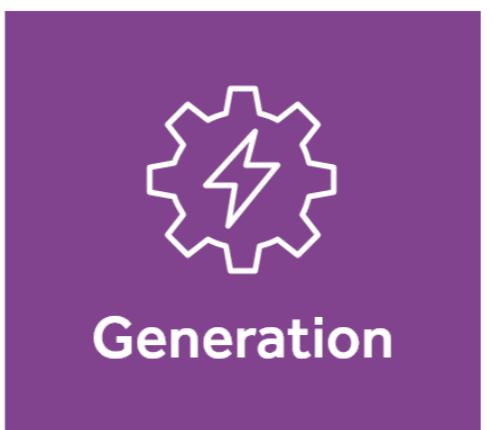
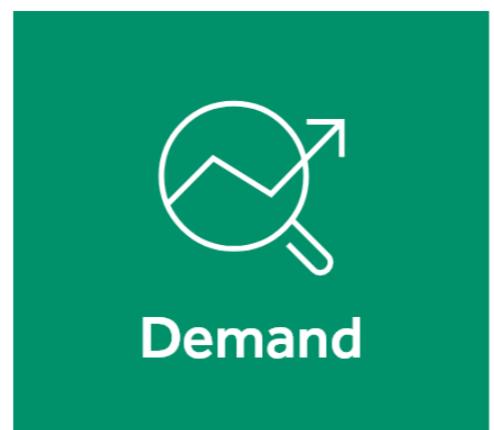
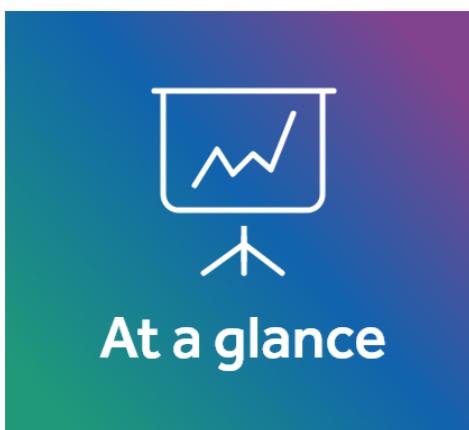


# MONTHLY ENERGY BULLETIN

September 2022 - 2nd Edition



01

02

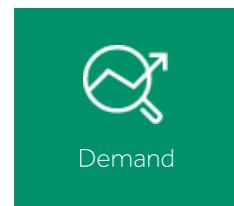
03

10

17

19

## The Month at a glance

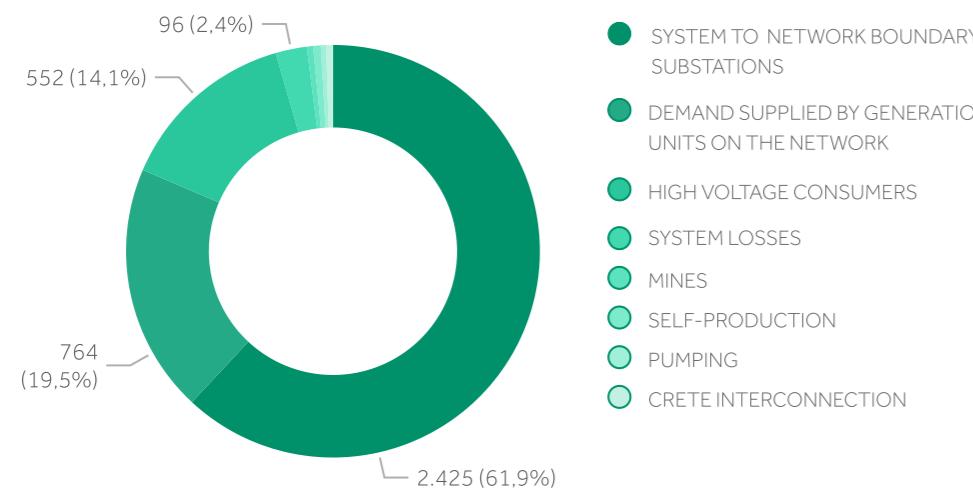


Total Demand  
**3.916 GWh**

↓ 4,89%

Variation in comparison  
to the same month of  
the previous year

### Estimation of total demand (GWh)

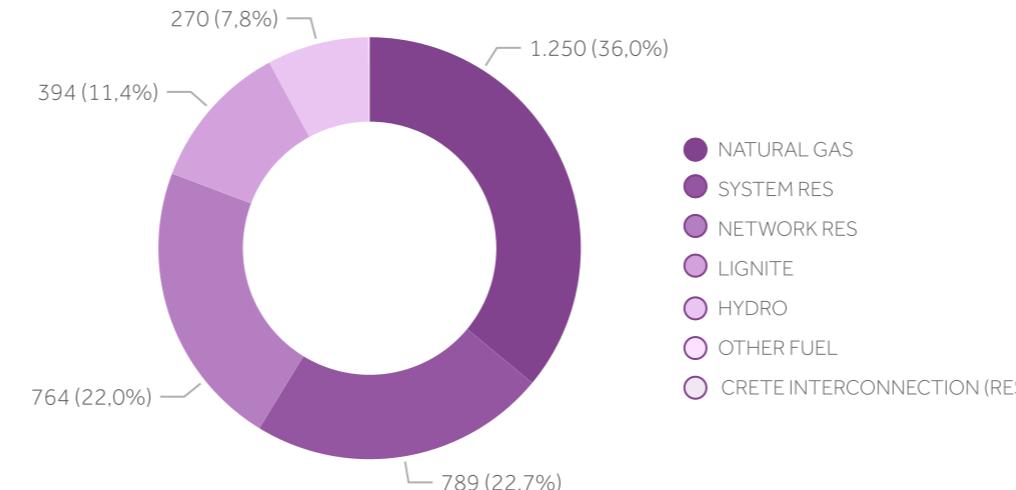


Total Generation  
**3.470 GWh**

↓ 13,42%

Variation in comparison  
to the same month of  
the previous year

### Estimation of total generation (GWh)



Interconnection Balance  
**446 GWh**

↑ 337 GWh

Variation in comparison  
to the same month of  
the previous year

### Imports

 **730 GWh**  
 **11,07%**



### Exports

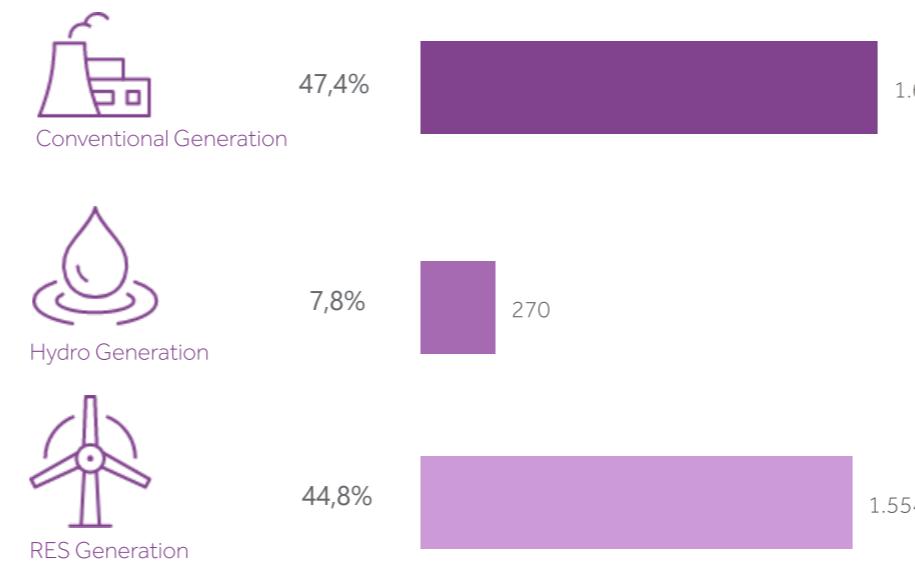
 **284 GWh**  
 **48,21%**

### Maximum total demand

 01/09/2022  14:00  
**7.574 MW**

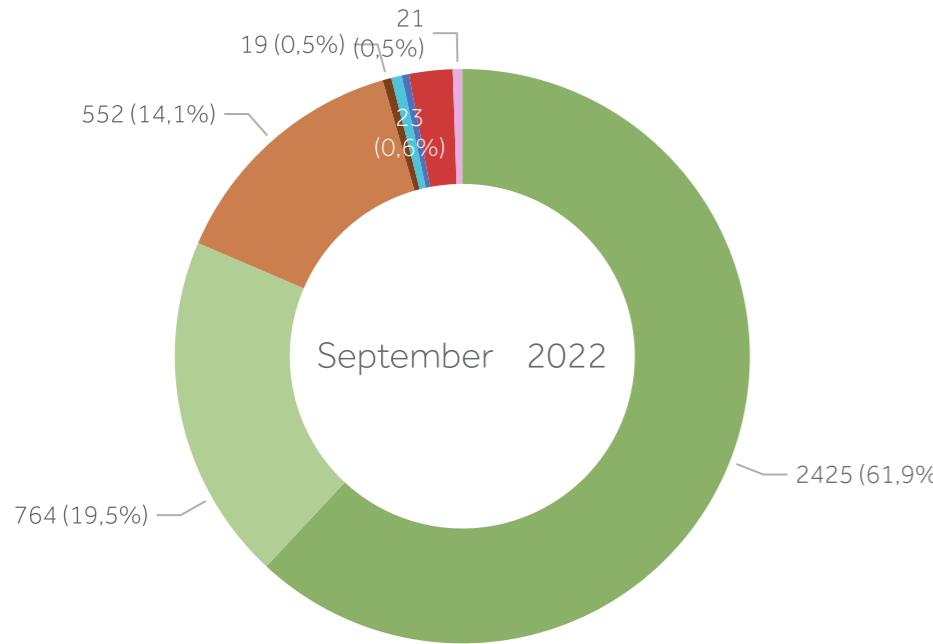
### Minimum total demand

 26/09/2022  4:00  
**3.741 MW**



# Energy Balance in the Interconnected System and Network

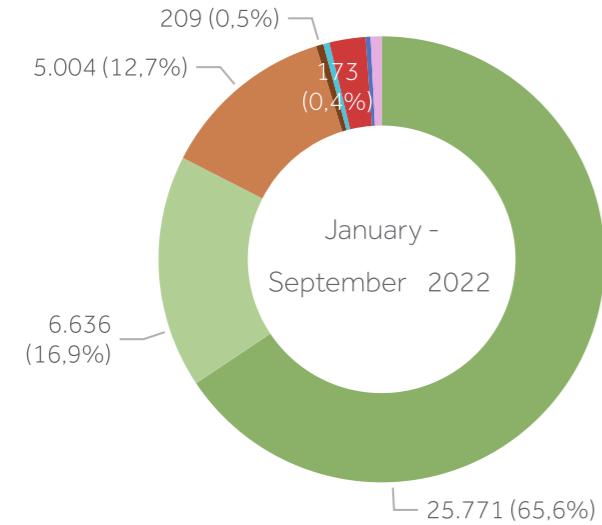
## ESTIMATION OF TOTAL DEMAND<sup>1</sup> & INTERCONNECTION BALANCE<sup>3</sup>



Energy Balance  
September 2022

**3.916** GWh

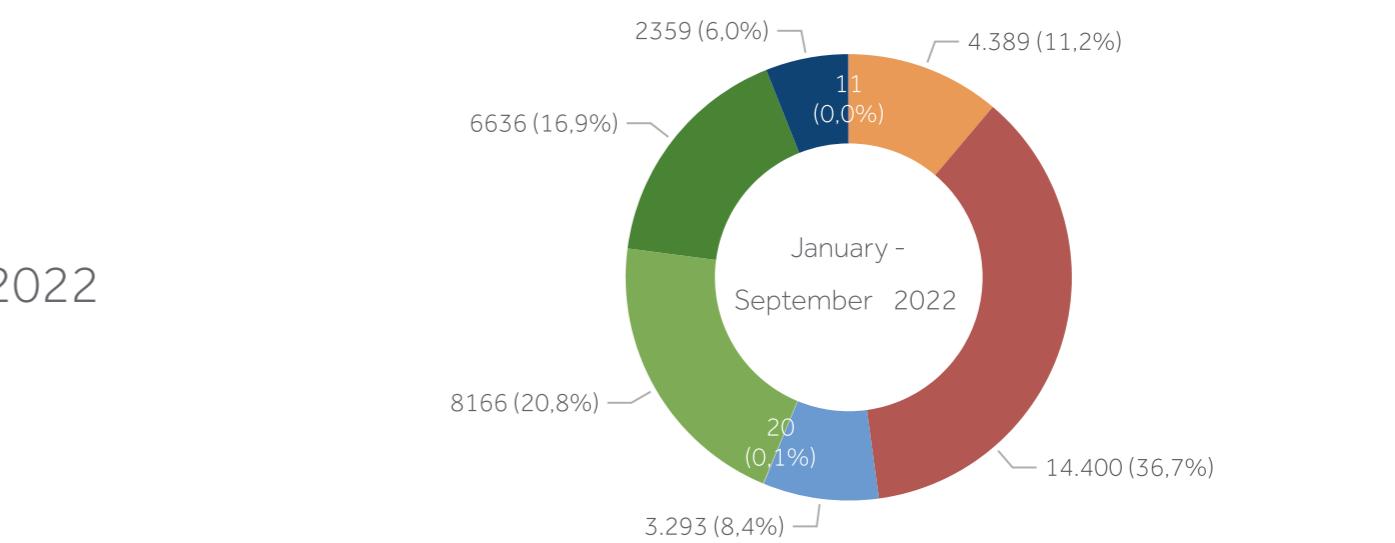
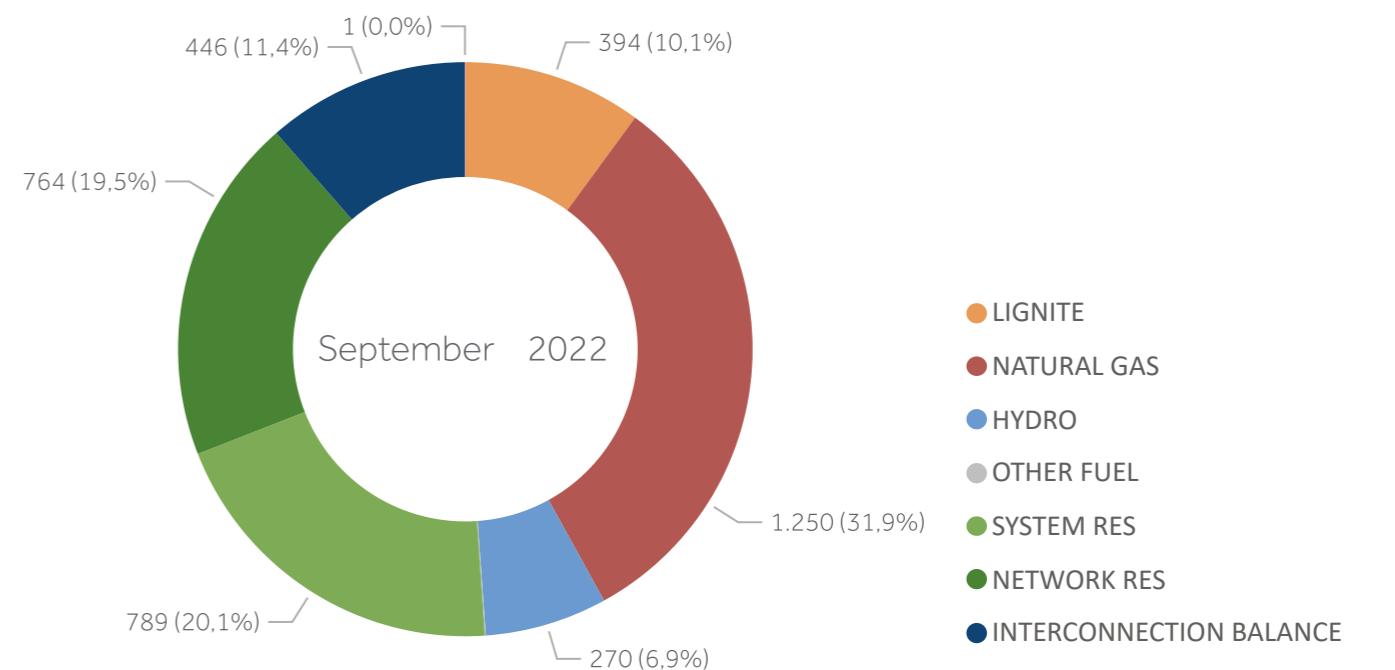
- SYSTEM TO NETWORK BOUNDARY SUBSTATIONS
- NETWORK DEMAND
- HIGH VOLTAGE CONSUMERS
- MINES
- SELF-PRODUCTION
- PUMPING
- SYSTEM LOSSES
- INTERCONNECTION BALANCE
- CRETE INTERCONNECTION



Energy Balance  
January 2022 - September 2022

**39.274** GWh

## ESTIMATION OF TOTAL GENERATION<sup>2</sup> & INTERCONNECTION BALANCE<sup>3</sup>



### Notes

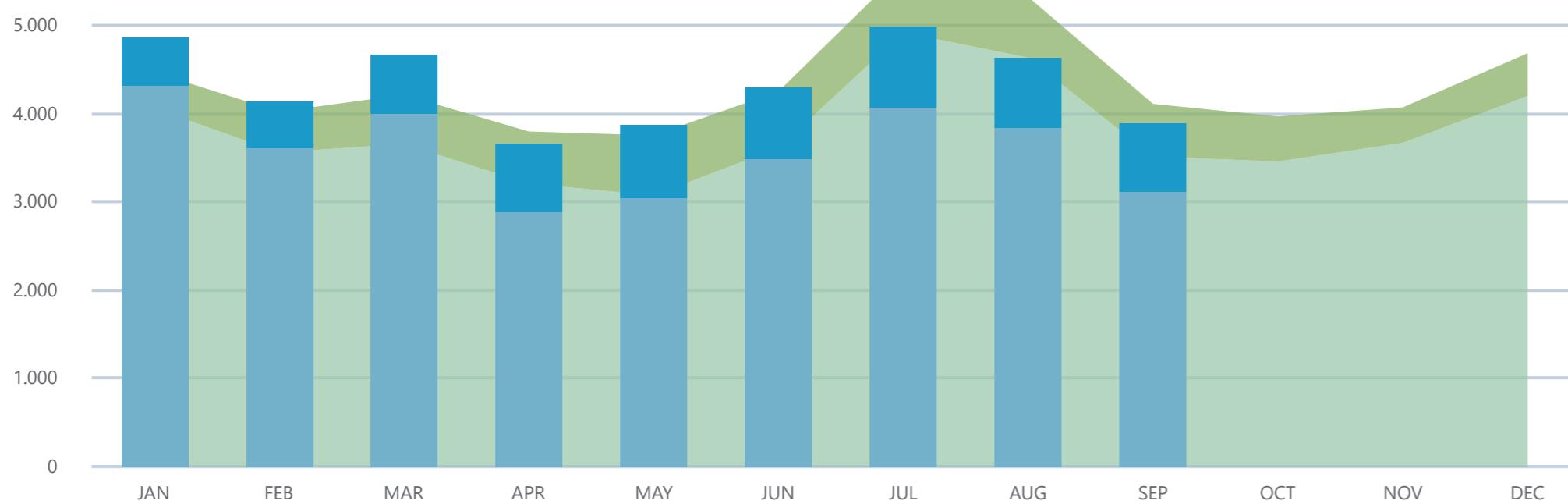
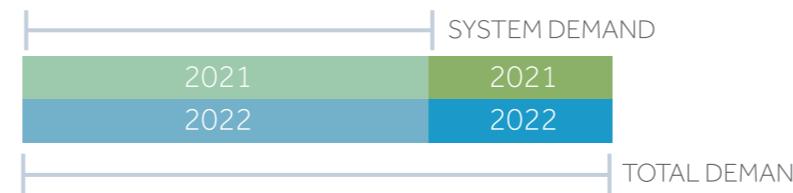
- 1 The demand of non-interconnected islands is not included.
- 2 Network generation results from validated meter data for the Medium Voltage and from validated meter data and estimations for the Low Voltage.
- 3 The surplus in the interconnection balance is displayed in the estimation of demand, whereas a deficit in the estimation of generation.

