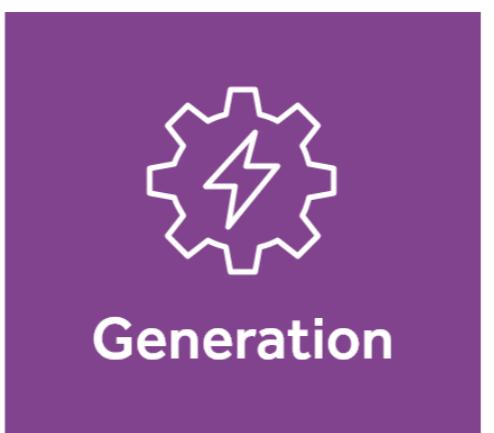
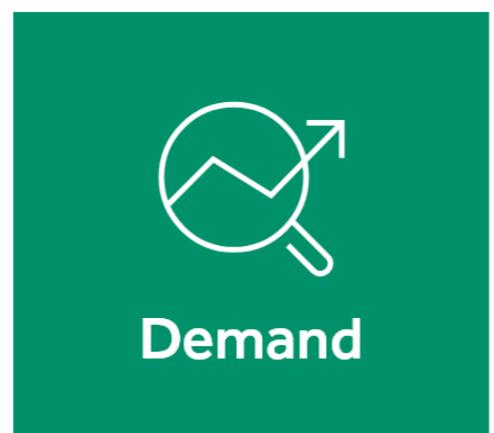
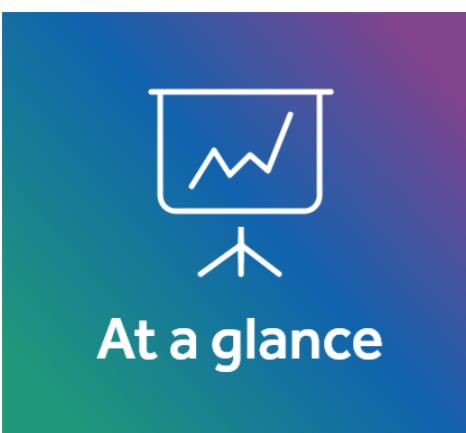


# MONTHLY ENERGY BULLETIN

April

2022 - 2nd Edition



01

02

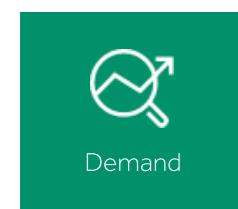
03

10

17

19

## The Month at a glance

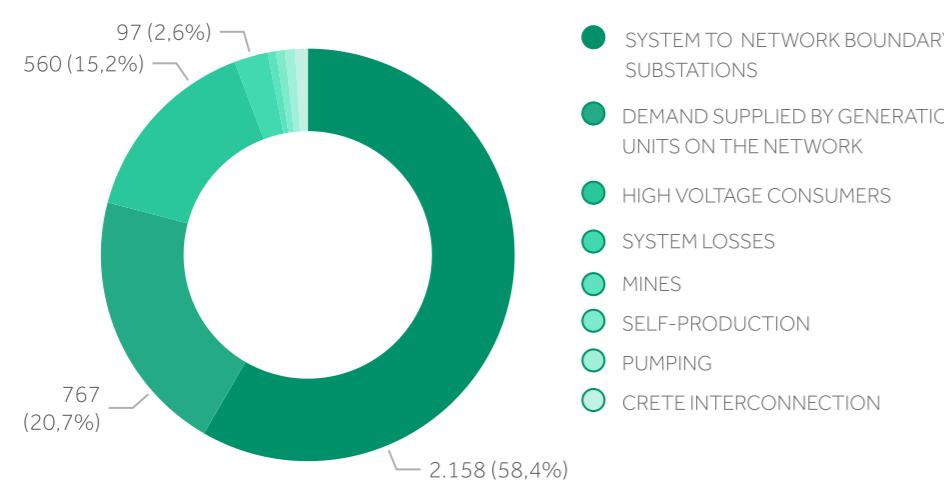


Total Demand  
**3.698 GWh**

↓ 2,73%

Variation in comparison  
to the same month of  
the previous year

### Estimation of total demand (GWh)

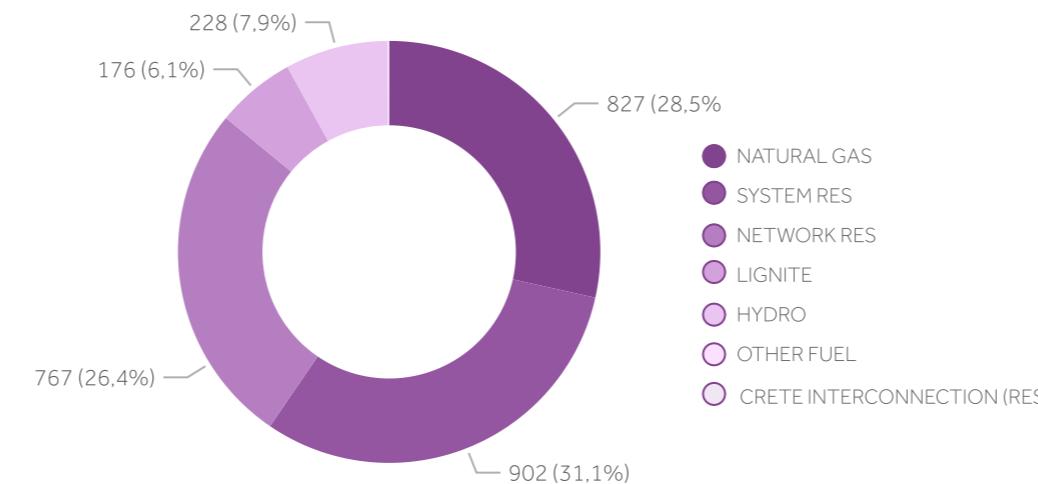


Total Generation  
**2.904 GWh**

↓ 19,56%

Variation in comparison  
to the same month of  
the previous year

### Estimation of total generation (GWh)



Interconnection Balance  
**793 GWh**

↑ 603 GWh

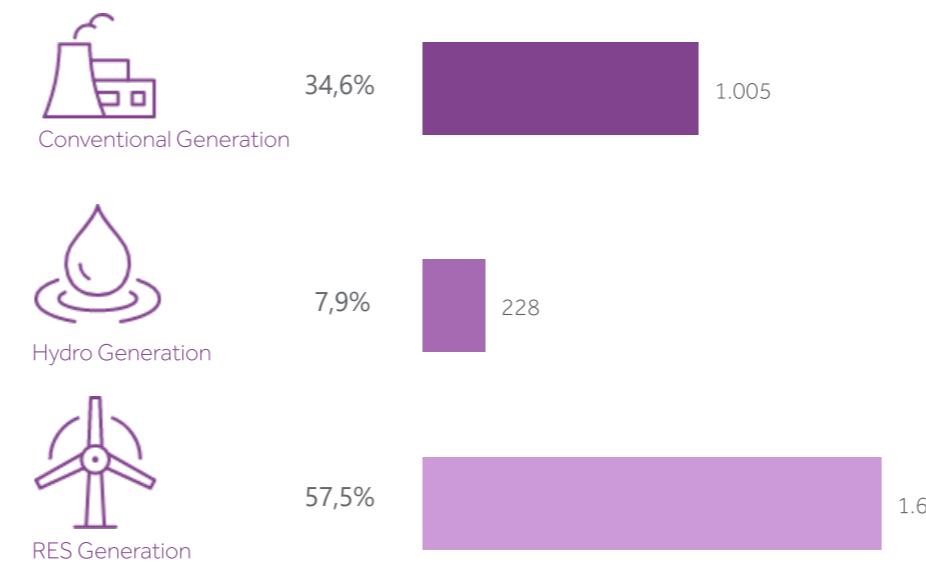
Variation in comparison  
to the same month of  
the previous year

### Maximum total demand

↑  18/04/2022  21:00  
**6.980 MW**

### Minimum total demand

↓  25/04/2022  5:00  
**3.295 MW**



Imports  
**926 GWh**  
↑ 73,81%

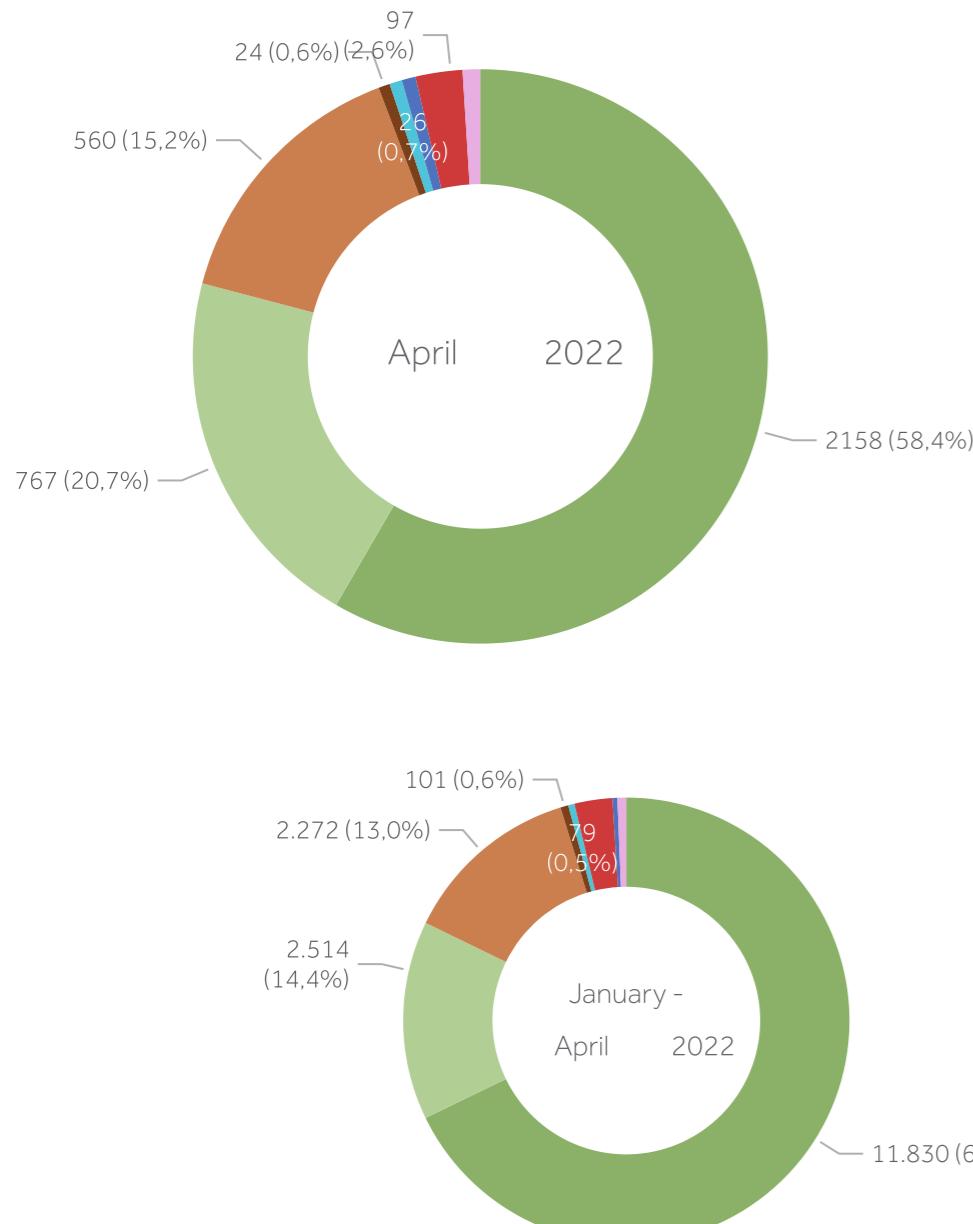


### Exports

↑  133 GWh  
↓ 61,22%

# Energy Balance in the Interconnected System and Network

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



Energy Balance  
April 2022

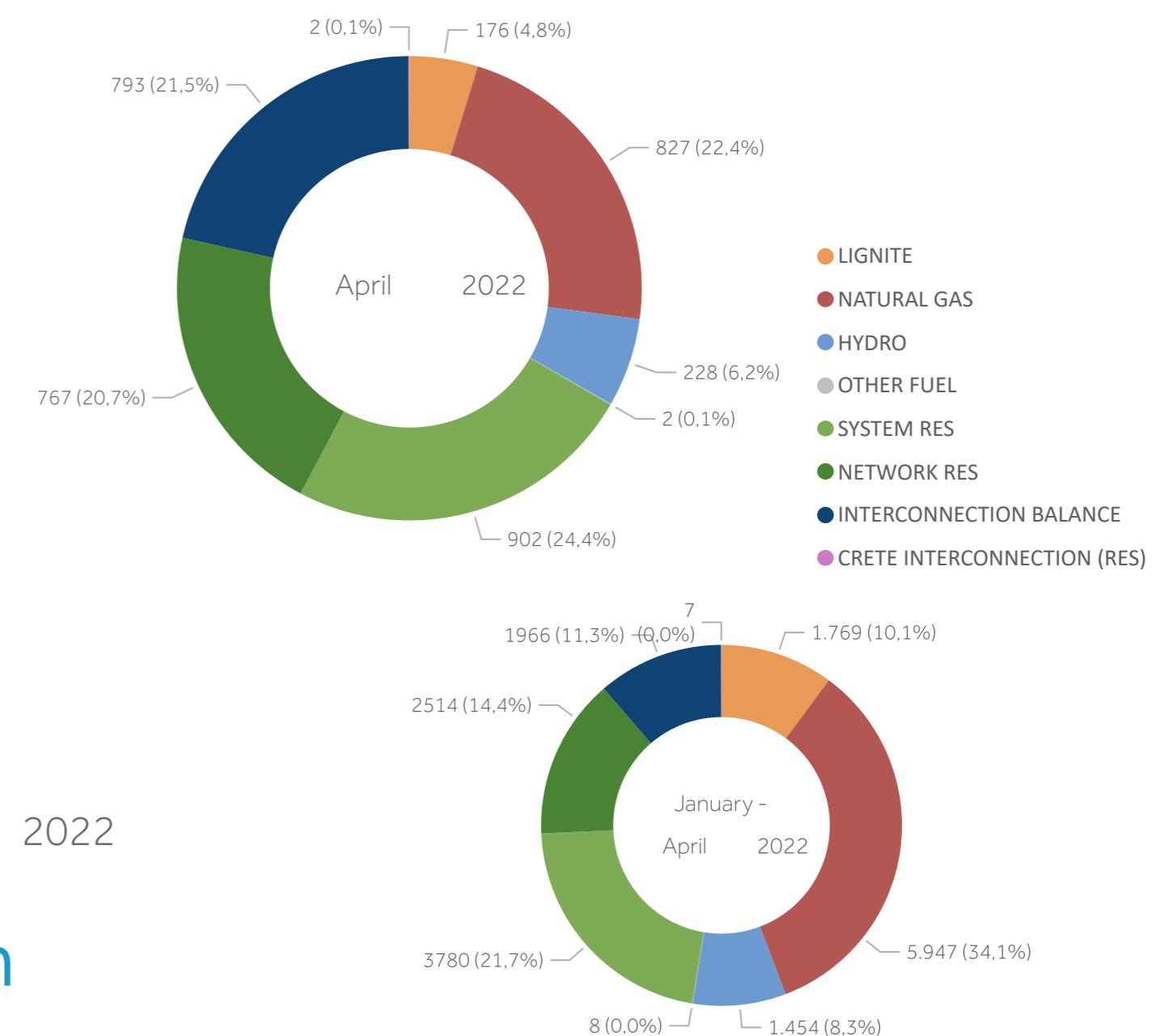
**3.698** GWh

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

Energy Balance  
January 2022 - April 2022

**17.447** GWh

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



### Notes

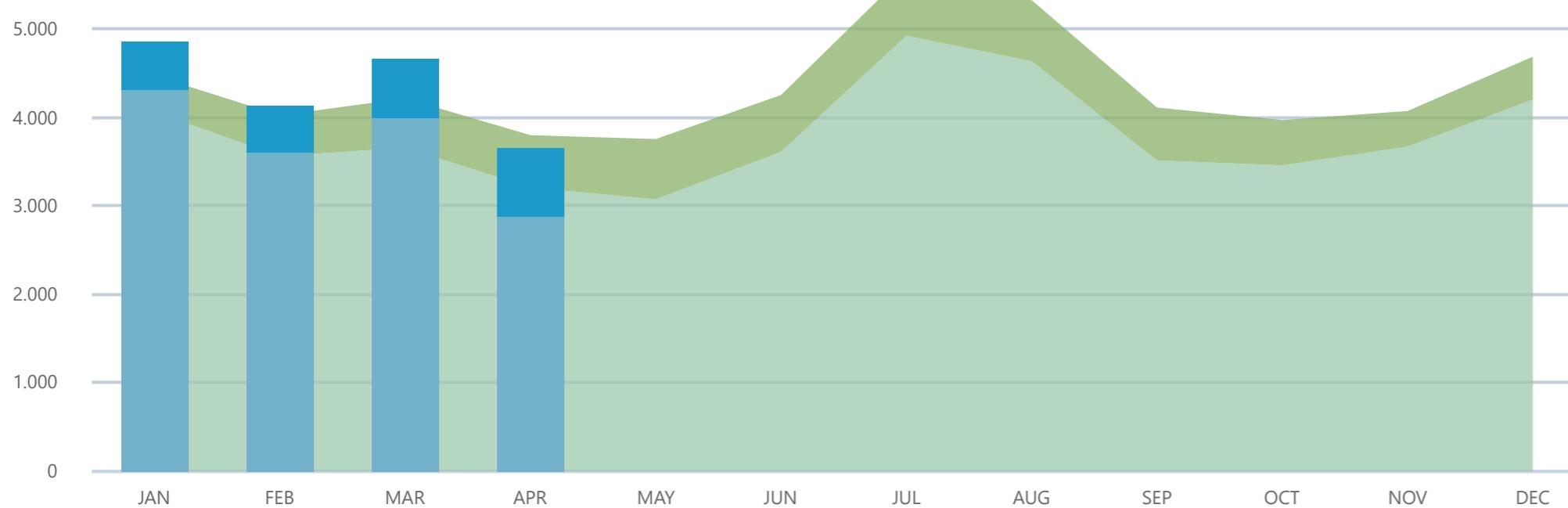
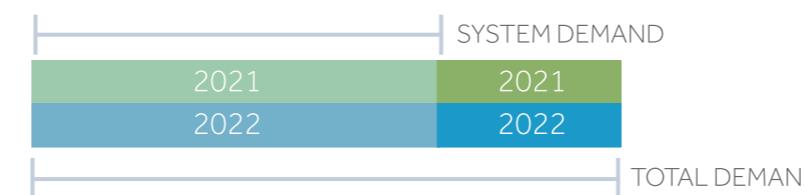
- 1 The demand of non-interconnected islands is not included.
- 2 Network generation results from validated meter data for the Medium Voltage and from validated meter data and estimations for the Low Voltage.
- 3 The surplus in the interconnection balance is displayed in the estimation of demand, whereas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

