Quantity (MWh/h)	Minimum Bid Price Tic (€/MWh)
2017A04	1	1	0,05

### Specifications of Forward Product «2017A04P04»

Forward Product	Volume (MWh)	Quantity (MWh/h)	Physical Delivery Period	Reserve Price (€/MWh)
2017A04P04	6.289.680	718	01/12/2017 – 30/11/2018	32,05*

(\*) According to the Ministerial Decision, ΑΠΕΗΛ/Γ/Φ1/οικ.178634/04.07.2017 (Government Gazette B' 2278/04.07.2017)

### Summary of Auction Bids for Auction «2017A04»

Auction	Participants	Valid Bids	Invalid Bids	Total Allocated Quantity
2017A04	19	5097	92	718 (100%)
	Best Bid Price	Max Allocated Quantity	Max Requested Quantity	Total Requested Quantity /Total Allocated Quantity
	45,25	160	311	739/718

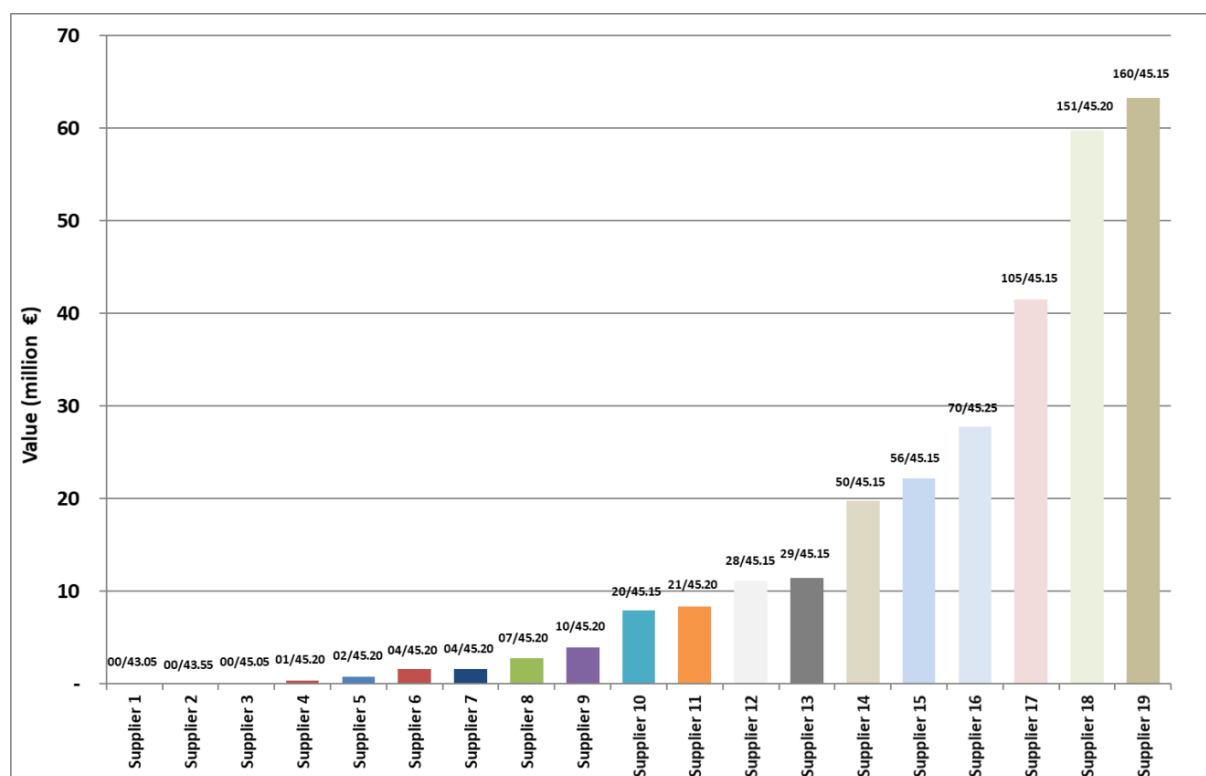
### Summary of Auction Process for Auction «2017A04»

Auction	Gate Open	Gate Close	Extensions	Objections
2017A04	25/10/2017 12:00	26/10/2017 01:03	251	0

Table.8 Bids Final Classification Table for Auction «2017A04»

Bid ID	Requested Quantity	Allocated Quantity	Bid Price	Date	Time
286616	70	70	45,25	26/10/2017	0:39:53
286604	151	151	45,2	26/10/2017	0:26:05
286629	21	21	45,2	26/10/2017	0:57:09
286587	10	10	45,2	26/10/2017	0:12:07
286628	7	7	45,2	26/10/2017	0:56:57
286626	4	4	45,2	26/10/2017	0:55:34
286627	4	4	45,2	26/10/2017	0:55:48
286602	2	2	45,2	26/10/2017	0:23:29
286610	1	1	45,2	26/10/2017	0:32:41
286625	160	160	45,15	26/10/2017	0:54:13
286623	105	105	45,15	26/10/2017	0:51:15
286624	56	56	45,15	26/10/2017	0:53:31
286619	50	50	45,15	26/10/2017	0:46:56
286599	29	29	45,15	26/10/2017	0:22:36
286594	28	28	45,15	26/10/2017	0:19:54
286591	25	20	45,15	26/10/2017	0:16:32
286555	5	0	45,05	25/10/2017	23:44:05
285821	8	0	43,55	25/10/2017	19:46:42
285521	3	0	43,05	25/10/2017	18:47:35

Figure.14 Valuation of Bids Allocated for Auction «2017A04P04»



(\*) Allocated Quantity (MWh/h) and Bid Price (€/MWh)

Figure.15 Final Classification of Bids for Auction «2017A04» (sorted to the submission time)

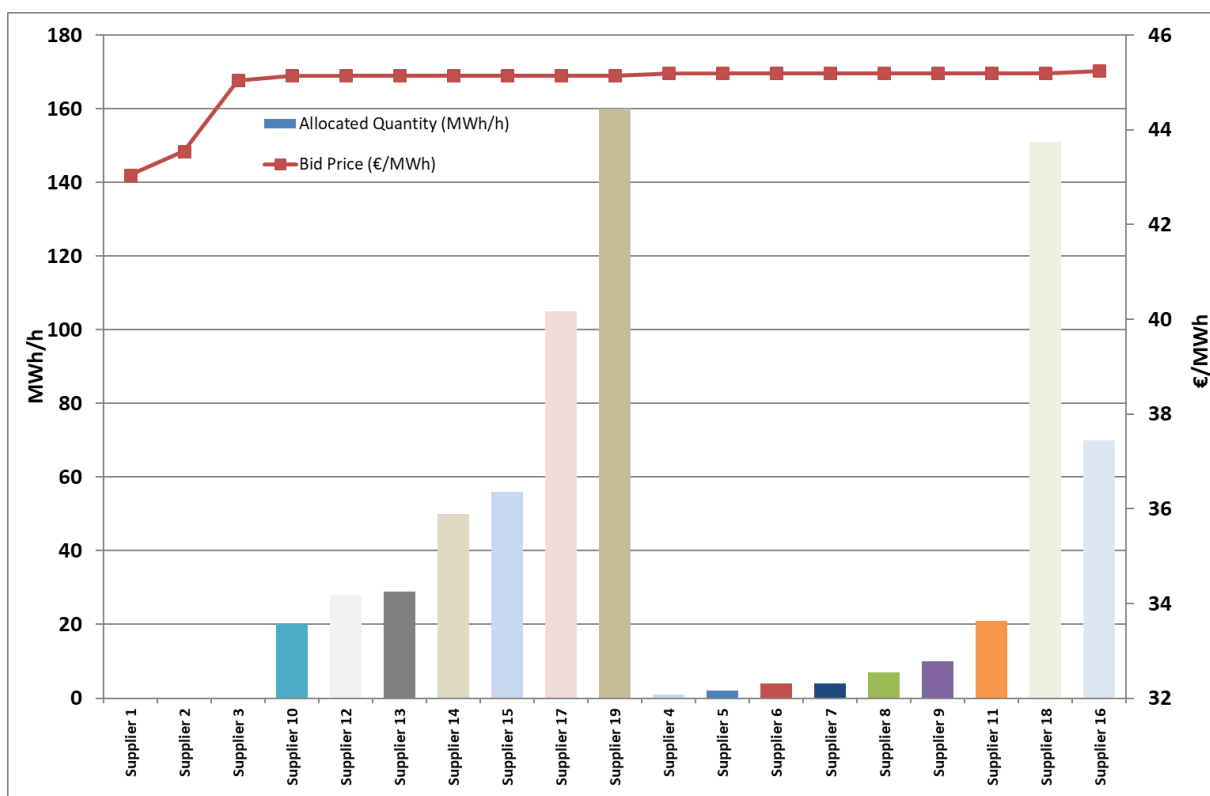
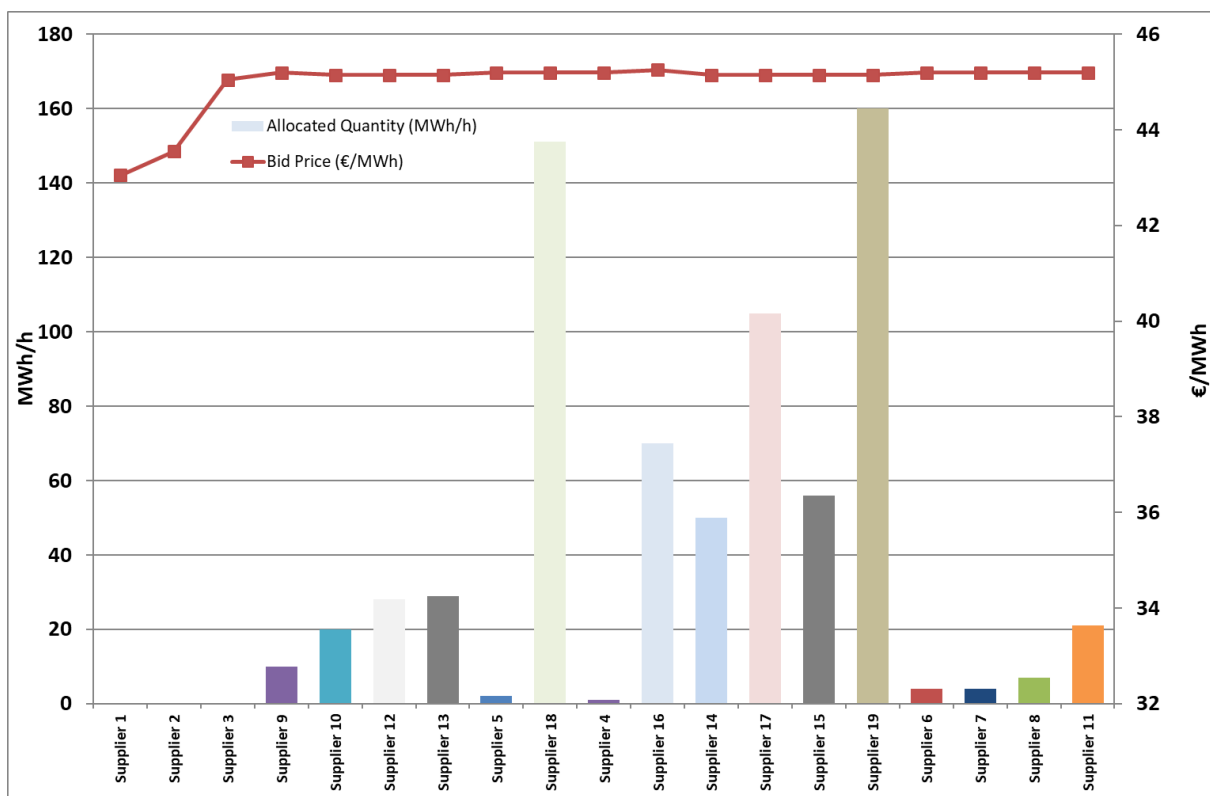


Figure.16 Final Classification of Bids for Auction «2017A04» (sorted to the Bid Price)



## 5. Secondary Market

A Secondary Market where both Eligible Suppliers and Eligible Traders can transparently exchange quantities of Monthly Forward Sub-Products has been established and operates continuously. The following Table.8 summarizes the Secondary Market operation for each Delivery Month for each Forward Product.