## Total Demand & System Demand

### ESTIMATION OF TOTAL DEMAND & SYSTEM DEMAND (GWh)



Annex 1.1

Total Demand <sup>2</sup>

**3.900** GWh

↓ 5,16%

Variation in comparison to the same month of the previous year

System Demand <sup>1</sup>

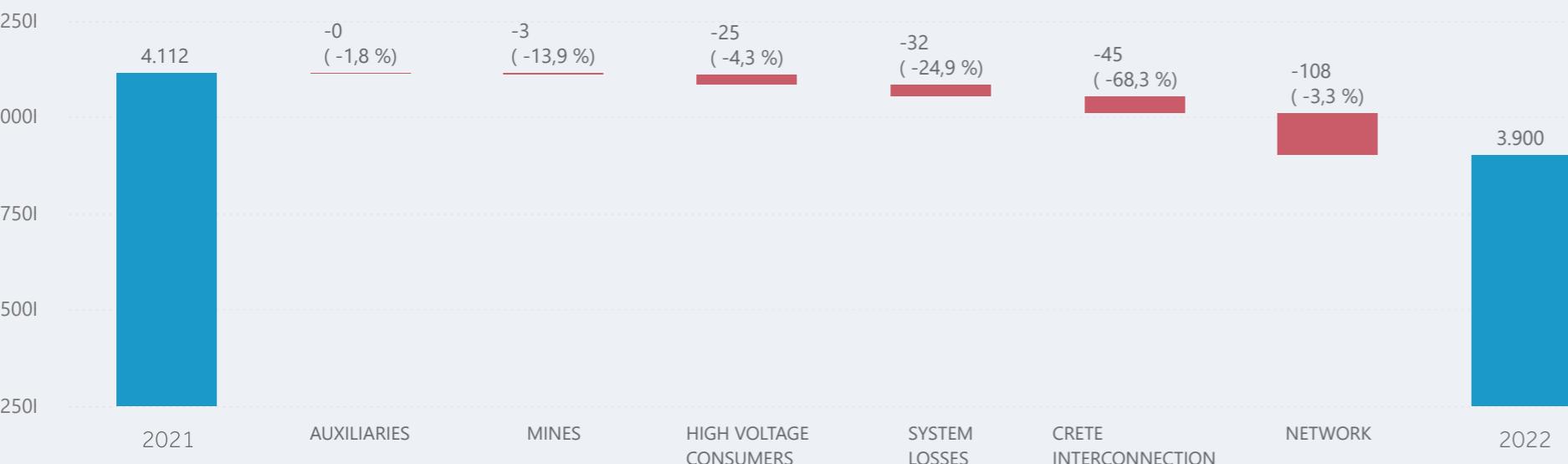
**3.136** GWh

↓ 10,79%

Variation in comparison to the same month of the previous year

### VARIATION OF TOTAL DEMAND (GWh)

September 2021 - September 2022



### Notes

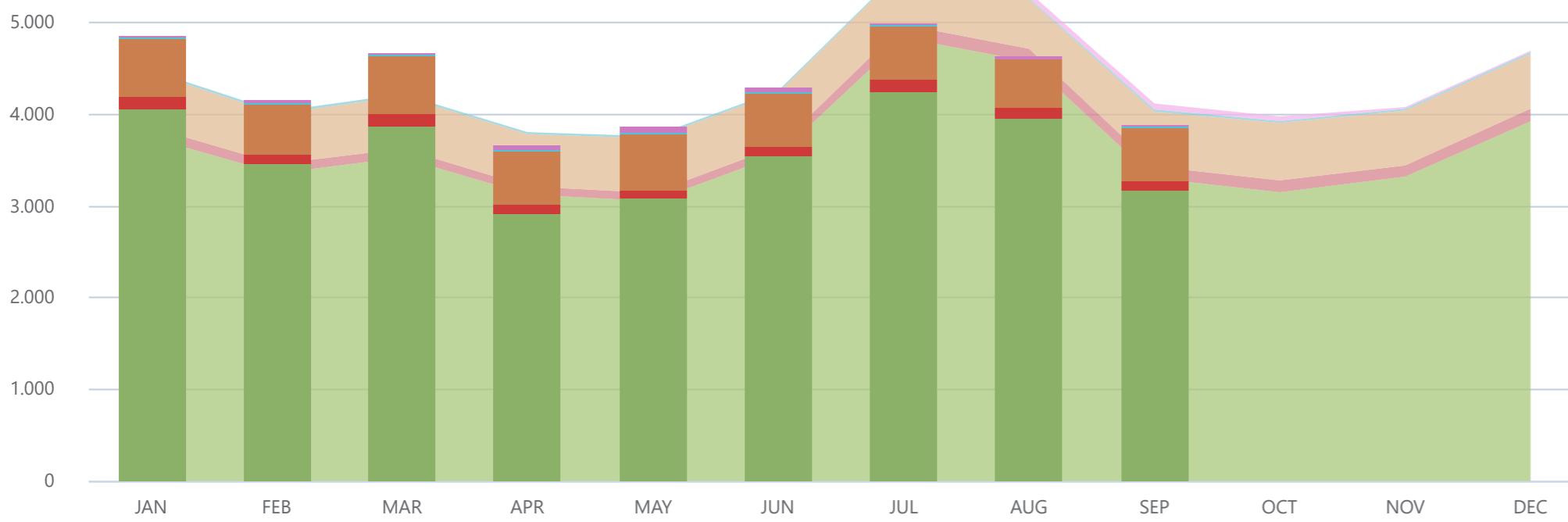
1 System Demand is defined as the generation produced by production units (conventional and RES) connected to the System, that is required to cover the System Load (excluding pumping). Demand supplied by units injecting into the Network is not included. More specifically, the estimation of System Demand includes the demand of High Voltage consumers, mines, the self-production, the demand in System-Network boundary substations, the System losses and the flow to Crete interconnection.

2 Total Demand is defined as the generation on the mainland and the interconnected islands required to supply the Load (excluding pumping). More specifically, the estimation of Total Demand includes the estimation of System Demand and the estimation of demand covered by production units connected to the Network. Network generation results from certified measurements for the Medium Voltage and measurements and estimations for the Low Voltage.

# Demand per Consumption Category

## EVOLUTION OF DEMAND (GWh) Annex 1.1

per consumption category



### SELF-PRODUCTION

2021 2022

### HIGH VOLTAGE CONSUMERS / MINES

2021 2022

### SYSTEM LOSSES

2021 2022

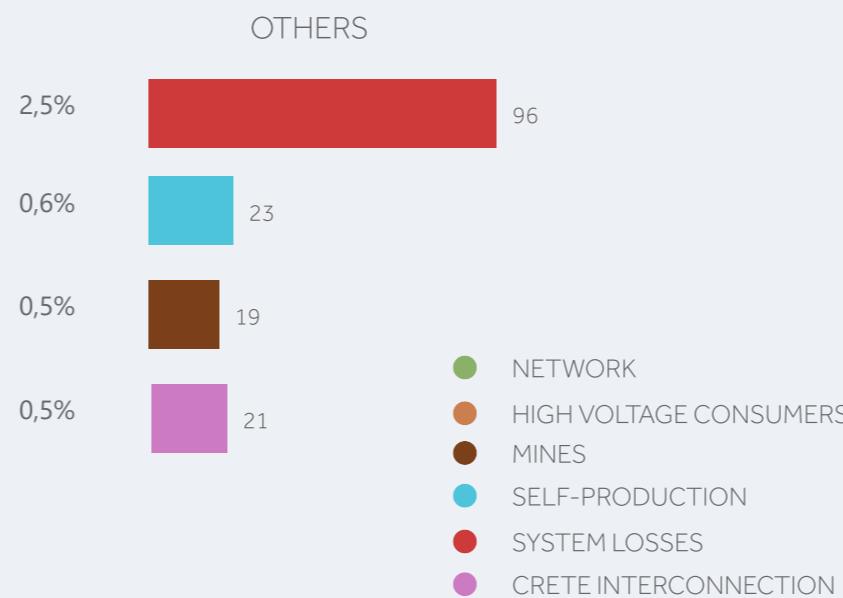
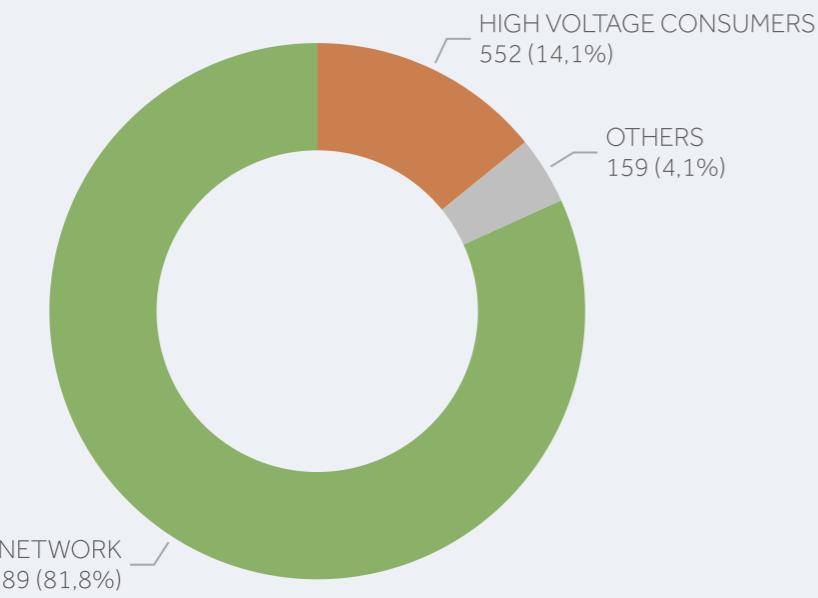
### NETWORK

2021 2022

### CRETE INTERCONNECTION

2021 2022

## ESTIMATION OF DEMAND PER CONSUMPTION CATEGORY (GWh)



### Notes

- 1 Network Demand includes the estimation of demand in the System-Network boundary substations and the estimation of demand supplied by production units in the Network. Network generation results from certified measurements for the Medium Voltage and measurements and estimations for the Low Voltage.
- 2 Demand does not include pumping.

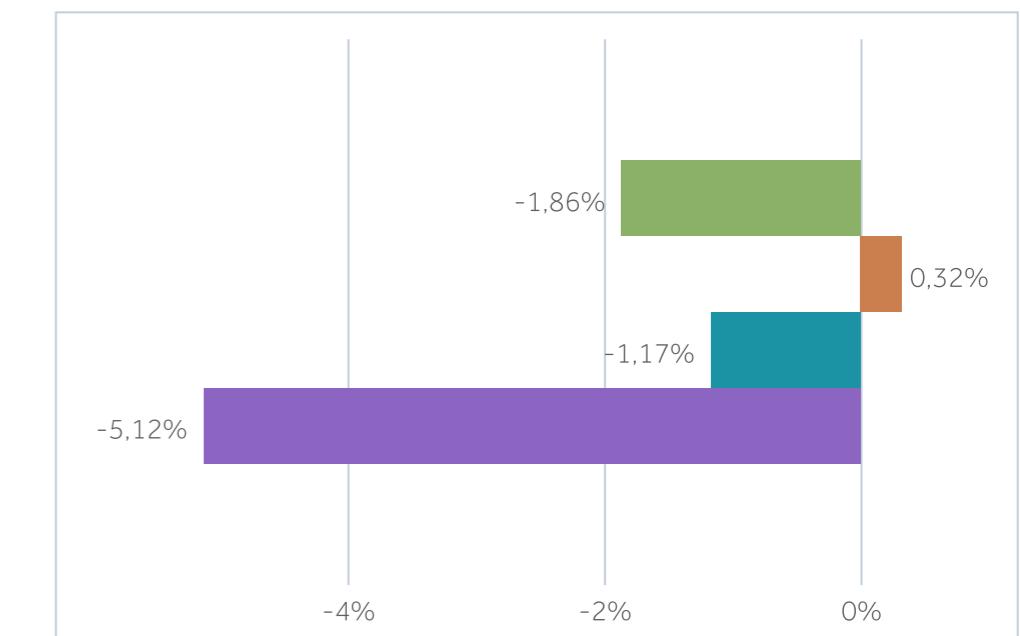
## Evolution of Demand in comparison to the previous year

### EVOLUTION OF DEMAND in comparison to the same month of the previous year



### EVOLUTION OF DEMAND

current year in comparison to the same period of the previous year



- NETWORK
- HIGH VOLTAGE CONSUMERS
- TOTAL DEMAND
- SYSTEM DEMAND

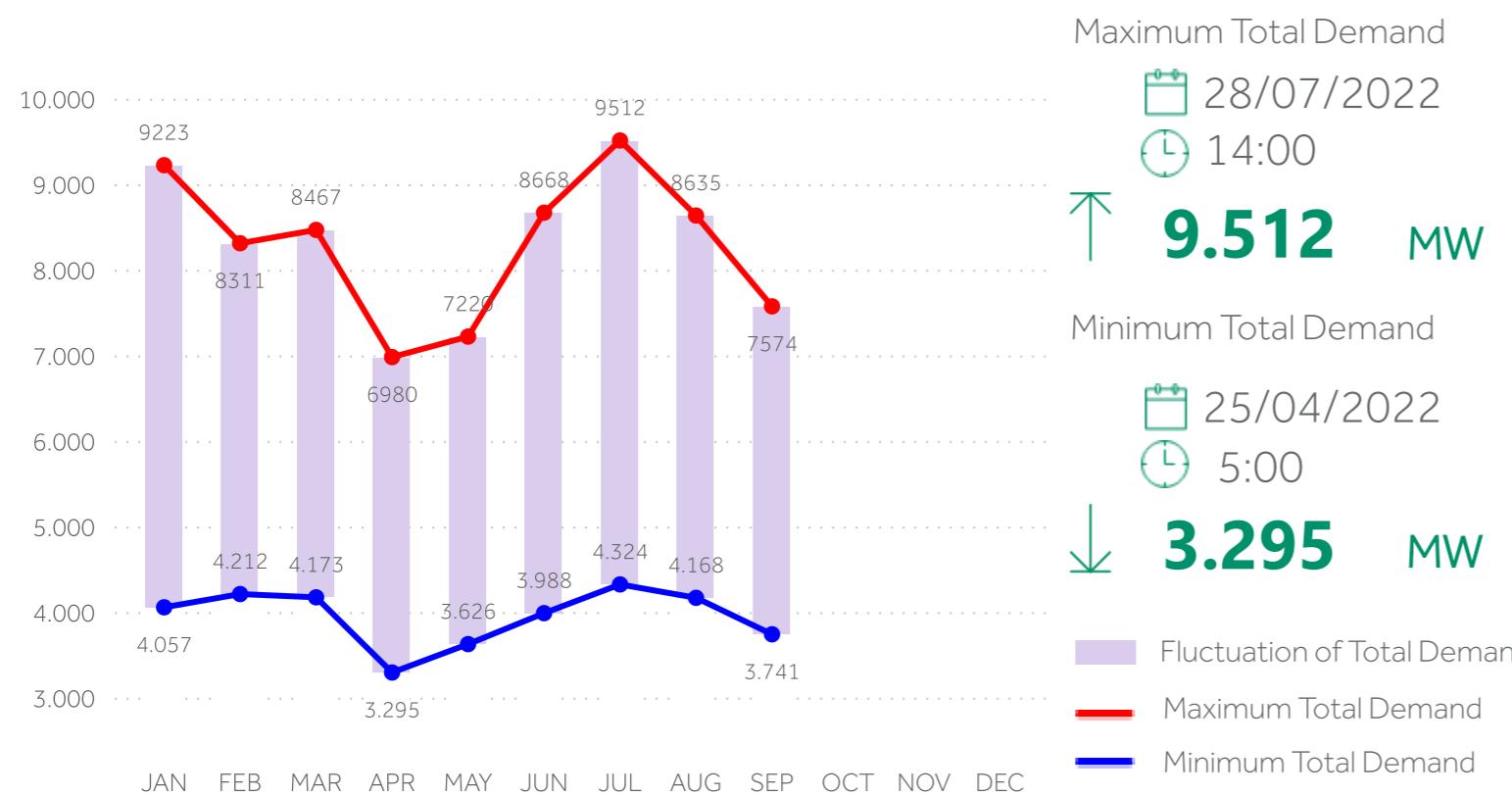
### Notes

- 1 Network Demand includes the estimation of demand in the System-Network boundary substations and the estimation of demand supplied by production units in the Network. Network generation results from certified measurements for the Medium Voltage and measurements and estimations for the Low Voltage.
- 2 Demand does not include pumping.

## MAXIMUM & MINIMUM HOURLY TOTAL DEMAND (MW)

current year

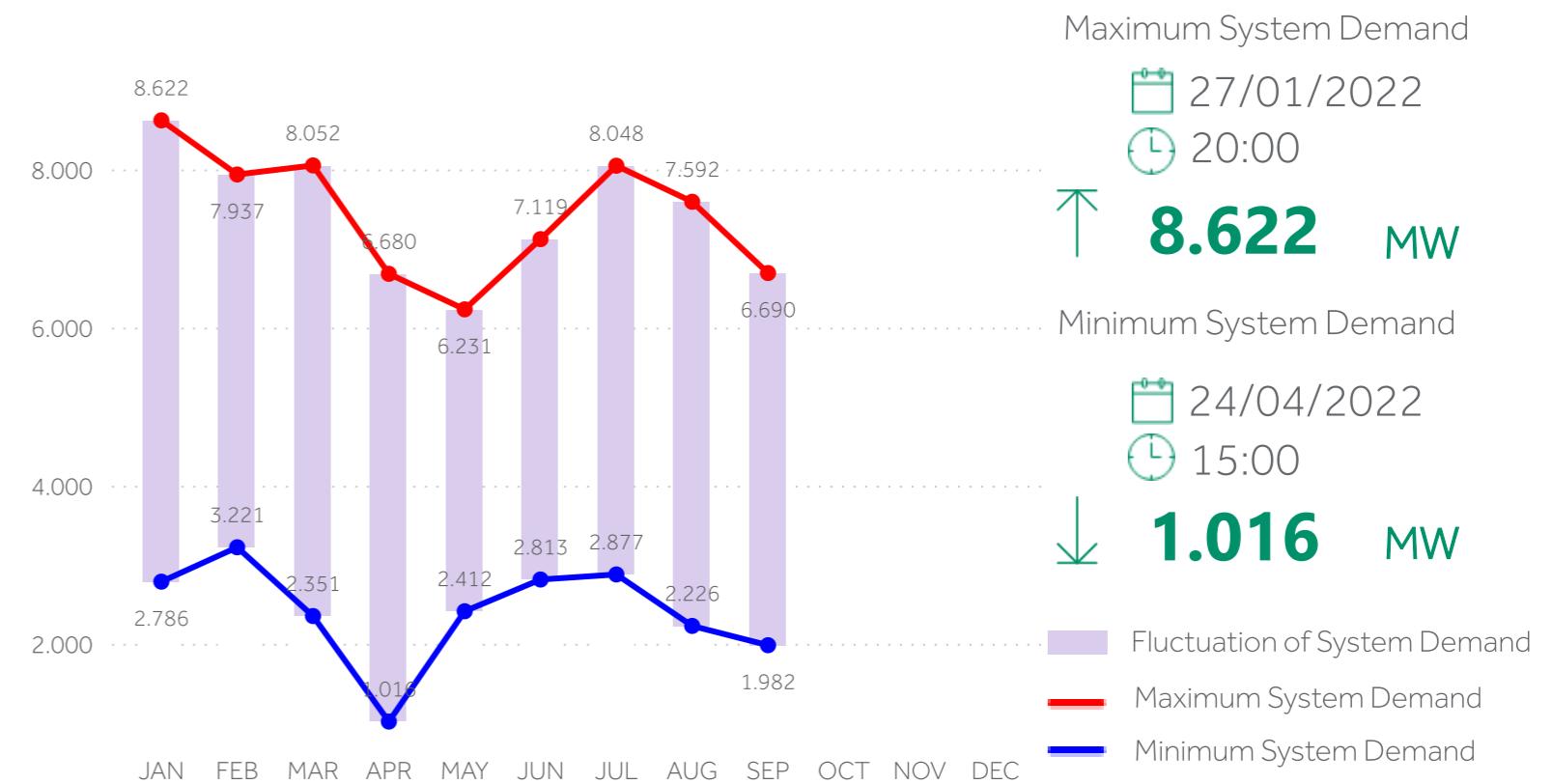
Annex 1.2



## MAXIMUM & MINIMUM HOURLY SYSTEM DEMAND (MW)

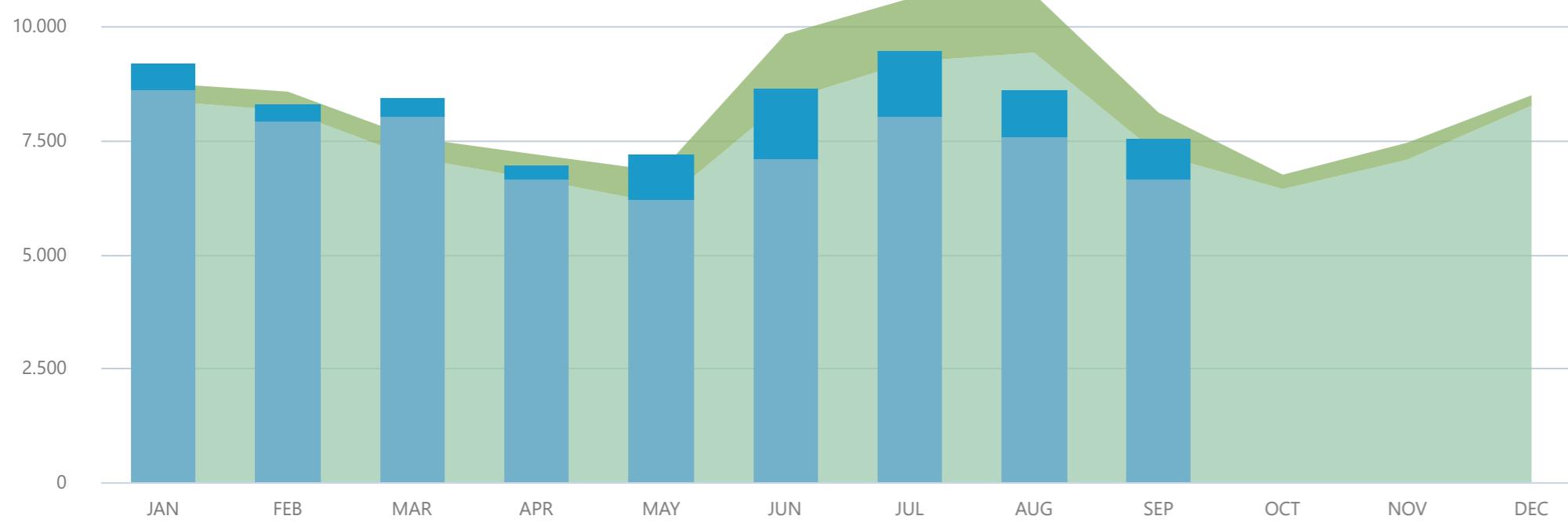
current year

Annex 1.3



## MAXIMUM HOURLY TOTAL DEMAND & SYSTEM DEMAND (MW)

Annex 1.2 - 1.3

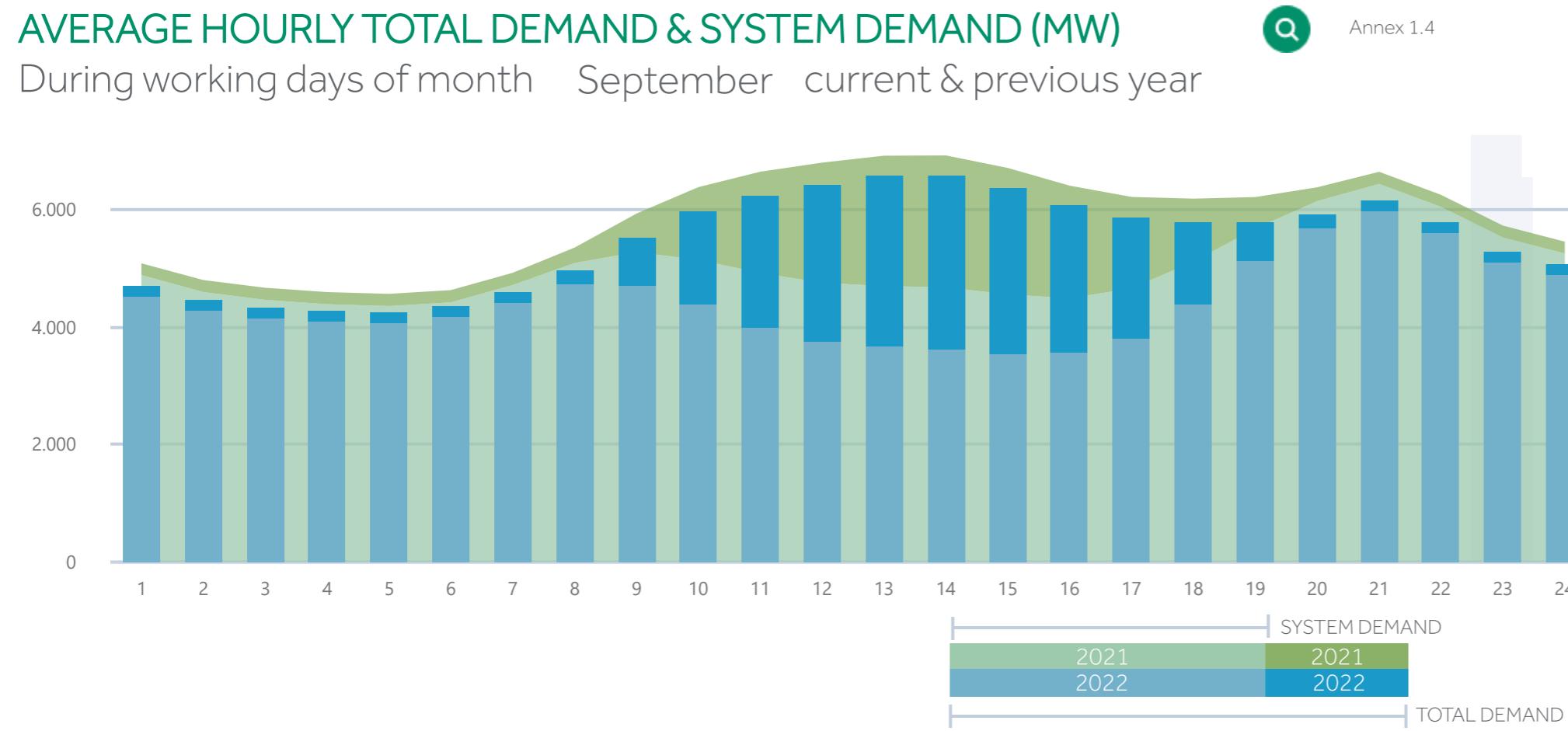


### Notes

- In maximum & minimum demand analysis, Total Demand and System Demand include pumping.
- Analysis is based on hourly data.