**3.669** GWh

↓ 3,44%

Variation in comparison to the same month of the previous year

System Demand<sup>1</sup>

**2.902** GWh

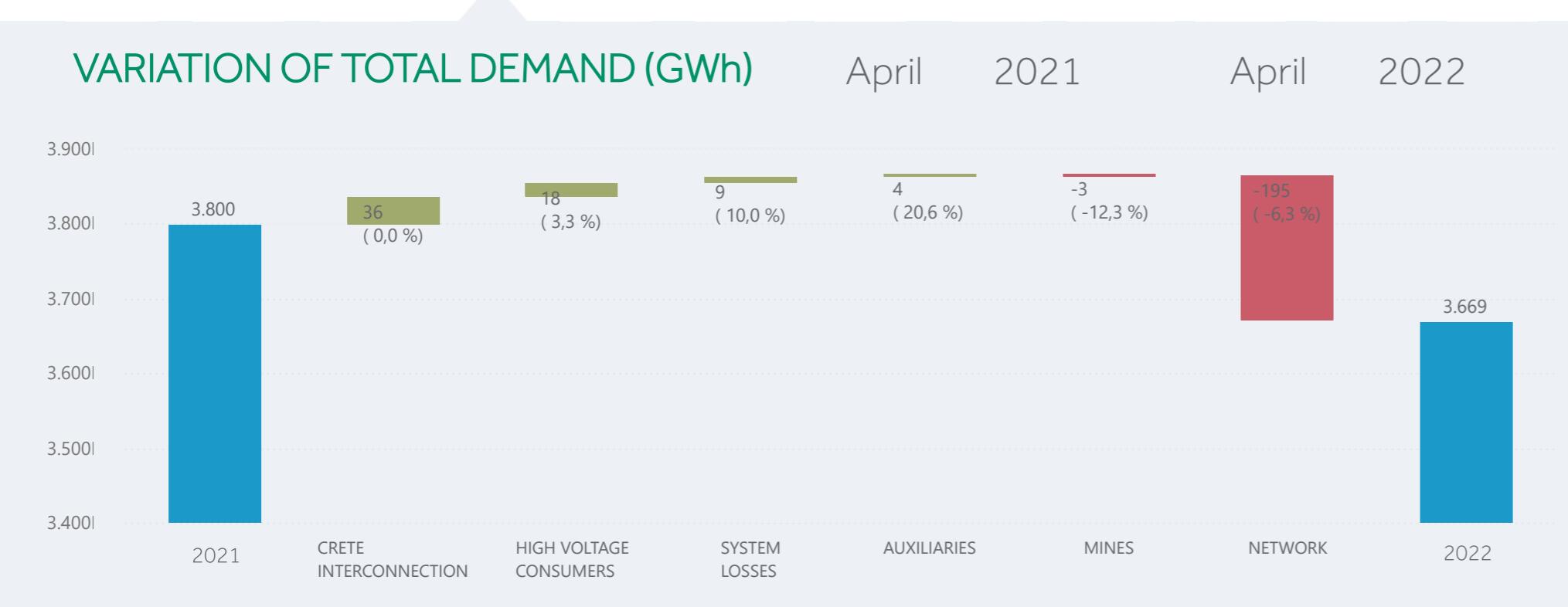
↓ 9,57%

Variation in comparison to the same month of the previous year

### VARIATION OF TOTAL DEMAND (GWh)

April 2021

April 2022



### Notes

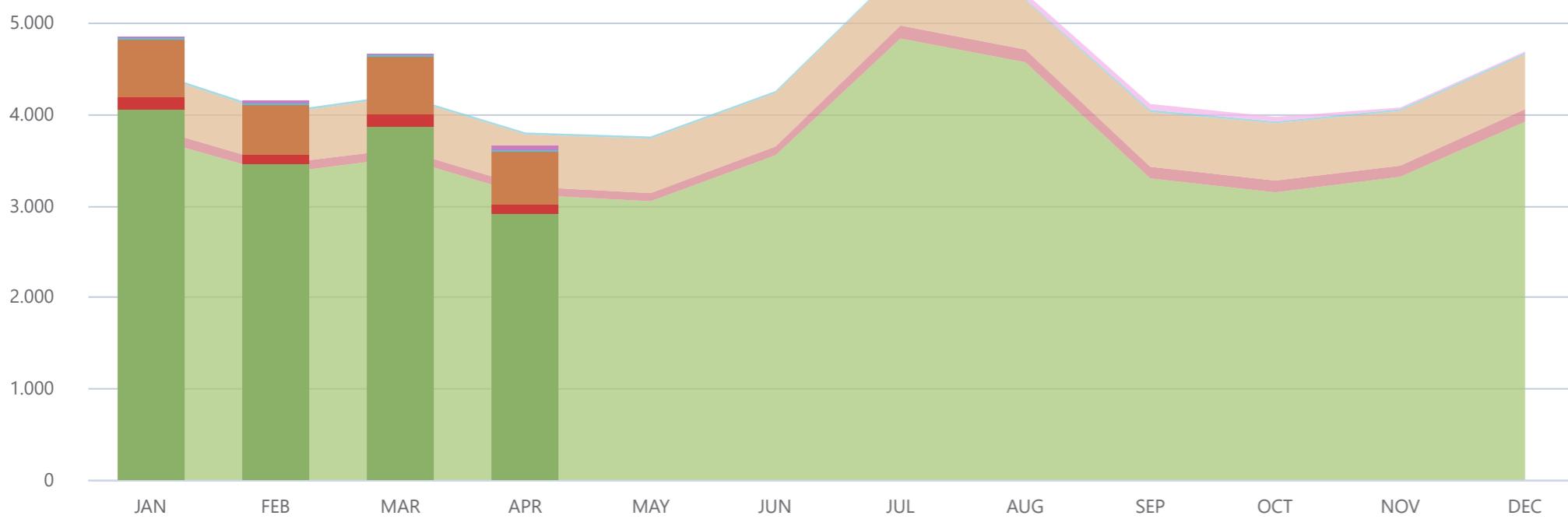
1 System Demand is defined as the generation produced by production units (conventional and RES) connected to the System, that is required to cover the System Load (excluding pumping). Demand supplied by units injecting into the Network is not included. More specifically, the estimation of System Demand 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

2021 2022

### SYSTEM LOSSES

2021 2022

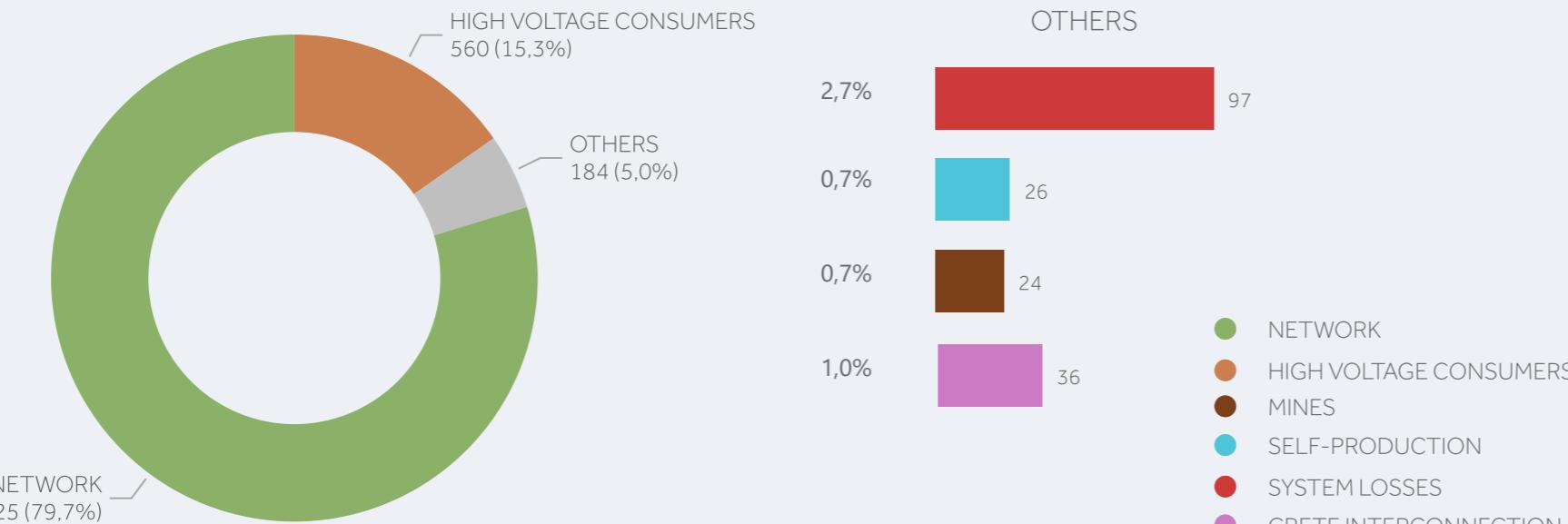
### NETWORK

2021 2022

### CRETE INTERCONNECTION

2021 2022

## ESTIMATION OF DEMAND PER CONSUMPTION CATEGORY (GWh)

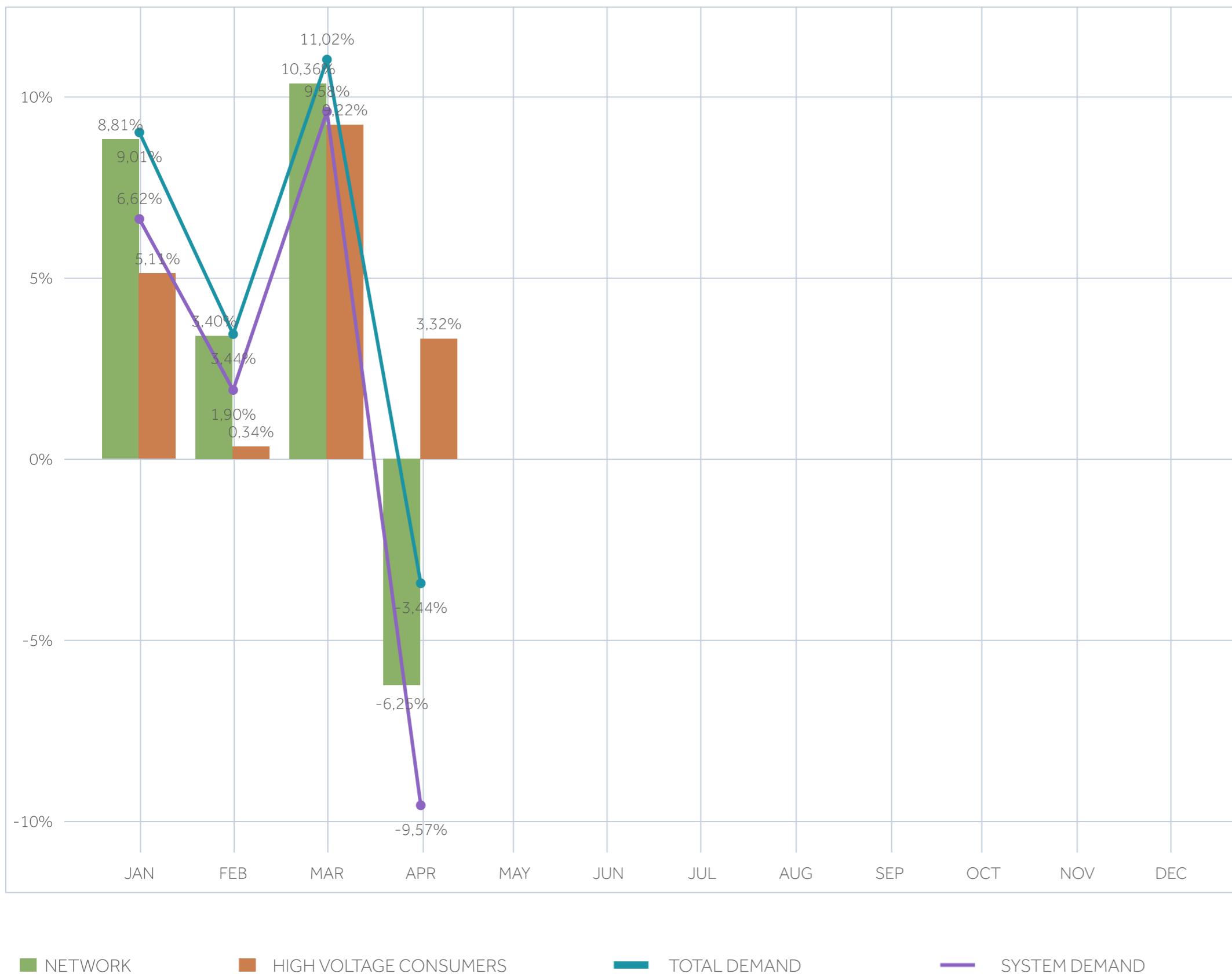


### Notes

- 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.

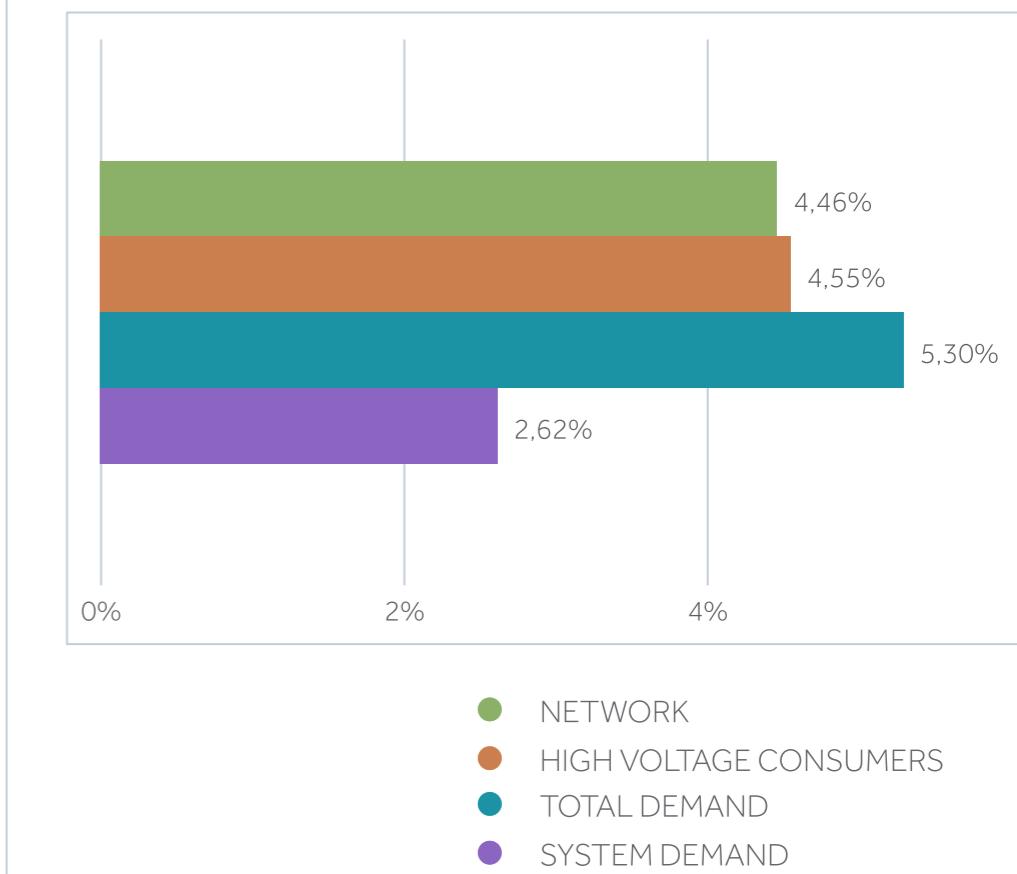
## Evolution of Demand in comparison to the previous year

### 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



### 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.

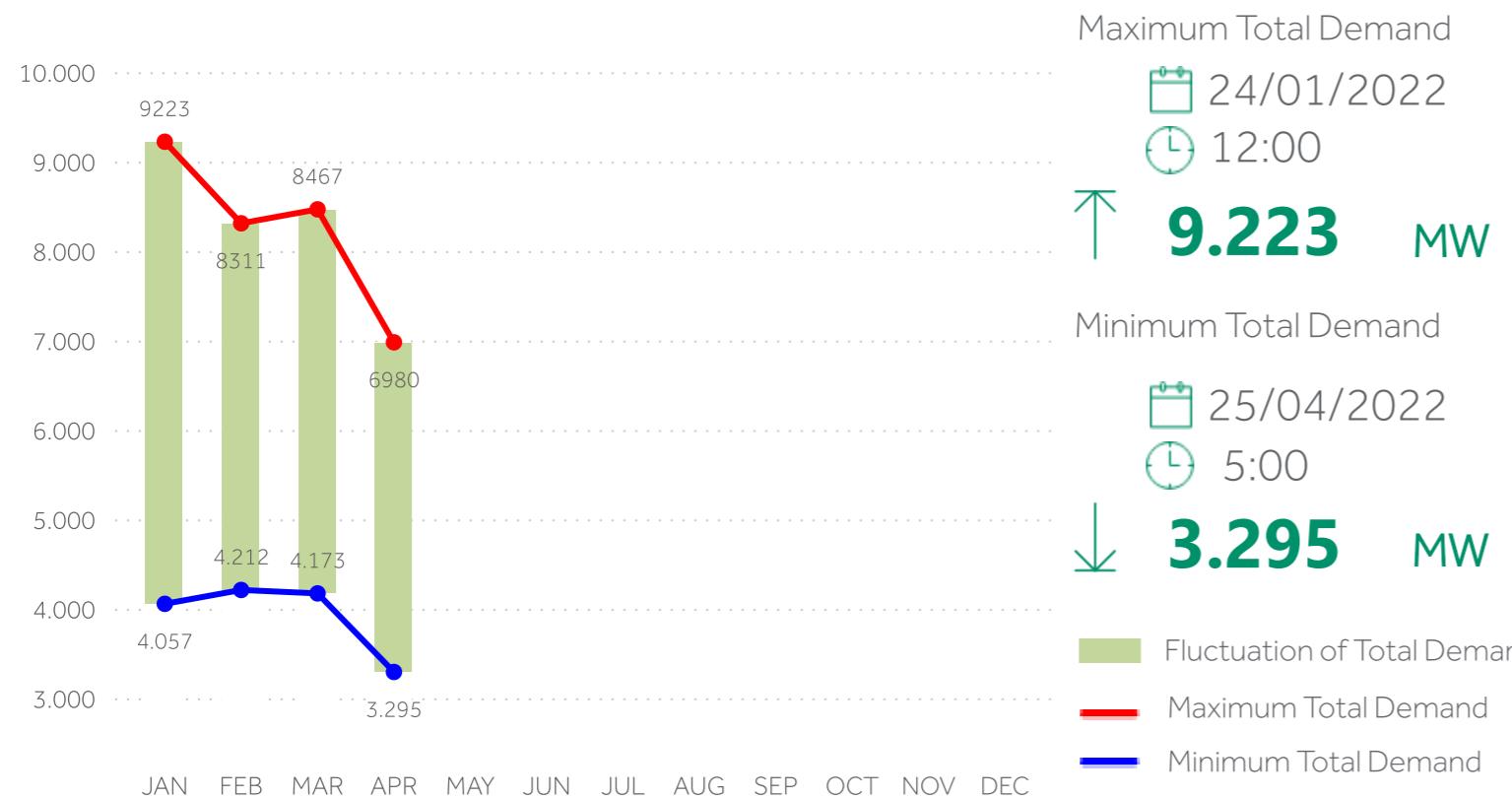
2 Demand does not include pumping.