Table.9 FEPAS Secondary Market Summary for Monthly Forward Sub-products up 10/2017

Delivery Month	2016A01P01 (460 MWh/h) Gate Opening: 31/10/2016				2017A01P01 (145MWh/h) Gate Opening: 07/02/2017				2017A02P02 (145 MWh/h) Gate Opening: 22/05/2017				2017A03P03 (145 MWh/h) Gate Opening: 27/07/2017			
	No Transfers	Transferred Quantities (MWh/h)	WAvg Transfer Price	Wavg Bid Price	No Transfers	Transferred Quantities (MWh/h)	WAvg Transfer Price	Wavg Bid Price	No Transfers	Transferred Quantities (MWh/h)	WAvg Transfer Price	Wavg Bid Price	No Transfers	Transferred Quantities (MWh/h)	WAvg Transfer Price	Wavg Bid Price
2016 12 Gate Closure: 16/11/16 15:00	2	17	30.059	37.5												
2017 01 Gate Closure: 15/12/16 15:00	2	12	39	37.5												
2017 02 Gate Closure: 17/01/17 15:00	2	11	42	37.5												
2017 03 Gate Closure: 15/02/17 15:00	2	9	41.111	37.5	4	19	41.612	41.056								
2017 04 Gate Closure: 17/03/17 15:00	2	9	40.222	37.5	4	19	41.122	41.056								
2017 05 Gate Closure: 18/04/17 15:00	3	8	41.5	37.5	5	24	41.665	41.055								
2017 06 Gate Closure: 17/05/17 15:00	1	6	39.5	37.5	4	12	41.323	41.056	1	3	39.97	39.97				
2017 07 Gate Closure: 18/06/17 15:00	2	9	46.733	37.442	5	22	44.667	41.055								
2017 08 Gate Closure: 18/07/17 15:00	1	6	42.5	37.5	3	14	42.5	41.057								
2017 09 Gate Closure: 18/09/17 15:00	1	9	39	37.5	3	15	42.48	41.057					5	39	44.013	43.05
2017 10 Gate Closure: 18/10/17 15:00	2	9	41.333	37.5	3	13	42.346	41.058					8	38	43.766	43.05



Where:

Transfers:	Number of Transfers effectuated.
Transferred Quantities (MWh/h):	Total Quantity of the Monthly Forward Sub-products transferred in the Secondary Market.
WAvg Transfer Price (€/MWh):	Weighted Average Price of the Transfers effectuated.
WAvg Bid Price (€/MWh):	Weighted Average Price of the Auction Bids (related to the Primary Market).
Gate Opening/Closure:	Date and Time of Gate Open/Close for the Secondary Market operation and Transfers relevant to the Delivery Month.

## 6. Nominations of Forward Monthly Sub-products

The Nominations of Monthly Sub-products are effectuated after the Secondary Market Gate Closure of the relevant Delivery Month. The holders of Monthly Forward Sub-products are nominating the usage of quantities of the Monthly Sub-products for physical delivery on a monthly basis (for each Dispatch Day and Dispatch Period of the delivery month). The following Table.10 summarizes the Usage Declarations provided by the Eligible Suppliers and Traders under the Nomination process for each Delivery Month and for each Forward Product.

**Table.10a FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products up 10/2017**

	Delivery Month	2016A01P01		2017A01P01		2017A02P02		2017A03P03	
		TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE	TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE	TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE	TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE
Elig.Supplier_01	2016 12	108	23.48%						
Elig.Supplier_01	2017 01	108	23.48%						
Elig.Supplier_01	2017 02	108	23.48%						
Elig.Supplier_01	2017 03	108	23.48%	33	22.76%				
Elig.Supplier_01	2017 04	108	23.48%	33	22.76%				
Elig.Supplier_01	2017 05	108	23.48%	33	22.76%				
Elig.Supplier_01	2017 06	108	23.48%	33	22.76%	30	20.69%		
Elig.Supplier_01	2017 07	108	23.48%	33	22.76%	30	20.69%		
Elig.Supplier_01	2017 08	108	23.48%	33	22.76%	30	20.69%		
Elig.Supplier_01	2017 09	108	23.48%	33	22.76%	30	20.69%	25	17.24%
Elig.Supplier_01	2017 10	108		33		30		25	
Elig.Supplier_02	2016 12	110	23.91%						
Elig.Supplier_02	2017 01	105	22.83%						
Elig.Supplier_02	2017 02	111	24.13%						
Elig.Supplier_02	2017 03	113	24.57%	24	16.55%				
Elig.Supplier_02	2017 04	113	24.57%	27	18.62%				
Elig.Supplier_02	2017 05	109	23.70%	29	20.00%				
Elig.Supplier_02	2017 06	111	24.13%	25	17.24%	33	22.76%		
Elig.Supplier_02	2017 07	114	24.78%	28	19.31%	30	20.69%		
Elig.Supplier_02	2017 08	111	24.13%	22	15.17%	30	20.69%		
Elig.Supplier_02	2017 09	114	24.78%	20	13.79%	30	20.69%	24	16.55%
Elig.Supplier_02	2017 10	111		23		30		26	
Elig.Supplier_03	2016 12	97	21.09%						
Elig.Supplier_03	2017 01	97	21.09%						
Elig.Supplier_03	2017 02	97	21.09%						
Elig.Supplier_03	2017 03	97	21.09%	31	21.38%				
Elig.Supplier_03	2017 04	97	21.09%	31	21.38%				
Elig.Supplier_03	2017 05	97	21.09%	31	21.38%				
Elig.Supplier_03	2017 06	97	21.09%	31	21.38%	30	20.69%		
Elig.Supplier_03	2017 07	97	21.09%	31	21.38%	30	20.69%		
Elig.Supplier_03	2017 08	97	21.09%	31	21.38%	30	20.69%		
Elig.Supplier_03	2017 09	97	21.09%	31	21.38%	30	20.69%	15	10.35%
Elig.Supplier_03	2017 10	97		31		30		15	
Elig.Supplier_04	2016 12	53	11.52%						
Elig.Supplier_04	2017 01	53	11.52%						
Elig.Supplier_04	2017 02	53	11.52%						
Elig.Supplier_04	2017 03	53	11.52%	6	4.14%				
Elig.Supplier_04	2017 04	53	11.52%	6	4.14%				
Elig.Supplier_04	2017 05	53	11.52%	1	0.69%				
Elig.Supplier_04	2017 06	53	11.52%	6	4.14%	14	9.66%		
Elig.Supplier_04	2017 07	49	10.65%			14	9.66%		
Elig.Supplier_04	2017 08	53	11.52%	6	4.14%	14	9.66%		
Elig.Supplier_04	2017 09	53	11.52%	6	4.14%	14	9.66%	11	7.59%
Elig.Supplier_04	2017 10	53		6		14		13	
Elig.Supplier_05	2016 12	49	10.65%						
Elig.Supplier_05	2017 01	49	10.65%						
Elig.Supplier_05	2017 02	47	10.22%						
Elig.Supplier_05	2017 03	42	9.13%	15	10.35%				
Elig.Supplier_05	2017 04	42	9.13%	12	8.28%				
Elig.Supplier_05	2017 05	45	9.78%	15	10.35%				
Elig.Supplier_05	2017 06	42	9.13%	12	8.28%	20	13.79%		
Elig.Supplier_05	2017 07	42	9.13%	10	6.90%	20	13.79%		
Elig.Supplier_05	2017 08	42	9.13%	10	6.90%	20	13.79%		
Elig.Supplier_05	2017 09	42	9.13%	10	6.90%	20	13.79%	18	12.41%
Elig.Supplier_05	2017 10	45		10		20		20	



Table.10b FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products up 10/2017

	Delivery Month	2016A01P01		2017A01P01		2017A02P02		2017A03P03	
		TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE	TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE	TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE	TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE
Elig.Supplier_06	2017 01	20	4.35%						
Elig.Supplier_06	2017 02	20	4.35%						
Elig.Supplier_06	2017 03	20	4.35%	6	4.14%				
Elig.Supplier_06	2017 04	20	4.35%	6	4.14%				
Elig.Supplier_06	2017 05	20	4.35%	6	4.14%				
Elig.Supplier_06	2017 06	20	4.35%	6	4.14%	6	4.14%		
Elig.Supplier_06	2017 07	20	4.35%	6	4.14%	6	4.14%		
Elig.Supplier_06	2017 08	20	4.35%	6	4.14%	6	4.14%		
Elig.Supplier_06	2017 09			6	4.14%	6	4.14%	15	10.35%
Elig.Supplier_06	2017 10	20		6		6		15	
Elig.Supplier_07	2016 12	15	3.26%						
Elig.Supplier_07	2017 01	20	4.35%						
Elig.Supplier_07	2017 02	15	3.26%						
Elig.Supplier_07	2017 03	15	3.26%	6	4.14%				
Elig.Supplier_07	2017 04	15	3.26%	6	4.14%				
Elig.Supplier_07	2017 05	15	3.26%	6	4.14%				
Elig.Supplier_07	2017 06	15	3.26%	11	7.59%	5	3.45%		
Elig.Supplier_07	2017 07	15	3.26%	8	5.52%	5	3.45%		
Elig.Supplier_07	2017 08	15	3.26%	8	5.52%	5	3.45%		
Elig.Supplier_07	2017 09	15	3.26%	11	7.59%	5	3.45%	6	4.14%
Elig.Supplier_07	2017 10	15		6		5		6	
Elig.Supplier_08	2017 03			10	6.90%				
Elig.Supplier_08	2017 04			10	6.90%				
Elig.Supplier_08	2017 05			10	6.90%				
Elig.Supplier_08	2017 06			5	3.45%				
Elig.Supplier_08	2017 07			10	6.90%				
Elig.Supplier_08	2017 08			10	6.90%				
Elig.Supplier_08	2017 09			10	6.90%			16	11.03%
Elig.Supplier_08	2017 10			10				12	
Elig.Supplier_09	2017 03			9	6.21%				
Elig.Supplier_09	2017 04			9	6.21%				
Elig.Supplier_09	2017 05			9	6.21%				
Elig.Supplier_09	2017 06			9	6.21%	2	1.38%		
Elig.Supplier_09	2017 07			9	6.21%	2	1.38%		
Elig.Supplier_09	2017 08			9	6.21%	2	1.38%		
Elig.Supplier_09	2017 09			9	6.21%	2	1.38%	3	2.07%
Elig.Supplier_09	2017 10			9		2		3	
Elig.Supplier_10	2016 12	3	0.65%						
Elig.Supplier_10	2017 01	3	0.65%						
Elig.Supplier_10	2017 02	4	0.87%						
Elig.Supplier_10	2017 03	6	1.30%						
Elig.Supplier_10	2017 04	6	1.30%						
Elig.Supplier_10	2017 05	7	1.52%						
Elig.Supplier_10	2017 06	9	1.96%						
Elig.Supplier_10	2017 07	10	2.17%						
Elig.Supplier_10	2017 08	9	1.96%						
Elig.Supplier_10	2017 09	6	1.30%						
Elig.Supplier_10	2017 10	6							
Elig.Supplier_11	2016 12	2	0.44%						
Elig.Supplier_11	2017 01	2	0.44%						
Elig.Supplier_11	2017 02	2	0.44%						
Elig.Supplier_11	2017 03	3	0.65%						
Elig.Supplier_11	2017 04	3	0.65%						
Elig.Supplier_11	2017 05	3	0.65%						
Elig.Supplier_11	2017 06	2	0.44%			2	1.38%		
Elig.Supplier_11	2017 07	2	0.44%			2	1.38%		
Elig.Supplier_11	2017 08	2	0.44%			2	1.38%		
Elig.Supplier_11	2017 09	2	0.44%			2	1.38%		
Elig.Supplier_11	2017 10	2				2			
Elig.Supplier_12	2017 03			2	1.38%				
Elig.Supplier_12	2017 04			2	1.38%				
Elig.Supplier_12	2017 05			2	1.38%				
Elig.Supplier_12	2017 06			3	2.07%	2	1.38%		
Elig.Supplier_12	2017 07			2	1.38%	5	3.45%		
Elig.Supplier_12	2017 08			4	2.76%	5	3.45%		
Elig.Supplier_12	2017 09			4	2.76%	5	3.45%		
Elig.Supplier_12	2017 10			6		5		1	