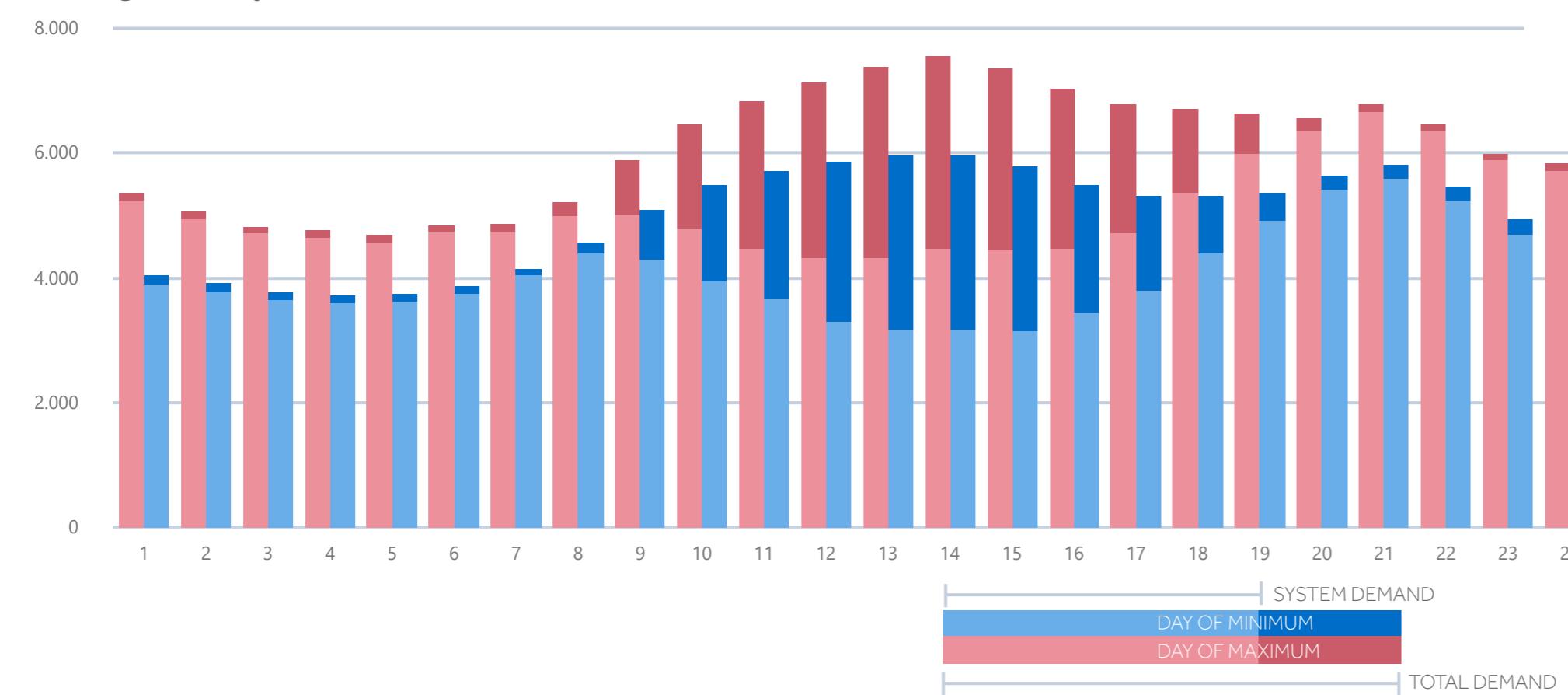
## AVERAGE HOURLY TOTAL DEMAND & SYSTEM DEMAND (MW)

During working days of month September current & previous year



## HOURLY TOTAL DEMAND & SYSTEM DEMAND (MW)

During the day of maximum and minimum of month September 2022



### MAXIMUM TOTAL DEMAND

01/09/2022

14:00

**7.574 MW**

### MINIMUM TOTAL DEMAND

26/09/2022

4:00

**3.741 MW**

### MAXIMUM SYSTEM DEMAND

01/09/2022

21:00

**6.690 MW**

### MINIMUM SYSTEM DEMAND

25/09/2022

15:00

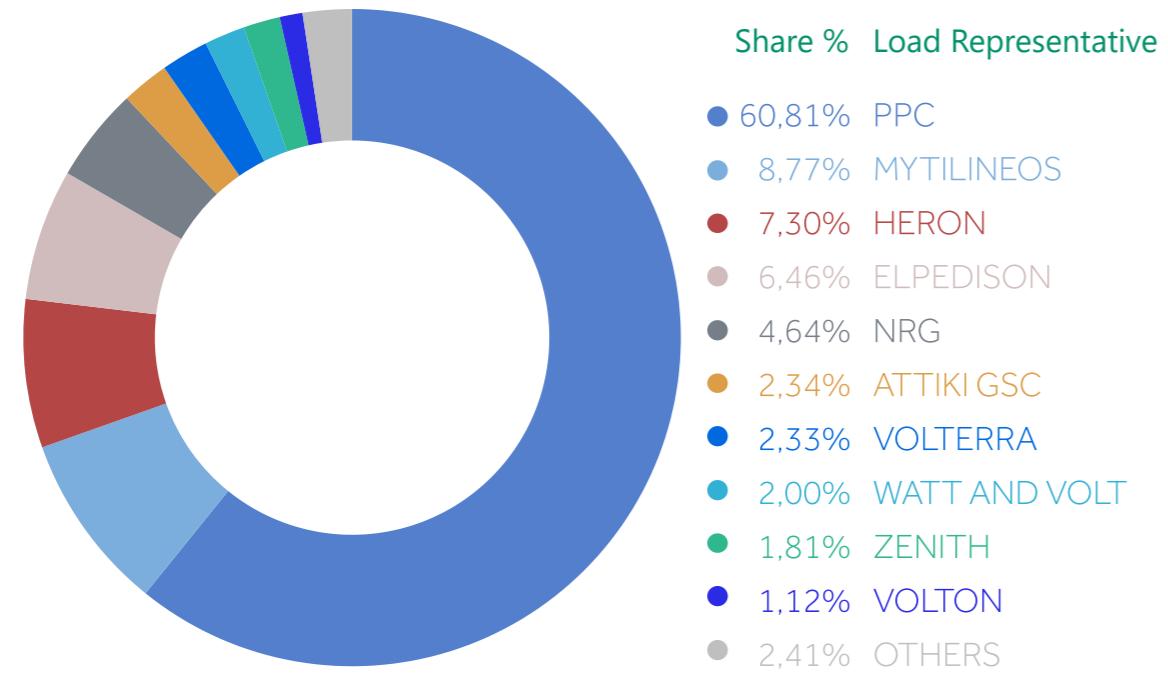
**1.982 MW**

#### Notes

- For each hour, the demand is calculated as the average of the demand of the relevant hour for each working day or the month.
- Total Demand and System Demand include pumping.

## Market Share of Load Representatives - Demand per voltage level

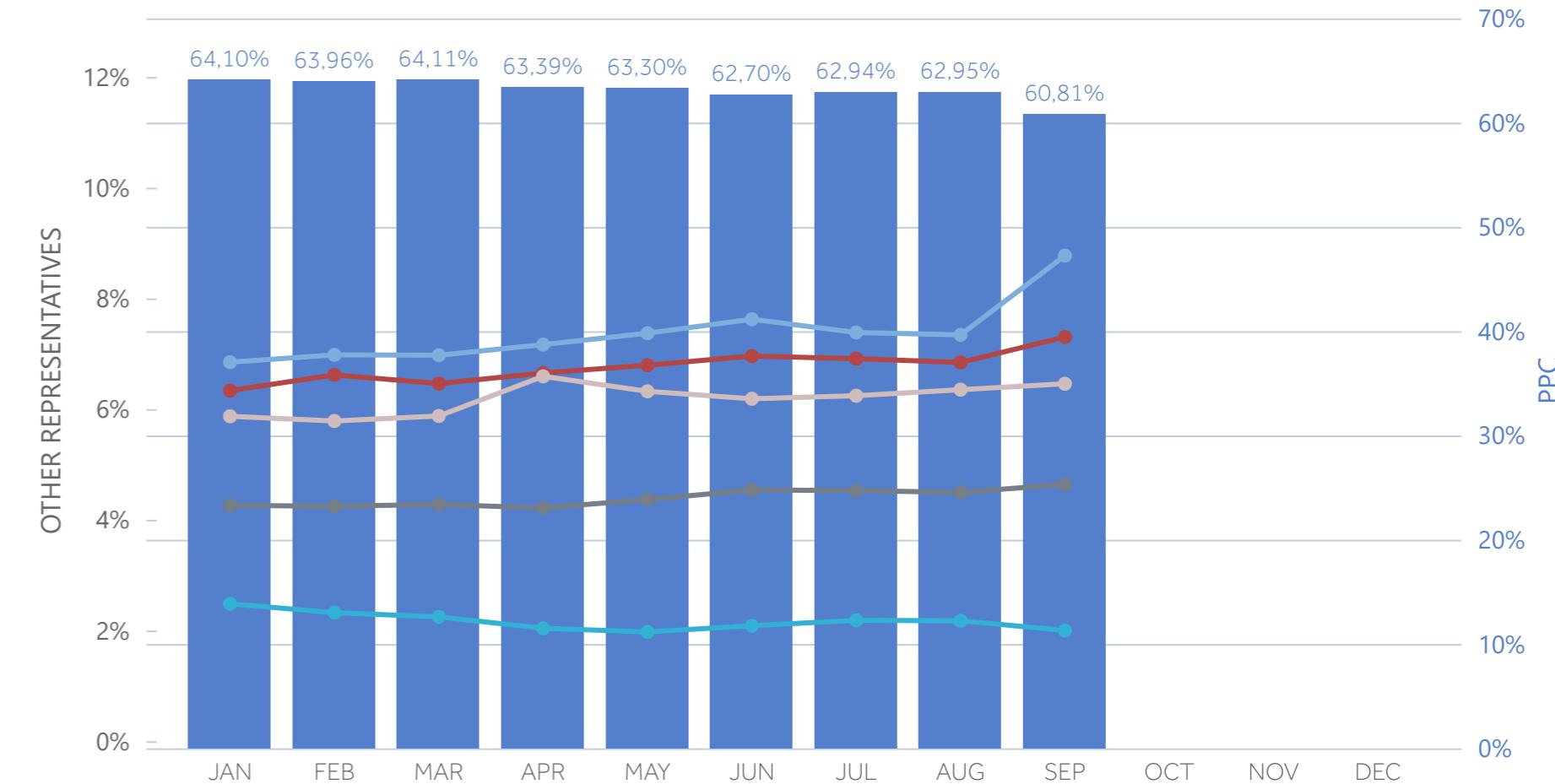
MARKET SHARE OF LOAD REPRESENTATIVES (%) 



Annex 1.7

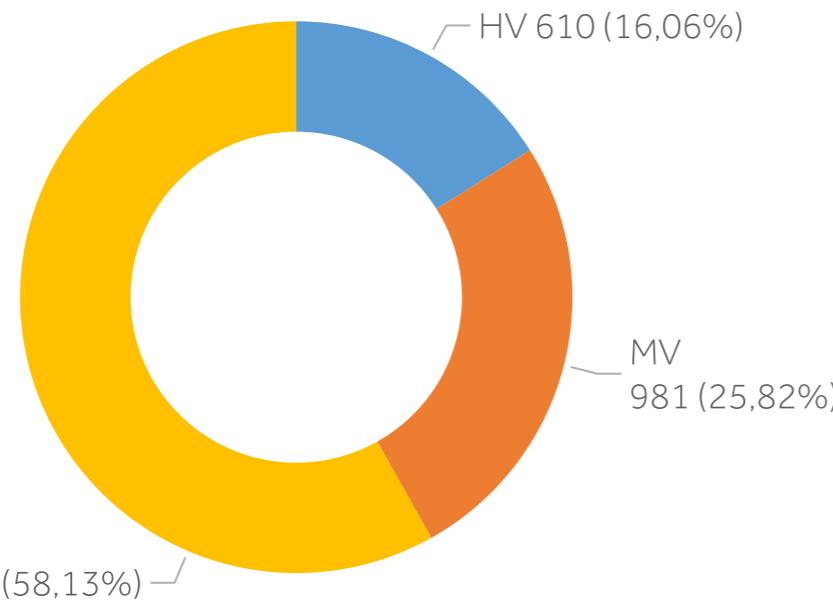
EVOLUTION OF MARKET SHARE OF LOAD REPRESENTATIVES (%) 

(6 load representatives with higher market shares during the current year)



Annex 1.6

DEMAND PER VOLTAGE LEVEL (GWh/%)

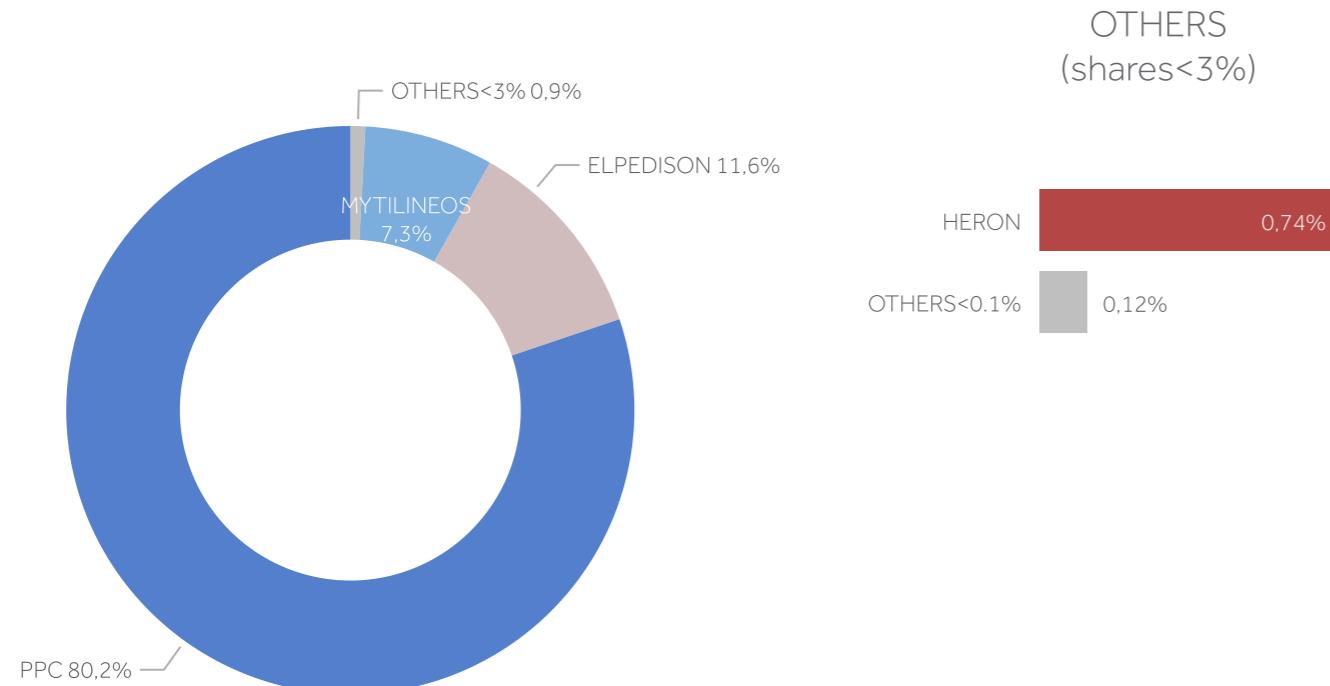


### Notes

- Data used for the calculation of the shares of the representatives include:
  - Self-supplied consumers and producers representing the auxiliary loads of their production units.
  - Consumption of Low Voltage consumers is based on a preliminary estimation of the Network Operator.
- Values in GWh are referenced to the System-Network boundaries.
- The utilisation of the interconnection of Crete to the HETS is not included.

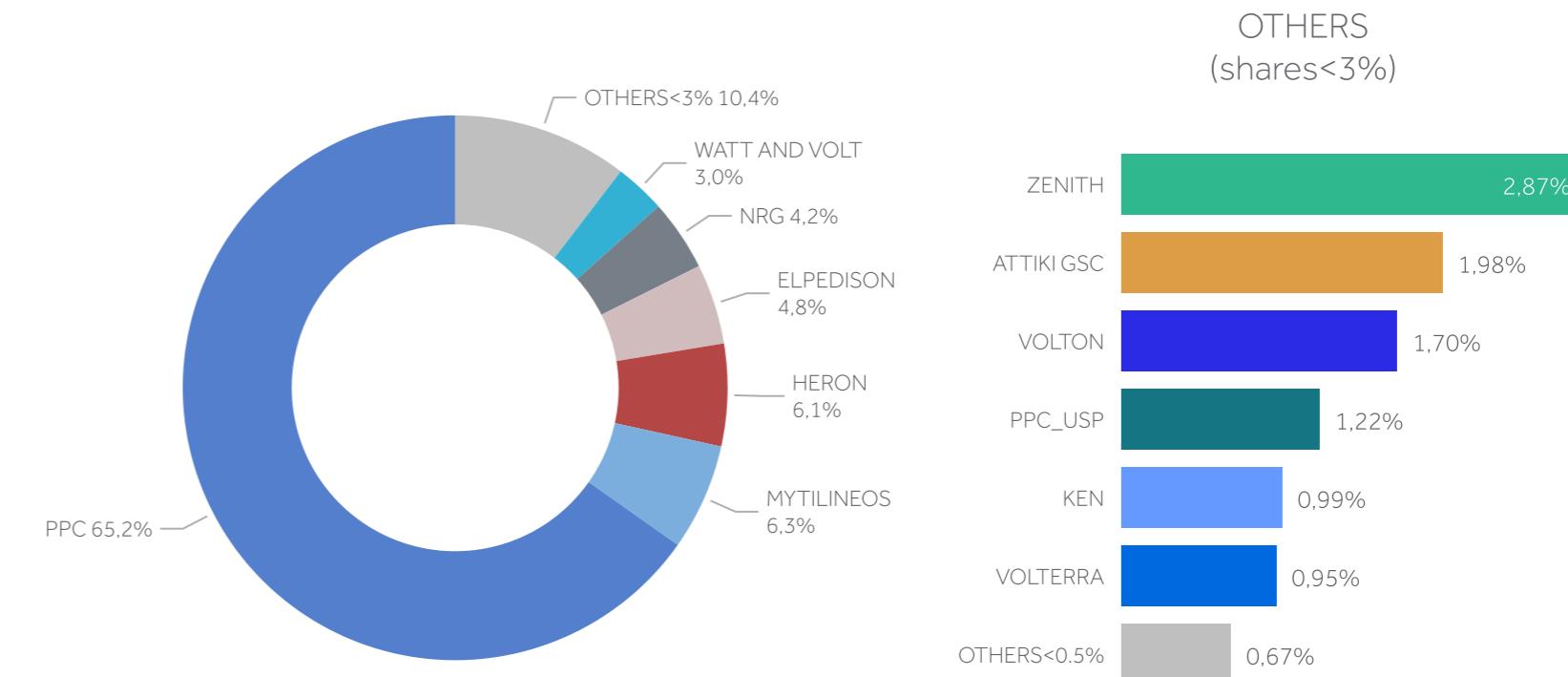
## Market Share of Load Representatives per voltage level

MARKET SHARE OF LOAD REPRESENTATIVES IN HV (%)