## MAXIMUM & MINIMUM HOURLY TOTAL DEMAND (MW)

current year



Annex 1.2

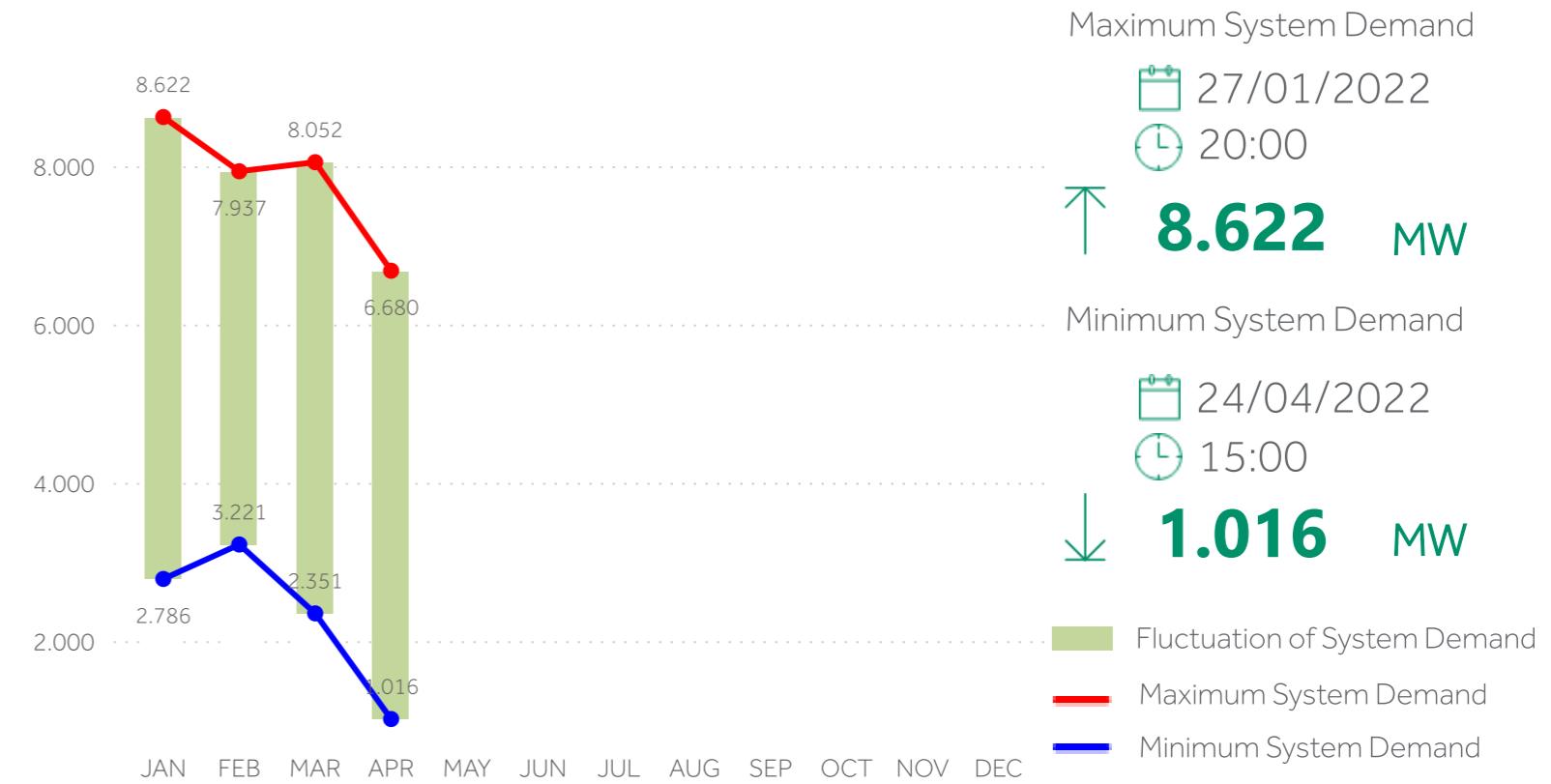


## MAXIMUM & MINIMUM HOURLY SYSTEM DEMAND (MW)

current year



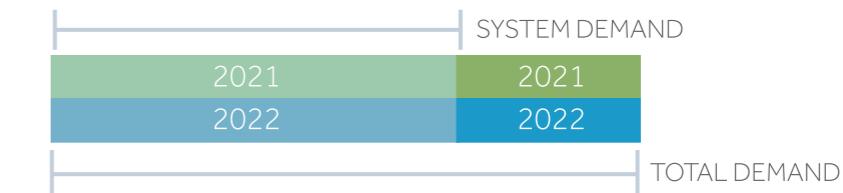
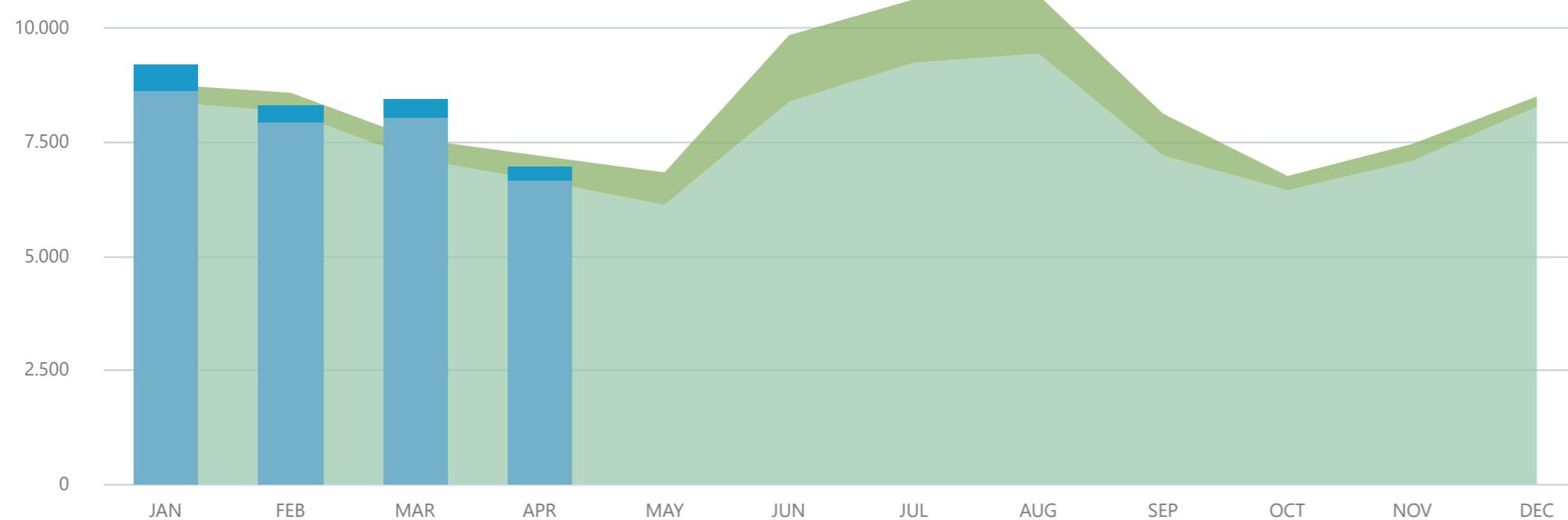
Annex 1.3



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



Annex 1.2 - 1.3

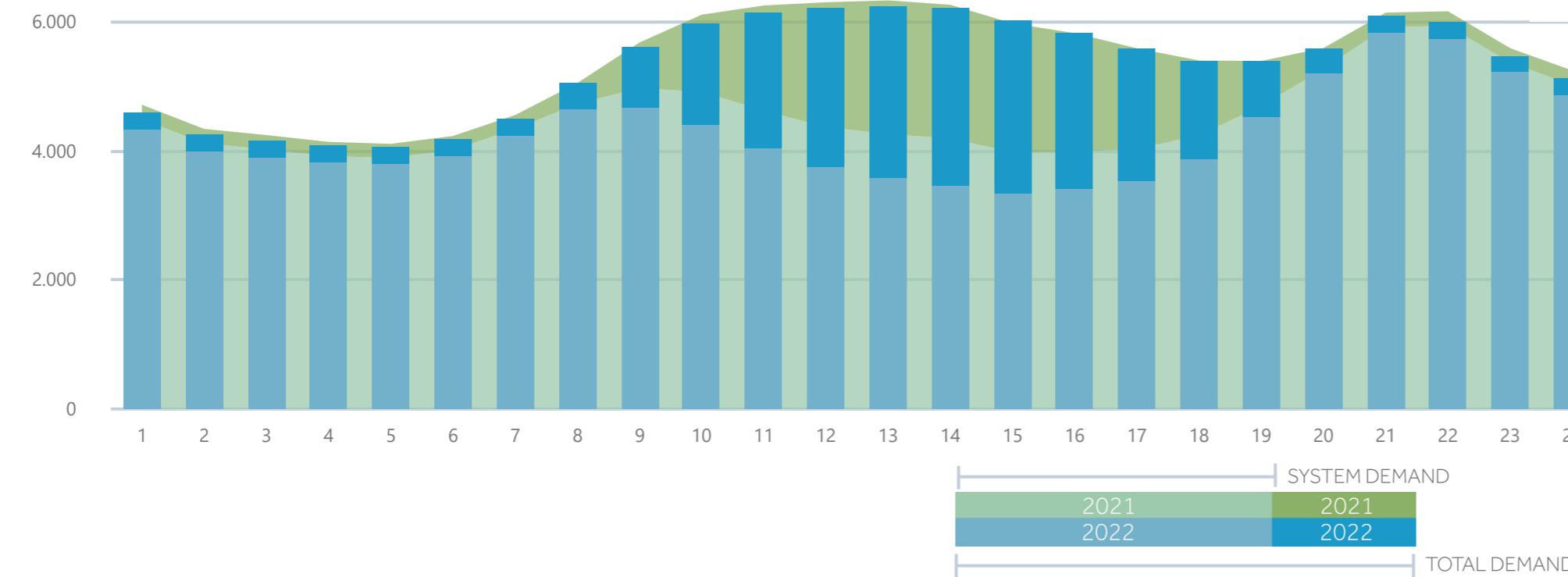


### Notes

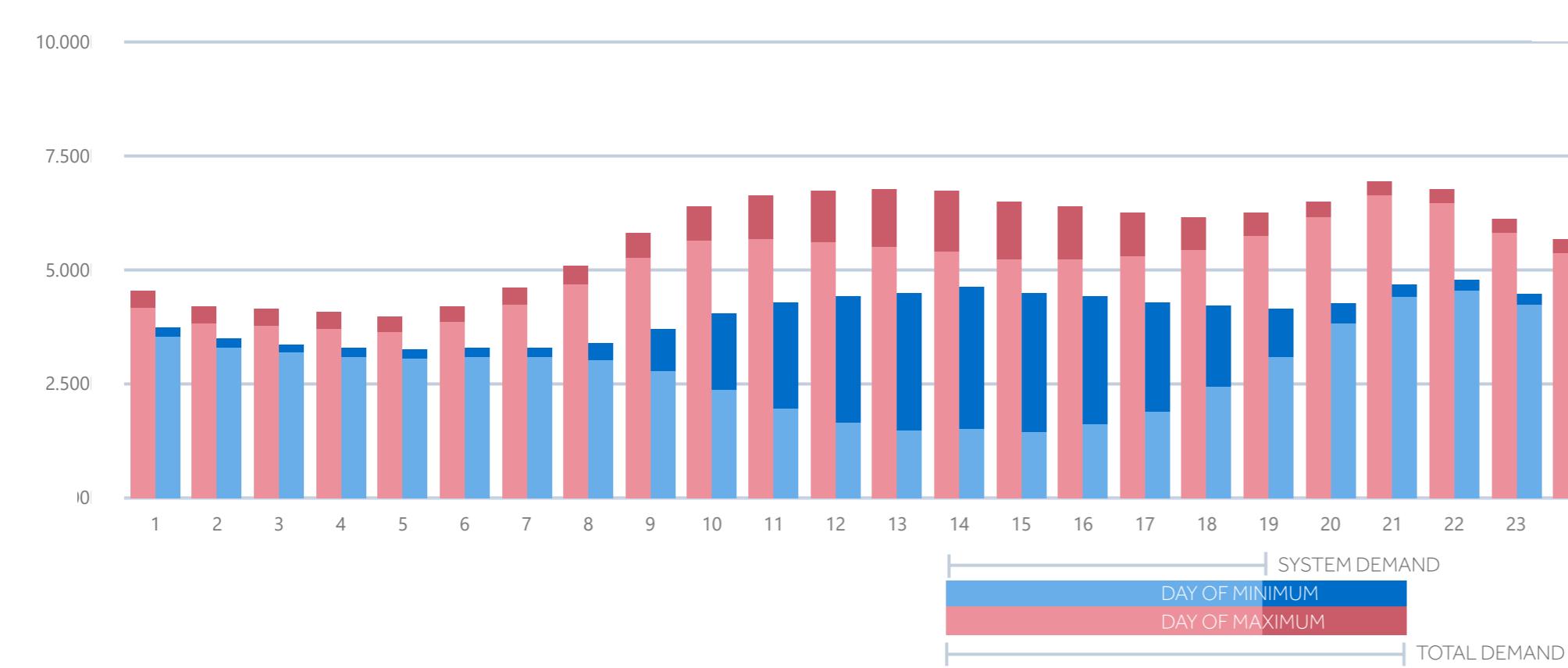
- In maximum & minimum demand analysis, Total Demand and System Demand include pumping.
- Analysis is based on hourly data.

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

During working days of month April current &amp; previous year

**HOURLY TOTAL DEMAND & SYSTEM DEMAND (MW)**

During the day of maximum and minimum of month April 2022

**MAXIMUM TOTAL DEMAND**

18/04/2022

21:00

↑ **6.980 MW****MINIMUM TOTAL DEMAND**

25/04/2022

5:00

↓ **3.295 MW****MAXIMUM SYSTEM DEMAND**

18/04/2022

21:00

↑ **6.680 MW****MINIMUM SYSTEM DEMAND**

24/04/2022

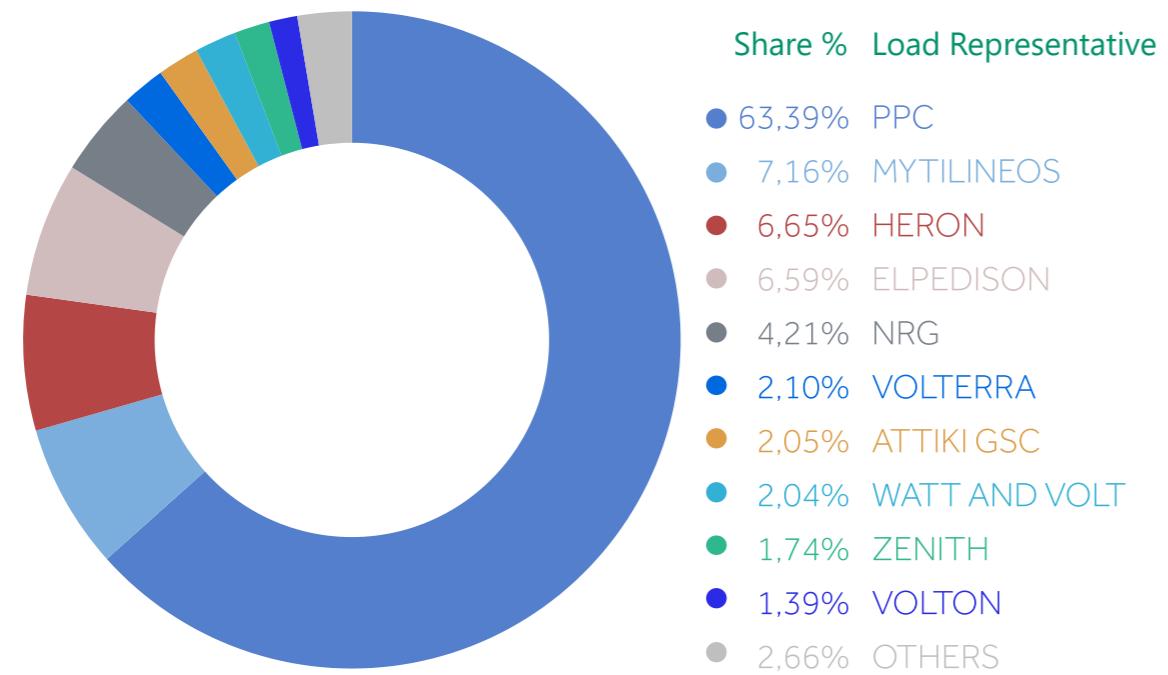
15:00

↓ **1.016 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 (%) 

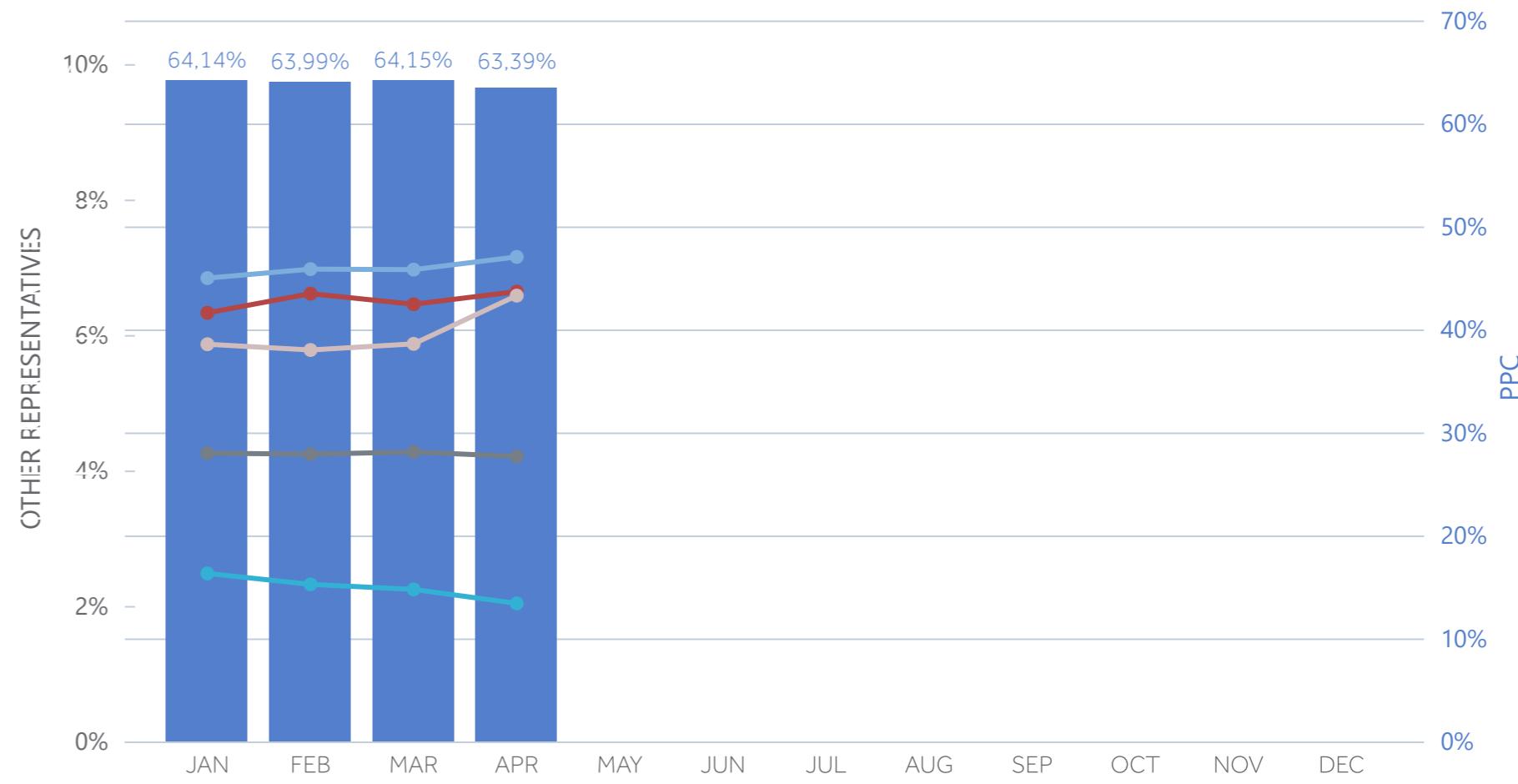


Annex 1.7

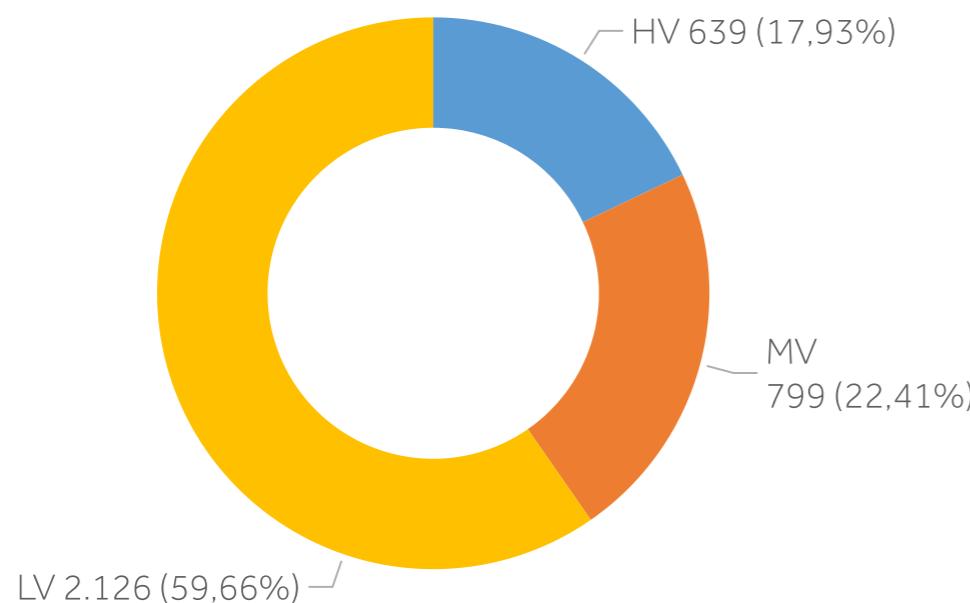
EVOLUTION OF MARKET SHARE OF LOAD REPRESENTATIVES (%) 

