

# FORWARD ELECTRICITY PRODUCTS AUCTIONS SYSTEM



## MONTHLY WHOLESALE AND RETAIL PENETRATION AND MARKET SHARE REPORT

*December  
2018*



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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 Hellenic Energy Exchange S.A. (HEnEx S.A) 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 HEnEx S.A. 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.

HEnEx S.A. 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 HEnEx S.A. to any party. HEnEx S.A. 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. LAGIE S.A. was appointed as the Operator of FEPAS having under their 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. Since 18<sup>th</sup> June 2018, HEnEx S.A. has taken over the operation of the Forward Electricity Products Auctions System according to art. 96 of Law 4512/2018.

The Power Exchange Code for Forward Electricity Products Auctions System (PECFEPAS) was approved by the Regulatory Authority of Greece (RAE Decision 510/2018). The first Auction for a Forward Electricity Product was conducted by LAGIE S.A at 25/10/2016.

**Detailed data of FEPAS for the years 2016 and 2017 presented in the Monthly Reports of December 2016 and 2017 respectively.**

## 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 thirty-three (35) Participants, i.e.: 26 Eligible Suppliers, 9 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	ENEL GREEN POWER HELLAS ΠΡΟΜΗΘΕΙΑ Α.Ε.	22.12.2017
4	ELPEDISON ΠΑΡΑΓΩΓΗ ΗΛΕΚΤΡΙΚΗΣ ΕΝΕΡΓΕΙΑΣ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	18.10.2016
5	EUNICE TRADING Α.Ε.	14.07.2017
6	GEN-I ATHENS Μ.Ε.Π.Ε.	03.07.2017
7	GREEK ENVIRONMENTAL & ENERGY NETWORK ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	12.10.2016
8	GREENSTEEL-CEDALION COMMODITIES Α.Ε.	16.11.2016
9	INTERBETON CONSTRUCTION MATERIALS S.A.	19.10.2016
10	ΚΕΝ ΠΑΡΑΓΩΓΗ ΚΑΙ ΕΜΠΟΡΙΑ ΕΝΕΡΓΕΙΑΚΩΝ ΠΡΟΪΟΝΤΩΝ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	05.01.2017
11	NATURAL GAS - HELLENIC ENERGY COMPANY	06.10.2017
12	NECO Α.Ε.	20.10.2017

A/A	PARTICIPANT	REGISTERED
13	NOVAERA ENERGY A.E.	18.10.2016
14	NRG TRADING HOUSE S.A.	18.10.2016
15	PROTERGIA ΘΕΡΜΟΗΛΕΚΤΡΙΚΗ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	03.07.2017
16	VOLTERRA A.E.	19.10.2016
17	VOLTON ΕΛΛΗΝΙΚΗ ΕΝΕΡΓΕΙΑΚΗ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	05.01.2017
18	WATT AND VOLT A.E.	19.10.2016
19	BIENER A.E. ΕΝΕΡΓΕΙΑΚΕΣ ΕΠΙΧΕΙΡΗΣΕΙΣ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	18.10.2016
20	ΒΙΟΛΑΡ Α.Ε. ΒΙΟΜΗΧΑΝΙΑ ΒΑΜΒΑΚΟΣ ΚΑΙ ΔΗΜΗΤΡΙΑΚΩΝ ΚΑΡΠΩΝ	12.10.2018
21	ΕΛΛΗΝΙΚΑ ΤΑΧΥΔΡΟΜΕΙΑ ΑΕ	19.10.2016
22	ZENIO GAS & LIGHT	20.09.2017
23	ΗΡΩΝ ΘΕΡΜΟΗΛΕΚΤΡΙΚΗ Α.Ε.	18.10.2016
24	ΚΩΝΣΤΑΝΤΙΝΟΣ Β. ΜΑΡΚΟΥ Α.Β.Ε.Ε.	12.10.2018
25	ΜΥΤΙΛΗΝΑΙΟΣ ΑΝΩΝΥΜΟΣ ΕΤΑΙΡΕΙΑ - ΟΜΙΛΟΣ ΕΠΙΧΕΙΡΗΣΕΩΝ	07.07.2017
26	ΟΤΕ ΑΚΙΝΗΤΑ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	16.11.2016

## 2.2 Eligible Traders

A/A	PARTICIPANT	REGISTERED
1	DANSKE COMMODITIES A/S	26.09.2017
2	ELEKTRICNI FINANCNI TIM d.o.o.	14.11.2017
3	ENSCO S.A.	15.02.2017
4	EZPADA S.R.O.	28.03.2017
5	INTERENERGO energetski inzeniring d.o.o.	12.10.2018
6	LE TRADING A.S.	28.09.2017
7	SENTRADE A.E.	25.10.2016
8	ΙΩΑΝΝΗΣ ΠΑΝΑΓΙΩΤΟΠΟΥΛΟΣ ΣΟΛΑΡΙΣ ΕΝΕΡΓΕΙΑΚΗ ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ	28.11.2017
9	ΤΕΡΝΑ ΕΝΕΡΓΕΙΑΚΗ ΑΒΕΤΕ	14.11.2017

## 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 FEPAC 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), (Article 138, Law 4389/2016).

**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%	

According to RAE Decisions 353/2016, 619/2016, and 1091/2017, following a Public Consultation on LAGIE’s proposals, the yearly quantities for 2016, 2017 and 2018 were set to 460 MWh/h, 681 MWh/h and 1.126 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 138 of Law 4389/2016 as amended and is in force by article 401 of Law 4512/2018, 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 in the next two auctions following RAE's decision.

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.

The Auction Schedule for the year 2018 has been modified by RAE decision **82/2018**, following the relative LAGIE proposal, taking into account the Yearly Quantities increment as a result of the deviation of 10.1% target of PPC'S shares concerning the second Semester of 2017 which has confirmed in January 2018 by the Market Operator in accordance with the provisions of article 135 of Law 4389/2016.

According to Article 42 of Law 4549/2018, provisions have been introduced regarding the effect of PPC's lignite power generation and transmission of electricity in the auctioning mechanism of forward electricity products. With the publication of the tender notice of paragraph 2 of Article 3 of Law 4533/2018 on 31<sup>st</sup> May 2018, the provisions of paragraph 1 of article 42 of Law 4549/2018 were activated, according to which: "By approving the terms of the spin-off and the segregation statements by the PPC's Board of Directors and the publication of these acts in accordance with paragraph 1 of Article 2 of Law 4533/2018 (A'75), as well as with the publication of the notice of the competition of paragraph 2 of Article 3 of Law 4533/2018, the quantities that may be auctioned pursuant to the first sentence of paragraph 4 of Article 135 of Law No 4389/2016 (A'94), by RAE's decision, shall be reduced by fifty percentage points (50%) ". In addition, paragraph 3 of Article 42 of Law 4549/2018 provides that: "By signing the relevant share purchase agreements of paragraph 2 of Article 3 of Law 4533/2018, the mechanism for adjusting the auctioning of quantities of paragraphs 3 and 4 of Article 135 of Law 4389/2016 is abolished ".

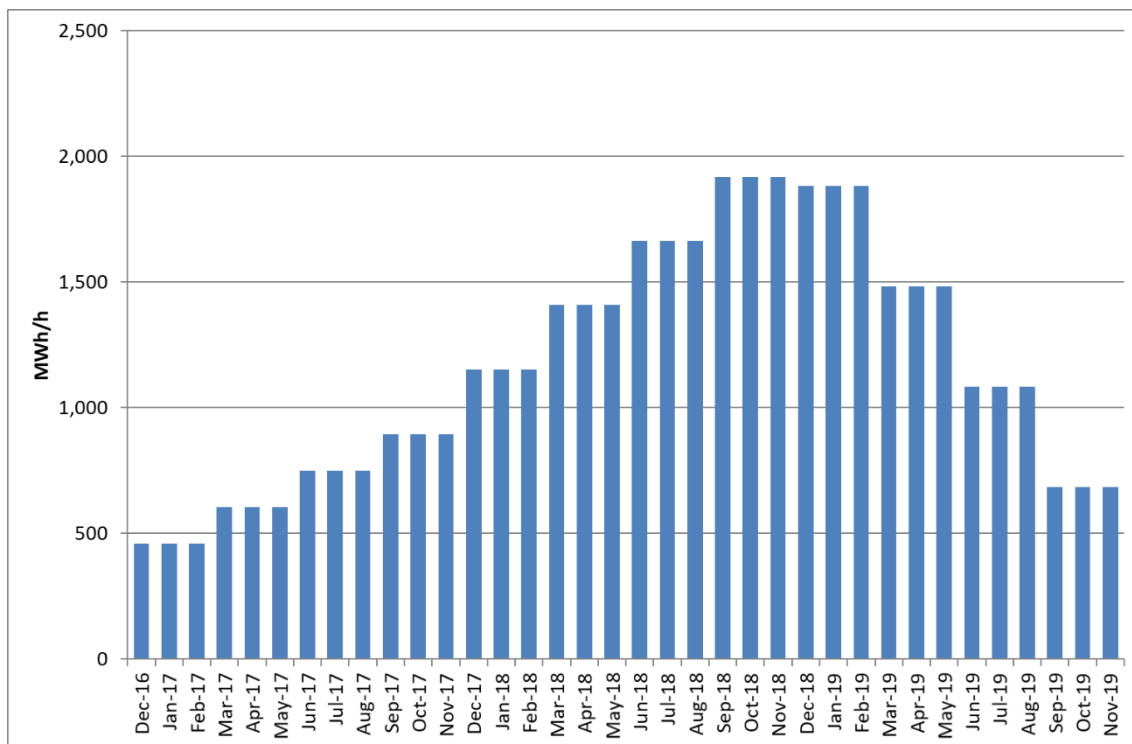
Considering the above, the Auction Schedule for the year 2018 has been modified by RAE decision **748/2018**, following the relative HEnEx S.A. proposal, taking into account the Yearly Quantities increment as a result of the deviation of 11.68% target of PPC'S shares concerning the first Semester of 2018 which has confirmed in July 2018 by HEnEx S.A. in accordance with the provisions of article 135 of Law 4389/2016. Table 3 depicts the updated 2018 Auctions' Schedule.

**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	817/2017
2018A01P01*	3.504.000	400	20180301-20190228	07/02/2018	82/2018
2018A02P02*	3.504.000	400	20180601-20190531	18/04/2018	82/2018
2018A03P03*	3.504.000	400	20180901-20190831	18/07/2018	82/2018
2018A04P04*	4.476.360	511	20181201-20191130	17/10/2018	82/2018

(\*) Forward Products already auctioned by end of December 2018.

Figure.1 depicts the segmentation of the Yearly Quantities into Forward Electricity Products for the period December 2016 to November 2019.

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


## 4. Auctions

According to the relative RAE decisions 353/216, 619/2016, 817/2017, 82/2018 and 748/2018 (summarized in Table.3) during the twenty six (26) months it has been conducted nine (9) Auctions for nine (9) distinct Forward Products.

### 4.1 Auction «2018A01»

The Auction «2018A01» was conducted at February 7<sup>th</sup> 2018. The product «2018A01P01» was auctioned according to the approved Technical Specifications (RAE Decision 83/2018). The Technical Details of the Auction Specifications, the Auctions Procedure and Results are summarized as follows.

#### Technical Specifications and procedure for the Auction «2018A01»

Auction	Required Participation Guarantees (€)	Auction Type	Gate Open	Gate Close	Gate Extensions /Duration
2018A01	336.910	American / Yankee Auction	07/02/2018 12:00	07/02/2018 12:30	Yes/ 3minutes

#### Bids Technical Specifications for the Auction «2018A01»

Auction	Minimum Allocation Quantity (MWh/h)	Minimum Bid Quantity (MWh/h)	Minimum Bid Price Tic (€/MWh)
2018A01	1	1	0,1

#### Specifications of Forward Product «2018A01P01»

Forward Product	Volume (MWh)	Quantity (MWh/h)	Physical Delivery Period	Reserve Price (€/MWh)
2018A01P01	3.504.000	400	01/03/2018 – 28/02/2019	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 «2018A01»

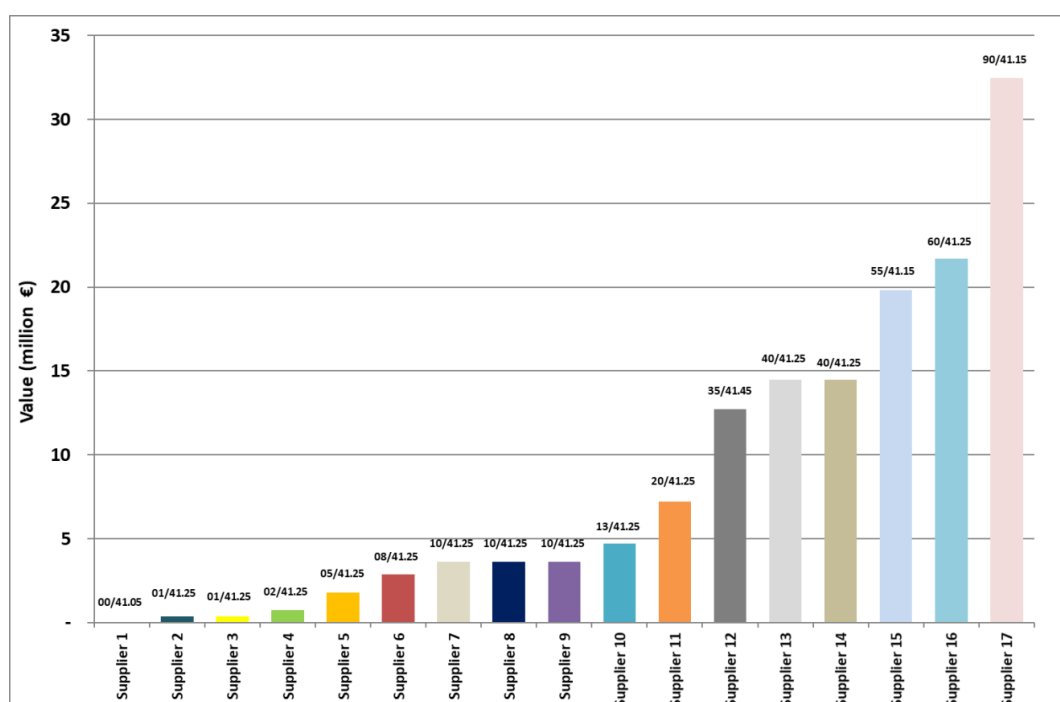
Auction	Participants	Valid Bids	Invalid Bids	Total Allocated Quantity
2018A01	17	1879	33	400 (100%)
	Best Bid Price	Max Allocated Quantity	Max Requested Quantity	Total Requested Quantity /Total Allocated Quantity
	41.45	131	200	412/400

**Summary of Auction Process for Auction «2018A01»**

Auction	Gate Open	Gate Close	Extensions	Objections
2018A01	07/02/2018 12:00	07/02/2018 14:27	39	0

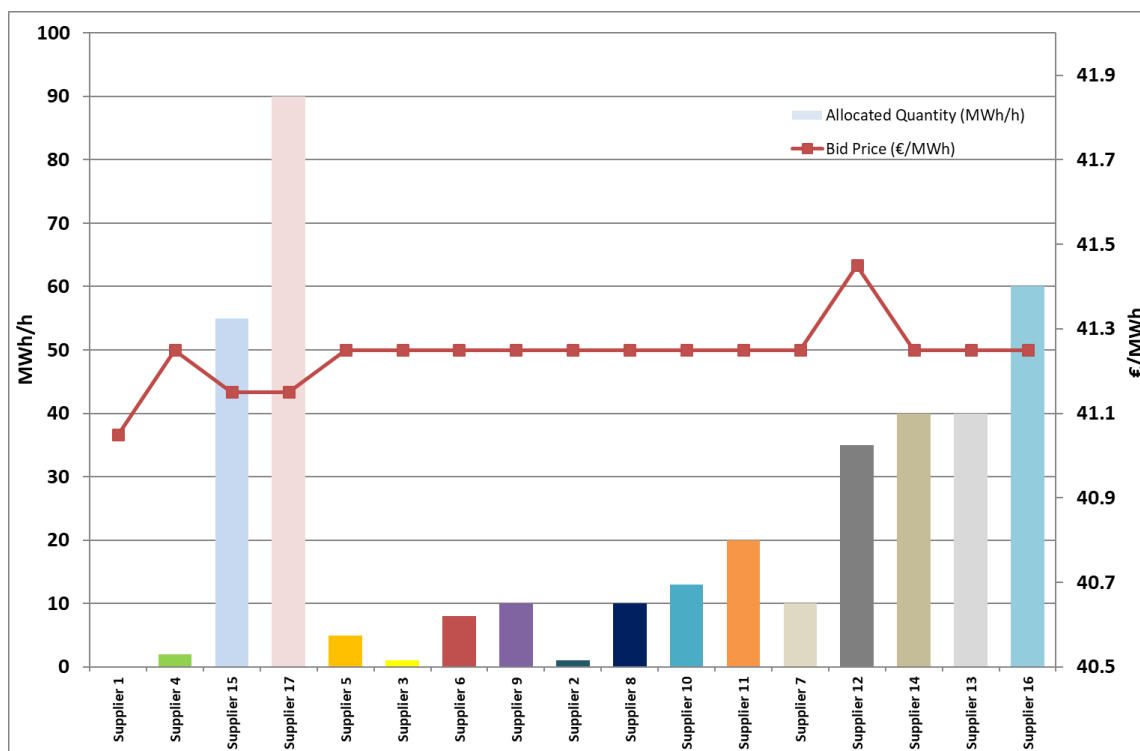
**Table.4 Bids Final Classification Table for Auction «2018A01»**

Bid ID	Requested Quantity	Allocated Quantity	Bid Price	Date	Time
297659	60	60	41,25	07/02/2018	14:22:18
297657	40	40	41,25	07/02/2018	14:21:17
297656	40	40	41,25	07/02/2018	14:20:55
297655	35	35	41,45	07/02/2018	14:20:23
297654	10	10	41,25	07/02/2018	14:20:13
297653	20	20	41,25	07/02/2018	14:19:47
297651	13	13	41,25	07/02/2018	14:19:39
297650	10	10	41,25	07/02/2018	14:18:58
297649	1	1	41,25	07/02/2018	14:18:04
297648	10	10	41,25	07/02/2018	14:17:47
297645	8	8	41,25	07/02/2018	14:15:26
297643	1	1	41,25	07/02/2018	14:15:04
297642	5	5	41,25	07/02/2018	14:15:02
297641	90	90	41,15	07/02/2018	14:14:53
297640	61	55	41,15	07/02/2018	14:14:27
297620	2	2	41,25	07/02/2018	14:01:10
297594	6	0	41,05	07/02/2018	13:46:52

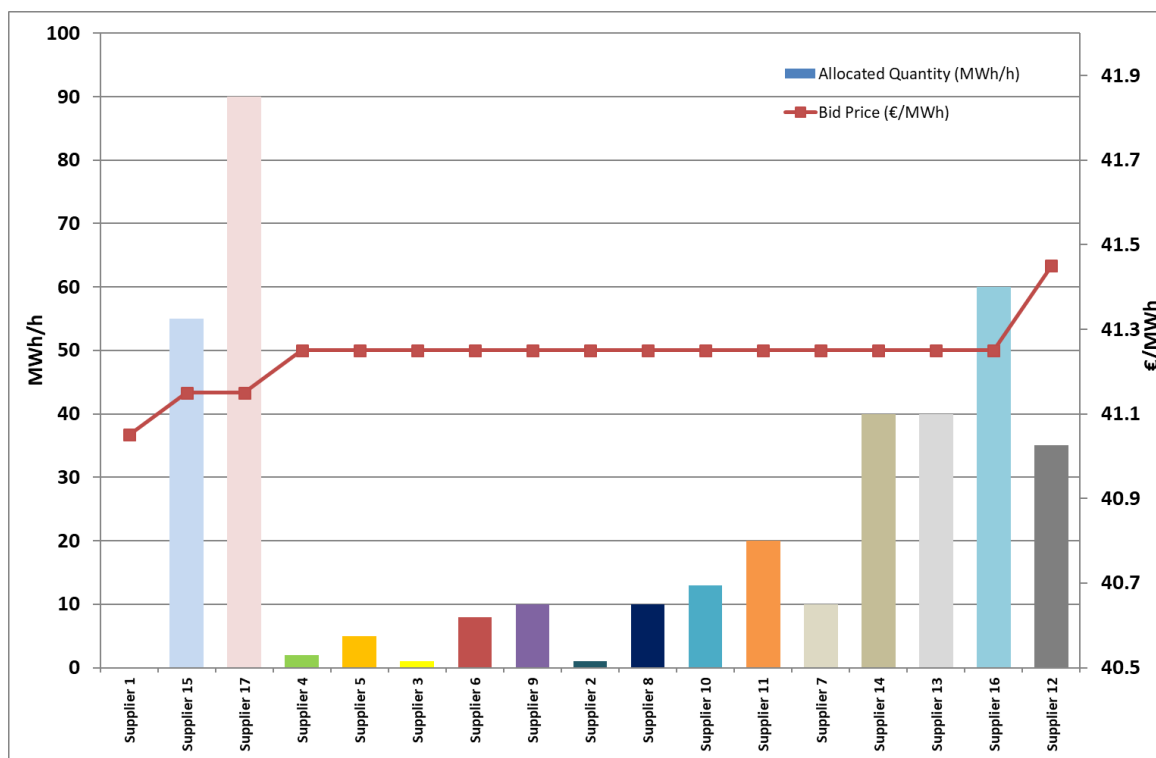
**Figure.2 Valuation of Bids Allocated for Auction «2018A01P01»**


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

**Figure.3 Final Classification of Bids for Auction «2018A01» (sorted to the submission time)**



**Figure.4 Final Classification of Bids for Auction «2018A01» (sorted to the Bid Price)**



## 4.2 Auction «2018A02»

The Auction «2018A02» was conducted at April 18<sup>th</sup> 2018. The product «2018A02P02» was auctioned according to the approved Technical Specifications (RAE Decision 273/2018). The Technical Details of the Auction Specifications, the Auctions Procedure and Results are summarized as follows.