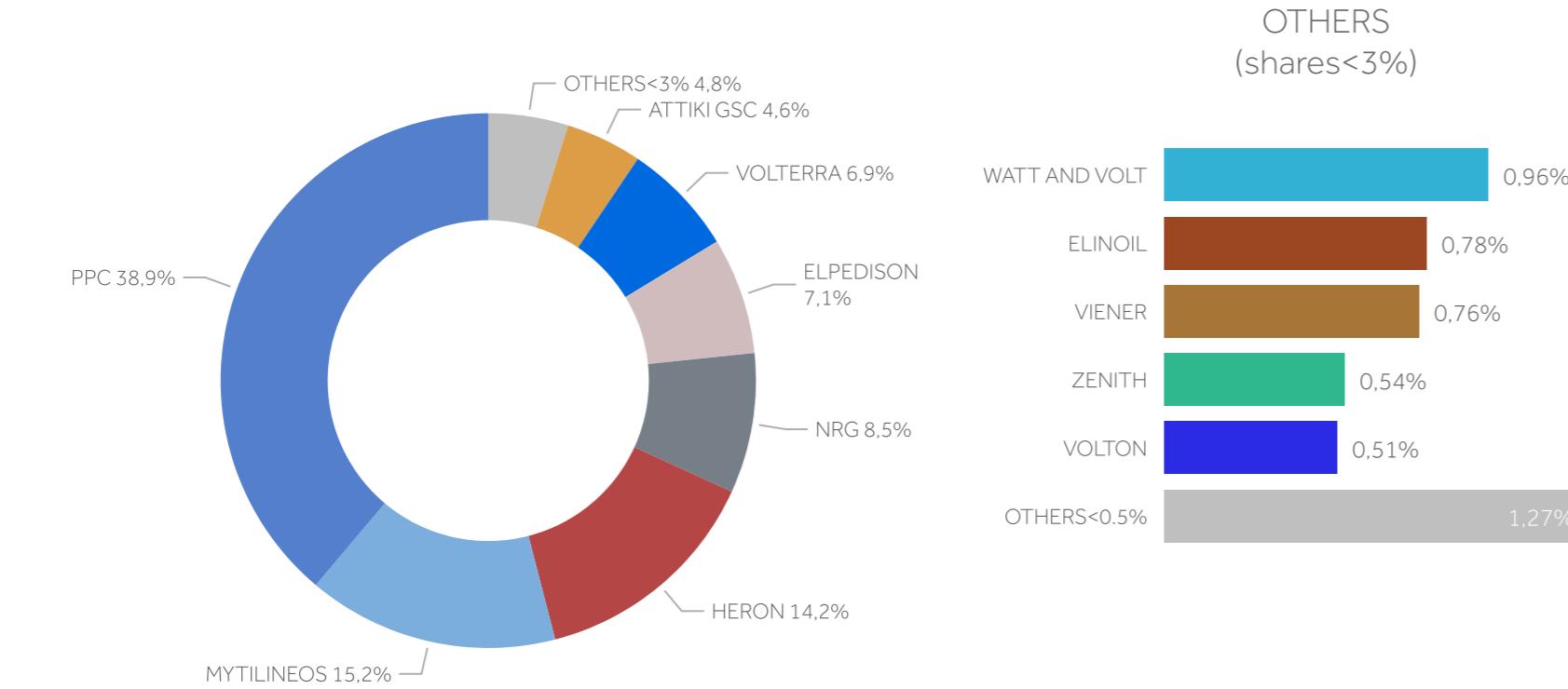
Annex 1.7

MARKET SHARE OF LOAD REPRESENTATIVES IN LV (%)



Annex 1.7

MARKET SHARE OF LOAD REPRESENTATIVES IN MV (%)



Annex 1.7

### Notes

- Data used for the calculation of the shares of the representatives include:
  - Self-supplied consumers and producers representing the auxiliary loads of their production units.
  - Consumption of Low Voltage consumers is based on a preliminary estimation of the Network Operator.
- Values in GWh are referenced to the System-Network boundaries.
- The utilisation of the interconnection of Crete to the HETS is not included.

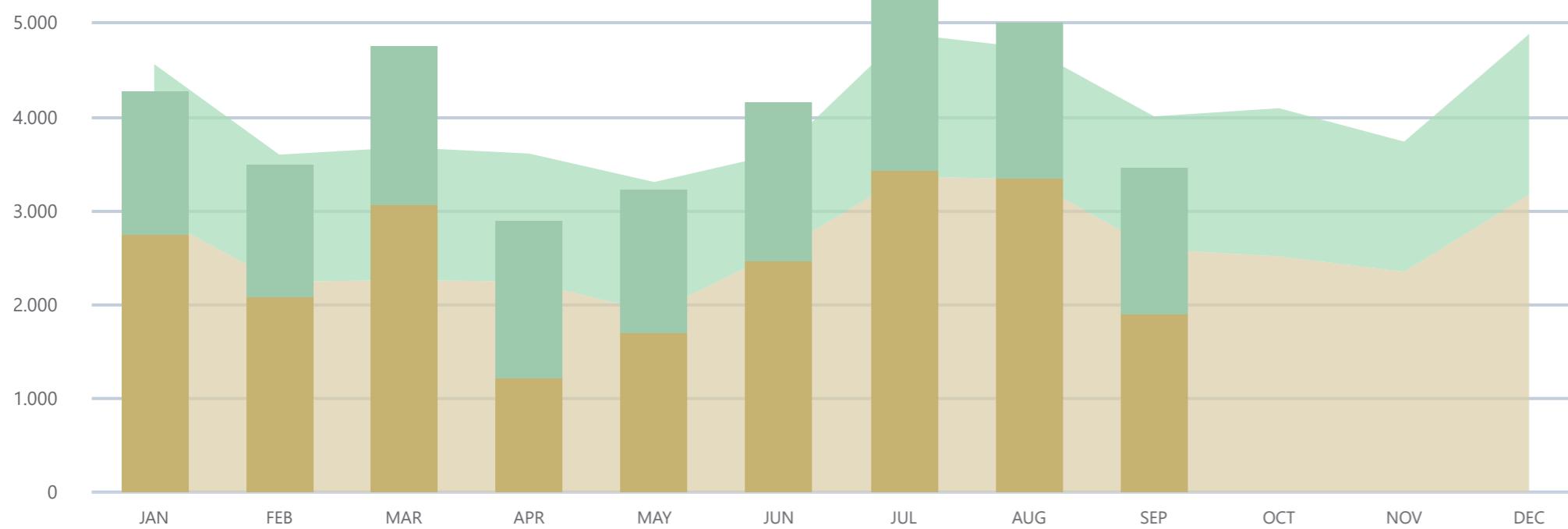
## Analysis of Net Generation

### ESTIMATION OF NET GENERATION (GWh)

Annex 2.1

2021 CONVENTIONAL  
2022 GENERATION

2021 RES  
2022 GENERATION



### Total Net Generation

**3.470** GWh

↓ 13,42%

Variation in comparison to the same month of the previous year



Thermal Generation



Hydro Generation



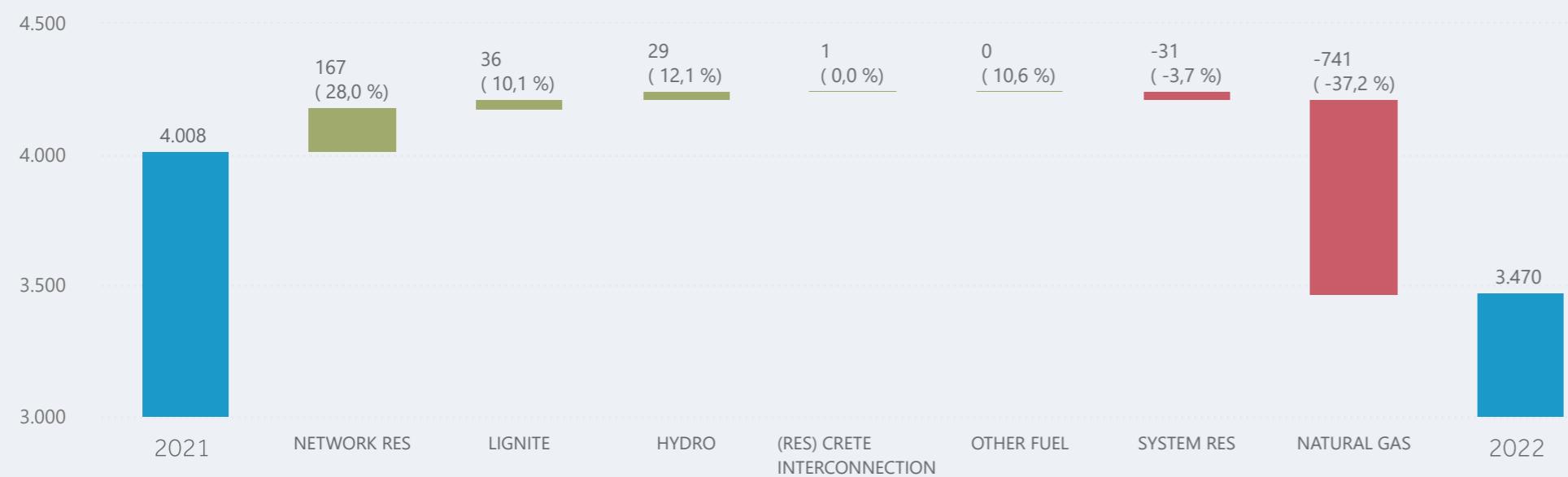
RES Generation

47,44%

7,77%

44,79%

### VARIATION OF NET GENERATION (GWh) September 2021 - September 2022



### Notes

Analysis of generation refers to the net generation.

Total Generation includes the generation of conventional production units and RES units and refers to the injection point in the System.

Conventional Generation includes the generation of large scale hydro units, as well as the generation of dispatchable co-generation units that has not been characterised as high efficiency Co-Generation.

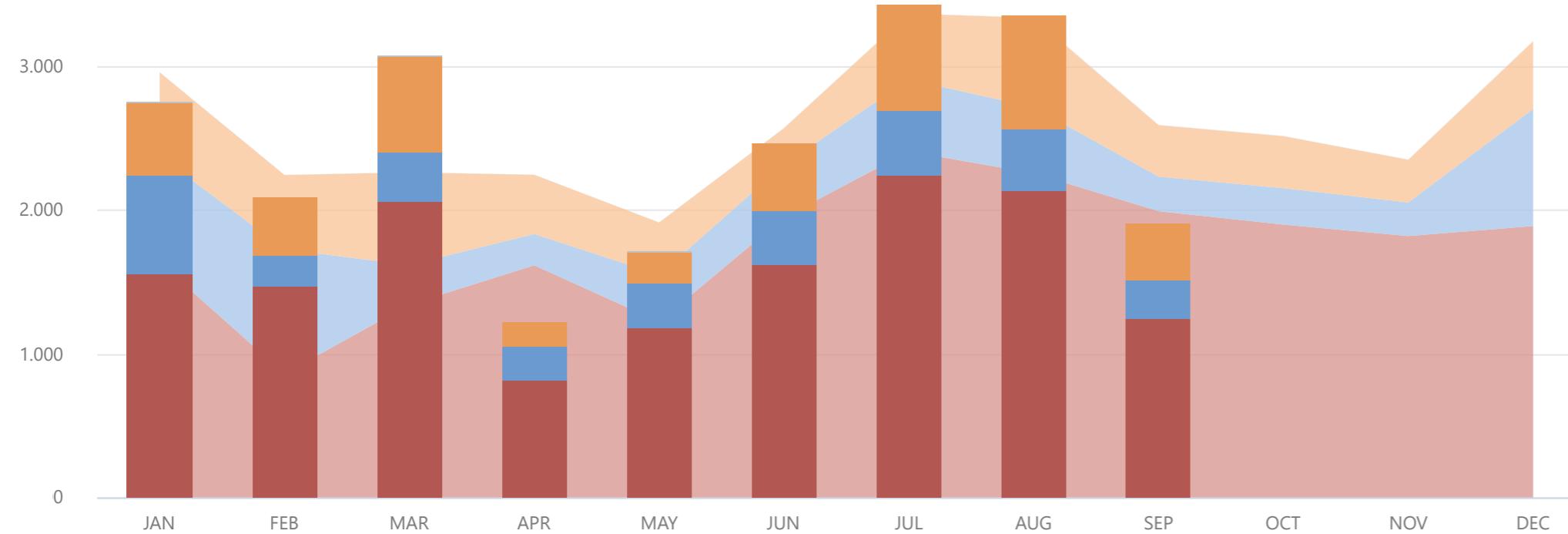
RES Generation includes

- generation in the point of injection to the System from RES generation connected directly to System substations (System RES)
- generation from dispatchable co-generation units that has been characterised as high efficiency Co-Generation (System RES)
- estimation of generation in the Distribution Network (Network RES), which results from certified measurements for the Medium Voltage and measurements and estimations for the Low Voltage.

## Conventional Generation Mix

### EVOLUTION OF CONVENTIONAL GENERATION MIX (GWh)

Annex 2.1



OTHER FUEL

2021 2022

LIGNITE

2021 2022

HYDRO

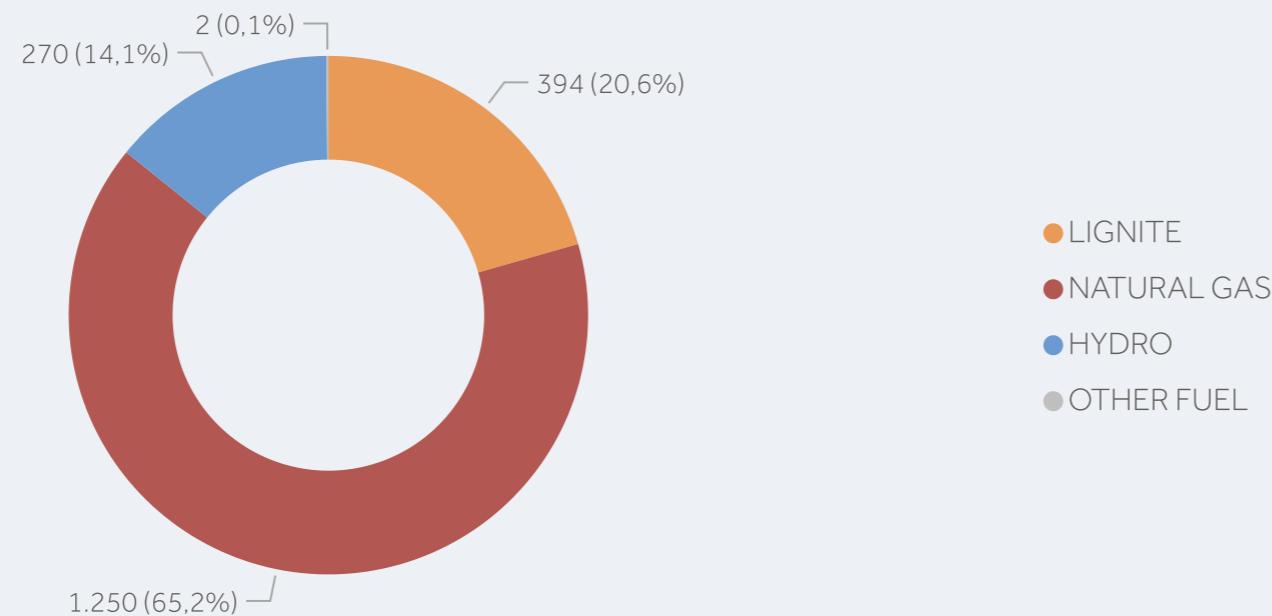
2021 2022

NATURAL GAS

2021 2022

### CONVENTIONAL GENERATION MIX PER FUEL CATEGORY (GWh)

September 2022

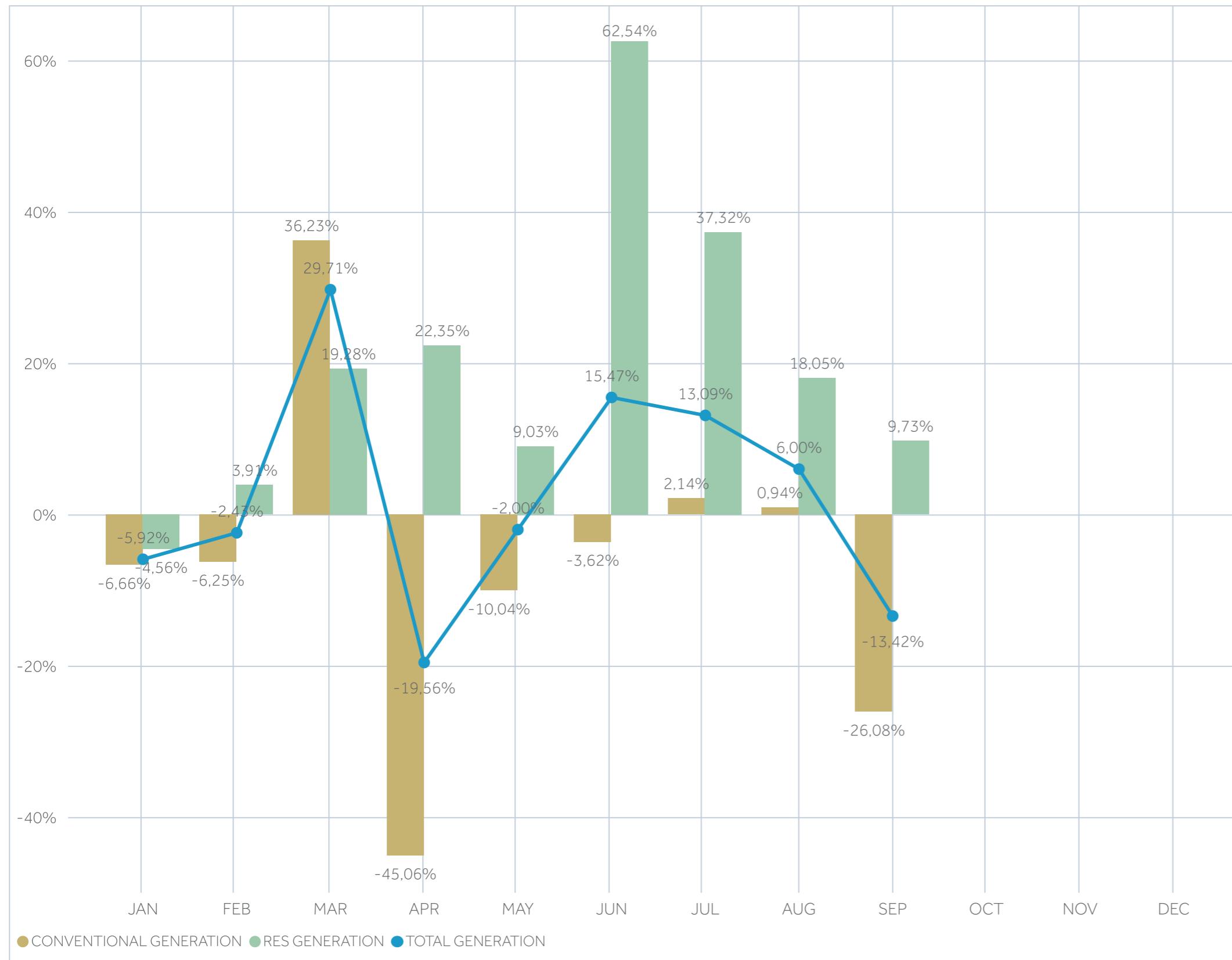


#### Notes

- Generation refers to the injection point in the System.
- Conventional Generation includes the generation of large scale hydro units, as well as the generation of dispatchable co-generation units that has not been characterised as high efficiency Co-Generation.

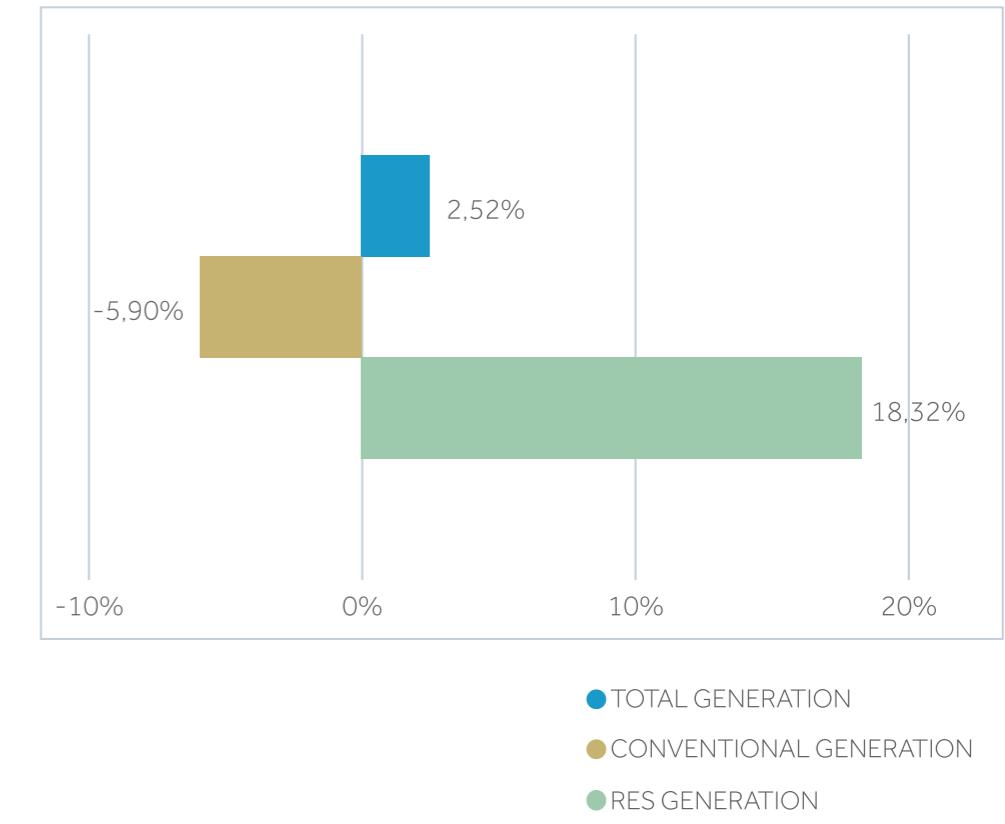
## Variation of Generation in comparison to the previous year

### VARIATION OF GENERATION in comparison to the same month of the previous year



### VARIATION OF GENERATION

of current year in comparison to the same period of the previous year



### Notes

Variation of generation refers to the net generation.