**Table.10c FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products up 10/2017**

	Delivery Month	2016A01P01		2017A01P01		2017A02P02		2017A03P03	
		TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE	TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE	TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE	TOTAL NOM USG MW	PRODUCT USG_DCL_ SHARE
Elig.Supplier_13	2016 12	2	0.44%						
Elig.Supplier_13	2017 01	2	0.44%						
Elig.Supplier_13	2017 02	2	0.44%						
Elig.Supplier_13	2017 03	2	0.44%	1	0.69%				
Elig.Supplier_13	2017 04	2	0.44%	1	0.69%				
Elig.Supplier_13	2017 05	2	0.44%	1	0.69%				
Elig.Supplier_13	2017 06	2	0.44%	1	0.69%				
Elig.Supplier_13	2017 07	2	0.44%	1	0.69%				
Elig.Supplier_13	2017 08	2	0.44%	1	0.69%				
Elig.Supplier_13	2017 09	2	0.44%	1	0.69%				
Elig.Supplier_13	2017 10	2		1					
Elig.Supplier_14	2017 03			1	0.69%				
Elig.Supplier_14	2017 04			1	0.69%				
Elig.Supplier_14	2017 05			1	0.69%				
Elig.Supplier_14	2017 06			1	0.69%	1	0.69%		
Elig.Supplier_14	2017 07			3	2.07%	1	0.69%		
Elig.Supplier_14	2017 08			3	2.07%	1	0.69%		
Elig.Supplier_14	2017 09			3	2.07%	1	0.69%		
Elig.Supplier_14	2017 10			2		1			
Elig.Supplier_15	2016 12	1	0.22%						
Elig.Supplier_15	2017 01	1	0.22%						
Elig.Supplier_15	2017 02	1	0.22%						
Elig.Supplier_15	2017 03	1	0.22%						
Elig.Supplier_15	2017 04	1	0.22%						
Elig.Supplier_15	2017 05	1	0.22%						
Elig.Supplier_15	2017 06	1	0.22%						
Elig.Supplier_15	2017 07	1	0.22%						
Elig.Supplier_15	2017 08	1	0.22%						
Elig.Supplier_15	2017 09	1	0.22%					1	0.69%
Elig.Supplier_15	2017 10	1						1	
Elig.Supplier_16	2017 03			1	0.69%				
Elig.Supplier_16	2017 04			1	0.69%				
Elig.Supplier_16	2017 05			1	0.69%				
Elig.Supplier_16	2017 06			2	1.38%				
Elig.Supplier_16	2017 07			2	1.38%				
Elig.Supplier_16	2017 08			2	1.38%				
Elig.Supplier_16	2017 09			1	0.69%			2	1.38%
Elig.Supplier_16	2017 10			2				2	
Elig.Supplier_17	2017 09							5	3.45%
Elig.Supplier_17	2017 10							5	
Elig.Trader_01	2017 09							4	2.76%
Elig.Trader_01	2017 10							1	
Elig.Trader_02	2017 07			2	1.38%				

**Where:**

TOTAL NOM USG (MW):

Total Quantity of Usage Declarations (Nominated Quantity) for the Monthly Sub-product.

PRODUCT\_USG\_DCL\_SHARE %):

Total Quantity of Usage Declarations (Nominated Quantity) for the Monthly Sub-product as a percentage of the Total Sub-product quantity.

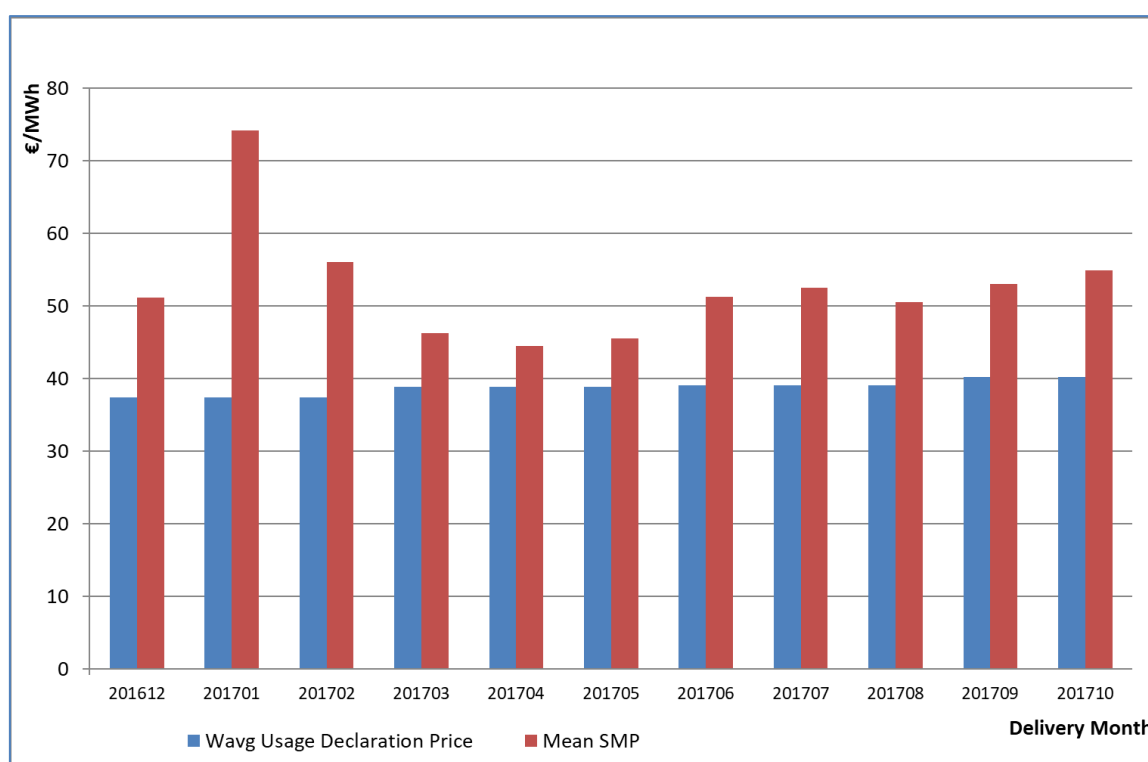
## 7. Supplementary Clearing of the Nominated Forward Daily/Hourly Sub-products in the Day-Ahead Market (DAS)

The market cycle of the Forward Electricity Products is concluded with the Supplementary Clearing of the Nominated Forward Daily/Hourly Sub-products in the Day-Ahead Market (DAS). Taking into consideration the actual market participation of the Eligible Suppliers and Traders (Load Declarations for domestic consumers and exports), the quantities of the Nominated Monthly Forward Sub-products, the valuation of the quantities via the FEPAS Bid Prices and DAS SMP prices LAGIE calculates the benefit/loss for each Eligible Supplier and Trader as specified in the PECFEPAS provisions.

### Weighted Average Price of Usage Declarations

Figure 17. illustrates the Monthly Average System Marginal Price of the Day-Ahead Market (SMP in red colour) and the Weighted Monthly Average Price of the quantities of the effectuated Usage Declarations/Nominations (in blue colour) related to the corresponding Bid Auction Price. The Secondary Market Prices are not included in the latter.

**Figure.17 Weighted Monthly Average Price of the effectuated Usage Declarations/Nominations and Monthly Average System Marginal Price of the DAS**



**Benefit of the Eligible Suppliers and Traders**

Table.11 summarizes the benefit (or equivalently the transfer of market surplus of PPC) of the Eligible Suppliers and Traders, for each Delivery Month and in Total, up to October 2017. Column ‘DAS\_DAEP’ presents the original valuation of their total Day-Ahead Energy Purchases in (€) while the column “NASC+NASC\_OBLM” presents the relative to the quantities of the Usage Declarations Net Amounts of the Supplementary Clearing which represent the aforesaid benefit. The Secondary Market prices are not used under the Supplementary Clearing. The Net Amounts of the Supplementary clearing correspond to the 92% of the valuation of the Usage Declarations (the 8% is prepaid by the Eligible Suppliers to PPC).