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

Annex 1.6



DEMAND PER VOLTAGE LEVEL (GWh/%)

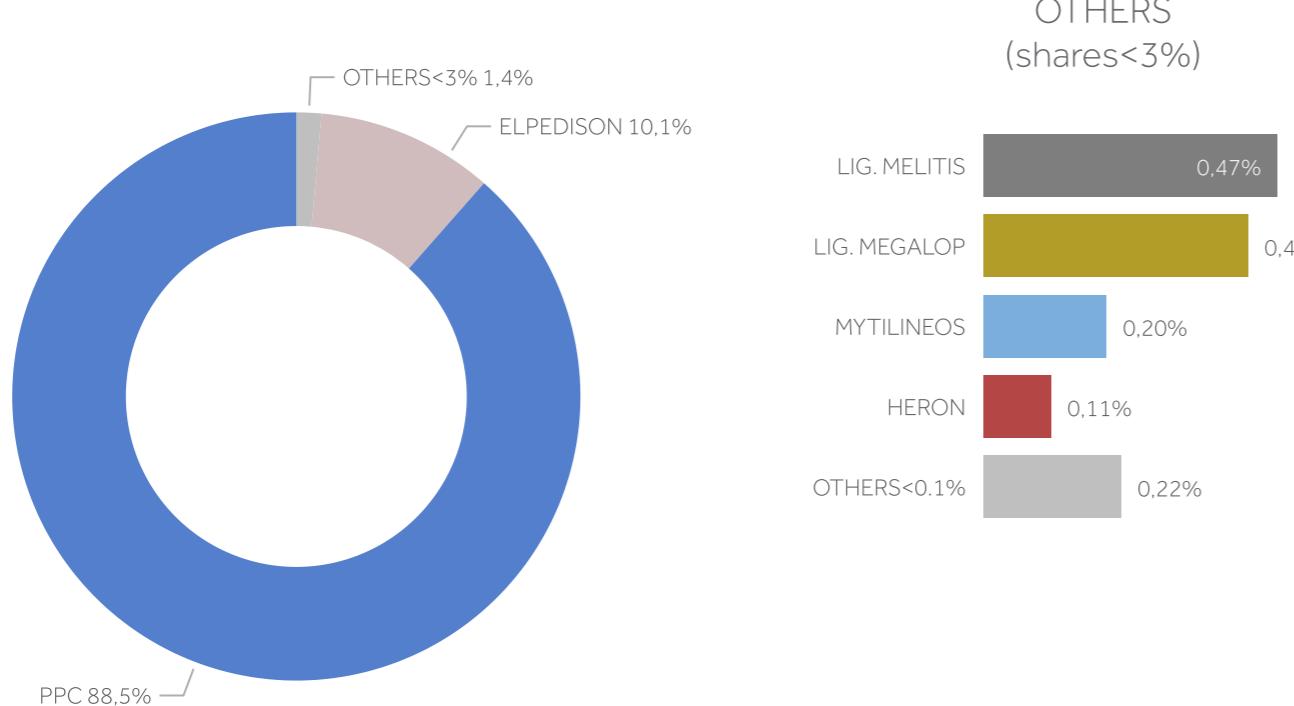


### Notes

- 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.

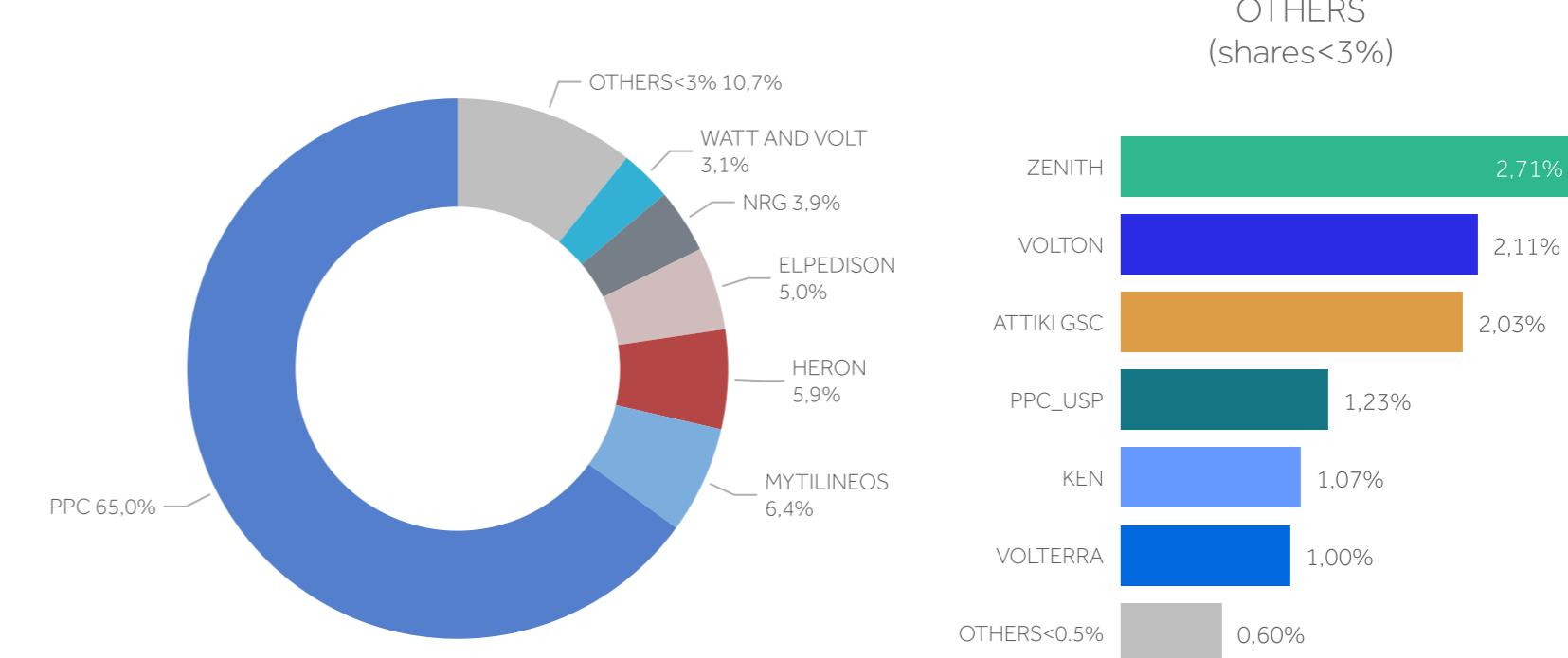
## Market Share of Load Representatives per voltage level

MARKET SHARE OF LOAD REPRESENTATIVES IN HV (%)



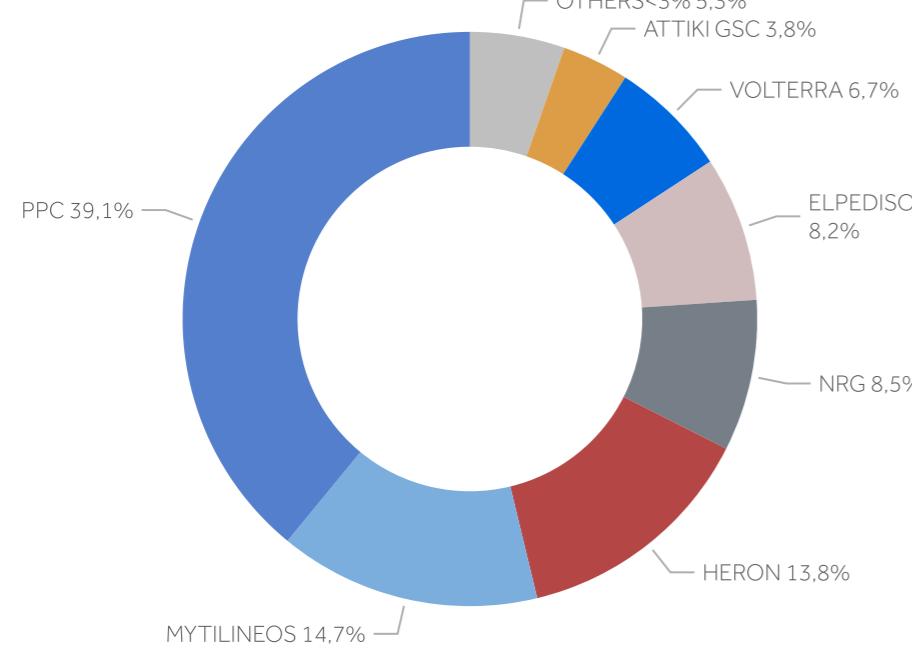
Annex 1.7

MARKET SHARE OF LOAD REPRESENTATIVES IN LV (%)

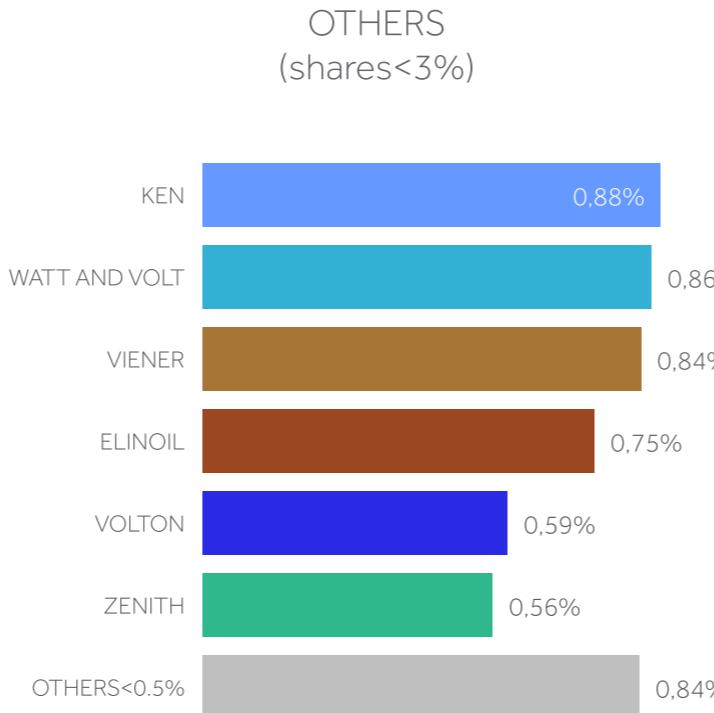


Annex 1.7

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.

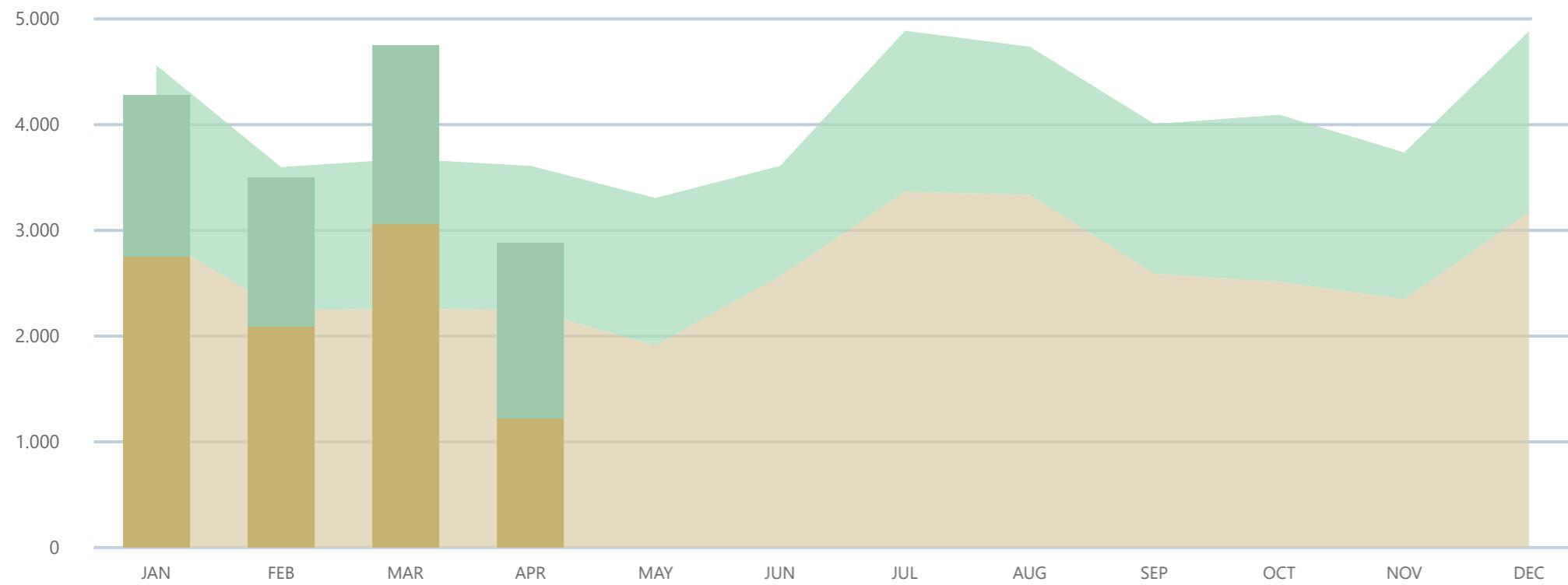
## Analysis of Net Generation

### ESTIMATION OF NET GENERATION (GWh)

Annex 2.1

2021 CONVENTIONAL  
2022 GENERATION

2021 RES  
2022 GENERATION



### Total Net Generation

**2.904** GWh

↓ 19,56%

Variation in comparison to the same month of the previous year



Thermal Generation



Hydro Generation



RES Generation

34,61%

7,86%

57,53%

### VARIATION OF NET GENERATION (GWh)

April

2021

- April

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

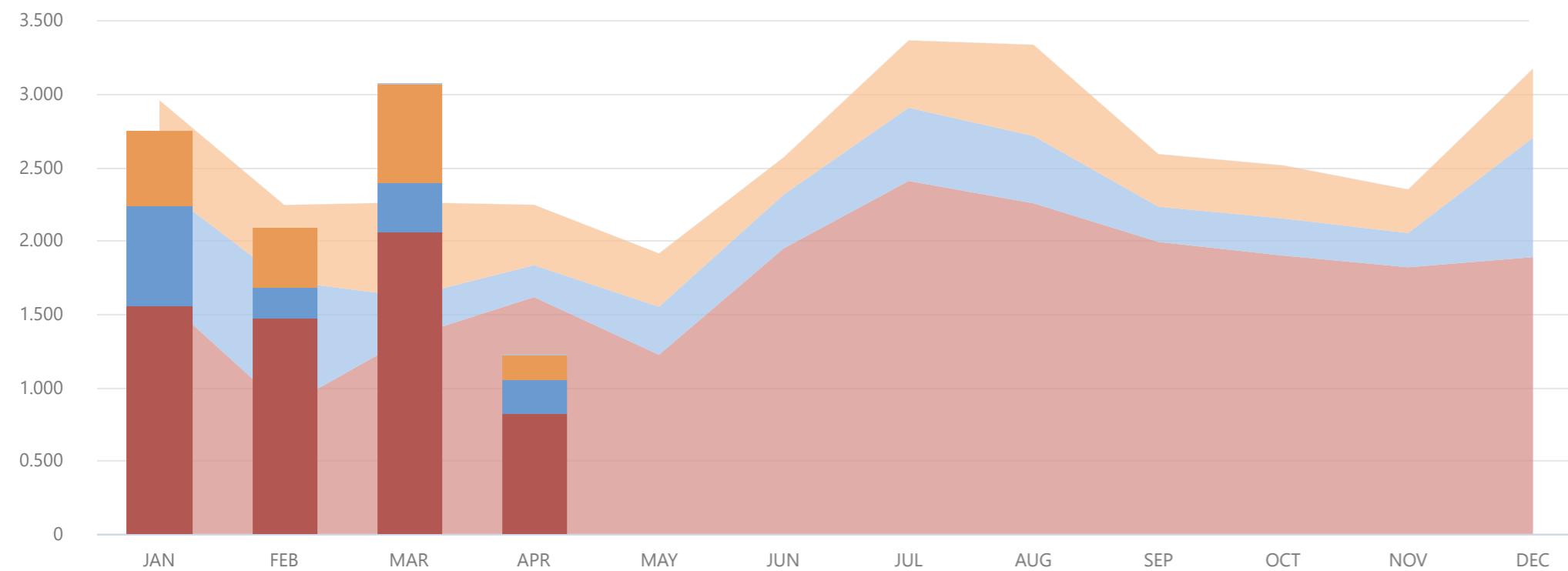
- generation in the point of injection to the System from RES generation connected directly to System substations (System RES)
- generation from dispatchable co-generation units that has been characterised as high efficiency Co-Generation (System RES)
- estimation of generation in the Distribution Network (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

