

# MONTHLY ENERGY BULLETIN

April 2023 - 2nd Edition



At a glance

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Energy Balance

02



Demand

03



Generation

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Interconnections

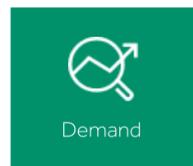
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Annex

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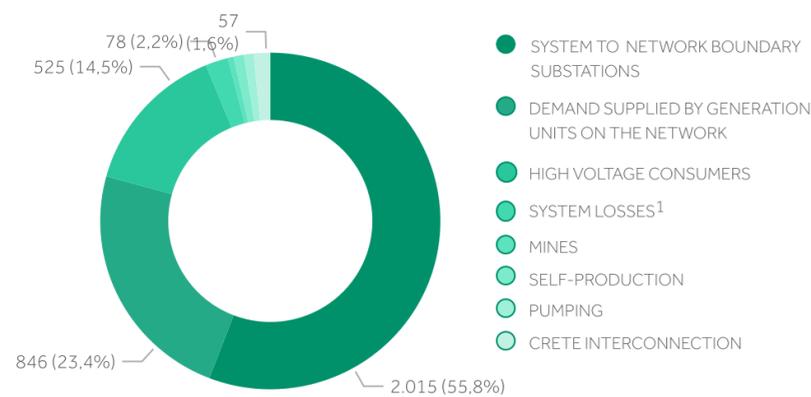
# The Month at a glance



Total Demand  
**3.609 GWh**

↓ **2,40%** Variation in comparison to the same month of the previous year

## Estimation of total demand (GWh)



## Maximum total demand

↑ 06/04/2023 21:00  
**6.632 MW**

## Minimum total demand

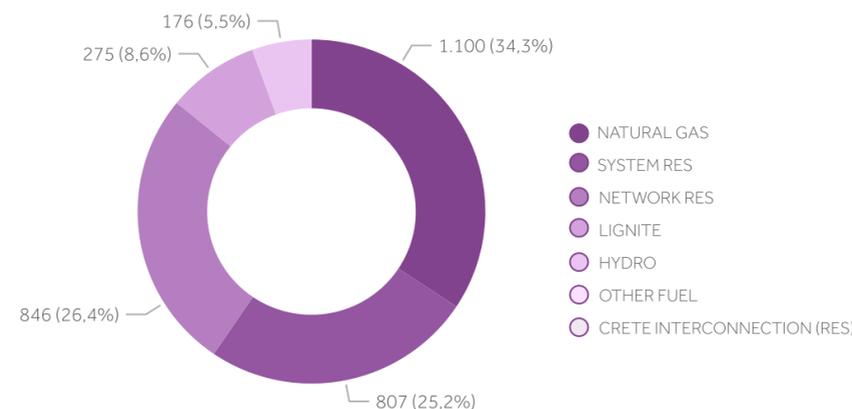
↓ 17/04/2023 5:00  
**3.370 MW**



Total Generation  
**3.205 GWh**

↑ **10,34%** Variation in comparison to the same month of the previous year

## Estimation of total generation (GWh)



Conventional Generation 42,9% 1.376



Hydro Generation 5,5% 176



RES Generation 51,6% 1.654



Interconnection Balance  
**404 GWh**

↓ **389 GWh** Variation in comparison to the same month of the previous year

## Imports

↓ **713 GWh**  
↓ **23,05%**



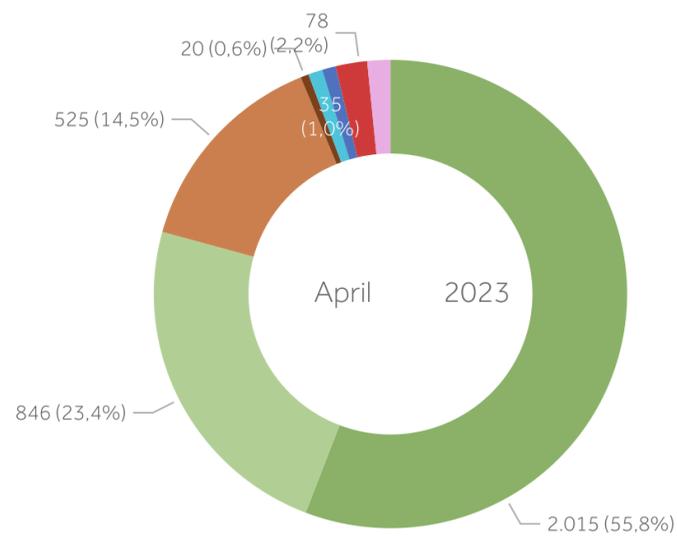
## Exports

↑ **308 GWh**  
↑ **132,46%**

<sup>1</sup> The percentage which refers to losses in this graph is not associated to the Percentage of System Losses presented in page 5 of the present Bulletin.

# Energy Balance in the Interconnected System and Network

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



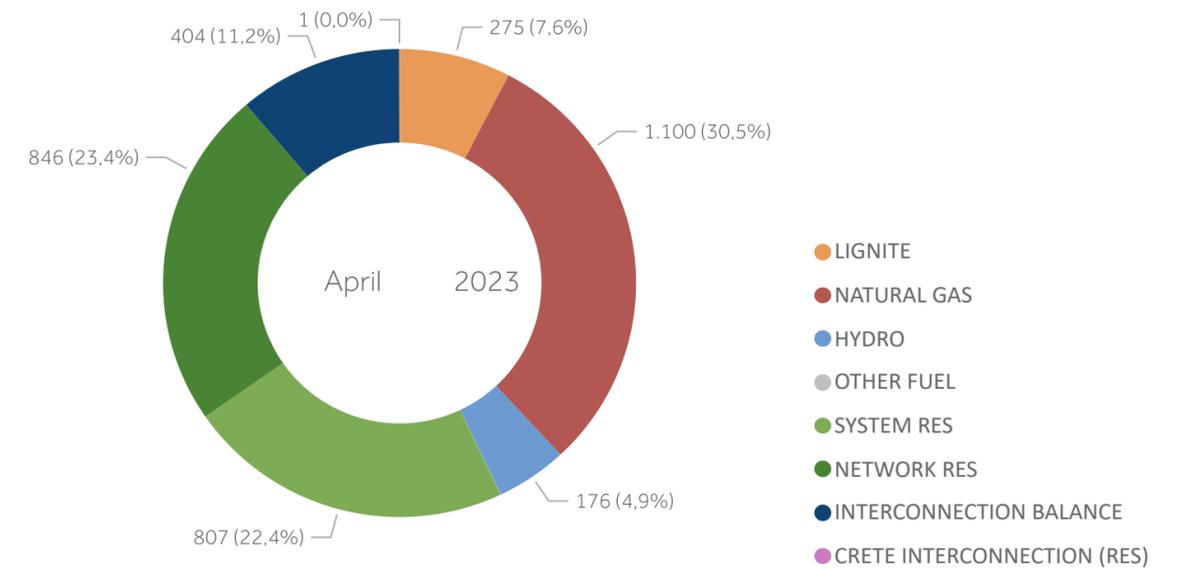
Energy Balance

April 2023

**3.609 GWh**

- SYSTEM TO NETWORK BOUNDARY SUBSTATIONS
- NETWORK DEMAND
- HIGH VOLTAGE CONSUMERS
- MINES
- SELF-PRODUCTION
- PUMPING
- SYSTEM LOSSES <sup>4</sup>
- INTERCONNECTION BALANCE
- CRETE INTERCONNECTION

