

YEARLY DAS TRADING SYSTEM REPORT

2018

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1. Participation in DAS

1.1 Participants Register

The following tables present the registered Participants from the Participants' Register during the year 2018. Participants who participated in DAS during the year with the specific Participant Type which is stated at the top of each table are indicated with blue color.

Producers

S/N	PARTICIPANT NAME	ABBREVIATION
1	ELPEDISON ΠΑΡΑΓΩΓΗ ΗΛΕΚΤΡΙΚΗΣ ΕΝΕΡΓΕΙΑΣ Α.Ε.	ELPEDISON
2	ΔΗΜΟΣΙΑ ΕΠΙΧΕΙΡΗΣΗ ΗΛΕΚΤΡΙΣΜΟΥ Α.Ε.	PPC
3	ΗΡΩΝ II ΒΟΙΩΤΙΑΣ Α.Ε.	HERON_II_VIOTIAS
4	ΗΡΩΝ ΘΕΡΜΟΗΛΕΚΤΡΙΚΗ Α.Ε.	HERON
5*	ΚΟΡΙΝΘΟΣ POWER Α.Ε.	KORINTHOS_POWER
6*	ΛΙΓΝΙΤΙΚΗ ΜΕΓΑΛΟΠΟΛΗΣ Α.Ε.	LIG_MEGALOPOLIS
7*	ΛΙΓΝΙΤΙΚΗ ΜΕΛΙΤΗΣ Α.Ε.	LIG_MELITIS
8	ΜΥΤΙΛΗΝΑΙΟΣ ΑΝΩΝΥΜΟΣ ΕΤΑΙΡΕΙΑ – ΟΜΙΛΟΣ ΕΠΙΧΕΙΡΗΣΕΩΝ	MYTILINEOS

* LIG_MEGALOPOLIS, LIG_MELITIS and KORINTHOS_POWER holders of production license, participated also in DAS as Suppliers for serving the auxiliary loads of their generation units.

In June 2018, the Operator of Electricity Market S.A. (LAGIE) was renamed to RES and GOs Operator S.A. (DAPEEP) who continues to participate in DAS as a "Producer", as the credits for the RES production are transferred to the RES Special Account of Article 40 of Law 2773/1999.

In July 2018, LIG_MEGALOPOLIS and LIG_MELITIS were established after spin-off of PPC branch in application of Law 4533/2018.

Suppliers

S/N	PARTICIPANT NAME	ABBREVIATION
1*	ALPIQ ENERGY SE	ALPIQ_ENERGY
2	ECONOMIC GROWTH Α.Ε.	GROWTH
3*	EDELWEISS ENERGIA S.P.A.	EDELWEISS
4*	ELECTRADE S.P.A.	ELECTRADE SPA
5*	ELPEDISON ΠΑΡΑΓΩΓΗ ΗΛΕΚΤΡΙΚΗΣ ΕΝΕΡΓΕΙΑΣ Α.Ε.	ELPEDISON
6	ENEL GREEN POWER HELLAS ΠΡΟΜΗΘΕΙΑ Α.Ε.	EGPH_SUPPLY
7*	EUNICE TRADING Α.Ε.	EUNICE_TRADING
8*	EVN TRADING SOUTH EAST EUROPE EAD	EVN_TRADING_SEE
9*	GEN-I ATHENS Μ.Ε.Π.Ε. (SMLLC)	GEN-I-ATHENS
10*	GREEK ENVIRONMENTAL & ENERGY NETWORK Α.Ε.	GREENENV
11	GREENSTEEL-CEDALION COMMODITIES Α.Ε.	GREENSTEEL
12*	INTERMPETON – ΔΟΜΙΚΑ ΥΛΙΚΑ Α.Ε.	INTERBETON
13*	ΚΕΝ ΠΑΡΑΓΩΓΗ ΚΑΙ ΕΜΠΟΡΙΑ ΕΝΕΡΓΕΙΑΚΩΝ ΠΡΟΪΟΝΤΩΝ Α.Ε.	KEN
14*	NOVAERA ENERGY Α.Ε.	NOVAERA_ENERGY
15*	NRG TRADING HOUSE S.A.	NRG_TRADING_HOUS
16*	NECO Α.Ε.	NECO_HELLAS
17	PROTERGIA ΘΕΡΜΟΗΛΕΚΤΡΙΚΗ Α.Ε.	PROTERGIA_THER
18	SOLAR ENERGY	SOLARENERGY
19*	VOLTERRA Α.Ε.	VOLTERRA
20*	VOLTON ΕΛΛΗΝΙΚΗ ΕΝΕΡΓΕΙΑΚΗ Α.Ε.	VOLTON
21*	WATT AND VOLT Α.Ε.	WATT_AND_VOLT
22	ΑΝΩΝΥΜΗ ΕΤΑΙΡΕΙΑ ΤΣΙΜΕΝΤΩΝ TITAN	TITAN
23*	BIENER Α.Ε. ΕΝΕΡΓΕΙΑΚΕΣ ΕΠΙΧΕΙΡΗΣΕΙΣ Α.Ε.	VIENER
24	ΒΙΟΛΑΡ Α.Ε.	VIOLAR
25*	ΔΗΜΟΣΙΑ ΕΠΙΧΕΙΡΗΣΗ ΗΛΕΚΤΡΙΣΜΟΥ Α.Ε.	PPC
26*	ΕΛΛΗΝΙΚΑ ΤΑΧΥΔΡΟΜΕΙΑ Α.Ε.	ELTA
27*	ZENIO GAS & LIGHT	EPA_THESS
28*	ΗΛΕΚΤΡΟΠΑΡΑΓΩΓΗ ΣΟΥΣΑΚΙΟΥ Α.Ε.	SUSAKI_POWER
29*	ΗΡΩΝ ΘΕΡΜΟΗΛΕΚΤΡΙΚΗ Α.Ε.	HERON
30	ΚΩΝΣΤΑΝΤΙΝΟΣ Β. ΜΑΡΚΟΥ Α.Β.Ε.Ε.	KVMARKOUSA

31*	ΜΥΤΙΛΗΝΑΙΟΣ Α.Ε. – ΟΜΙΛΟΣ ΕΠΙΧΕΙΡΗΣΕΩΝ	MYTILINEOS
32	ΟΤΕ ΑΚΙΝΗΤΑ Α.Ε.	OTEESTATE
33	ΠΡΟΜΗΘΕΥΤΗΣ ΚΑΘΟΛΙΚΗΣ ΥΠΗΡΕΣΙΑΣ	PPC_USS
34	ΠΡΟΜΗΘΕΥΤΗΣ ΤΕΛΕΥΤΑΙΟΥ ΚΑΤΑΦΥΓΙΟΥ	PPC_LRS
35	ΦΥΣΙΚΟ ΑΕΡΙΟ-ΕΛΛΗΝΙΚΗ ΕΤΑΙΡΕΙΑ ΕΝΕΡΓΕΙΑΣ	ATTIKI_GSC

* Participants who are holders of supply license, participated in DAS as Traders.

Traders

S/N	PARTICIPANT NAME	ABBREVIATION
1	ALPIQ ENERGY HELLAS A.E.	ALPIQ_HELLAS
2	AYEN ENERGIJA D.O.O.	AYEN_ENERGIJA
3	AXPO ENERGY ROMANIA S.A.	AXPO_ROMANIA
4	CEZ A.S.	CEZ A.S.
5	DANSKE COMMODITIES A/S	DANSKECOM
6	DUFERCO ENERGIA S.P.A.	DUFERCO
7	EDISON S.P.A	EDISON_TRADING
8	EDF TRADING LIMITED	EDF_TRADING_LTD
9	ELEKTRICNI FINANCNI TIM D.O.O.	EFT_SLOVENIA
10	ENEL TRADE S.P.A.	ENEL_TRADE
11	ENERGY MT EAD	ENERGY_MT_EAD
12	ENSCO S.A.	ENSCO_ENERGY
13	EZPADA S.R.O.	EZPADA
14	GAZPROM MARKETING & TRADING LIMITED	GAZPROM
15	GROUP TRANS ENERGY OOD	GT_ENERGY
16	HSE D.O.O.	HSE
17	INTERENERGO D.O.O.	INTERENERGO
18	LE TRADING A.S.	LE TRADING
19	NVALUE A.G.	NVALUE
20	SENTRADE A.E.	SENTRADE
21	STATKRAFT MARKETS GMBH	STATKRAFT_MARKET
22	VITOL GAS AND POWER B.V.	VITOL
23	ΣΟΛΑΡΙΣ ΕΝΕΡΓΕΙΑΚΗ Α.Ε.	SOLARIS
24	ΤΕΡΝΑ ΕΝΕΡΓΕΙΑΚΗ ΑΒΕΤΕ	TERNA_ENERGY
25	DENCO S.R.L.	DENCO
26*	DXT International S.A.	DXT

* Participant Dufenergy S.A. was renamed to DXT International S.A. in 2018.

1.2 Generation Units in Interconnected System*

	UNIT	OWNER	INSTALLED CAPACITY (MW)
Lignite Units	AG. DIMITRIOS I	PPC	274.0
	AG. DIMITRIOS II	PPC	274.0
	AG. DIMITRIOS III	PPC	283.0
	AG. DIMITRIOS IV	PPC	283.0
	AG. DIMITRIOS V	PPC	342.0
	AMYNDEO I	PPC	273.0
	AMYNDEO II	PPC	273.0
	MELITI	LIG_MELITIS	289.0
	KARDIA I	PPC	271.1
	KARDIA II	PPC	270.8
	KARDIA III	PPC	280.0
	KARDIA IV	PPC	280.0
	MEGALOPOLI III	LIG_MEGALOPOLIS	255.0
	MEGALOPOLI IV	LIG_MEGALOPOLIS	256.0
	Total of Lignite Units		3,903.9
Natural Gas Units	KOMOTINI	PPC	476.0
	LAVRIO 4	PPC	550.0
	LAVRIO 5	PPC	378.0
	ALIVERI V	PPC	417.0
	MEGALOPOLI V	PPC	500.0
	ELPEDISON THESS	ELPEDISON	400.2
	ELPEDISON THISVI	ELPEDISON	410.0
	HERON CC	HERON_II_VIOTIAS	422.0
	PROTERGIA CC	MYTILINEOS	432.7
	KORINTHOS POWER	KORINTHOS POWER	433.4
	ALOUMINIO	MYTILINEOS	334.0
	HERON 1	HERON	49.0
	HERON 2	HERON	49.0
	HERON 3	HERON	49.0
	Total of Natural Gas Units		4,900.3
Hydro Units	AGRAS	PPC	50.0
	ASOMATA	PPC	108.0
	P_AOOU	PPC	210.0
	EDESSAIOS	PPC	19.0
	THESAVROS	PPC	384.0
	ILARIONAS	PPC	153.0
	KASTRAKI	PPC	320.0
	KREMASTA	PPC	437.2
	LADONAS	PPC	70.0

	PLASTIRAS	PPC	129.9
	PLATANOVRYSI	PPC	116.0
	POLYFYTO	PPC	375.0
	POURNARI 1	PPC	300.0
	POURNARI 2	PPC	33.6
	STRATOS 1	PPC	150.0
	SFIKIA	PPC	315.0
	Total of Hydro Units		3,170.7
RES	WIND	RES	2,555.3
	PV	RES	2,139.9
	PV ROOFS	RES	351.3
	HYDRO	RES	239.5
	BIOMASS	RES	82.2
	CHP	RES	100.8
	Total of RES Units		5,468.0
	Total of Thermal Units		8,804.2
	Total of RES & Hydro Units		8,639.5
	Total of all Units		17,443.7

Source: DAPEEP, ADMIE

* Installed capacity as of December 2018

** On 14/08/2018, Natural Gas Unit MEGALOPOLI V commenced its commercial operation with installed capacity 500 MW.

*** On 23/02/2018, Hydro Unit ILARIONAS commenced its commercial operation with installed capacity 153 MW.

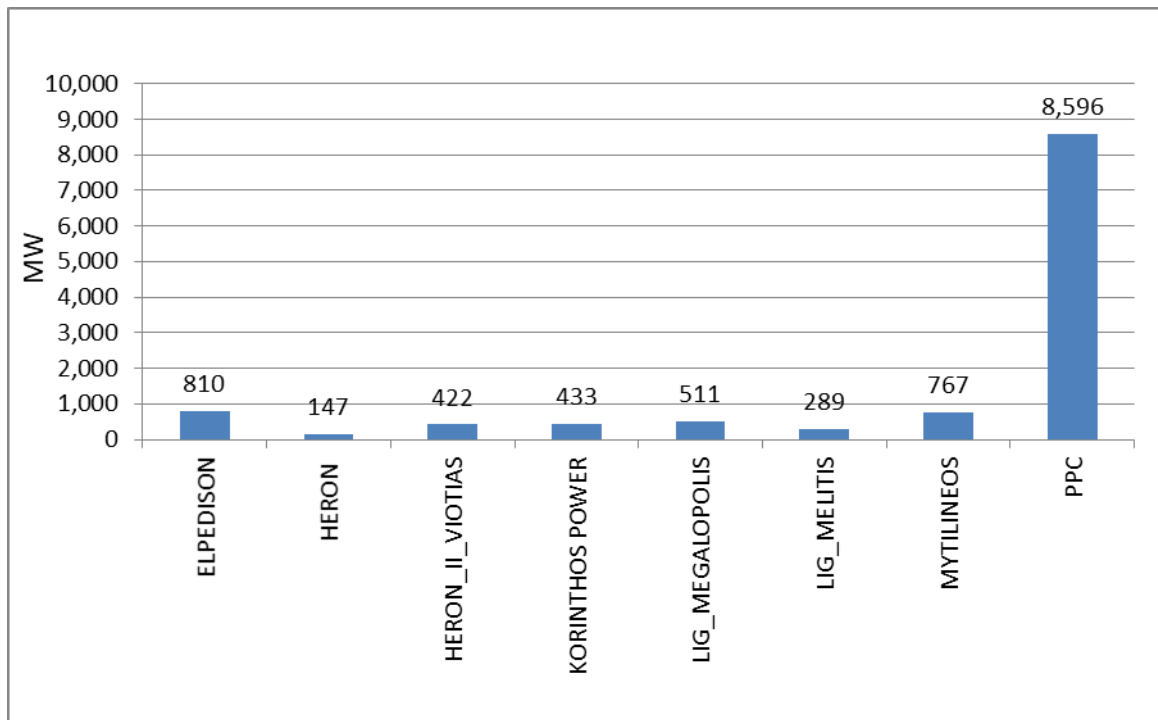


Figure 1: Total Installed Capacity of Units per Producer (RES excluded) (December 2018)

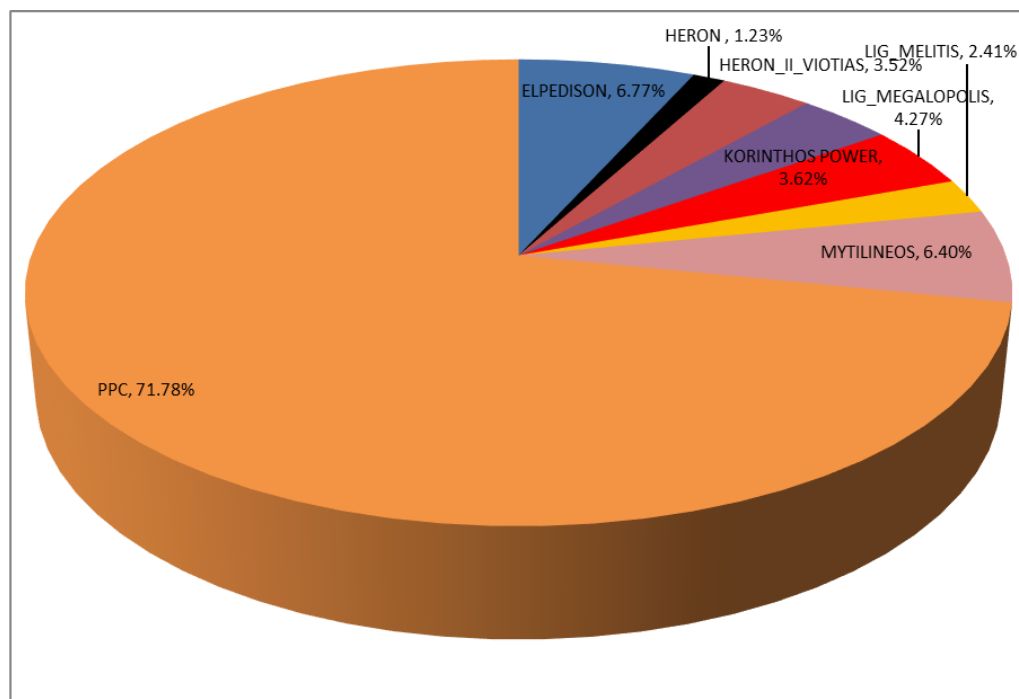


Figure 2: Percentage (%) of Total Installed Capacity per Producer (RES excluded) (December 2018)

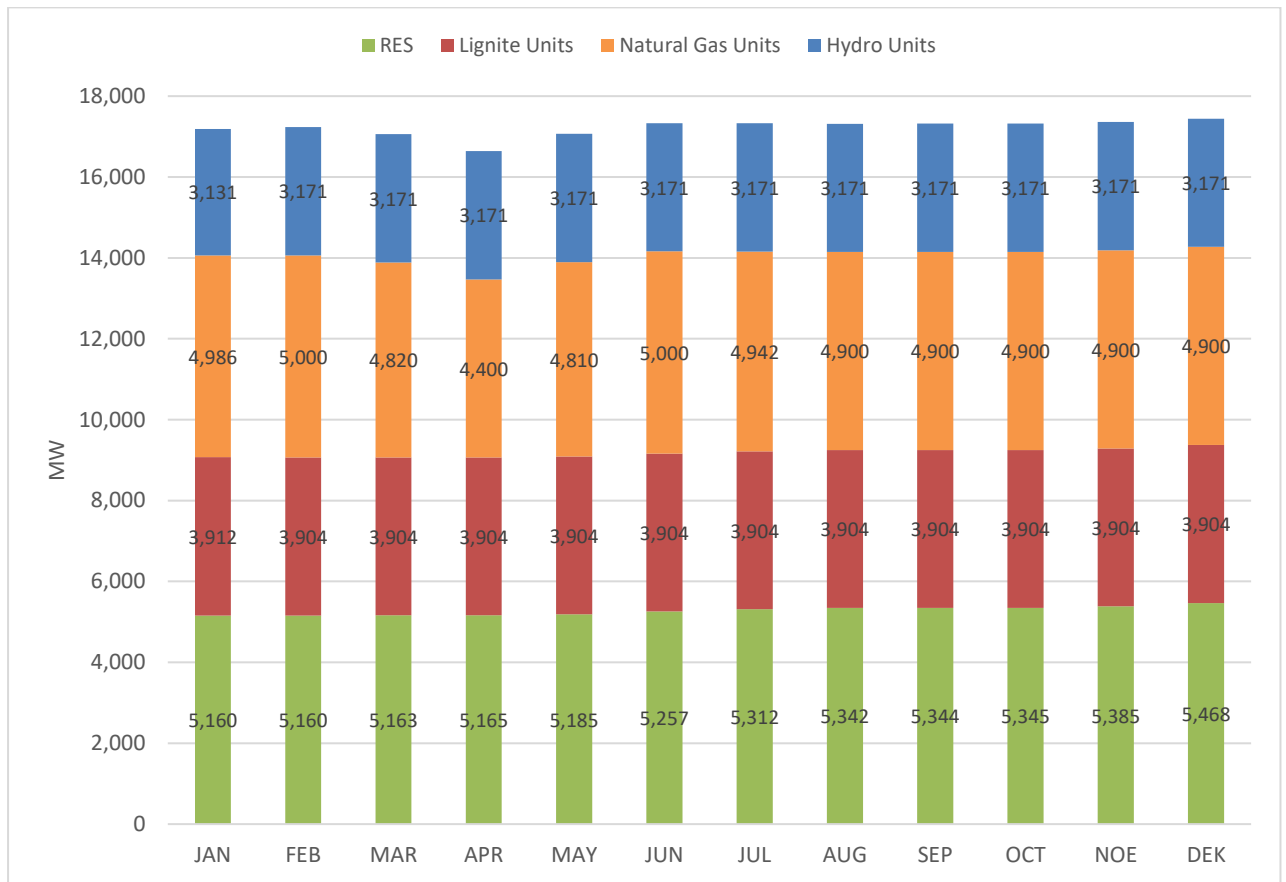


Figure 3: Total Monthly Installed Capacity of Units per Fuel type in the Interconnected System