### Technical Specifications and procedure for the Auction «2018A02»

Auction	Required Participation Guarantees (€)	Auction Type	Gate Open	Gate Close	Gate Extensions /Duration
2018A02	336.910	American / Yankee Auction	18/04/2018 12:00	18/04/2018 12:30	Yes/ 3minutes

### Bids Technical Specifications for the Auction «2018A02»

Auction	Minimum Allocation Quantity (MWh/h)	Minimum Bid Quantity (MWh/h)	Minimum Bid Price Tic (€/MWh)
2018A02	1	1	0,1

### Specifications of Forward Product «2018A02P02»

Forward Product	Volume (MWh)	Quantity (MWh/h)	Physical Delivery Period	Reserve Price (€/MWh)
2018A02P02	3.504.000	400	01/06/2018 – 31/05/2019	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 «2018A02»

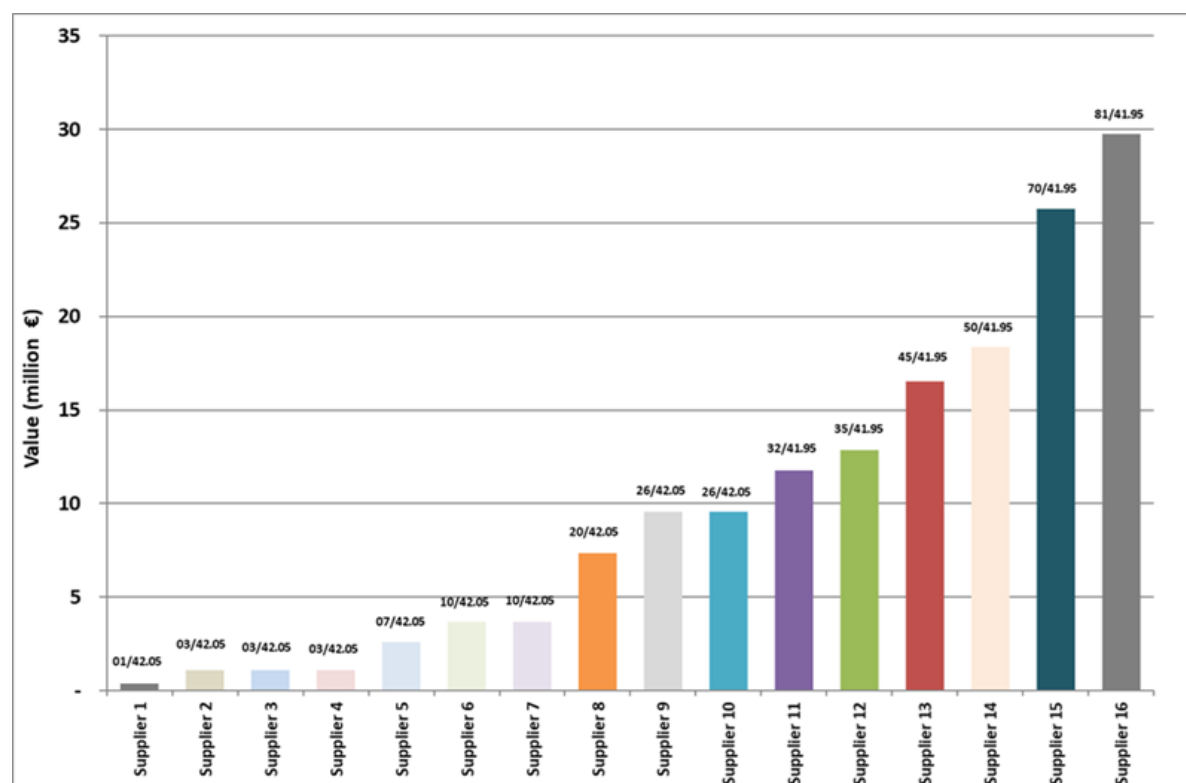
Auction	Participants	Valid Bids	Invalid Bids	Total Allocated Quantity
2018A02	16	1911	22	400 (100%)
	Best Bid Price	Max Allocated Quantity	Max Requested Quantity	Total Requested Quantity /Total Allocated Quantity
	42.05	81	422	422/400

### Summary of Auction Process for Auction «2018A02»

Auction	Gate Open	Gate Close	Extensions	Objections
2018A02	18/04/2018 12:00	18/04/2018 13:33	21	0

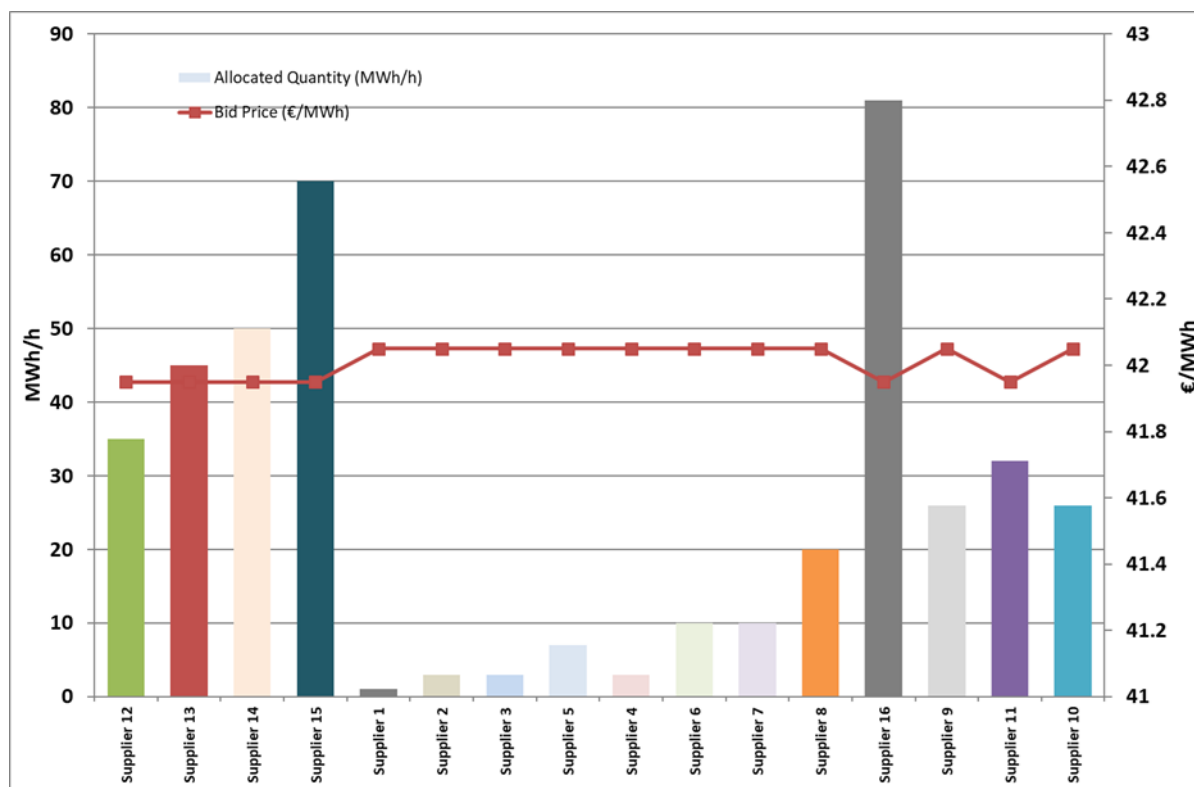
**Table.5 Bids Final Classification Table for Auction «2018A02»**

Bid ID	Requested Quantity	Allocated Quantity	Bid Price	Date	Time
304658	26	26	42.05	18/04/2018	13:29:30
304657	32	10	41.95	18/04/2018	13:29:16
304656	26	26	42.05	18/04/2018	13:29:07
304655	81	81	41.95	18/04/2018	13:29:05
304653	20	20	42.05	18/04/2018	13:28:50
304649	10	10	42.05	18/04/2018	13:28:31
304648	10	10	42.05	18/04/2018	13:28:22
304647	3	3	42.05	18/04/2018	13:27:58
304645	7	7	42.05	18/04/2018	13:27:36
304644	3	3	42.05	18/04/2018	13:27:30
304643	3	3	42.05	18/04/2018	13:27:22
304642	1	1	42.05	18/04/2018	13:27:14
304638	70	70	41.95	18/04/2018	13:26:20
304628	50	50	41.95	18/04/2018	13:23:32
304626	45	45	41.95	18/04/2018	13:23:21
304618	35	35	41.95	18/04/2018	13:22:52

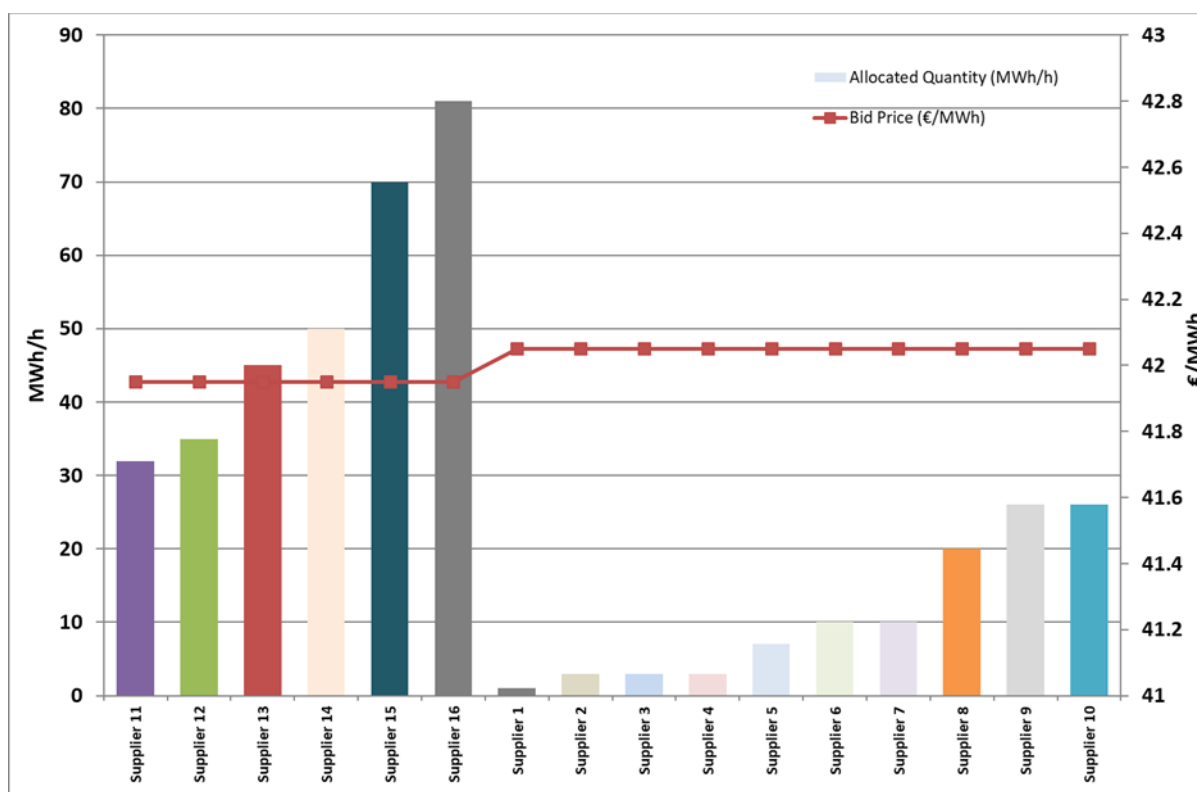
**Figure.5 Valuation of Bids Allocated for Auction «2018A02P02»**


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

**Figure.6 Final Classification of Bids for Auction «2018A02» (sorted to the submission time)**



**Figure.7 Final Classification of Bids for Auction «2018A02» (sorted to the Bid Price)**





### 4.3 Auction «2018A03»

The Auction «2018A03» was conducted at July 18<sup>th</sup> 2018. The product «2018A03P03» was auctioned according to the approved Technical Specifications (RAE Decision 652/2018). The Technical Details of the Auction Specifications, the Auctions Procedure and Results are summarized as follows.

#### Technical Specifications and procedure for the Auction “2018A03»

Auction	Required Participation Guarantees (€)	Auction Type	Gate Open	Gate Close	Gate Extensions /Duration
2018A03	382.006	American / Yankee Auction	18/07/2018 12:00	18/07/2018 12:30	Yes/ 3minutes

#### Bids Technical Specifications for the Auction “2018A03»

Auction	Minimum Allocation Quantity (MWh/h)	Minimum Bid Quantity (MWh/h)	Minimum Bid Price Tic (€/MWh)
2018A03	1	1	0,1

#### Specifications of Forward Product «2018A01P01»

Forward Product	Volume (MWh)	Quantity (MWh/h)	Physical Delivery Period	Reserve Price (€/MWh)
2018A03P03	3.504.000	400	01/09/2018 – 31/08/2019	36,34*

(\*) According to the Ministerial Decision, HA/A/Φ1/οικ.176185/15.06.2018 (Government Gazette B’ 2280/15.06.2018)

#### Summary of Auction Bids for Auction “2018A03»

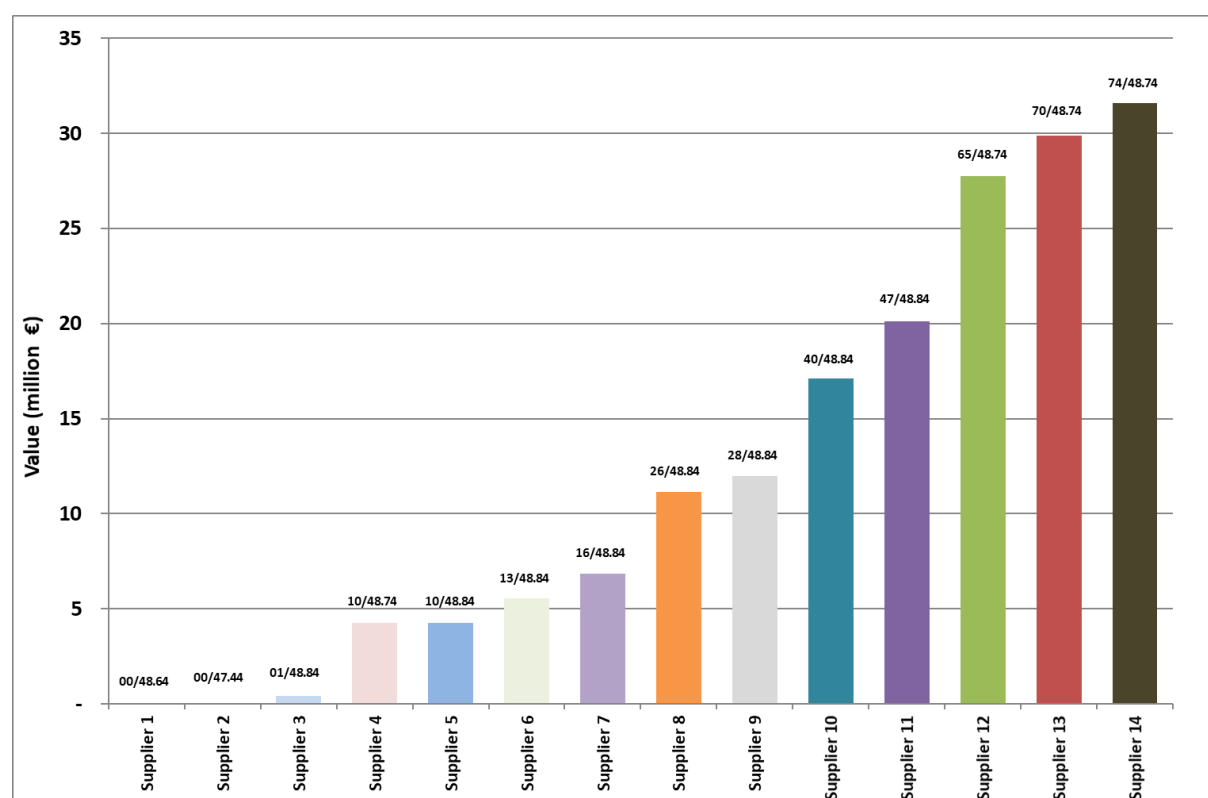
Auction	Participants	Valid Bids	Invalid Bids	Total Allocated Quantity
2018A03	14	2451	33	400 (100%)
	Best Bid Price	Max Allocated Quantity	Max Requested Quantity	Total Requested Quantity /Total Allocated Quantity
	48,84	74	170	441/400

#### Summary of Auction Process for Auction “2018A03»

Auction	Gate Open	Gate Close	Extensions	Objections
2018A03	18/07/2018 12:00	18/07/2018 13:48	26	0

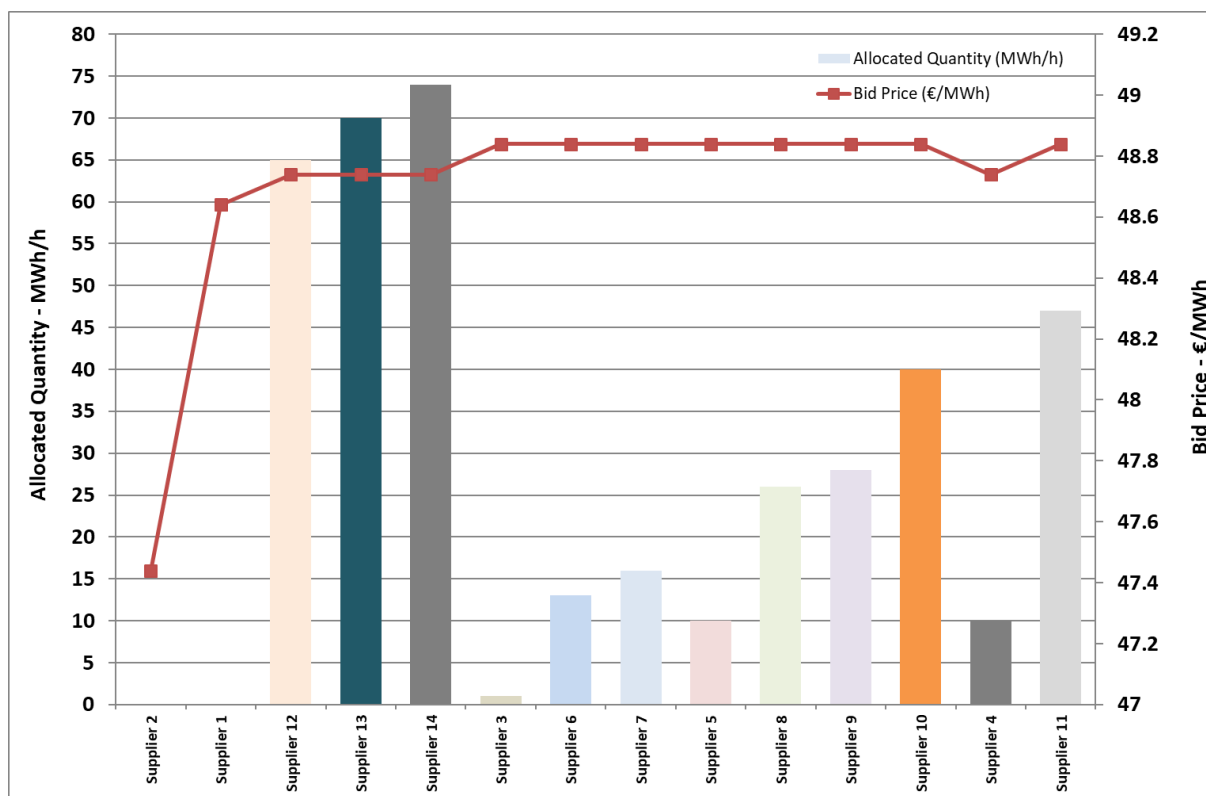
**Table.6 Bids Final Classification Table for Auction “2018A03»**

Bid ID	Requested Quantity	Allocated Quantity	Bid Price	Date	Time
348189	47	47	48,84	18-07-18	13:42:58
348188	49	10	48,74	18-07-18	13:42:03
348183	40	40	48,84	18-07-18	13:41:23
348171	28	28	48,84	18-07-18	13:40:10
348170	26	26	48,84	18-07-18	13:39:57
348166	10	10	48,84	18-07-18	13:38:45
348165	16	16	48,84	18-07-18	13:37:41
348164	13	13	48,84	18-07-18	13:37:33
348160	1	1	48,84	18-07-18	13:30:37
348159	74	74	48,74	18-07-18	13:30:14
348157	70	70	48,74	18-07-18	13:28:26
348156	65	65	48,74	18-07-18	13:28:05
348110	1	0	48,64	18-07-18	13:16:32
347849	1	0	47,44	18-07-18	12:54:01

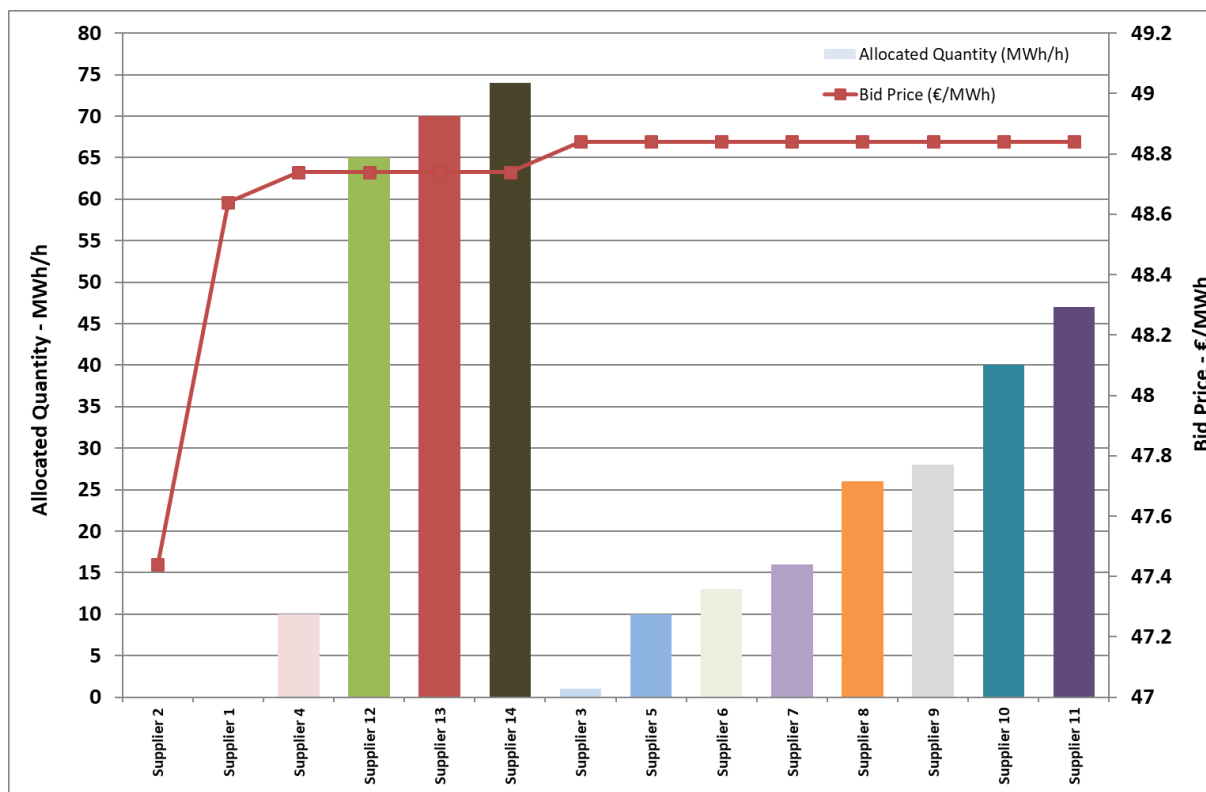
**Figure.8 Valuation of Bids Allocated for Auction «2018A03P03»**


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

**Figure.9 Final Classification of Bids for Auction "2018A03» (sorted to the submission time)**



**Figure.10 Final Classification of Bids for Auction "2018A03» (sorted to the Bid Price)**



## 4.4 Auction «2018A04»

The Auction «2018A04» was conducted at October 17<sup>th</sup> 2018. The product «2018A04P04» was auctioned according to the approved Technical Specifications (RAE Decision 652/2018). The Technical Details of the Auction Specifications, the Auctions Procedure and Results are summarized as follows.