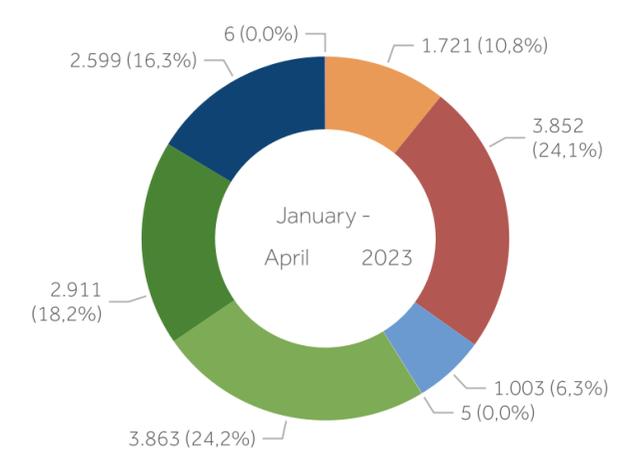
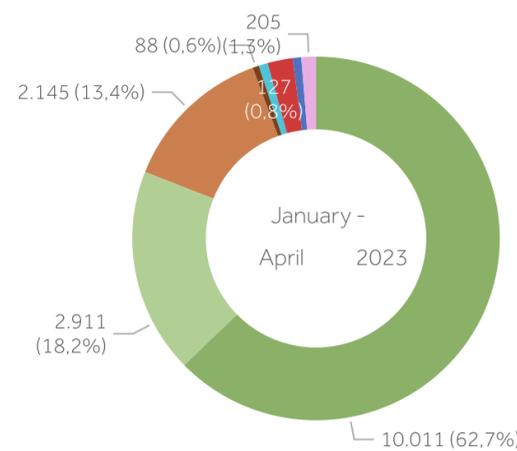
## ESTIMATION OF TOTAL GENERATION <sup>2</sup> & INTERCONNECTION BALANCE <sup>3</sup>



Energy Balance

January 2023 - April 2023

**15.960 GWh**



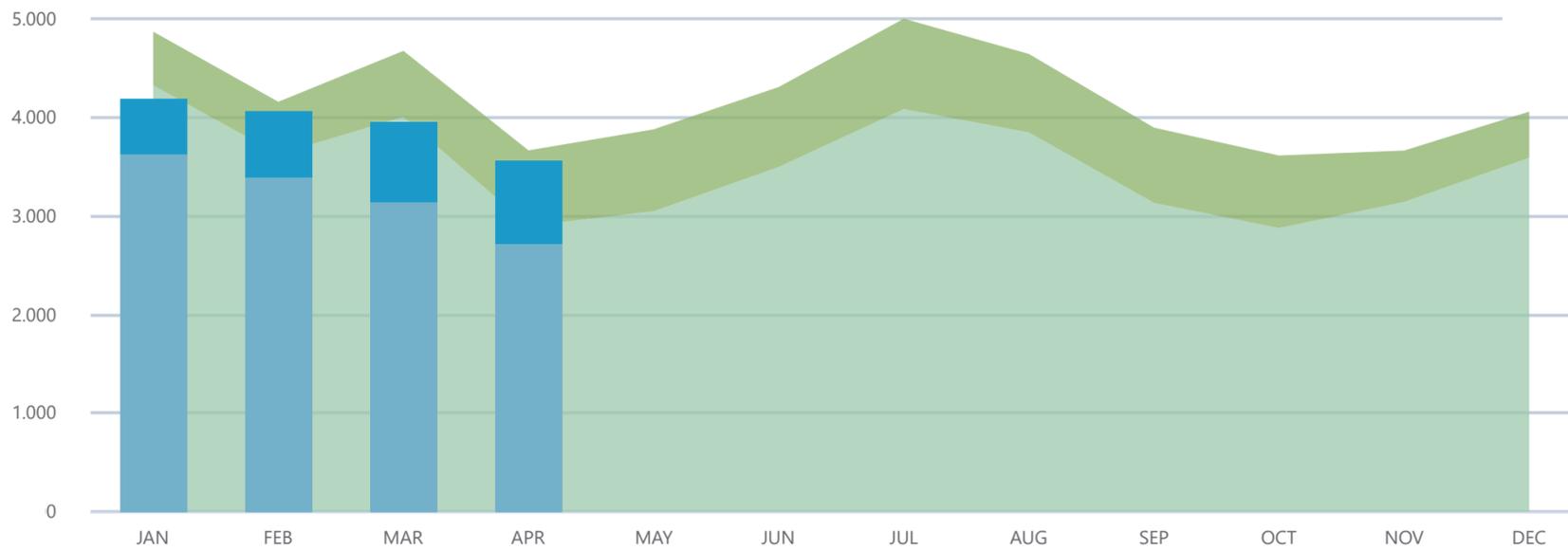
### Notes

- 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.
- 4 The percentage which refers to losses in this graph is not associated to the Percentage of System Losses presented in page 5 of the present Bulletin.