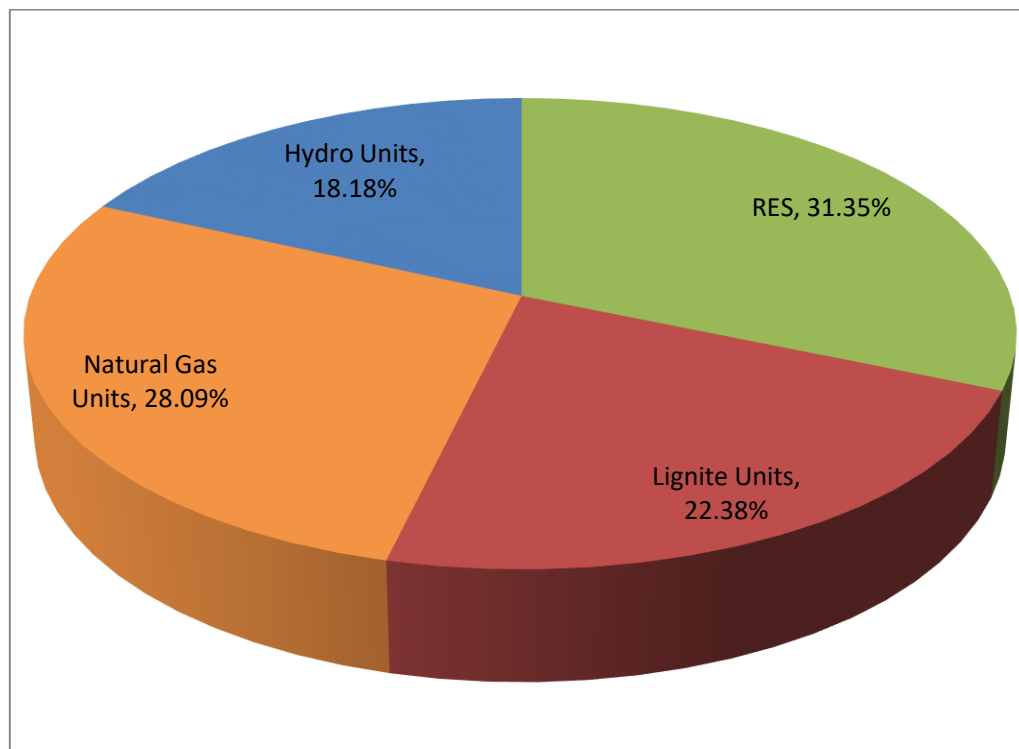


Figure 4: Percentage (%) of total Installed Capacity per Fuel type in the Interconnected System (December 2018)

2. System Marginal Price (SMP)

	SMP (€/MWh)	Date	Hour
Minimum	0,000	13/03/2018	01
		18/03/2018	09, 10, 11, 12, 13, 14, 15, 16, 18
		24/03/2018	02, 04, 07
		26/03/2018	01
		08/04/2018	14, 15, 16, 17
		27/09/2018	01
		28/10/2018	16, 17
		29/11/2018	04, 05
Maximum	145,000	01/03/2018	20
Average	60,394		

Table 1: SMP data

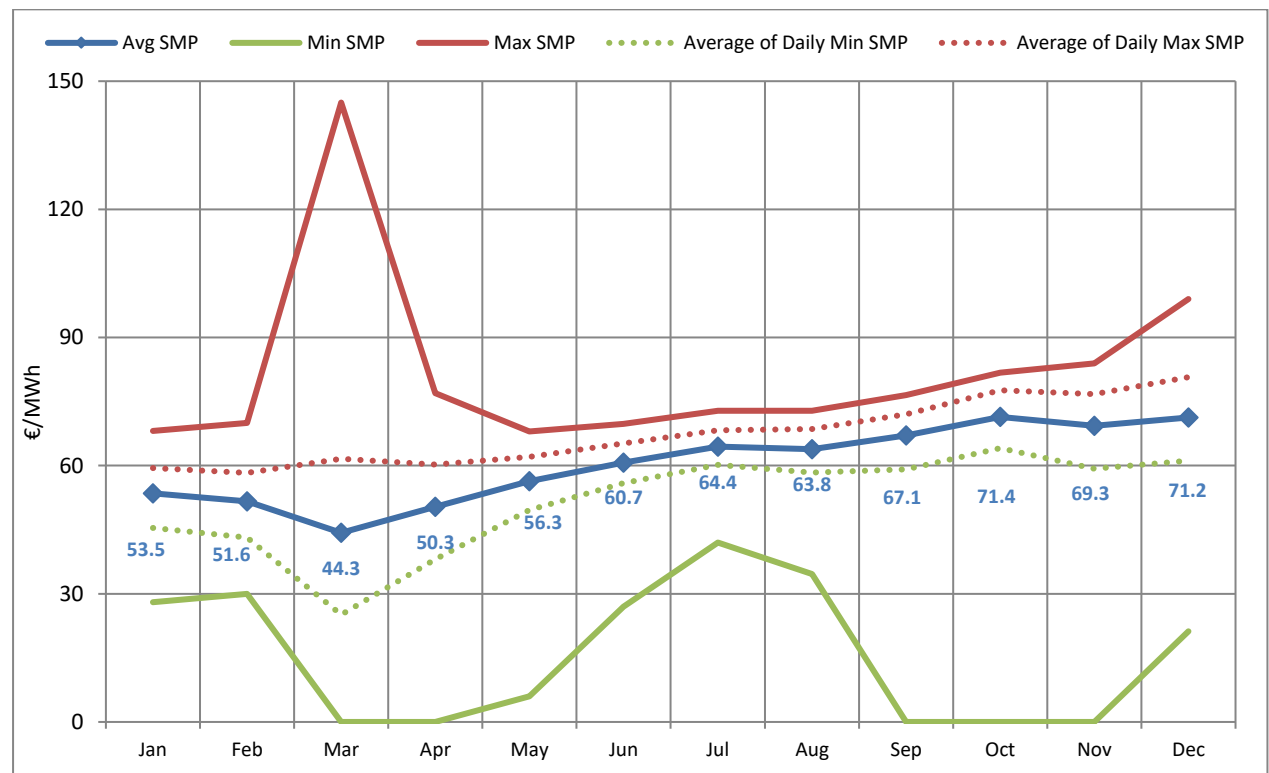


Figure 5: Average, Minimum and Maximum Monthly SMP (€/MWh) and average of Minimum and Maximum Daily SMP (€/MWh) per month

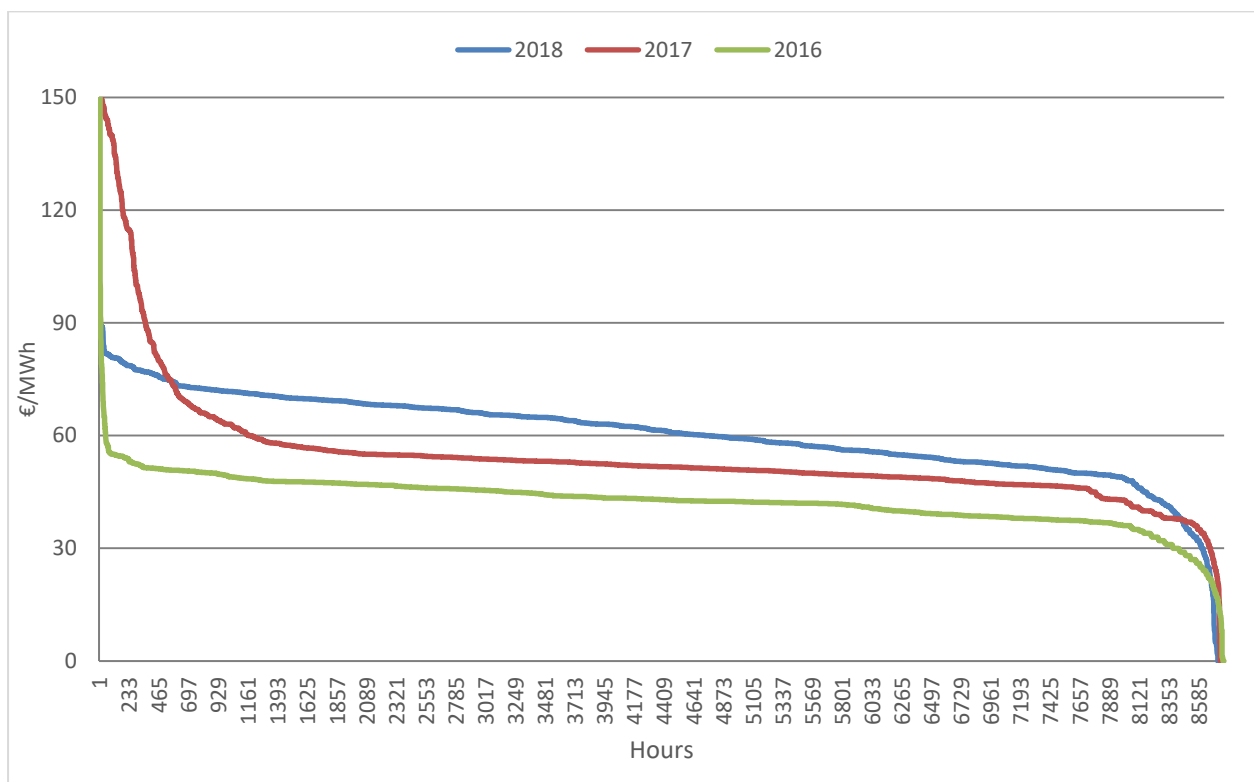


Figure 5a: SMP duration curve (€/MWh) for years 2018, 2017, 2016

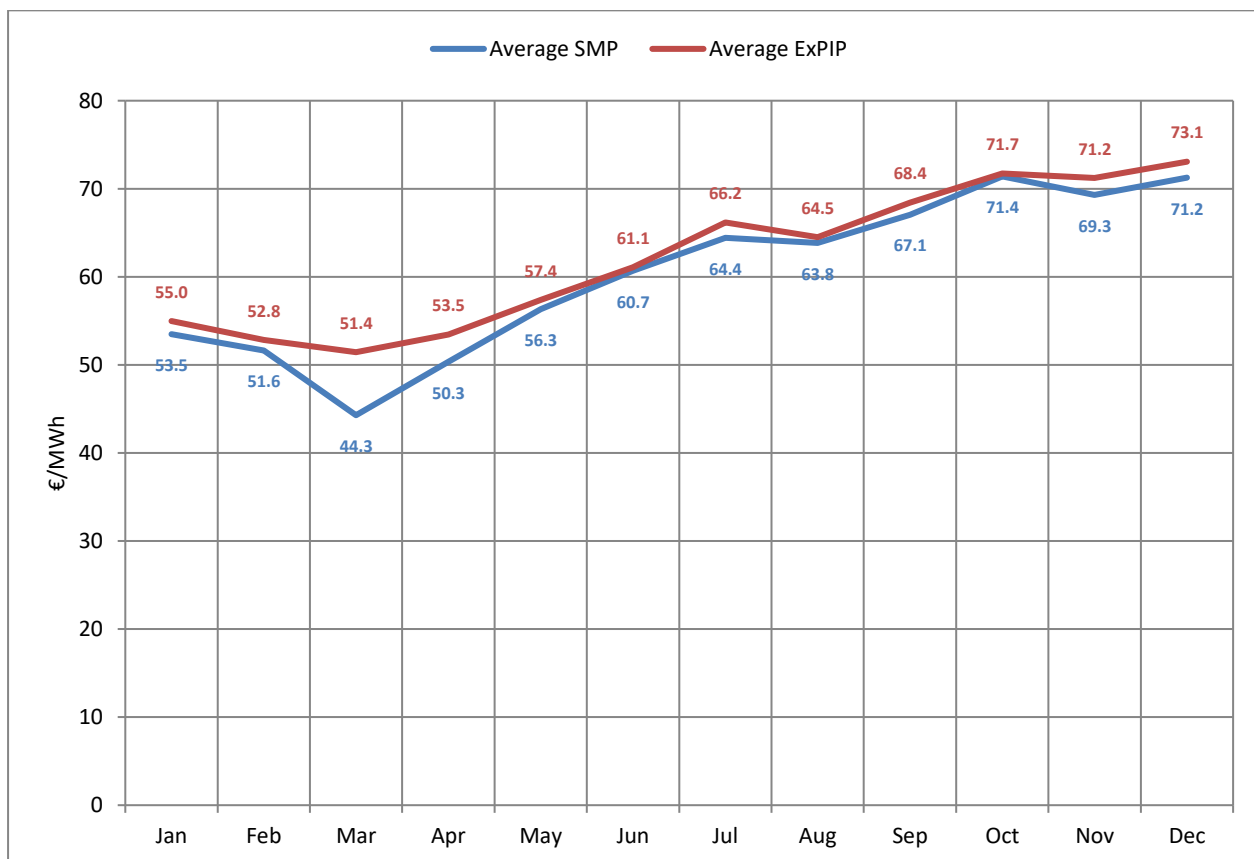


Figure 6: Average Monthly SMP and ExPIP

Source: HENEX, ADMIE

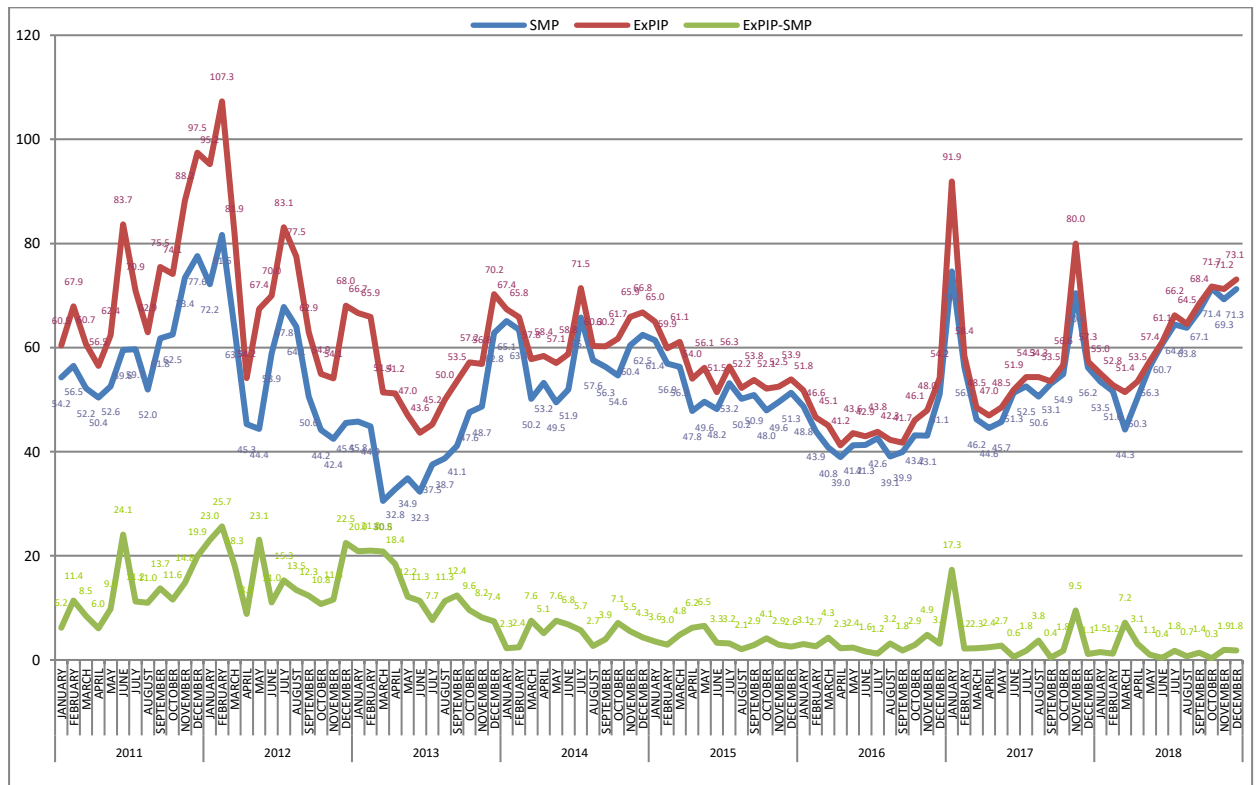


Figure 7: Evolution of average monthly SMP, ExPIP and their difference

Source: HENEX, ADMIE

		Average Monthly SMP		Average Monthly ExPIP		Difference SMP-ExPIP
		€/MWh	% deviation*	€/MWh	% deviation*	€/MWh
2016	January	48,76	-20,62	51,82	-20,26	3,06
	February	43,92	-22,84	46,57	-22,23	2,65
	March	40,78	-27,56	45,07	-26,25	4,29
	April	38,97	-18,51	41,23	-23,67	2,25
	May	41,25	-16,81	43,60	-22,29	2,36
	June	41,31	-14,26	42,94	-16,58	1,63
	July	42,60	-19,88	43,83	-22,21	1,23
	August	39,07	-22,10	42,26	-19,07	3,19
	September	39,94	-21,49	41,74	-22,36	1,80
	October	43,17	-9,99	46,05	-11,64	2,87
	November	43,11	-13,02	47,97	-8,57	4,86
	December	51,09	-0,43	54,18	0,54	3,09
2017	January	74,60	53,00	91,91	77,38	17,32
	February	56,22	28,01	58,43	25,47	2,21
	March	46,22	13,33	48,50	7,60	2,28
	April	44,57	14,35	46,98	13,96	2,41
	May	45,73	10,88	48,47	11,17	2,74
	June	51,32	24,22	51,90	20,85	0,57
	July	52,54	23,33	54,32	23,93	1,78
	August	50,57	29,43	51,10	20,91	0,53
	September	53,06	32,86	53,51	28,21	0,45
	October	54,88	27,16	56,63	22,98	1,74
	November	70,45	63,41	79,98	66,72	9,53
	December	56,19	9,98	57,32	5,79	1,13
2018	January	53,50	-28,28	54,99	-40,17	1,49
	February	51,63	-8,17	52,82	-9,61	1,19
	March	44,28	-4,19	51,44	6,07	7,16
	April	50,35	12,97	53,47	13,81	3,12
	May	56,32	23,15	57,37	18,36	1,05
	June	60,69	18,26	61,07	17,68	0,38
	July	64,42	22,62	66,20	21,87	1,77
	August	63,83	26,23	64,52	18,79	0,69
	September	67,06	26,38	68,43	27,88	1,37
	October	71,40	30,11	71,74	26,68	0,34
	November	69,30	-1,63	71,22	-10,95	1,93
	December	71,25	26,81	73,08	27,48	1,83

Source: HENEX, ADMIE

Table 2: Evolution of average monthly SMP, ExPIP and their difference, as well as the % deviation of average monthly SMP & ExPIP in relation to the same month of the previous year for years 2018, 2017, 2016

*The calculation of SMP & ExPIP commenced in the Fifth Reference Day on 30/09/2010