**Table.11 Benefit of the Eligible Suppliers and Traders according to the DAS Supplementary Clearing results**

Delivery Month	12 2016		First Quarter 2017		Second Quarter 2017		Third Quarter 2017		10 2017		12 2016 – 10 2017
	DAS_DAEP (€)	NASC + NASC OBLM (€)	DAS_DAEP (€)	NASC + NASC OBLM (€)	DAS_DAEP (€)	NASC + NASC OBLM (€)	DAS_DAEP (€)	NASC + NASC OBLM (€)	DAS_DAEP (€)	NASC + NASC OBLM (€)	NASC + NASC OBLM Total (€)
Elig.Supplier_01	6,411,493	- 1,321,806	23,007,156	- 5,919,033	19,524,237	- 3,924,610	26,602,320	- 6,441,228	9,312,848	- 2,703,125	- 20,309,802
Elig.Supplier_02	7,078,327	- 1,367,094	23,030,923	- 5,901,807	19,766,991	- 3,950,893	26,840,011	- 6,369,191	8,685,371	- 2,637,244	- 20,226,228
Elig.Supplier_03	6,089,371	- 1,205,193	24,280,127	- 5,368,249	18,896,774	- 3,626,571	25,747,180	- 5,914,237	8,729,488	- 2,401,708	- 18,515,958
Elig.Supplier_04	2,043,143	- 546,503	9,038,702	- 2,830,052	6,913,649	- 1,719,715	9,077,410	- 2,780,792	3,570,809	- 1,168,343	- 9,045,405
Elig.Supplier_05	2,134,288	- 573,107	7,452,556	- 2,563,578	6,797,191	- 1,601,960	9,992,997	- 2,755,641	3,715,152	- 1,230,650	- 8,724,936
Elig.Supplier_06	1,290,481	- 248,643	4,666,922	- 1,105,530	4,554,052	- 744,715	6,560,251	- 1,309,835	2,158,581	- 623,126	- 4,031,849
Elig.Supplier_07	1,749,159	- 185,805	5,196,926	- 975,762	3,538,863	- 629,736	5,933,926	- 1,068,884	1,653,725	- 431,051	- 3,291,238
Elig.Supplier_08			2,282,147	- 39,939	9,738,963	- 93,066	14,638,126	- 445,769	6,321,148	- 162,416	- 741,190
Elig.Supplier_09			357,718	- 47,008	1,276,530	- 188,599	2,121,181	- 365,082	592,997	- 128,899	- 729,588
Elig.Supplier_10	103,512	- 32,971	386,632	- 150,075	380,170	- 86,825	600,160	- 168,682	259,002	- 75,109	- 513,662
Elig.Supplier_11	88,261	- 22,435	304,594	- 114,811	337,400	- 89,180	455,607	- 143,673	159,987	- 56,367	- 426,465
Elig.Supplier_12			50,905	- 9,466	283,321	- 60,925	796,735	- 209,465	406,664	- 121,701	- 401,557
Elig.Supplier_13	102,435	- 20,695	368,404	- 84,786	306,369	- 28,673	336,418	- 46,338	125,464	- 17,397	- 197,890
Elig.Supplier_14	62,496	- 12,425	21,233	- 3,811	215,174	- 31,599	441,560	- 106,337	108,384	- 31,934	- 173,681
Elig.Supplier_15			258,178	- 53,377	168,701	- 27,958	210,076	- 48,674	91,052	- 26,643	- 169,078
Elig.Supplier_16			7,325	- 1,406	89,101	- 20,589	315,692	- 66,046	138,712	- 33,920	- 121,962
Elig.Supplier_17			-	-	-	-	462,497	- 46,770	641,950	- 56,892	- 103,661
Elig.Trader_01			-	-	-	-	154,316	- 37,416	54,232	- 7,467	- 44,883
Elig.Trader_02			-	-	-	-	1,432,065	- 13,299	-	-	- 13,299
<b>Total</b>	<b>27,152,965</b>	<b>- 5,536,678</b>	<b>100,710,448</b>	<b>- 25,168,689</b>	<b>92,787,486</b>	<b>- 16,825,616</b>	<b>132,718,528</b>	<b>- 28,337,359</b>	<b>46,725,566</b>	<b>- 11,913,991</b>	<b>- 87,782,332</b>

**Where:**

DAS\_DAEP (€): The debit of the eligible Supplier/ Trader for the Load Declarations which were included in DAS during the reference month of physical delivery.

NASC+NASC\_OBLM (€): The net value of the debits/credit of the eligible Supplier/ Trader from the Supplementary DAS clearing according to article 41 of the Power Exchange Code for Forward Electricity Products Auctions, which represent the benefit from the usage of the Forward Products over the physical delivery month.

**The final debit of the eligible Supplier/ Trader is equal to: DAS\_DAEP+NASC+NASC OBLM**

### Utilization Factor of Daily Sub-Products in DAS

According to article 14 of PECFEPAS the Forward Electricity Products are defined as base products, i.e. with a fixed quantity for each dispatch period in its duration, which must be delivered physically and the aim of the Mechanism is to use these Products to meet the base load needs. For the monitoring of the right usage of the Products, the Market Operator has defined an Utilization Factor  $UF_{i,t}$  for every Use Beneficiary (Holder)  $i$  for every dispatch period  $t$ :

$$UF_{i,t} = \frac{\min(\sum_{u=1}^U DAOD_{i,u,t}, \sum_a^A \sum_s^S NQ_{i,m,s,a})}{\sum_a^A \sum_s^S NQ_{i,m,s,a}}$$

Where:

$NQ_{i,m,s,a}$	The quantity of monthly sub-forwards, in MWh/h, of use declaration $s$ from Holder $i$ for the month $m$ . The quantity corresponds to the total or part of the purchase declaration of the final classification table of purchase declarations of auction $a$ for forward $p$ .
$DAOD_{i,u,t}$	Load declaration $u$ of Holder $i$ submitted to DAS for dispatch period $t$ for customers that consume energy in the interconnected system and network and/or load declaration $u$ for exports, without prejudice to Article 40(2), provided that this declaration has been included in the DAS schedule of dispatch day $d$ .

Figure.18, Table.12 and Table.13 illustrate the fluctuation of the Mean Hourly Utilization Factor of the Daily Sub-products:

- For all Holders and delivery months December 2016 – October 2017
- For each Holder during period: 01/12/2016 – 31/10/2017

The Utilization Factor is calculated:

- For all days (Avg Hourly UF (All-Days))
- For working days only (Avg Hourly UF (Working-Days)).

**Figure.18a Mean Hourly Utilization Factor of Daily Sub-Products for every physical delivery month.**



**Γράφημα.18β Μέσος Ωριαίος Συντελεστής Χρήσης Ημερησίων Υποπροϊόντων ανά μήνα φυσικής παράδοσης**

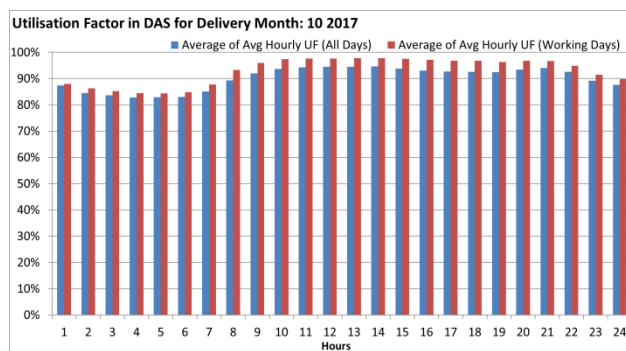




Table.12 Mean Hourly Utilization Factor of Daily Sub-Products for every physical delivery month.

Delivery month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg. UFs
201612	All Days	88%	86%	86%	86%	86%	86%	90%	93%	95%	96%	97%	97%	97%	97%	96%	96%	96%	96%	96%	96%	95%	94%	91%	89%	93%
	Working Days	88%	87%	87%	87%	86%	87%	92%	96%	98%	99%	99%	99%	99%	99%	99%	98%	98%	98%	98%	97%	97%	96%	92%	90%	94%
201701	All Days	92%	90%	90%	90%	89%	89%	92%	96%	97%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	97%	95%	94%	95%
	Working Days	93%	91%	90%	90%	89%	90%	95%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	99%	98%	95%	94%	97%
201702	All Days	92%	92%	92%	92%	92%	92%	94%	96%	97%	98%	98%	99%	99%	99%	98%	98%	98%	97%	97%	97%	97%	97%	93%	92%	96%
	Working Days	93%	92%	92%	92%	92%	92%	96%	98%	98%	99%	100%	100%	100%	100%	100%	99%	99%	99%	99%	98%	98%	98%	93%	93%	97%
201703	All Days	81%	79%	79%	79%	79%	79%	81%	84%	86%	87%	87%	87%	87%	87%	86%	86%	85%	85%	86%	86%	86%	85%	81%	80%	84%
	Working Days	82%	80%	80%	80%	80%	80%	84%	86%	88%	90%	90%	90%	90%	89%	89%	89%	89%	88%	89%	88%	88%	87%	82%	81%	86%
201704	All Days	85%	84%	83%	82%	82%	82%	84%	87%	88%	89%	89%	90%	90%	90%	90%	89%	88%	88%	87%	88%	89%	89%	87%	85%	87%
	Working Days	87%	85%	84%	84%	84%	85%	88%	91%	93%	93%	94%	94%	94%	94%	94%	93%	93%	92%	92%	92%	92%	92%	89%	87%	90%
201705	All Days	90%	88%	87%	87%	86%	86%	88%	90%	92%	94%	94%	94%	95%	95%	94%	93%	93%	93%	92%	91%	93%	93%	90%	89%	91%
	Working Days	89%	89%	88%	87%	87%	88%	90%	93%	94%	96%	96%	96%	96%	96%	96%	95%	95%	95%	95%	94%	95%	94%	91%	90%	93%
201706	All Days	86%	82%	80%	80%	80%	80%	82%	85%	89%	91%	92%	92%	92%	92%	91%	91%	90%	90%	90%	90%	90%	90%	87%	85%	87%
	Working Days	87%	84%	82%	82%	82%	82%	85%	89%	93%	95%	96%	96%	96%	96%	96%	96%	95%	95%	94%	94%	94%	93%	89%	88%	91%
201707	All Days	85%	84%	84%	84%	84%	84%	85%	86%	91%	93%	94%	94%	94%	94%	94%	94%	94%	94%	93%	93%	93%	93%	91%	89%	90%
	Working Days	86%	85%	85%	85%	85%	86%	87%	90%	96%	97%	98%	98%	98%	98%	98%	98%	97%	97%	97%	97%	97%	96%	93%	91%	93%
201708	All Days	92%	91%	91%	91%	91%	91%	91%	93%	94%	95%	95%	96%	96%	96%	95%	95%	95%	94%	94%	94%	94%	94%	92%	92%	93%
	Working Days	93%	92%	91%	91%	92%	92%	93%	95%	96%	97%	97%	98%	98%	98%	98%	97%	97%	97%	96%	96%	96%	95%	94%	93%	95%
201709	All Days	91%	92%	91%	91%	91%	91%	92%	94%	96%	97%	97%	98%	98%	98%	97%	97%	97%	96%	96%	96%	96%	96%	94%	92%	95%
	Working Days	92%	92%	92%	91%	91%	92%	94%	96%	98%	99%	99%	100%	100%	100%	100%	99%	99%	99%	99%	98%	98%	98%	95%	94%	96%
201710	All Days	87%	84%	84%	83%	83%	83%	85%	89%	92%	94%	94%	94%	94%	95%	94%	93%	93%	93%	92%	93%	94%	93%	89%	88%	90%
	Working Days	88%	86%	85%	84%	84%	85%	88%	93%	96%	97%	98%	98%	98%	98%	98%	97%	97%	97%	96%	97%	97%	95%	91%	90%	93%



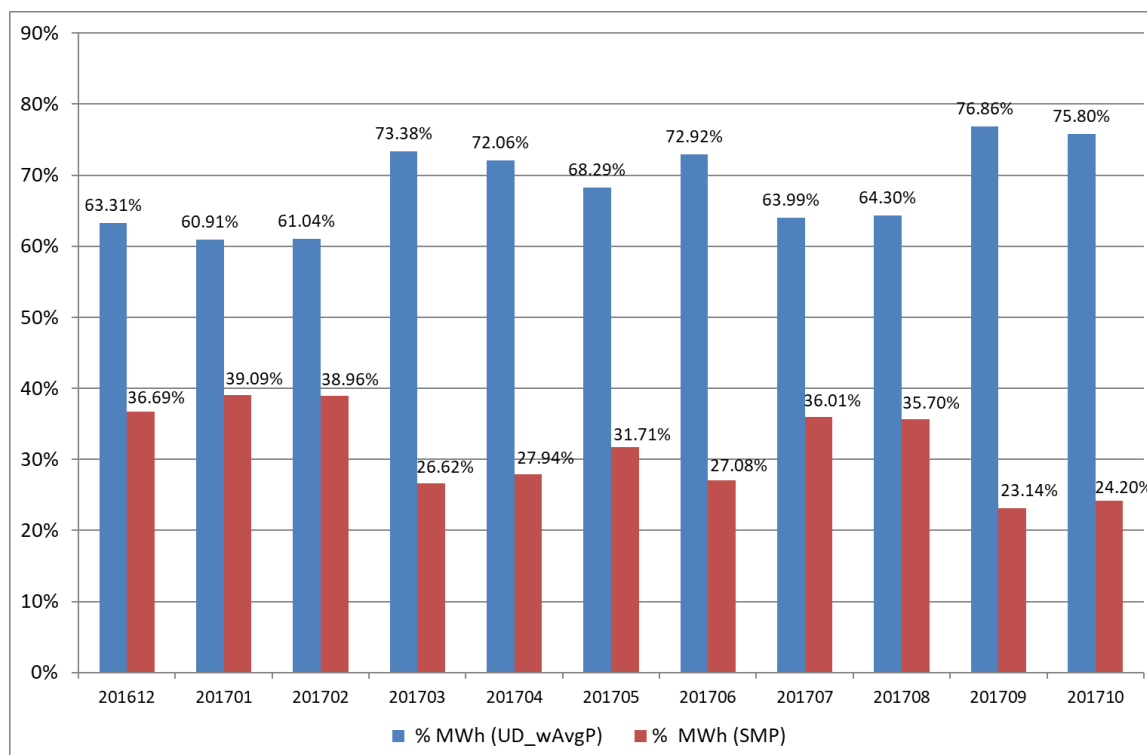
Table.13 Mean Hourly Utilization Factor of Daily Sub-Products for every eligible supplier/ trader for the period: 01/12/2016 – 31/10/2017