Total Generation includes the generation of conventional production units and RES units and refers to the injection point in the System.

Conventional Generation includes the generation of large scale hydro units, as well as the generation of dispatchable co-generation units that has not been characterised as high efficiency Co-Generation.

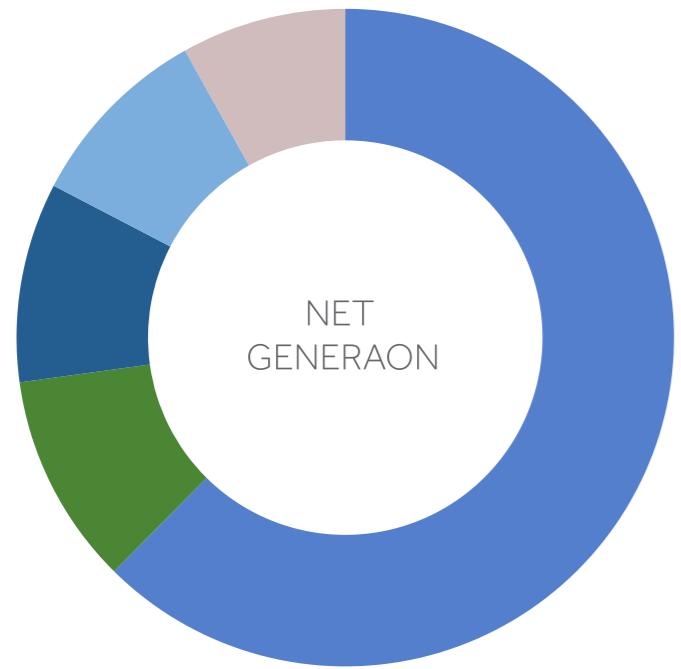
RES Generation includes

- generation in the point of injection to the System from RES generation connected directly to System substations (System RES)
- generation from dispatchable co-generation units that has been characterised as high efficiency Co-Generation (System RES)
- estimation of generation in the Distribution Network (Network RES), which results from certified measurements for the Medium Voltage and measurements and estimations for the Low Voltage.

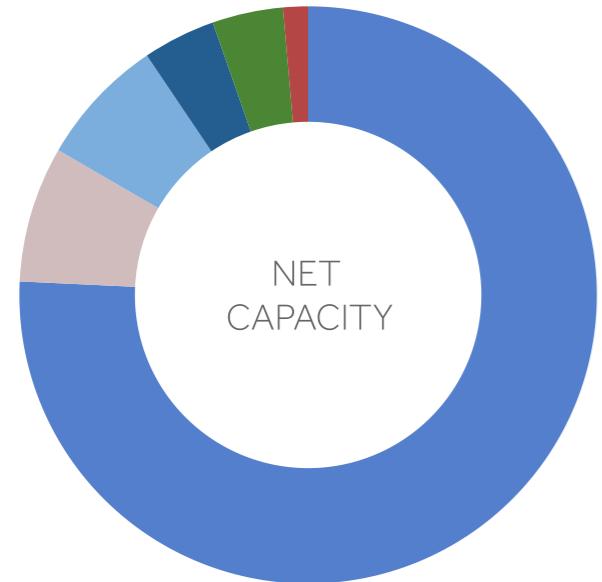
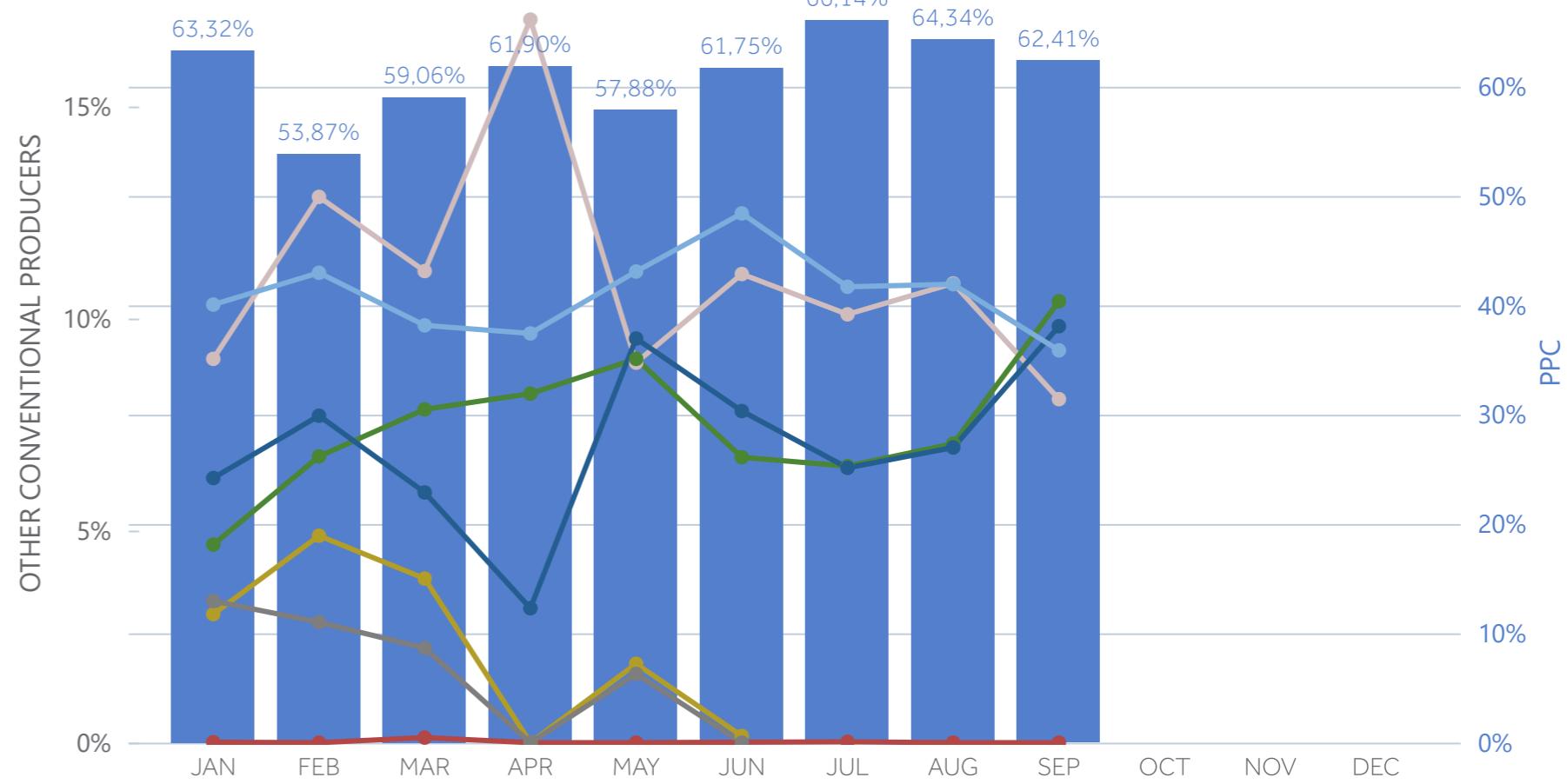
## Conventional Generation per Producer

### NET CAPACITY (MW) - NET GENERATION (GWh)

Septemb... 2022

 Annex 2.2

### PERCENTAGE OF NET CONVENTIONAL GENERATION IN THE SYSTEM (%)

 Annex 2.3

#### Notes

- Generation refers to the injection point in the System.
- Conventional Generation includes the generation of large scale hydro units, as well as the generation of dispatchable co-generation units that has not been characterised as high efficiency Co-Generation.

# Net Generation - Net Capacity by Dispatchable Generation Units in the System



Annex 2.4

## NET GENERATION (GWh)

AGRAS	1,95
AOOS	12,04
ASOMATA	11,34
EDESSAIOS	1,59
ILARIONAS	7,00
KASTRAKI	46,24
KREMASTA	66,61
LADONAS	6,71
PLASTIRAS	2,92
PLATANOVRYSI	7,87
POLYFYTO	34,69
POURNARI1	8,43
POURNARI2	0,89
SFIKIA	19,92
STRATOS1	18,08
THESAVROS	23,30
AGIOS DIMITRIOS1	8,42
AGIOS DIMITRIOS2	8,05
AGIOS DIMITRIOS3	59,73
AGIOS DIMITRIOS4	47,75
AGIOS DIMITRIOS5	150,29
MEGALOPOLI3	0,00
MEGALOPOLI4	33,71
MELITI	86,28
ALIVERI5	154,20
ALOUMINIO	103,04
ELPEDISON THESS	124,09
ELPEDISON THISVI	36,82
HERON CC	206,77
KOMOTINI	80,27
KORINTHOS POWER	194,91
LAVRIO4	50,05
LAVRIO5	85,61
MEGALOPOLIS	205,23
PROTERGIA CC	80,64
HERON1	0,04
HERON2	0,02
HERON3	0,01

## NET CAPACITY (MW)

50	50
210	210
108	108
19	19
153	153
320	320
437	437
70	70
130	130
116	116
375	375
300	300
34	34
315	315
150	150
384	384
274	274
274	274
283	283
283	283
342	342
255	255
256	256
289	289
417	417
334	334
400	400
410	410
422	422
476	476
433	433
550	550
378	378
811	811
433	433
49	49
49	49
49	49

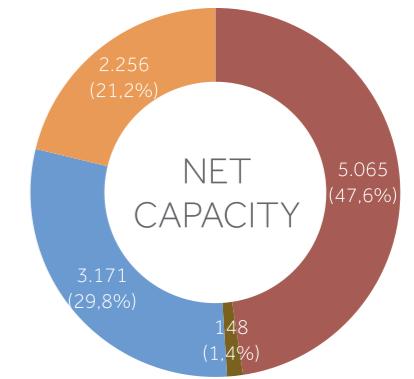
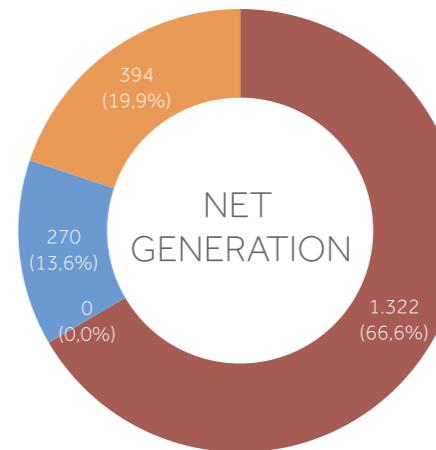
## UTILISATION COEFFICIENT (%)

5,43%
7,96%
14,58%
11,60%
6,35%
20,07%
21,16%
13,32%
3,13%
9,42%
12,85%
3,90%
3,67%
8,78%
16,74%
8,43%
4,27%
4,08%
29,32%
23,43%
61,03%
0,00%
18,29%
41,46%
51,36%
42,85%
43,07%
12,47%
68,03%
23,41%
62,45%
12,64%
31,48%
35,15%
25,88%
0,10%
0,06%
0,03%

Net Capacity (MW) Net Production (GWh) Utilisation Coefficient (%)

	N.G. Open Cycle	148	0,07	0,1%
	Hydro	3.171	270	11,8%
	Lignite	2.256	394	24,3%
	N.G. Combined Cycle	5.065	1.322	36,2%

**10.639** **1.986** **25,9%**



## Notes

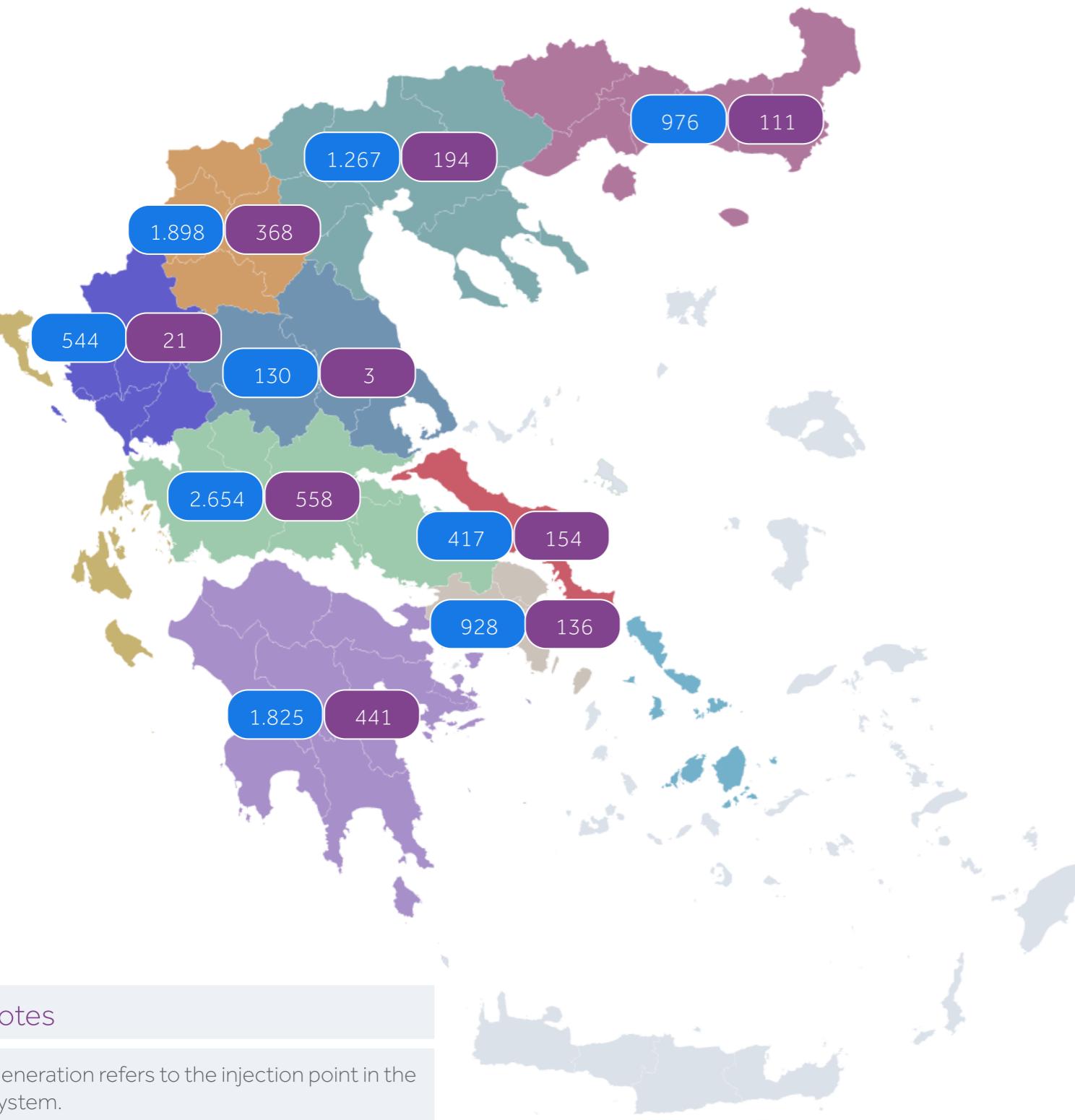
- Generation refers to the injection point in the System.
- Generation by dispatchable co-generation units that has not been characterised as high efficiency Co-Generation is the total generation (conventional and Co-Generation).
- Utilisation coefficient is the ratio of the monthly electricity generation to the maximum possible electricity generation during this period.

# Geographical Distribution of Conventional Generation

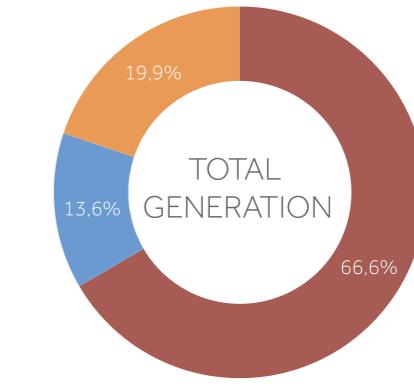
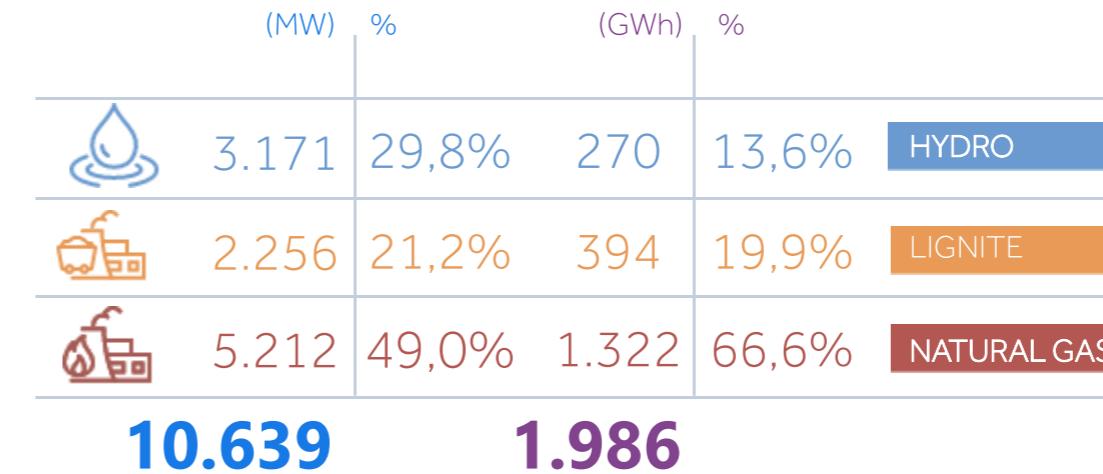
 Annex 2.5

## GEOGRAPHICAL DISTRIBUTION OF CONVENTIONAL GENERATION

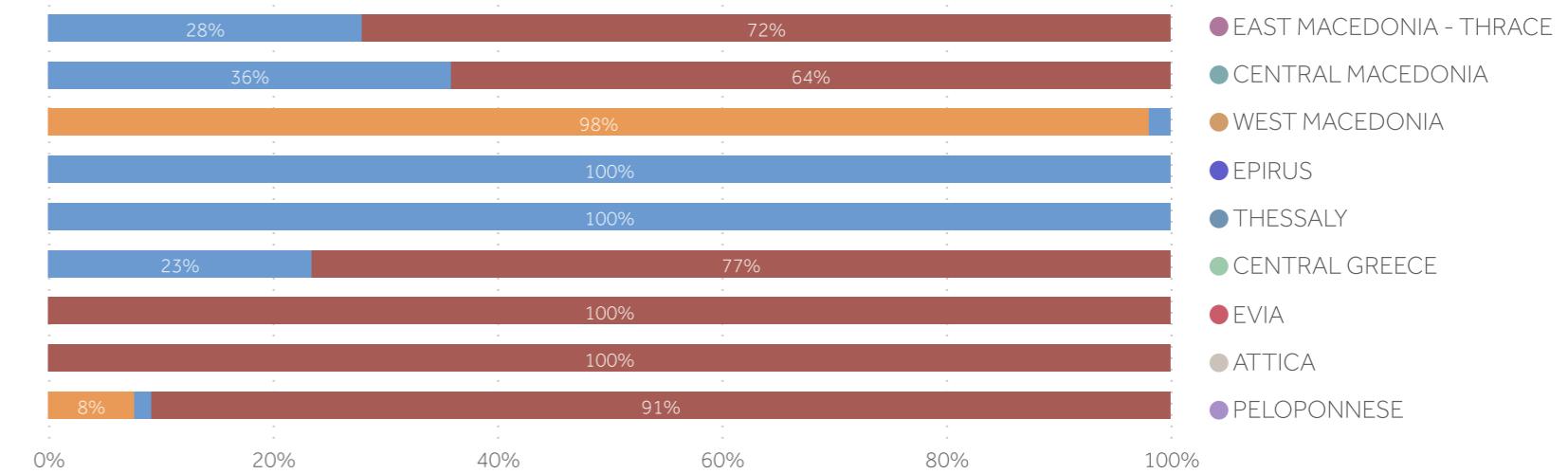
NET CAPACITY (MW) | NET GENERATION (GWh)



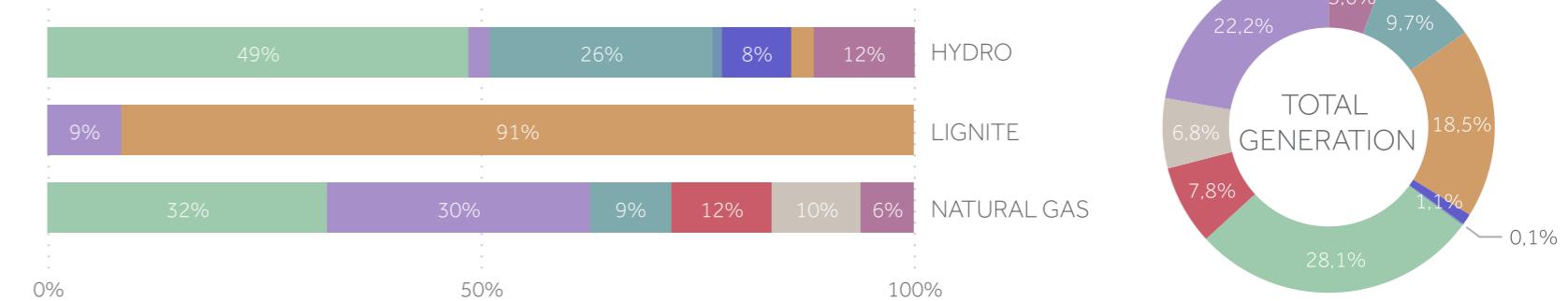
## ENERGY MIX OF CONVENTIONAL GENERATION



per geographical area (%)



## GEOGRAPHICAL DISTRIBUTION OF CONVENTIONAL GENERATION per fuel (%)



### Notes

- Generation refers to the injection point in the System.
- Generation by dispatchable co-generation units that has not been characterised as high efficiency Co-Generation is the total generation (conventional and Co-Generation).