### Technical Specifications and procedure for the Auction “2018A04»

Auction	Required Participation Guarantees (€)	Auction Type	Gate Open	Gate Close	Gate Extensions /Duration
2018A04	652.275	American / Yankee Auction	17/10/2018 12:00	17/10/2018 12:30	Yes/ 3minutes

### Bids Technical Specifications for the Auction “2018A04»

Auction	Minimum Allocation Quantity (MWh/h)	Minimum Bid Quantity (MWh/h)	Minimum Bid Price Tic (€/MWh)
2018A04	1	1	0,1

### Specifications of Forward Product «2018A04P04»

Forward Product	Volume (MWh)	Quantity (MWh/h)	Physical Delivery Period	Reserve Price (€/MWh)
2018A04P04	5.983.080	683	01/12/2018 – 30/11/2019	36,34*

(\*) According to the Ministerial Decision, HA/A/Φ1/ouk.176185/15.06.2018 (Government Gazette B’ 2280/15.06.2018)

### Summary of Auction Bids for Auction «2018A04»

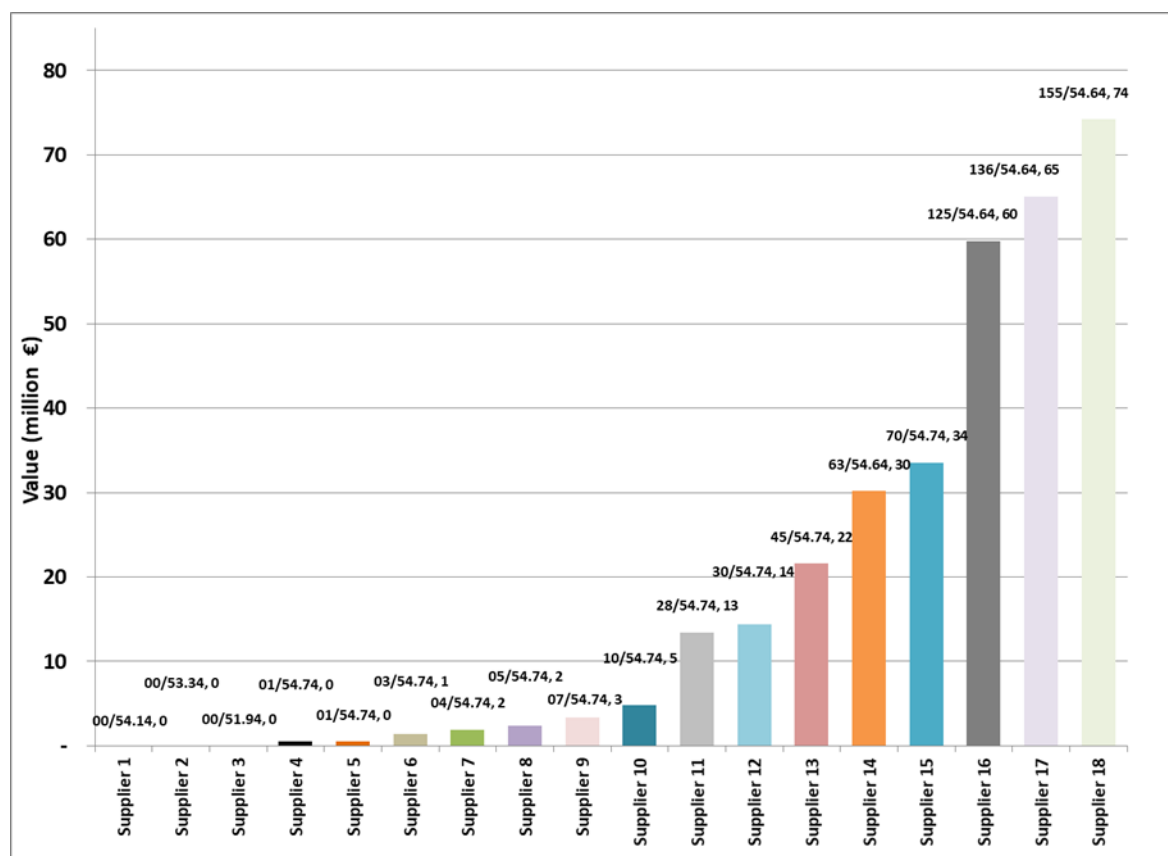
Auction	Participants	Valid Bids	Invalid Bids	Total Allocated Quantity
2018A04	18	3548	31	683 (100%)
	Best Bid Price	Max Allocated Quantity	Max Requested Quantity	Total Requested Quantity /Total Allocated Quantity
	54,74	155	320	711/683

### Summary of Auction Process for Auction «2018A04»

Auction	Gate Open	Gate Close	Extensions	Objections
2018A04	17/10/2018 12:00	17/10/2018 14:09	33	0

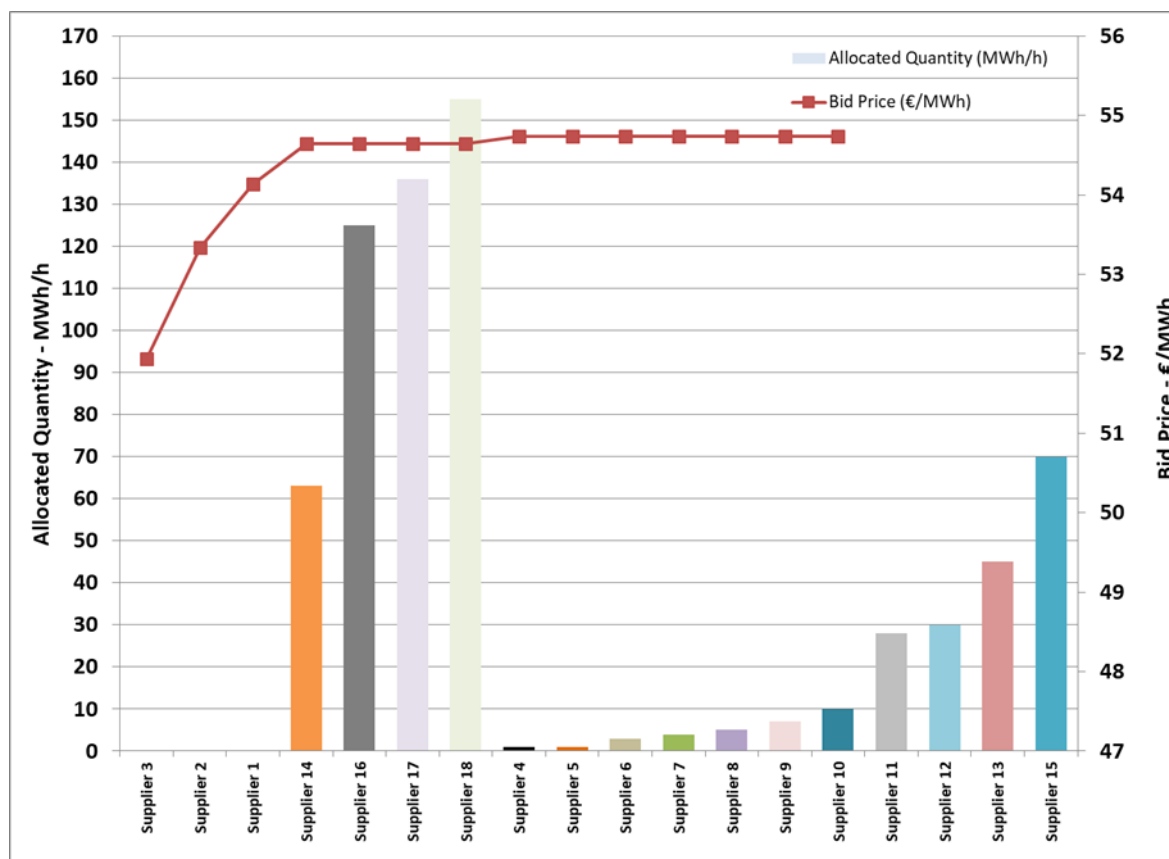
**Table.7 Bids Final Classification Table for Auction «2018A04»**

Bid ID	Requested Quantity	Allocated Quantity	Bid Price	Date	Time
359791	4	4	54,74	17-10-18	14:03:40
359790	1	0	51,94	17-10-18	14:02:43
359789	70	70	54,74	17-10-18	14:01:33
359788	77	63	54,64	17-10-18	14:00:41
359786	45	45	54,74	17-10-18	13:59:47
359785	30	30	54,74	17-10-18	13:59:36
359784	28	28	54,74	17-10-18	13:59:28
359782	10	10	54,74	17-10-18	13:59:11
359781	1	1	54,74	17-10-18	13:59:05
359780	7	7	54,74	17-10-18	13:58:49
359778	1	1	54,74	17-10-18	13:58:45
359779	3	3	54,74	17-10-18	13:58:45
359777	5	5	54,74	17-10-18	13:58:41
359776	155	155	54,64	17-10-18	13:58:36
359770	136	136	54,64	17-10-18	13:55:52
359755	125	125	54,64	17-10-18	13:54:59
359629	3	0	54,14	17-10-18	13:19:27
359438	10	0	53,34	17-10-18	13:10:17

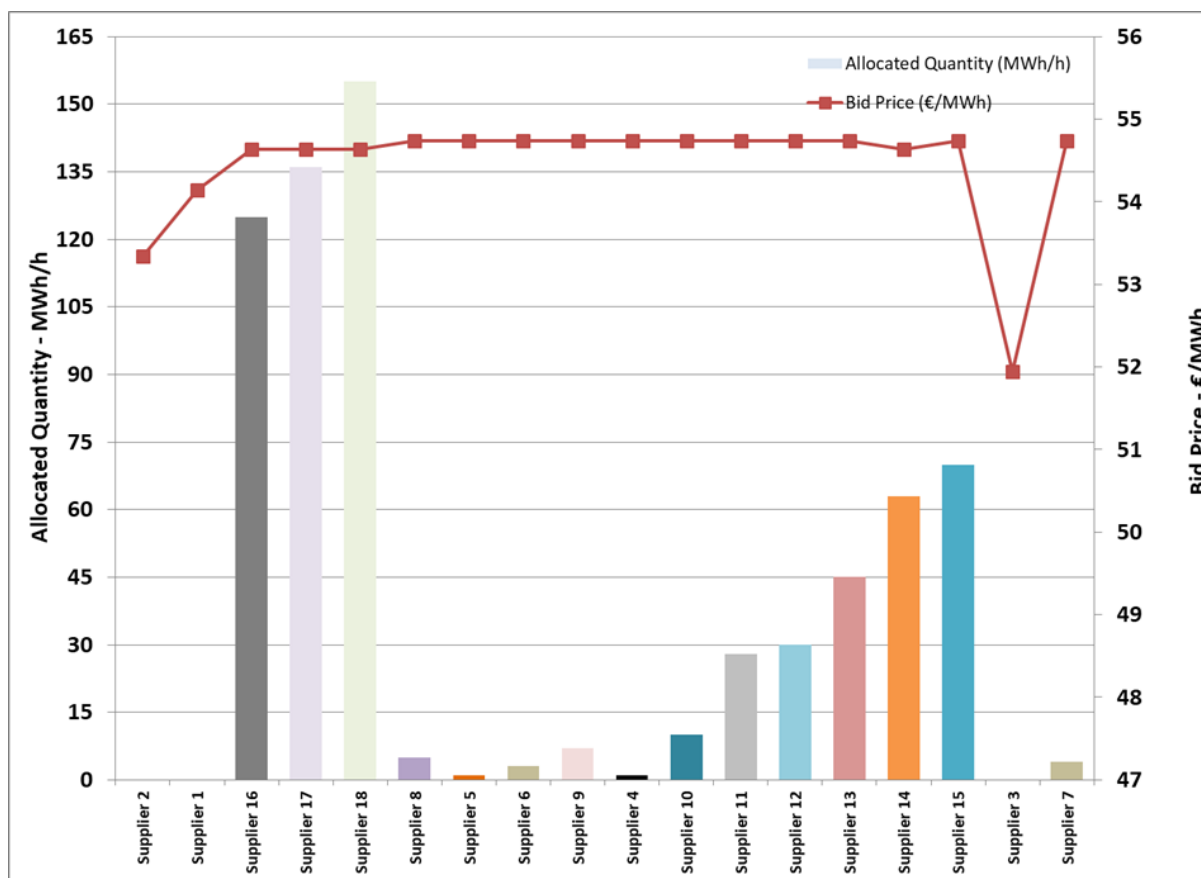
**Figure.11 Valuation of Bids Allocated for Auction «2018A04P04»**


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

**Figure.12 Final Classification of Bids for Auction "2018A04» (sorted to the submission time)**



**Figure.13 Final Classification of Bids for Auction "2018A04» (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 for the year 2018.

**Table.8 FEPAS Secondary Market Summary for Monthly Forward Sub-products up to 11/2018**

Delivery Month	Forward Product	No. of Transfers	Transferred Quantities (MWh/h)	Quantity (MWh/h)	WAvg Transfer Price (€/MWh)	Wavg Bid Price (€/MWh)
2018 01 Gate Closure: 15/12/17 15:00	2017A01P01	4	18	145	46.739	41.057
	2017A03P03	4	27	145	46.074	43.05
	2017A04P04	14	135	718	50.039	45.159
2018 02 Gate Closure: 17/01/18 15:00	2017A01P01	3	15	145	43.52	41.058
	2017A03P03	2	25	145	45.34	43.05
	2017A04P04	13	87	718	48.571	45.167
2018 03 Gate Closure: 15/02/18 15:00	2017A03P03	2	25	145	45.34	43.05
	2017A04P04	6	42	718	48.411	45.164
	2018A01P01	8	44	400	41.932	41.295
2018 04 Gate Closure: 15/03/18 15:00	2017A03P03	2	25	145	43.05	43.05
	2017A04P04	3	30	718	44.133	45.167
	2018A01P01	5	35	400	41.564	41.307
2018 05 Gate Closure: 17/04/18 15:00	2017A03P03	2	25	145	43.05	43.05
	2017A04P04	3	49	718	45.579	45.16
	2018A01P01	5	34	400	41.419	41.309
2018 06 Gate Closure: 16/05/18 15:00	2017A03P03	1	20	145	43.05	43.05
	2017A04P04	4	27	718	45.442	45.181
	2018A01P01	5	40	400	42.4	41.3
	2018A01P02	11	145	400	43.2	41.994
2018 07 Gate Closure: 15/06/18 15:00	2017A03P03	2	25	145	43.05	43.05
	2017A04P04	8	50	718	47.41	45.175
	2018A01P01	5	29	400	43.469	41.319
	2018A01P02	10	129	400	43.296	42
2018 08 Gate Closure: 15/07/2018	2017A03P03	2	25	145	43.05	43.05
	2017A04P04	7	51	718	47.08	45.18
	2018A01P01	4	27	400	42.689	41.324
	2018A02P02	8	121	400	43.286	41.996
2018 09 Gate Closure: 14/08/2018	2017A04P04	4	32	718	46.783	45.184
	2018A01P01	3	25	400	41.84	41.33
	2018A02P02	9	131	400	43.186	41.993
	2018A03P03	5	62	400	49.242	48.759
2018 10 Gate Closure: 17/09/2018	2017A04P04	4	32	718	46.533	45.184
	2018A01P01	5	33	400	44.379	41.311
	2018A02P02	9	131	400	43.186	41.993
	2018A03P03	7	70	400	50.938	48.776
2018 11 Gate Closure: 17/10/2018	2017A04P04	4	32	718	46.783	45.184
	2018A01P01	4	31	400	44.774	41.315
	2018A02P02	9	131	400	43.186	41.993
	2018A03P03	6	48	400	49.909	48.765
2018 12 Gate Closure: 15/11/2018	2018A01P01	5	34	400	43.568	41.309
	2018A02P02	8	130	400	43.185	41.992
	2018A03P03	3	26	400	50.773	48.782
	2018A04P04	6	47	683	55.902	54.697

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.9 summarizes the Usage Declarations provided by the Eligible Suppliers and Traders under the Nomination process for each Delivery Month and for each Forward Product. Eligible suppliers and traders ranking is updated every month according to Table 10. of this report.

**Table.9a FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 01/2018**

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2017A01P01	22	15.17%
Elig.Supplier_01	2017A02P02	30	20.69%
Elig.Supplier_01	2017A03P03	20	13.79%
Elig.Supplier_01	2017A04P04	154	21.45%
Elig.Supplier_02	2017A01P01	33	22.76%
Elig.Supplier_02	2017A02P02	30	20.69%
Elig.Supplier_02	2017A03P03	25	17.24%
Elig.Supplier_02	2017A04P04	115	16.02%
Elig.Supplier_03	2017A01P01	31	21.38%
Elig.Supplier_03	2017A02P02	30	20.69%
Elig.Supplier_03	2017A03P03	15	10.35%
Elig.Supplier_03	2017A04P04	146	20.33%
Elig.Supplier_04	2017A01P01	10	6.90%
Elig.Supplier_04	2017A02P02	20	13.79%
Elig.Supplier_04	2017A03P03	18	12.41%
Elig.Supplier_04	2017A04P04	70	9.75%
Elig.Supplier_05	2017A01P01	6	4.14%
Elig.Supplier_05	2017A02P02	14	9.66%
Elig.Supplier_05	2017A03P03	11	7.59%
Elig.Supplier_05	2017A04P04	56	7.80%
Elig.Supplier_06	2017A01P01	6	4.14%
Elig.Supplier_06	2017A02P02	6	4.14%
Elig.Supplier_06	2017A03P03	15	10.35%
Elig.Supplier_06	2017A04P04	24	3.34%
Elig.Supplier_07	2017A01P01	6	4.14%
Elig.Supplier_07	2017A02P02	5	3.45%
Elig.Supplier_07	2017A03P03	6	4.14%
Elig.Supplier_07	2017A04P04	28	3.90%
Elig.Supplier_08	2017A01P01	10	6.90%
Elig.Supplier_08	2017A03P03	10	6.90%
Elig.Supplier_08	2017A04P04	19	2.65%
Elig.Supplier_09	2017A01P01	6	4.14%
Elig.Supplier_09	2017A02P02	5	3.45%
Elig.Supplier_09	2017A03P03	10	6.90%
Elig.Supplier_09	2017A04P04	10	1.39%
Elig.Supplier_10	2017A01P01	9	6.21%
Elig.Supplier_10	2017A02P02	2	1.38%
Elig.Supplier_10	2017A03P03	3	2.07%
Elig.Supplier_11	2017A03P03	4	2.76%
Elig.Supplier_11	2017A04P04	21	2.93%
Elig.Supplier_12	2017A02P02	2	1.38%
Elig.Supplier_13	2017A04P04	10	1.39%

Elig.Supplier_14	2017A01P01	1	0.69%
Elig.Supplier_14	2017A03P03	1	0.69%
Elig.Supplier_14	2017A04P04	4	0.56%
Elig.Supplier_15	2017A03P03	1	0.69%
Elig.Supplier_15	2017A04P04	2	0.28%
Elig.Supplier_16	2017A01P01	1	0.69%
Elig.Supplier_16	2017A02P02	1	0.69%
Elig.Supplier_17	2017A01P01	1	0.69%
Elig.Supplier_17	2017A04P04	1	0.14%
Elig.Supplier_19	2017A04P04	2	0.28%
Elig.Supplier_20	2017A04P04	1	0.14%
Elig.Trader_01	2017A04P04	45	6.27%
Elig.Trader_02	2017A01P01	3	2.07%
Elig.Trader_02	2017A03P03	6	4.14%
Elig.Trader_02	2017A04P04	10	1.39%

**Table.9b FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 02/2018**

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2017A01P01	22	15.17%
Elig.Supplier_01	2017A02P02	30	20.69%
Elig.Supplier_01	2017A03P03	20	13.79%
Elig.Supplier_01	2017A04P04	157	21.87%
Elig.Supplier_02	2017A01P01	33	22.76%
Elig.Supplier_02	2017A02P02	30	20.69%
Elig.Supplier_02	2017A03P03	25	17.24%
Elig.Supplier_02	2017A04P04	150	20.89%
Elig.Supplier_03	2017A01P01	31	21.38%
Elig.Supplier_03	2017A02P02	30	20.69%
Elig.Supplier_03	2017A03P03	15	10.35%
Elig.Supplier_03	2017A04P04	141	19.64%
Elig.Supplier_04	2017A01P01	10	6.90%
Elig.Supplier_04	2017A02P02	20	13.79%
Elig.Supplier_04	2017A03P03	18	12.41%
Elig.Supplier_04	2017A04P04	70	9.75%
Elig.Supplier_05	2017A01P01	6	4.14%
Elig.Supplier_05	2017A02P02	14	9.66%
Elig.Supplier_05	2017A03P03	11	7.59%
Elig.Supplier_05	2017A04P04	56	7.80%
Elig.Supplier_06	2017A01P01	6	4.14%
Elig.Supplier_06	2017A02P02	6	4.14%
Elig.Supplier_06	2017A03P03	15	10.35%
Elig.Supplier_06	2017A04P04	29	4.04%
Elig.Supplier_07	2017A01P01	6	4.14%
Elig.Supplier_07	2017A02P02	5	3.45%
Elig.Supplier_07	2017A03P03	6	4.14%
Elig.Supplier_07	2017A04P04	28	3.90%
Elig.Supplier_08	2017A01P01	10	6.90%
Elig.Supplier_08	2017A03P03	10	6.90%
Elig.Supplier_08	2017A04P04	15	2.09%
Elig.Supplier_09	2017A01P01	6	4.14%
Elig.Supplier_09	2017A02P02	5	3.45%
Elig.Supplier_09	2017A03P03	10	6.90%
Elig.Supplier_09	2017A04P04	12	1.67%
Elig.Supplier_10	2017A01P01	9	6.21%
Elig.Supplier_10	2017A02P02	2	1.38%
Elig.Supplier_10	2017A03P03	3	2.07%
Elig.Supplier_11	2017A03P03	4	2.76%
Elig.Supplier_11	2017A04P04	29	4.04%