	Lignite	Natural Gas	Hydro	Imports	Exports
January	306	284	29	96	29
February	203	299	22	111	37
March	162	248	30	160	143
April	104	356	31	156	73
May	308	336	5	56	39
June	364	310	22	18	6
July	404	206	0	108	26
August	304	285	6	111	38
September	246	432	7	25	10
October	250	455	30	9	1
November	333	308	45	30	4
December	284	325	62	61	12
Total	3268	3844	289	941	418

Table 3: Number of hours for each type of fuel, imports and exports that have defined the SMP

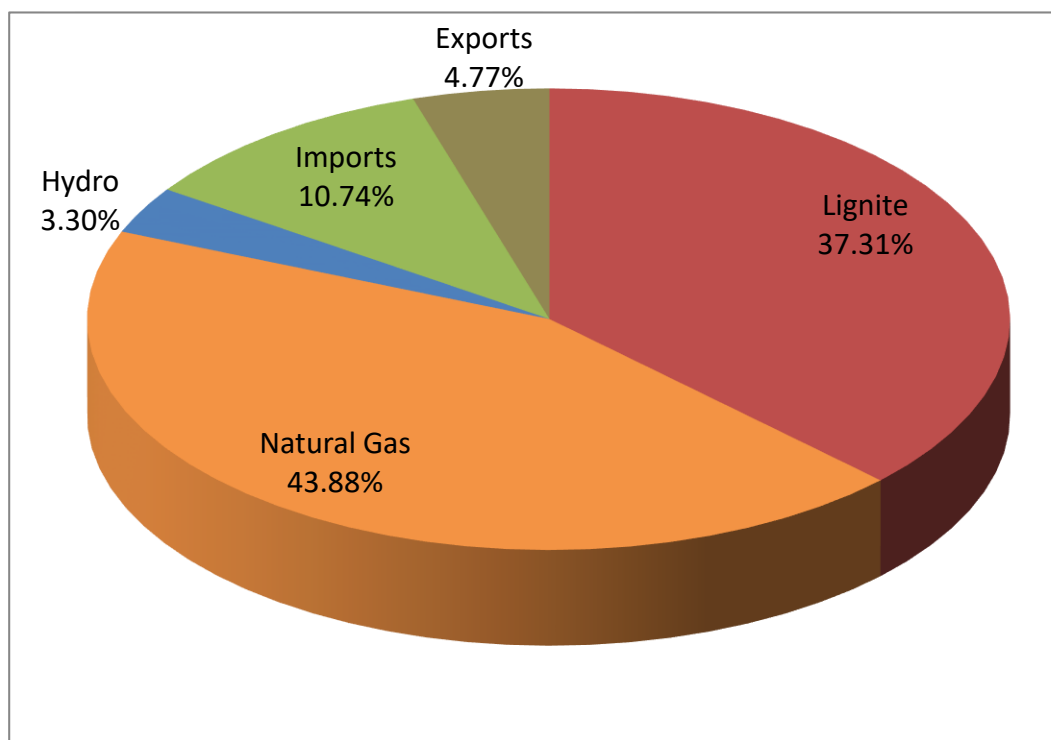


Figure 8: Percentage (%) of total hours per fuel type/imports/exports that have defined the SMP for year 2018

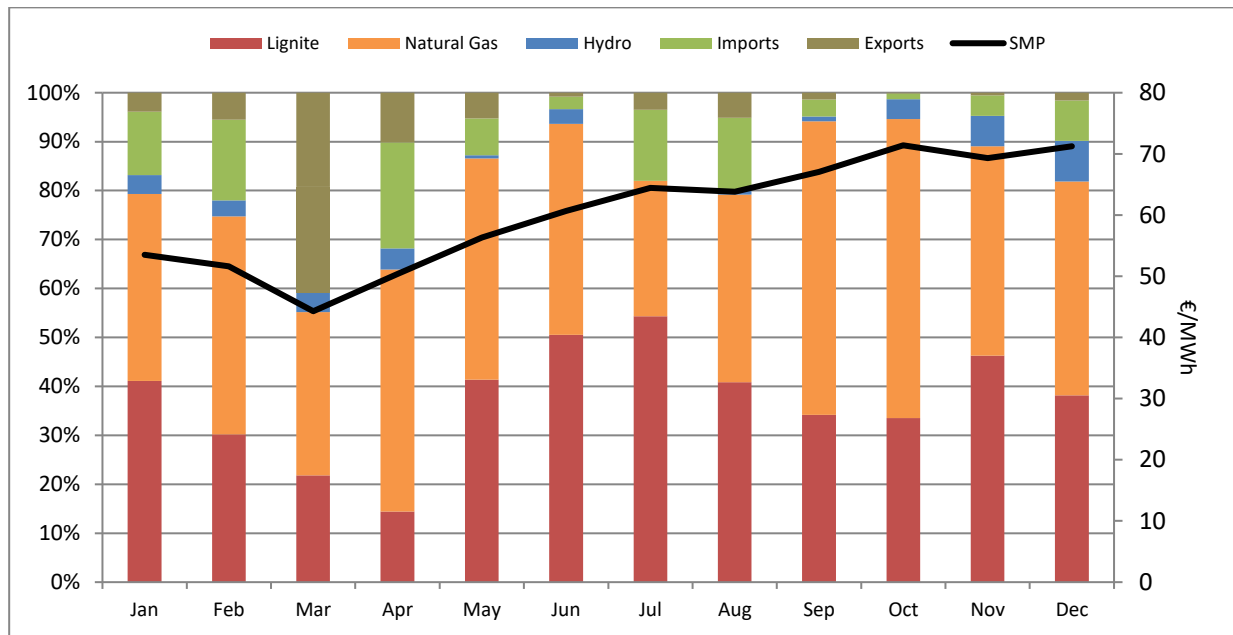


Figure 9: Monthly percentage (%) distribution of fuel type/import/export that have defined SMP in 2018

3. DAS Energy Balance

	2018	2017	% deviation of 2018 from 2017	2016	% deviation of 2018 from 2016
PRODUCTION AND IMPORTS - EXPORTS BALANCE (MWh)					
TOTAL PRODUCTION & IMPORTS - EXPORTS BALANCE	50,874,701	51,600,870	-1.41	50,106,670	2.98
NET PRODUCTION ANALYSIS					
LIGNITE	15,214,863	17,591,353	-13.51	14,769,398	19.11
OIL	0	0	-	0	-
NATURAL GAS	15,238,477	16,361,373	-6.86	13,941,674	17.36
HYDRO	4,514,111	2,476,341	82.29	4,103,384	-39.65
RES	9,907,656	9,109,374	8.76	8,742,081	4.20
TOTAL NET PRODUCTION	44,875,108	45,538,441	-1.46	41,556,538	9.58
IMPORTS					
	10,976,858	8,907,345	23.23	10,748,450	-17.13
ALBANIA	1,936,354	1,179,655	64.15	1,811,928	-34.90
BULGARIA	3,799,122	3,122,420	21.67	3,988,862	-21.72
ITALY	1,628,667	2,063,929	-21.09	2,211,059	-6.65
F.Y.R.O.M.	2,903,692	2,044,662	42.01	2,554,478	-19.96
TURKEY	709,022	496,679	42.75	182,124	172.71
EXPORTS	4,977,265	2,844,917	74.95	2,198,318	29.41
ALBANIA	1,007,954	872,063	15.58	381,866	128.37
BULGARIA	220,583	265,318	-16.86	291,584	-9.01
ITALY	2,134,381	764,835	179.06	517,422	47.82
F.Y.R.O.M.	1,592,601	926,212	71.95	211,927	337.04
TURKEY	21,745	16,489	31.88	795,520	-97.93
IMPORTS - EXPORTS BALANCE	5,999,594	6,062,429	-1.04	8,550,132	-29.10
DEMAND (MWh)					
TOTAL DEMAND	50,874,701	51,600,870	-1.41	50,106,670	2.98
NET DEMAND	50,853,391	51,501,445	-1.26	50,087,685	2.82
PUMPING	21,310	99,425	-78.57	18,985	423.70
TOTAL DEMAND ANALYSIS					
LOW VOLTAGE CUSTOMERS	31,705,914	32,261,988	-1.72	31,481,908	2.48
MEDIUM VOLTAGE CUSTOMERS	12,872,475	13,010,623	-1.06	12,292,856	5.84
HIGH VOLTAGE CUSTOMERS	6,275,002	6,228,834	0.74	6,312,922	-1.33
SYSTEM PEAK POWER (MW)					
MAXIMUM HOURLY SYSTEM POWER	9,080	9,610	-5.52	9,082	5.81
Date	23/07/2018	13/07/2017		15/07/2018	
Hour of maximum	14:00	14:00		14:00	

The DAS Energy Balance refers to the Market Point, where the solution of DAS also refers to, in which system losses have already been allocated. According to Chapter 10 of the Power Exchange Code for Electricity, to each Generation Unit Metering point and to each Interconnection Metering point for Import, as well as to each Meter point of the Distribution Network, losses factors are applied, in order to allocate both injected and absorbed power to the Market Points.

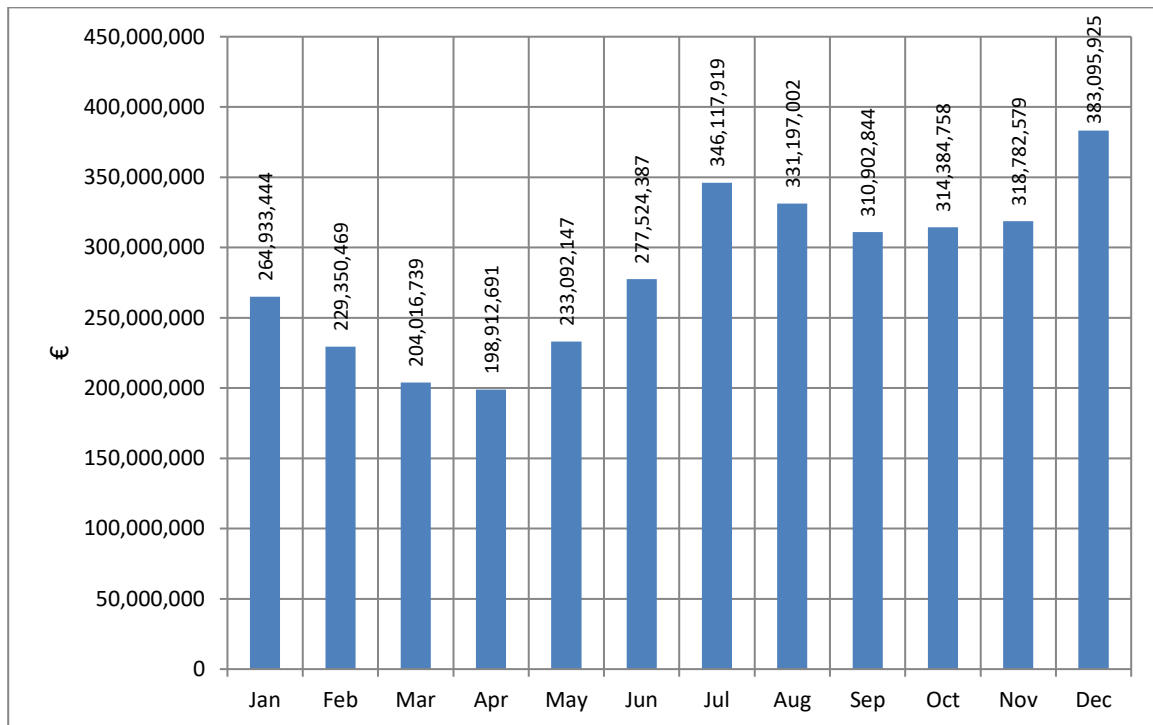


Figure 10: Monthly value of DAS

The total value of DAS for 2018 reached 3,412 B€.

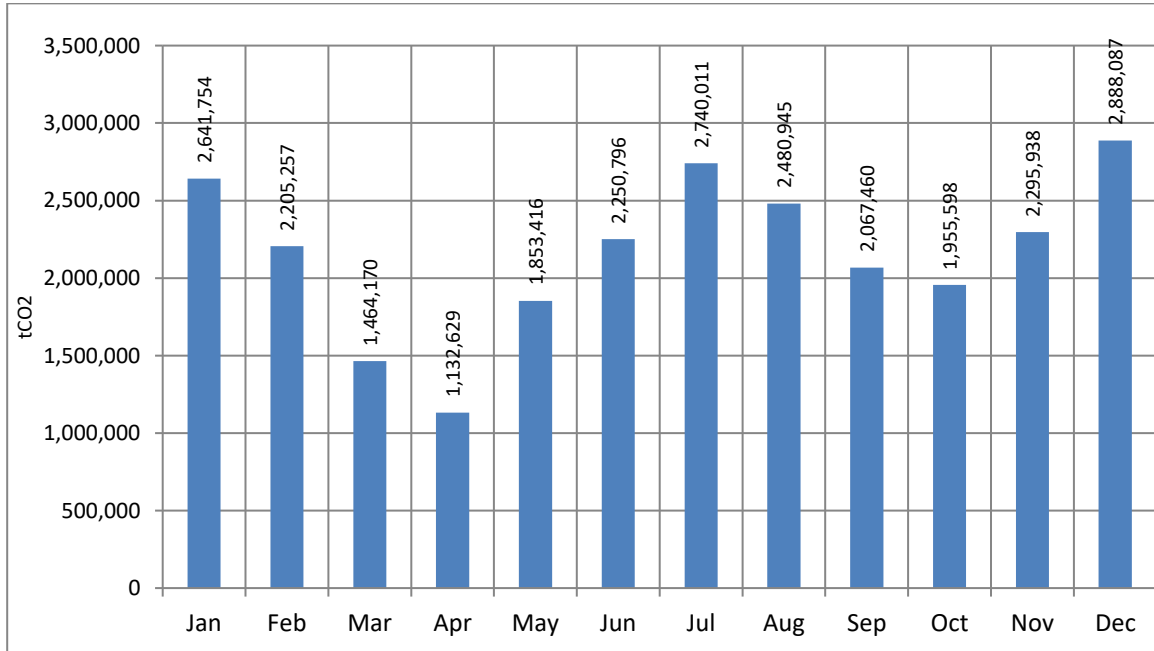


Figure 11: Monthly CO2 emissions from Electricity Generation

Assumptions on emissions coefficients were based on “Annual Inventory submission under the Convention and the Protocol for Greenhouse Gases”, April 2018. Moreover, for simplification purposes, efficiency of lignite, natural gas and oil units was considered 0.33 , 0.55 and 0.38 respectively.