Eligible Supplier/ Trader	days	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg. UFs
Elig.Supplier_01	All Days	98%	97%	96%	96%	96%	96%	97%	98%	98%	99%	99%	99%	99%	99%	98%	98%	98%	98%	99%	99%	99%	99%	99%	98%	98%
Elig.Supplier_01	Working Days	98%	98%	97%	97%	97%	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%
Elig.Supplier_02	All Days	99%	99%	98%	97%	97%	97%	98%	99%	99%	99%	100%	100%	100%	100%	100%	100%	100%	99%	99%	100%	100%	100%	100%	100%	99%
Elig.Supplier_02	Working Days	99%	99%	98%	98%	98%	98%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Elig.Supplier_03	All Days	99%	99%	99%	98%	98%	98%	99%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%
Elig.Supplier_03	Working Days	99%	99%	99%	99%	99%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Elig.Supplier_04	All Days	94%	94%	93%	94%	94%	94%	95%	96%	97%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	97%	96%	95%	97%
Elig.Supplier_04	Working Days	95%	94%	94%	94%	94%	94%	96%	98%	99%	100%	100%	100%	100%	100%	100%	99%	99%	99%	99%	99%	99%	98%	97%	96%	98%
Elig.Supplier_05	All Days	95%	93%	93%	93%	93%	93%	94%	96%	97%	98%	99%	99%	99%	99%	99%	98%	98%	98%	99%	99%	99%	99%	99%	97%	97%
Elig.Supplier_05	Working Days	95%	93%	94%	94%	94%	94%	95%	98%	99%	99%	100%	100%	100%	100%	100%	99%	99%	99%	99%	99%	100%	100%	99%	98%	98%
Elig.Supplier_06	All Days	99%	99%	99%	99%	99%	99%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%
Elig.Supplier_06	Working Days	99%	99%	99%	99%	99%	99%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Elig.Supplier_07	All Days	97%	95%	94%	94%	93%	94%	95%	97%	99%	99%	100%	100%	100%	100%	100%	100%	99%	99%	99%	99%	100%	100%	99%	98%	98%
Elig.Supplier_07	Working Days	98%	95%	94%	94%	93%	94%	96%	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	98%	98%
Elig.Supplier_09	All Days	97%	93%	89%	87%	86%	87%	90%	96%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	97%
Elig.Supplier_09	Working Days	97%	92%	89%	86%	85%	87%	92%	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	97%
Elig.Supplier_08	All Days	86%	75%	73%	74%	75%	74%	73%	75%	82%	85%	86%	85%	85%	85%	86%	86%	85%	83%	82%	86%	90%	90%	86%	82%	82%
Elig.Supplier_08	Working Days	87%	82%	80%	80%	81%	81%	80%	81%	91%	96%	95%	92%	92%	90%	91%	91%	92%	91%	91%	94%	94%	94%	90%	87%	88%
Elig.Supplier_10	All Days	60%	56%	55%	53%	52%	51%	55%	60%	66%	70%	73%	75%	76%	77%	75%	73%	71%	70%	69%	69%	70%	69%	66%	64%	66%
Elig.Supplier_10	Working Days	63%	59%	57%	56%	54%	53%	59%	66%	72%	77%	79%	81%	82%	83%	82%	80%	78%	77%	76%	75%	76%	73%	70%	67%	71%
Elig.Supplier_11	All Days	97%	97%	97%	97%	97%	97%	97%	98%	98%	98%	98%	98%	98%	97%	97%	97%	98%	98%	98%	98%	98%	98%	98%	97%	97%
Elig.Supplier_11	Working Days	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%
Elig.Supplier_12	All Days	80%	78%	77%	78%	77%	76%	78%	79%	82%	84%	85%	86%	86%	86%	85%	83%	83%	82%	82%	83%	84%	84%	83%	81%	82%
Elig.Supplier_12	Working Days	83%	82%	81%	82%	82%	81%	85%	88%	92%	94%	95%	95%	95%	96%	95%	94%	93%	93%	93%	93%	94%	94%	93%	90%	90%
Elig.Supplier_13	All Days	58%	61%	61%	61%	61%	62%	73%	88%	92%	92%	91%	91%	91%	91%	85%	84%	86%	85%	84%	79%	79%	73%	46%	43%	76%
Elig.Supplier_13	Working Days	59%	61%	61%	60%	60%	62%	82%	99%	100%	100%	100%	100%	100%	100%	99%	98%	98%	98%	96%	91%	90%	81%	46%	43%	83%
Elig.Supplier_15	All Days	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Elig.Supplier_15	Working Days	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Elig.Supplier_14	All Days	82%	81%	80%	80%	82%	83%	84%	86%	89%	91%	92%	92%	93%	93%	92%	92%	91%	90%	90%	89%	89%	88%	86%	84%	87%
Elig.Supplier_14	Working Days	84%	82%	81%	82%	85%	85%	88%	90%	94%	96%	96%	96%	96%	97%	96%	96%	95%	95%	94%	93%	92%	92%	89%	87%	91%
Elig.Supplier_16	All Days	65%	62%	61%	59%	58%	58%	62%	67%	70%	75%	78%	79%	80%	79%	78%	76%	74%	74%	75%	76%	77%	77%	73%	70%	71%
Elig.Supplier_16	Working Days	65%	63%	61%	60%	59%	60%	64%	71%	75%	80%	82%	83%	83%	83%	82%	80%	78%	78%	79%	79%	79%	75%	71%	74%	74%
Elig.Supplier_17	All Days	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Elig.Supplier_17	Working Days	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Elig.Trader_01	All Days	77%	77%	77%	77%	77%	77%	77%	80%	80%	82%	82%	82%	82%	82%	82%	82%	82%	82%	82%	82%	82%	82%	77%	77%	80%
Elig.Trader_01	Working Days	74%	79%	79%	79%	79%	79%	79%	84%	84%	86%	86%	86%	86%	86%	86%	86%	86%	86%	86%	86%	86%	79%	79%	79%	83%
Elig.Trader_02	All Days	0%	3%	6%	6%	6%	6%	3%	6%	61%	77%	84%	84%	84%	81%	81%	81%	81%	81%	81%	81%	87%	87%	87%	74%	55%
Elig.Trader_02	Working Days	0%	5%	10%	10%	10%	10%	5%	10%	86%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	81%	68%

### Load Declaration Analysis in DAS Supplementary Clearing

Figure.19 illustrates the Percentage of Load Declarations in DAS which cleared with the Weighted Average Price of Usage Declarations (UD\_wAvgP) compared to the equivalent percentage cleared with the SMP, during DAS Supplementary Clearing for the Delivery Months: December 2016 – October 2017 (for all Eligible Suppliers/ Traders). Table.14 presents the results for each Eligible Supplier/ Trader and Delivery Month.

**Figure.19 Percentage of Load Declarations cleared with SMP and Weighted Average Price of Usage declarations in DAS Supplementary Clearing (all Holders)**





**Table.14 Percentage of Load Declarations cleared with SMP and Weighted Average Price of Usage Declarations in DAS Supplementary Clearing (per Holder and Delivery Month)**

Participant	201612		First Quarter 2017		Second Quarter 2017		Third Quarter 2017		201710		201612 – 201710	
	% MWh (UD_wAvgP)	% MWh (SMP)	% MWh (UD_wAvgP)	% MWh (SMP)	% MWh (UD_wAvgP)	% MWh (SMP)	% MWh (UD_wAvgP)	% MWh (SMP)	% MWh (UD_wAvgP)	% MWh (SMP)	% MWh (UD_wAvgP)	% MWh (SMP)
Elig.Supplier_01	63.99%	36.01%	95.04%	4.96%	78.50%	21.50%	77.15%	22.85%	84.69%	15.31%	75.08%	24.92%
Elig.Supplier_02		39.50%	49.96%				74.76%	25.24%	88.01%	11.99%	73.84%	26.16%
Elig.Supplier_03	61.87%	38.13%					73.28%	26.72%	80.53%	19.47%	70.26%	29.74%
Elig.Supplier_04		20.26%	67.46%				92.58%	7.42%	92.38%	7.62%	87.64%	12.36%
Elig.Supplier_05	81.89%	18.11%	60.97%	39.03%	92.33%	7.67%	88.49%	11.51%	97.58%	2.42%	89.79%	10.21%
Elig.Supplier_06	59.57%	40.43%	78.56%	21.44%			64.49%	35.51%	87.48%	12.52%	65.74%	34.26%
Elig.Supplier_07	34.58%	65.42%					59.15%	40.85%	78.54%	21.46%	58.84%	41.16%
Elig.Supplier_08			59.45%	40.55%	75.64%	24.36%	11.79%	88.21%	12.34%	87.66%	10.27%	89.73%
Elig.Supplier_09			67.86%	32.14%	72.67%	27.33%	62.98%	37.02%	72.04%	27.96%	67.97%	32.03%
Elig.Supplier_10	95.18%	4.82%	87.20%	12.80%	81.02%	18.98%	83.24%	16.76%	78.01%	21.99%	83.76%	16.24%
Elig.Supplier_11	76.88%	23.12%	100.00%	0.00%	98.84%	1.16%	99.73%	0.27%	100.00%	0.00%	97.02%	2.98%
Elig.Supplier_12	62.48%		11.34%	88.66%	6.75%	93.25%	91.18%	8.82%	92.81%	7.19%	92.19%	7.81%
Elig.Supplier_13	60.06%	39.94%	88.80%	11.20%	38.32%	61.68%	43.38%	56.62%	39.62%	60.38%	45.19%	54.81%
Elig.Supplier_14							84.06%	15.94%	89.06%	10.94%	79.60%	20.40%
Elig.Supplier_15	79.74%	37.52%	100.00%	0.00%	70.69%	29.31%	73.40%	26.60%	90.16%	9.84%	65.52%	34.48%
Elig.Supplier_16					63.98%	36.02%	78.41%	21.59%	82.36%	17.64%	83.20%	16.80%
Elig.Supplier_17							41.55%	58.45%	34.06%	65.94%	37.37%	62.63%
Elig.Trader_01			51.98%	48.02%	62.04%	37.96%	98.97%	1.03%	48.59%	51.41%	86.81%	13.19%
Elig.Trader_02			98.60%	1.40%	64.81%	35.19%	3.15%	96.85%			3.15%	96.85%