# Total Demand & System Demand

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

Annex 1.1



Total Demand <sup>2</sup>

**3.576** GWh

↓ 2,55% Variation in comparison to the same month of the previous year

System Demand <sup>1</sup>

**2.730** GWh

↓ 5,94% Variation in comparison to the same month of the previous year

### VARIATION OF TOTAL DEMAND (GWh)

April 2022 - April 2023

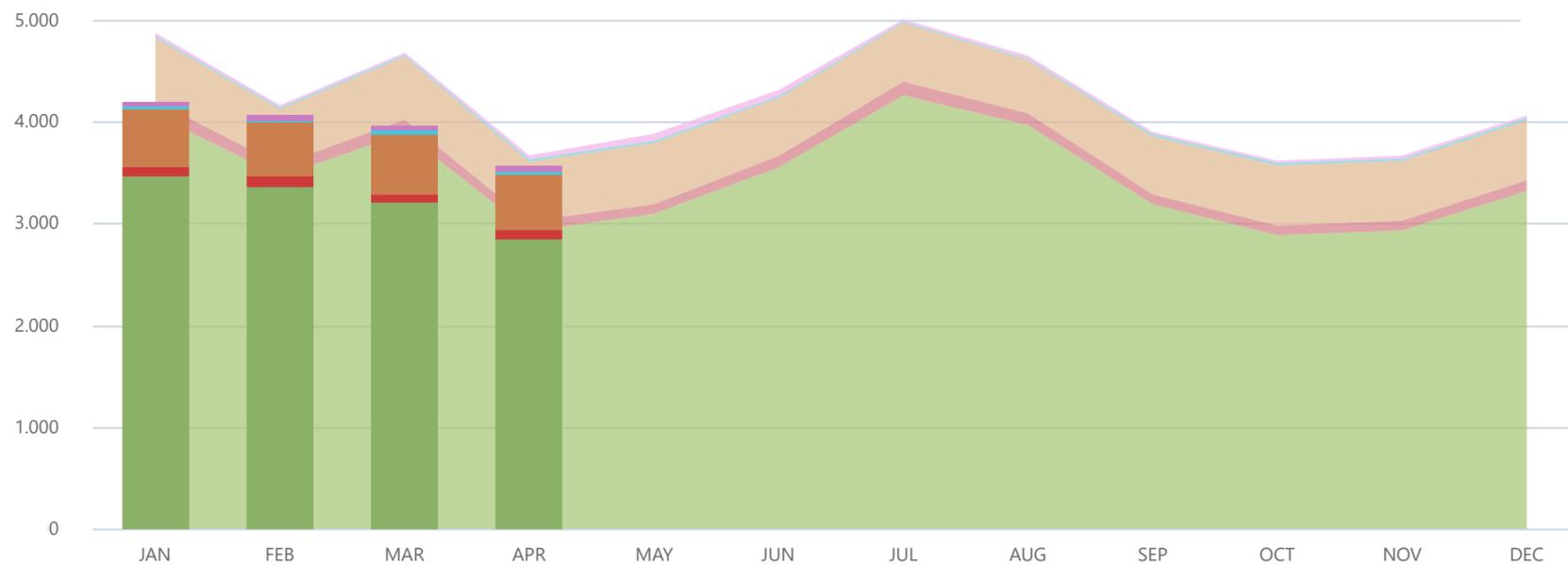


### Notes

- 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.
- 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) Annex1.1 per consumption category



SELF-PRODUCTION



HIGH VOLTAGE CONSUMERS / MINES



SYSTEM LOSSES



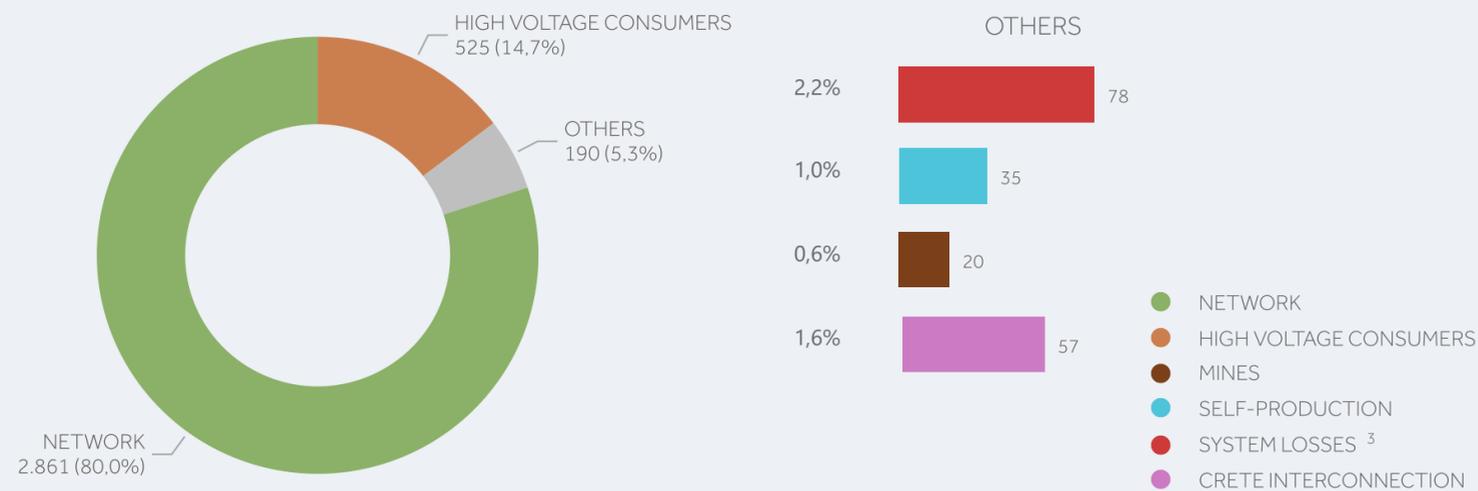
NETWORK



CRETE INTERCONNECTION



## ESTIMATION OF DEMAND PER CONSUMPTION CATEGORY (GWh)

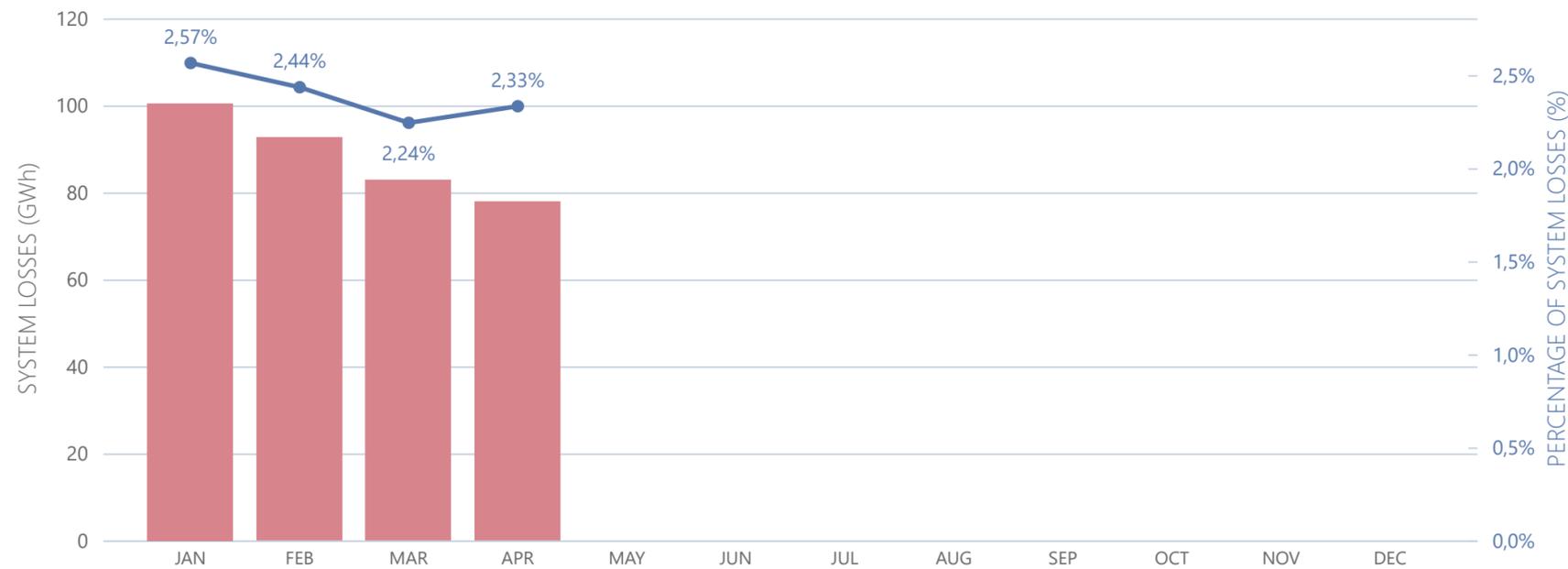


### Notes

- 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.
- 3 The percentage which refers to losses in this graph is not associated to the Percentage of System Losses presented in page 5 of the present Bulletin.