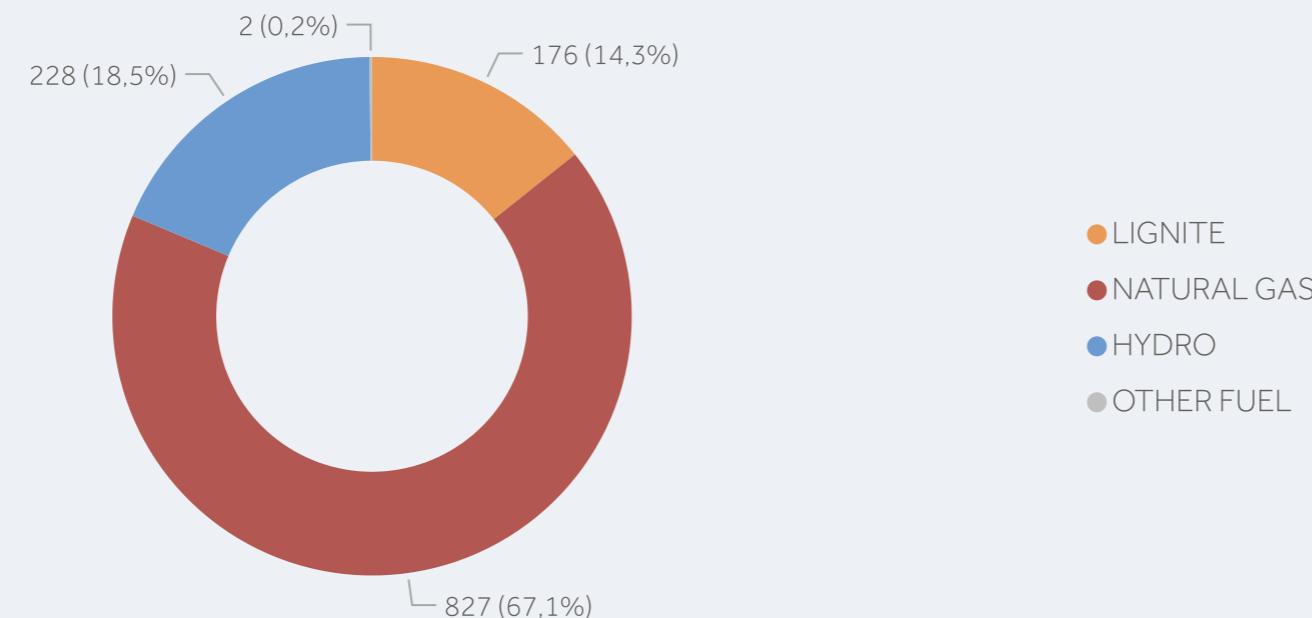
2021 2022

NATURAL GAS

2021 2022

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

April 2022

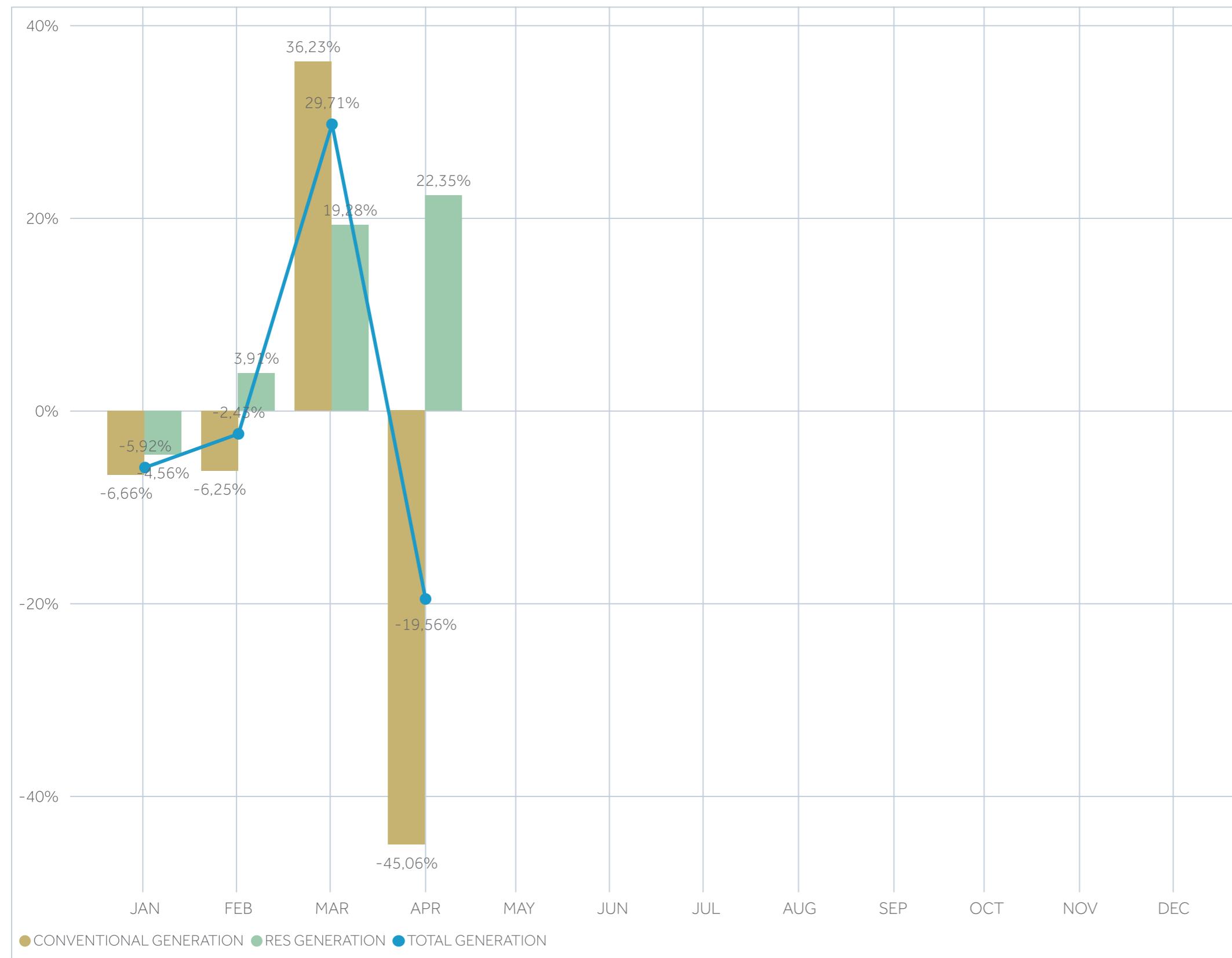


#### Notes

- 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.

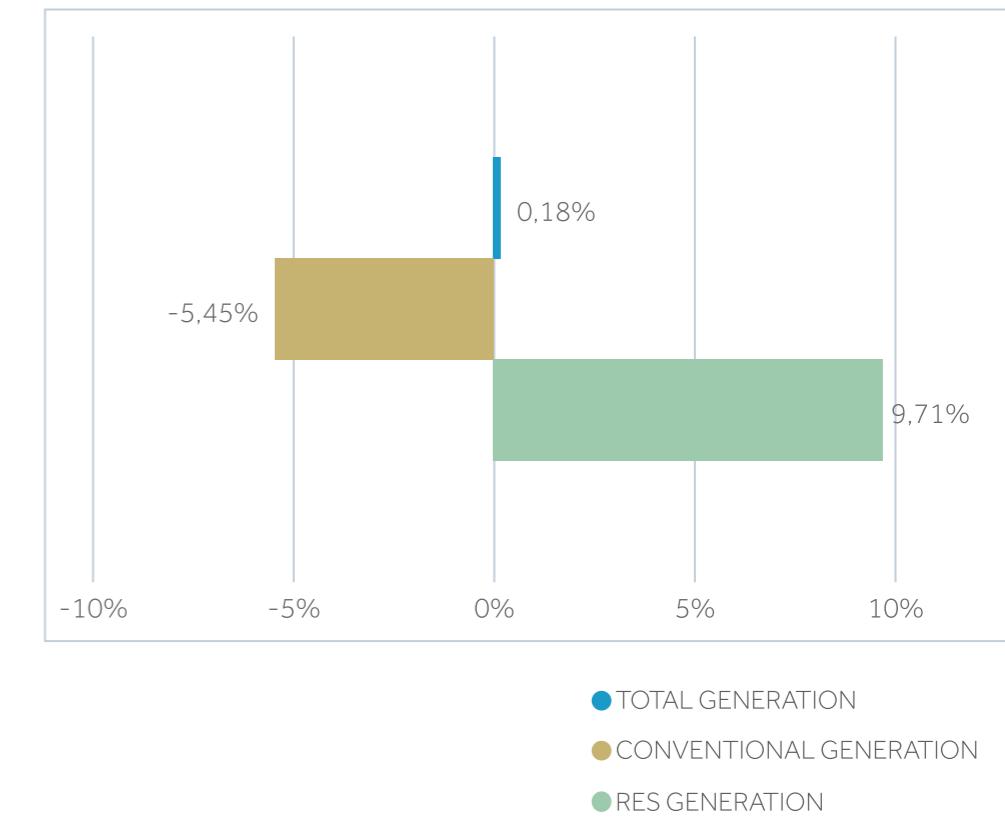
## Variation of Generation in comparison to the previous year

### 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.

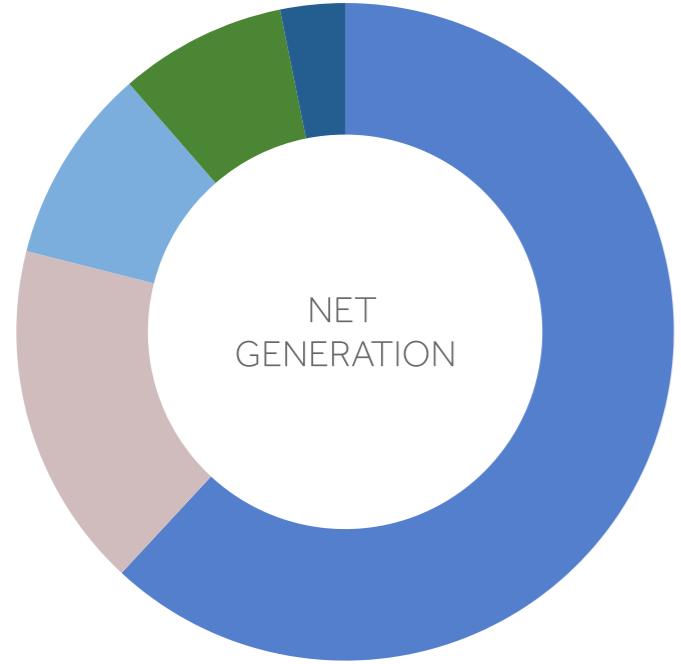
RES Generation includes

- 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

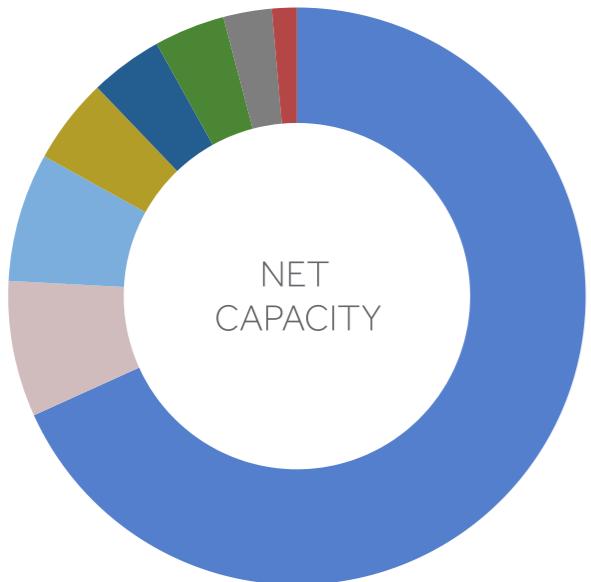
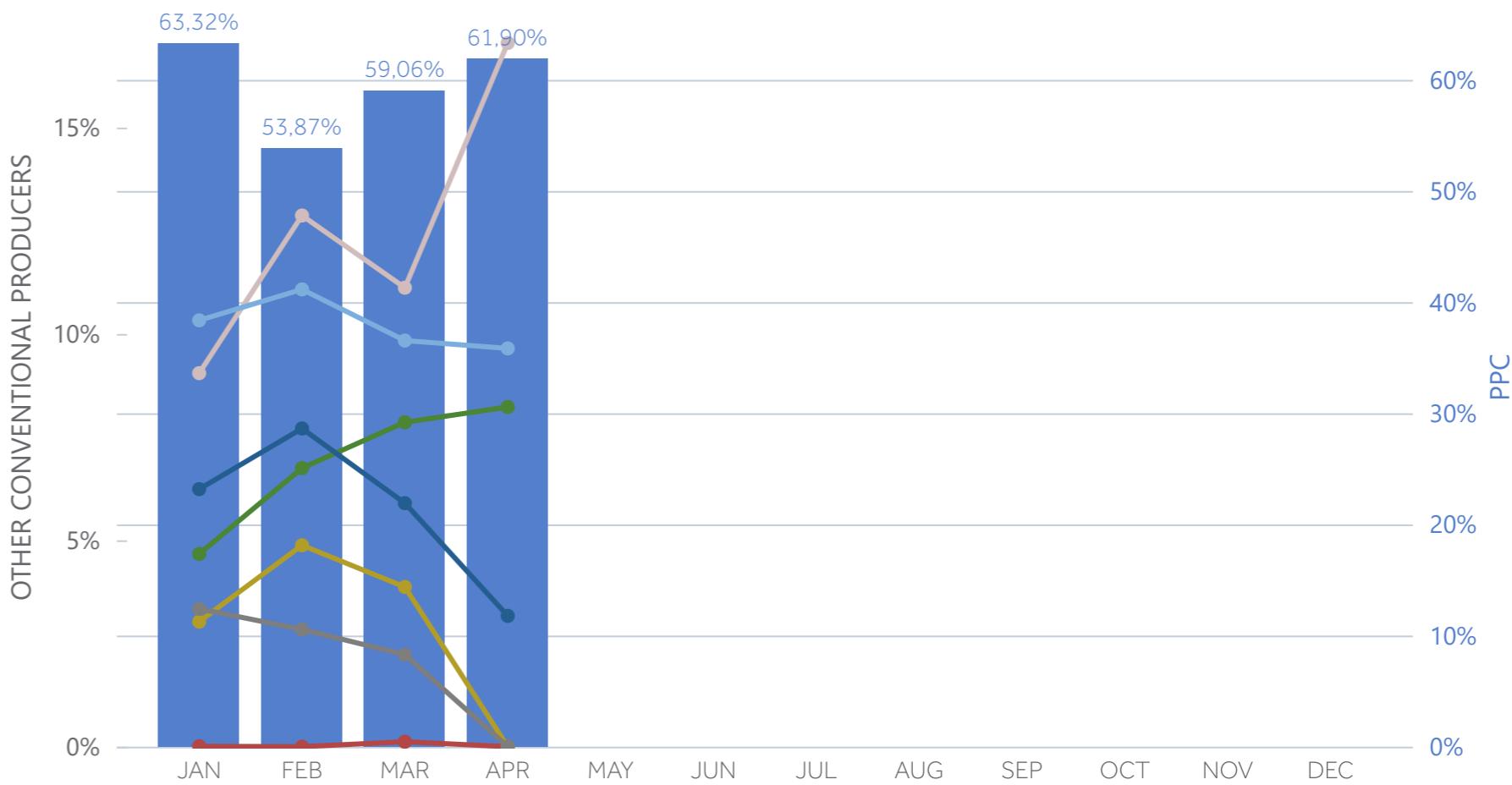
NET CAPACITY (MW) - NET GENERATION (GWh)

April 2022

 Annex 2.2

	GWh	%	PRODUCER
●	801.00	61.90%	PPC
●	220.66	17.05%	ELPEDISON
●	124.87	9.65%	MYTILINEOS
●	106.44	8.23%	HERON 2 VIOTIAS
●	41.07	3.17%	KORINTHOS POWER
●	0.00	0.00%	HERON
●	0.00	0.00%	LIG. MEGALOPOLIS
●	0.00	0.00%	LIG. MELITIS

PERCENTAGE OF NET CONVENTIONAL GENERATION IN THE SYSTEM (%)

 Annex 2.3

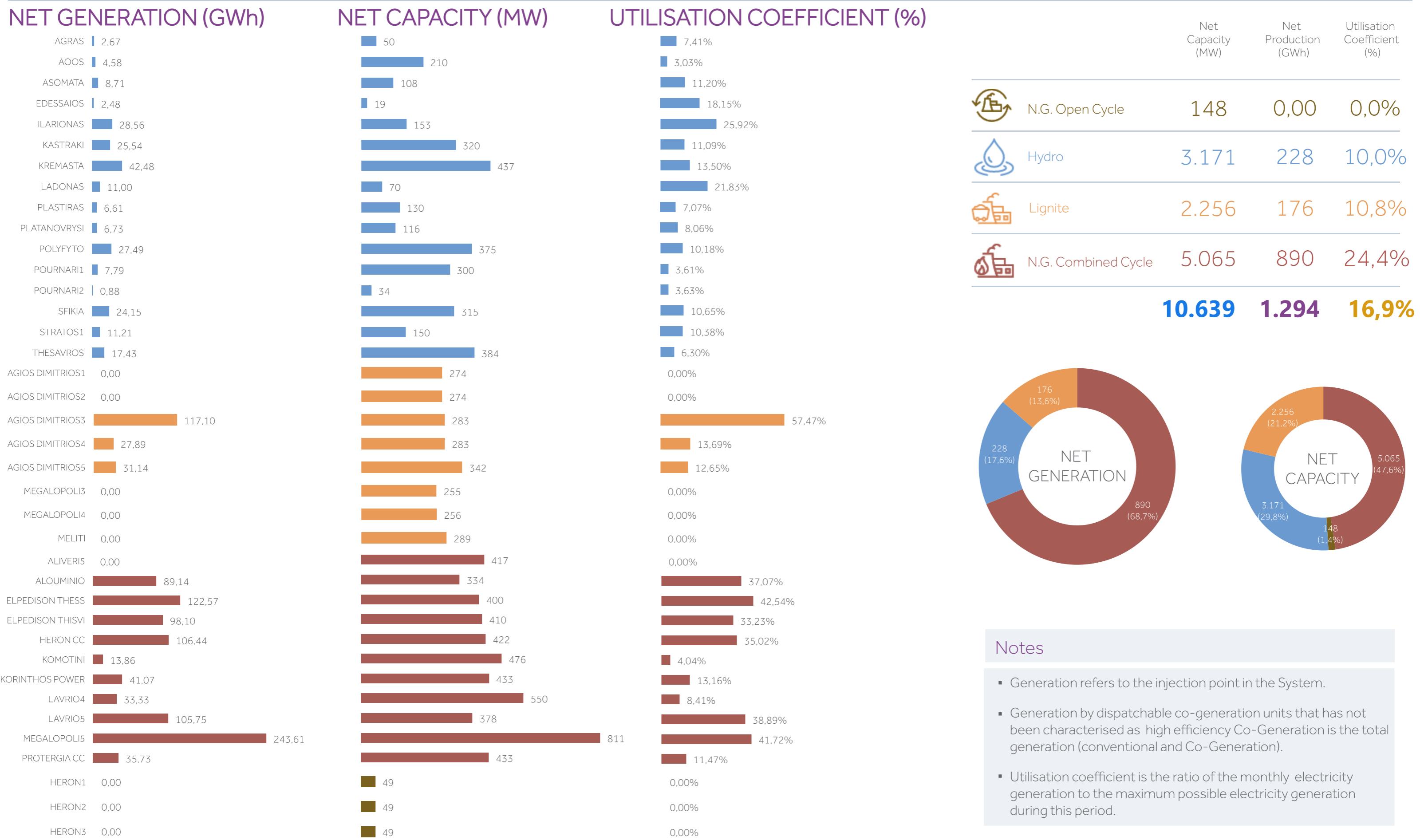
	MW	%	PRODUCER
●	7.258.86	68.23%	PPC
●	810.18	7.62%	ELPEDISON
●	766.70	7.21%	MYTILINEOS
●	511.00	4.80%	LIG. MEGALOPOLIS
●	433.46	4.07%	KORINTHOS POWER
●	422.14	3.97%	HERON 2 VIOTIAS
●	289.00	2.72%	LIG. MELITIS
●	147.76	1.39%	HERON