## 8. Consumption Market Shares Evolution

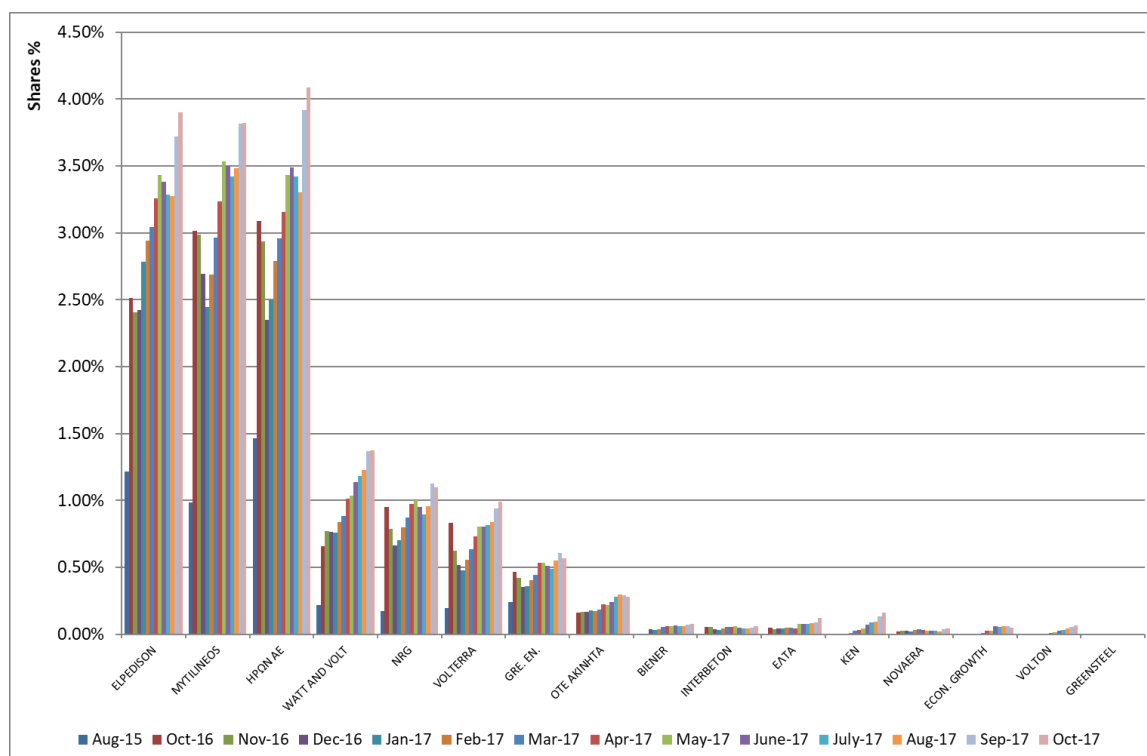
According to the provisions of Art. 7 and Art. 52 of the PECFEPAS, LAGIE is calculating the Consumption Market Shares of the Eligible Suppliers and reports the decrease of the PPC market share in the Wholesale and Retail Market. The DAS Consumption Market Shares reflects the volume of the Load Declarations of the Eligible Supplies and PPC submitted in the Day-Ahead Market (DAS) for domestic consumers for each Voltage Level.

Additional analysis regarding the penetration of the Eligible Suppliers in the retail market, including actual meter data and number of represented consumers per category of PECFEPAS Art. 7, will be provided at the time of this information being available by the System and Network Operators.

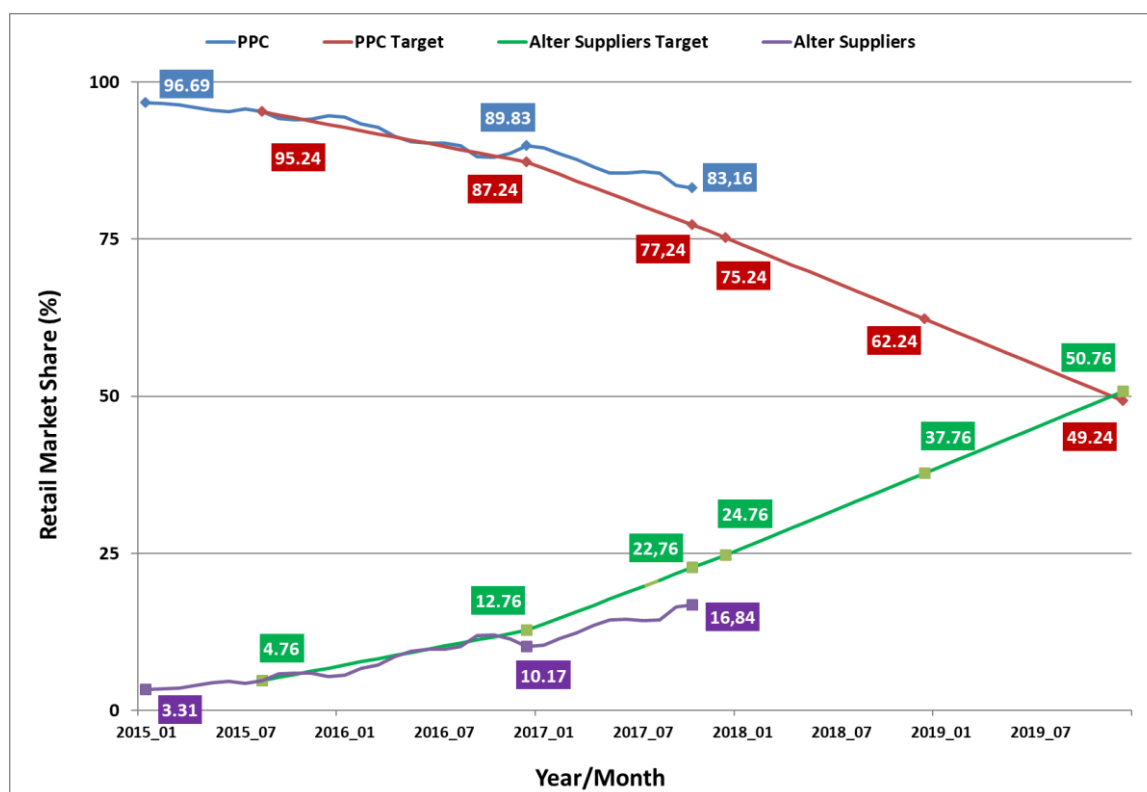
### Market Shares in Day-Ahead Scheduling (DAS)

The evolution of the DAS Consumption Market Shares for the Eligible Suppliers and PPC illustrated in the following figures and tables concerns the period October 2016 – October 2017 (i.e. starting at the first Auction Month and up to the month relevant to this report). The relevant market shares on the August 2015 are also included in the report. The evolution of the presented market shares reflects accordingly the seasonality of the represented consumers’ loads.

**Figure.20 Percentage (%) of the total DAS Consumption for each Eligible Supplier for the period October 2016 – October 2017 (including (%) for August 2015).**



**Figure.21 Percentage (%) of the total Consumption for PPC for the period October 2016 – October 2017 (including the reference (%) for August 2015 and projection according to targets).**



**Table.15a Suppliers Consumption Market Shares (%) in DAS for each Load Level (HV-MV-LV) for the Interconnected System and Network for August 2015**

Supplier	Year	Month	Monthly Quantities				Monthly Share			
			HV (MWh)	MV (MWh)	LV (MWh)	DAS-Consumption (MWh)	HV-Share (%)	MV-Share (%)	LV-Share (%)	DAS-Consumption (%)
ΔΕΗ	2015	8	496,011	941,990	2,987,473	4,425,474	99.65%	90.09%	96.26%	95.24%
ΔΕΗ ΠΚΥ	2015	8			11,596	11,596			0.37%	0.25%
ΗΡΩΝ	2015	8		36,176	31,544	67,720		3.46%	1.02%	1.46%
ELPEDISON	2015	8		23,775	32,096	55,870		2.27%	1.03%	1.20%
PROTERGIA	2015	8	106	28,809	16,838	45,753	0.02%	2.76%	0.54%	0.98%
GRE.EN	2015	8			11,261	11,261			0.36%	0.24%
WATT & VOLT	2015	8		1,217	8,933	10,150		0.12%	0.29%	0.22%
VOLTERRA	2015	8		9,003		9,003		0.86%		0.19%
NRG	2015	8		4,331	3,846	8,177		0.41%	0.12%	0.18%
ELPEDISON POWER	2015	8	782			782	0.16%			0.02%
HERON II VIOTIAS	2015	8	420			420	0.08%			0.01%
KORINTHOS POWER	2015	8	414			414	0.08%			0.01%
NOVAERA	2015	8		173		173		0.02%		0.00%
TITAN	2015	8		79		79		0.01%		0.00%
Totals :			497,733	1,045,552	3,103,586	4,646,871	100.00%	100.00%	100.00%	100.00%

**Table.15b Suppliers Consumption Market Shares (%) in DAS for each Load Level (HV-MV-LV) for the Interconnected System and Network for the period October 2016 – December 2016**