# Analysis of System Losses

## EVOLUTION OF SYSTEM LOSSES (GWh) and PERCENTAGE OF SYSTEM LOSSES (%) in relation to the Total Injected Energy into the System (%)



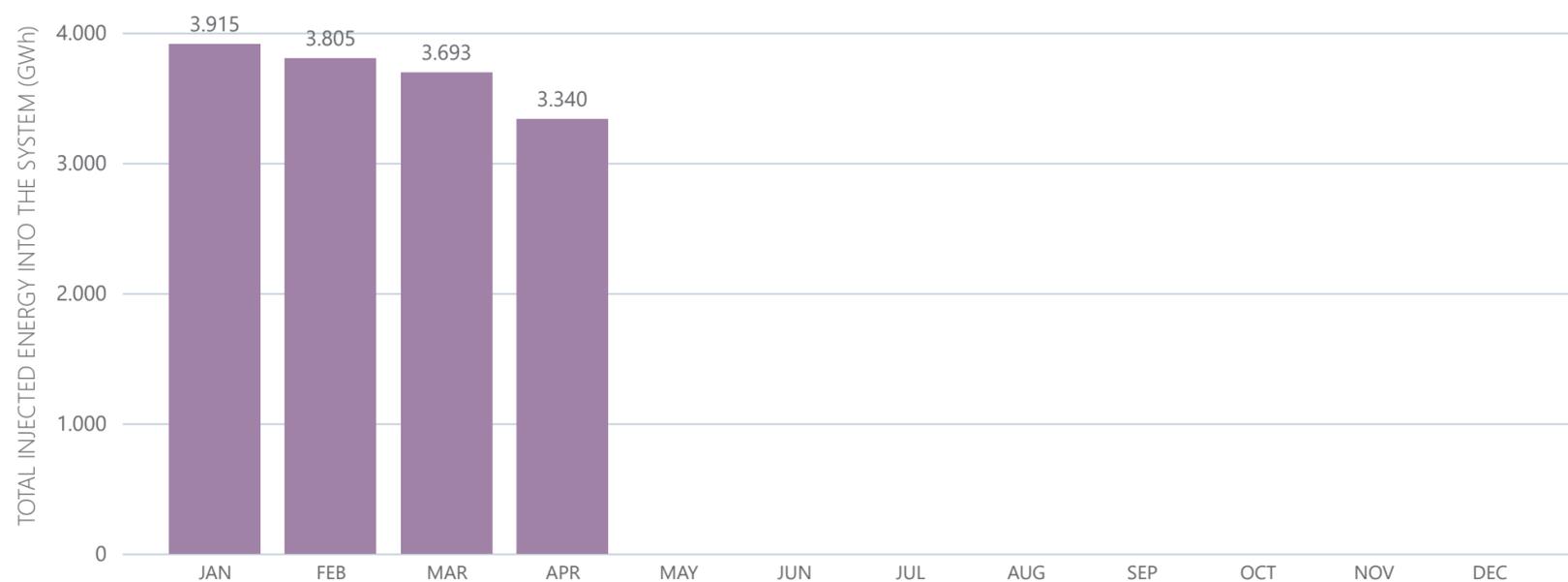
### PERCENTAGE OF SYSTEM LOSSES (%)