### 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



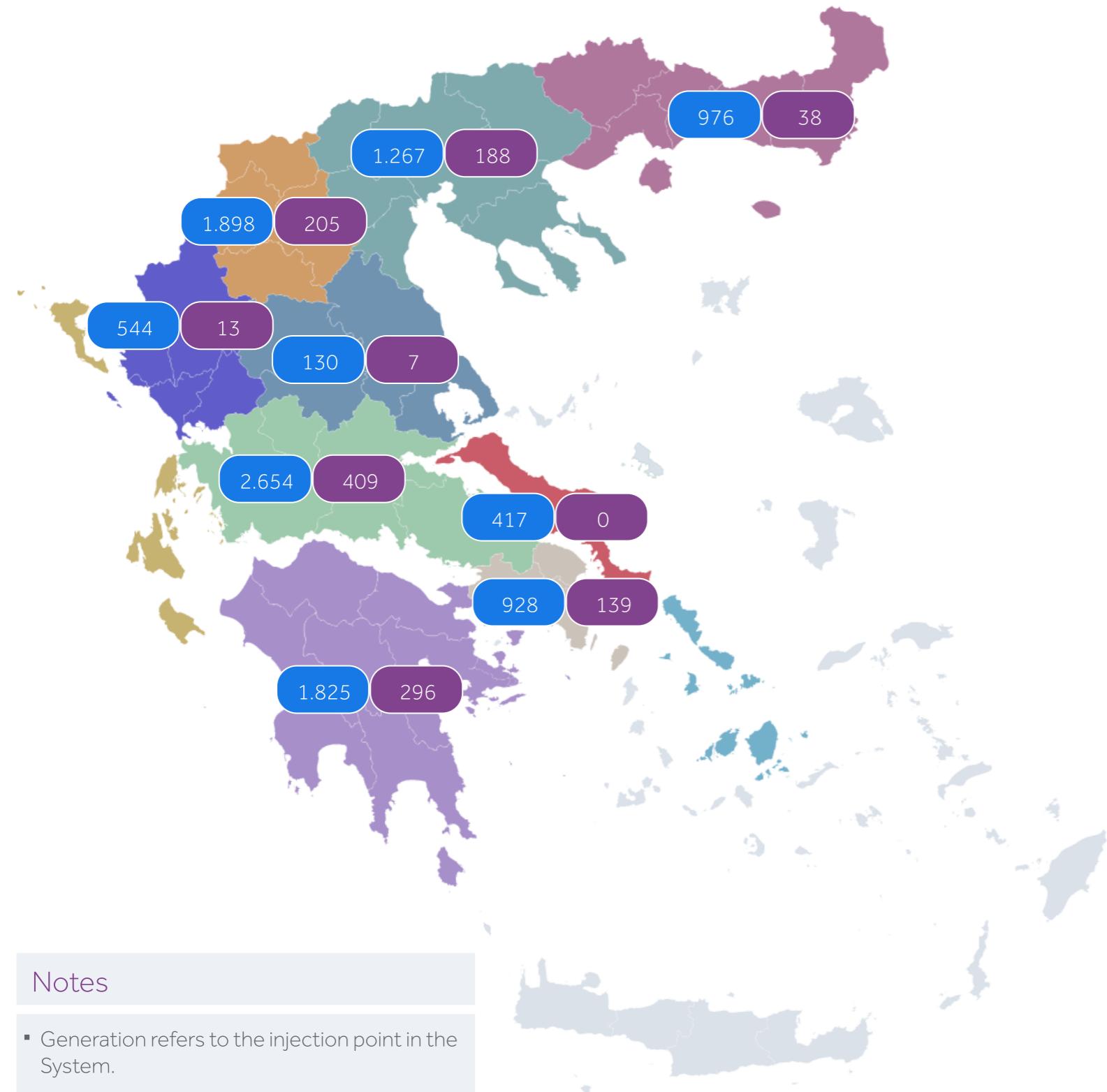
# Geographical Distribution of Conventional Generation



Annex 2.5

## GEOGRAPHICAL DISTRIBUTION OF CONVENTIONAL GENERATION

NET CAPACITY (MW) | NET GENERATION (GWh)

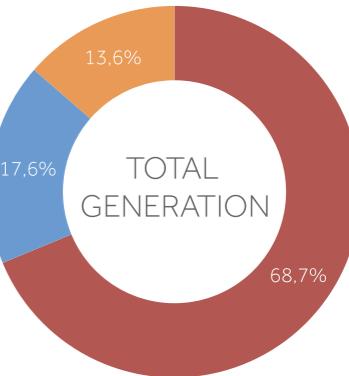
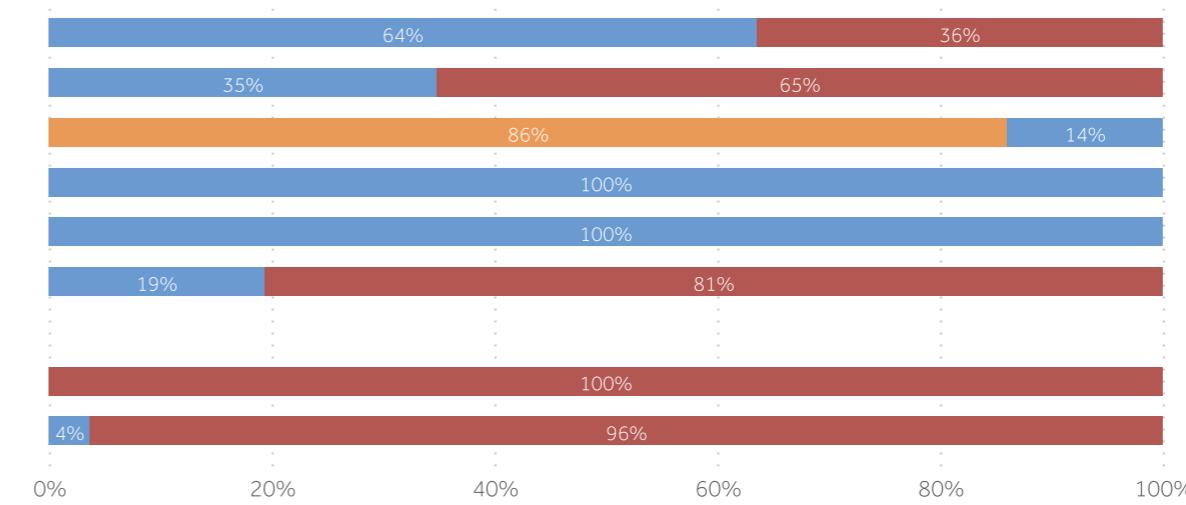


## ENERGY MIX OF CONVENTIONAL GENERATION

	(MW)	%	(GWh)	%	
	3.171	29,8%	228	17,6%	HYDRO
	2.256	21,2%	176	13,6%	LIGNITE
	5.212	49,0%	890	68,7%	NATURAL GAS

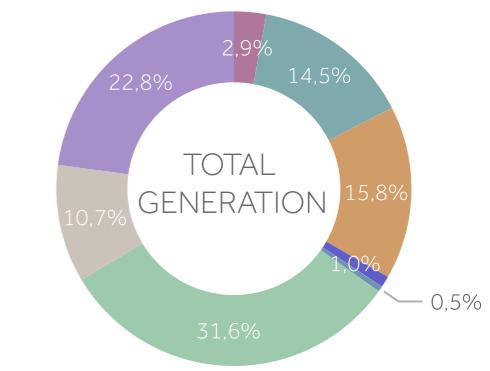
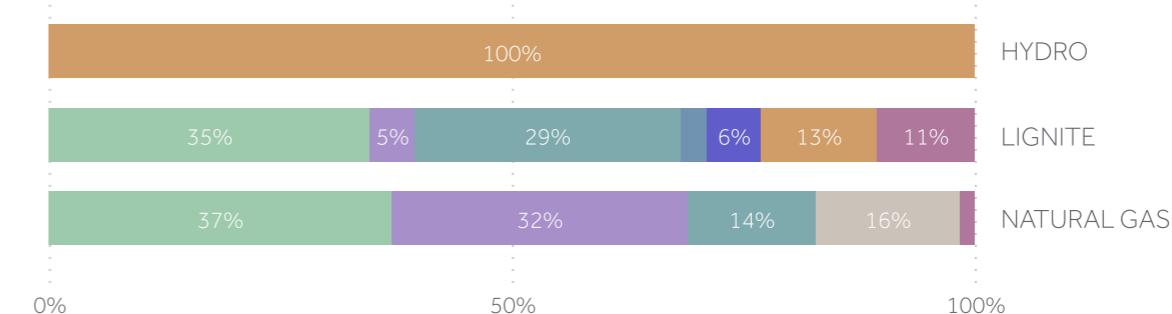
**10.639****1.294**

per geographical area (%)



## GEOGRAPHICAL DISTRIBUTION OF CONVENTIONAL GENERATION

per fuel (%)



### Notes

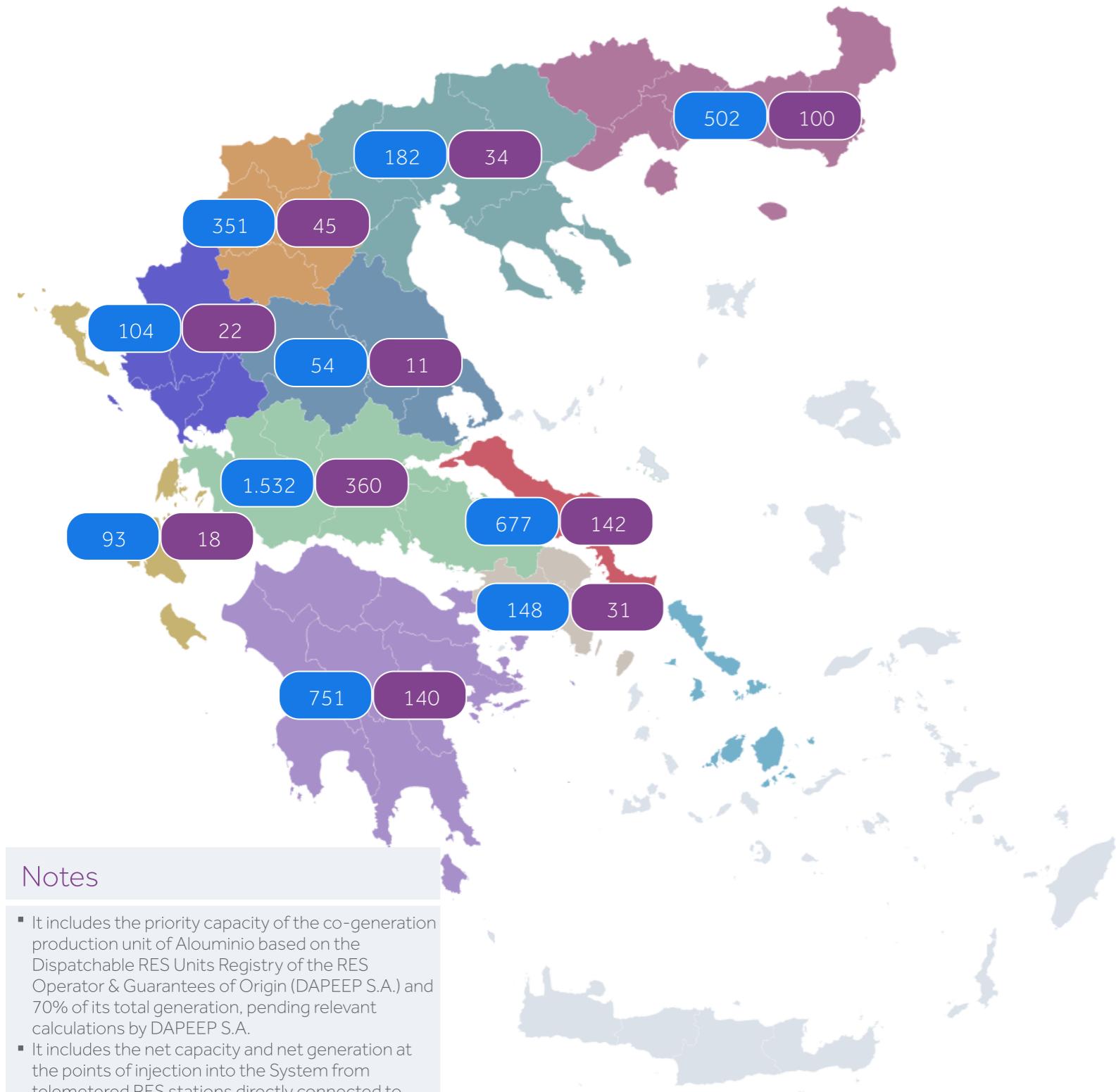
- Generation refers to the injection point in the System.
- Generation by dispatchable co-generation units that has not been characterised as high efficiency Co-Generation is the total generation (conventional and Co-Generation).

# Geographical Distribution of System RES Generation

 Annex 2.6

## GEOGRAPHICAL DISTRIBUTION OF SYSTEM RES GENERATION

NET CAPACITY (MW) | NET GENERATION (GWh)



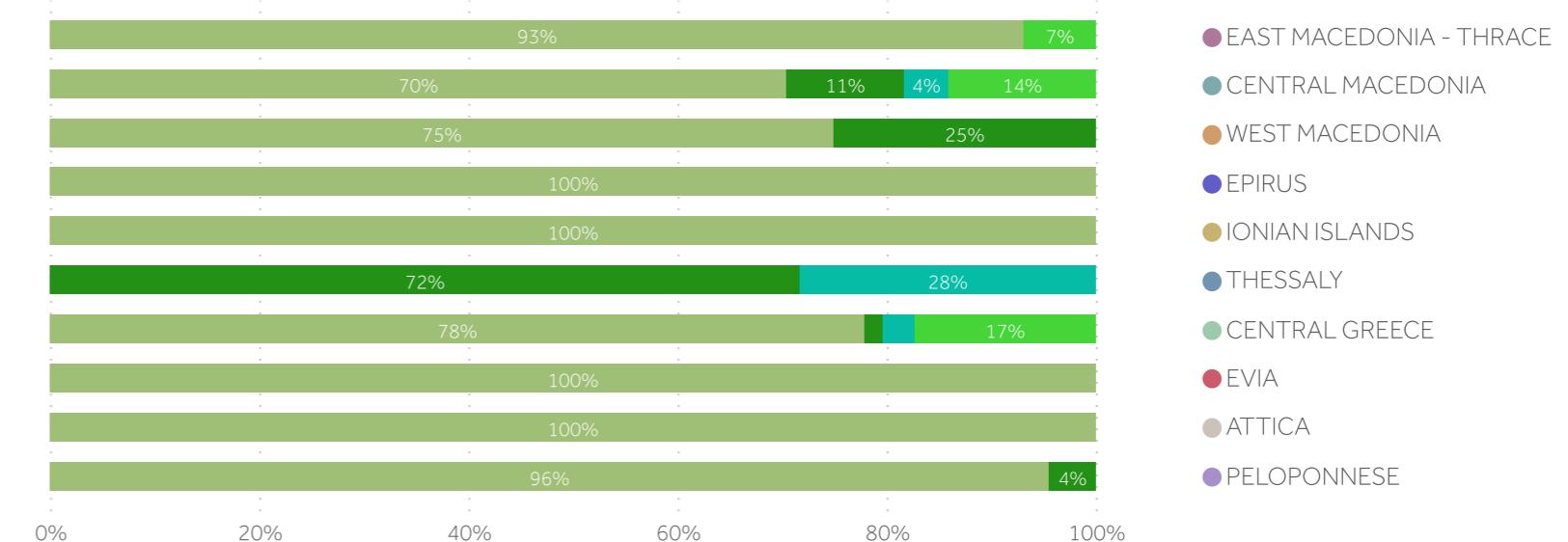
### Notes

- 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.

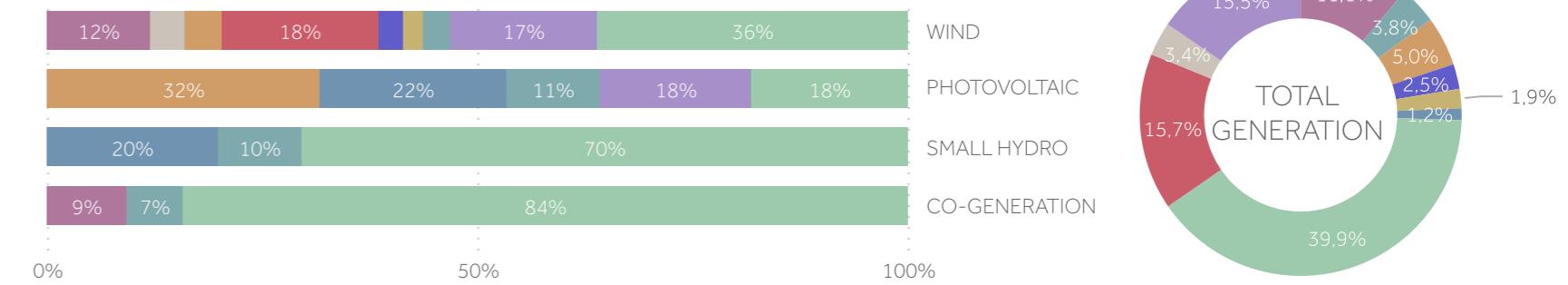
## ENERGY MIX OF SYSTEM RES GENERATION

	(MW)	%	(GWh)	%	
	3.845	87,5%	777	86,2%	WIND
	346	7,9%	35	3,9%	PHOTOVOLTAIC
	37	0,8%	15	1,7%	SMALL HYDRO
	167	3,8%	74	8,2%	CO-GENERATION
	<b>4.394</b>		<b>902</b>		

per geographical area (%)