4. Domestic Power Generation

4.1 Production and Credit per fuel type

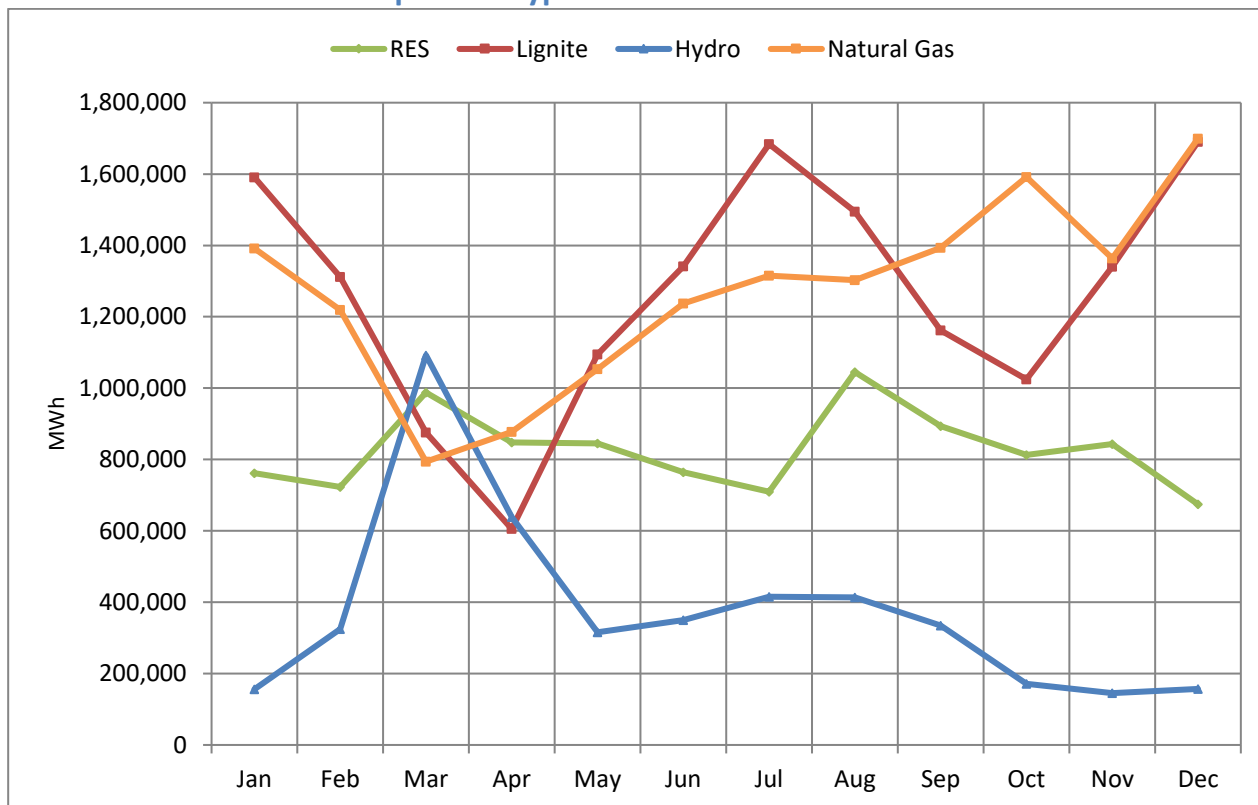


Figure 12: Monthly production per fuel type

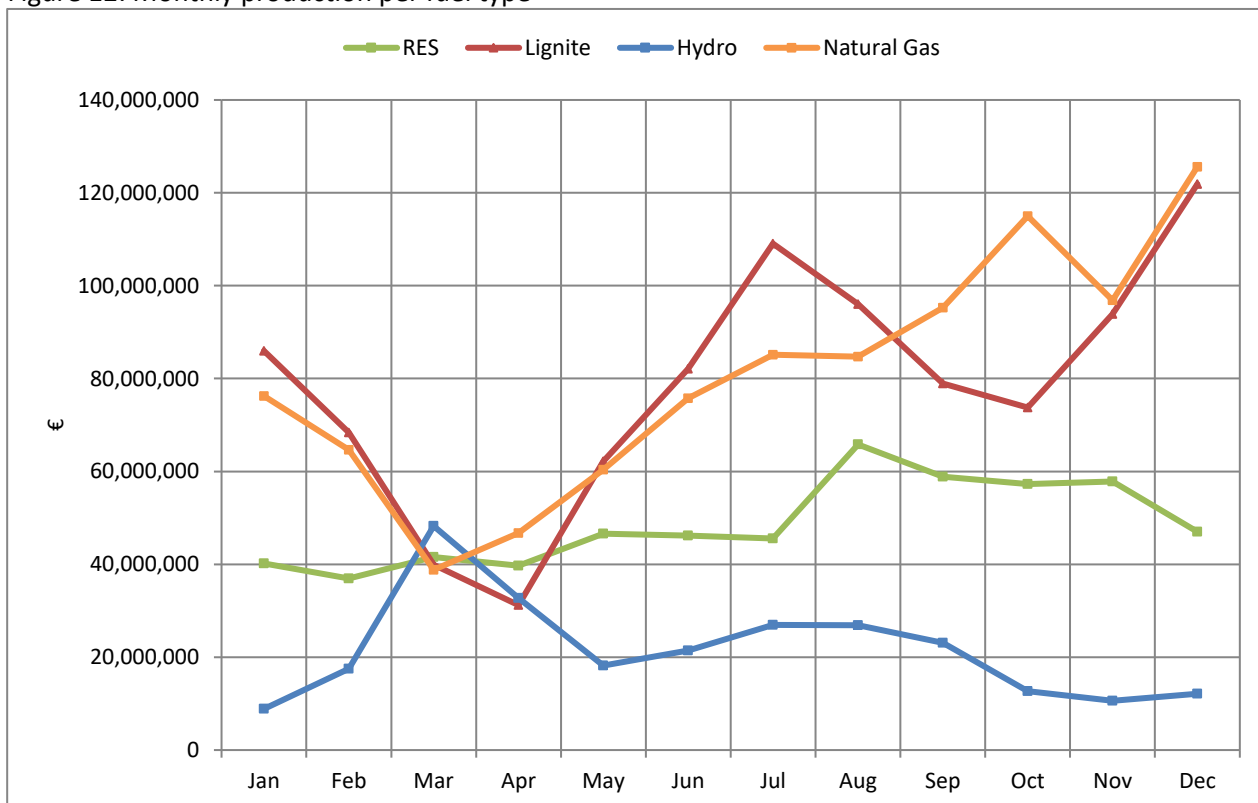


Figure 13: Monthly production credit per fuel type

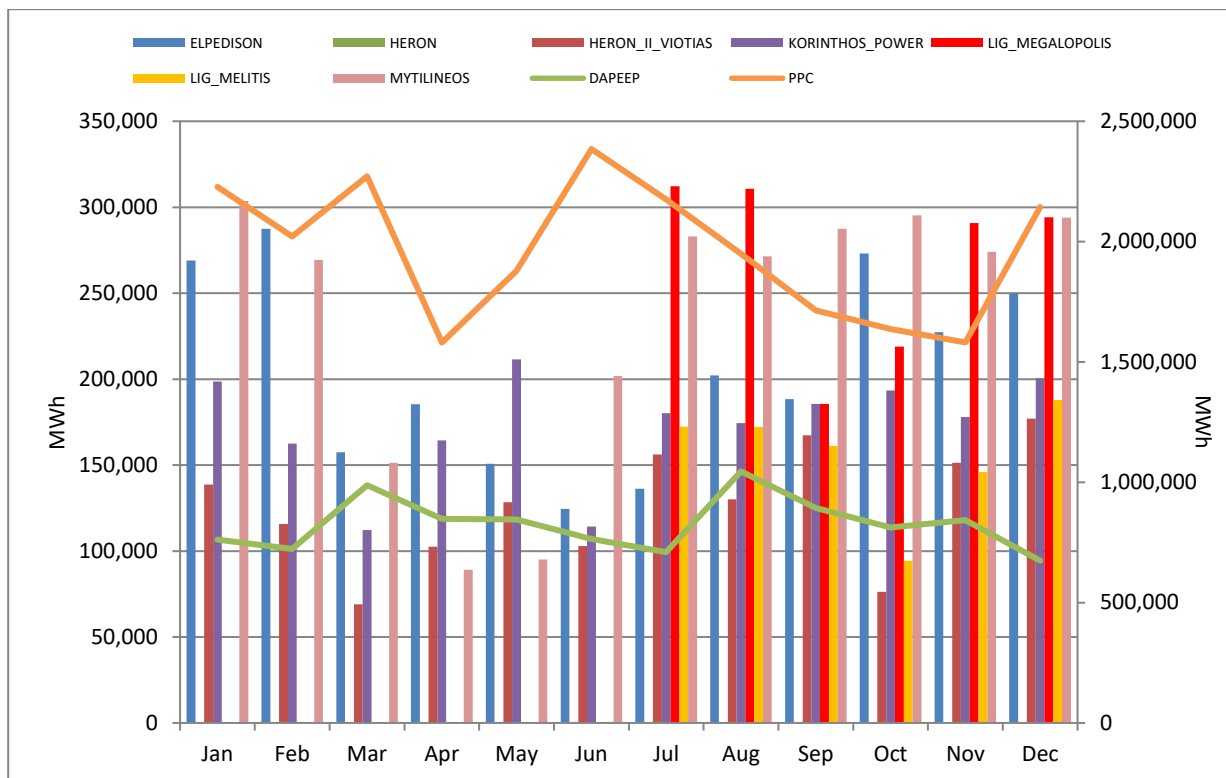


Figure 14: Monthly production per Participant (the right axis represents the production of PPC and DAPEEP)