April 2023

**2,33%**

in relation to the Total Injected Energy into the System

## EVOLUTION OF TOTAL INJECTED ENERGY INTO THE SYSTEM (GWh)

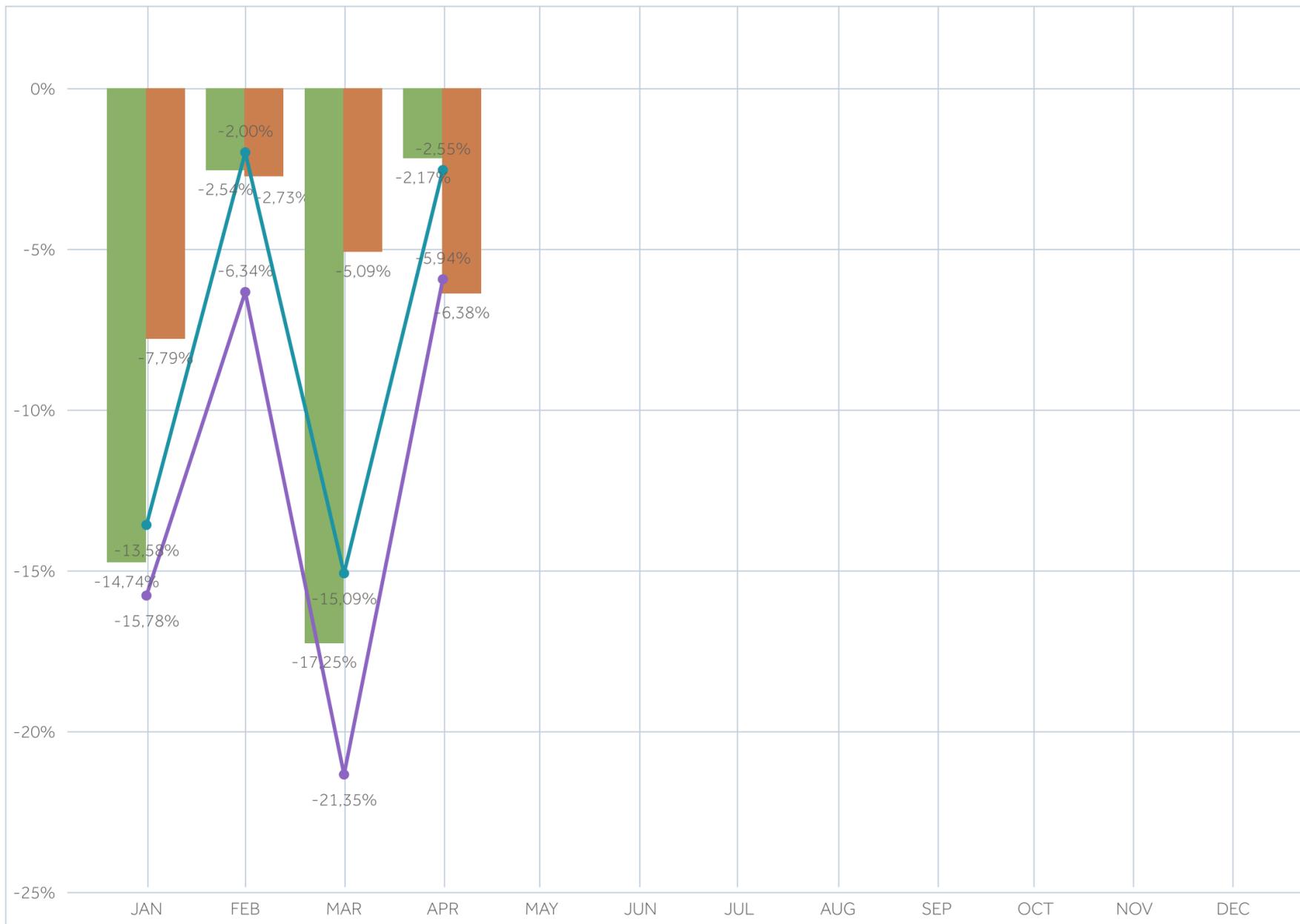


#### Notes

- 1 The Percentage of System Losses is calculated as the quotient of System Losses to the Total Injected Energy into the System.
- 2 The Total Injected Energy into the System includes the energy generated by conventional and RES units connected to the System, the injections from the interconnections into the System and the energy injected into the System from the System to Network boundary substations.

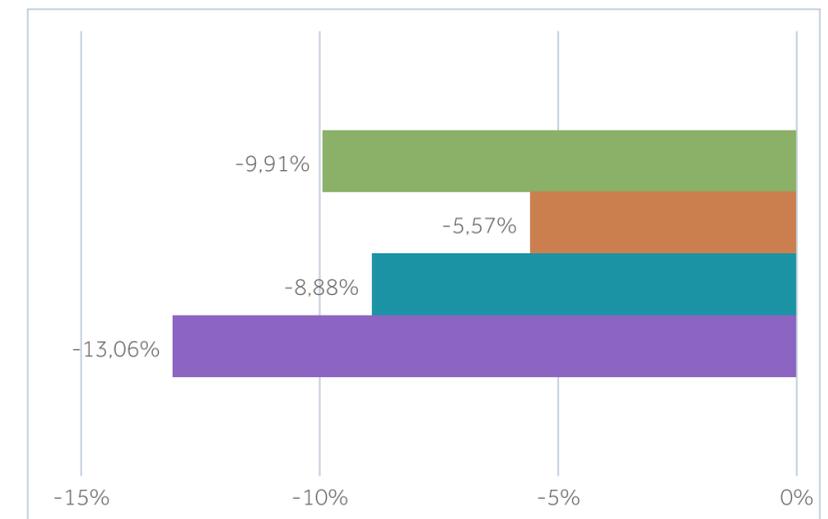
# Evolution of Demand in comparison to the previous year

## 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

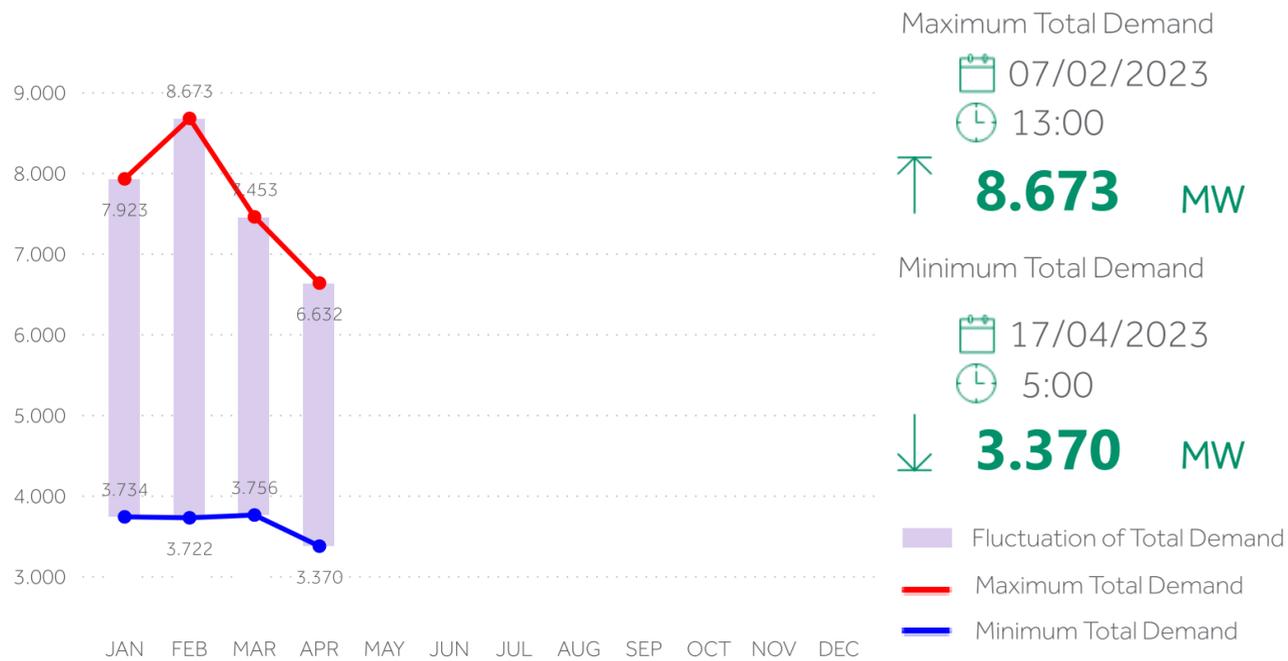
<sup>1</sup> Network Demand includes the estimation of demand in the System-Network boundary substations and the estimation of demand supplied by production units in the Network. Network generation results from certified measurements for the Medium Voltage and measurements and estimations for the Low Voltage.

<sup>2</sup> Demand does not include pumping.