Elig.Supplier_12	2017A02P02	2	1.38%
Elig.Supplier_13	2017A04P04	10	1.39%
Elig.Supplier_14	2017A01P01	1	0.69%
Elig.Supplier_14	2017A03P03	2	1.38%
Elig.Supplier_14	2017A04P04	4	0.56%
Elig.Supplier_15	2017A03P03	1	0.69%
Elig.Supplier_15	2017A04P04	2	0.28%
Elig.Supplier_16	2017A01P01	1	0.69%
Elig.Supplier_16	2017A02P02	1	0.69%
Elig.Supplier_17	2017A01P01	1	0.69%
Elig.Supplier_17	2017A04P04	1	0.14%
Elig.Supplier_18	2017A04P04	2	0.28%
Elig.Supplier_20	2017A04P04	2	0.28%
Elig.Trader_01	2017A04P04	10	1.39%
Elig.Trader_02	2017A03P03	5	3.45%
Elig.Trader_03	2017A01P01	3	2.07%

**Table.9c FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 03/2018**

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2017A02P02	30	20.69%
Elig.Supplier_01	2017A03P03	20	13.79%
Elig.Supplier_01	2017A04P04	120	16.71%
Elig.Supplier_01	2018A01P01	90	22.50%
Elig.Supplier_02	2017A02P02	30	20.69%
Elig.Supplier_02	2017A03P03	25	17.24%
Elig.Supplier_02	2017A04P04	160	22.28%
Elig.Supplier_02	2018A01P01	60	15.00%
Elig.Supplier_03	2017A02P02	30	20.69%
Elig.Supplier_03	2017A03P03	15	10.35%
Elig.Supplier_03	2017A04P04	151	21.03%
Elig.Supplier_03	2018A01P01	40	10.00%
Elig.Supplier_04	2017A02P02	20	13.79%
Elig.Supplier_04	2017A03P03	18	12.41%
Elig.Supplier_04	2017A04P04	70	9.75%
Elig.Supplier_04	2018A01P01	25	6.25%
Elig.Supplier_05	2017A02P02	14	9.66%
Elig.Supplier_05	2017A03P03	11	7.59%
Elig.Supplier_05	2017A04P04	56	7.80%
Elig.Supplier_05	2018A01P01	55	13.75%
Elig.Supplier_06	2017A02P02	6	4.14%
Elig.Supplier_06	2017A03P03	15	10.35%
Elig.Supplier_06	2017A04P04	29	4.04%
Elig.Supplier_06	2018A01P01	13	3.25%
Elig.Supplier_07	2017A02P02	5	3.45%
Elig.Supplier_07	2017A03P03	6	4.14%
Elig.Supplier_07	2017A04P04	29	4.04%
Elig.Supplier_07	2018A01P01	15	3.75%
Elig.Supplier_08	2017A03P03	10	6.90%
Elig.Supplier_08	2017A04P04	15	2.09%
Elig.Supplier_08	2018A01P01	15	3.75%
Elig.Supplier_09	2017A02P02	5	3.45%
Elig.Supplier_09	2017A03P03	10	6.90%
Elig.Supplier_09	2017A04P04	30	4.18%
Elig.Supplier_09	2018A01P01	15	3.75%
Elig.Supplier_10	2017A02P02	2	1.38%
Elig.Supplier_10	2017A03P03	3	2.07%
Elig.Supplier_10	2017A04P04	4	0.56%
Elig.Supplier_10	2018A01P01	8	2.00%

Elig.Supplier_11	2017A03P03	4	2.76%
Elig.Supplier_11	2017A04P04	21	2.93%
Elig.Supplier_11	2018A01P01	40	10.00%
Elig.Supplier_12	2017A02P02	2	1.38%
Elig.Supplier_12	2018A01P01	1	0.25%
Elig.Supplier_13	2017A04P04	10	1.39%
Elig.Supplier_13	2018A01P01	10	2.50%
Elig.Supplier_14	2017A03P03	2	1.38%
Elig.Supplier_14	2017A04P04	4	0.56%
Elig.Supplier_14	2018A01P01	2	0.50%
Elig.Supplier_15	2017A03P03	1	0.69%
Elig.Supplier_15	2017A04P04	2	0.28%
Elig.Supplier_16	2017A02P02	1	0.69%
Elig.Supplier_16	2018A01P01	1	0.25%
Elig.Supplier_17	2017A04P04	1	0.14%
Elig.Supplier_17	2018A01P01	2	0.50%
Elig.Supplier_18	2018A01P01	4	1.00%
Elig.Supplier_19	2017A04P04	5	0.70%
Elig.Trader_01	2017A04P04	10	1.39%
Elig.Trader_02	2017A03P03	5	3.45%
Elig.Trader_03	2017A04P04	1	0.14%
Elig.Trader_03	2018A01P01	4	1.00%

**Table.9d FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 04/2018**

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2017A02P02	30	20.69%
Elig.Supplier_01	2017A03P03	20	13.79%
Elig.Supplier_01	2017A04P04	105	14.62%
Elig.Supplier_01	2018A01P01	90	22.50%
Elig.Supplier_02	2017A02P02	30	20.69%
Elig.Supplier_02	2017A03P03	25	17.24%
Elig.Supplier_02	2017A04P04	85	22.28%
Elig.Supplier_02	2018A01P01	65	16.25%
Elig.Supplier_03	2017A02P02	30	20.69%
Elig.Supplier_03	2017A03P03	15	10.35%
Elig.Supplier_03	2017A04P04	151	21.03%
Elig.Supplier_03	2018A01P01	40	10.00%
Elig.Supplier_04	2017A02P02	20	13.79%
Elig.Supplier_04	2017A03P03	18	12.41%
Elig.Supplier_04	2017A04P04	36	9.75%
Elig.Supplier_04	2018A01P01	25	6.25%
Elig.Supplier_05	2017A02P02	14	9.66%
Elig.Supplier_05	2017A03P03	11	7.59%
Elig.Supplier_05	2017A04P04	56	7.80%
Elig.Supplier_05	2018A01P01	55	13.75%
Elig.Supplier_06	2017A02P02	6	4.14%
Elig.Supplier_06	2017A03P03	15	10.35%
Elig.Supplier_06	2017A04P04	29	4.04%
Elig.Supplier_06	2018A01P01	13	3.25%
Elig.Supplier_07	2017A02P02	5	3.45%
Elig.Supplier_07	2017A03P03	6	4.14%
Elig.Supplier_07	2017A04P04	28	3.90%
Elig.Supplier_08	2017A03P03	10	6.90%
Elig.Supplier_08	2017A04P04	10	1.39%
Elig.Supplier_08	2018A01P01	15	3.75%
Elig.Supplier_09	2017A02P02	5	3.45%
Elig.Supplier_09	2017A03P03	5	6.90%
Elig.Supplier_09	2018A01P01	15	3.75%

Elig.Supplier_10	2017A03P03	4	2.76%
Elig.Supplier_10	2017A04P04	21	2.93%
Elig.Supplier_10	2018A01P01	40	10.00%
Elig.Supplier_11	2017A02P02	2	1.38%
Elig.Supplier_11	2017A03P03	3	2.07%
Elig.Supplier_11	2017A04P04	4	0.56%
Elig.Supplier_11	2018A01P01	8	2.00%
Elig.Trader_01	2017A04P04	10	1.39%
Elig.Trader_01	2018A01P01	10	2.50%
Elig.Supplier_13	2017A02P02	2	1.38%
Elig.Supplier_13	2018A01P01	1	0.25%
Elig.Supplier_14	2017A03P03	2	1.38%
Elig.Supplier_14	2017A04P04	4	0.56%
Elig.Supplier_14	2018A01P01	5	1.25%
Elig.Supplier_15	2017A03P03	1	0.69%
Elig.Supplier_15	2017A04P04	2	0.28%
Elig.Supplier_16	2017A02P02	1	0.69%
Elig.Supplier_16	2018A01P01	1	0.25%
Elig.Supplier_17	2017A04P04	1	0.14%
Elig.Supplier_17	2018A01P01	2	0.50%
Elig.Trader_03	2018A01P01	5	1.25%
Elig.Supplier_19	2017A04P04	7	0.98%

**Table.8e FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 05/2018**

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2017A02P02	30	20.69%
Elig.Supplier_01	2017A03P03	20	13.79%
Elig.Supplier_01	2017A04P04	105	14.62%
Elig.Supplier_01	2018A01P01	90	22.50%
Elig.Supplier_02	2017A02P02	30	20.69%
Elig.Supplier_02	2017A03P03	25	17.24%
Elig.Supplier_02	2017A04P04	131	18.25%
Elig.Supplier_02	2018A01P01	64	16.00%
Elig.Supplier_03	2017A02P02	30	20.69%
Elig.Supplier_03	2017A03P03	15	10.35%
Elig.Supplier_03	2017A04P04	111	21.03%
Elig.Supplier_03	2018A01P01	40	10.00%
Elig.Supplier_04	2017A02P02	20	13.79%
Elig.Supplier_04	2017A03P03	18	12.41%
Elig.Supplier_04	2017A04P04	70	9.75%
Elig.Supplier_04	2018A01P01	25	6.25%
Elig.Supplier_05	2017A02P02	14	9.66%
Elig.Supplier_05	2017A03P03	11	7.59%
Elig.Supplier_05	2017A04P04	56	7.80%
Elig.Supplier_05	2018A01P01	55	13.75%
Elig.Supplier_06	2017A02P02	6	4.14%
Elig.Supplier_06	2017A03P03	15	10.35%
Elig.Supplier_06	2017A04P04	29	4.04%
Elig.Supplier_06	2018A01P01	13	3.25%
Elig.Supplier_07	2017A02P02	5	3.45%
Elig.Supplier_07	2017A03P03	6	4.14%
Elig.Supplier_07	2017A04P04	28	3.90%
Elig.Supplier_08	2017A03P03	10	6.90%
Elig.Supplier_08	2017A04P04	10	1.39%
Elig.Supplier_08	2018A01P01	15	3.75%
Elig.Supplier_09	2017A02P02	5	3.45%
Elig.Supplier_09	2017A03P03	10	6.90%
Elig.Supplier_09	2017A04P04	50	6.96%

Elig.Supplier_09	2018A01P01	15	3.75%
Elig.Supplier_10	2017A03P03	4	2.76%
Elig.Supplier_10	2017A04P04	21	2.93%
Elig.Supplier_10	2018A01P01	40	10.00%
Elig.Supplier_11	2017A02P02	2	1.38%
Elig.Supplier_11	2017A03P03	3	2.07%
Elig.Supplier_11	2017A04P04	3	0.56%
Elig.Supplier_11	2018A01P01	8	2.00%
Elig.Trader_01	2017A04P04	10	1.39%
Elig.Trader_01	2018A01P01	10	2.50%
Elig.Supplier_13	2017A02P02	2	1.38%
Elig.Supplier_13	2018A01P01	1	0.25%
Elig.Trader_02	2017A03P03	5	3.45%
Elig.Supplier_14	2017A03P03	2	1.38%
Elig.Supplier_14	2017A04P04	4	0.56%
Elig.Supplier_14	2018A01P01	5	1.25%
Elig.Supplier_15	2017A03P03	1	0.69%
Elig.Supplier_15	2017A04P04	2	0.28%
Elig.Supplier_16	2017A02P02	1	0.69%
Elig.Supplier_16	2018A01P01	1	0.25%
Elig.Supplier_17	2017A04P04	1	0.14%
Elig.Supplier_17	2018A01P01	2	0.50%
Elig.Trader_03	2018A01P01	5	1.25%
Elig.Supplier_18	2018A01P01	10	2.50%
Elig.Supplier_19	2017A04P04	7	0.98%
Elig.Supplier_19	2018A01P01	1	0.25%

**Table.9f FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 06/2018**

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2017A03P03	20	13.79%
Elig.Supplier_01	2017A04P04	108	15.04%
Elig.Supplier_01	2018A01P01	100	25.00%
Elig.Supplier_01	2018A02P02	85	21.25%
Elig.Supplier_02	2017A03P03	25	17.24%
Elig.Supplier_02	2017A04P04	135	22.28%
Elig.Supplier_02	2018A01P01	60	15.00%
Elig.Supplier_02	2018A02P02	70	17.50%
Elig.Supplier_03	2017A03P03	15	10.35%
Elig.Supplier_03	2017A04P04	151	21.03%
Elig.Supplier_03	2018A01P01	40	10.00%
Elig.Supplier_03	2018A02P02	30	7.50%
Elig.Supplier_04	2017A03P03	18	12.41%
Elig.Supplier_04	2017A04P04	74	10.31%
Elig.Supplier_04	2018A01P01	25	6.25%
Elig.Supplier_04	2018A02P02	26	6.50%
Elig.Supplier_05	2017A03P03	11	7.59%
Elig.Supplier_05	2017A04P04	56	7.80%
Elig.Supplier_05	2018A01P01	55	13.75%
Elig.Supplier_05	2018A02P02	10	2.50%
Elig.Supplier_06	2017A03P03	15	10.35%
Elig.Supplier_06	2017A04P04	29	4.04%
Elig.Supplier_06	2018A01P01	13	3.25%
Elig.Supplier_06	2018A02P02	6	1.50%
Elig.Supplier_07	2017A03P03	6	4.14%
Elig.Supplier_07	2017A04P04	28	3.90%
Elig.Supplier_07	2018A02P02	6	1.50%
Elig.Supplier_08	2017A03P03	10	6.90%
Elig.Supplier_08	2017A04P04	10	1.39%

Elig.Supplier_08	2018A01P01	15	3.75%
Elig.Supplier_08	2018A02P02	45	11.25%
Elig.Supplier_09	2017A03P03	10	6.90%
Elig.Supplier_09	2017A04P04	30	6.96%
Elig.Supplier_09	2018A01P01	15	3.75%
Elig.Supplier_09	2018A02P02	10	2.50%
Elig.Supplier_10	2017A03P03	4	2.76%
Elig.Supplier_10	2017A04P04	21	2.93%
Elig.Supplier_10	2018A01P01	30	7.50%
Elig.Supplier_10	2018A02P02	10	2.50%
Elig.Supplier_11	2017A03P03	3	2.07%
Elig.Supplier_11	2017A04P04	4	0.56%
Elig.Supplier_11	2018A01P01	8	2.00%
Elig.Supplier_11	2018A02P02	5	1.25%
Elig.Supplier_12	2017A04P04	10	1.39%
Elig.Supplier_13	2018A01P01	1	0.25%
Elig.Supplier_13	2018A02P02	3	0.75%
Elig.Supplier_14	2017A03P03	2	1.38%
Elig.Supplier_14	2017A04P04	4	0.56%
Elig.Supplier_14	2018A01P01	5	1.25%
Elig.Supplier_14	2018A02P02	3	0.75%
Elig.Supplier_15	2017A03P03	1	0.69%
Elig.Supplier_15	2017A04P04	2	0.28%
Elig.Supplier_16	2018A01P01	1	0.25%
Elig.Supplier_16	2018A02P02	1	0.25%
Elig.Supplier_17	2017A04P04	1	0.14%
Elig.Supplier_17	2018A01P01	2	0.50%
Elig.Supplier_18	2018A01P01	10	2.50%
Elig.Supplier_18	2018A02P02	1	0.25%
Elig.Supplier_19	2018A01P01	5	1.25%
Elig.Supplier_19	2018A02P02	4	1.00%
Elig.Trader_01	2017A04P04	10	1.39%
Elig.Trader_01	2018A01P01	10	2.50%
Elig.Trader_01	2018A02P02	40	10.00%
Elig.Trader_02	2018A02P02	45	11.25%
Elig.Trader_03	2018A01P01	5	1.25%

**Table.9g FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 07/2018**

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2017A03P03	20	13.79%
Elig.Supplier_01	2017A04P04	121	16.85%
Elig.Supplier_01	2018A01P01	90	22.50%
Elig.Supplier_01	2018A02P02	89	22.25%
Elig.Supplier_02	2017A03P03	25	17.24%
Elig.Supplier_02	2017A04P04	155	21.59%
Elig.Supplier_02	2018A01P01	60	15.00%
Elig.Supplier_02	2018A02P02	70	17.50%
Elig.Supplier_03	2017A03P03	15	10.35%
Elig.Supplier_03	2017A04P04	146	20.33%
Elig.Supplier_03	2018A01P01	40	10.00%
Elig.Supplier_03	2018A02P02	30	7.50%
Elig.Supplier_04	2017A03P03	18	12.41%
Elig.Supplier_04	2017A04P04	74	10.31%
Elig.Supplier_04	2018A01P01	25	6.25%
Elig.Supplier_04	2018A02P02	36	9.00%
Elig.Supplier_05	2017A03P03	11	7.59%
Elig.Supplier_05	2017A04P04	56	7.80%
Elig.Supplier_05	2018A01P01	55	13.75%



Elig.Supplier_05	2018A02P02	10	2.50%
Elig.Supplier_06	2017A03P03	15	10.35%
Elig.Supplier_06	2017A04P04	29	4.04%
Elig.Supplier_06	2018A01P01	13	3.25%
Elig.Supplier_06	2018A02P02	6	1.50%
Elig.Supplier_07	2017A03P03	11	7.59%
Elig.Supplier_07	2017A04P04	33	4.60%
Elig.Supplier_07	2018A01P01	2	0.50%
Elig.Supplier_07	2018A02P02	6	1.50%
Elig.Supplier_08	2017A03P03	10	6.90%
Elig.Supplier_08	2017A04P04	10	1.39%
Elig.Supplier_08	2018A01P01	15	3.75%
Elig.Supplier_08	2018A02P02	45	11.25%
Elig.Supplier_09	2017A03P03	10	6.90%
Elig.Supplier_09	2017A04P04	40	5.57%
Elig.Supplier_09	2018A01P01	15	3.75%
Elig.Supplier_09	2018A02P02	10	2.50%
Elig.Supplier_10	2017A03P03	4	2.76%
Elig.Supplier_10	2017A04P04	15	2.09%
Elig.Supplier_10	2018A01P01	40	10.00%
Elig.Supplier_10	2018A02P02	4	1.00%
Elig.Supplier_11	2017A04P04	10	1.39%
Elig.Supplier_11	2018A01P01	10	2.50%
Elig.Supplier_11	2018A02P02	30	7.50%
Elig.Supplier_12	2018A02P02	45	11.25%
Elig.Supplier_13	2017A04P04	15	2.09%
Elig.Supplier_14	2018A01P01	1	0.25%
Elig.Supplier_14	2018A02P02	3	0.75%
Elig.Supplier_15	2018A01P01	10	2.50%
Elig.Supplier_15	2018A02P02	1	0.25%
Elig.Supplier_16	2018A01P01	2	0.50%
Elig.Supplier_17	2017A03P03	1	0.69%
Elig.Supplier_17	2017A04P04	2	0.28%
Elig.Supplier_18	2018A01P01	1	0.25%
Elig.Supplier_18	2018A02P02	1	0.25%
Elig.Supplier_19	2017A04P04	1	0.14%
Elig.Supplier_19	2018A01P01	2	0.50%
Elig.Trader_01	2017A03P03	3	2.07%
Elig.Trader_01	2017A04P04	4	0.56%
Elig.Trader_01	2018A01P01	8	2.00%
Elig.Trader_01	2018A02P02	5	1.25%
Elig.Trader_02	2017A03P03	2	1.38%
Elig.Trader_02	2017A04P04	4	0.56%
Elig.Trader_02	2018A01P01	6	1.50%
Elig.Trader_02	2018A02P02	3	0.75%
Elig.Trader_03	2017A04P04	3	0.42%
Elig.Trader_03	2018A01P01	5	1.25%
Elig.Trader_03	2018A02P02	6	1.50%

Table.9h FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 08/2018

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2017A03P03	20	13.79%
Elig.Supplier_01	2017A04P04	127	17.69%
Elig.Supplier_01	2018A01P01	90	22.50%
Elig.Supplier_01	2018A02P02	81	20.25%
Elig.Supplier_02	2017A03P03	25	17.24%

Elig.Supplier_02	2017A04P04	155	21.59%
Elig.Supplier_02	2018A01P01	60	15.00%
Elig.Supplier_02	2018A02P02	70	17.50%
Elig.Supplier_03	2017A03P03	15	10.35%
Elig.Supplier_03	2017A04P04	146	20.33%
Elig.Supplier_03	2018A01P01	40	10.00%
Elig.Supplier_03	2018A02P02	30	7.50%
Elig.Supplier_04	2017A03P03	18	12.41%
Elig.Supplier_04	2017A04P04	74	10.31%
Elig.Supplier_04	2018A01P01	25	6.25%
Elig.Supplier_04	2018A02P02	36	9.00%
Elig.Supplier_05	2017A03P03	11	7.59%
Elig.Supplier_05	2017A04P04	56	7.80%
Elig.Supplier_05	2018A01P01	55	13.75%
Elig.Supplier_05	2018A02P02	10	2.50%
Elig.Supplier_06	2017A03P03	15	10.35%
Elig.Supplier_06	2017A04P04	29	4.04%
Elig.Supplier_06	2018A01P01	13	3.25%
Elig.Supplier_06	2018A02P02	6	1.50%
Elig.Supplier_07	2017A03P03	11	7.59%
Elig.Supplier_07	2017A04P04	28	3.90%
Elig.Supplier_07	2018A01P01	2	0.50%
Elig.Supplier_07	2018A02P02	6	1.50%
Elig.Supplier_08	2017A03P03	10	6.90%
Elig.Supplier_08	2017A04P04	10	1.39%
Elig.Supplier_08	2018A01P01	15	3.75%
Elig.Supplier_08	2018A02P02	45	11.25%
Elig.Supplier_09	2017A03P03	10	6.90%
Elig.Supplier_09	2017A04P04	45	6.27%
Elig.Supplier_09	2018A01P01	15	3.75%
Elig.Supplier_09	2018A02P02	10	2.50%
Elig.Supplier_10	2017A03P03	4	2.76%
Elig.Supplier_10	2017A04P04	9	1.25%
Elig.Supplier_10	2018A01P01	40	10.00%
Elig.Supplier_10	2018A02P02	10	2.50%
Elig.Supplier_11	2017A04P04	10	1.39%
Elig.Supplier_11	2018A01P01	10	2.50%
Elig.Supplier_11	2018A02P02	30	7.50%
Elig.Supplier_12	2018A02P02	45	11.25%
Elig.Supplier_13	2017A04P04	15	2.09%
Elig.Supplier_14	2018A01P01	1	0.25%
Elig.Supplier_14	2018A02P02	3	0.75%
Elig.Supplier_15	2018A01P01	10	2.50%
Elig.Supplier_15	2018A02P02	3	0.75%
Elig.Supplier_17	2017A03P03	1	0.69%
Elig.Supplier_17	2017A04P04	2	0.28%
Elig.Supplier_18	2018A01P01	1	0.25%
Elig.Supplier_18	2018A02P02	1	0.25%
Elig.Supplier_19	2017A04P04	1	0.14%
Elig.Supplier_19	2018A01P01	2	0.50%
Elig.Trader_01	2017A03P03	3	2.07%
Elig.Trader_01	2017A04P04	4	0.56%
Elig.Trader_01	2018A01P01	8	2.00%
Elig.Trader_01	2018A02P02	5	1.25%
Elig.Trader_02	2017A03P03	2	1.38%
Elig.Trader_02	2017A04P04	4	0.56%
Elig.Trader_02	2018A01P01	8	2.00%
Elig.Trader_02	2018A02P02	3	0.75%