# Geographical Distribution of System RES Generation

🔍 Annex 2.6

## GEOGRAPHICAL DISTRIBUTION OF SYSTEM RES GENERATION

NET CAPACITY (MW) | NET GENERATION (GWh)



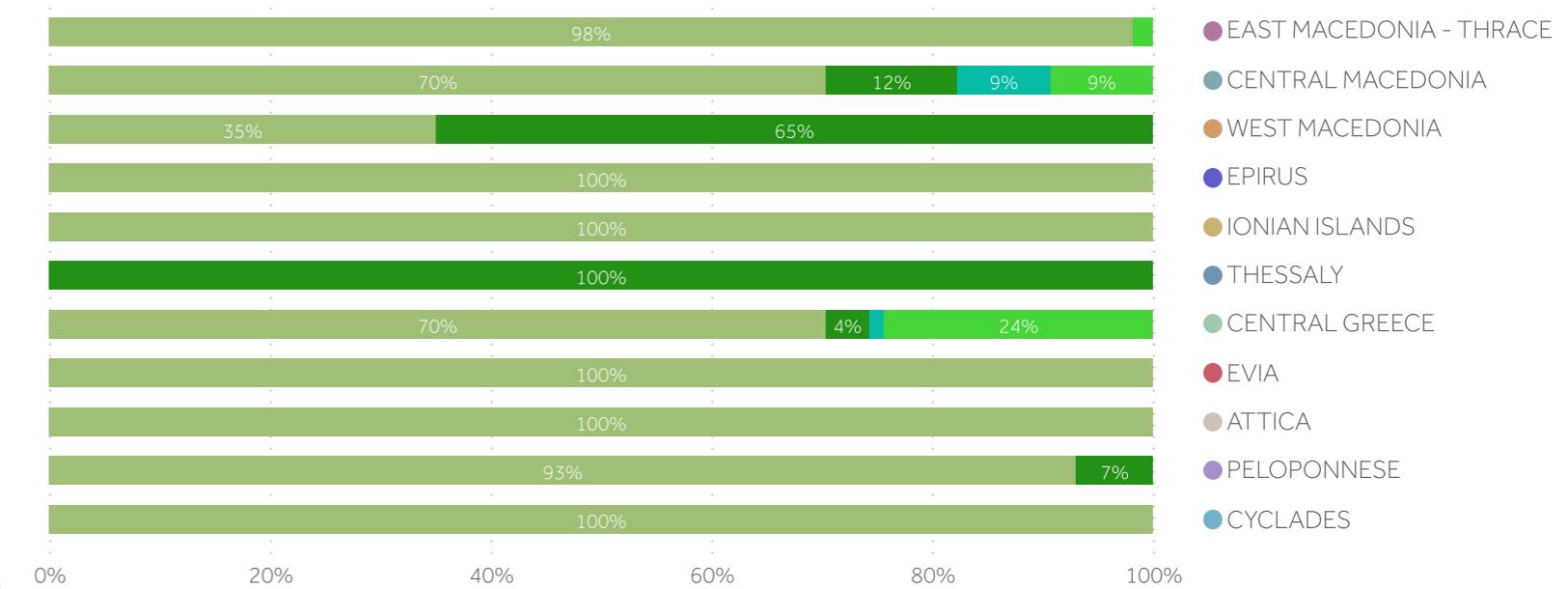
### Notes

- It includes the priority capacity of the co-generation production unit of Aluminio based on the Dispatchable RES Units Registry of the RES Operator & Guarantees of Origin (DAPEEP S.A.) and 70% of its total generation, pending relevant calculations by DAPEEP S.A.
- It includes the net capacity and net generation at the points of injection into the System from telemetered RES stations directly connected to System's substations.
- In the geographical distribution, net capacity and net generation are included in the area where the connection point of the RES station to the System is located.

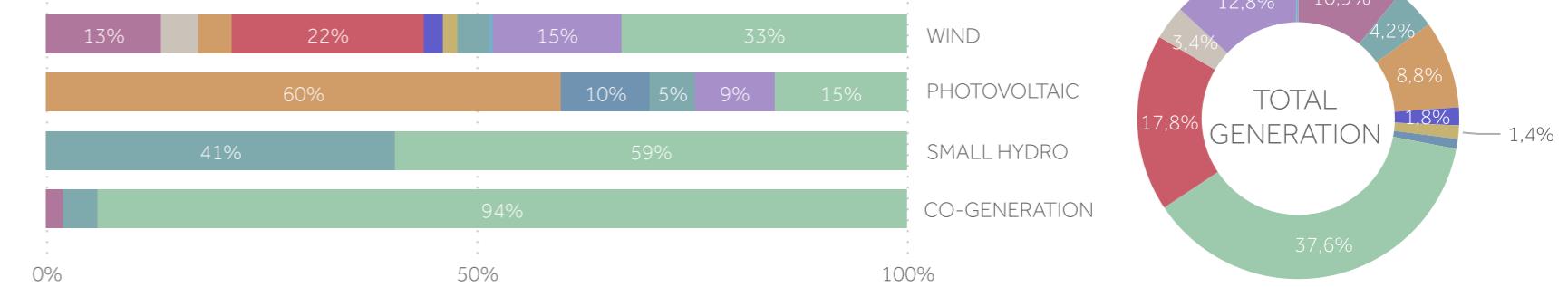
## ENERGY MIX OF SYSTEM RES GENERATION

	(MW)	%	(GWh)	%	
	3.873	85,4%	629	79,8%	WIND
	461	10,2%	76	9,6%	PHOTOVOLTAIC
	37	0,8%	7	0,9%	SMALL HYDRO
	167	3,7%	77	9,7%	CO-GENERATION
	<b>4.537</b>		<b>789</b>		

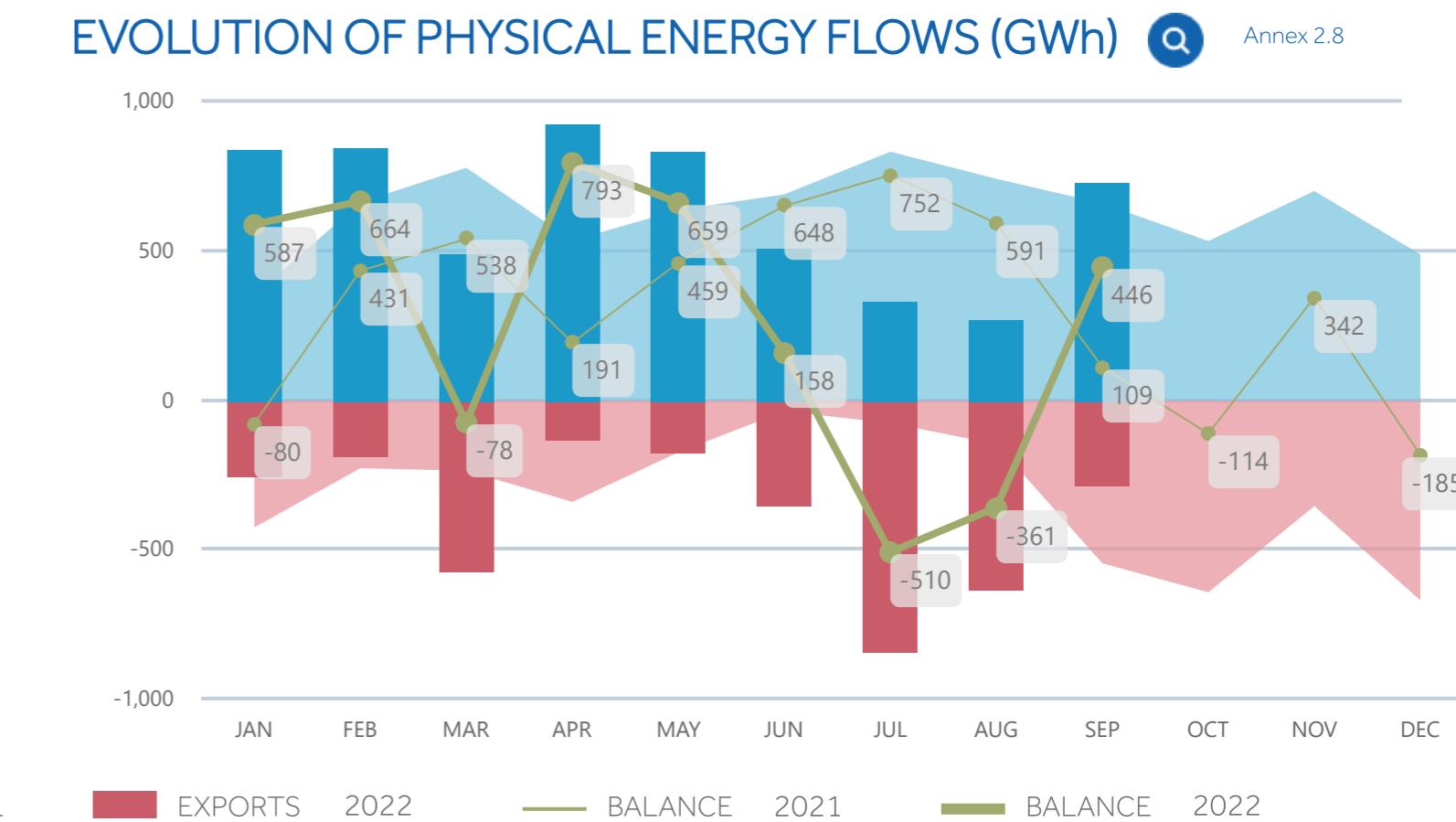
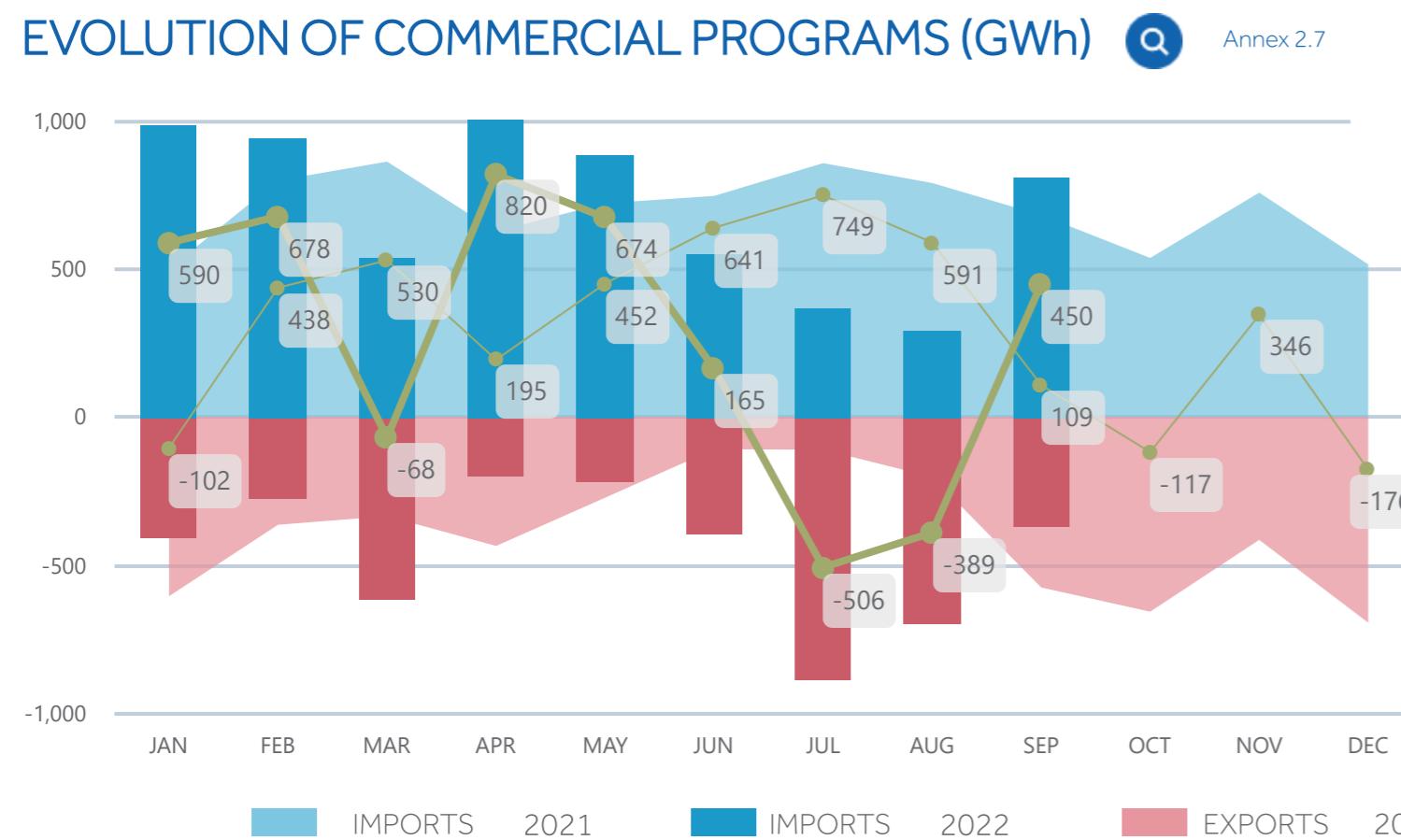
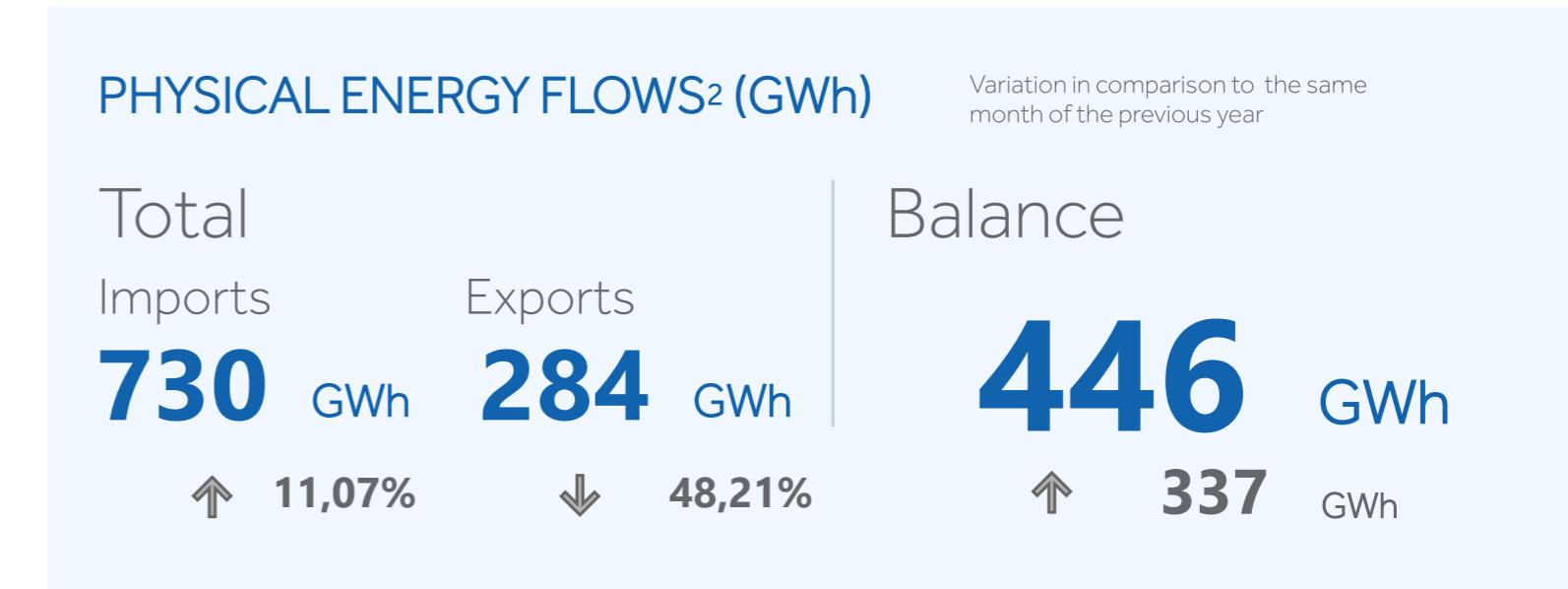
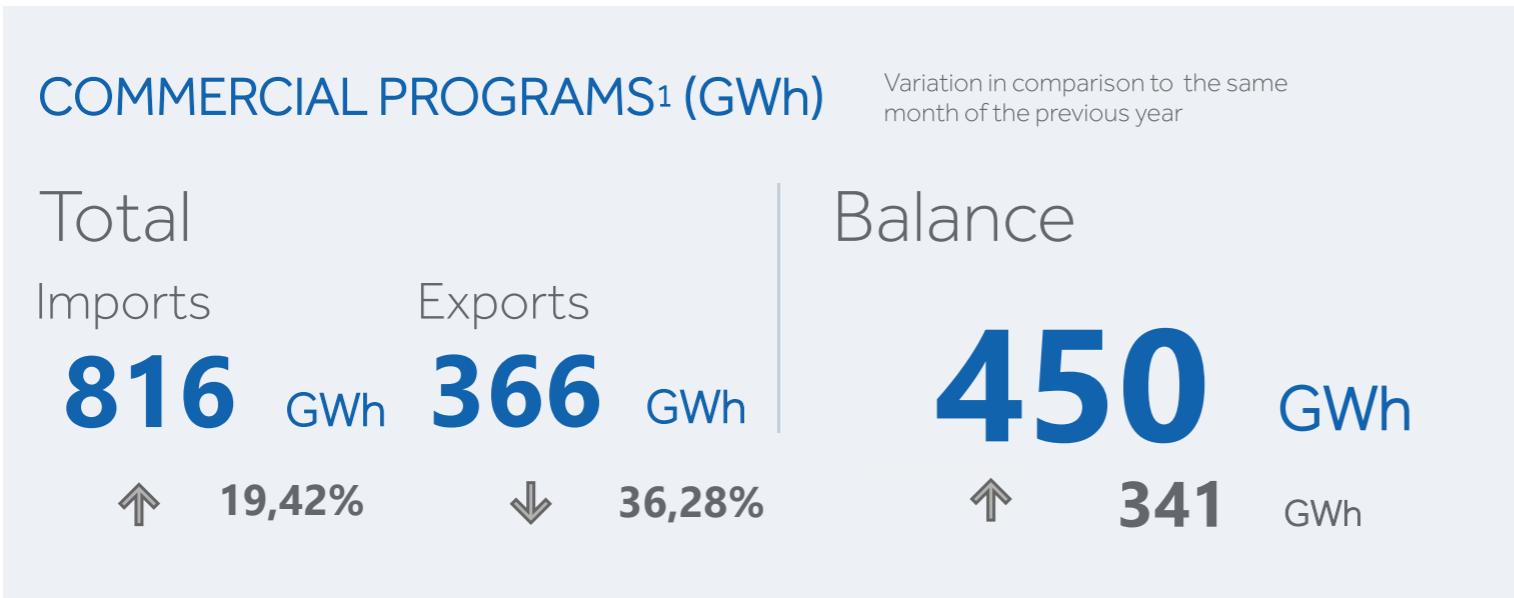
per geographical area (%)



## GEOGRAPHICAL DISTRIBUTION OF SYSTEM RES GENERATION per RES technology (%)



## Energy on Interconnections



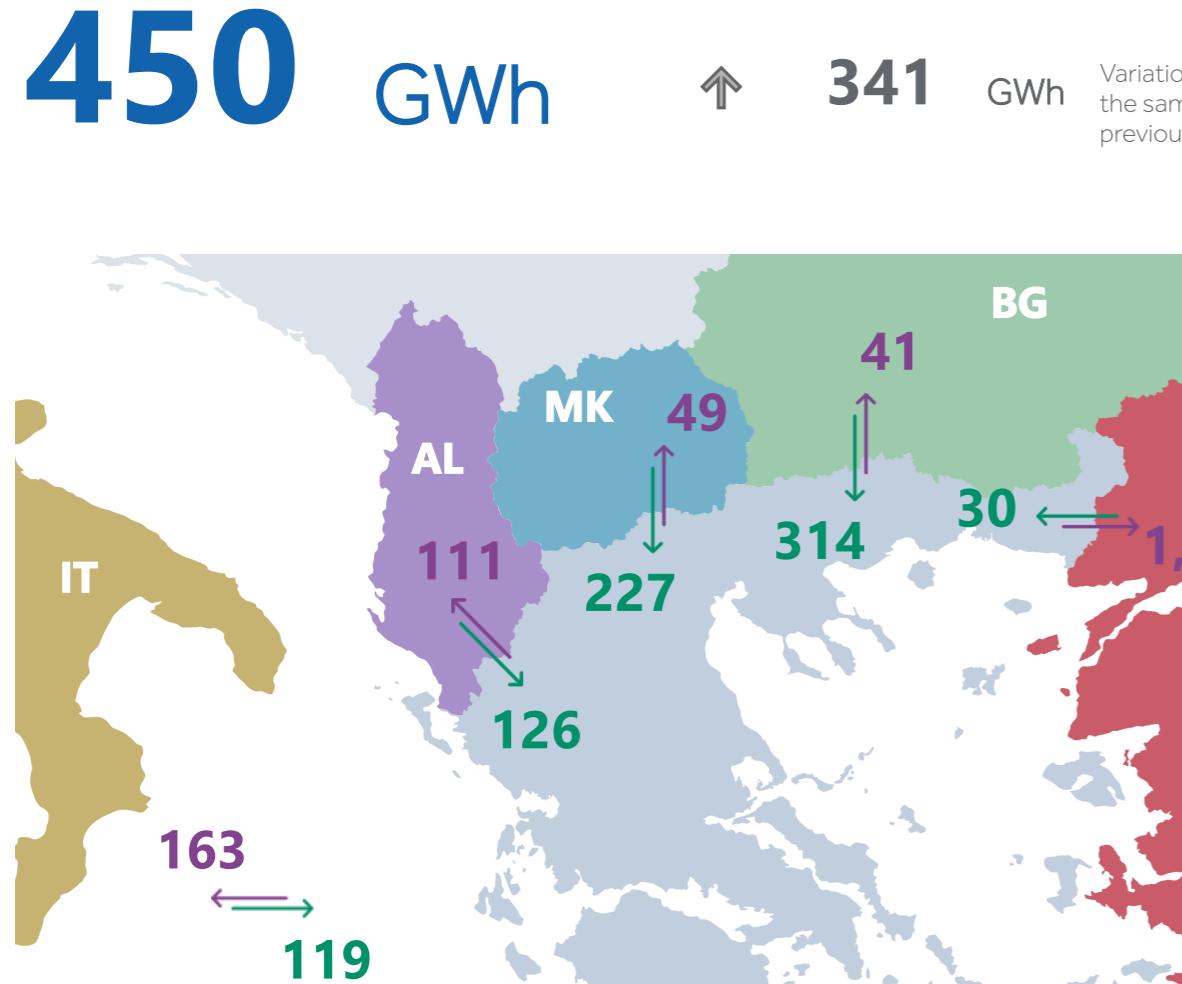
### Notes

1 Balance of commercial programs in the interconnections is calculated as the difference "Commercial Program Imports" - "Commercial Program Exports" for all the interconnections.