## MAXIMUM & MINIMUM HOURLY TOTAL DEMAND (MW)

current year

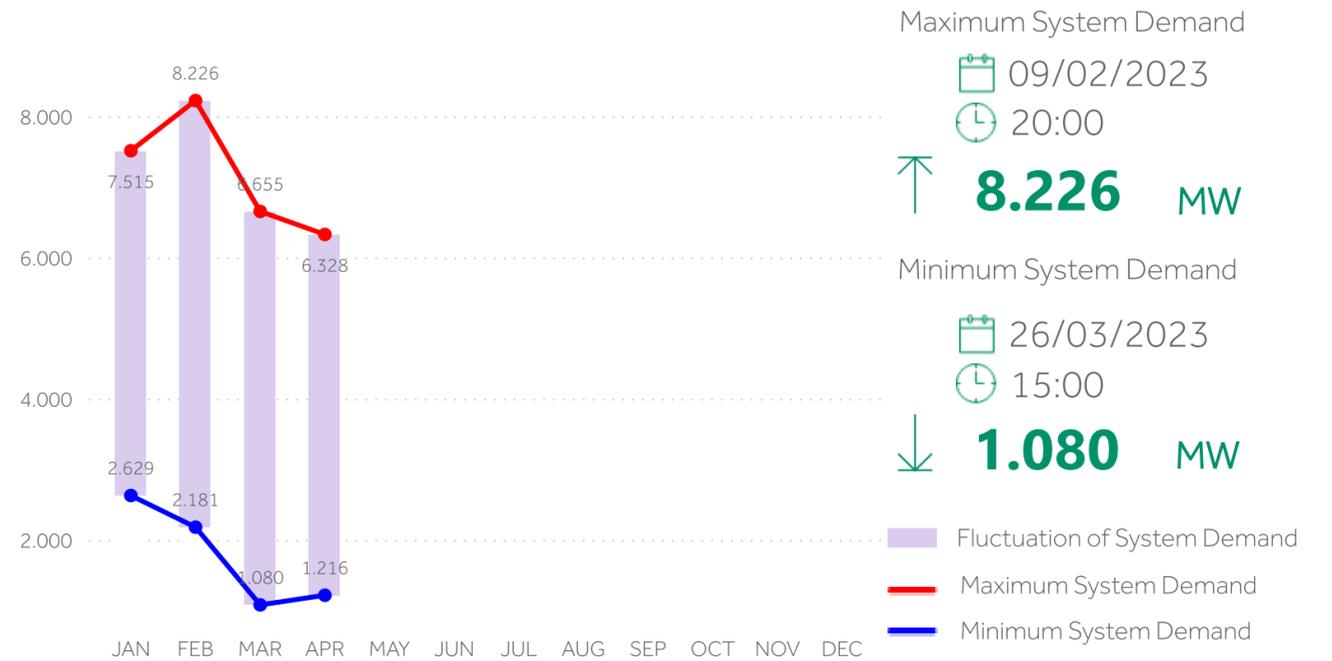
Annex 1.2



## MAXIMUM & MINIMUM HOURLY SYSTEM DEMAND (MW)

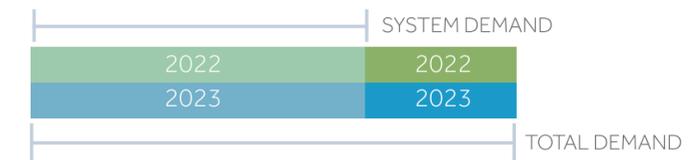
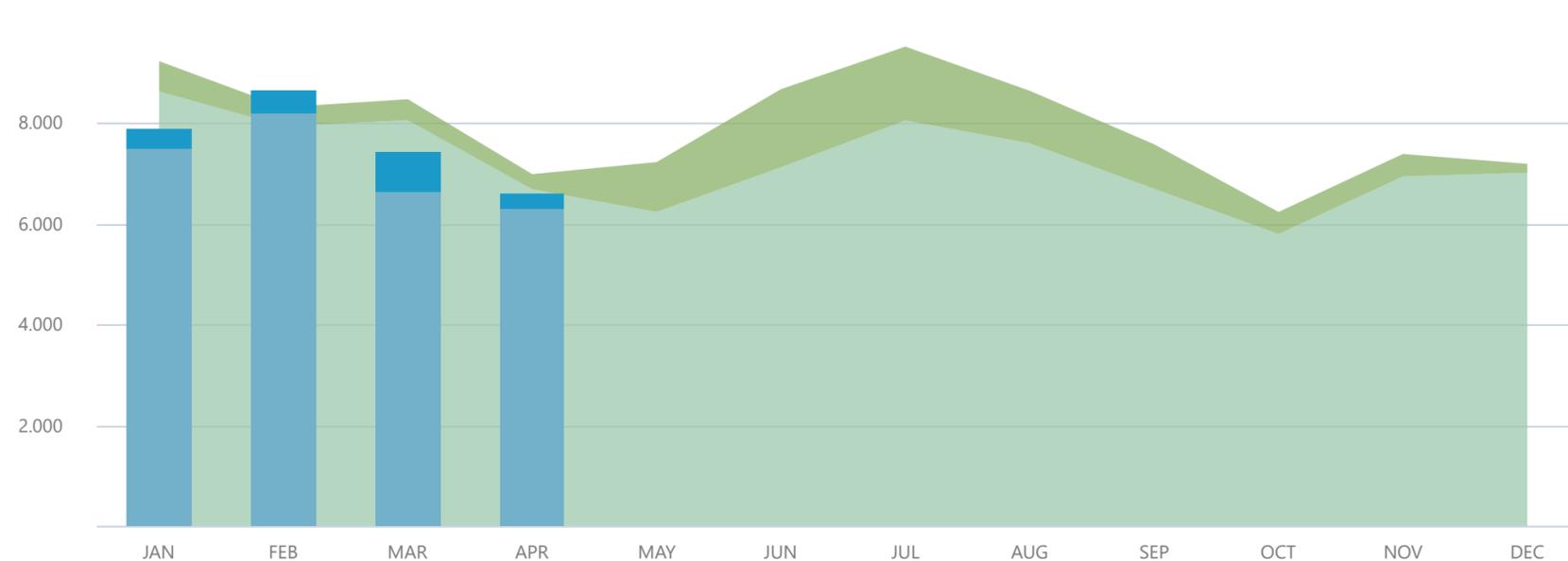
current year