Elig.Trader_03	2017A04P04	3	0.42%
Elig.Trader_03	2018A01P01	5	1.25%
Elig.Trader_03	2018A02P02	6	1.50%
Elig.Trader_03	2018A02P02	6	1.50%

Table.9j FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 09/2018

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2018A03P03	89	22.25%
Elig.Supplier_01	2017A04P04	113	15.74%
Elig.Supplier_01	2018A01P01	90	22.50%
Elig.Supplier_01	2018A02P02	81	20.25%
Elig.Supplier_02	2017A04P04	160	22.28%
Elig.Supplier_02	2018A01P01	60	15.00%
Elig.Supplier_02	2018A02P02	70	17.50%
Elig.Supplier_02	2018A03P03	55	13.75%
Elig.Supplier_03	2018A02P02	30	7.50%
Elig.Supplier_03	2018A03P03	40	10.00%
Elig.Supplier_03	2017A04P04	151	21.03%
Elig.Supplier_03	2018A01P01	40	10.00%
Elig.Supplier_04	2017A04P04	74	10.31%
Elig.Supplier_04	2018A01P01	25	6.25%
Elig.Supplier_04	2018A02P02	26	6.50%
Elig.Supplier_04	2018A03P03	47	11.75%
Elig.Supplier_05	2017A04P04	56	7.80%
Elig.Supplier_05	2018A01P01	55	13.75%
Elig.Supplier_05	2018A02P02	10	2.50%
Elig.Supplier_05	2018A03P03	10	2.50%
Elig.Supplier_06	2017A04P04	29	4.04%
Elig.Supplier_06	2018A01P01	13	3.25%
Elig.Supplier_06	2018A02P02	6	1.50%
Elig.Supplier_06	2018A03P03	28	7.00%
Elig.Supplier_07	2017A04P04	28	3.90%
Elig.Supplier_07	2018A02P02	6	1.50%
Elig.Supplier_07	2018A03P03	18	4.50%
Elig.Supplier_08	2017A04P04	10	1.39%
Elig.Supplier_08	2018A01P01	15	3.75%
Elig.Supplier_08	2018A02P02	45	11.25%
Elig.Supplier_08	2018A03P03	20	5.00%
Elig.Supplier_09	2017A04P04	50	6.96%
Elig.Supplier_09	2018A01P01	15	3.75%
Elig.Supplier_09	2018A02P02	10	2.50%
Elig.Supplier_09	2018A03P03	30	7.50%
Elig.Supplier_10	2017A04P04	13	1.81%
Elig.Supplier_10	2018A01P01	40	10.00%
Elig.Supplier_10	2018A02P02	10	2.50%
Elig.Supplier_10	2017A04P04	13	1.81%
Elig.Supplier_10	2018A01P01	40	10.00%
Elig.Supplier_10	2018A02P02	10	2.50%
Elig.Supplier_11	2017A04P04	10	1.39%
Elig.Supplier_11	2018A01P01	10	2.50%
Elig.Supplier_11	2018A02P02	40	10.00%
Elig.Supplier_11	2017A04P04	10	1.39%
Elig.Supplier_11	2018A01P01	10	2.50%
Elig.Supplier_11	2018A02P02	40	10.00%
Elig.Supplier_12	2017A04P04	4	0.56%
Elig.Supplier_12	2018A01P01	8	2.00%
Elig.Supplier_12	2018A02P02	5	1.25%
Elig.Supplier_12	2017A04P04	4	0.56%
Elig.Supplier_12	2018A01P01	8	2.00%

Elig.Supplier_12	2018A02P02	5	1.25%
Elig.Supplier_13	2017A04P04	10	1.39%
Elig.Supplier_13	2018A03P03	15	3.75%
Elig.Supplier_13	2017A04P04	10	1.39%
Elig.Supplier_13	2018A03P03	15	3.75%
Elig.Supplier_14	2018A01P01	1	0.25%
Elig.Supplier_14	2018A02P02	3	0.75%
Elig.Supplier_14	2018A01P01	1	0.25%
Elig.Supplier_14	2018A02P02	3	0.75%
Elig.Supplier_15	2018A01P01	10	2.50%
Elig.Supplier_15	2018A02P02	3	0.75%
Elig.Supplier_15	2018A03P03	1	0.25%
Elig.Supplier_15	2018A01P01	10	2.50%
Elig.Supplier_15	2018A02P02	3	0.75%
Elig.Supplier_15	2018A03P03	1	0.25%
Elig.Supplier_16	2017A04P04	3	0.42%
Elig.Supplier_16	2018A01P01	5	1.25%
Elig.Supplier_16	2018A02P02	6	1.50%
Elig.Supplier_16	2018A03P03	26	6.50%
Elig.Supplier_16	2017A04P04	3	0.42%
Elig.Supplier_16	2018A01P01	5	1.25%
Elig.Supplier_16	2018A02P02	6	1.50%
Elig.Supplier_16	2018A03P03	26	6.50%
Elig.Supplier_17	2017A04P04	2	0.28%
Elig.Supplier_17	2018A03P03	1	0.25%
Elig.Supplier_17	2017A04P04	2	0.28%
Elig.Supplier_17	2018A03P03	1	0.25%
Elig.Supplier_18	2018A01P01	1	0.25%
Elig.Supplier_18	2018A02P02	1	0.25%
Elig.Supplier_18	2018A01P01	1	0.25%
Elig.Supplier_18	2018A02P02	1	0.25%
Elig.Supplier_19	2017A04P04	1	0.14%
Elig.Supplier_19	2018A01P01	2	0.50%
Elig.Supplier_19	2017A04P04	1	0.14%
Elig.Supplier_19	2018A01P01	2	0.50%
Elig.Trader_01	2018A02P02	45	11.25%
Elig.Trader_01	2018A02P02	45	11.25%
Elig.Trader_02	2017A04P04	4	0.56%
Elig.Trader_02	2018A01P01	10	2.50%
Elig.Trader_02	2018A02P02	3	0.75%
Elig.Trader_02	2018A03P03	10	2.50%
Elig.Trader_02	2017A04P04	4	0.56%
Elig.Trader_02	2018A01P01	10	2.50%
Elig.Trader_02	2018A02P02	3	0.75%
Elig.Trader_02	2018A03P03	10	2.50%
Elig.Trader_03	2018A03P03	10	2.50%
Elig.Trader_03	2018A03P03	10	2.50%

Table.9k FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 10/2018

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2017A04P04	113	15.74%
Elig.Supplier_01	2018A01P01	93	23.25%
Elig.Supplier_02	2017A04P04	160	22.28%
Elig.Supplier_02	2018A01P01	60	15.00%
Elig.Supplier_02	2018A02P02	70	17.50%
Elig.Supplier_02	2018A03P03	55	13.75%
Elig.Supplier_03	2017A04P04	151	21.03%
Elig.Supplier_03	2018A01P01	40	10.00%

Elig.Supplier_03	2018A02P02	30	7.50%
Elig.Supplier_03	2018A03P03	40	10.00%
Elig.Supplier_04	2017A04P04	74	10.31%
Elig.Supplier_04	2018A01P01	25	6.25%
Elig.Supplier_04	2018A02P02	26	6.50%
Elig.Supplier_04	2018A03P03	47	11.75%
Elig.Supplier_05	2017A04P04	56	7.80%
Elig.Supplier_05	2018A01P01	55	13.75%
Elig.Supplier_05	2018A02P02	10	2.50%
Elig.Supplier_05	2018A03P03	10	2.50%
Elig.Supplier_06	2017A04P04	29	4.04%
Elig.Supplier_06	2018A01P01	13	3.25%
Elig.Supplier_06	2018A02P02	6	1.50%
Elig.Supplier_06	2018A03P03	28	7.00%
Elig.Supplier_07	2017A04P04	28	3.90%
Elig.Supplier_07	2018A01P01	5	1.25%
Elig.Supplier_07	2018A02P02	6	1.50%
Elig.Supplier_07	2018A03P03	26	6.50%
Elig.Supplier_08	2017A04P04	10	1.39%
Elig.Supplier_08	2018A01P01	15	3.75%
Elig.Supplier_08	2018A02P02	45	11.25%
Elig.Supplier_08	2018A03P03	20	5.00%
Elig.Supplier_09	2017A04P04	50	6.96%
Elig.Supplier_09	2018A01P01	15	3.75%
Elig.Supplier_09	2018A02P02	10	2.50%
Elig.Supplier_09	2018A03P03	35	8.75%
Elig.Supplier_10	2017A04P04	13	1.81%
Elig.Supplier_10	2018A01P01	40	10.00%
Elig.Supplier_10	2018A02P02	10	2.50%
Elig.Supplier_11	2017A04P04	10	1.39%
Elig.Supplier_11	2018A01P01	10	2.50%
Elig.Supplier_11	2018A02P02	40	10.00%
Elig.Trader_01	2018A02P02	45	11.25%
Elig.Supplier_01	2018A02P02	81	20.25%
Elig.Supplier_01	2018A03P03	88	22.00%
Elig.Supplier_17	2017A04P04	2	0.28%
Elig.Supplier_17	2018A03P03	1	0.25%
Elig.Supplier_12	2017A04P04	4	0.56%
Elig.Supplier_12	2018A01P01	8	2.00%
Elig.Trader_02	2018A03P03	15	3.75%
Elig.Supplier_13	2018A01P01	2	0.50%
Elig.Supplier_13	2018A02P02	3	0.75%
Elig.Supplier_13	2018A03P03	10	2.50%
Elig.Supplier_12	2018A02P02	5	1.25%
Elig.Trader_03	2018A03P03	10	2.50%
Elig.Trader_02	2017A04P04	10	1.39%
Elig.Supplier_14	2017A04P04	3	0.42%
Elig.Supplier_14	2018A01P01	5	1.25%
Elig.Supplier_14	2018A02P02	6	1.50%
Elig.Supplier_14	2018A03P03	11	2.75%
Elig.Supplier_15	2018A01P01	10	2.50%
Elig.Supplier_15	2018A02P02	3	0.75%
Elig.Supplier_16	2018A02P02	3	0.75%
Elig.Supplier_15	2018A03P03	3	0.75%
Elig.Supplier_16	2018A01P01	1	0.25%
Elig.Supplier_18	2018A01P01	1	0.25%
Elig.Supplier_18	2018A02P02	1	0.25%
Elig.Supplier_13	2017A04P04	4	0.56%
Elig.Supplier_19	2017A04P04	1	0.14%
Elig.Supplier_19	2018A01P01	2	0.50%
Elig.Supplier_21	2018A03P03	1	0.25%

**Table.9I FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 11/2018**

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2017A04P04	113	15.74%
Elig.Supplier_01	2018A01P01	90	22.50%
Elig.Supplier_01	2018A02P02	81	20.25%
Elig.Supplier_01	2018A03P03	74	18.50%
Elig.Supplier_02	2017A04P04	160	22.28%
Elig.Supplier_02	2018A01P01	60	15.00%
Elig.Supplier_02	2018A02P02	70	17.50%
Elig.Supplier_02	2018A03P03	55	13.75%
Elig.Supplier_03	2017A04P04	151	21.03%
Elig.Supplier_03	2018A01P01	40	10.00%
Elig.Supplier_03	2018A02P02	30	7.50%
Elig.Supplier_03	2018A03P03	40	10.00%
Elig.Supplier_04	2017A04P04	74	10.31%
Elig.Supplier_04	2018A01P01	25	6.25%
Elig.Supplier_04	2018A02P02	26	6.50%
Elig.Supplier_04	2018A03P03	47	11.75%
Elig.Supplier_05	2017A04P04	56	7.80%
Elig.Supplier_05	2018A01P01	61	15.25%
Elig.Supplier_05	2018A02P02	10	2.50%
Elig.Supplier_05	2018A03P03	15	3.75%
Elig.Supplier_06	2017A04P04	29	4.04%
Elig.Supplier_06	2018A01P01	13	3.25%
Elig.Supplier_06	2018A02P02	6	1.50%
Elig.Supplier_06	2018A03P03	28	7.00%
Elig.Supplier_07	2017A04P04	28	3.90%
Elig.Supplier_07	2018A02P02	6	1.50%
Elig.Supplier_07	2018A03P03	16	4.00%
Elig.Supplier_08	2017A04P04	10	1.39%
Elig.Supplier_08	2018A01P01	15	3.75%
Elig.Supplier_08	2018A02P02	45	11.25%
Elig.Supplier_08	2018A03P03	20	5.00%
Elig.Supplier_09	2017A04P04	50	6.96%
Elig.Supplier_09	2018A01P01	15	3.75%
Elig.Supplier_09	2018A02P02	10	2.50%
Elig.Supplier_09	2018A03P03	44	11.00%
Elig.Supplier_10	2017A04P04	13	1.81%
Elig.Supplier_10	2018A01P01	40	10.00%
Elig.Supplier_10	2018A02P02	10	2.50%
Elig.Supplier_11	2017A04P04	10	1.39%
Elig.Supplier_11	2018A01P01	10	2.50%
Elig.Supplier_11	2018A02P02	40	10.00%
Elig.Trader_01	2018A02P02	45	11.25%
Elig.Supplier_12	2017A04P04	4	0.56%
Elig.Supplier_12	2018A01P01	8	2.00%
Elig.Supplier_12	2018A02P02	5	1.25%
Elig.Trader_02	2017A04P04	10	1.39%
Elig.Trader_02	2018A03P03	15	3.75%
Elig.Supplier_13	2017A04P04	4	0.56%
Elig.Supplier_13	2018A01P01	4	1.00%
Elig.Supplier_13	2018A02P02	3	0.75%
Elig.Supplier_13	2018A03P03	10	2.50%
Elig.Supplier_14	2017A04P04	3	0.42%
Elig.Supplier_14	2018A01P01	5	1.25%
Elig.Supplier_14	2018A02P02	6	1.50%
Elig.Supplier_14	2018A03P03	26	6.50%
Elig.Supplier_15	2018A01P01	10	2.50%
Elig.Supplier_15	2018A02P02	3	0.75%
Elig.Supplier_15	2018A03P03	1	0.25%
Elig.Supplier_16	2018A01P01	1	0.25%

Elig.Supplier_16	2018A02P02	3	0.75%
Elig.Trader_03	2018A03P03	7	3.50%
Elig.Supplier_17	2017A04P04	2	0.28%
Elig.Supplier_17	2018A03P03	1	0.25%
Elig.Supplier_18	2018A01P01	1	0.25%
Elig.Supplier_18	2018A02P02	1	0.25%
Elig.Supplier_19	2017A04P04	1	0.14%
Elig.Supplier_19	2018A01P01	2	0.50%
Elig.Supplier_21	2018A03P03	1	0.25%

Table.9m FEPAS Nominations Usage Declarations Summary for Monthly Forward Sub-products - 12/2018

ELIGIBLE SUPPLIER	PRODUCT CODE	TOTAL NOM USG MW	PRODUCT USG_DCL_SHARE
Elig.Supplier_01	2018A01P01	90	22.50%
Elig.Supplier_01	2018A02P02	81	20.25%
Elig.Supplier_01	2018A03P03	74	18.50%
Elig.Supplier_01	2018A04P04	149	21.82%
Elig.Supplier_02	2018A01P01	60	15.00%
Elig.Supplier_02	2018A02P02	70	17.50%
Elig.Supplier_02	2018A03P03	55	13.75%
Elig.Supplier_02	2018A04P04	145	21.23%
Elig.Supplier_03	2018A01P01	40	10.00%
Elig.Supplier_03	2018A02P02	30	7.50%
Elig.Supplier_03	2018A03P03	40	10.00%
Elig.Supplier_03	2018A04P04	115	16.84%
Elig.Supplier_04	2018A01P01	30	7.50%
Elig.Supplier_04	2018A02P02	25	6.25%
Elig.Supplier_04	2018A03P03	47	11.75%
Elig.Supplier_04	2018A04P04	70	10.25%
Elig.Supplier_05	2018A01P01	55	13.75%
Elig.Supplier_05	2018A02P02	10	2.50%
Elig.Supplier_05	2018A03P03	16	4.00%
Elig.Supplier_05	2018A04P04	63	9.22%
Elig.Supplier_06	2018A01P01	13	3.25%
Elig.Supplier_06	2018A02P02	6	1.50%
Elig.Supplier_06	2018A03P03	28	7.00%
Elig.Supplier_06	2018A04P04	25	3.66%
Elig.Supplier_07	2018A01P01	15	3.75%
Elig.Supplier_07	2018A02P02	45	11.25%
Elig.Supplier_07	2018A04P04	10	1.46%
Elig.Supplier_08	2018A01P01	15	3.75%
Elig.Supplier_08	2018A02P02	10	2.50%
Elig.Supplier_08	2018A03P03	65	16.25%
Elig.Supplier_08	2018A04P04	8	1.17%
Elig.Supplier_09	2018A02P02	6	1.50%
Elig.Supplier_09	2018A03P03	16	4.00%
Elig.Supplier_09	2018A04P04	28	4.10%
Elig.Supplier_10	2018A01P01	40	10.00%
Elig.Supplier_10	2018A02P02	10	2.50%
Elig.Supplier_10	2018A04P04	30	4.39%
Elig.Supplier_11	2018A01P01	10	2.50%
Elig.Supplier_11	2018A02P02	40	10.00%
Elig.Supplier_11	2018A04P04	10	1.46%
Elig.Trader_01	2018A02P02	45	11.25%
Elig.Supplier_12	2018A01P01	8	2.00%
Elig.Supplier_12	2018A02P02	5	1.25%
Elig.Supplier_12	2018A04P04	10	1.46%
Elig.Trader_02	2018A03P03	15	3.75%
Elig.Trader_02	2018A04P04	10	1.46%
Elig.Supplier_13	2018A02P02	7	1.75%
Elig.Supplier_13	2018A03P03	26	6.50%



Elig.Supplier_14	2018A01P01	6	1.50%
Elig.Supplier_14	2018A02P02	3	0.75%
Elig.Supplier_14	2018A03P03	10	2.50%
Elig.Supplier_14	2018A04P04	4	0.59%
Elig.Supplier_15	2018A01P01	10	2.50%
Elig.Supplier_15	2018A02P02	3	0.75%
Elig.Supplier_15	2018A03P03	2	0.50%
Elig.Supplier_16	2018A01P01	1	0.25%
Elig.Supplier_16	2018A02P02	3	0.75%
Elig.Supplier_16	2018A04P04	2	0.44%
Elig.Trader_03	2018A01P01	4	1.00%
Elig.Trader_03	2018A03P03	5	1.25%
Elig.Supplier_17	2018A03P03	1	0.25%
Elig.Supplier_18	2018A01P01	1	0.25%
Elig.Supplier_18	2018A02P02	1	0.25%
Elig.Supplier_18	2018A04P04	1	0.15%
Elig.Supplier_19	2018A01P01	2	0.50%
Elig.Supplier_19	2018A04P04	1	0.15%
Elig.Supplier_20	2018A04P04	1	0.15%

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.



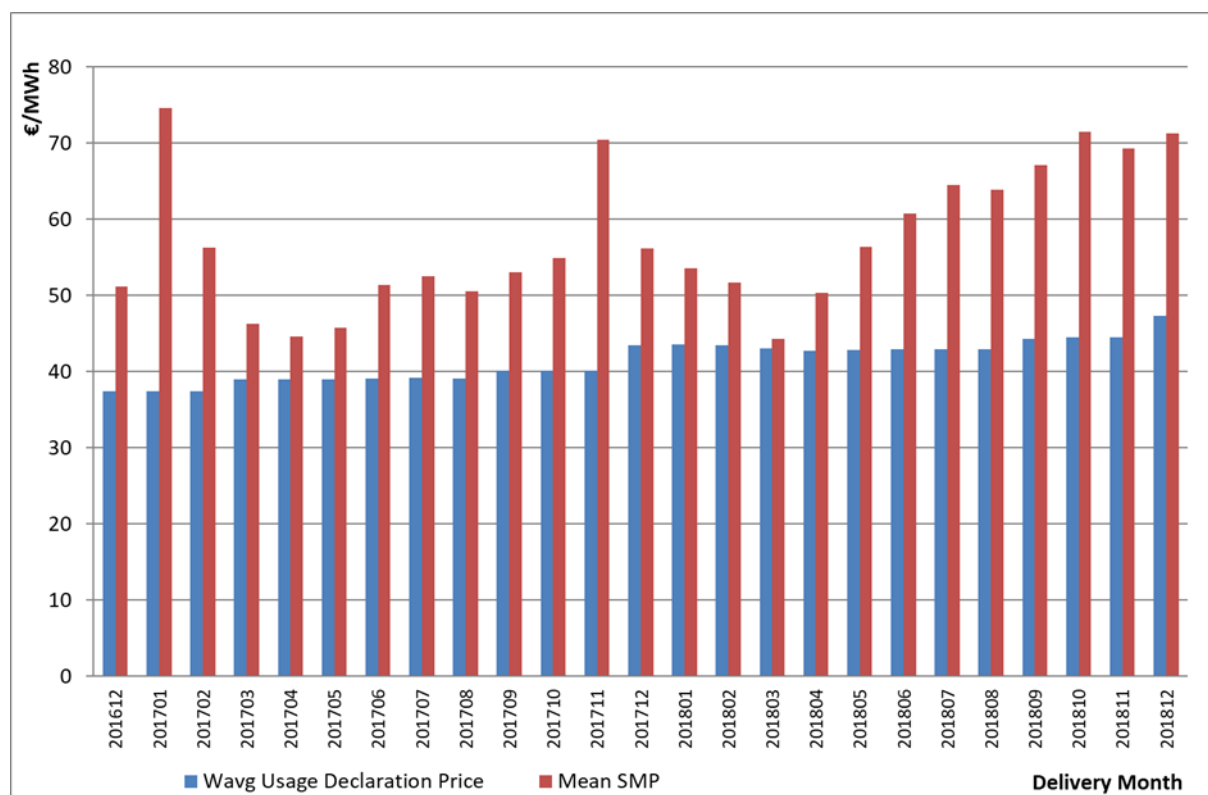
## 7. Supplementary Clearing of the Nominated Forward Daily/Hourly Sub-products in the Day-Ahead Market (DAS)

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, it is calculated the benefit/loss for each Eligible Supplier and Trader as specified in the PECFEPAS provisions.