2 Balance of physical energy flows on the interconnections is calculated as the difference "Physical Flow Imports" - "Physical Flow Exports" for all the interconnections.

## Commercial Programs per Interconnection

### Interconnection Balance

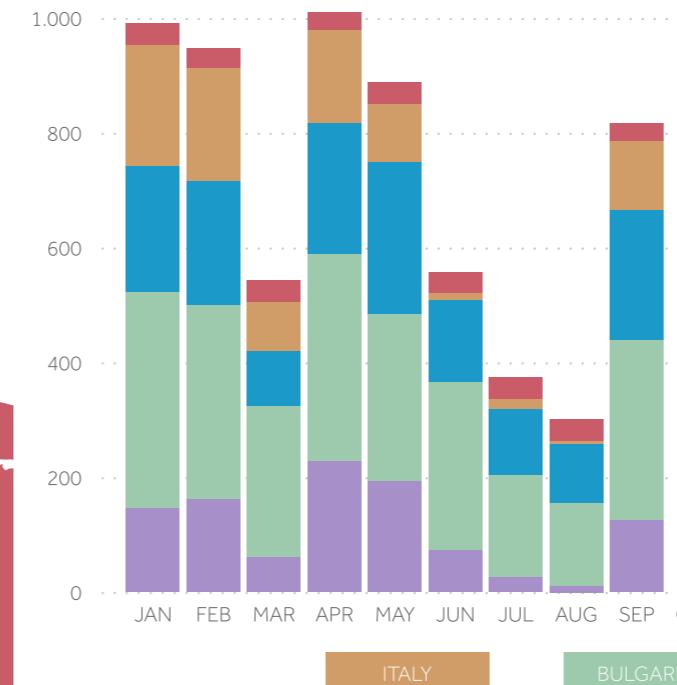


### COMMERCIAL PROGRAMS PER INTERCONNECTION

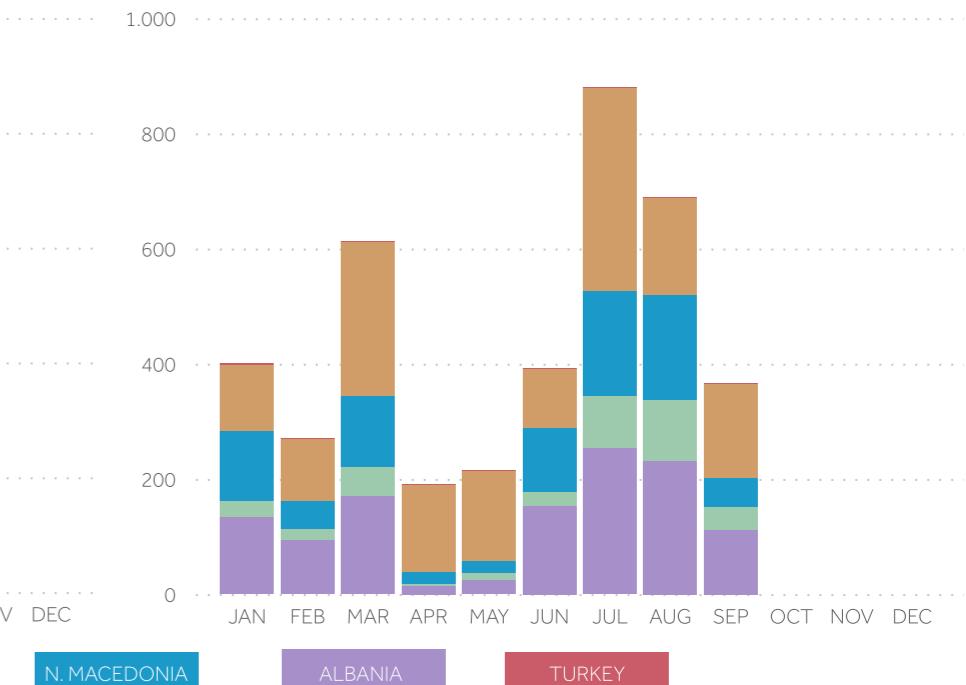


Annex 2.9-2.10

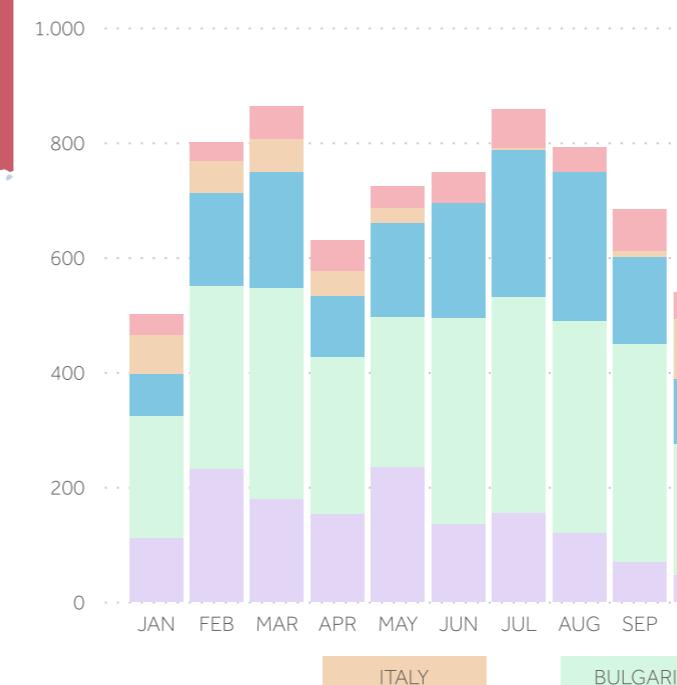
#### IMPORTS 2022



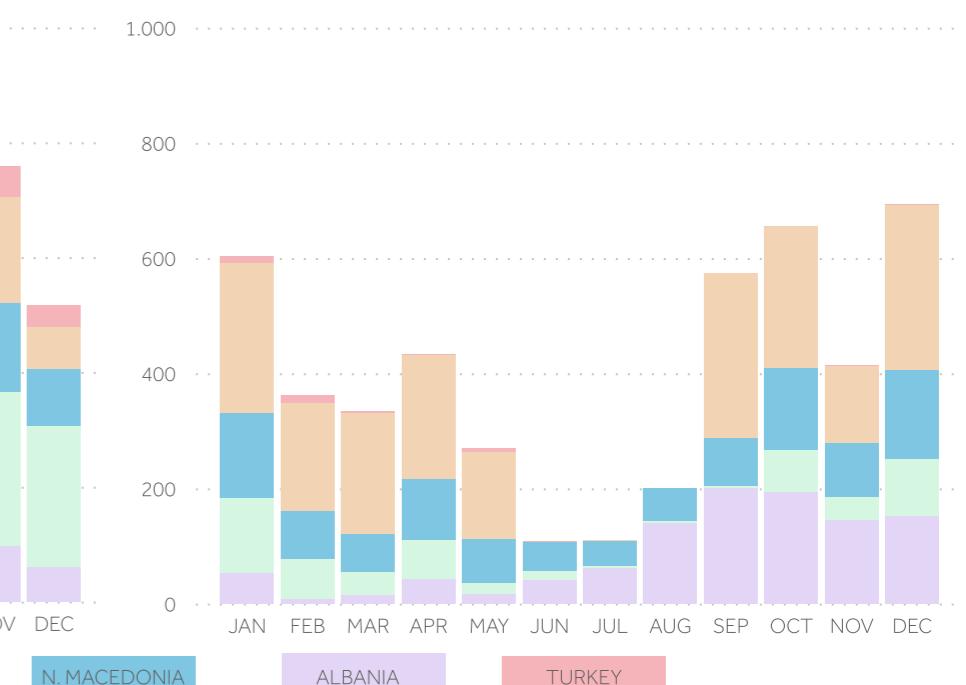
#### EXPORTS 2022



#### IMPORTS 2021



#### EXPORTS 2021



## 1.1 Demand by Consumption Category (GWh)

**2021**

MONTH	SYSTEM TO NETWORK BOUNDARY SUBSTATIONS	DEMAND SUPPLIED BY GENERATION UNITS ON THE NETWORK	HIGH VOLTAGE CONSUMERS	MINES	SELF-PRODUCTION	PUMPING	SYSTEM LOSSES	CRETE INTERCONNECTION	TOTAL DEMAND	SYSTEM DEMAND
JAN	3.327,48	410,06	567,95	28,31	23,48	13,43	114,37		4.485,08	4.075,02
FEB	2.888,72	461,75	518,86	26,62	25,56	6,98	102,67		4.031,16	3.569,41
MAR	2.966,64	556,62	543,54	30,16	23,10	0,49	95,08		4.215,63	3.659,01
APR	2.529,44	590,44	542,25	27,29	21,61	1,99	88,62		3.801,64	3.211,20
MAY	2.366,90	680,78	572,38	23,55	23,06	10,47	89,14		3.766,29	3.085,51
JUN	2.909,49	641,23	562,92	23,28	21,00	6,87	95,69		4.260,47	3.619,25
JUL	4.111,94	716,56	586,72	20,38	14,63	1,10	141,81	48,09	5.641,22	4.924,66
AUG	3.878,86	689,39	517,25	22,11	13,43	3,81	139,57	64,62	5.329,03	4.639,64
SEP	2.700,29	597,05	576,16	22,45	23,61	4,89	127,42	65,25	4.117,11	3.520,06
OCT	2.633,18	511,80	603,79	22,84	19,92	10,19	129,10	50,07	3.980,90	3.469,09
NOV	2.912,87	402,21	576,80	22,02	19,43	7,92	121,51	17,81	4.080,57	3.678,36
DEC	3.434,16	483,61	572,13	26,51	17,65	14,66	137,47	15,23	4.701,41	4.217,81
	<b>36.659,96</b>	<b>6.741,49</b>	<b>6.740,75</b>	<b>295,51</b>	<b>246,49</b>	<b>82,81</b>	<b>1.382,44</b>	<b>261,07</b>	<b>52.410,52</b>	<b>45.669,03</b>

**2022**

MONTH	SYSTEM TO NETWORK BOUNDARY SUBSTATIONS	DEMAND SUPPLIED BY GENERATION UNITS ON THE NETWORK	HIGH VOLTAGE CONSUMERS	MINES	SELF-PRODUCTION	PUMPING	SYSTEM LOSSES	CRETE INTERCONNECTION	TOTAL DEMAND	SYSTEM DEMAND
JAN	3.522,91	544,04	597,00	26,37	17,83	6,70	135,59	30,71	4.881,14	4.337,10
FEB	2.931,62	532,60	520,61	23,27	18,56	13,97	113,46	22,43	4.176,51	3.643,91
MAR	3.217,66	670,52	593,67	27,03	16,13	12,17	132,69	21,88	4.691,75	4.021,23
APR	2.157,97	766,85	560,25	23,92	26,07	28,79	97,46	36,49	3.697,80	2.930,94
MAY	2.264,01	831,88	577,75	23,28	23,58	18,46	93,17	68,73	3.900,86	3.068,98
JUN	2.739,92	812,17	548,12	21,37	19,85	16,53	112,67	58,24	4.328,86	3.516,69
JUL	3.342,34	917,51	554,78	22,30	14,25	13,21	135,30	19,79	5.019,48	4.101,98
AUG	3.169,61	796,82	500,40	21,99	13,51	12,80	114,55	31,57	4.661,26	3.864,43
SEP	2.425,32	764,06	551,63	19,33	23,19	15,88	95,75	20,70	3.915,86	3.151,80
OCT										
NOV										
DEC										
	<b>25.771,35</b>	<b>6.636,45</b>	<b>5.004,21</b>	<b>208,87</b>	<b>172,96</b>	<b>138,50</b>	<b>1.030,64</b>	<b>310,55</b>	<b>39.273,52</b>	<b>32.637,08</b>



At a glance



Energy Balance



Demand



Generation



Interconnections



Annex

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MONTHLY ENERGY BULLETIN | September 2022 | 2nd VERSION

## 1.2 Maximum and Minimum Hourly Total Demand (MW)

**2021**

MONTH	MAXIMUM TOTAL DEMAND	MAXIMUM TOTAL DEMAND DATE	MAXIMUM TOTAL DEMAND TIME	MINIMUM TOTAL DEMAND	MINIMUM TOTAL DEMAND DATE	MINIMUM TOTAL DEMAND TIME
JAN	8.754	18/01/2021	13:00	3.840	01/01/2021	6:00
FEB	8.574	16/02/2021	13:00	3.891	08/02/2021	5:00
MAR	7.567	23/03/2021	13:00	3.955	15/03/2021	6:00
APR	7.193	01/04/2021	14:00	3.618	30/04/2021	5:00
MAY	6.828	26/05/2021	13:00	3.204	03/05/2021	7:00
JUN	9.836	30/06/2021	15:00	3.778	13/06/2021	7:00
JUL	10.620	30/07/2021	14:00	5.090	25/07/2021	7:00
AUG	10.715	05/08/2021	15:00	4.856	22/08/2021	6:00
SEP	8.116	01/09/2021	14:00	4.102	12/09/2021	5:00
OCT	6.750	14/10/2021	13:00	3.934	25/10/2021	4:00
NOV	7.452	26/11/2021	13:00	3.863	07/11/2021	5:00
DEC	8.494	21/12/2021	19:00	4.245	27/12/2021	5:00

**2022**

MONTH	MAXIMUM TOTAL DEMAND	MAXIMUM TOTAL DEMAND DATE	MAXIMUM TOTAL DEMAND TIME	MINIMUM TOTAL DEMAND	MINIMUM TOTAL DEMAND DATE	MINIMUM TOTAL DEMAND TIME
JAN	9223	24/01/2022	12:00	4.057	02/01/2022	5:00
FEB	8311	03/02/2022	20:00	4.212	21/02/2022	5:00
MAR	8467	10/03/2022	14:00	4.173	28/03/2022	5:00
APR	6980	18/04/2022	21:00	3.295	25/04/2022	5:00
MAY	7220	27/05/2022	13:00	3.626	02/05/2022	7:00
JUN	8668	23/06/2022	14:00	3.988	12/06/2022	7:00
JUL	9512	28/07/2022	14:00	4.324	11/07/2022	5:00
AUG	8635	01/08/2022	14:00	4.168	15/08/2022	7:00
SEP	7574	01/09/2022	14:00	3.741	26/09/2022	4:00
OCT						
NOV						
DEC						

## 1.3 Maximum and Minimum Hourly System Demand (MW)

**2021**

MONTH	MAXIMUM SYSTEM DEMAND	MAXIMUM SYSTEM DEMAND DATE	MAXIMUM SYSTEM DEMAND TIME	MINIMUM SYSTEM DEMAND	MINIMUM SYSTEM DEMAND DATE	MINIMUM SYSTEM DEMAND TIME
JAN	8.371	19/01/2021	20:00	3.099	01/01/2021	15:00
FEB	8.153	17/02/2021	20:00	3.468	27/02/2021	15:00
MAR	7.131	23/03/2021	20:00	2.896	28/03/2021	15:00
APR	6.646	01/04/2021	21:00	2.375	30/04/2021	13:00
MAY	6.118	25/05/2021	22:00	1.728	02/05/2021	16:00
JUN	8.380	30/06/2021	22:00	2.992	13/06/2021	15:00
JUL	9.232	30/07/2021	20:00	4.135	25/07/2021	15:00
AUG	9.431	04/08/2021	22:00	3.516	15/08/2021	15:00
SEP	7.198	01/09/2021	21:00	2.904	26/09/2021	16:00
OCT	6.437	14/10/2021	20:00	2.749	03/10/2021	16:00
NOV	7.080	25/11/2021	20:00	3.295	21/11/2021	12:00
DEC	8.266	22/12/2021	20:00	3.880	27/12/2021	5:00

**2022**

MONTH	MAXIMUM SYSTEM DEMAND	MAXIMUM SYSTEM DEMAND DATE	MAXIMUM SYSTEM DEMAND TIME	MINIMUM SYSTEM DEMAND	MINIMUM SYSTEM DEMAND DATE	MINIMUM SYSTEM DEMAND TIME
JAN	8.622	27/01/2022	20:00	2.786	02/01/2022	13:00
FEB	7.937	03/02/2022	20:00	3.221	19/02/2022	13:00
MAR	8.052	10/03/2022	20:00	2.351	25/03/2022	12:00
APR	6.680	18/04/2022	21:00	1.016	24/04/2022	15:00
MAY	6.231	31/05/2022	22:00	2.412	20/05/2022	15:00
JUN	7.119	30/06/2022	22:00	2.813	19/06/2022	16:00
JUL	8.048	27/07/2022	22:00	2.877	10/07/2022	11:00
AUG	7.592	01/08/2022	22:00	2.226	15/08/2022	15:00
SEP	6.690	01/09/2022	21:00	1.982	25/09/2022	15:00
OCT						
NOV						
DEC						



At a glance



Energy Balance



Demand



Generation



Interconnections



Annex

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MONTHLY ENERGY BULLETIN | September 2022 | 2nd VERSION

## 1.4 Average Hourly Total Demand and System Demand (MW) Working Days of Month

**2021**

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	4.881	5.080
2	4.592	4.796
3	4.459	4.665
4	4.385	4.591
5	4.354	4.561
6	4.417	4.625
7	4.711	4.919
8	5.086	5.348
9	5.271	5.926
10	5.140	6.376
11	4.917	6.638
12	4.750	6.793
13	4.693	6.910
14	4.672	6.915
15	4.553	6.702
16	4.486	6.401
17	4.655	6.209
18	5.111	6.180
19	5.672	6.207
20	6.139	6.373
21	6.430	6.637
22	6.040	6.245
23	5.519	5.722
24	5.248	5.448

**2022**

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	4.529	4.718
2	4.304	4.490
3	4.171	4.354
4	4.119	4.300
5	4.100	4.284
6	4.197	4.379
7	4.440	4.622
8	4.741	5.000
9	4.731	5.548
10	4.396	5.995
11	4.021	6.258
12	3.776	6.452
13	3.696	6.603
14	3.653	6.605
15	3.568	6.402
16	3.581	6.102
17	3.839	5.881
18	4.420	5.822
19	5.157	5.814
20	5.702	5.934
21	5.985	6.178
22	5.615	5.806
23	5.131	5.316
24	4.904	5.087

## 1.5 Hourly Total Demand and System Demand (MW) Date of Monthly Maximum and Minimum

Date of Maximum

01/09/2022

Date of Minimum

26/09/2022

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	5.265	5.380
2	4.958	5.076
3	4.723	4.841
4	4.668	4.789
5	4.582	4.701
6	4.757	4.868
7	4.765	4.876
8	5.002	5.231
9	5.045	5.901
10	4.801	6.488
11	4.483	6.847
12	4.348	7.159
13	4.337	7.405
14	4.477	7.574
15	4.461	7.371
16	4.498	7.064
17	4.742	6.806
18	5.387	6.731
19	6.010	6.661
20	6.374	6.575
21	6.690	6.815
22	6.372	6.488
23	5.897	6.008
24	5.744	5.852

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	3.917	4.059
2	3.795	3.932
3	3.665	3.795
4	3.608	3.741
5	3.630	3.761
6	3.770	3.895
7	4.051	4.172
8	4.417	4.597
9	4.311	5.101
10	3.963	5.498
11	3.680	5.727
12	3.315	5.890
13	3.189	5.993
14	3.193	5.994
15	3.173	5.798
16	3.457	5.499
17	3.819	5.326
18	4.407	5.324
19	4.945	5.375
20	5.438	5.659
21	5.619	5.840
22	5.247	5.482
23	4.720	4.968
24	4.417	4.662

## 1.6 Analysis of Load Representatives' Supply (GWh)

LOAD REPRESENTATIVE	2022-01	2022-02	2022-03	2022-04	2022-05	2022-06	2022-07	2022-08	2022-09	TOTAL
PPC	3.022,3	2.584,2	2.908,7	2.258,9	2.366,8	2.607,1	3.061,5	2.842,3	2.310,4	<b>23.962,3</b>
MYTILINEOS	322,8	282,0	316,4	255,3	275,6	317,0	359,2	331,5	333,3	<b>2.793,1</b>
HERON	298,6	267,4	293,2	237,1	254,0	289,3	336,2	309,0	277,4	<b>2.562,2</b>
ELPEDISON	276,7	233,8	266,6	234,9	236,4	257,2	303,6	286,7	245,4	<b>2.341,3</b>
NRG	200,8	171,5	194,1	150,2	163,3	188,7	220,3	202,9	176,4	<b>1.668,2</b>
WATT AND VOLT	117,0	93,8	101,9	72,7	73,8	86,8	106,2	98,3	76,0	<b>826,5</b>
ATTIKI GSC	98,5	83,1	91,3	73,2	79,2	91,1	103,8	96,8	89,0	<b>806,1</b>
VOLTERRA	87,1	83,3	90,8	74,9	81,6	91,0	99,8	92,7	88,6	<b>789,7</b>
ZENITH	92,8	75,7	85,8	62,1	63,2	74,7	93,4	86,9	68,6	<b>703,2</b>
VOLTON	73,8	59,3	68,1	49,6	49,2	55,4	65,3	59,2	42,6	<b>522,6</b>
PPC_USP	41,2	33,3	37,3	26,1	25,7	29,4	33,5	32,8	27,0	<b>286,4</b>
KEN	33,8	29,2	36,1	29,7	29,5	31,2	37,0	33,6	24,8	<b>284,8</b>
ELTA	12,7	10,8	11,2	8,0	8,1	10,1	12,0	10,8	7,5	<b>91,4</b>
ELINOIL	9,5	8,8	9,3	8,0	8,4	8,7	9,6	10,9	9,7	<b>83,0</b>
VIENER	8,5	8,5	8,6	6,8	7,7	8,8	7,6	6,2	7,4	<b>70,0</b>
EUNICE TRAD	3,7	3,3	3,9	3,2	3,8	4,6	5,1	4,9	4,7	<b>37,2</b>
OTE	2,6	2,2	2,4	2,0	2,0	1,2	2,2	2,2	1,8	<b>18,6</b>
LIG. MEGALOP	2,9	2,2	2,3	2,7	3,3	0,4				<b>13,8</b>
LIG. MELITIS	1,9	2,1	2,6	3,0	3,0	0,3				<b>12,9</b>
MYTILINEOS_USP	1,3	1,1	1,2	0,9	0,8	1,0	1,9	1,8	1,5	<b>11,5</b>
SOLAR ENERGY	1,1	1,0	1,3	1,0	1,1	1,2	1,6	1,3	1,3	<b>10,9</b>
ELPEDISON_USP	1,1	0,9	1,0	0,7	0,7	0,8	1,8	1,7	1,4	<b>10,1</b>
HERON_USP	1,2	1,0	1,1	0,8	0,8	0,9	1,5	1,4	1,2	<b>9,9</b>
NRG_USP	0,5	0,4	0,4	0,3	0,3	0,3	1,0	1,0	0,8	<b>5,0</b>
MARKOU	0,6	0,7	0,8	0,4	0,1	0,1	0,1	0,1	1,6	<b>4,3</b>
KOR_POWER	0,4	0,3	0,3	0,5	0,3	0,2	0,1	0,1	0,2	<b>2,5</b>
HERON2_V	0,5	0,3	0,0	0,6	0,3	0,2	0,1	0,0	0,1	<b>2,1</b>
VIOLAR	0,4	0,2	0,2	0,1	0,1	0,1	0,1	0,1	0,7	<b>1,9</b>
GREEN	0,3	0,2	0,2							<b>0,7</b>
SLR	0,0	0,0	0,0	0,1	0,0	0,1	0,0	0,0	0,0	<b>0,2</b>
<b>TOTAL</b>	<b>4.714,8</b>	<b>4.040,6</b>	<b>4.537,2</b>	<b>3.563,8</b>	<b>3.739,0</b>	<b>4.158,0</b>	<b>4.864,4</b>	<b>4.515,1</b>	<b>3.799,4</b>	<b>37.932,3</b>