Annex 1.3



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

Annex 1.2 - 1.3



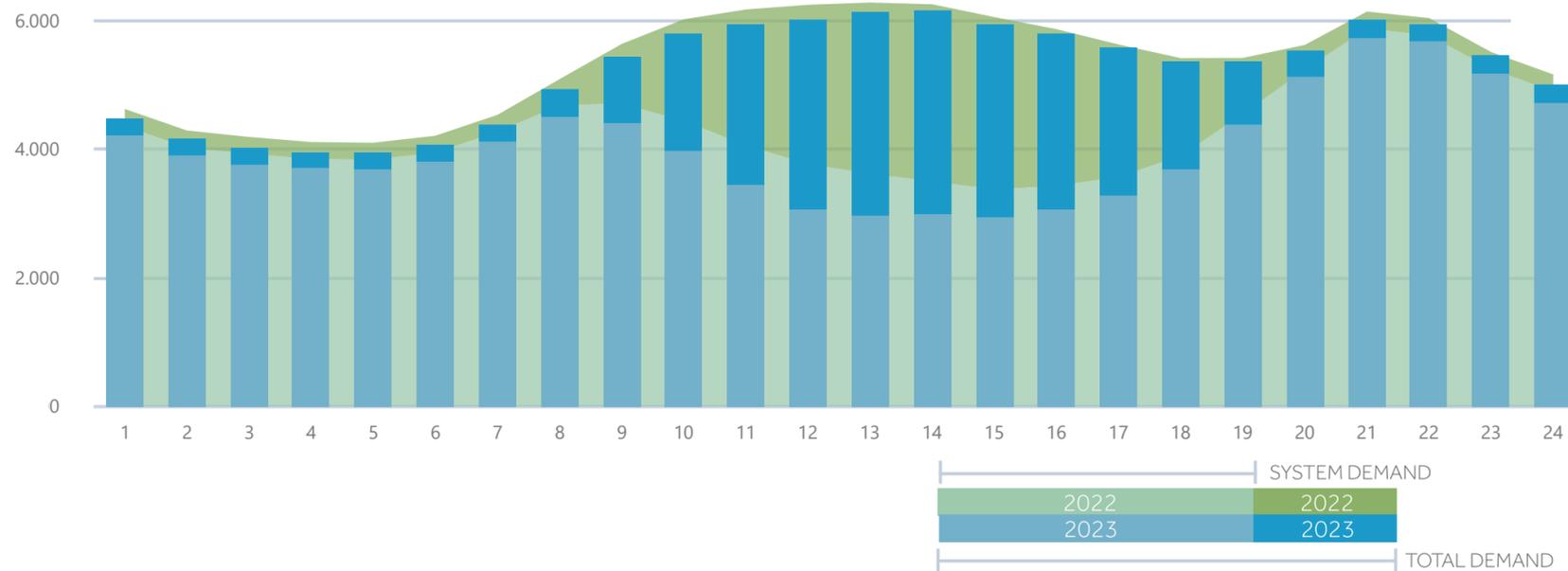
### Notes

- 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 & previous year

Annex 1.4



### MAXIMUM TOTAL DEMAND

06/04/2023

21:00

**6.632 MW**

### MINIMUM TOTAL DEMAND

17/04/2023

5:00

**3.370 MW**

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

During the day of maximum and minimum of month April 2023

Annex 1.5



### MAXIMUM SYSTEM DEMAND

06/04/2023

21:00

**6.328 MW**

### MINIMUM SYSTEM DEMAND

15/04/2023

14:00

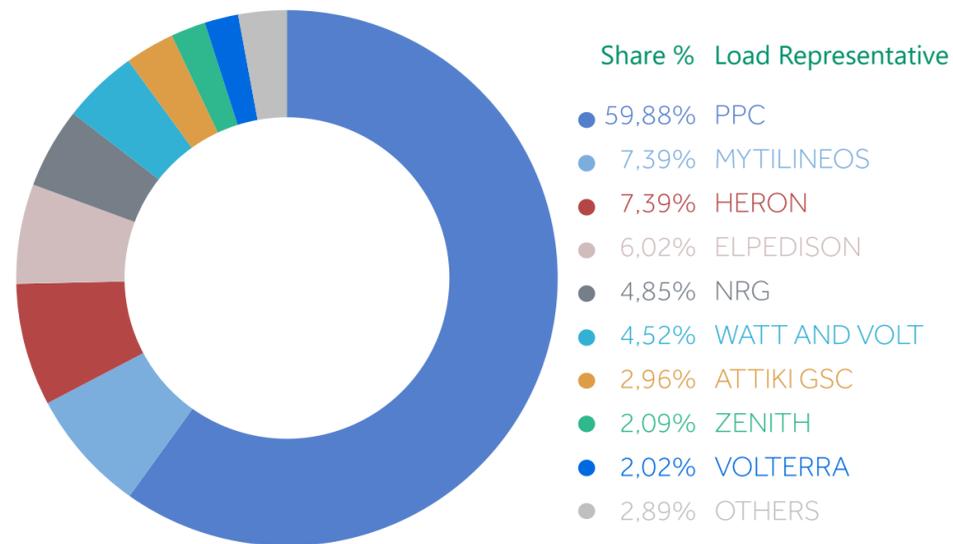
**1.216 MW**

#### 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.

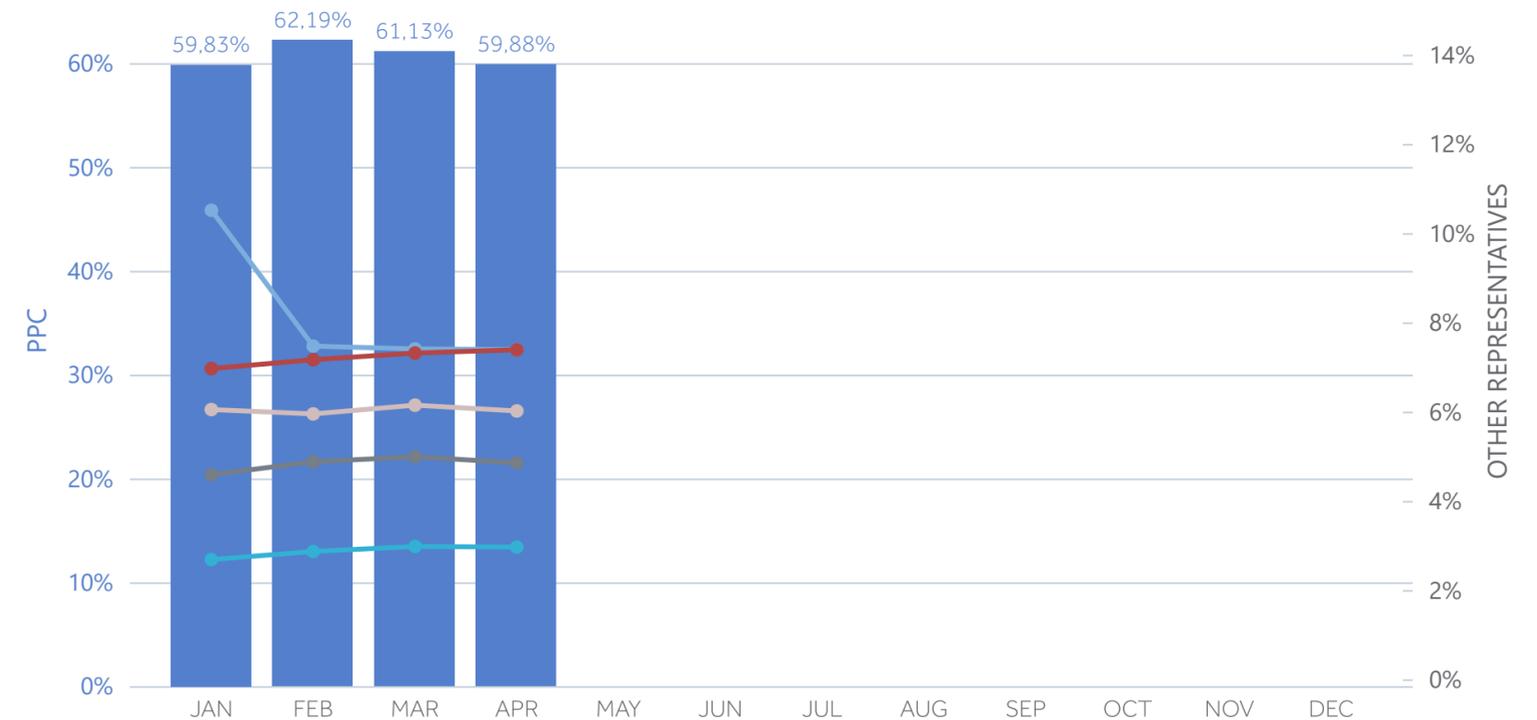
# Market Share of Load Representatives - Demand per voltage level