### Weighted Average Price of Usage Declarations

Figure 14. 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.14 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.10 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 December 2018. 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.10 Benefit of the Eligible Suppliers and Traders according to the DAS Supplementary Clearing results**

	12 2016			Year 2017			First Quarter 2018			Second Quarter 2018			Third Quarter 2018			10 2018		11 2018		12 2018			12 2016 – 12 2018			
Delivery Month	DAS_DAEP (€)	NASC+ NASC OBLM (€)		DAS_DAEP (€)	NASC + OBLM (€)	NASC	DAS_DAEP (€)	NASC + OBLM (€)	NASC	DAS_DAEP (€)	NASC + OBLM (€)	NASC	DAS_DAEP (€)	NASC + OBLM (€)	NASC	DAS_DAEP (€)	NASC + NASC OBLM (€)	DAS_DAEP (€)	NASC + NASC OBLM (€)	DAS_DAEP (€)	NASC + OBLM (€)	NASC	NASC + NASC OBLM (€)			
Elig.Supplier_01	7,078,327	-	1,367,094	99,667,017	-	26,065,588	26,697,476	-	4,813,384	32,223,029	-	9,481,616	47,726,602	-	18,043,843	19,024,900	-	8,137,428	17,757,158	-	7,299,560	20,799,257	-	7,889,730	-	83,098,242
Elig.Supplier_02	6,411,493	-	1,321,806	99,621,204	-	26,200,981	25,081,590	-	4,600,518	31,565,085	-	8,677,944	45,951,788	-	16,939,546	17,520,366	-	7,400,495	17,171,075	-	6,794,489	17,604,582	-	6,394,385	-	78,330,164
Elig.Supplier_03	6,089,371	-	1,205,193	99,274,281	-	24,100,877	26,047,987	-	4,442,248	24,765,952	-	6,527,621	34,175,600	-	11,680,632	12,664,139	-	5,075,834	13,040,204	-	4,923,657	13,955,271	-	4,250,279	-	62,206,340
Elig.Supplier_04	2,134,288	-	573,107	36,973,329	-	11,579,404	12,912,786	-	2,534,975	15,064,264	-	4,425,838	22,787,911	-	8,467,771	8,813,020	-	3,680,721	8,524,978	-	3,394,534	9,263,270	-	3,344,823	-	38,001,173
Elig.Supplier_05	2,043,143	-	546,503	36,841,719	-	11,631,998	10,271,016	-	2,002,527	15,223,036	-	4,548,125	18,936,541	-	7,286,154	6,940,251	-	3,040,514	6,940,697	-	2,916,928	7,451,533	-	2,824,812	-	34,797,561
Elig.Supplier_06	1,290,481	-	248,643	22,940,076	-	5,494,930	6,884,293	-	1,146,335	8,296,296	-	2,098,708	13,082,415	-	3,588,814	4,331,832	-	1,611,501	4,002,918	-	1,430,260	4,293,966	-	1,400,154	-	17,019,345
Elig.Supplier_07	-	-	-	39,808,207	-	1,452,227	10,858,165	-	606,048	9,047,337	-	1,860,705	17,198,391	-	4,650,806	5,604,593	-	2,057,410	4,941,230	-	1,881,969	5,153,445	-	1,617,275	-	14,126,440
Elig.Supplier_08	-	-	-	3,819,290	-	1,110,418	3,366,737	-	644,129	5,102,215	-	1,421,361	12,033,021	-	4,279,041	5,671,636	-	2,336,013	5,607,067	-	2,171,808	5,220,178	-	1,980,870	-	13,943,641
Elig.Supplier_09	1,749,159	-	185,805	20,142,039	-	4,384,235	5,046,457	-	954,453	4,585,906	-	1,247,310	7,373,323	-	2,606,834	3,331,588	-	1,342,550	2,452,254	-	954,043	2,577,205	-	869,634	-	12,544,864
Elig.Supplier_10	103,512	-	32,971	3,089,179	-	849,060	3,808,787	-	546,035	6,734,039	-	1,750,236	9,226,073	-	3,060,295	3,069,197	-	1,194,132	2,939,782	-	1,153,968	4,162,035	-	1,530,142	-	10,116,839
Elig.Supplier_11	-	-	-	2,432,131	-	368,492	1,482,267	-	222,823	4,181,240	-	1,313,655	8,181,390	-	3,052,934	3,188,041	-	1,421,405	3,236,894	-	1,307,889	4,120,439	-	1,373,632	-	9,060,829
Elig.Trader_01	-	-	-	2,329,844	-	281,082	4,526,453	-	230,514	4,003,227	-	752,882	9,612,585	-	2,602,156	2,914,600	-	1,090,248	3,172,248	-	992,340	4,752,376	-	1,050,090	-	6,999,311
Elig.Supplier_12	-	-	-	5,908,963	-	1,150,116	1,873,022	-	309,575	2,183,090	-	496,521	2,937,538	-	903,375	850,906	-	278,841	870,909	-	265,494	1,116,572	-	308,262	-	3,712,185
Elig.Trader_02	-	-	-	1,680,478	-	443,627	1,367,790	-	294,345	371,752	-	115,909	2,548,811	-	892,034	1,594,653	-	508,879	1,503,424	-	463,972	1,374,723	-	447,239	-	3,166,004
Elig.Supplier_13	-	-	-	-	-	-	203,495	-	22,271	806,838	-	212,480	2,524,926	-	927,690	1,254,744	-	520,621	1,955,461	-	745,659	1,714,283	-	667,154	-	3,095,875
Elig.Supplier_14	-	-	-	1,054,450	-	260,427	939,363	-	126,853	1,304,503	-	314,611	2,407,733	-	860,929	863,416	-	338,830	1,087,816	-	399,278	1,374,723	-	467,569	-	2,768,497
Elig.Supplier_15	-	-	-	-	-	-	354,843	-	41,836	1,096,861	-	351,392	1,847,537	-	720,836	668,757	-	293,625	699,037	-	297,648	828,788	-	345,756	-	2,051,093
Elig.Supplier_16	88,261	-	22,435	1,541,281	-	531,088	225,382	-	56,045	490,175	-	132,809	712,919	-	234,112	230,757	-	96,144	205,090	-	80,699	290,543	-	106,157	-	1,259,487
Elig.Trader_03	-	-	-	563,209	-	199,693	270,902	-	47,927	541,335	-	174,841	520,636	-	172,194	480,903	-	177,137	349,265	-	122,803	622,308	-	195,415	-	1,090,010
Elig.Supplier_17	62,496	-	12,425	967,002	-	238,217	352,615	-	57,114	385,833	-	97,413	446,324	-	156,191	165,601	-	64,150	155,328	-	57,452	55,008	-	19,580	-	702,541
Elig.Supplier_18	-	-	-	1,015,572	-	250,881	212,802	-	52,239	320,825	-	80,271	527,164	-	118,195	188,186	-	49,296	166,491	-	44,612	146,747	-	49,602	-	645,096
Elig.Supplier_19	102,435	-	20,695	1,385,701	-	227,440	292,784	-	35,918	373,059	-	45,197	403,068	-	64,915	173,652	-	30,847	162,670	-	27,867	151,922	-	29,838	-	482,718
Elig.Supplier_20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41,081	-	15,317	40,908	-	14,555	45,248	-	13,046	-	42,918
Elig.Supplier_21	-	-	-	90,979	-	21,708	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21,708	
Elig.Trader_04	-	-	-	1,432,065	-	13,299	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,299	
Total	27,152,965	-	5,536,678	482,578,016	-	116,855,787	143,077,010	-	23,788,111	168,665,896	-	46,127,444	261,162,294	-	91,309,297	99,586,819	-	40,761,935	96,982,902	-	37,741,485	107,074,424	-	37,175,442	-	399,296,179

## 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, it has been 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.15, Table.11 and Table.12 illustrate the fluctuation of the Mean Hourly Utilization Factor of the Daily Sub-products:

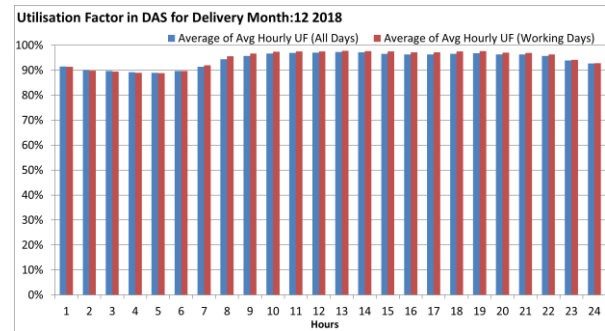
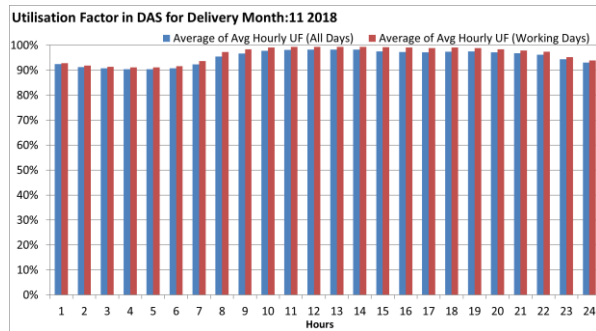
- For all Holders and delivery months January 2018 – December 2018
- For each Holder during period: 01/01/2018 – 31/12/2018

The Utilization Factor is calculated:

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

**Figure.15 Mean Hourly Utilization Factor of Daily Sub-Products for every physical delivery month of 2018.**





**Table.11 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
201801	All Days	89%	86%	85%	84%	84%	85%	87%	90%	91%	92%	92%	92%	92%	91%	91%	91%	91%	91%	92%	92%	92%	91%	88%	87%	89%
	Working Days	90%	87%	86%	86%	86%	86%	90%	93%	94%	95%	95%	95%	94%	94%	94%	94%	94%	94%	95%	95%	95%	93%	91%	90%	92%
201802	All Days	93%	91%	90%	90%	90%	91%	94%	95%	96%	96%	96%	96%	96%	96%	95%	95%	95%	96%	96%	96%	96%	96%	93%	92%	94%
	Working Days	95%	93%	92%	92%	92%	93%	97%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	96%	95%	97%
201803	All Days	82%	78%	77%	76%	76%	76%	79%	84%	86%	87%	87%	87%	87%	87%	86%	85%	85%	85%	86%	86%	86%	84%	81%	80%	83%
	Working Days	83%	79%	78%	78%	78%	79%	82%	88%	90%	91%	91%	91%	91%	91%	90%	90%	89%	89%	89%	90%	90%	88%	84%	83%	86%
201804	All Days	86%	83%	82%	82%	82%	82%	84%	87%	90%	91%	92%	92%	92%	92%	90%	89%	89%	89%	90%	90%	91%	90%	88%	86%	88%
	Working Days	88%	87%	86%	85%	85%	86%	89%	93%	96%	97%	97%	97%	97%	97%	96%	95%	95%	94%	95%	94%	95%	94%	91%	90%	93%
201805	All Days	89%	86%	85%	84%	84%	84%	87%	90%	92%	93%	94%	94%	94%	94%	92%	91%	91%	91%	91%	91%	91%	91%	89%	87%	90%
	Working Days	89%	87%	86%	85%	85%	85%	89%	93%	95%	96%	96%	96%	96%	96%	95%	95%	94%	94%	93%	93%	94%	94%	91%	89%	92%
201806	All Days	91%	88%	86%	86%	86%	86%	88%	91%	93%	94%	95%	95%	96%	95%	95%	94%	93%	93%	93%	92%	93%	93%	92%	91%	92%
	Working Days	92%	90%	89%	88%	88%	89%	91%	95%	97%	98%	99%	99%	99%	99%	98%	98%	97%	96%	96%	96%	96%	95%	94%	95%	
201807	All Days	96%	96%	95%	94%	94%	94%	95%	97%	98%	98%	99%	99%	99%	99%	99%	98%	98%	97%	97%	97%	96%	96%	96%	96%	97%
	Working Days	97%	96%	96%	95%	95%	95%	97%	99%	99%	100%	100%	100%	100%	100%	100%	99%	99%	99%	99%	98%	98%	98%	97%	97%	98%
201808	All Days	94%	93%	93%	92%	92%	92%	93%	95%	96%	98%	98%	98%	99%	99%	98%	97%	97%	97%	97%	97%	96%	96%	95%	95%	96%
	Working Days	95%	94%	93%	93%	92%	93%	95%	97%	98%	99%	100%	100%	100%	100%	99%	99%	99%	98%	98%	98%	97%	97%	96%	96%	97%
201809	All Days	91%	89%	88%	88%	88%	88%	89%	91%	92%	93%	94%	94%	95%	95%	94%	93%	92%	92%	92%	92%	92%	91%	90%	90%	91%
	Working Days	91%	90%	89%	89%	89%	89%	91%	93%	94%	95%	96%	96%	96%	96%	95%	95%	94%	94%	93%	93%	93%	92%	91%	90%	93%
201810	All Days	90%	89%	88%	88%	87%	88%	90%	93%	94%	96%	96%	96%	96%	96%	96%	95%	94%	94%	95%	95%	95%	94%	92%	91%	93%
	Working Days	91%	89%	89%	88%	88%	89%	91%	95%	96%	97%	98%	98%	98%	98%	97%	97%	96%	96%	97%	97%	96%	95%	93%	91%	94%
201811	All Days	92%	91%	91%	90%	90%	91%	92%	95%	97%	98%	98%	98%	98%	98%	98%	97%	97%	97%	97%	97%	97%	96%	94%	93%	95%
	Working Days	93%	92%	91%	91%	91%	92%	94%	97%	98%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	98%	98%	97%	95%	94%	96%
201812	All Days	91%	90%	90%	89%	89%	90%	91%	94%	96%	97%	97%	97%	97%	97%	97%	96%	96%	97%	97%	96%	96%	96%	94%	93%	94%
	Working Days	91%	90%	89%	89%	89%	90%	92%	96%	97%	97%	98%	98%	98%	98%	98%	97%	97%	98%	98%	97%	97%	96%	94%	93%	95%

**Table.12 Mean Hourly Utilization Factor of Daily Sub-Products for every eligible supplier/ trader for the period: 01/12/2016 – 31/12/2018**

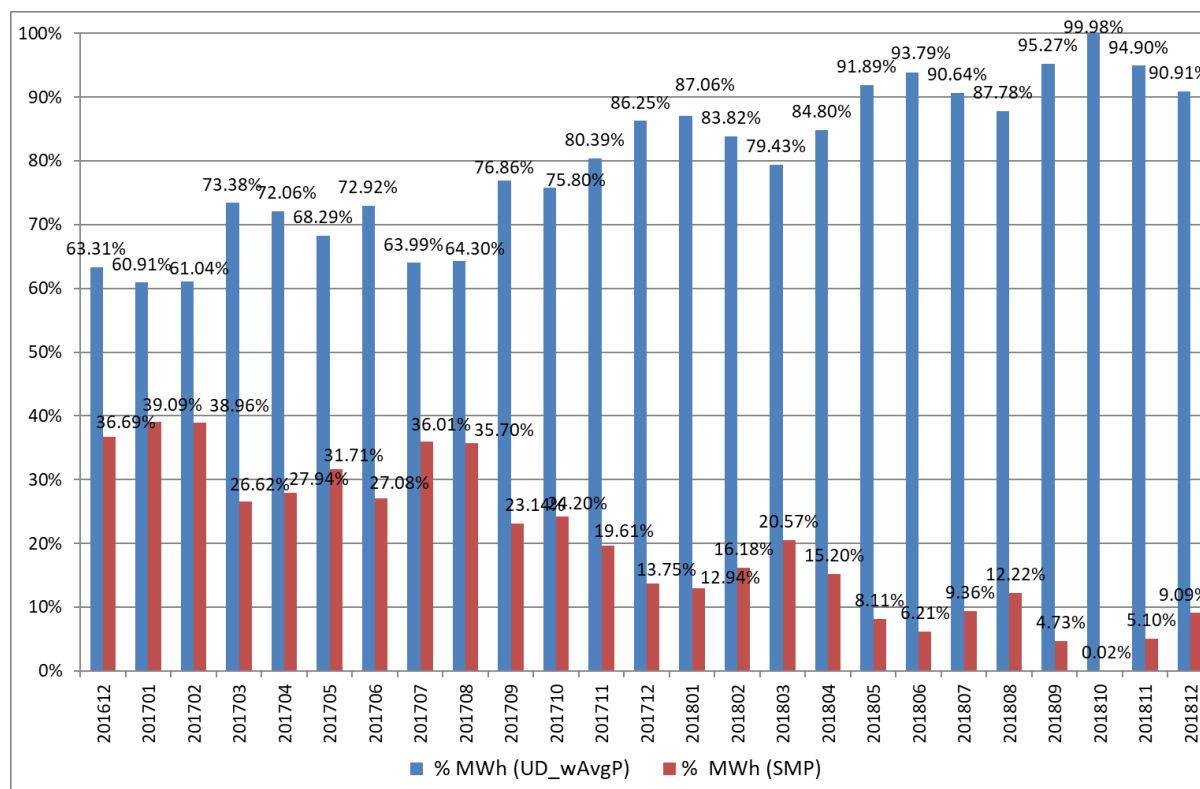
Eligible Supplier/ Trader	days	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg. UFs
Elig.Supplier_01	All Days	98%	96%	95%	94%	94%	95%	96%	97%	98%	98%	99%	99%	99%	99%	98%	98%	98%	98%	98%	99%	99%	99%	98%	98%	98%
Elig.Supplier_01	Working Days	98%	97%	96%	96%	96%	96%	97%	99%	99%	100%	100%	100%	100%	100%	100%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
Elig.Supplier_02	All Days	97%	95%	94%	93%	93%	93%	95%	96%	97%	97%	97%	97%	97%	97%	97%	97%	97%	97%	97%	97%	97%	97%	97%	96%	96%
Elig.Supplier_02	Working Days	98%	97%	96%	95%	95%	96%	98%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	99%	100%	100%	100%	99%	99%	99%
Elig.Supplier_03	All Days	94%	93%	92%	92%	92%	92%	93%	94%	95%	96%	97%	97%	97%	97%	96%	96%	95%	95%	96%	96%	97%	96%	95%	94%	95%
Elig.Supplier_03	Working Days	96%	94%	94%	94%	94%	94%	95%	96%	97%	98%	100%	100%	100%	100%	99%	98%	98%	97%	98%	99%	99%	98%	98%	96%	97%
Elig.Supplier_04	All Days	96%	94%	94%	94%	93%	93%	94%	96%	97%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	99%	99%	98%	97%	97%
Elig.Supplier_04	Working Days	97%	95%	95%	95%	94%	94%	96%	98%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	98%	98%
Elig.Supplier_05	All Days	95%	94%	93%	93%	93%	93%	94%	95%	96%	97%	97%	97%	97%	97%	97%	96%	96%	97%	97%	97%	97%	97%	96%	95%	96%
Elig.Supplier_05	Working Days	95%	94%	94%	94%	93%	94%	95%	97%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	97%	97%	96%	97%
Elig.Supplier_06	All Days	98%	97%	96%	96%	96%	96%	97%	98%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	98%	98%
Elig.Supplier_06	Working Days	98%	98%	97%	97%	97%	97%	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	99%
Elig.Supplier_09	All Days	96%	94%	93%	93%	93%	93%	95%	97%	98%	98%	99%	99%	99%	99%	98%	98%	98%	98%	98%	98%	98%	98%	97%	97%	97%
Elig.Supplier_09	Working Days	96%	95%	94%	93%	93%	94%	96%	98%	99%	99%	100%	100%	100%	100%	99%	99%	99%	99%	99%	99%	99%	99%	98%	97%	98%
Elig.Supplier_07	All Days	93%	87%	86%	86%	87%	87%	86%	87%	91%	92%	92%	92%	91%	91%	92%	92%	92%	91%	91%	93%	94%	94%	92%	90%	90%
Elig.Supplier_07	Working Days	94%	91%	91%	91%	91%	91%	91%	92%	95%	98%	98%	96%	96%	95%	96%	96%	97%	96%	96%	97%	97%	97%	96%	94%	95%
Elig.Supplier_08	All Days	83%	81%	80%	80%	80%	80%	81%	82%	85%	87%	89%	89%	90%	90%	88%	87%	87%	87%	88%	88%	89%	89%	88%	85%	86%
Elig.Supplier_08	Working Days	84%	82%	81%	82%	81%	81%	83%	86%	90%	92%	93%	93%	94%	93%	93%	92%	91%	91%	92%	93%	93%	93%	91%	89%	89%
Elig.Supplier_10	All Days	73%	70%	69%	67%	66%	66%	70%	76%	79%	81%	83%	84%	84%	84%	83%	82%	82%	82%	82%	82%	82%	81%	78%	76%	78%
Elig.Supplier_10	Working Days	74%	70%	69%	68%	67%	67%	73%	80%	84%	86%	88%	88%	89%	89%	89%	88%	87%	87%	86%	86%	86%	85%	81%	79%	81%
Elig.Supplier_11	All Days	99%	100%	100%	100%	100%	100%	100%	100%	99%	100%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	100%	100%	100%	99%
Elig.Supplier_11	Working Days	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Elig.Supplier_12	All Days	92%	85%	81%	79%	77%	78%	83%	90%	95%	98%	99%	100%	100%	100%	99%	99%	98%	99%	99%	100%	100%	100%	99%	98%	94%
Elig.Supplier_12	Working Days	92%	84%	80%	78%	77%	78%	84%	92%	97%	99%	99%	100%	100%	100%	99%	99%	99%	99%	99%	100%	100%	100%	100%	98%	94%
Elig.Trader_01	All Days	98%	95%	94%	94%	94%	94%	94%	96%	97%	97%	97%	97%	96%	96%	96%	96%	97%	97%	97%	97%	97%	97%	96%	96%	96%
Elig.Trader_01	Working Days	97%	95%	95%	94%	94%	94%	95%	96%	98%	98%	98%	98%	97%	97%	98%	98%	97%	97%	97%	97%	97%	97%	97%	97%	97%
Elig.Trader_02	All Days	85%	79%	79%	79%	79%	79%	80%	82%	82%	82%	82%	82%	82%	82%	82%	82%	82%	82%	82%	82%	81%	81%	81%	81%	81%
Elig.Trader_02	Working Days	89%	85%	85%	85%	85%	86%	86%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	88%	88%	87%	88%	88%
Elig.Supplier_14	All Days	80%	76%	75%	73%	72%	73%	76%	80%	83%	87%	89%	90%	91%	90%	89%	87%	86%	86%	87%	88%	89%	89%	87%	84%	84%
Elig.Supplier_14	Working Days	78%	75%	73%	72%	72%	72%	77%	82%	86%	89%	91%	91%	92%	92%	91%	89%	88%	88%	88%	89%	90%	90%	87%	84%	84%
Elig.Supplier_16	All Days	95%	95%	95%	95%	95%	95%	96%	96%	97%	97%	97%	97%	97%	97%	97%	97%	97%	97%	97%	97%	96%	96%	96%	96%	96%
Elig.Supplier_16	Working Days	96%	96%	96%	95%	96%	96%	96%	97%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	97%	97%	97%	97%	97%	97%
Elig.Supplier_15	All Days	86%	85%	85%	85%	85%	85%	86%	89%	90%	91%	92%	92%	92%	92%	91%	90%	90%	90%	90%	89%	89%	87%	87%	89%	89%
Elig.Supplier_15	Working Days	90%	89%	89%	89%	89%	89%	92%	94%	95%	96%	97%	98%	98%	97%	96%	95%	95%	95%	95%	94%	94%	93%	92%	94%	94%
Elig.Trader_03	All Days	94%	92%	92%	92%	92%	92%	92%	92%	92%	93%	93%	92%	92%	92%	92%	92%	93%	93%	93%	93%	93%	92%	92%	92%	92%
Elig.Trader_03	Working Days	93%	92%	92%	92%	92%	92%	92%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	92%	92%	92%	93%
Elig.Supplier_17	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_17	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_13	All Days	77%	76%	74%	74%	73%	77%	80%	85%	86%	88%	88%	88%	88%	88%	87%	86%	85%	85%	85%	85%	85%	84%	81%	79%	83%
Elig.Supplier_13	Working Days	90%	88%	87%	87%	87%	88%	92%	95%	96%	96%	96%	96%	96%	96%	96%	95%	95%	95%	95%	95%	95%	92%	91%	93%	93%
Elig.Supplier_18	All Days	90%	88%	88%	87%	89%	90%	92%	93%	94%	96%	96%	97%	97%	97%	96%	96%	96%	95%	95%	95%	95%	95%	93%	91%	93%
Elig.Supplier_18	Working Days	91%	90%	90%	90%	91%	92%	94%	96%	97%	98%	98%	99%	99%	99%	99%	98%	98%	98%	97%	97%	97%	96%	95%	93%	95%
Elig.Supplier_19	All Days	61%	63%	63%	63%	63%	64%	75%	88%	93%	93%	92%	92%	92%	92%	86%	82%	83%	82%	79%	74%	72%	68%	45%	45%	76%
Elig.Supplier_19	Working Days	62%	64%	64%	63%	63%	64%	84%	99%	100%	100%	100%	100%	100%	100%	99%	99%	95%	95%	93%	90%	82%	72%	44%	44%	81%
Elig.Supplier_21	All Days	97%	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_21	Working Days	95%	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_04	All Days	0%	3%	6%	6%	6%	6%	3%	6%	61%	77%	84%	84%	84%	81%	81%	81%	81%	81%	81%	87%	87%	87%	74%	55%	
Elig.Trader_04	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%
Elig.Supplier_20	All Days	62%	60%	59%	58%	57%	58%	58%	75%	80%	90%	92%	93%	92%	94%	91%	90%	87%	88%	91%	92%	91%	85%	77%	70%	79%
Elig.Supplier_20	Working Days	61%	61%	60%	59%	58%	60%	59%	79%	85%	94%	96%	96%	96%	96%	95%	94%	91%	92%	94%	94%	93%	87%	77%	70%	81%