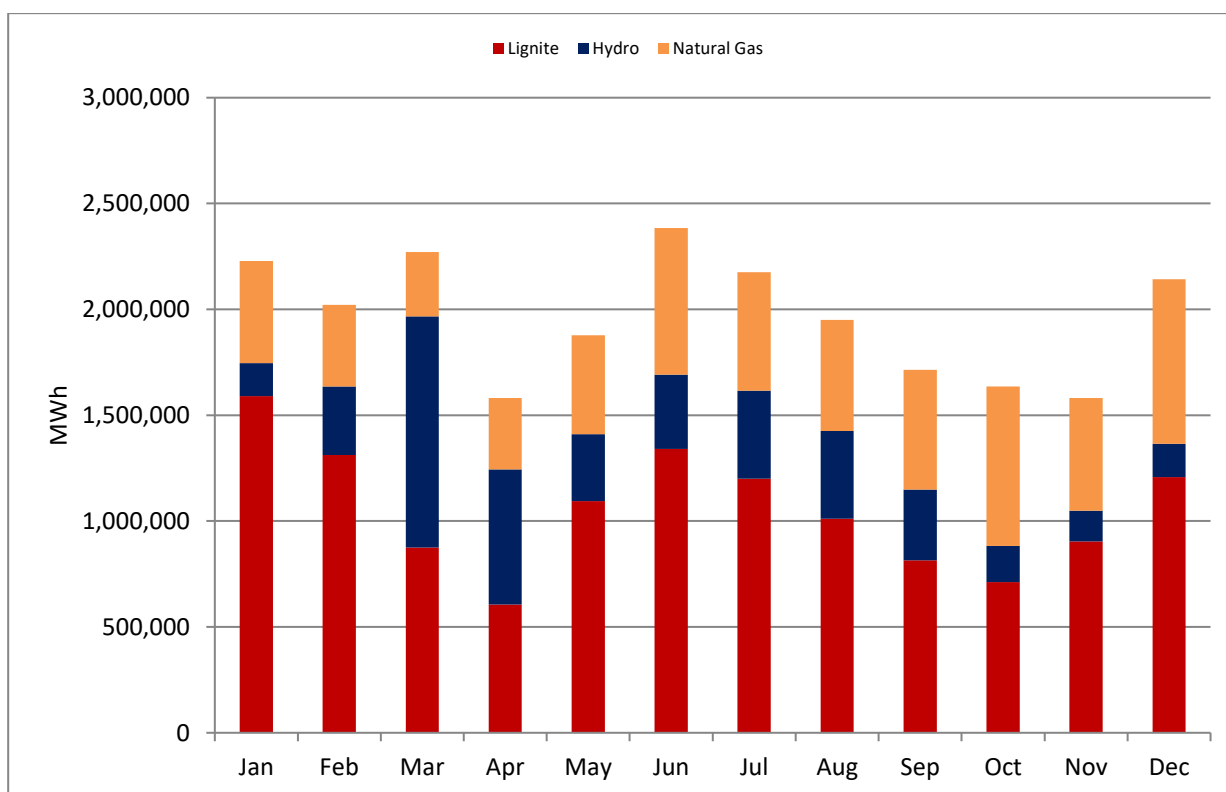


Figure 15: Monthly production of PPC units per fuel type

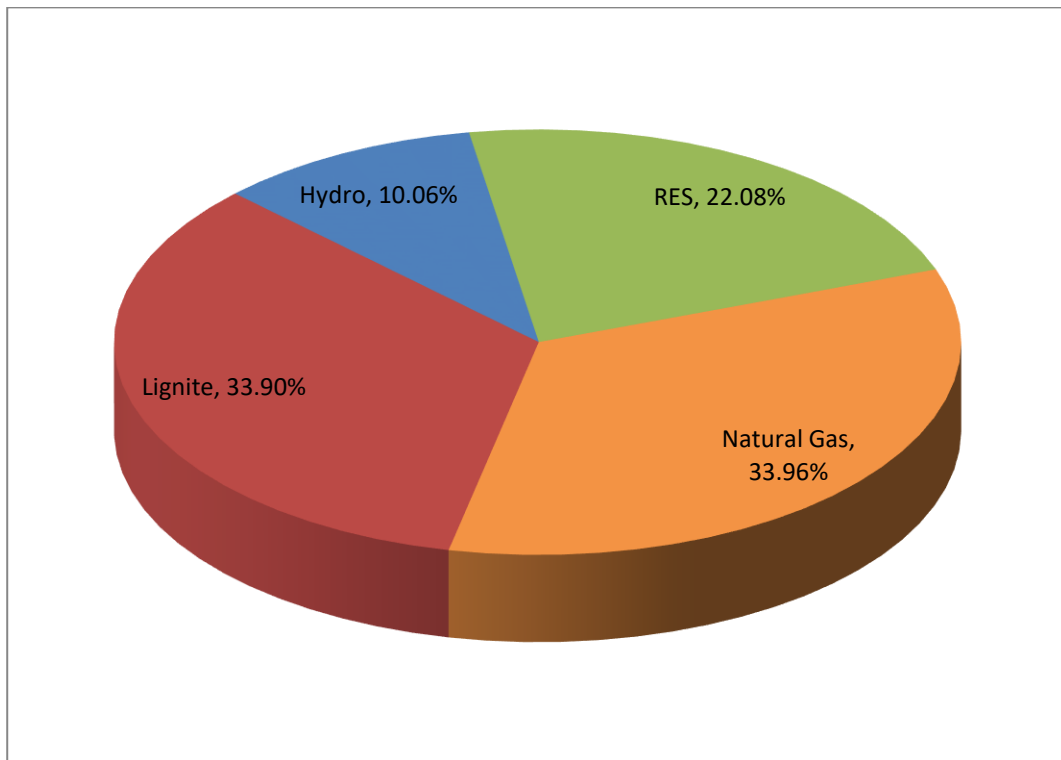


Figure 16: Percentage (%) of total Yearly Production per fuel type

4.2 Production and Credits per Participant

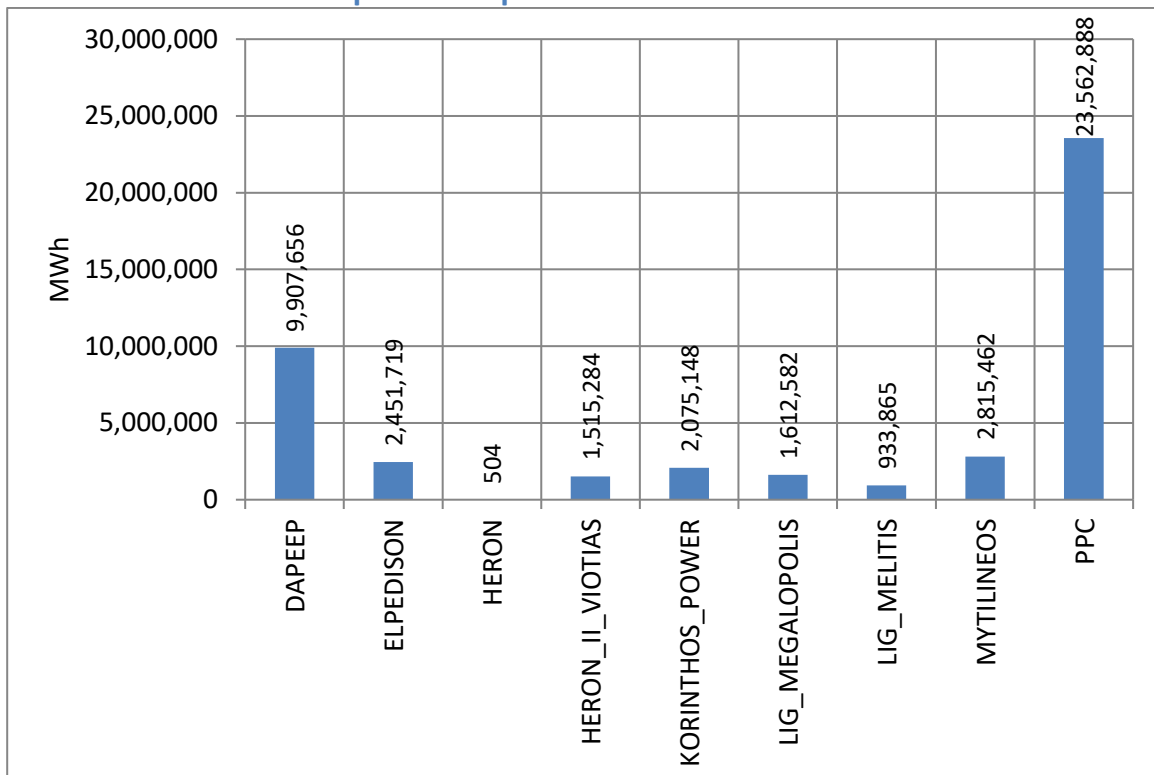


Figure 17: Yearly Production per Participant

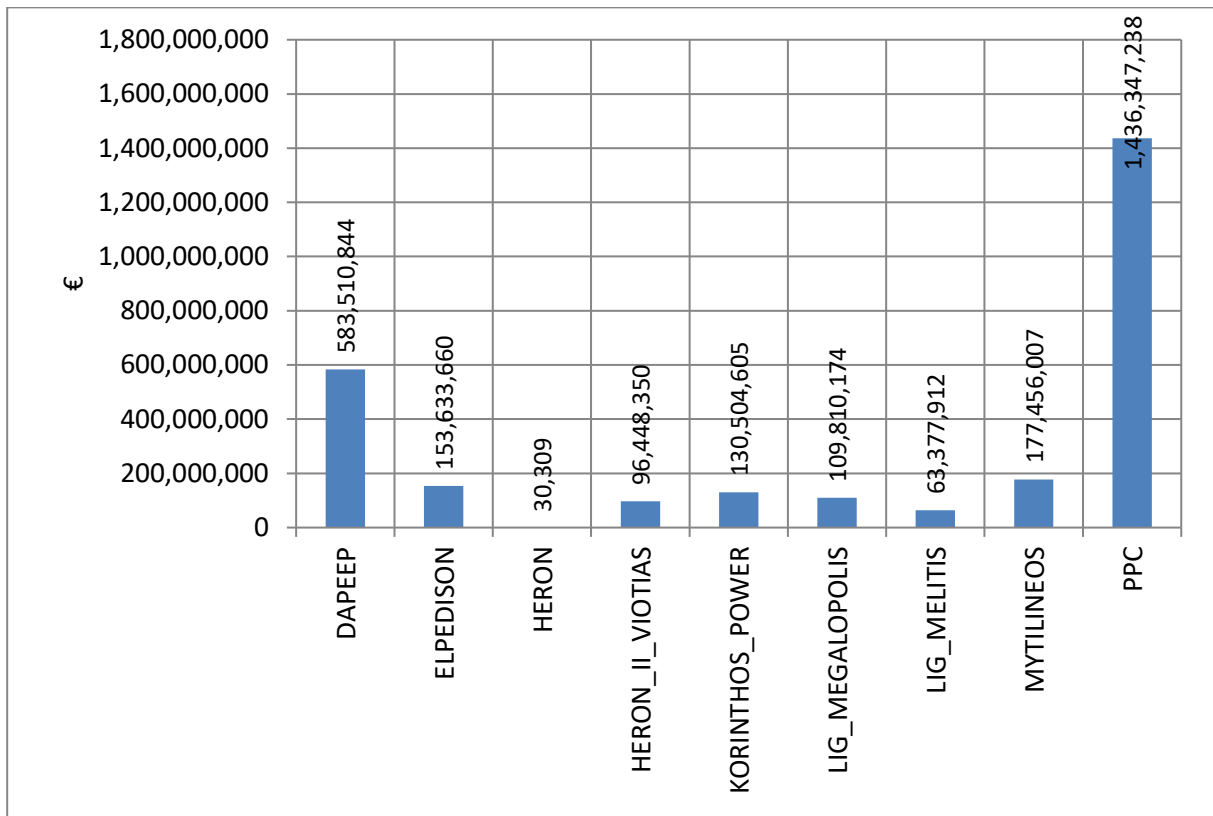


Figure 18: Yearly Production Credits per Participant

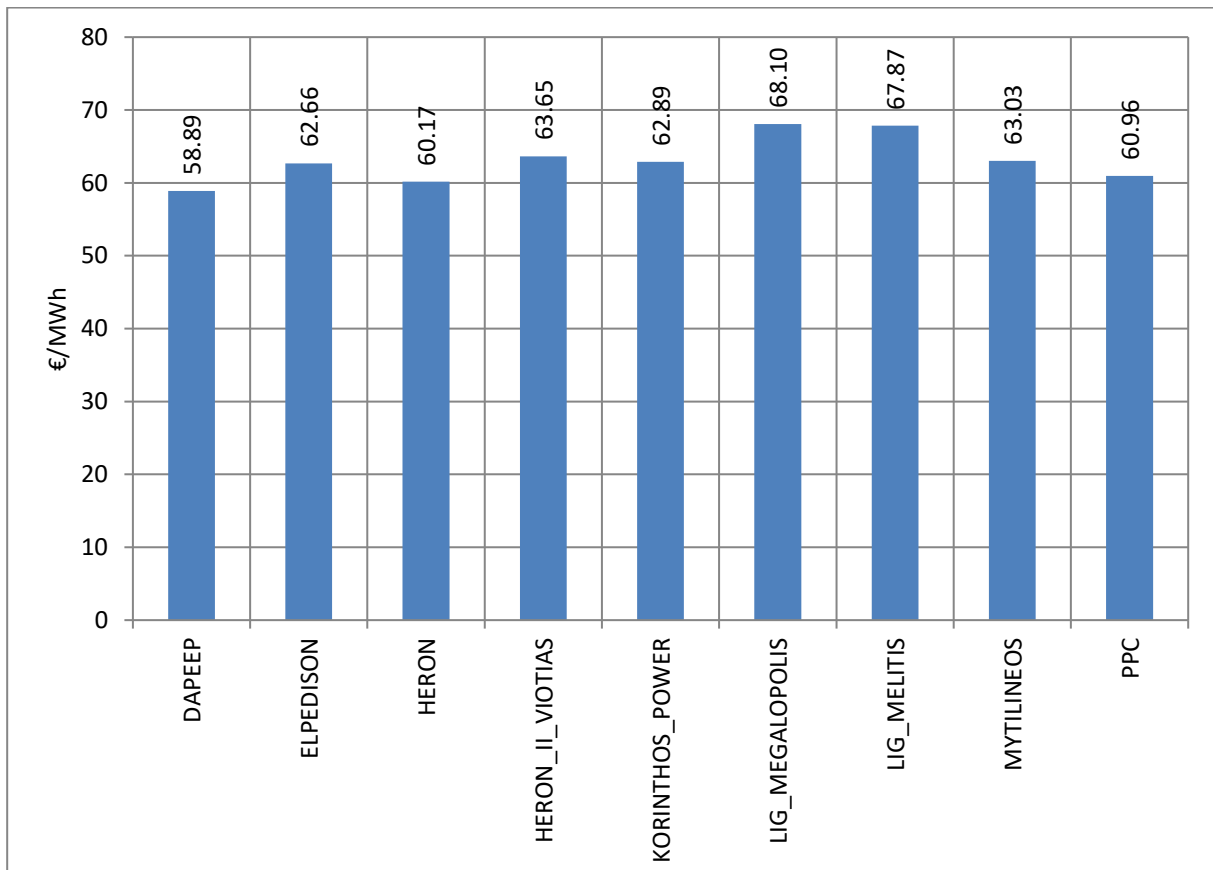


Figure 19: Yearly Credits / Yearly Production in €/MWh per Participant

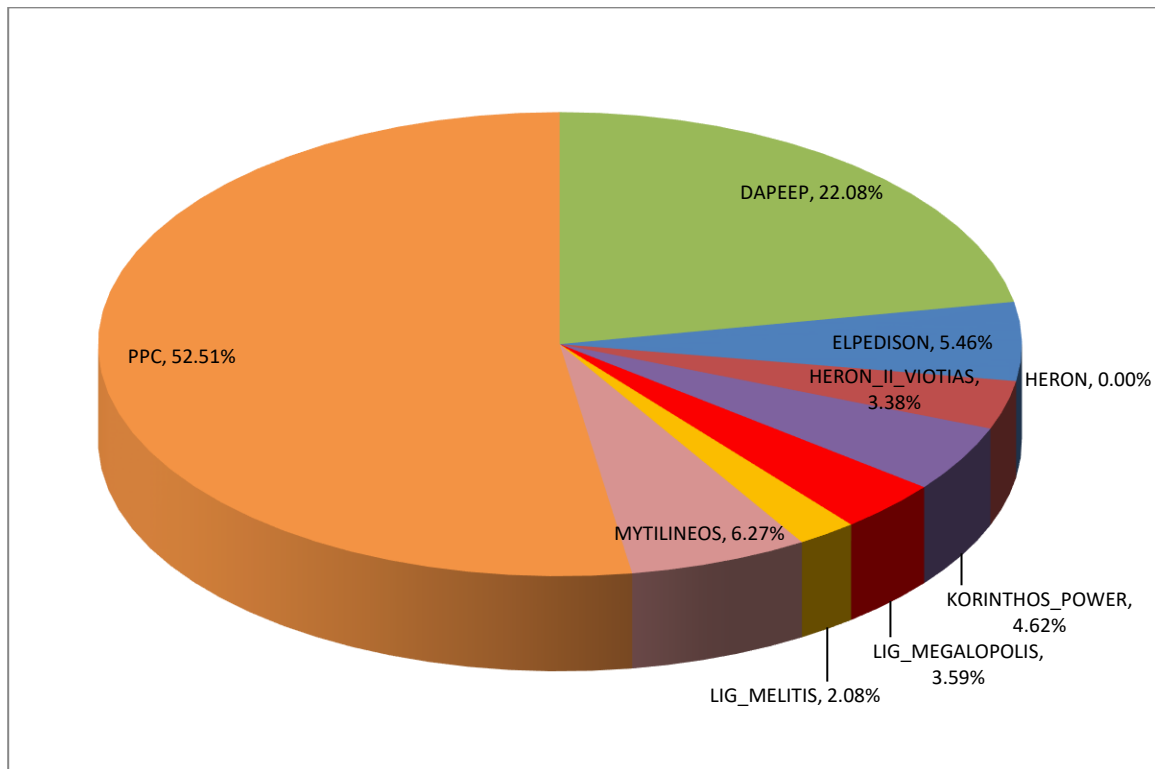


Figure 20: Percentage (%) of Total Yearly Production per Participant

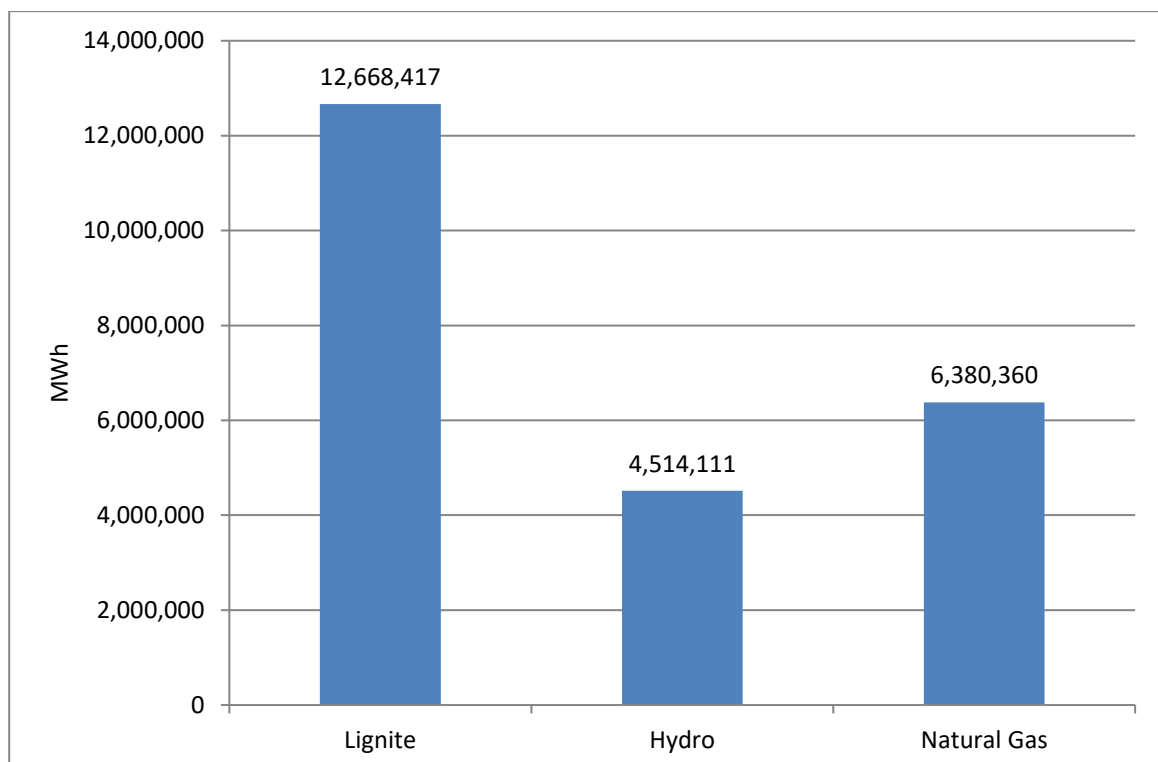


Figure 21: Yearly Production of PPC per fuel type

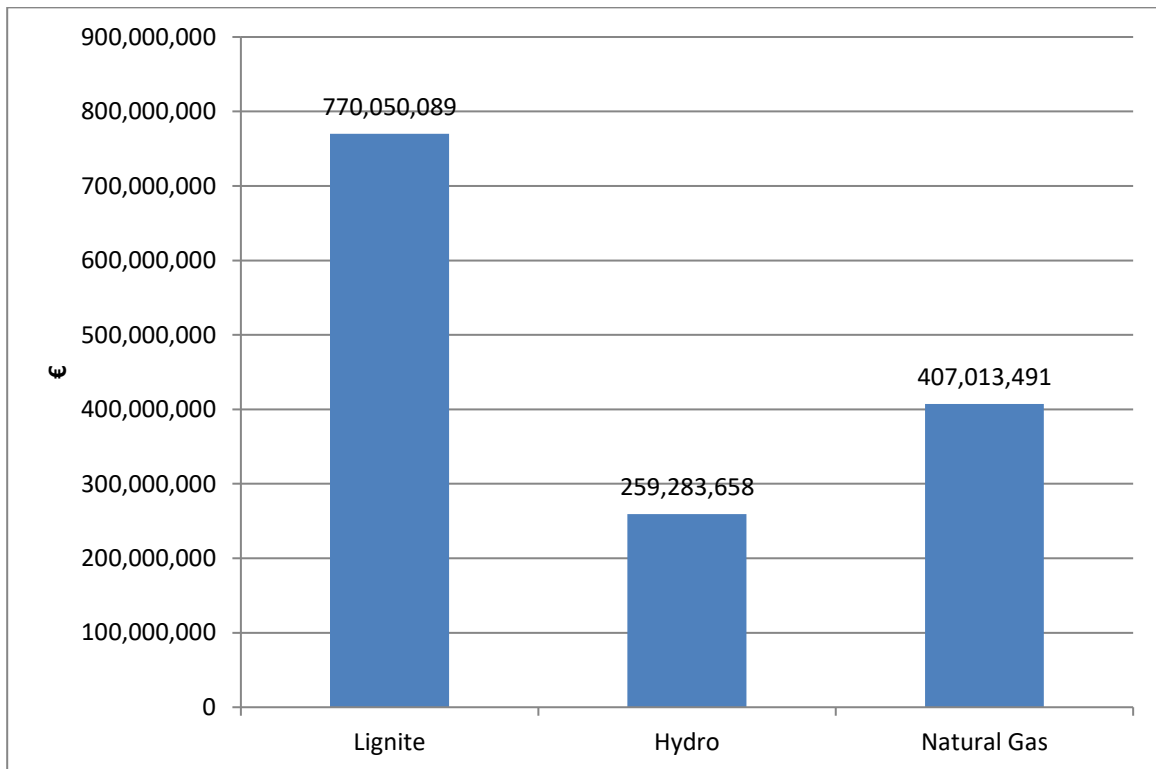


Figure 22: Yearly Credits of PPC per fuel type

4.3 Production per Participant, fuel type and operation status

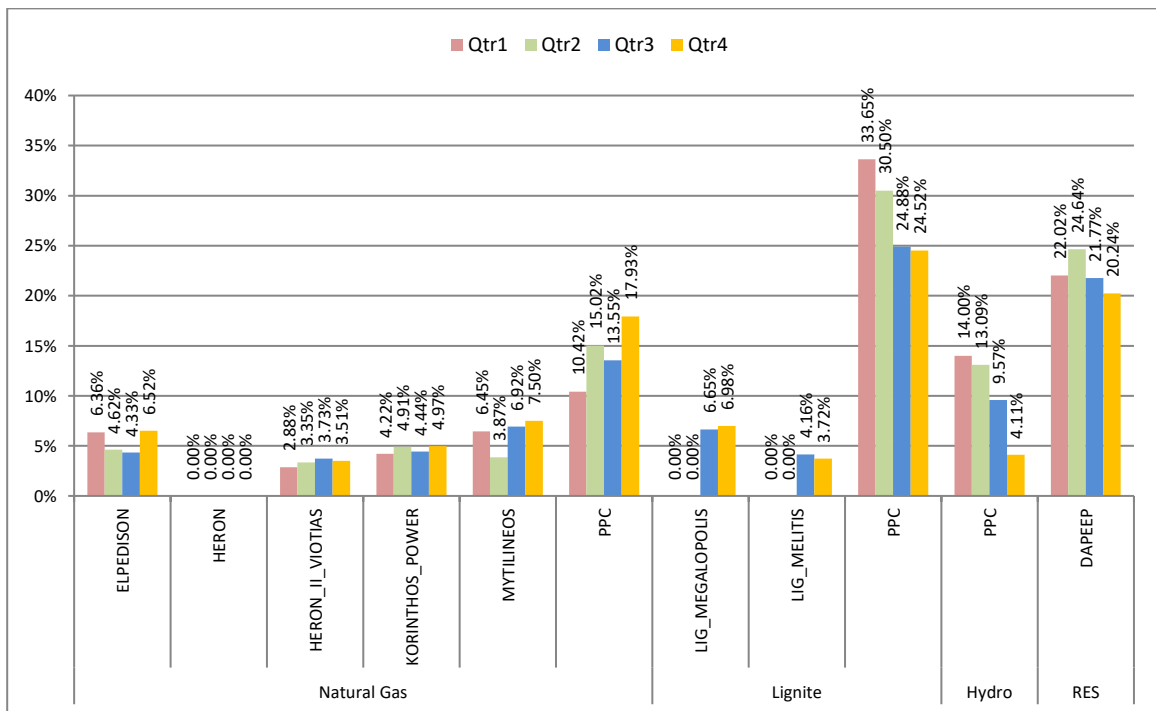


Figure 23: Percentage (%) of Total Quarter Production per Participant and fuel type for all quarters of 2018

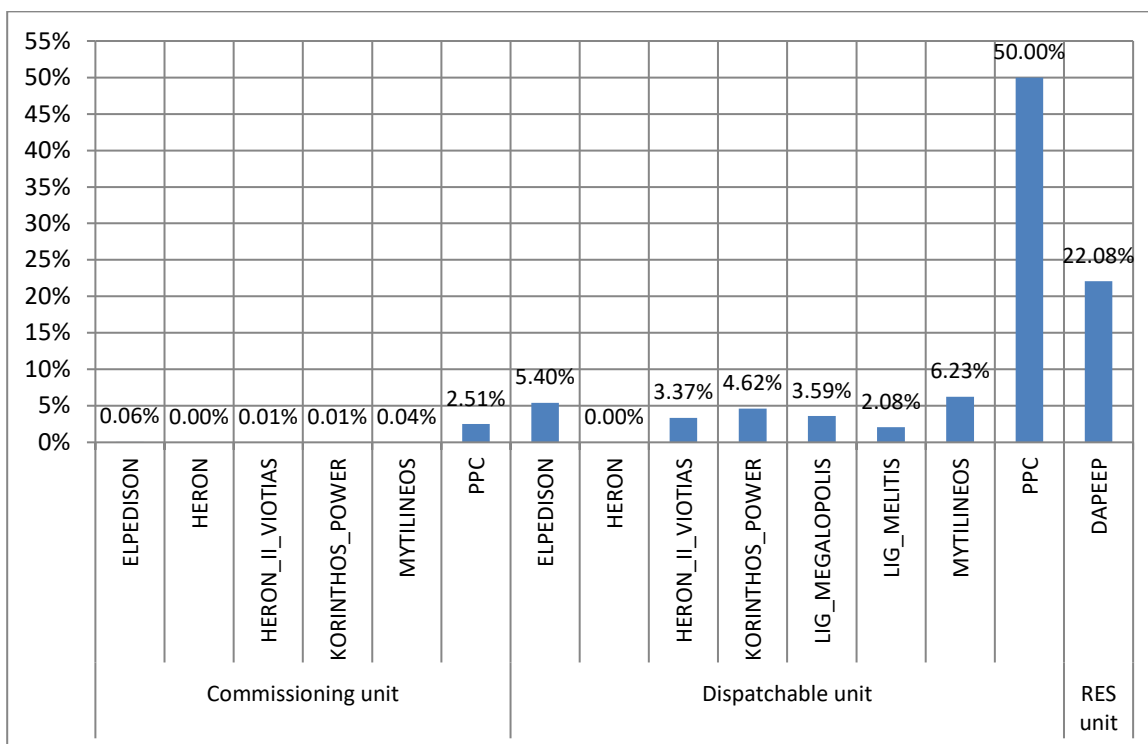


Figure 24: Percentage (%) of Total Yearly Production per Participant and operation status (testing operation, dispatchable unit, RES)