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



## Energy on Interconnections

### COMMERCIAL PROGRAMS<sup>1</sup> (GWh)

Variation in comparison to the same month of the previous year

Total

Imports

**1.011** GWh

Exports

**191** GWh

Balance

**820** GWh

↑ 60,81%

↓ 55,95%

↑ 625 GWh

### PHYSICAL ENERGY FLOWS<sup>2</sup> (GWh)

Variation in comparison to the same month of the previous year

Total

Imports

**926** GWh

Exports

**133** GWh

Balance

**793** GWh

↑ 73,81%

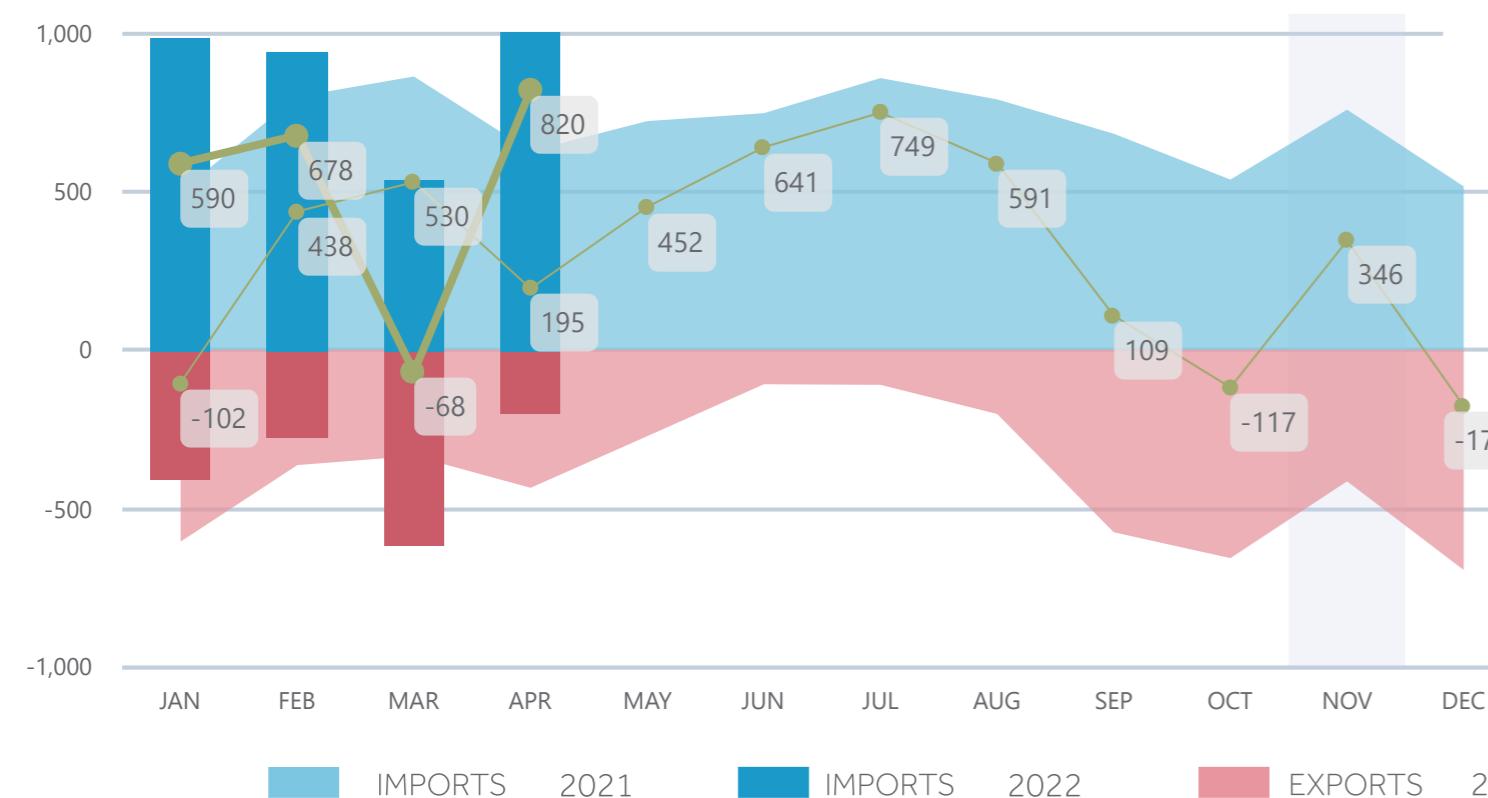
↓ 61,22%

↑ 603 GWh

### EVOLUTION OF COMMERCIAL PROGRAMS (GWh)



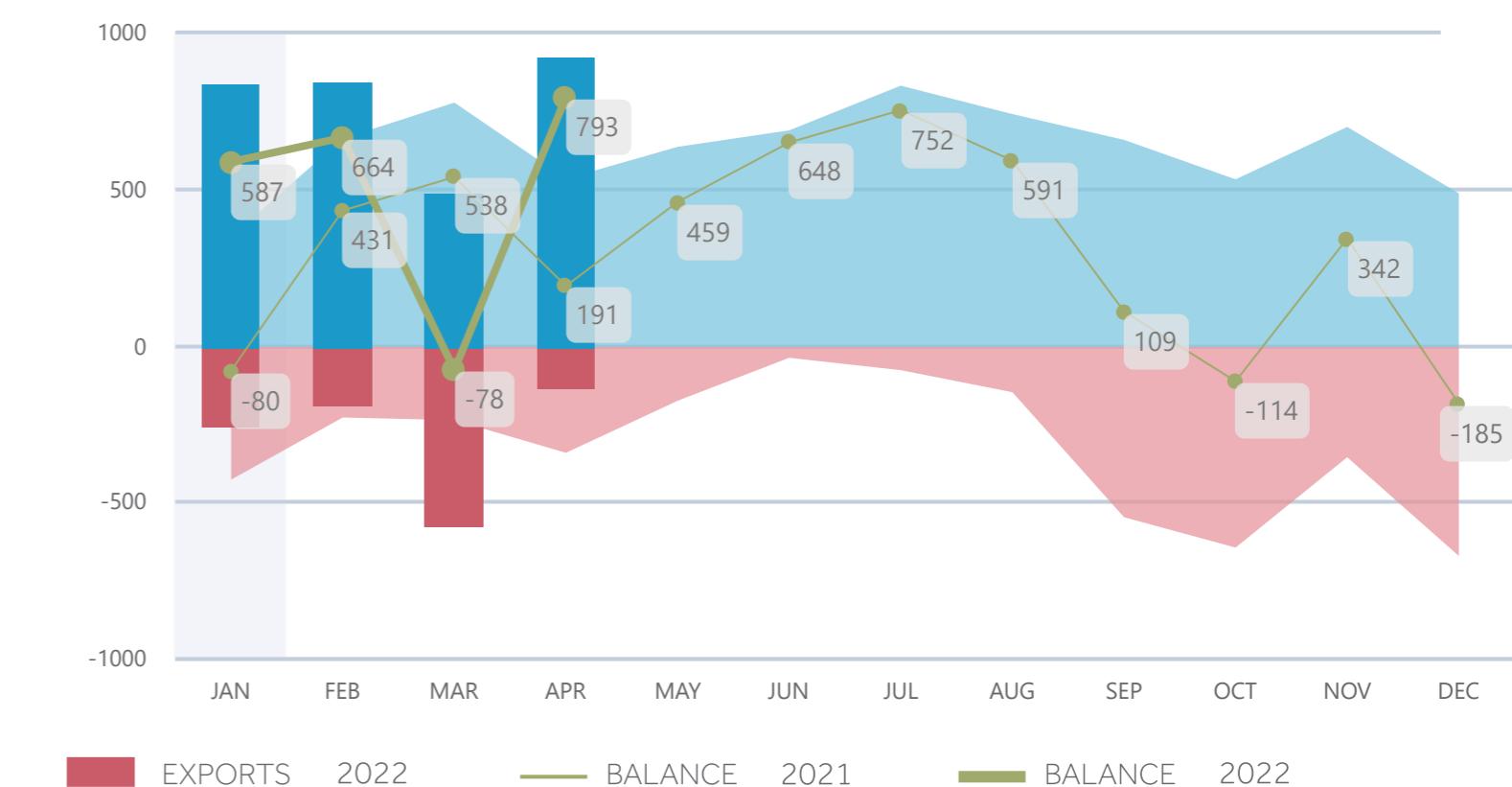
Annex 2.7



### EVOLUTION OF PHYSICAL ENERGY FLOWS (GWh)



Annex 2.8



#### Notes

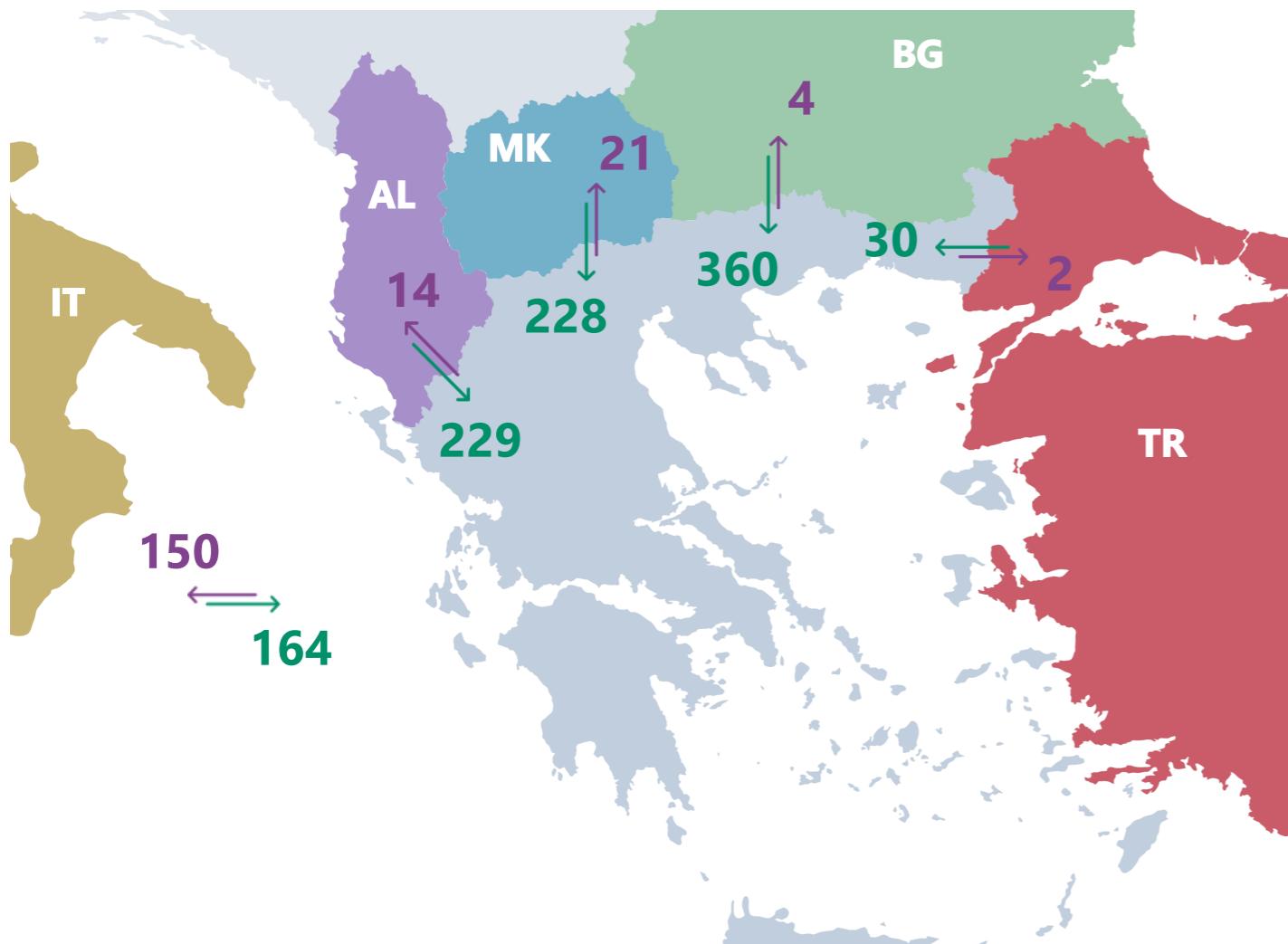
1 Balance of commercial programs in the interconnections is calculated as the difference "Commercial Program Imports" - "Commercial Program Exports" for all the interconnections.

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

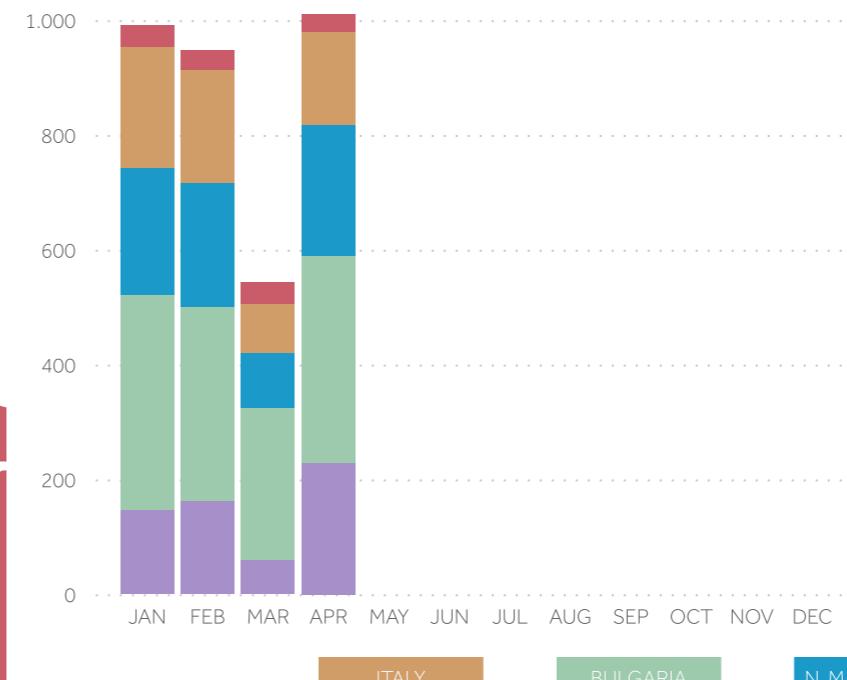
### Interconnection Balance

**820** GWh **625** GWh

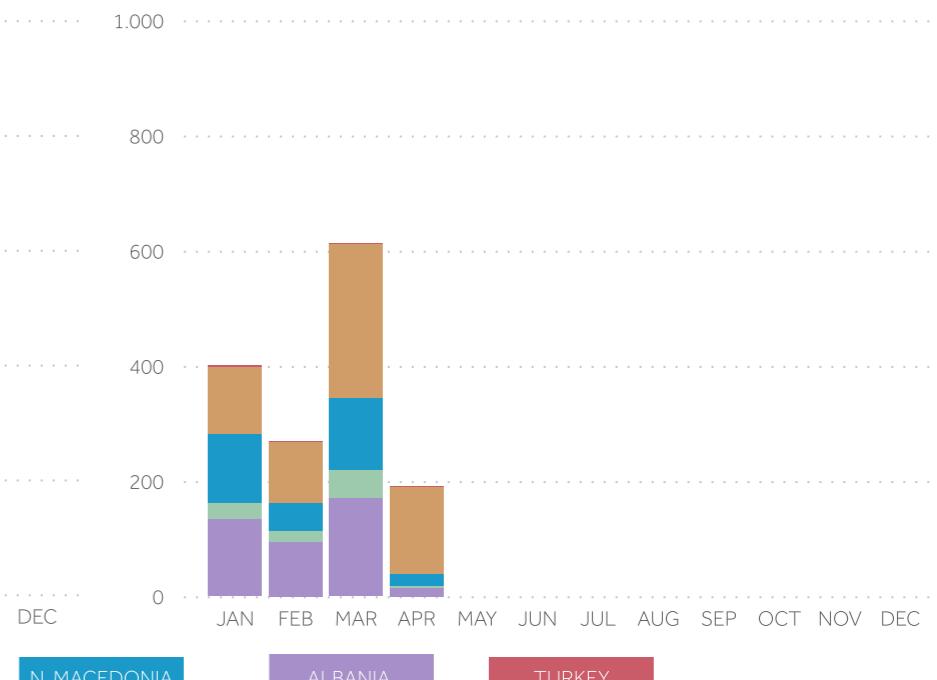


### COMMERCIAL PROGRAMS PER INTERCONNECTION

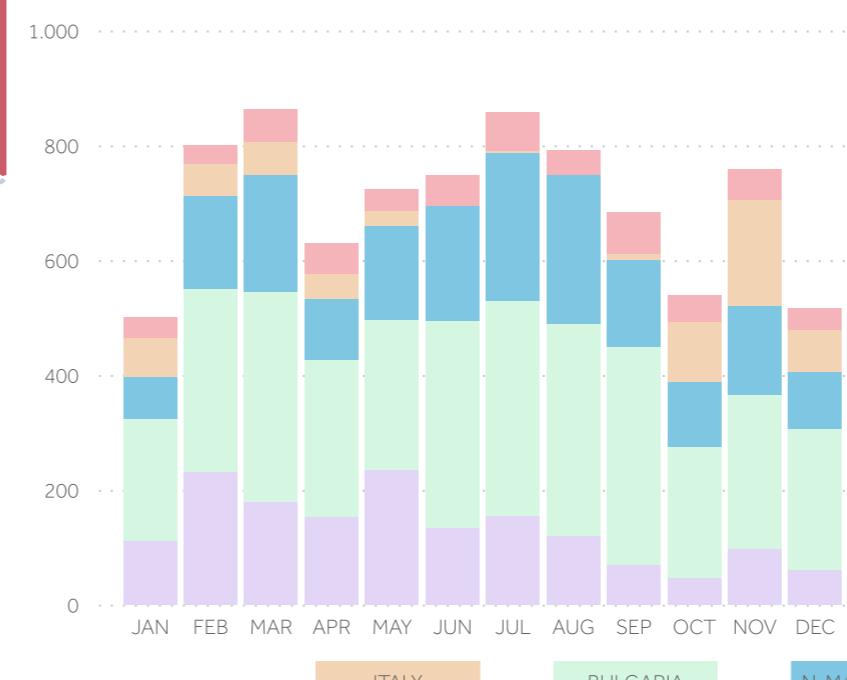
#### IMPORTS 2022



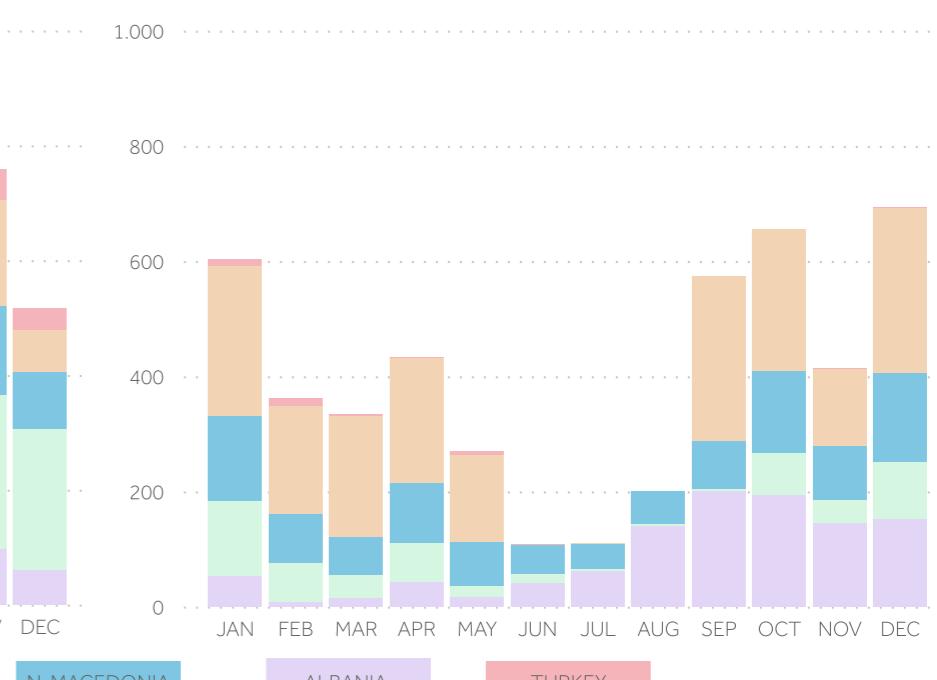
#### EXPORTS 2022



#### IMPORTS 2021



#### EXPORTS 2021





At a glance



Energy Balance



Demand



Generation



Interconnections



Annex

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MONTHLY ENERGY BULLETIN | April 2022 | 2nd VERSION

## 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										
JUN										
JUL										
AUG										
SEP										
OCT										
NOV										
DEC										
	<b>11.830,15</b>	<b>2.514,01</b>	<b>2.271,53</b>	<b>100,60</b>	<b>78,59</b>	<b>61,62</b>	<b>479,20</b>	<b>111,51</b>	<b>17.447,20</b>	<b>14.933,19</b>

## 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						
JUN						
JUL						
AUG						
SEP						
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						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						



At a glance



Energy Balance



Demand



Generation



Interconnections



Annex

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MONTHLY ENERGY BULLETIN | April 2022 | 2nd VERSION

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

**2021**

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	4.496	4.723
2	4.125	4.349
3	4.031	4.253
4	3.927	4.148
5	3.898	4.117
6	4.022	4.239
7	4.347	4.564
8	4.737	5.061
9	4.983	5.690
10	4.923	6.122
11	4.632	6.264
12	4.377	6.315
13	4.268	6.344
14	4.199	6.275
15	3.986	5.987
16	3.993	5.835
17	4.038	5.599
18	4.248	5.410
19	4.708	5.404
20	5.281	5.605
21	5.927	6.154
22	5.949	6.174
23	5.377	5.601
24	5.030	5.255