### Load Declaration Analysis in DAS Supplementary Clearing

Figure.15 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 – December 2018 (for all Eligible Suppliers/ Traders). Table.13 presents the results for each Eligible Supplier/ Trader and Delivery Month.

**Figure.16 Percentage of Load Declarations cleared with SMP and Weighted Average Price of Usage declarations in DAS Supplementary Clearing (all Holders)**



**Table.13 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		Year 2017		First Quarter 2018		Second Quarter 2018		Third Quarter 2018		10 2018		11 2018		12 2018		201612-201812	
	% 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)	% MWh (UD_wAvgP)	% MWh (SMP)	% MWh (UD_wAvgP)	% MWh (SMP)	% MWh (UD_wAvgP)	% MWh (SMP)
Elig.Supplier_01	60.501%	39.499%	78.288%	21.712%	88.937%	11.063%	95.550%	4.450%	97.921%	2.079%	99.606%	0.394%	99.262%	0.738%	98.719%	1.281%	87.632%	12.368%
Elig.Supplier_02	63.988%	36.012%	78.719%	21.281%	92.013%	7.987%	92.279%	7.721%	96.420%	3.580%	98.375%	1.625%	96.171%	3.829%	96.597%	3.403%	87.170%	12.830%
Elig.Supplier_03	61.872%	38.128%	74.135%	25.865%	87.205%	12.795%	92.434%	7.566%	91.055%	8.945%	94.491%	5.509%	92.955%	7.045%	85.173%	14.827%	81.836%	18.164%
Elig.Supplier_04	81.887%	18.113%	92.249%	7.751%	97.161%	2.839%	98.082%	1.918%	98.597%	1.403%	99.863%	0.137%	99.463%	0.537%	98.199%	1.801%	95.886%	4.114%
Elig.Supplier_05	79.741%	20.259%	90.158%	9.842%	94.072%	5.928%	97.715%	2.285%	98.775%	1.225%	99.650%	0.350%	99.357%	0.643%	98.501%	1.499%	94.157%	5.843%
Elig.Supplier_06	59.571%	40.429%	71.107%	28.893%	87.005%	12.995%	87.773%	12.227%	73.214%	26.786%	90.153%	9.847%	90.450%	9.550%	89.129%	10.871%	78.111%	21.889%
Elig.Supplier_07	34.584%	65.416%	66.925%	33.075%	97.193%	2.807%	98.437%	1.563%	96.248%	3.752%	98.932%	1.068%	99.591%	0.409%	99.337%	0.663%	81.241%	18.759%
Elig.Supplier_08			13.930%	86.070%	30.206%	69.794%	61.787%	38.213%	69.243%	30.757%	84.089%	15.911%	91.225%	8.775%	73.252%	26.748%	39.358%	60.642%
Elig.Supplier_09			95.262%	4.738%	94.523%	5.477%	90.724%	9.276%	94.562%	5.438%	99.388%	0.612%	98.212%	1.788%	97.736%	2.264%	95.332%	4.668%
Elig.Supplier_10	95.185%	4.815%	83.059%	16.941%	79.495%	20.505%	83.938%	16.062%	82.275%	17.725%	85.307%	14.693%	89.164%	10.836%	91.405%	8.595%	83.627%	16.373%
Elig.Supplier_11			54.282%	45.718%	95.038%	4.962%	98.679%	1.321%	93.412%	6.588%	97.443%	2.557%	92.819%	7.181%	78.510%	21.490%	88.969%	11.031%
Elig.Trader_01			100.000%	0.000%	22.059%	77.941%	49.778%	50.222%	66.521%	33.479%	81.825%	18.175%	71.699%	28.301%	49.594%	50.406%	54.440%	45.560%
Elig.Supplier_12			70.662%	29.338%	72.636%	27.364%	74.512%	25.488%	76.940%	23.060%	72.595%	27.405%	70.158%	29.842%	71.644%	28.356%	71.702%	28.298%
Elig.Trader_02			100.000%	0.000%	95.003%	4.997%	98.482%	1.518%	99.343%	0.657%	82.390%	17.610%	83.969%	16.031%	88.138%	11.862%	93.034%	6.966%
Elig.Supplier_13			85.949%	14.051%	74.824%	25.176%	79.776%	20.224%	91.863%	8.137%	96.616%	3.384%	93.612%	6.388%	86.519%	13.481%	86.194%	13.806%
Elig.Supplier_14			69.568%	30.432%	84.273%	15.727%	98.725%	1.275%	99.414%	0.586%	99.896%	0.104%	99.970%	0.030%	99.970%	0.030%	96.770%	3.230%
Elig.Supplier_15			68.890%	31.110%	97.264%	2.736%	94.291%	5.709%	97.697%	2.303%	95.977%	4.023%	92.559%	7.441%	93.101%	6.899%		
Elig.Supplier_16	76.879%	23.121%	98.699%	1.301%	97.201%	2.799%	81.567%	18.433%	80.615%	19.385%	90.559%	9.441%	88.583%	11.417%	89.397%	10.603%	91.125%	8.875%
Elig.Trader_03			94.302%	5.698%	98.458%	1.542%	99.990%	0.010%	98.190%	1.810%	100.000%	0.000%	100.000%	0.000%	77.230%	22.770%	94.865%	5.135%
Elig.Supplier_17	62.483%	37.517%	72.604%	27.396%	91.725%	8.275%	94.965%	5.035%	96.611%	3.389%	96.367%	3.633%	96.367%	3.633%	96.367%	3.633%	85.256%	14.744%
Elig.Supplier_18			81.136%	18.864%	92.351%	7.649%	75.974%	24.026%	54.809%	45.191%	56.732%	43.268%	60.323%	39.677%	83.239%	16.761%	73.716%	26.284%
Elig.Supplier_19	60.061%	39.939%	46.256%	53.744%	56.374%	43.626%	40.145%	59.855%	40.702%	59.298%	39.657%	60.343%	40.434%	59.566%	48.736%	51.264%	45.538%	54.462%
Elig.Supplier_20			100.000%	0.000%													91.672%	8.328%
Elig.Supplier_21											99.276%	0.724%	99.061%	0.939%	95.322%	4.678%	97.820%	2.180%
Elig.Trader_04			3.151%	96.849%													3.151%	96.849%
Total	63.315%	36.685%	73.215%	26.785%	83.232%	16.768%	90.452%	9.548%	91.186%	8.814%	99.984%	0.016%	94.900%	5.100%	90.908%	9.092%	82.893%	17.107%

## 8. Consumption Market Shares Evolution

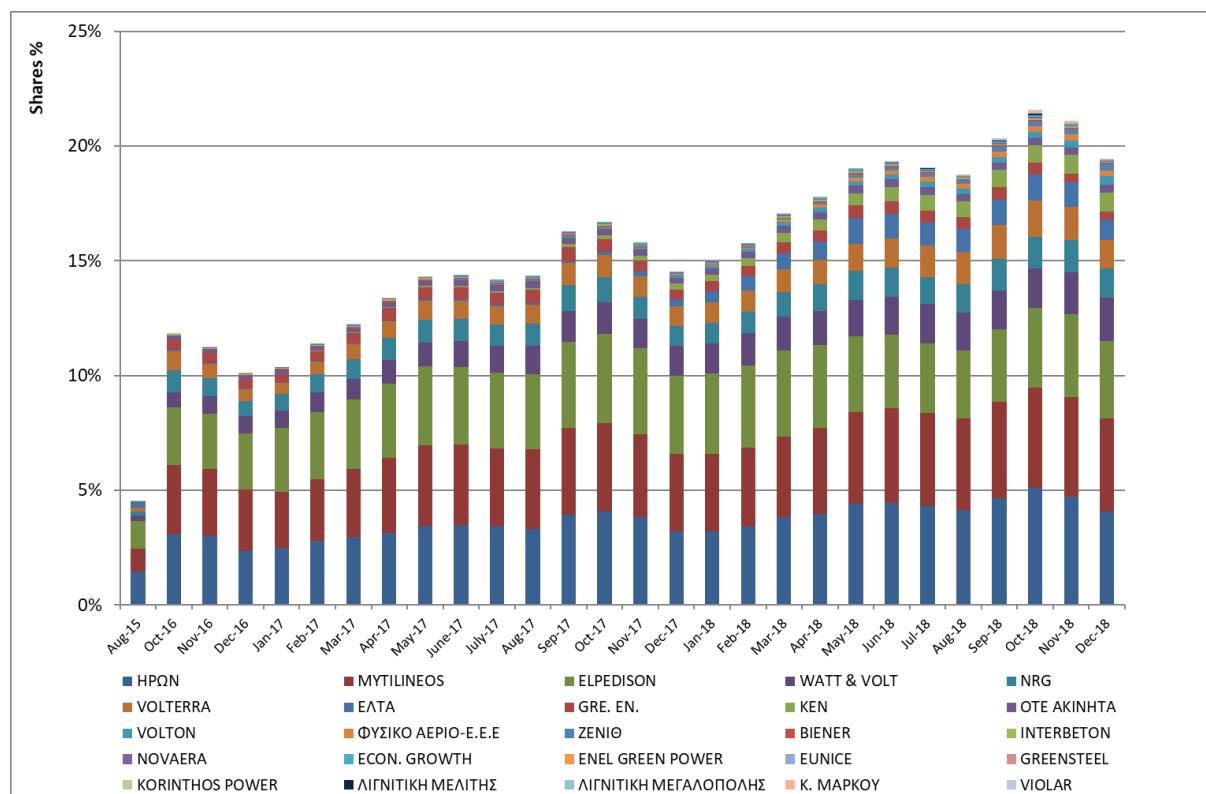
According to the provisions of Art. 7 and Art. 52 of the PECFEPAS, HEnEx S.A. is calculating the Consumption Market Shares of the Eligible Suppliers and reports the decrease of the PPC market share in the Wholesale and Retail Market. The DAS Consumption Market Shares reflects the volume of the Load Declarations 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.

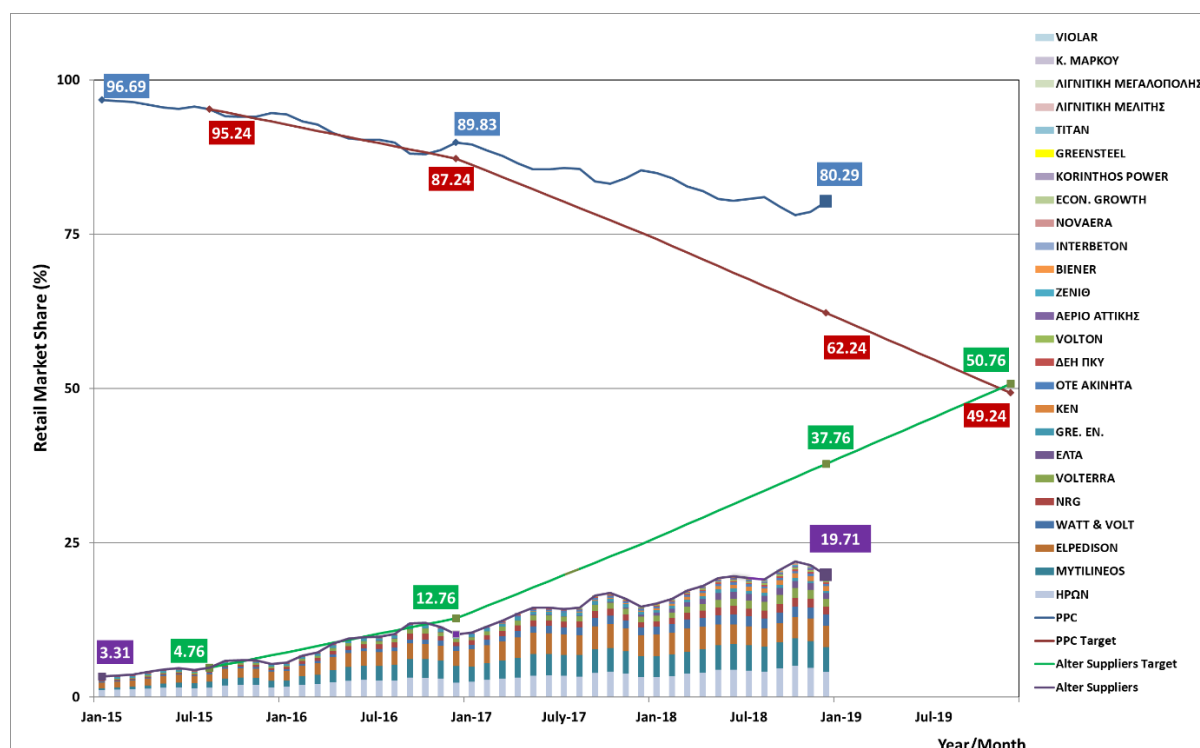
### Market Shares in Day-Ahead Scheduling (DAS)

The evolution of the DAS Consumption Market Shares for the Eligible Suppliers and PPC illustrated in the following figures concerns the period October 2016 – December 2018 (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.17 Percentage (%) of the total DAS Consumption for each Eligible Supplier for the period October 2016 – December 2018 (including (%) for August 2015).**



**Figure.18 Percentage (%) of the total Consumption for PPC for the period October 2016 – December 2018 (including the reference (%) for August 2015 and projection according to targets).**



The following tables summarise the evolution of market shares per voltage level within 2018. Monthly Market shares for years 2016 and 2017 are presented in the Monthly Reports of December 2016 and 2017 respectively.

**Table.14a Suppliers Market Shares (%) per voltage level (HV-MV-LV) in the Interconnected System based on their Load Declaration in DAS for January 2018**

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	2018	1	496,837	810,451	2,655,098	3,962,386	96.57%	70.93%	88.15%	84.86%
ΔΕΗ ΠΚΥ	2018	1			6,537	6,537			0.22%	0.14%
ELPEDISON	2018	1	16,952	67,480	77,950	162,382	3.29%	5.91%	2.59%	3.48%
MYTILINEOS	2018	1	719	72,322	85,863	158,904	0.14%	6.33%	2.85%	3.40%
HPQN	2018	1		82,502	66,684	149,186		7.22%	2.21%	3.20%
WATT & VOLT	2018	1		10,172	52,199	62,370		0.89%	1.73%	1.34%
NRG	2018	1		25,886	15,749	41,635		2.27%	0.52%	0.89%
VOLTERRA	2018	1		40,766		40,766		3.57%		0.87%
EATA	2018	1		15,634	7,453	23,087		1.37%	0.25%	0.49%
GRE.EN	2018	1		6,166	14,080	20,246		0.54%	0.47%	0.43%
KEN	2018	1		2,762	11,187	13,949		0.24%	0.37%	0.30%
OTE ΑΚΙΝΗΤΑ	2018	1			12,826	12,826			0.43%	0.27%
VOLTON	2018	1		404	5,669	6,074		0.04%	0.19%	0.13%
NOVAERA	2018	1		2,211		2,211		0.19%		0.05%
INTERBETON	2018	1		1,838	83	1,921		0.16%	0.00%	0.04%
VIENER	2018	1		1,493		1,493		0.13%		0.03%
ECON.GROWTH	2018	1		1,012	468	1,480		0.09%	0.02%	0.03%
ΕΠΑ ΑΤΤΙΚΗΣ	2018	1		917		917		0.08%		0.02%
ZENIO	2018	1		588	128	716		0.05%	0.00%	0.02%
Totals :			514,508	1,142,605	3,011,974	4,669,087	100.00%	100.00%	100.00%	100.00%

**Table.14b Suppliers Market Shares (%) per voltage level (HV-MV-LV) in the Interconnected System based on their Load Declaration in DAS for February - April 2018**

Supplier	Year	Month	Monthly Quantities				Monthly Share			
			HV (MWh)	MV (MWh)	LV (MWh)	DAS-Consumption (MWh)	HV-Share (%)	MV-Share (%)	LV-Share (%)	DAS-Consumption (%)
PPC	2018	2	478,223	699,761	2,292,491	3,470,474	96.86%	68.74%	87.63%	84.08%
PPC_USS	2018	2			6,542	6,542			0.25%	0.16%
ELPEDISON	2018	2	14,702	62,431	70,530	147,663	2.98%	6.13%	2.70%	3.58%
MYTILINEOS	2018	2	810	68,298	73,519	142,627	0.16%	6.71%	2.81%	3.46%
HERON	2018	2		77,121	63,167	140,288		7.58%	2.41%	3.40%
WATT_AND_VOLT	2018	2		10,930	46,825	57,755		1.07%	1.79%	1.40%
NRG_TRADING_HOUS	2018	2		24,708	14,583	39,290		2.43%	0.56%	0.95%
VOLTERRA	2018	2		38,608		38,608		3.79%		0.94%
ELTA	2018	2		17,847	6,948	24,795		1.75%	0.27%	0.60%
GREENENV	2018	2		5,825	12,721	18,546		0.57%	0.49%	0.45%
KEN	2018	2		2,781	10,980	13,761		0.27%	0.42%	0.33%
OTEESTATE	2018	2			11,865	11,865			0.45%	0.29%
VOLTON	2018	2		349	5,215	5,564		0.03%	0.20%	0.13%
NOVAERA_ENERGY	2018	2		2,143		2,143		0.21%		0.05%
ATTIKI_GSC	2018	2		1,962		1,962		0.19%		0.05%
INTERBETON	2018	2		1,749	75	1,823		0.17%	0.00%	0.04%
ZENIO	2018	2		1,192	236	1,427		0.12%	0.01%	0.03%
VIENER	2018	2		1,354		1,354		0.13%		0.03%
GROWTH	2018	2		898	419	1,317		0.09%	0.02%	0.03%
Totals :			493,735	1,017,956	2,616,115	4,127,807	100.00%	100.00%	100.00%	100.00%
PPC	2018	3	543,109	673,398	2,206,130	3,422,636	96.75%	65.18%	86.79%	82.75%
PPC_USS	2018	3			9,187	9,187			0.36%	0.22%
HERON	2018	3		88,793	69,110	157,902		8.59%	2.72%	3.82%
ELPEDISON	2018	3	17,545	67,793	69,655	154,992	3.13%	6.56%	2.74%	3.75%
MYTILINEOS	2018	3	656	76,788	68,592	146,035	0.12%	7.43%	2.70%	3.53%
WATT_AND_VOLT	2018	3		12,396	48,022	60,418		1.20%	1.89%	1.46%
NRG_TRADING_HOUS	2018	3		29,042	15,624	44,667		2.81%	0.61%	1.08%
VOLTERRA	2018	3		41,800		41,800		4.05%		1.01%
ELTA	2018	3		20,293	7,712	28,005		1.96%	0.30%	0.68%
GREENENV	2018	3		6,249	13,716	19,965		0.60%	0.54%	0.48%
KEN	2018	3		3,364	13,684	17,047		0.33%	0.54%	0.41%
OTEESTATE	2018	3			12,351	12,351			0.49%	0.30%
VOLTON	2018	3		377	6,733	7,111		0.04%	0.26%	0.17%
ATTIKI_GSC	2018	3		4,408	135	4,543		0.43%	0.01%	0.11%
NOVAERA_ENERGY	2018	3		2,358		2,358		0.23%		0.06%
INTERBETON	2018	3		1,994	83	2,078		0.19%	0.00%	0.05%
ZENIO	2018	3		1,388	580	1,968		0.13%	0.02%	0.05%
VIENER	2018	3		1,688		1,688		0.16%		0.04%
GROWTH	2018	3		976	466	1,442		0.09%	0.02%	0.03%
EUNICE_TRADING	2018	3			21	21			0.00%	0.00%
KORINTHOS_POWER	2018	3	20			20	0.00%			0.00%
Totals :			561,330	1,033,105	2,541,800	4,136,234	100.00%	100.00%	100.00%	100.00%
PPC	2018	4	487,894	582,670	1,908,974	2,979,538	96.99%	63.65%	86.14%	81.98%
PPC_USS	2018	4			9,808	9,808			0.44%	0.27%
HERON	2018	4		79,661	65,109	144,770		8.70%	2.94%	3.98%
MYTILINEOS	2018	4	305	74,156	60,989	135,450	0.06%	8.10%	2.75%	3.73%
ELPEDISON	2018	4	14,802	59,331	58,057	132,189	2.94%	6.48%	2.62%	3.64%
WATT_AND_VOLT	2018	4		10,835	42,593	53,428		1.18%	1.92%	1.47%
NRG_TRADING_HOUS	2018	4		27,571	14,793	42,364		3.01%	0.67%	1.17%
VOLTERRA	2018	4		38,662		38,662		4.22%		1.06%
ELTA	2018	4		19,229	9,259	28,488		2.10%	0.42%	0.78%
GREENENV	2018	4		5,554	12,619	18,172		0.61%	0.57%	0.50%
KEN	2018	4		2,966	14,272	17,237		0.32%	0.64%	0.47%
OTEESTATE	2018	4			11,491	11,491			0.52%	0.32%
VOLTON	2018	4		314	6,312	6,625		0.03%	0.28%	0.18%
ATTIKI_GSC	2018	4		4,900	533	5,433		0.54%	0.02%	0.15%
ZENIO	2018	4		2,093	862	2,955		0.23%	0.04%	0.08%
NOVAERA_ENERGY	2018	4		2,223		2,223		0.24%		0.06%
VIENER	2018	4		2,177		2,177		0.24%		0.06%
INTERBETON	2018	4		1,854	87	1,941		0.20%	0.00%	0.05%
GROWTH	2018	4		1,210	404	1,613		0.13%	0.02%	0.04%
KORINTHOS_POWER	2018	4	43			43	0.01%			0.00%
EUNICE_TRADING	2018	4			37	37			0.00%	0.00%
Totals :			503,044	915,406	2,216,196	3,634,646	100.00%	100.00%	100.00%	100.00%