4.4 Production and Credits per Unit

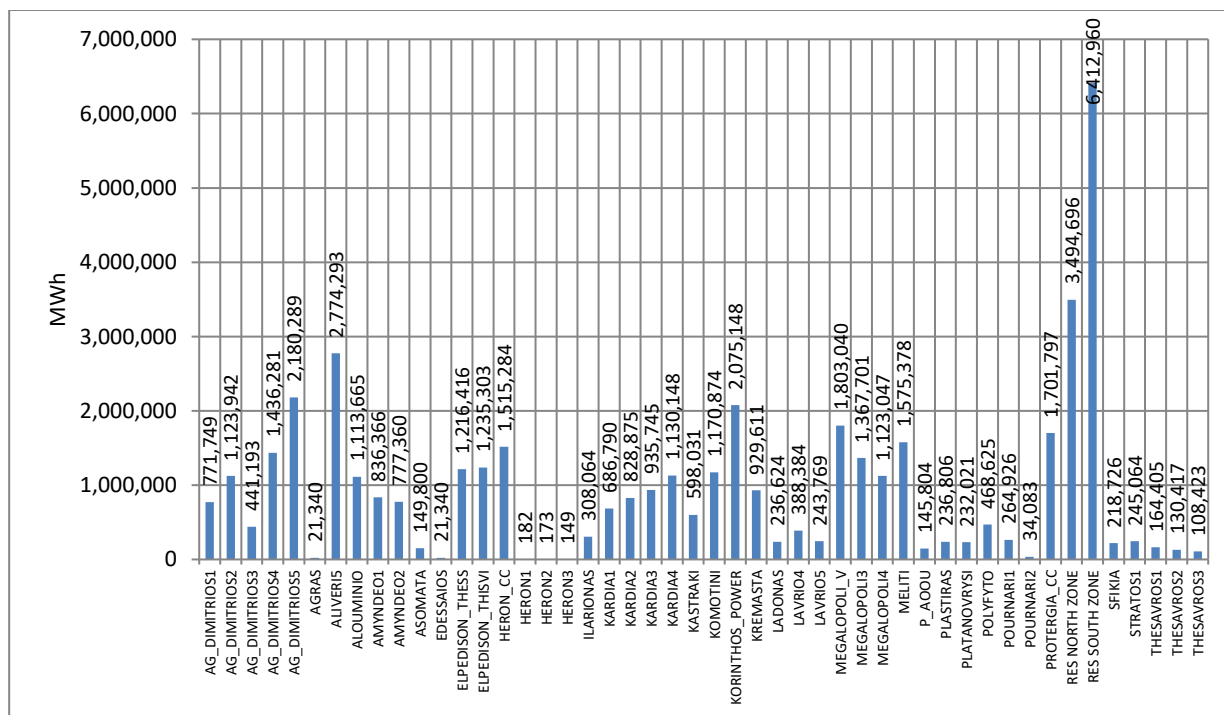


Figure 25: Yearly Energy per Unit

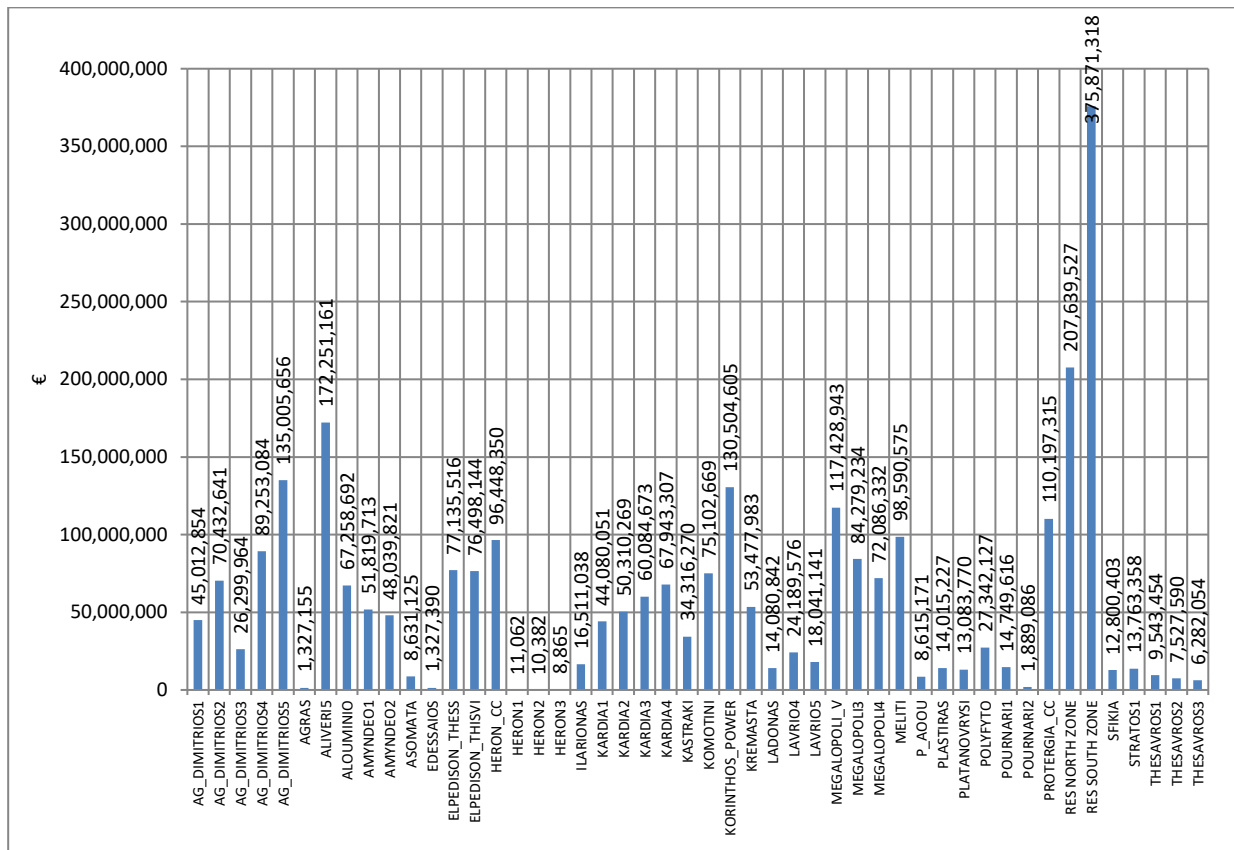


Figure 26: Yearly Credits per Unit

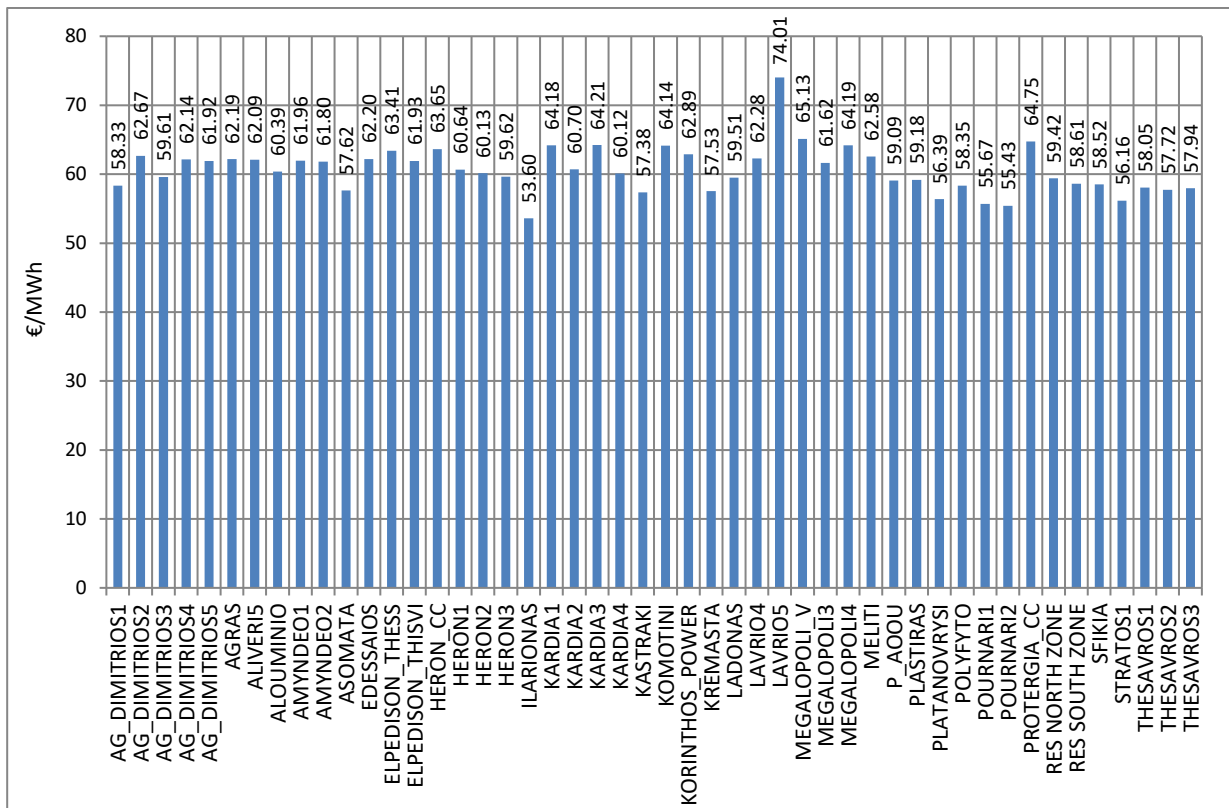


Figure 27: Yearly Credits / Yearly Production in €/MWh per Unit

5. Supply of Electricity

5.1 Load Declarations and Debits

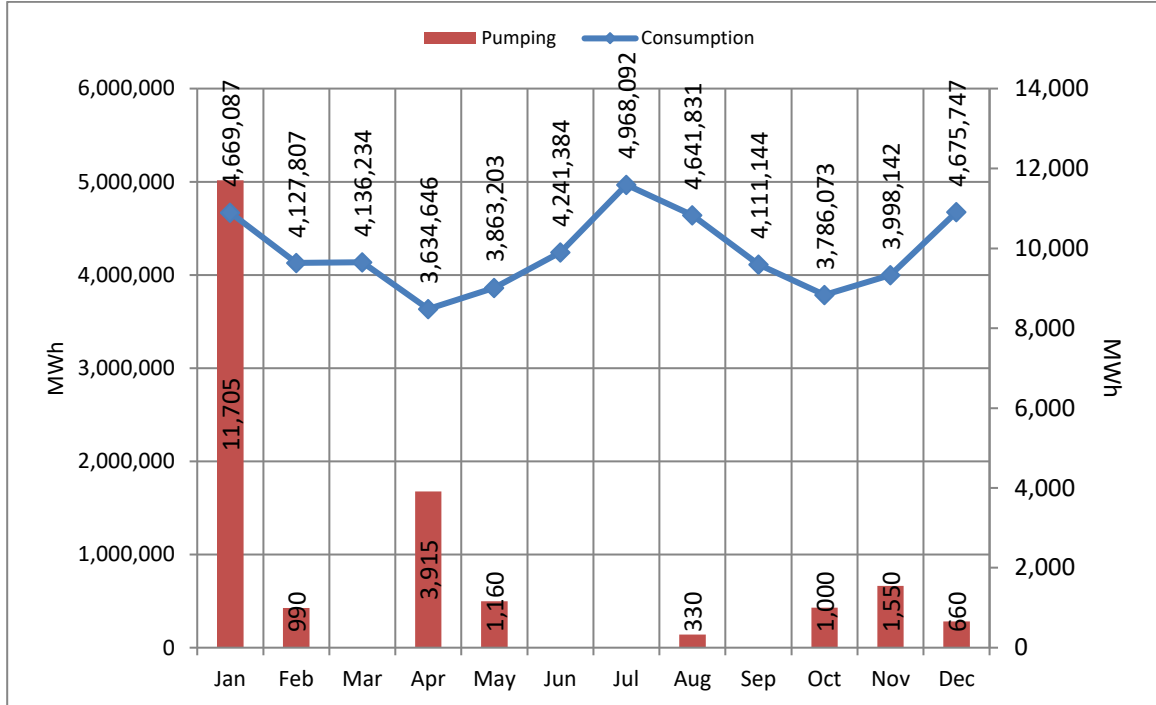


Figure 28: Monthly Load Declarations and Pumping (MWh)(right axis represents pumping operation)

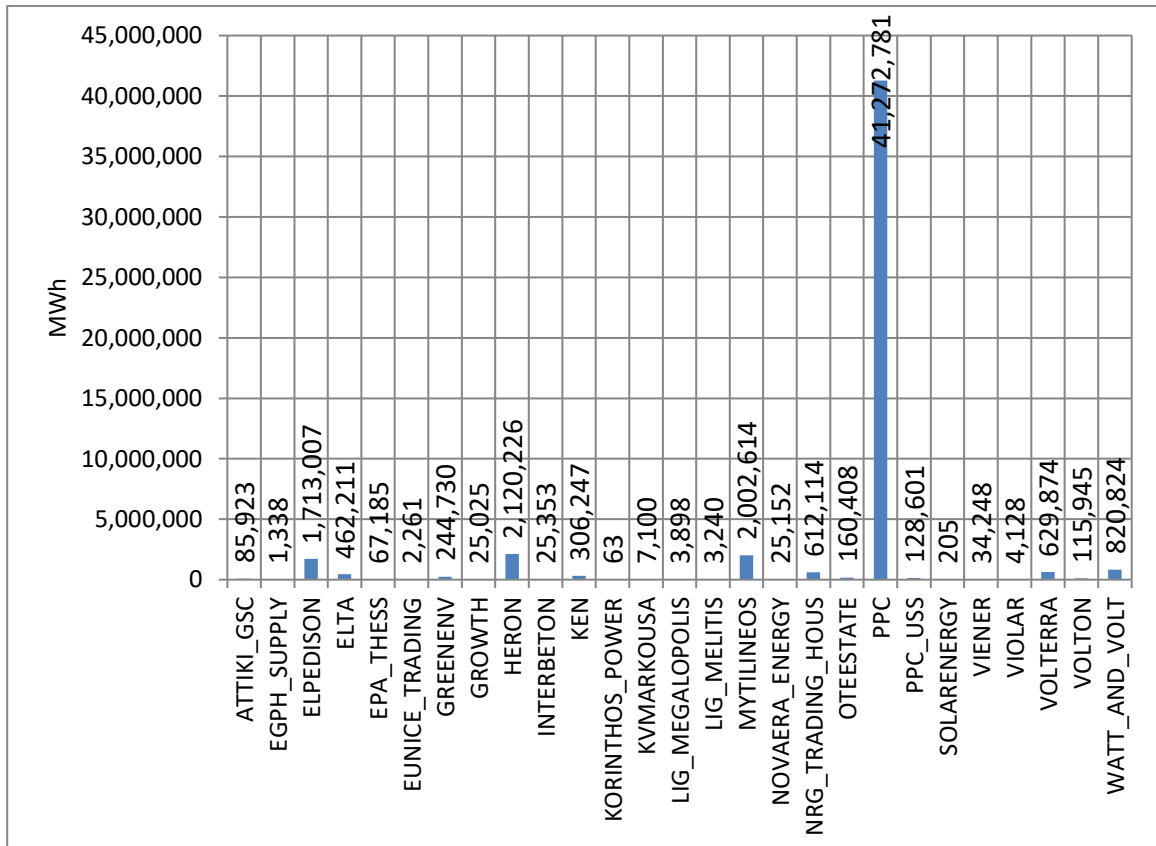


Figure 29: Yearly Supply per Participant

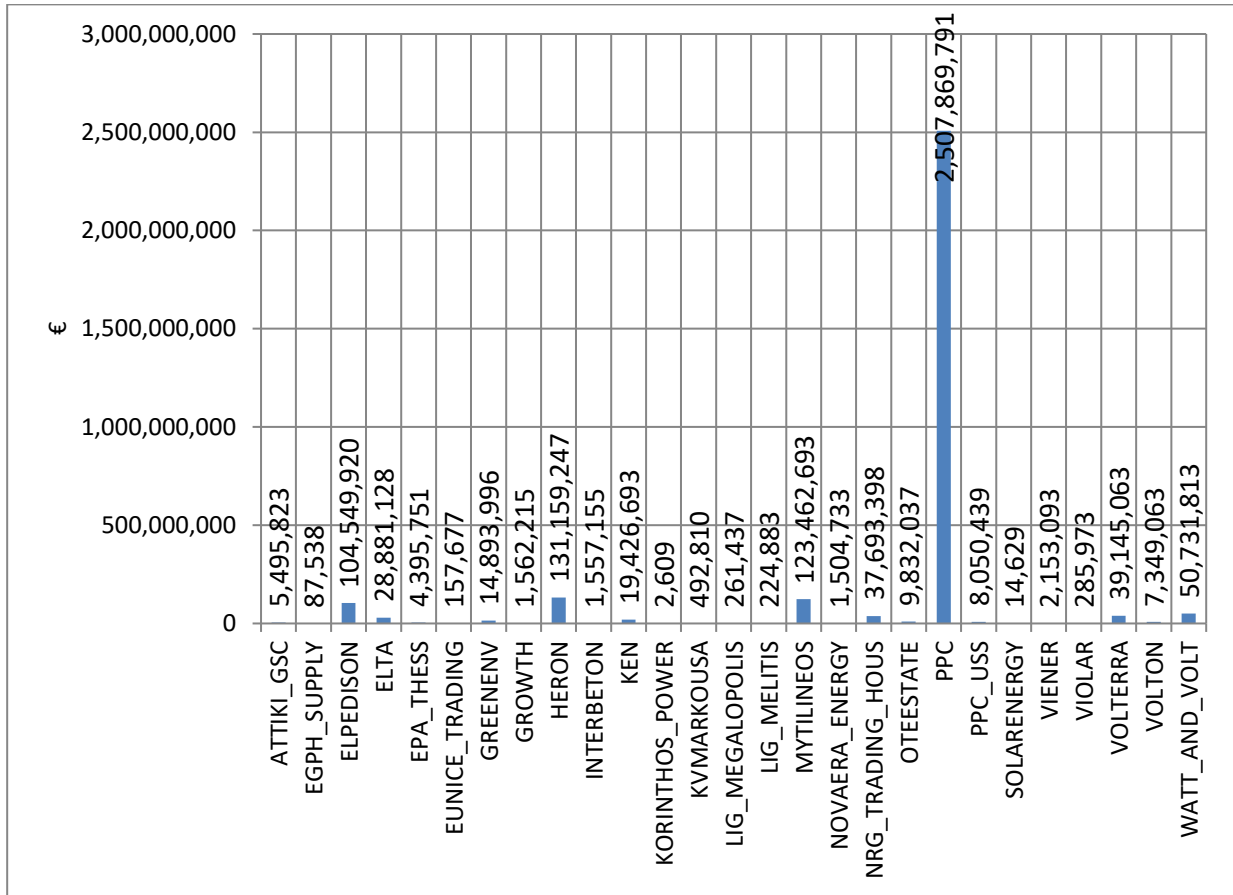


Figure 30: Yearly Supply Debits per Participant

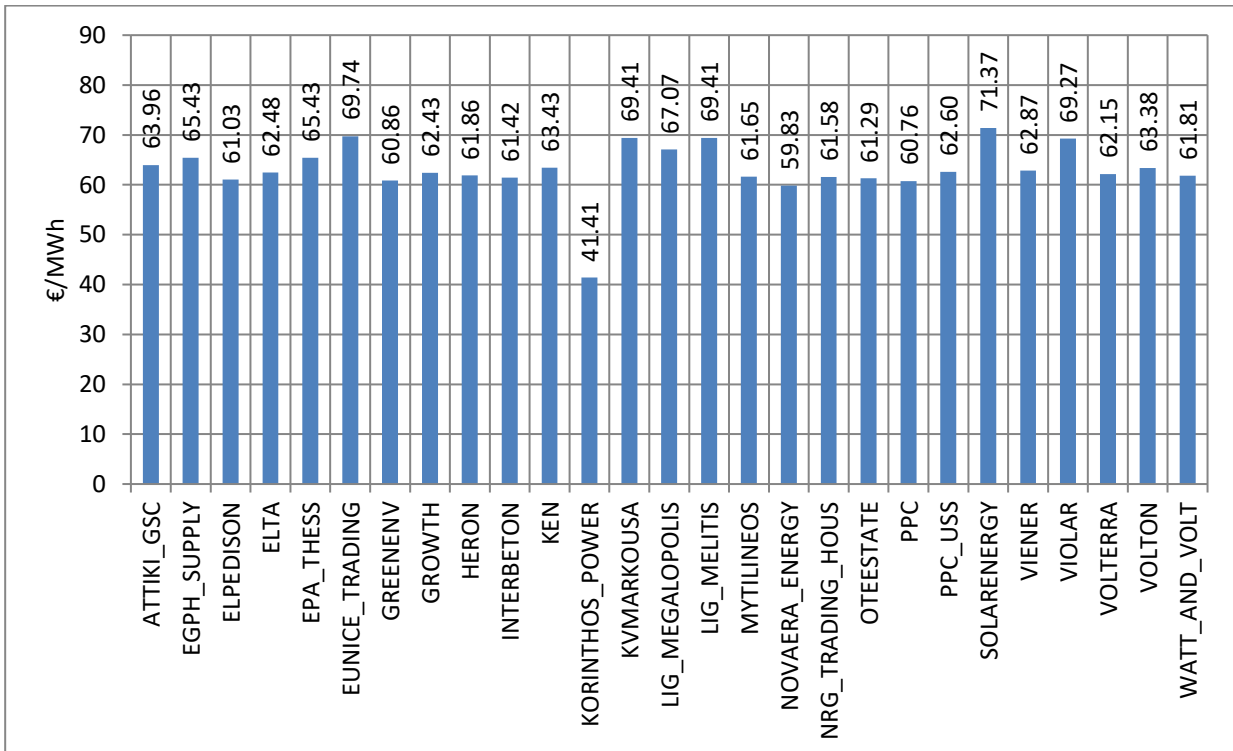


Figure 31: Yearly Debits / Yearly Supply in €/MWh per Participant

5.2 Analysis on Supply per Participant, Load Zone and Voltage Level

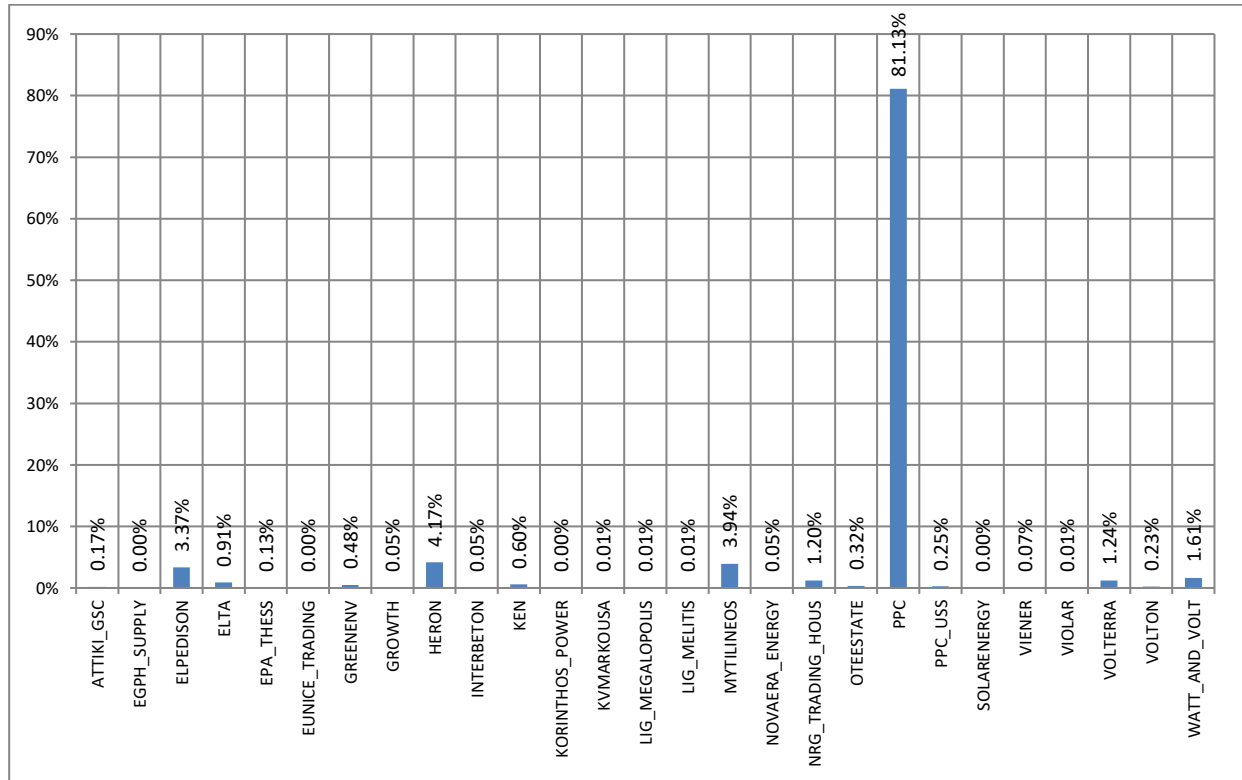


Figure 32: Percentage (%) of Total Yearly Supply per Participant.