Supplier	Year	Month	Monthly Quantities				Monthly Share			
			HV (MWh)	MV (MWh)	LV (MWh)	DAS-Consumption (MWh)	HV-Share (%)	MV-Share (%)	LV-Share (%)	DAS-Consumption (%)
ΔΕΗ	2016	10	550,091	661,860	2,099,059	3,311,010	99.84%	68.91%	93.23%	<b>87.99%</b>
ΔΕΗ ΠΚΥ	2016	10			6,990	6,990			0.31%	<b>0.19%</b>
ΗΡΩΝ	2016	10		86,260	29,810	116,069		8.98%	1.32%	<b>3.08%</b>
PROTERGIA	2016	10	15	84,418	29,061	113,494	0.00%	8.79%	1.29%	<b>3.02%</b>
ELPEDISON	2016	10	700	53,613	40,258	94,571	0.13%	5.58%	1.79%	<b>2.51%</b>
NRG	2016	10		27,269	8,605	35,874		2.84%	0.38%	<b>0.95%</b>
VOLTERRA	2016	10		31,252		31,252		3.25%		<b>0.83%</b>
WATT & VOLT	2016	10		3,323	21,544	24,868		0.35%	0.96%	<b>0.66%</b>
GRE.EN	2016	10		8,602	9,034	17,636		0.90%	0.40%	<b>0.47%</b>
OTE AKINHΤΑ	2016	10			6,080	6,080			0.27%	<b>0.16%</b>
INTERBETON	2016	10		2,127	0	2,128		0.22%	0.00%	<b>0.06%</b>
ΕΛΤΑ	2016	10		829	1,050	1,879		0.09%	0.05%	<b>0.05%</b>
NOVAERA	2016	10		851		851		0.09%		<b>0.02%</b>
KORINTHOS POWER	2016	10	89			89	0.02%			<b>0.00%</b>
HERON II VIOTIAS	2016	10	52			52	0.01%			<b>0.00%</b>
<b>Totals :</b>			<b>550,947</b>	<b>960,404</b>	<b>2,251,492</b>	<b>3,762,843</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>
ΔΕΗ	2016	11	529,694	718,072	2,277,282	3,525,048	99.83%	71.84%	93.10%	<b>88.65%</b>
ΔΕΗ ΠΚΥ	2016	11			4,824	4,824			0.20%	<b>0.12%</b>
PROTERGIA	2016	11	243	80,651	37,921	118,815	0.05%	8.07%	1.55%	<b>2.99%</b>
ΗΡΩΝ	2016	11		86,170	30,446	116,616		8.62%	1.24%	<b>2.93%</b>
ELPEDISON	2016	11	425	50,217	44,965	95,606	0.08%	5.02%	1.84%	<b>2.40%</b>
NRG	2016	11		22,508	8,835	31,343		2.25%	0.36%	<b>0.79%</b>
WATT & VOLT	2016	11		5,392	25,366	30,758		0.54%	1.04%	<b>0.77%</b>
VOLTERRA	2016	11		24,742		24,742		2.48%		<b>0.62%</b>
GRE.EN	2016	11		8,007	8,762	16,769		0.80%	0.36%	<b>0.42%</b>
OTE AKINHΤΑ	2016	11			6,725	6,725			0.27%	<b>0.17%</b>
INTERBETON	2016	11		2,100	22	2,122		0.21%	0.00%	<b>0.05%</b>
ΕΛΤΑ	2016	11		686	932	1,617		0.07%	0.04%	<b>0.04%</b>
NOVAERA	2016	11		952		952		0.10%		<b>0.02%</b>
HERON II VIOTIAS	2016	11	171			171	0.03%			<b>0.00%</b>
KORINTHOS POWER	2016	11	78			78	0.01%			<b>0.00%</b>
<b>Totals :</b>			<b>530,611</b>	<b>999,495</b>	<b>2,446,080</b>	<b>3,976,186</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>
ΔΕΗ	2016	12	543,917	905,552	2,871,855	4,321,324	98.60%	77.11%	93.10%	<b>89.83%</b>
ΔΕΗ ΠΚΥ	2016	12			4,592	4,592			0.15%	<b>0.10%</b>
PROTERGIA	2016	12		76,066	53,491	129,558		6.48%	1.73%	<b>2.69%</b>
ELPEDISON	2016	12	7,642	51,734	57,242	116,619	1.39%	4.41%	1.86%	<b>2.42%</b>
ΗΡΩΝ	2016	12		77,368	35,584	112,952		6.59%	1.15%	<b>2.35%</b>
WATT & VOLT	2016	12		5,676	31,131	36,806		0.48%	1.01%	<b>0.77%</b>
NRG	2016	12		20,792	11,074	31,867		1.77%	0.36%	<b>0.66%</b>
VOLTERRA	2016	12		24,978		24,978		2.13%		<b>0.52%</b>
GRE.EN	2016	12		6,531	10,402	16,933		0.56%	0.34%	<b>0.35%</b>
OTE AKINHΤΑ	2016	12			8,164	8,164			0.26%	<b>0.17%</b>
ΕΛΤΑ	2016	12		826	1,166	1,991		0.07%	0.04%	<b>0.04%</b>
INTERBETON	2016	12		1,916	29	1,945		0.16%	0.00%	<b>0.04%</b>
VIENER	2016	12		1,724		1,724		0.15%		<b>0.04%</b>
NOVAERA	2016	12		1,191		1,191		0.10%		<b>0.02%</b>
KORINTHOS POWER	2016	12	90			90	0.02%			<b>0.00%</b>
<b>Totals :</b>			<b>551,649</b>	<b>1,174,355</b>	<b>3,084,730</b>	<b>4,810,734</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

**Table.15c Suppliers Market Shares (%) per voltage level (HV-MV-LV) in the Interconnected System based on their Load Declaration in DAS for the period January 2017 – March 2017**

Supplier	Year	Month	Monthly Quantities				Monthly Share			
			HV (MWh)	MV (MWh)	LV (MWh)	DAS-Consumption (MWh)	HV-Share (%)	MV-Share (%)	LV-Share (%)	DAS-Consumption (%)
ΔΕΗ	2017	1	502.991	953.348	3.082.453	4.538.792	98,50%	78,56%	92,20%	89,57%
ΔΕΗ ΠΚΥ	2017	1			4.380	4.380			0,13%	0,09%
ELPEDISON	2017	1	7.665	54.549	78.968	141.182	1,50%	4,49%	2,36%	2,79%
ΗΡΩΝ	2017	1		76.151	50.235	126.386		6,27%	1,50%	2,49%
PROTERGIA	2017	1		68.168	55.897	124.065		5,62%	1,67%	2,45%
WATT & VOLT	2017	1		3.934	34.604	38.538		0,32%	1,04%	0,76%
NRG	2017	1		21.583	14.083	35.666		1,78%	0,42%	0,70%
VOLTERRA	2017	1		24.303		24.303		2,00%		0,48%
GRE.EN	2017	1		6.133	12.024	18.157		0,51%	0,36%	0,36%
ΟΤΕ ΑΚΙΝΗΤΑ	2017	1			9.105	9.105			0,27%	0,18%
ΕΛΤΑ	2017	1		902	1.305	2.207		0,07%	0,04%	0,04%
INTERBETON	2017	1		1.727	23	1.751		0,14%	0,00%	0,03%
VIENER	2017	1		1.574		1.574		0,13%		0,03%
NOVAERA	2017	1		1.197		1.197		0,10%		0,02%
<b>Totals :</b>			<b>510.656</b>	<b>1.213.570</b>	<b>3.343.076</b>	<b>5.067.302</b>	<b>100,00%</b>	<b>100,00%</b>	<b>100,00%</b>	<b>100,00%</b>
ΔΕΗ	2017	2	488.343	753.137	2.435.077	3.676.557	98,58%	74,29%	92,13%	88,55%
ΔΕΗ ΠΚΥ	2017	2			3.806	3.806			0,14%	0,09%
ELPEDISON	2017	2	7.009	56.513	58.613	122.135	1,42%	5,57%	2,22%	2,94%
ΗΡΩΝ	2017	2		75.120	40.757	115.877		7,41%	1,54%	2,79%
PROTERGIA	2017	2	4	66.249	45.261	111.514	0,00%	6,54%	1,71%	2,69%
WATT & VOLT	2017	2		6.253	28.533	34.785		0,62%	1,08%	0,84%
NRG	2017	2		21.263	11.806	33.069		2,10%	0,45%	0,80%
VOLTERRA	2017	2		23.157		23.157		2,28%		0,56%
GRE.EN	2017	2		5.911	10.842	16.753		0,58%	0,41%	0,40%
ΟΤΕ ΑΚΙΝΗΤΑ	2017	2			7.153	7.153			0,27%	0,17%
ΕΛΤΑ	2017	2		799	1.210	2.009		0,08%	0,05%	0,05%
INTERBETON	2017	2		1.805	21	1.826		0,18%	0,00%	0,04%
VIENER	2017	2		1.485		1.485		0,15%		0,04%
NOVAERA	2017	2		1.369		1.369		0,14%		0,03%
KEN	2017	2		477	0	477		0,05%	0,00%	0,01%
ECON.GROWTH	2017	2		178	7	185		0,02%	0,00%	0,00%
VOLTON	2017	2			7	7			0,00%	0,00%
<b>Totals :</b>			<b>495.356</b>	<b>1.013.717</b>	<b>2.643.092</b>	<b>4.152.165</b>	<b>100,00%</b>	<b>100,00%</b>	<b>100,00%</b>	<b>100,00%</b>
ΔΕΗ	2017	3	553.655	724.337	2.341.932	3.619.924	98,56%	70,61%	92,12%	87,65%
ΔΕΗ ΠΚΥ	2017	3			5.150	5.150			0,20%	0,12%
ELPEDISON	2017	3	7.865	66.260	51.451	125.576	1,40%	6,46%	2,02%	3,04%
PROTERGIA	2017	3	107	76.411	45.808	122.325	0,02%	7,45%	1,80%	2,96%
ΗΡΩΝ	2017	3		85.901	36.305	122.206		8,37%	1,43%	2,96%
WATT & VOLT	2017	3		7.289	29.113	36.403		0,71%	1,15%	0,88%
NRG	2017	3		24.200	11.895	36.095		2,36%	0,47%	0,87%
VOLTERRA	2017	3		26.237		26.237		2,56%		0,64%
GRE.EN	2017	3		6.806	11.526	18.332		0,66%	0,45%	0,44%
ΟΤΕ ΑΚΙΝΗΤΑ	2017	3			7.606	7.606			0,30%	0,18%
INTERBETON	2017	3		2.248	23	2.272		0,22%	0,00%	0,06%
VIENER	2017	3		2.226		2.226		0,22%		0,05%
ΕΛΤΑ	2017	3		834	1.245	2.078		0,08%	0,05%	0,05%
NOVAERA	2017	3		1.523		1.523		0,15%		0,04%
KEN	2017	3		1.010	87	1.097		0,10%	0,00%	0,03%
ECON.GROWTH	2017	3		449	11	460		0,04%	0,00%	0,01%
VOLTON	2017	3		115	42	157		0,01%	0,00%	0,00%
KORINTHOS POWER	2017	3	110			110	0,02%			0,00%
<b>Totals :</b>			<b>561.737</b>	<b>1.025.847</b>	<b>2.542.196</b>	<b>4.129.779</b>	<b>100,00%</b>	<b>100,00%</b>	<b>100,00%</b>	<b>100,00%</b>

**Table.15d Suppliers Market Shares (%) per voltage level (HV-MV-LV) in the Interconnected System based on their Load Declaration in DAS for the period April 2017 – June 2017**