At a glance



Energy Balance



Demand



Generation



Interconnections



Annex

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MONTHLY ENERGY BULLETIN | September 2022 | 2nd VERSION

## 1.7 Monthly Market Share of Load Representatives per voltage level (GWh/%)

LOAD REPRESENTATIVE	HV(GWh)	HV(%)	MV(GWh)	MV(%)	LV(GWh)	LV(%)	TOTAL(GWh)	TOTAL(%)
PPC	489,14	80,18%	381,17	38,86%	1.440,12	65,21%	2.310,43	60,81%
MYTILINEOS	44,75	7,34%	148,78	15,17%	139,75	6,33%	333,28	8,77%
HERON	4,49	0,74%	138,92	14,16%	134,00	6,07%	277,42	7,30%
ELPEDISON	70,94	11,63%	69,24	7,06%	105,19	4,76%	245,37	6,46%
NRG	0,11	0,02%	83,01	8,46%	93,27	4,22%	176,39	4,64%
ATTIKI GSC	0,00	0,00%	45,28	4,62%	43,74	1,98%	89,03	2,34%
VOLTERRA	0,25	0,04%	67,25	6,86%	21,09	0,95%	88,59	2,33%
WATT AND VOLT	0,00	0,00%	9,46	0,96%	66,55	3,01%	76,01	2,00%
ZENITH	0,00	0,00%	5,27	0,54%	63,35	2,87%	68,62	1,81%
VOLTION	0,00	0,00%	5,05	0,51%	37,57	1,70%	42,62	1,12%
PPC_USP	0,00	0,00%	0,00	0,00%	27,00	1,22%	27,00	0,71%
KEN	0,00	0,00%	2,85	0,29%	21,90	0,99%	24,75	0,65%
ELINOIL	0,00	0,00%	7,66	0,78%	2,04	0,09%	9,70	0,26%
ELTA	0,00	0,00%	3,12	0,32%	4,38	0,20%	7,50	0,20%
VIENER	0,00	0,00%	7,44	0,76%	0,00	0,00%	7,44	0,20%
EUNICE TRAD	0,01	0,00%	2,47	0,25%	2,20	0,10%	4,68	0,12%
OTE	0,00	0,00%	1,03	0,10%	0,80	0,04%	1,83	0,05%
MARKOU	0,00	0,00%	1,61	0,16%	0,00	0,00%	1,61	0,04%
MYTILINEOS_USP	0,00	0,00%	0,00	0,00%	1,45	0,07%	1,45	0,04%
ELPEDISON_USP	0,00	0,00%	0,00	0,00%	1,39	0,06%	1,39	0,04%
SOLAR ENERGY	0,00	0,00%	0,66	0,07%	0,66	0,03%	1,33	0,03%
HERON_USP	0,00	0,00%	0,00	0,00%	1,15	0,05%	1,15	0,03%
NRG_USP	0,00	0,00%	0,00	0,00%	0,81	0,04%	0,81	0,02%
VIOLAR	0,00	0,00%	0,67	0,07%	0,01	0,00%	0,67	0,02%
KOR_POWER	0,21	0,04%	0,00	0,00%	0,00	0,00%	0,21	0,01%
HERON2_V	0,13	0,02%	0,00	0,00%	0,00	0,00%	0,13	0,00%
<b>TOTAL</b>	<b>610,03</b>	<b>100,00%</b>	<b>980,96</b>	<b>100,00%</b>	<b>2.208,42</b>	<b>100,00%</b>	<b>3.799,41</b>	<b>100,00%</b>

## 2.1 Evolution of Energy Mix (GWh)

**2021**

MONTH	LIGNITE	NATURAL GAS	HYDRO	OTHER FUEL	SYSTEM RES	NETWORK RES	CRETE INTERCONNECTION (RES)	CONVENTIONAL GENERATION	SYSTEM GENERATION	TOTAL GENERATION
JAN	582,29	1.632,02	742,33	1,34	1.196,56	410,06	0,00	2.957,98	4.154,54	4.564,60
FEB	517,47	860,84	864,36	1,12	894,19	461,75	0,00	2.243,79	3.137,98	3.599,73
MAR	644,07	1.341,46	275,24	1,18	858,81	556,62	0,00	2.261,95	3.120,76	3.677,38
APR	411,78	1.614,59	217,61	1,33	775,22	590,44	0,00	2.245,31	3.020,53	3.610,97
MAY	363,37	1.220,89	327,66	1,57	713,41	680,78	0,00	1.913,49	2.626,89	3.307,67
JUN	253,90	1.947,59	366,87	1,68	400,72	641,23	0,00	2.570,04	2.970,75	3.611,98
JUL	458,76	2.406,90	499,77	1,81	805,71	716,56	0,00	3.367,24	4.172,95	4.889,51
AUG	622,20	2.254,44	458,92	1,69	711,66	689,39	0,00	3.337,25	4.048,91	4.738,30
SEP	357,92	1.991,02	240,40	2,13	819,14	597,05	0,00	2.591,47	3.410,60	4.007,65
OCT	361,53	1.897,81	253,16	2,06	1.068,13	511,80	0,00	2.514,56	3.582,69	4.094,49
NOV	296,69	1.818,20	233,43	2,13	981,95	402,21	3,92	2.350,45	3.336,32	3.738,53
DEC	470,82	1.887,55	814,27	2,25	1.225,63	483,61	2,23	3.174,88	4.402,74	4.886,35
	<b>5.340,79</b>	<b>20.873,30</b>	<b>5.294,02</b>	<b>20,28</b>	<b>10.451,13</b>	<b>6.741,49</b>	<b>6,15</b>	<b>31.528,39</b>	<b>41.985,67</b>	<b>48.727,15</b>

**2022**

MONTH	LIGNITE	NATURAL GAS	HYDRO	OTHER FUEL	SYSTEM RES	NERWORK RES	CRETE INTERCONNECTION (RES)	CONVENTIONAL GENERATION	SYSTEM GENERATION	TOTAL GENERATION
JAN	509,09	1.566,93	682,67	2,20	986,99	544,04	2,33	2.760,90	3.750,21	4.294,25
FEB	412,58	1.483,14	205,77	2,03	874,82	532,60	1,47	2.103,53	2.979,82	3.512,42
MAR	671,61	2.070,20	337,68	2,03	1.016,52	670,52	1,30	3.081,53	4.099,35	4.769,86
APR	176,13	827,20	228,32	1,92	902,05	766,85	2,02	1.233,57	2.137,64	2.904,49
MAY	222,83	1.184,08	312,27	2,21	687,77	831,88	0,38	1.721,39	2.409,54	3.241,41
JUN	468,10	1.627,53	379,16	2,34	880,93	812,17	0,43	2.477,12	3.358,49	4.170,65
JUL	739,38	2.249,90	447,56	2,40	1.171,81	917,51	1,11	3.439,24	4.612,16	5.529,66
AUG	794,90	2.141,67	429,49	2,45	856,81	796,82	0,32	3.368,52	4.225,65	5.022,47
SEP	394,23	1.249,57	269,58	2,36	788,58	764,06	1,32	1.915,74	2.705,64	3.469,70
OCT										
NOV										
DEC										
	<b>4.388,85</b>	<b>14.400,24</b>	<b>3.292,51</b>	<b>19,94</b>	<b>8.166,28</b>	<b>6.636,45</b>	<b>10,67</b>	<b>22.101,53</b>	<b>30.278,48</b>	<b>36.914,93</b>



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## 2.2 Analysis of Conventional Generation per Producer (GWh/%)

PRODUCER	NET GENERATION (GWh)	NET GENERATION (%)	NET CAPACITY (MW)	NET CAPACITY (%)
PPC	1.239,17	62,41%	8.058,86	75,75%
HERON2_V	206,77	10,41%	422,14	3,97%
KOR_POWER	194,91	9,82%	433,46	4,07%
MYTILINEOS	183,68	9,25%	766,70	7,21%
ELPEDISON	160,91	8,10%	810,18	7,62%
HERON	0,07	0,00%	147,76	1,39%
<b>TOTAL</b>	<b>1.985,51</b>	<b>100,00%</b>	<b>10.639,11</b>	<b>100,00%</b>

## 2.3 Evolution of Conventional Generation per Producer (GWh)

PRODUCER	2022-01	2022-02	2022-03	2022-04	2022-05	2022-06	2022-07	2022-08	2022-09	TOTAL
PPC	1.797,9	1.167,4	1.861,7	801,0	1.035,1	1.577,7	2.338,2	2.219,2	1.239,2	<b>14.037,4</b>
ELPEDISON	257,0	278,9	350,4	220,7	160,2	282,4	357,0	373,7	160,9	<b>2.441,1</b>
MYTILINEOS	293,3	240,2	310,2	124,9	198,7	318,9	380,0	373,0	183,7	<b>2.422,8</b>
HERON 2 VIOTIAS	132,5	146,4	247,8	106,4	161,8	172,0	230,4	243,2	206,8	<b>1.647,3</b>
KORINTHOS POWER	177,3	167,0	186,1	41,1	170,4	199,8	229,2	240,2	194,9	<b>1.605,9</b>
LIG. MEGALOPOLIS	86,2	105,7	122,1	0,0	33,3	4,0				<b>351,2</b>
LIG. MELITIS	94,8	61,6	70,4	0,0	28,9	0,0				<b>255,8</b>
HERON	0,4	0,1	3,7	0,0	0,0	0,1	0,6	0,1	0,1	<b>5,1</b>
<b>TOTAL</b>	<b>2.839,3</b>	<b>2.167,3</b>	<b>3.152,4</b>	<b>1.294,0</b>	<b>1.788,3</b>	<b>2.555,0</b>	<b>3.535,3</b>	<b>3.449,4</b>	<b>1.985,5</b>	<b>22.766,6</b>

## 2.4 Net Generation - Net Capacity of Conventional Production Units in the System

PRODUCTION UNIT	PRODUCER	FUEL/TECHNOLOGY	NET CAPACITY (MW)	NET GENERATION (GWh)	UTILISATION COEFFICIENT (%)
AGIOS DIMITRIOS1	PPC	LIGNITE	274,00	8,42	4,27%
AGIOS DIMITRIOS2	PPC	LIGNITE	274,00	8,05	4,08%
AGIOS DIMITRIOS3	PPC	LIGNITE	283,00	59,73	29,32%
AGIOS DIMITRIOS4	PPC	LIGNITE	283,00	47,75	23,43%
AGIOS DIMITRIOS5	PPC	LIGNITE	342,00	150,29	61,03%
MEGALOPOLI3	PPC	LIGNITE	255,00	0,00	0,00%
MEGALOPOLI4	PPC	LIGNITE	256,00	33,71	18,29%
MELITI	PPC	LIGNITE	289,00	86,28	41,46%
AGRAS	PPC	HYDRO	50,00	1,95	5,43%
AOOS	PPC	HYDRO	210,00	12,04	7,96%
ASOMATA	PPC	HYDRO	108,00	11,34	14,58%
EDESSAIOS	PPC	HYDRO	19,00	1,59	11,60%
ILARIONAS	PPC	HYDRO	153,00	7,00	6,35%
KASTRAKI	PPC	HYDRO	320,00	46,24	20,07%
KREMASTA	PPC	HYDRO	437,20	66,61	21,16%
LADONAS	PPC	HYDRO	70,00	6,71	13,32%
PLASTIRAS	PPC	HYDRO	129,90	2,92	3,13%
PLATANOVRYSI	PPC	HYDRO	116,00	7,87	9,42%
POLYFYTO	PPC	HYDRO	375,00	34,69	12,85%
POURNARI1	PPC	HYDRO	300,00	8,43	3,90%
POURNARI2	PPC	HYDRO	33,60	0,89	3,67%
SFIKIA	PPC	HYDRO	315,00	19,92	8,78%
STRATOS1	PPC	HYDRO	150,00	18,08	16,74%
THESAVROS	PPC	HYDRO	384,00	23,30	8,43%
ALIVERI5	PPC	NATURAL GAS	417,00	154,20	51,36%
ALOUMINIO	MYTILINEOS	NATURAL GAS	334,00	103,04	42,85%
ELPEDISON THESS	ELPEDISON	NATURAL GAS	400,18	124,09	43,07%
ELPEDISON THISVI	ELPEDISON	NATURAL GAS	410,00	36,82	12,47%
HERON CC	HERON2_V	NATURAL GAS	422,14	206,77	68,03%
KOMOTINI	PPC	NATURAL GAS	476,30	80,27	23,41%
KORINTHOS POWER	KOR_POWER	NATURAL GAS	433,46	194,91	62,45%
LAVRIO4	PPC	NATURAL GAS	550,20	50,05	12,64%
LAVRIO5	PPC	NATURAL GAS	377,66	85,61	31,48%
MEGALOPOLIS	PPC	NATURAL GAS	811,00	205,23	35,15%
PROTERGIA CC	MYTILINEOS	NATURAL GAS	432,70	80,64	25,88%
HERON1	HERON	NATURAL GAS	49,25	0,04	0,10%
HERON2	HERON	NATURAL GAS	49,25	0,02	0,06%
HERON3	HERON	NATURAL GAS	49,25	0,01	0,03%
<b>TOTAL</b>			<b>10.639,11</b>	<b>1.985,51</b>	<b>25,92%</b>

### Notes

- Generation refers to the injection point in the System.
- Generation for the dispatchable co-generation units that has not been characterised as high efficiency Co-Generation is the total generation (conventional and Co-Generation).
- Utilisation coefficient is the ratio of the monthly electricity generation to the maximum possible electricity generation during this period.

## 2.5 Geographical Distribution of Conventional Generation

FUEL AREA	HYDRO		LIGNITE		NATURAL GAS		TOTAL	
	NET GENERATION (GWh)	NET CAPACITY (MW)	NET GENERATION (GWh)	NET CAPACITY (MW)	NET GENERATION (GWh)	NET CAPACITY (MW)	NET GENERATION (GWh)	NET CAPACITY (MW)
ATTICA					135,66	928	<b>135,66</b>	<b>928</b>
CENTRAL GREECE	130,93	907			427,34	1.747	<b>558,27</b>	<b>2.654</b>
CENTRAL MACEDONIA	69,49	867			124,09	400	<b>193,58</b>	<b>1.267</b>
EAST MACEDONIA - THRACE	31,16	500			80,27	476	<b>111,43</b>	<b>976</b>
EPIRUS	21,36	544					<b>21,36</b>	<b>544</b>
EVIA					154,20	417	<b>154,20</b>	<b>417</b>
PELOPONNESE	6,71	70	33,71	511	400,14	1.244	<b>440,56</b>	<b>1.825</b>
THESSALY	2,92	130					<b>2,92</b>	<b>130</b>
WEST MACEDONIA	7,00	153	360,52	1.745			<b>367,52</b>	<b>1.898</b>
<b>TOTAL</b>	<b>269,58</b>	<b>3.171</b>	<b>394,23</b>	<b>2.256</b>	<b>1.321,70</b>	<b>5.212</b>	<b>1.985,51</b>	<b>10.639</b>

### Notes

- Generation refers to the injection point in the System.
- Generation by dispatchable co-generation units that has not been characterised as high efficiency Co-Generation. is the total generation (conventional and Co-Generation).

## 2.6 Geographical Distribution of System RES Generation

RES TECHNOLOGY AREA	CO-GENERATION		PHOTOVOLTAIC		SMALL HYDRO		WIND		TOTAL	
	NET GENERATION (GWh)	NET CAPACITY (MW)								
ATTICA							27,05	148	<b>27,05</b>	<b>148</b>
CENTRAL GREECE	72,13	133	11,63	63	4,12	20	208,67	1.319	<b>296,55</b>	<b>1.535</b>
CENTRAL MACEDONIA	3,05	16	3,91	29	2,80	11	23,21	127	<b>32,97</b>	<b>182</b>
CYCLADES							2,21	15	<b>2,21</b>	<b>15</b>
EAST MACEDONIA - THRACE	1,54	18					84,16	518	<b>85,69</b>	<b>535</b>
EPIRUS							14,17	104	<b>14,17</b>	<b>104</b>
EVIA							140,57	677	<b>140,57</b>	<b>677</b>
IONIAN ISLANDS							10,71	93	<b>10,71</b>	<b>93</b>
PELOPONNESE			7,01	47			94,09	705	<b>101,10</b>	<b>751</b>
THESSALY			7,86	48	0,00	6			<b>7,86</b>	<b>54</b>
WEST MACEDONIA			45,26	274			24,41	167	<b>69,68</b>	<b>442</b>
<b>TOTAL</b>	<b>76,71</b>	<b>167</b>	<b>75,68</b>	<b>461</b>	<b>6,92</b>	<b>37</b>	<b>629,26</b>	<b>3.873</b>	<b>788,58</b>	<b>4.537</b>

### Notes

- It includes the priority capacity of the co-generation production unit of Alouminio based on the Dispatchable RES Units Registry of the RES Operator & Guarantees of Origin (DAPEEP S.A.) and 70% of its total generation, pending relevant calculations by DAPEEP S.A.
- It includes the net capacity and net generation at the points of injection into the System from telemetered RES stations directly connected to System's substations.
- In the geographical distribution, net capacity and net generation are included in the area where the connection point of the RES station to the System is located.



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## 2.7 Evolution of Commercial Programs (GWh)

**2021**

MONTH	EXPORTS (GWh)	IMPORTS (GWh)	BALANCE (GWh)
JAN	603,121	500,909	-102,212
FEB	361,974	799,830	437,856
MAR	333,074	863,418	530,344
APR	433,611	628,443	194,832
MAY	270,759	722,757	451,998
JUN	107,078	747,669	640,591
JUL	108,866	858,307	749,441
AUG	200,692	791,192	590,500
SEP	573,718	682,957	109,239
OCT	655,357	538,387	-116,970
NOV	413,115	758,753	345,638
DEC	692,690	516,846	-175,844
<b>TOTAL</b>	<b>4.754,055</b>	<b>8.409,468</b>	<b>3.655,413</b>

**2022**

MONTH	EXPORTS (GWh)	IMPORTS (GWh)	BALANCE (GWh)
JAN	400,744	990,513	589,769
FEB	269,469	947,492	678,023
MAR	612,120	543,888	-68,232
APR	190,996	1.010,597	819,601
MAY	214,245	888,629	674,384
JUN	391,646	556,808	165,162
JUL	879,519	373,762	-505,757
AUG	688,884	300,186	-388,698
SEP	365,574	815,584	450,010
OCT			
NOV			
DEC			
<b>TOTAL</b>	<b>4.013,197</b>	<b>6.427,459</b>	<b>2.414,262</b>

## 2.8 Evolution of Physical Energy Flows (GWh)

**2021**

MONTH	EXPORTS (GWh)	IMPORTS (GWh)	BALANCE (GWh)
JAN	427,568	348,052	-79,516
FEB	229,332	660,764	431,432
MAR	237,730	775,981	538,251
APR	342,065	532,735	190,670
MAY	175,949	634,568	458,618
JUN	38,741	687,232	648,491
JUL	78,177	829,893	751,716
AUG	148,522	739,258	590,735
SEP	547,523	656,978	109,456
OCT	644,564	530,967	-113,597
NOV	356,218	698,259	342,041
DEC	671,301	486,369	-184,932
<b>TOTAL</b>	<b>3.897,691</b>	<b>7.581,057</b>	<b>3.683,366</b>

**2022**

MONTH	EXPORTS (GWh)	IMPORTS (GWh)	BALANCE (GWh)
JAN	254,203	841,095	586,892
FEB	183,817	847,909	664,091
MAR	569,589	491,477	-78,112
APR	132,667	925,971	793,304
MAY	175,224	834,672	659,447
JUN	350,938	509,147	158,209
JUL	841,402	331,219	-510,183
AUG	635,908	274,693	-361,214
SEP	283,579	729,737	446,158
OCT			
NOV			
DEC			
<b>TOTAL</b>	<b>3.427,327</b>	<b>5.785,919</b>	<b>2.358,592</b>





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## Remarks

**1**

The data presented in this bulletin result from the corrective settlement carried out by IPTO in W+6 timing (where W is the reference week), which is based on certified measurements.

**2**

The generation of the co-generation production unit of Alouminio included in the present bulletin has been estimated as 70% of its total generation, pending relevant calculations by RES Operator & Guarantees of Origin (DAPEEP S.A.).

# 2nd Version

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