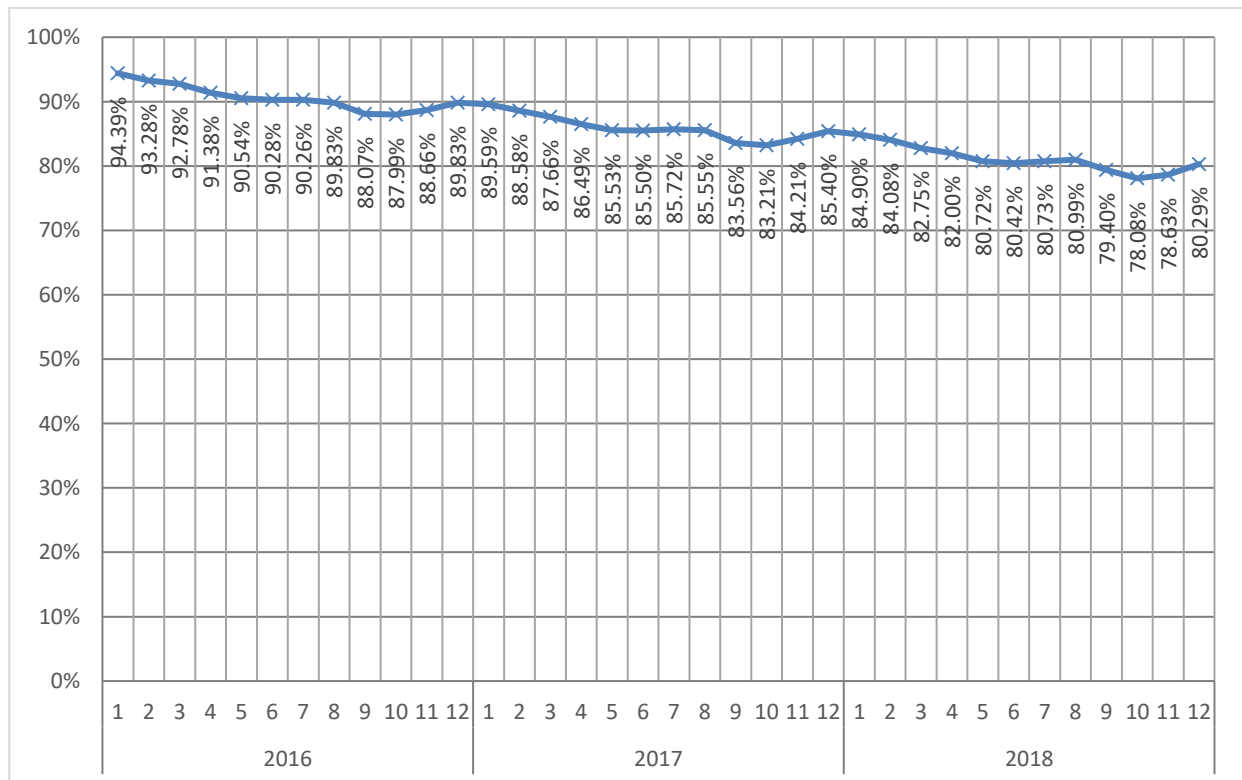


Figure 32a: Evolution of the percentage (%) of PPC in Total Monthly Supply from 2016 to 2018

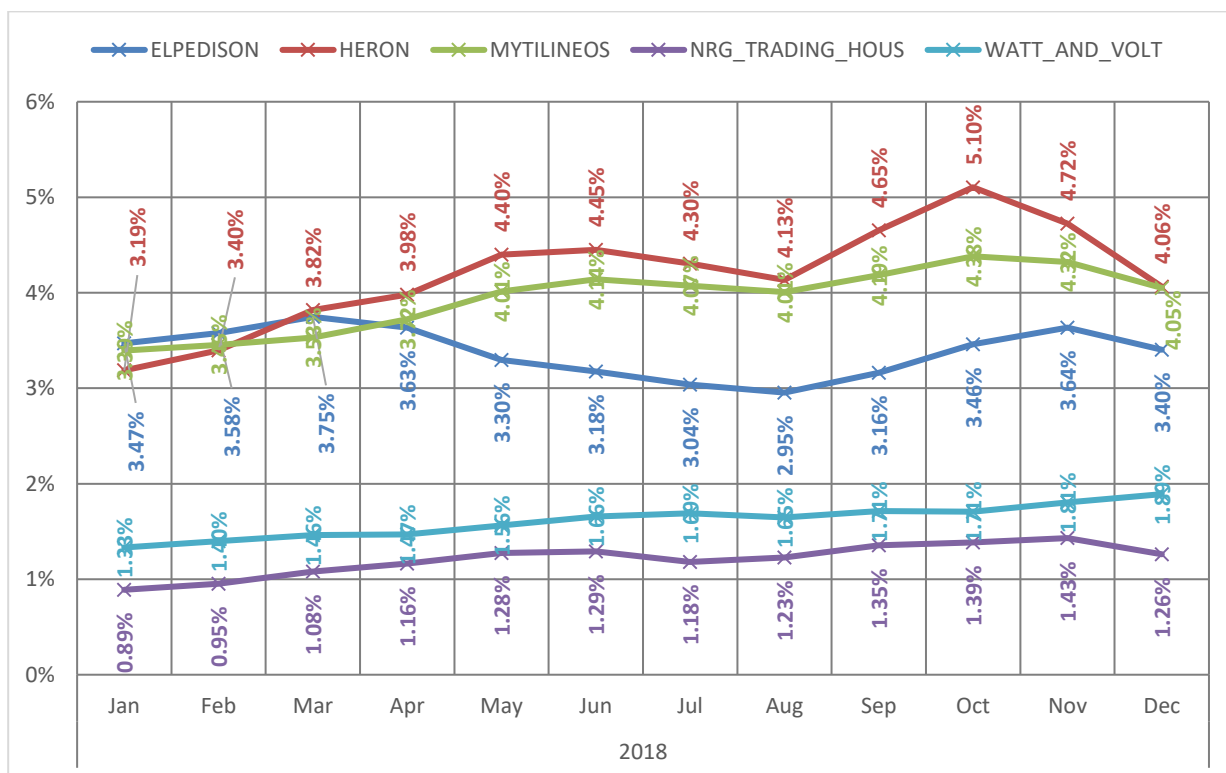


Figure 32b: Evolution of the percentage (%) of the five largest suppliers (PPC excluded) in Total Monthly Supply (as ranked in December 2018)

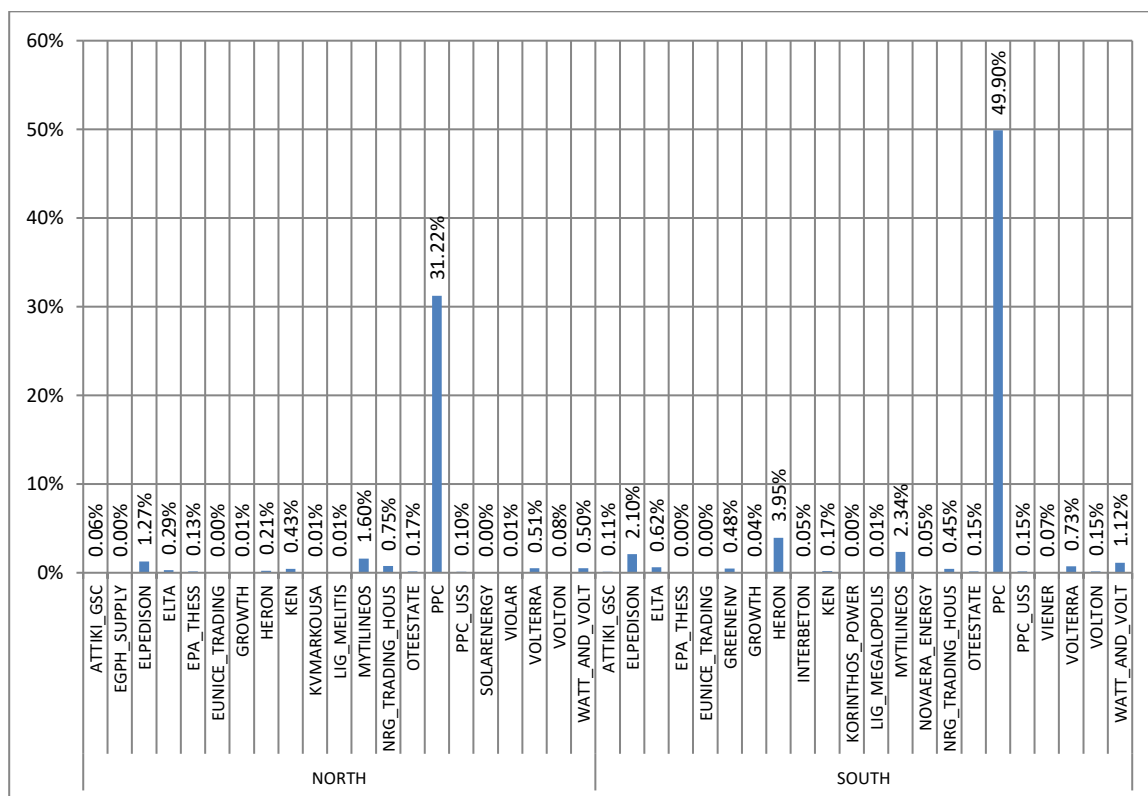


Figure 33: Percentage (%) of Total Yearly Supply per Participant and Zone

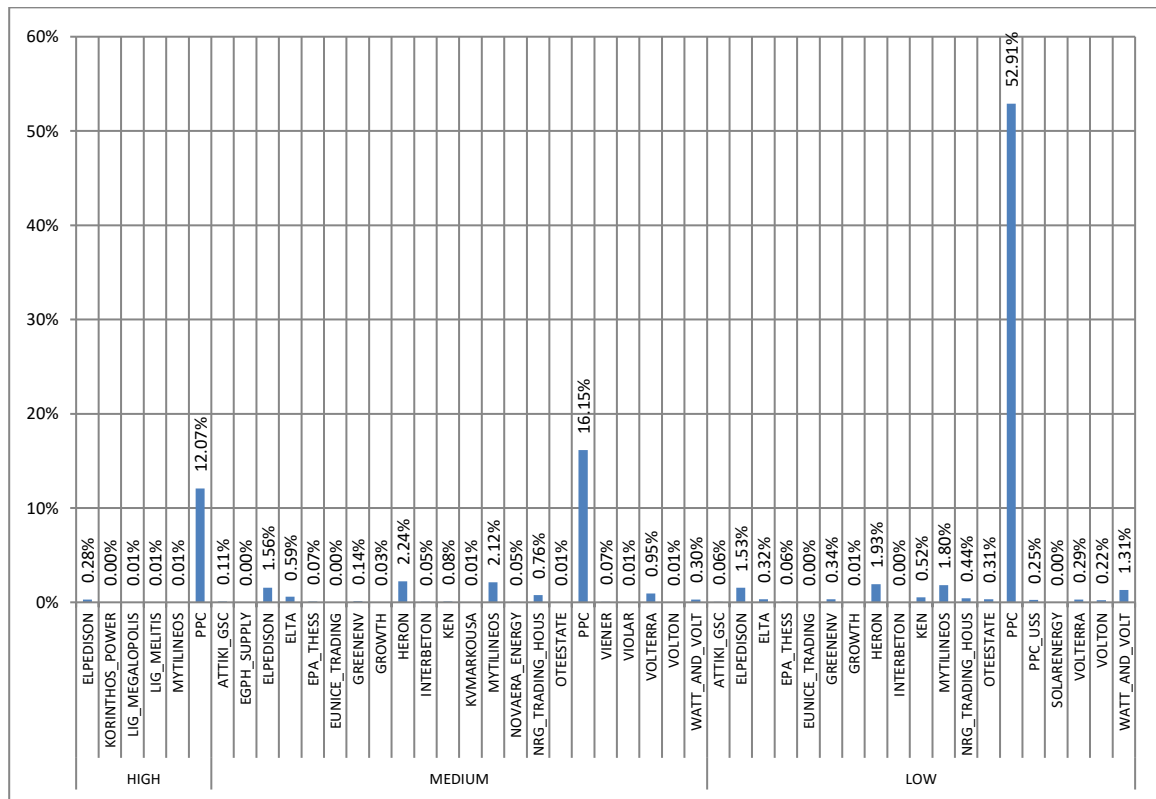


Figure 34: Percentage (%) of Total Yearly Supply per Participant and Voltage Level

6. Electricity Trading

6.1 Imports

	Total	Albania	Bulgaria	Italy	F.Y.R.O.M.	Turkey
Daily Average Imports	30,074	5,305	10,409	4,462	7,955	1,943
Monthly Average Imports	914,738	161,363	316,594	135,722	241,974	59,085
Total Yearly Imports	10,976,858	1,936,354	3,799,122	1,628,667	2,903,692	709,022

Table 4: Daily Average, Monthly Average and Total Yearly Imports per Interconnection (MWh)

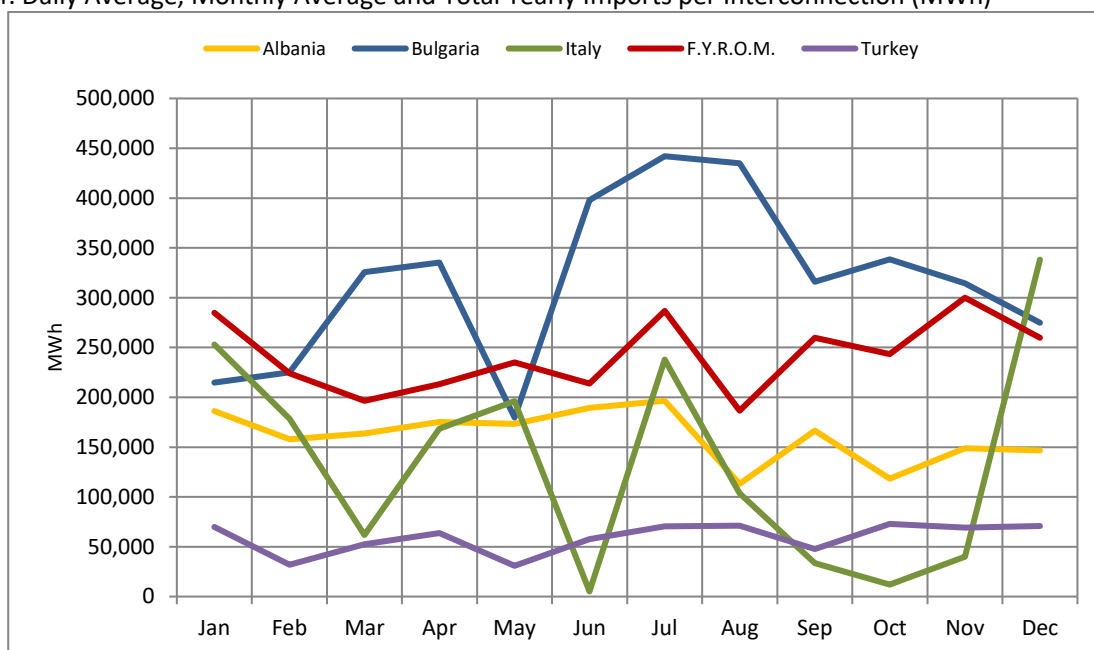


Figure 35: Monthly Imports per Interconnection

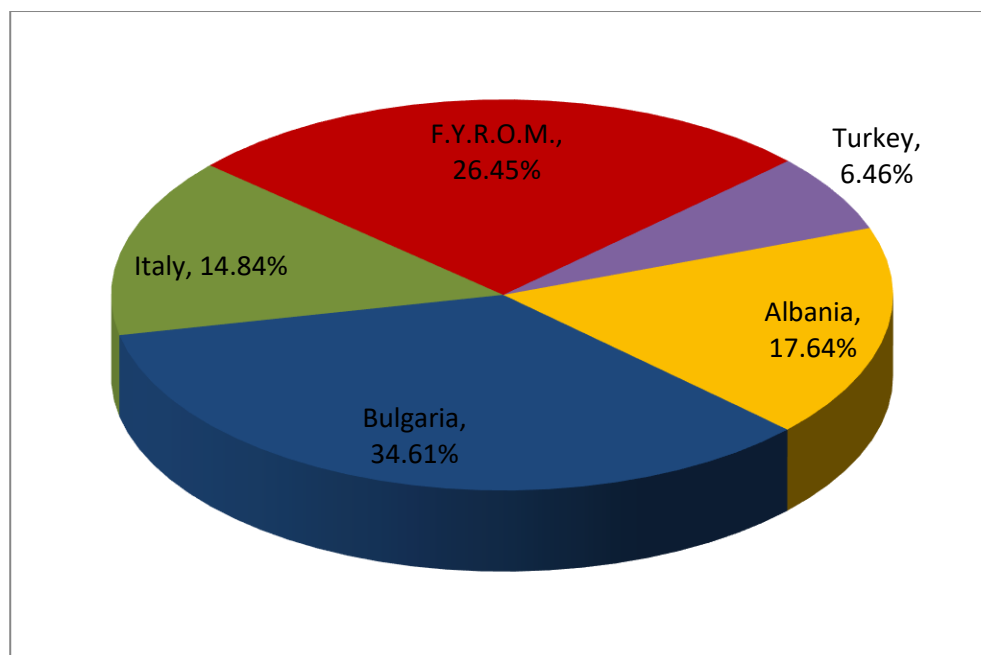


Figure 36: Percentage (%) of Yearly Imports per Interconnection

6.2 Exports

	Total	Albania	Bulgaria	Italy	F.Y.R.O.M.	Turkey
Daily Average Exports	13,636	2,762	604	5,848	4,363	60
Monthly Average Exports	414,772	83,996	18,382	177,865	132,717	1,812
Total Yearly Exports	4,977,265	1,007,954	220,583	2,134,381	1,592,601	21,745

Table 4: Daily Average, Monthly Average and Total Yearly Exports per Interconnection (MWh)