**Table.14c Suppliers Market Shares (%) per voltage level (HV-MV-LV) in the Interconnected System based on their Load Declaration in DAS for May- July 2018**

Supplier	Year	Month	Monthly Quantities				Monthly Share			
			HV (MWh)	MV (MWh)	LV (MWh)	DAS-Consumption (MWh)	HV-Share (%)	MV-Share (%)	LV-Share (%)	DAS-Consumption (%)
PPC	2018	5	523,809	606,719	1,987,658	3,118,186	98.35%	60.38%	85.46%	80.72%
PPC_USS	2018	5			10,752	10,752			0.46%	0.28%
HERON	2018	5		95,707	74,328	170,034		9.52%	3.20%	4.40%
MYTILINEOS	2018	5		90,290	64,816	155,106		8.99%	2.79%	4.01%
ELPEDISON	2018	5	8,774	63,589	55,011	127,374	1.65%	6.33%	2.37%	3.30%
WATT_AND_VOLT	2018	5		13,064	47,363	60,427		1.30%	2.04%	1.56%
NRG_TRADING_HOUS	2018	5		32,243	17,051	49,294		3.21%	0.73%	1.28%
VOLTERRA	2018	5		45,931		45,931		4.57%		1.19%
ELTA	2018	5		29,107	14,377	43,484		2.90%	0.62%	1.13%
GREENENV	2018	5		6,322	14,515	20,837		0.63%	0.62%	0.54%
KEN	2018	5		3,396	17,088	20,484		0.34%	0.73%	0.53%
OTEESTATE	2018	5		77	13,125	13,203		0.01%	0.56%	0.34%
VOLTON	2018	5		387	6,824	7,211		0.04%	0.29%	0.19%
ATTIKI_GSC	2018	5		5,234	947	6,180		0.52%	0.04%	0.16%
ZENIO	2018	5		3,713	1,328	5,041		0.37%	0.06%	0.13%
VIENER	2018	5		3,060		3,060		0.30%		0.08%
INTERBETON	2018	5		2,286	97	2,382		0.23%	0.00%	0.06%
NOVAERA_ENERGY	2018	5		2,145		2,145		0.21%		0.06%
GROWTH	2018	5		1,395	518	1,913		0.14%	0.02%	0.05%
EGPH_SUPPLY	2018	5		133		133		0.01%		0.00%
EUNICE_TRADING	2018	5		0	21	21		0.00%	0.00%	0.00%
VIOLAR	2018	5		4		4		0.00%		0.00%
KVMARKOUSA	2018	5		0		0		0.00%		0.00%
Totals :			532,583	1,004,798	2,325,818	3,863,199	100.00%	100.00%	100.00%	100.00%
PPC	2018	6	524,446	675,007	2,211,414	3,410,867	98.43%	61.04%	84.96%	80.42%
PPC_USS	2018	6			11,097	11,097			0.43%	0.26%
HERON	2018	6		102,180	86,548	188,728		9.24%	3.33%	4.45%
MYTILINEOS	2018	6	137	100,277	75,196	175,610	0.03%	9.07%	2.89%	4.14%
ELPEDISON	2018	6	8,240	65,741	60,708	134,689	1.55%	5.95%	2.33%	3.18%
WATT_AND_VOLT	2018	6		14,569	55,710	70,279		1.32%	2.14%	1.66%
NRG_TRADING_HOUS	2018	6		34,656	20,119	54,775		3.13%	0.77%	1.29%
VOLTERRA	2018	6		53,180		53,180		4.81%		1.25%
ELTA	2018	6		29,363	16,488	45,851		2.66%	0.63%	1.08%
KEN	2018	6		3,846	21,717	25,563		0.35%	0.83%	0.60%
GREENENV	2018	6		7,178	16,531	23,709		0.65%	0.64%	0.56%
OTEESTATE	2018	6		287	13,792	14,078		0.03%	0.53%	0.33%
VOLTON	2018	6		386	8,786	9,172		0.03%	0.34%	0.22%
ATTIKI_GSC	2018	6		5,503	2,229	7,732		0.50%	0.09%	0.18%
ZENIO	2018	6		3,853	1,822	5,675		0.35%	0.07%	0.13%
VIENER	2018	6		3,387		3,387		0.31%		0.08%
NOVAERA_ENERGY	2018	6		2,343		2,343		0.21%		0.06%
INTERBETON	2018	6		2,179	80	2,259		0.20%	0.00%	0.05%
GROWTH	2018	6		1,594	557	2,151		0.14%	0.02%	0.05%
EGPH_SUPPLY	2018	6		214		214		0.02%		0.01%
VIOLAR	2018	6		12		12		0.00%		0.00%
EUNICE_TRADING	2018	6		2	9	10		0.00%	0.00%	0.00%
KVMARKOUSA	2018	6		3		3		0.00%		0.00%
Totals :			532,823	1,105,752	2,602,795	4,241,371	100.00%	100.00%	100.00%	100.00%
PPC	2018	7	548,870	809,575	2,652,274	4,010,719	98.12%	64.19%	84.27%	80.73%
PPC_USS	2018	7			12,101	12,101			0.38%	0.24%
HERON	2018	7		112,761	101,050	213,812		8.94%	3.21%	4.30%
MYTILINEOS	2018	7	764	111,478	90,163	202,405	0.14%	8.84%	2.86%	4.07%
ELPEDISON	2018	7	9,392	71,974	69,533	150,899	1.68%	5.71%	2.21%	3.04%
WATT_AND_VOLT	2018	7		15,643	68,392	84,034		1.24%	2.17%	1.69%
VOLTERRA	2018	7		40,222	28,329	68,551		3.19%	0.90%	1.38%
NRG_TRADING_HOUS	2018	7		34,991	23,752	58,743		2.77%	0.75%	1.18%
ELTA	2018	7		31,834	17,976	49,810		2.52%	0.57%	1.00%
KEN	2018	7		4,412	29,776	34,188		0.35%	0.95%	0.69%
GREENENV	2018	7		7,573	18,051	25,624		0.60%	0.57%	0.52%
OTEESTATE	2018	7		309	17,252	17,561		0.02%	0.55%	0.35%
VOLTON	2018	7		479	11,223	11,702		0.04%	0.36%	0.24%
ATTIKI_GSC	2018	7		5,155	3,855	9,010		0.41%	0.12%	0.18%
ZENIO	2018	7		4,496	2,933	7,429		0.36%	0.09%	0.15%
VIENER	2018	7		3,752		3,752		0.30%		0.08%
GROWTH	2018	7		1,785	721	2,507		0.14%	0.02%	0.05%
NOVAERA_ENERGY	2018	7		2,316		2,316		0.18%		0.05%
INTERBETON	2018	7		2,196	83	2,279		0.17%	0.00%	0.05%
LIG_MELITIS	2018	7	360			360	0.06%			0.01%
EGPH_SUPPLY	2018	7		198		198		0.02%		0.00%
EUNICE_TRADING	2018	7		57	13	70		0.00%	0.00%	0.00%
VIOLAR	2018	7		14		14		0.00%		0.00%
KVMARKOUSA	2018	7		9		9		0.00%		0.00%
Totals :			559,386	1,261,149	3,147,465	4,967,999	100.00%	99.99%	100.00%	100.00%

**Table.14c Suppliers Market Shares (%) per voltage level (HV-MV-LV) in the Interconnected System based on their Load Declaration in DAS for August – September 2018**

Supplier	Year	Month	Monthly Quantities				Monthly Share			
			HV (MWh)	MV (MWh)	LV (MWh)	DAS-Consumption (MWh)	HV-Share (%)	MV-Share (%)	LV-Share (%)	DAS-Consumption (%)
PPC	2018	8	499,127	762,398	2,497,679	3,759,205	97.99%	64.85%	84.47%	80.99%
PPC_USS	2018	8			13,515	13,515			0.46%	0.29%
HERON	2018	8		101,216	90,675	191,891		8.61%	3.07%	4.13%
MYTILINEOS	2018	8	732	103,773	81,565	186,070	0.14%	8.83%	2.76%	4.01%
ELPEDISON	2018	8	9,340	64,181	63,632	137,152	1.83%	5.46%	2.15%	2.95%
WATT_AND_VOLT	2018	8		13,645	62,756	76,401		1.16%	2.12%	1.65%
VOLTERRA	2018	8		38,814	27,456	66,270		3.30%	0.93%	1.43%
NRG_TRADING_HOUS	2018	8		34,988	21,939	56,927		2.98%	0.74%	1.23%
ELTA	2018	8		25,955	19,476	45,431		2.21%	0.66%	0.98%
KEN	2018	8		3,869	28,315	32,184		0.33%	0.96%	0.69%
GREENENV	2018	8		8,285	16,425	24,711		0.70%	0.56%	0.53%
OTEESTATE	2018	8		317	14,031	14,348		0.03%	0.47%	0.31%
VOLTON	2018	8		272	11,216	11,488		0.02%	0.38%	0.25%
ATTIKI_GSC	2018	8		5,177	4,291	9,468		0.44%	0.15%	0.20%
ZENIO	2018	8		3,154	3,013	6,166		0.27%	0.10%	0.13%
VIENER	2018	8		3,678		3,678		0.31%		0.08%
GROWTH	2018	8		1,968	765	2,734		0.17%	0.03%	0.06%
NOVAERA_ENERGY	2018	8		1,839		1,839		0.16%		0.04%
INTERBETON	2018	8		1,730	83	1,813		0.15%	0.00%	0.04%
EUNICE_TRADING	2018	8		107	48	155		0.01%	0.00%	0.00%
EGPH_SUPPLY	2018	8		150		150		0.01%		0.00%
LIG_MELITIS	2018	8	144			144	0.03%			0.00%
VIOLAR	2018	8		60		60		0.01%		0.00%
KVMARKOUSA	2018	8		33		33		0.00%		0.00%
Totals :			509,343	1,175,609	2,956,879	4,641,831	100.00%	100.00%	100.00%	100.00%
PPC	2018	9	512,385	643,495	2,108,198	3,264,079	97.81%	60.52%	83.53%	79.40%
PPC_USS	2018	9			11,682	11,682			0.46%	0.28%
HERON	2018	9		104,376	86,946	191,322		9.82%	3.44%	4.65%
MYTILINEOS	2018	9	593	99,796	71,706	172,096	0.11%	9.39%	2.84%	4.19%
ELPEDISON	2018	9	8,387	65,281	56,376	130,044	1.60%	6.14%	2.23%	3.16%
WATT_AND_VOLT	2018	9		14,412	56,062	70,474		1.36%	2.22%	1.71%
VOLTERRA	2018	9		38,289	22,875	61,164		3.60%	0.91%	1.49%
NRG_TRADING_HOUS	2018	9		34,752	20,922	55,675		3.27%	0.83%	1.35%
ELTA	2018	9		29,141	16,519	45,659		2.74%	0.65%	1.11%
KEN	2018	9		4,002	26,435	30,437		0.38%	1.05%	0.74%
GREENENV	2018	9		7,302	15,251	22,553		0.69%	0.60%	0.55%
OTEESTATE	2018	9		441	12,573	13,014		0.04%	0.50%	0.32%
VOLTON	2018	9		379	9,996	10,375		0.04%	0.40%	0.25%
ATTIKI_GSC	2018	9		5,574	4,198	9,772		0.52%	0.17%	0.24%
ZENIO	2018	9		4,436	3,240	7,676		0.42%	0.13%	0.19%
VIENER	2018	9		3,490		3,490		0.33%		0.08%
GROWTH	2018	9		1,991	825	2,817		0.19%	0.03%	0.07%
NOVAERA_ENERGY	2018	9		2,241		2,241		0.21%		0.05%
LIG_MEGALOPOLIS	2018	9	2,057			2,057	0.39%			0.05%
INTERBETON	2018	9		1,975	80	2,055		0.19%	0.00%	0.05%
KVMARKOUSA	2018	9		1,255		1,255		0.12%		0.03%
VIOLAR	2018	9		460		460		0.04%		0.01%
LIG_MELITIS	2018	9	432			432	0.08%			0.01%
EUNICE_TRADING	2018	9		109	57	166		0.01%	0.00%	0.00%
EGPH_SUPPLY	2018	9		150		150		0.01%		0.00%
Totals :			523,854	1,063,348	2,523,942	4,111,144	100.00%	100.00%	100.00%	100.00%

**Table.14c Suppliers Market Shares (%) per voltage level (HV-MV-LV) in the Interconnected System based on their Load Declaration in DAS for October – December 2018**

Supplier	Year	Month	Monthly Quantities				Monthly Share			
			HV (MWh)	MV (MWh)	LV (MWh)	DAS-Consumption (MWh)	HV-Share (%)	MV-Share (%)	LV-Share (%)	DAS-Consumption (%)
PPC	2018	10	522,729	569,034	1,864,188	2,955,951	97.32%	56.83%	82.94%	78.07%
PPC_USS	2018	10			12,585	12,585			0.56%	0.33%
HERON	2018	10		112,092	81,211	193,302		11.19%	3.61%	5.11%
MYTILINEOS	2018	10	667	100,397	64,866	165,931	0.12%	10.03%	2.89%	4.38%
ELPEDISON	2018	10	10,588	67,647	52,867	131,102	1.97%	6.76%	2.35%	3.46%
WATT_AND_VOLT	2018	10		14,312	50,299	64,611		1.43%	2.24%	1.71%
VOLTERRA	2018	10		39,186	21,225	60,411		3.91%	0.94%	1.60%
NRG_TRADING_HOUS	2018	10		35,290	17,233	52,523		3.52%	0.77%	1.39%
ELTA	2018	10		27,873	14,817	42,691		2.78%	0.66%	1.13%
KEN	2018	10		3,730	24,959	28,690		0.37%	1.11%	0.76%
GREENENV	2018	10		5,408	13,791	19,199		0.54%	0.61%	0.51%
OTEESTATE	2018	10		373	11,485	11,857		0.04%	0.51%	0.31%
VOLTON	2018	10		362	9,681	10,043		0.04%	0.43%	0.27%
ATTIKI_GSC	2018	10		5,532	3,802	9,334		0.55%	0.17%	0.25%
ZENIO	2018	10		4,374	3,413	7,787		0.44%	0.15%	0.21%
KVMARKOUSA	2018	10		3,477		3,477		0.35%		0.09%
VIENER	2018	10		3,200		3,200		0.32%		0.08%
GROWTH	2018	10		1,936	691	2,626		0.19%	0.03%	0.07%
INTERBETON	2018	10		2,322	84	2,405		0.23%	0.00%	0.06%
NOVAERA_ENERGY	2018	10		2,319		2,319		0.23%		0.06%
VIOLAR	2018	10		2,142		2,142		0.21%		0.06%
LIG_MEGALOPOLIS	2018	10	1,810			1,810	0.34%			0.05%
LIG_MELITIS	2018	10	1,344			1,344	0.25%			0.04%
EUNICE_TRADING	2018	10		208	364	572		0.02%	0.02%	0.02%
EGPH_SUPPLY	2018	10		160		160		0.02%		0.00%
Totals :			537,138	1,001,374	2,247,561	3,786,073	100.00%	100.00%	100.00%	100.00%
PPC	2018	11	510,307	615,745	2,017,191	3,143,243	97.38%	60.25%	82.26%	78.62%
PPC_USS	2018	11			11,976	11,976			0.49%	0.30%
HERON	2018	11		100,629	88,279	188,908		9.85%	3.60%	4.72%
MYTILINEOS	2018	11	916	94,075	77,930	172,921	0.17%	9.21%	3.18%	4.33%
ELPEDISON	2018	11	11,954	70,957	62,522	145,433	2.28%	6.94%	2.55%	3.64%
WATT_AND_VOLT	2018	11		13,078	59,127	72,205		1.28%	2.41%	1.81%
VOLTERRA	2018	11		35,072	22,416	57,488		3.43%	0.91%	1.44%
NRG_TRADING_HOUS	2018	11		37,996	19,229	57,225		3.72%	0.78%	1.43%
ELTA	2018	11		26,244	15,865	42,109		2.57%	0.65%	1.05%
KEN	2018	11		3,404	29,656	33,060		0.33%	1.21%	0.83%
GREENENV	2018	11		2,773	12,882	15,655		0.27%	0.53%	0.39%
VOLTON	2018	11		348	12,134	12,482		0.03%	0.49%	0.31%
OTEESTATE	2018	11		414	11,987	12,401		0.04%	0.49%	0.31%
ATTIKI_GSC	2018	11		5,220	4,828	10,047		0.51%	0.20%	0.25%
ZENIO	2018	11		3,887	4,768	8,655		0.38%	0.19%	0.22%
VIENER	2018	11		2,945		2,945		0.29%		0.07%
GROWTH	2018	11		1,516	871	2,387		0.15%	0.04%	0.06%
INTERBETON	2018	11		2,247	81	2,328		0.22%	0.00%	0.06%
NOVAERA_ENERGY	2018	11		2,241		2,241		0.22%		0.06%
KVMARKOUSA	2018	11		1,641		1,641		0.16%		0.04%
VIOLAR	2018	11		1,165		1,165		0.11%		0.03%
LIG_MELITIS	2018	11	816			816	0.16%			0.02%
EUNICE_TRADING	2018	11		192	392	584		0.02%	0.02%	0.01%
EGPH_SUPPLY	2018	11		165		165		0.02%		0.00%
SOLARENERGY	2018	11			41	41			0.00%	0.00%
LIG_MEGALOPOLIS	2018	11	21			21	0.00%			0.00%
Totals :			524,014	1,021,955	2,452,174	3,998,142	100.00%	100.00%	100.00%	100.00%
PPC	2018	12	471,412	767,712	2,515,063	3,754,187	97.55%	67.98%	82.11%	80.29%
PPC_USS	2018	12			12,819	12,819			0.42%	0.27%
HERON	2018	12		82,704	107,377	190,081		7.32%	3.51%	4.07%
MYTILINEOS	2018	12	771	86,106	102,583	189,460	0.16%	7.62%	3.35%	4.05%
ELPEDISON	2018	12	10,907	65,122	83,058	159,087	2.26%	5.77%	2.71%	3.40%
WATT_AND_VOLT	2018	12		11,988	76,435	88,423		1.06%	2.50%	1.89%
NRG_TRADING_HOUS	2018	12		33,964	25,032	58,996		3.01%	0.82%	1.26%
VOLTERRA	2018	12		32,895	24,148	57,043		2.91%	0.79%	1.22%
ELTA	2018	12		25,302	17,500	42,802		2.24%	0.57%	0.92%
KEN	2018	12		3,007	36,640	39,647		0.27%	1.20%	0.85%
VOLTON	2018	12		489	17,608	18,097		0.04%	0.57%	0.39%
GREENENV	2018	12		2,090	13,424	15,513		0.19%	0.44%	0.33%
OTEESTATE	2018	12		492	14,922	15,413		0.04%	0.49%	0.33%
ZENIO	2018	12		4,196	7,493	11,689		0.37%	0.24%	0.25%
ATTIKI_GSC	2018	12		4,020	7,504	11,523		0.36%	0.24%	0.25%
VIENER	2018	12		4,022		4,022		0.36%		0.09%
INTERBETON	2018	12		1,989	82	2,071		0.18%	0.00%	0.04%
GROWTH	2018	12		1,144	894	2,038		0.10%	0.03%	0.04%
NOVAERA_ENERGY	2018	12		772		772		0.07%		0.02%
KVMARKOUSA	2018	12		681		681		0.06%		0.01%
EUNICE_TRADING	2018	12		194	429	624		0.02%	0.01%	0.01%
VIOLAR	2018	12		271		271		0.02%		0.01%
EGPH_SUPPLY	2018	12		170		170		0.02%		0.00%
SOLARENERGY	2018	12			164	164			0.01%	0.00%
LIG_MELITIS	2018	12	144			144	0.03%			0.00%
LIG_MEGALOPOLIS	2018	12	10			10	0.00%			0.00%
Totals :			483,244	1,129,329	3,063,174	4,675,747	100.00%	100.00%	100.00%	100.00%