**2022**

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	4.360	4.625
2	4.026	4.290
3	3.927	4.190
4	3.850	4.111
5	3.839	4.100
6	3.947	4.209
7	4.268	4.533
8	4.683	5.088
9	4.708	5.635
10	4.439	6.018
11	4.059	6.170
12	3.769	6.243
13	3.620	6.278
14	3.500	6.251
15	3.377	6.052
16	3.427	5.865
17	3.570	5.627
18	3.896	5.415
19	4.545	5.418
20	5.236	5.619
21	5.872	6.138
22	5.771	6.037
23	5.245	5.509
24	4.898	5.161

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

Date of Maximum

18/04/2022

Date of Minimum

25/04/2022

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	4.221	4.586
2	3.860	4.243
3	3.795	4.179
4	3.749	4.125
5	3.652	4.015
6	3.900	4.263
7	4.297	4.658
8	4.744	5.139
9	5.309	5.853
10	5.680	6.433
11	5.711	6.678
12	5.661	6.798
13	5.554	6.825
14	5.441	6.792
15	5.271	6.560
16	5.281	6.441
17	5.360	6.310
18	5.487	6.218
19	5.804	6.291
20	6.194	6.532
21	6.680	6.980
22	6.515	6.810
23	5.874	6.163
24	5.428	5.711

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	3.553	3.762
2	3.319	3.520
3	3.206	3.408
4	3.120	3.322
5	3.098	3.295
6	3.130	3.323
7	3.123	3.312
8	3.049	3.435
9	2.793	3.741
10	2.383	4.065
11	1.991	4.302
12	1.692	4.445
13	1.492	4.522
14	1.540	4.647
15	1.480	4.521
16	1.641	4.439
17	1.930	4.316
18	2.456	4.251
19	3.124	4.185
20	3.881	4.327
21	4.459	4.713
22	4.585	4.829
23	4.282	4.524
24	3.980	4.213



At a glance



Energy Balance



Demand



Generation



Interconnections



Annex

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MONTHLY ENERGY BULLETIN | April 2022 | 2nd VERSION

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

LOAD REPRESENTATIVE	2022-01	2022-02	2022-03	2022-04	<u>TOTAL</u>
PPC	3.022,3	2.584,2	2.908,7	2.258,9	<b>10.774,2</b>
MYTILINEOS	322,8	282,0	316,4	255,3	<b>1.176,6</b>
HERON	298,6	267,4	293,2	237,1	<b>1.096,3</b>
ELPEDISON	276,7	233,8	266,6	234,9	<b>1.012,0</b>
NRG	200,8	171,5	194,1	150,2	<b>716,7</b>
WATT AND VOLT	117,0	93,8	101,9	72,7	<b>385,5</b>
ATTIKI GSC	98,5	83,1	91,3	73,2	<b>346,1</b>
VOLTERRA	87,1	83,3	90,8	74,9	<b>336,1</b>
ZENITH	92,8	75,7	85,8	62,1	<b>316,3</b>
VOLTON	73,8	59,3	68,1	49,6	<b>250,8</b>
PPC_USP	41,2	33,3	37,3	26,1	<b>138,0</b>
KEN	33,8	29,2	36,1	29,7	<b>128,8</b>
ELTA	12,7	10,8	11,2	8,0	<b>42,8</b>
ELINOIL	9,5	8,8	9,3	8,0	<b>35,7</b>
VIENER	8,5	8,5	8,6	6,8	<b>32,3</b>
EUNICE TRAD	3,7	3,3	3,9	3,2	<b>14,1</b>
LIG. MEGALOP	2,9	2,2	2,3	2,7	<b>10,1</b>
LIG. MELITIS	1,9	2,1	2,6	3,0	<b>9,6</b>
OTE	2,6	2,2	2,4	2,0	<b>9,1</b>
MYTILINEOS_USP	1,3	1,1	1,2	0,9	<b>4,5</b>
SOLAR ENERGY	1,1	1,0	1,3	1,0	<b>4,4</b>
HERON_USP	1,2	1,0	1,1	0,8	<b>4,2</b>
ELPEDISON_USP	1,1	0,9	1,0	0,7	<b>3,6</b>
MARKOU	0,6	0,7	0,8	0,4	<b>2,5</b>
KOR_POWER	0,4	0,3	0,3	0,5	<b>1,6</b>
NRG_USP	0,5	0,4	0,4	0,3	<b>1,5</b>
HERON2_V	0,5	0,3	0,0	0,6	<b>1,4</b>
VIOLAR	0,4	0,2	0,2	0,1	<b>0,9</b>
GREEN	0,3	0,2	0,2		<b>0,7</b>
SLR	0,0	0,0	0,0	0,1	<b>0,1</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>16.856,5</b>

## 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	565,64	88,52%	311,83	39,05%	1.381,47	64,97%	2.258,94	63,39%
MYTILINEOS	1,26	0,20%	117,53	14,72%	136,55	6,42%	255,33	7,16%
HERON	0,69	0,11%	109,95	13,77%	126,43	5,95%	237,07	6,65%
ELPEDISON	64,30	10,06%	65,20	8,16%	105,44	4,96%	234,94	6,59%
NRG	0,08	0,01%	68,10	8,53%	82,02	3,86%	150,19	4,21%
VOLTERRA	0,24	0,04%	53,28	6,67%	21,35	1,00%	74,86	2,10%
ATTIKI GSC	0,00	0,00%	30,08	3,77%	43,09	2,03%	73,17	2,05%
WATT AND VOLT	0,00	0,00%	6,90	0,86%	65,83	3,10%	72,73	2,04%
ZENITH	0,00	0,00%	4,46	0,56%	57,65	2,71%	62,11	1,74%
VOLTON	0,00	0,00%	4,69	0,59%	44,94	2,11%	49,63	1,39%
KEN	0,00	0,00%	7,04	0,88%	22,67	1,07%	29,72	0,83%
PPC_USP	0,00	0,00%	0,00	0,00%	26,12	1,23%	26,12	0,73%
ELINOIL	0,00	0,00%	6,02	0,75%	2,02	0,09%	8,04	0,23%
ELTA	0,00	0,00%	3,14	0,39%	4,88	0,23%	8,02	0,23%
VIENER	0,00	0,00%	6,74	0,84%	0,03	0,00%	6,77	0,19%
EUNICE TRAD	0,01	0,00%	1,73	0,22%	1,44	0,07%	3,17	0,09%
LIG. MELITIS	3,01	0,47%	0,00	0,00%	0,00	0,00%	3,01	0,08%
LIG. MEGALOP	2,71	0,42%	0,00	0,00%	0,00	0,00%	2,71	0,08%
OTE	0,00	0,00%	0,98	0,12%	1,01	0,05%	1,99	0,06%
SOLAR ENERGY	0,00	0,00%	0,36	0,04%	0,66	0,03%	1,02	0,03%
MYTILINEOS_USP	0,00	0,00%	0,00	0,00%	0,85	0,04%	0,85	0,02%
HERON_USP	0,00	0,00%	0,00	0,00%	0,79	0,04%	0,79	0,02%
ELPEDISON_USP	0,00	0,00%	0,00	0,00%	0,69	0,03%	0,69	0,02%
HERON2_V	0,57	0,09%	0,00	0,00%	0,00	0,00%	0,57	0,02%
KOR_POWER	0,53	0,08%	0,00	0,00%	0,00	0,00%	0,53	0,01%
MARKOU	0,00	0,00%	0,42	0,05%	0,00	0,00%	0,42	0,01%
NRG_USP	0,00	0,00%	0,00	0,00%	0,29	0,01%	0,29	0,01%
VIOLAR	0,00	0,00%	0,09	0,01%	0,01	0,00%	0,10	0,00%
SLR	0,00	0,00%	0,00	0,00%	0,06	0,00%	0,06	0,00%
<b>TOTAL</b>	<b>639,03</b>	<b>100,00%</b>	<b>798,53</b>	<b>100,00%</b>	<b>2.126,28</b>	<b>100,00%</b>	<b>3.563,84</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										
JUN										
JUL										
AUG										
SEP										
OCT										
NOV										
DEC										
	<b>1.769,41</b>	<b>5.947,48</b>	<b>1.454,45</b>	<b>8,18</b>	<b>3.780,38</b>	<b>2.514,01</b>	<b>7,12</b>	<b>9.179,52</b>	<b>12.967,01</b>	<b>15.481,02</b>

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

PRODUCER	NET GENERATION (GWh)	NET GENERATION (%)	NET CAPACITY (MW)	NET CAPACITY (%)
PPC	801,00	61,90%	7.258,86	68,23%
ELPEDISON	220,66	17,05%	810,18	7,62%
MYTILINEOS	124,87	9,65%	766,70	7,21%
HERON 2 VIOTIAS	106,44	8,23%	422,14	3,97%
KORINTHOS POWER	41,07	3,17%	433,46	4,07%
HERON	0,00	0,00%	147,76	1,39%
LIG. MEGALOPOLIS	0,00	0,00%	511,00	4,80%
LIG. MELITIS	0,00	0,00%	289,00	2,72%
<b>TOTAL</b>	<b>1.294,05</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	TOTAL
PPC	1.797,9	1.167,4	1.861,7	801,0	<b>5.628,1</b>
ELPEDISON	257,0	278,9	350,4	220,7	<b>1.107,0</b>
MYTILINEOS	293,3	240,2	310,2	124,9	<b>968,5</b>
HERON 2 VIOTIAS	132,5	146,4	247,8	106,4	<b>633,1</b>
KORINTHOS POWER	177,3	167,0	186,1	41,1	<b>571,5</b>
LIG. MEGALOPOLIS	86,2	105,7	122,1	0,0	<b>313,9</b>
LIG. MELITIS	94,8	61,6	70,4	0,0	<b>226,8</b>
HERON	0,4	0,1	3,7	0,0	<b>4,1</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>9.453,1</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	0,00	0,00%
AGIOS DIMITRIOS2	PPC	LIGNITE	274,00	0,00	0,00%
AGIOS DIMITRIOS3	PPC	LIGNITE	283,00	117,10	57,47%
AGIOS DIMITRIOS4	PPC	LIGNITE	283,00	27,89	13,69%
AGIOS DIMITRIOS5	PPC	LIGNITE	342,00	31,14	12,65%
MEGALOPOLI3	LIG. MEGALOPOLIS	LIGNITE	255,00	0,00	0,00%
MEGALOPOLI4	LIG. MEGALOPOLIS	LIGNITE	256,00	0,00	0,00%
MELITI	LIG. MELITIS	LIGNITE	289,00	0,00	0,00%
AGRAS	PPC	HYDRO	50,00	2,67	7,41%
AOOS	PPC	HYDRO	210,00	4,58	3,03%
ASOMATA	PPC	HYDRO	108,00	8,71	11,20%
EDESSAIOS	PPC	HYDRO	19,00	2,48	18,15%
ILARIONAS	PPC	HYDRO	153,00	28,56	25,92%
KASTRAKI	PPC	HYDRO	320,00	25,54	11,09%
KREMASTA	PPC	HYDRO	437,20	42,48	13,50%
LADONAS	PPC	HYDRO	70,00	11,00	21,83%
PLASTIRAS	PPC	HYDRO	129,90	6,61	7,07%
PLATANOVRYSI	PPC	HYDRO	116,00	6,73	8,06%
POLYFYTO	PPC	HYDRO	375,00	27,49	10,18%
POURNARI1	PPC	HYDRO	300,00	7,79	3,61%
POURNARI2	PPC	HYDRO	33,60	0,88	3,63%
SFIKIA	PPC	HYDRO	315,00	24,15	10,65%
STRATOS1	PPC	HYDRO	150,00	11,21	10,38%
THESAVROS	PPC	HYDRO	384,00	17,43	6,30%
ALIVERI5	PPC	NATURAL GAS CCGT	417,00	0,00	0,00%
ALOUMINIO	MYTILINEOS	NATURAL GAS CCGT	334,00	89,14	37,07%
ELPEDISON THESS	ELPEDISON	NATURAL GAS CCGT	400,18	122,57	42,54%
ELPEDISON THISVI	ELPEDISON	NATURAL GAS CCGT	410,00	98,10	33,23%
HERON CC	HERON 2 VIOTIAS	NATURAL GAS CCGT	422,14	106,44	35,02%
KOMOTINI	PPC	NATURAL GAS CCGT	476,30	13,86	4,04%
KORINTHOS POWER	KORINTHOS POWER	NATURAL GAS CCGT	433,46	41,07	13,16%
LAVRIO4	PPC	NATURAL GAS CCGT	550,20	33,33	8,41%
LAVRIO5	PPC	NATURAL GAS CCGT	377,66	105,75	38,89%
MEGALOPOLI5	PPC	NATURAL GAS CCGT	811,00	243,61	41,72%
PROTERGIA CC	MYTILINEOS	NATURAL GAS CCGT	432,70	35,73	11,47%
HERON1	HERON	NATURAL GAS OPEN CYCLE	49,25	0,00	0,00%
HERON2	HERON	NATURAL GAS OPEN CYCLE	49,25	0,00	0,00%
HERON3	HERON	NATURAL GAS OPEN CYCLE	49,25	0,00	0,00%
<b>TOTAL</b>			<b>10.639,11</b>	<b>1.294,05</b>	<b>16,89%</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					139,08	928	<b>139,08</b>	<b>928</b>
CENTRAL GREECE	79,23	907			329,41	1.747	<b>408,64</b>	<b>2.654</b>
CENTRAL MACEDONIA	65,51	867			122,57	400	<b>188,08</b>	<b>1.267</b>
EAST MACEDONIA - THRACE	24,16	500			13,86	476	<b>38,02</b>	<b>976</b>
EPIRUS	13,25	544					<b>13,25</b>	<b>544</b>
EVIA					0,00	417	<b>0,00</b>	<b>417</b>
PELOPONNESE	11,00	70	0,00	511	284,68	1.244	<b>295,68</b>	<b>1.825</b>
THESSALY	6,61	130					<b>6,61</b>	<b>130</b>
WEST MACEDONIA	28,56	153	176,13	1.745			<b>204,68</b>	<b>1.898</b>
<b>TOTAL</b>	<b>228,32</b>	<b>3.171</b>	<b>176,13</b>	<b>2.256</b>	<b>889,60</b>	<b>5.212</b>	<b>1.294,05</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							30,55	148	<b>30,55</b>	<b>148</b>
CENTRAL GREECE	62,40	133	6,41	39	10,72	20	280,18	1.340	<b>359,71</b>	<b>1.532</b>
CENTRAL MACEDONIA	4,84	16	3,86	29	1,48	11	24,24	127	<b>34,42</b>	<b>182</b>
EAST MACEDONIA - THRACE	6,88	18					93,47	484	<b>100,35</b>	<b>502</b>
EPIRUS							22,46	104	<b>22,46</b>	<b>104</b>
EVIA							141,96	677	<b>141,96</b>	<b>677</b>
IONIAN ISLANDS							17,56	93	<b>17,56</b>	<b>93</b>
PELOPONNESE			6,23	47			133,37	705	<b>139,61</b>	<b>751</b>
THESSALY			7,66	48	3,02	6			<b>10,68</b>	<b>54</b>
WEST MACEDONIA			11,23	184			33,53	167	<b>44,76</b>	<b>351</b>
<b>TOTAL</b>	<b>74,12</b>	<b>167</b>	<b>35,39</b>	<b>346</b>	<b>15,22</b>	<b>37</b>	<b>777,32</b>	<b>3.845</b>	<b>902,05</b>	<b>4.394</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			
JUN			
JUL			
AUG			
SEP			
OCT			
NOV			
DEC			
<b>TOTAL</b>	<b>1.473,329</b>	<b>3.492,490</b>	<b>2.019,161</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			
JUN			
JUL			
AUG			
SEP			
OCT			
NOV			
DEC			
<b>TOTAL</b>	<b>1.140,276</b>	<b>3.106,452</b>	<b>1.966,175</b>



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## 2.9 Commercial Programs of Imports per Border (GWh)

<b>2021</b>	<b>INTERCONNECTION</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>TOTAL</b>
	ALBANIA	112,140	230,971	179,442	152,758	234,191	134,640	155,153	120,287	69,445	47,248	97,234	61,083	<b>1.594,592</b>
	BULGARIA	212,773	319,032	366,026	274,673	260,930	359,917	374,687	368,412	379,675	227,381	268,104	245,977	<b>3.657,587</b>
	ITALY	68,338	56,556	57,244	43,346	25,433	0,000	3,828	0,000	10,540	104,140	183,533	74,013	<b>626,971</b>
	N. MACEDONIA	71,447	161,798	203,682	104,957	165,335	199,162	257,490	260,543	151,297	113,918	155,938	98,523	<b>1.944,090</b>
	TURKEY	36,211	31,473	57,024	52,709	36,868	53,950	67,149	41,950	72,000	45,700	53,944	37,250	<b>586,228</b>
	<b>TOTAL</b>	<b>500,909</b>	<b>799,830</b>	<b>863,418</b>	<b>628,443</b>	<b>722,757</b>	<b>747,669</b>	<b>858,307</b>	<b>791,192</b>	<b>682,957</b>	<b>538,387</b>	<b>758,753</b>	<b>516,846</b>	<b>8.409,468</b>

<b>2022</b>	<b>INTERCONNECTION</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>TOTAL</b>
	ALBANIA	147,490	163,144	60,643	228,934	<b>600,211</b>
	BULGARIA	374,953	337,030	264,373	360,108	<b>1.336,464</b>
	ITALY	210,696	197,158	86,204	163,501	<b>657,559</b>
	N. MACEDONIA	220,180	216,560	95,520	228,066	<b>760,326</b>
	TURKEY	37,194	33,600	37,148	29,988	<b>137,930</b>
	<b>TOTAL</b>	<b>990,513</b>	<b>947,492</b>	<b>543,888</b>	<b>1.010,597</b>	<b>3.492,490</b>

## 2.10 Commercial Programs of Exports per Border (GWh)

<b>2021</b>	<b>INTERCONNECTION</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>TOTAL</b>
	ALBANIA	53,907	7,997	14,875	42,918	17,412	41,958	63,178	141,345	200,783	194,616	145,837	152,215	<b>1.077,041</b>
	BULGARIA	130,437	68,615	40,242	68,113	19,322	15,242	2,302	3,676	4,214	71,837	39,805	98,856	<b>562,661</b>
	ITALY	258,873	186,937	208,940	216,979	152,052	0,000	0,110	0,000	286,321	245,512	133,409	284,846	<b>1.973,979</b>
	N. MACEDONIA	148,015	85,042	66,893	104,511	75,519	49,873	43,276	55,671	82,400	143,392	93,979	155,958	<b>1.104,529</b>
	TURKEY	11,889	13,383	2,124	1,090	6,454	0,005	0,000	0,000	0,000	0,000	0,085	0,815	<b>35,845</b>
	<b>TOTAL</b>	<b>603,121</b>	<b>361,974</b>	<b>333,074</b>	<b>433,611</b>	<b>270,759</b>	<b>107,078</b>	<b>108,866</b>	<b>200,692</b>	<b>573,718</b>	<b>655,357</b>	<b>413,115</b>	<b>692,690</b>	<b>4.754,055</b>

<b>2022</b>	<b>INTERCONNECTION</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>TOTAL</b>
	ALBANIA	134,757	94,445	171,319	14,096	<b>414,617</b>
	BULGARIA	27,739	18,184	49,339	4,476	<b>99,738</b>
	ITALY	115,453	106,567	267,077	150,359	<b>639,456</b>
	N. MACEDONIA	120,530	50,250	123,900	20,503	<b>315,183</b>
	TURKEY	2,265	0,023	0,485	1,562	<b>4,335</b>
	<b>TOTAL</b>	<b>400,744</b>	<b>269,469</b>	<b>612,120</b>	<b>190,996</b>	<b>1.473,329</b>



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## Remarks

**1**

The data presented in this bulletin result from the second clearing 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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