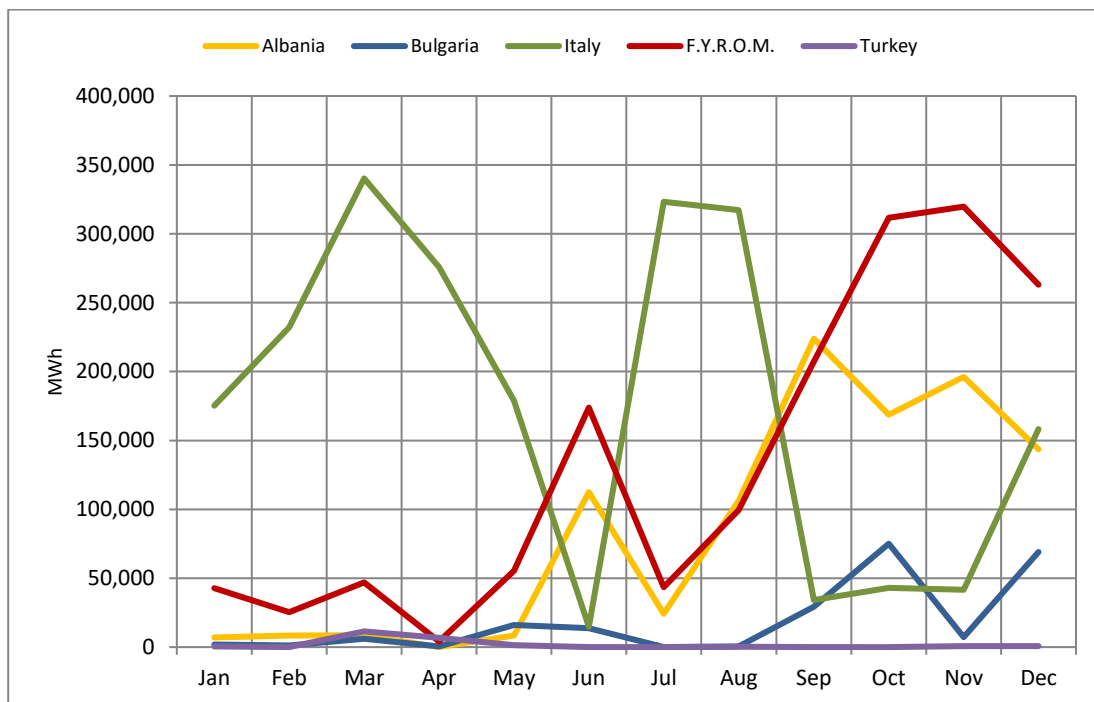


Figure 37: Monthly Exports per Interconnection (MWh)

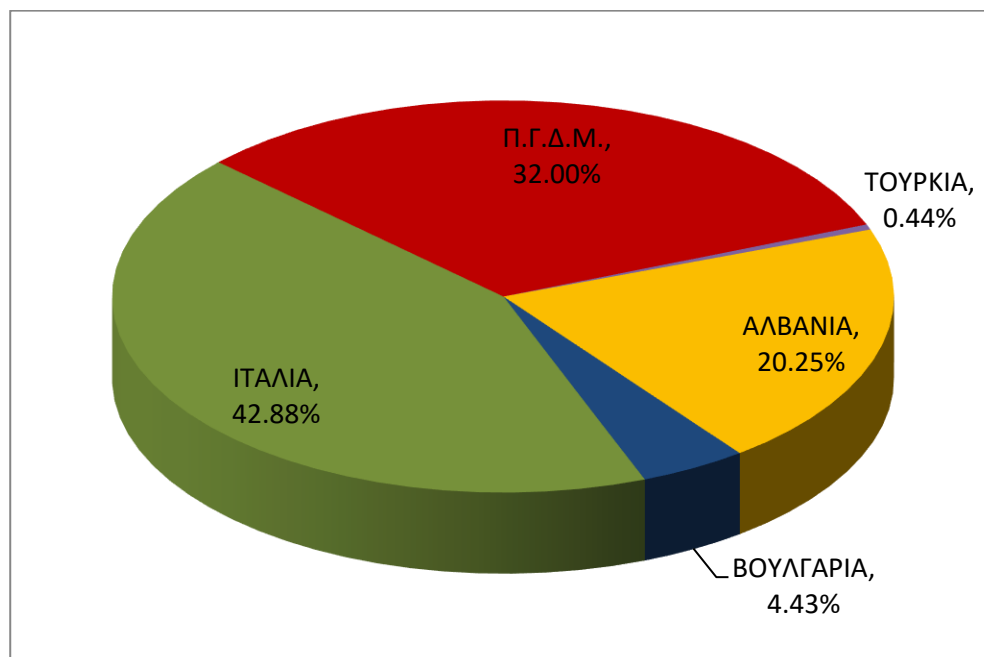


Figure 38: Percentage (%) of Yearly Electricity Exports per Interconnection

6.3 Electricity Transit

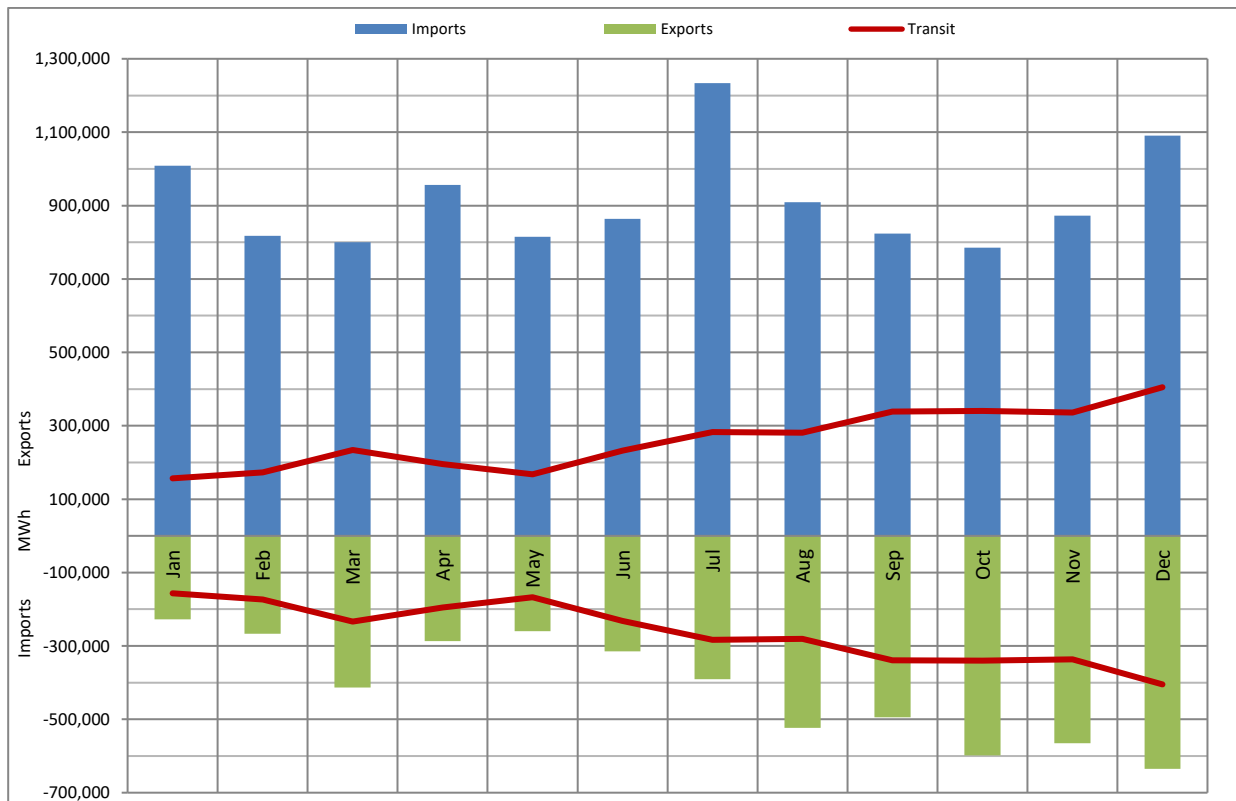


Figure 39: Monthly Transit*

* Energy Transit shall mean the concurrent, namely during the same Dispatch Period, Import and Export of energy by the same participant, regardless of the capacity in which such Participant carries out such concurrent Import and Export. The energy quantity transited by a Participant during a Dispatch Period shall be calculated as the minimum between the absolute value of all Imports and the absolute value of all Exports performed by such Participant in the same Dispatch Period.

Source: Power Exchange Code for Electricity, Article 81

6.4 Net Position of Interconnections Balance

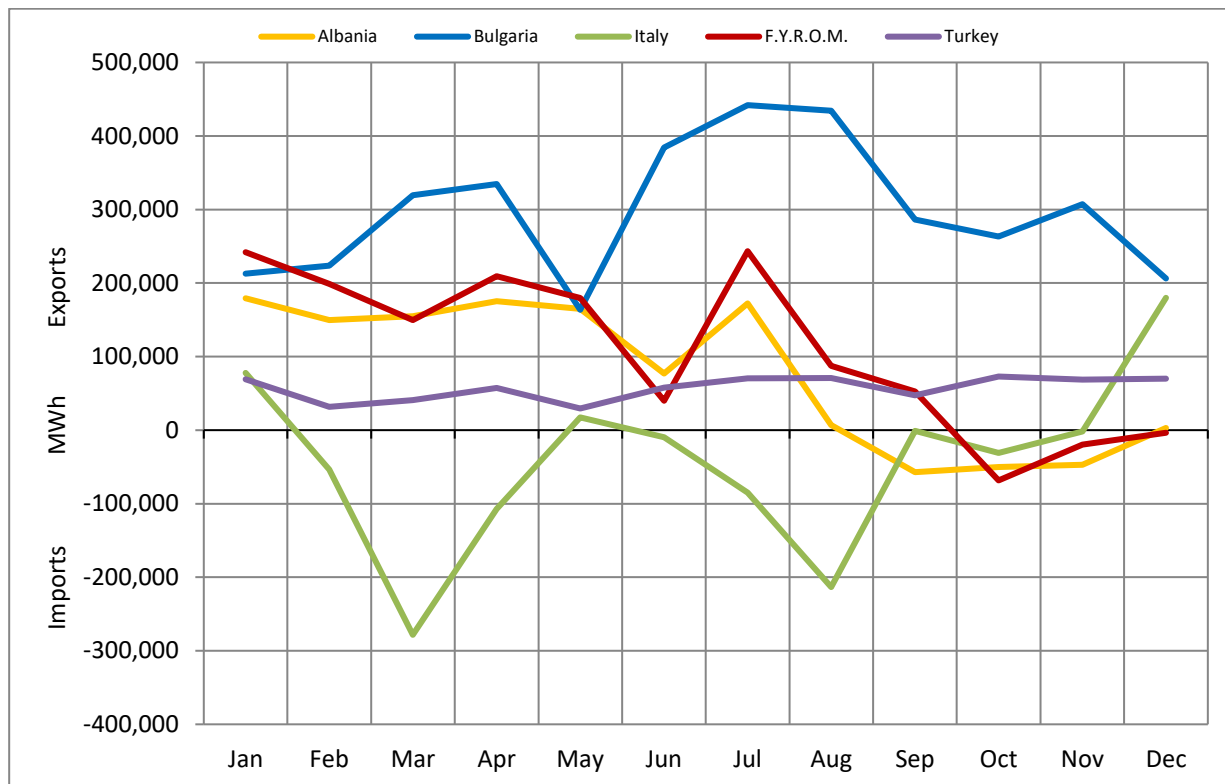


Figure 40: Monthly Net Position of Interconnections (Imports-Exports), (positive values: more Imports, negative values: more Exports)

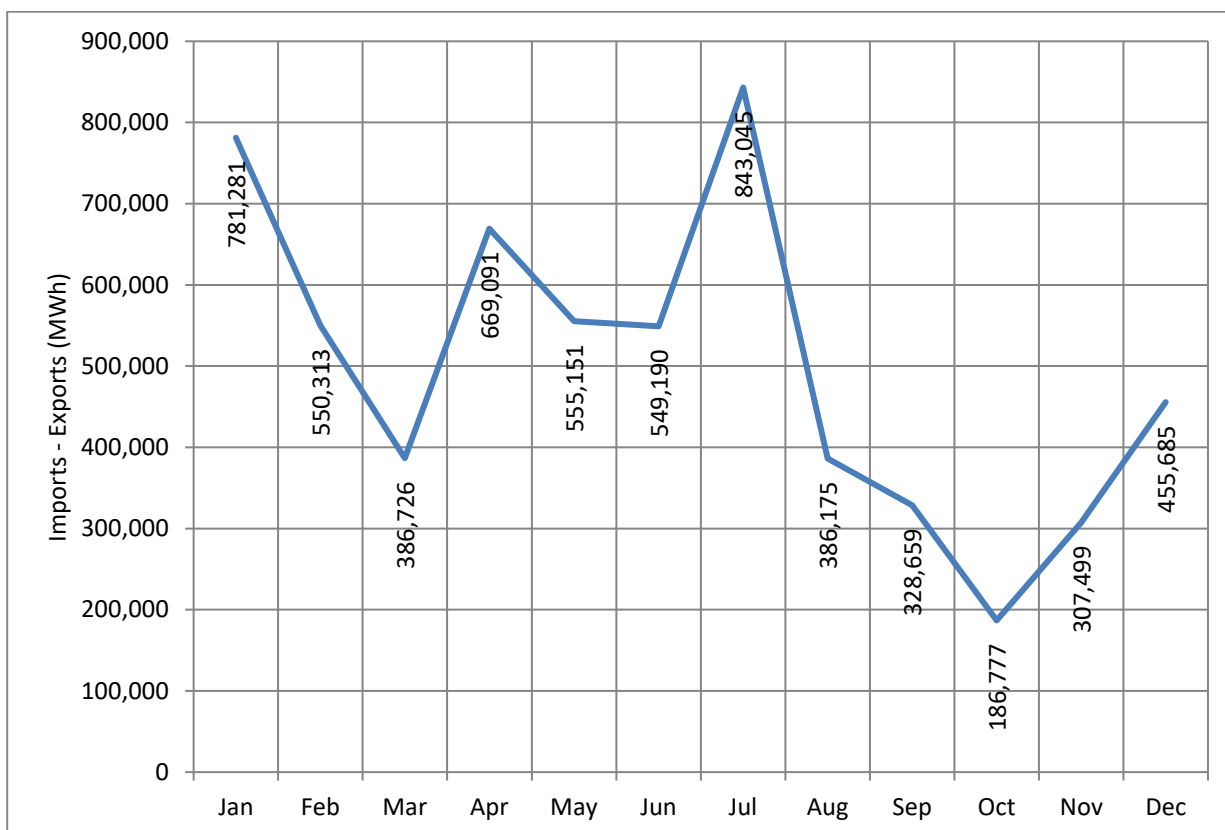


Figure 41: Monthly Net Position of all Interconnections (Imports - Exports)

6.5 Analysis on Trading per Participant and Interconnection

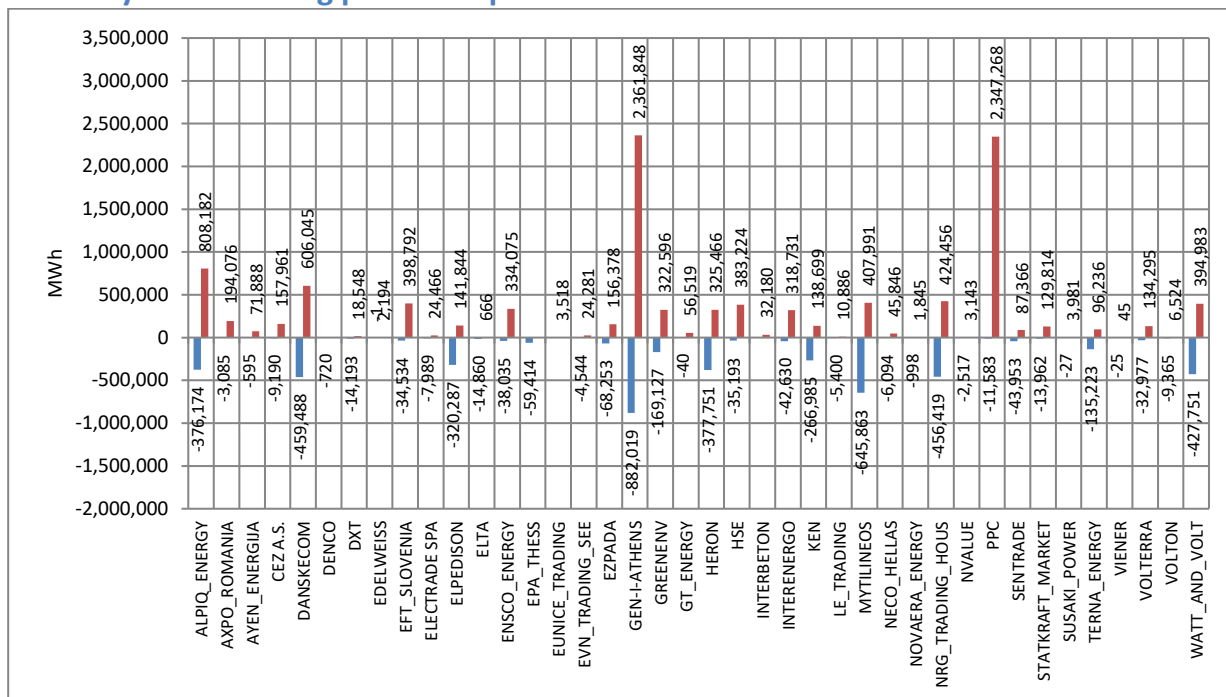


Figure 42: Yearly Trading per Participant and activity (positive values: Imports, negative values: Exports)

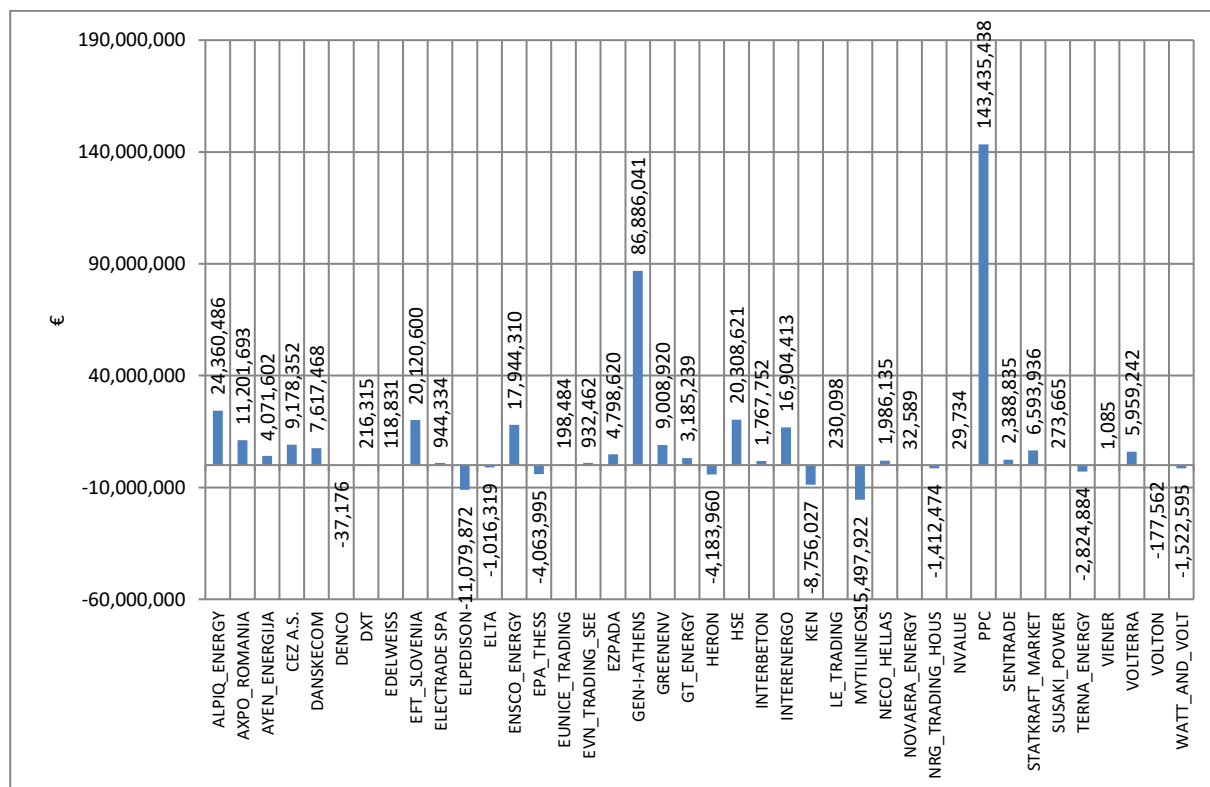


Figure 43: Yearly Trading Credits/Debits per Participant (positive values: Credits, negative values: Debits)