Supplier	Year	Month	Monthly Quantities				Monthly Share			
			HV (MWh)	MV (MWh)	LV (MWh)	DAS-Consumption (MWh)	HV-Share (%)	MV-Share (%)	LV-Share (%)	DAS-Consumption (%)
ΔΕΗ	2017	4	442,092	533,766	1,725,809	2,701,667	98.46%	69.24%	90.59%	86.45%
ΔΕΗ ΠΚΥ	2017	4			5,290	5,290			0.28%	0.17%
ELPEDISON	2017	4	6,796	50,575	44,428	101,799	1.51%	6.56%	2.33%	3.26%
MYTILINEOS	2017	4	15	61,938	39,176	101,129	0.00%	8.03%	2.06%	3.24%
ΗΡΩΝ	2017	4		65,652	32,992	98,644		8.52%	1.73%	3.16%
WATT & VOLT	2017	4		4,972	26,737	31,709		0.64%	1.40%	1.01%
NRG	2017	4		19,587	10,777	30,364		2.54%	0.57%	0.97%
VOLTERRA	2017	4		22,883		22,883		2.97%		0.73%
GRE.EN	2017	4		5,008	11,595	16,604		0.65%	0.61%	0.53%
ΟΤΕ ΑΚΙΝΗΤΑ	2017	4			6,988	6,988			0.37%	0.22%
VIENER	2017	4		1,819		1,819		0.24%		0.06%
INTERBETON	2017	4		1,666	20	1,686		0.22%	0.00%	0.05%
ΕΛΤΑ	2017	4		559	798	1,357		0.07%	0.04%	0.04%
KEN	2017	4		778	183	961		0.10%	0.01%	0.03%
NOVAERA	2017	4		946		946		0.12%		0.03%
ECON.GROWTH	2017	4		657	108	765		0.09%	0.01%	0.02%
VOLTON	2017	4		88	165	253		0.01%	0.01%	0.01%
KORINTHOS POWER	2017	4	84			84	0.02%			0.00%
Totals :			448,987	770,895	1,905,066	3,124,948	100.00%	100.00%	100.00%	100.00%
ΔΕΗ	2017	5	552,541	644,076	2,082,420	3,279,036	98.57%	65.94%	90.67%	85.52%
ΔΕΗ ΠΚΥ	2017	5			6,608	6,608			0.29%	0.17%
MYTILINEOS	2017	5	103	87,258	48,138	135,499	0.02%	8.93%	2.10%	3.53%
ΗΡΩΝ	2017	5		93,250	38,451	131,701		9.55%	1.67%	3.44%
ELPEDISON	2017	5	7,924	72,129	51,532	131,584	1.41%	7.38%	2.24%	3.43%
WATT & VOLT	2017	5		7,476	32,216	39,692		0.77%	1.40%	1.04%
NRG	2017	5		25,957	12,483	38,440		2.66%	0.54%	1.00%
VOLTERRA	2017	5		30,833		30,833		3.16%		0.80%
GRE.EN	2017	5		6,520	13,938	20,458		0.67%	0.61%	0.53%
ΟΤΕ ΑΚΙΝΗΤΑ	2017	5			8,354	8,354			0.36%	0.22%
ΕΛΤΑ	2017	5		1,524	1,433	2,957		0.16%	0.06%	0.08%
INTERBETON	2017	5		2,271	38	2,309		0.23%	0.00%	0.06%
VIENER	2017	5		2,270		2,270		0.23%		0.06%
KEN	2017	5		1,152	444	1,596		0.12%	0.02%	0.04%
NOVAERA	2017	5		1,128		1,128		0.12%		0.03%
ECON.GROWTH	2017	5		874	188	1,061		0.09%	0.01%	0.03%
VOLTON	2017	5		101	392	493		0.01%	0.02%	0.01%
KORINTHOS POWER	2017	5	10			10	0.00%			0.00%
Totals :			560,578	976,818	2,296,635	3,834,031	100.00%	100.00%	100.00%	100.00%
ΔΕΗ	2017	6	550,994	719,276	2,325,535	3,595,805	98.58%	66.55%	90.62%	85.49%
ΔΕΗ ΠΚΥ	2017	6			5,098	5,098			0.20%	0.12%
MYTILINEOS	2017	6	175	92,778	54,163	147,116	0.03%	8.58%	2.11%	3.50%
ΗΡΩΝ	2017	6		101,626	45,022	146,648		9.40%	1.75%	3.49%
ELPEDISON	2017	6	7,781	77,155	57,268	142,204	1.39%	7.14%	2.23%	3.38%
WATT & VOLT	2017	6		9,127	38,708	47,835		0.84%	1.51%	1.14%
NRG	2017	6		27,882	12,196	40,079		2.58%	0.48%	0.95%
VOLTERRA	2017	6		33,737		33,737		3.12%		0.80%
GRE.EN	2017	6		6,842	14,776	21,617		0.63%	0.58%	0.51%
ΟΤΕ ΑΚΙΝΗΤΑ	2017	6			10,112	10,112			0.39%	0.24%
ΕΛΤΑ	2017	6		1,720	1,549	3,269		0.16%	0.06%	0.08%
KEN	2017	6		2,292	764	3,057		0.21%	0.03%	0.07%
VIENER	2017	6		2,718		2,718		0.25%		0.06%
ECON.GROWTH	2017	6		2,170	285	2,454		0.20%	0.01%	0.06%
INTERBETON	2017	6		1,997	74	2,071		0.18%	0.00%	0.05%
NOVAERA	2017	6		1,205		1,205		0.11%		0.03%
VOLTON	2017	6		355	670	1,024		0.03%	0.03%	0.02%
GREENSTEEL	2017	6		2	0	2		0.00%	0.00%	0.00%
Totals :			558,950	1,080,883	2,566,219	4,206,052	100.00%	100.00%	100.00%	100.00%

**Table.15e Suppliers Market Shares (%) per voltage level (HV-MV-LV) in the Interconnected System based on their Load Declaration in DAS for the period July - October 2017**

			Monthly Quantities					Monthly Share			
Supplier	Year	Month	HV (MWh)	MV (MWh)	LV (MWh)	DAS-Consumption (MWh)	HV-Share (%)	MV-Share (%)	LV-Share (%)	DAS-Consumption (%)	
Totals :			558,950	1,080,883	2,566,219	4,206,052	100.00%	100.00%	100.00%	100.00%	
ΔΕΗ	2017	7	489,502	916,467	2,963,075	4,369,044	98.38%	69.17%	90.50%	85.72%	
ΔΕΗ ΠΚΥ	2017	7			5,136	5,136			0.16%	0.10%	
ΗΡΘΝ	2017	7		114,587	59,677	174,265		8.65%	1.82%	3.42%	
ELPEDISON	2017	7	7,969	85,705	73,900	167,574	1.60%	6.47%	2.26%	3.29%	
MYTILINEOS	2017	7	67	103,129	71,143	174,339	0.01%	7.78%	2.17%	3.42%	
WATT & VOLT	2017	7		10,641	49,714	60,356		0.80%	1.52%	1.18%	
NRG	2017	7		30,313	15,432	45,745		2.29%	0.47%	0.90%	
VOLTERRA	2017	7		41,722		41,722		3.15%		0.82%	
GRE.EN	2017	7		8,200	16,794	24,994		0.62%	0.51%	0.49%	
OTE AKINHΤΑ	2017	7			14,177	14,177			0.43%	0.28%	
KEN	2017	7		2,861	1,541	4,402		0.22%	0.05%	0.09%	
ΕΛΤΑ	2017	7		1,910	1,911	3,821		0.14%	0.06%	0.07%	
VIENER	2017	7		2,964		2,964		0.22%		0.06%	
ECON.GROWTH	2017	7		2,476	385	2,861		0.19%	0.01%	0.06%	
INTERBETON	2017	7		2,182	78	2,260		0.16%	0.00%	0.04%	
VOLTON	2017	7		450	1,229	1,679		0.03%	0.04%	0.03%	
NOVAERA	2017	7		1,354		1,354		0.10%		0.03%	
GREENSTEEL	2017	7		5	1	6		0.00%	0.00%	0.00%	
Totals :			497,538	1,324,968	3,274,193	5,096,699	100.00%	100.00%	100.00%	100.00%	
ΔΕΗ	2017	8	438,607	875,508	2,830,659	4,144,774	98.34%	69.93%	89.95%	85.55%	
ΔΕΗ ΠΚΥ	2017	8			5,218	5,218			0.17%	0.11%	
MYTILINEOS	2017	8	4	99,050	69,828	168,883	0.00%	7.91%	2.22%	3.49%	
ΗΡΘΝ	2017	8		99,123	60,982	160,104		7.92%	1.94%	3.30%	
ELPEDISON	2017	8	7,390	76,881	74,416	158,687	1.66%	6.14%	2.36%	3.28%	
WATT & VOLT	2017	8		8,135	51,246	59,381		0.65%	1.63%	1.23%	
NRG	2017	8		29,568	16,839	46,407		2.36%	0.54%	0.96%	
VOLTERRA	2017	8		40,744		40,744		3.25%		0.84%	
GRE.EN	2017	8		9,907	16,848	26,755		0.79%	0.54%	0.55%	
OTE AKINHΤΑ	2017	8			14,351	14,351			0.46%	0.30%	
KEN	2017	8		2,453	2,206	4,659		0.20%	0.07%	0.10%	
ΕΛΤΑ	2017	8		1,866	2,092	3,958		0.15%	0.07%	0.08%	
ECON.GROWTH	2017	8		2,613	408	3,021		0.21%	0.01%	0.06%	
VIENER	2017	8		2,897		2,897		0.23%		0.06%	
VOLTON	2017	8		289	1,815	2,104		0.02%	0.06%	0.04%	
INTERBETON	2017	8		1,927	79	2,006		0.15%	0.00%	0.04%	
NOVAERA	2017	8		1,034		1,034		0.08%		0.02%	
GREENSTEEL	2017	8		7	2	9		0.00%	0.00%	0.00%	
Totals :			446,001	1,252,003	3,146,988	4,844,991	100.00%	100.00%	100.00%	100.00%	
ΔΕΗ	2017	9	467,213	692,058	2,237,593	3,396,864	98.26%	64.38%	88.97%	83.56%	
ΔΕΗ ΠΚΥ	2017	9			5,754	5,754			0.23%	0.14%	
ΗΡΘΝ	2017	9		104,675	54,516	159,191		9.74%	2.17%	3.92%	
MYTILINEOS	2017	9		94,115	61,087	155,201		8.76%	2.43%	3.82%	
ELPEDISON	2017	9	8,261	80,434	62,625	151,319	1.74%	7.48%	2.49%	3.72%	
WATT & VOLT	2017	9		11,725	43,986	55,711		1.09%	1.75%	1.37%	
NRG	2017	9		30,991	14,890	45,881		2.88%	0.59%	1.13%	
VOLTERRA	2017	9		38,225		38,225		3.56%		0.94%	
GRE.EN	2017	9		8,866	15,783	24,649		0.82%	0.63%	0.61%	
OTE AKINHΤΑ	2017	9			11,922	11,922			0.47%	0.29%	
KEN	2017	9		3,221	2,318	5,539		0.30%	0.09%	0.14%	
ΕΛΤΑ	2017	9		1,530	2,141	3,671		0.14%	0.09%	0.09%	
VIENER	2017	9		2,888		2,888		0.27%		0.07%	
ECON.GROWTH	2017	9		2,116	440	2,556		0.20%	0.02%	0.06%	
VOLTON	2017	9		423	1,807	2,230		0.04%	0.07%	0.05%	
INTERBETON	2017	9		2,034	76	2,110		0.19%	0.00%	0.05%	
NOVAERA	2017	9		1,601		1,601		0.15%		0.04%	
GREENSTEEL	2017	9		11	2	13		0.00%	0.00%	0.00%	
Totals :			475,474	1,074,912	2,514,940	4,065,325	100.00%	100.00%	100.00%	100.00%	
ΔΕΗ	2017	10	509,503	631,061	2,040,378	3,180,942	96.86%	63.00%	88.81%	83.16%	
ΔΕΗ ΠΚΥ	2017	10			5,997	5,997			0.26%	0.16%	
ΗΡΘΝ	2017	10		106,074	50,146	156,220		10.59%	2.18%	4.08%	
ELPEDISON	2017	10	15,974	77,135	56,081	149,189	3.04%	7.70%	2.44%	3.90%	
MYTILINEOS	2017	10	523	88,949	56,791	146,263	0.10%	8.88%	2.47%	3.82%	
WATT & VOLT	2017	10		10,979	41,558	52,537		1.10%	1.81%	1.37%	
NRG	2017	10		28,140	13,777	41,916		2.81%	0.60%	1.10%	
VOLTERRA	2017	10		37,843		37,843		3.78%		0.99%	
GRE.EN	2017	10		7,512	14,146	21,658		0.75%	0.62%	0.57%	
OTE AKINHΤΑ	2017	10			10,639	10,639			0.46%	0.28%	
KEN	2017	10		3,071	3,032	6,102		0.31%	0.13%	0.16%	
ΕΛΤΑ	2017	10		2,225	2,456	4,681		0.22%	0.11%	0.12%	
VIENER	2017	10		2,910		2,910		0.29%		0.08%	
VOLTON	2017	10		367	2,120	2,487		0.04%	0.09%	0.07%	
INTERBETON	2017	10		2,161	79	2,240		0.22%	0.00%	0.06%	
ECON.GROWTH	2017	10		1,637	320	1,957		0.16%	0.01%	0.05%	
NOVAERA	2017	10		1,653		1,653		0.16%		0.04%	
GREENSTEEL	2017	10		6	1	7		0.00%	0.00%	0.00%	
Totals :			526,000	1,001,721	2,297,520	3,825,241	100.00%	100.00%	100.00%	100.00%	