MARKET SHARE OF LOAD REPRESENTATIVES (%)  Annex 1.7

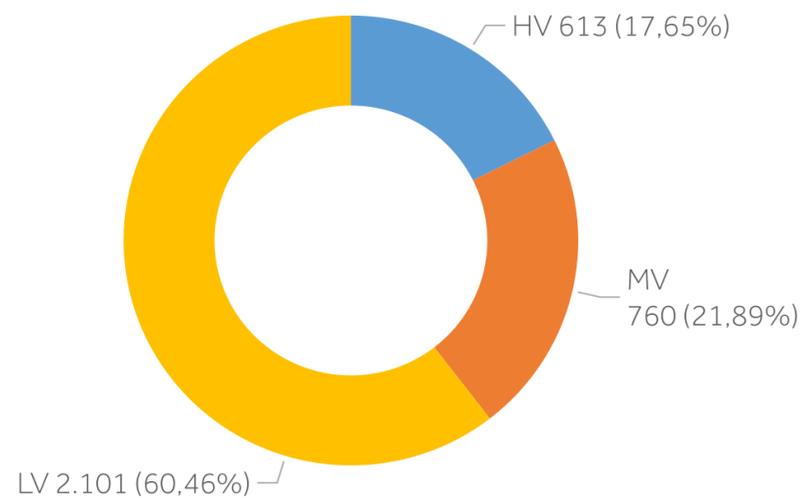


EVOLUTION OF MARKET SHARE OF LOAD REPRESENTATIVES (%)  Annex 1.6

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



DEMAND PER VOLTAGE LEVEL (GWh/%)

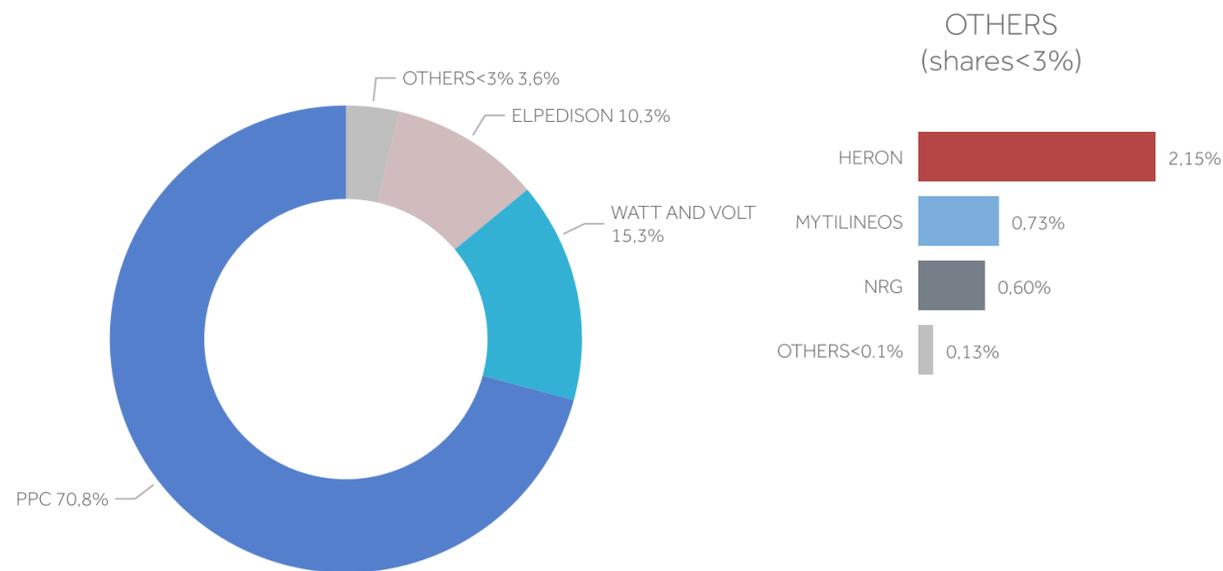


Notes

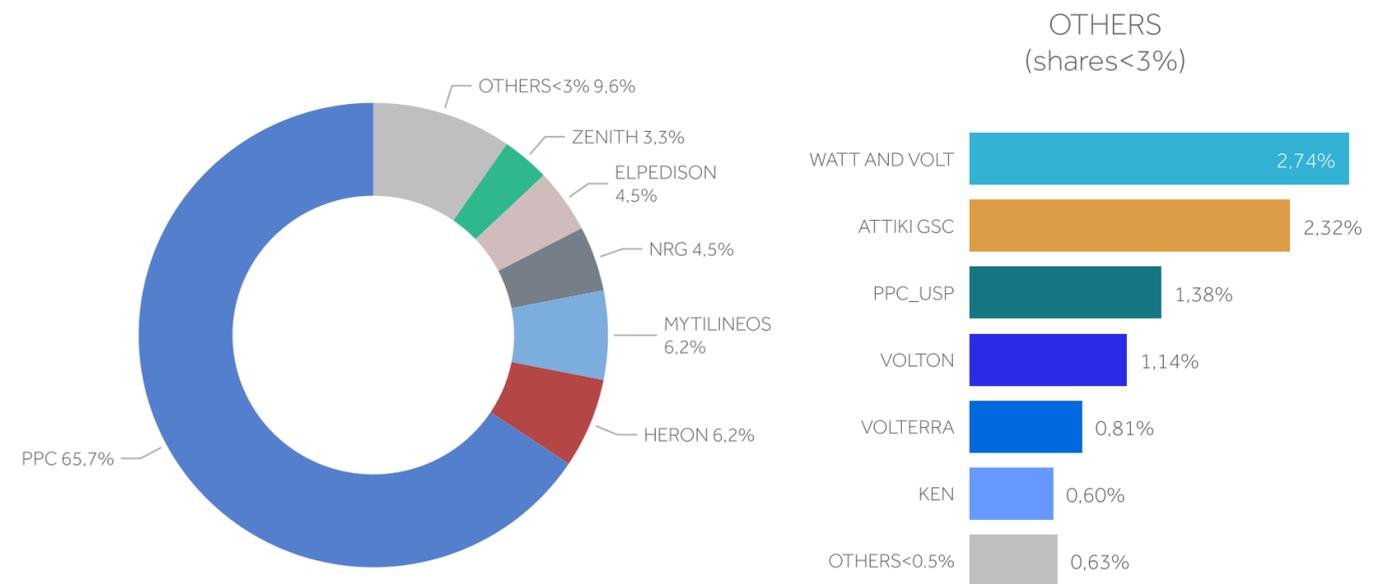
- Data used for the calculation of the shares of the representatives include:
  - Self-supplied consumers and producers representing the auxiliary loads of their production units.
  - Consumption of Low Voltage consumers is based on a preliminary estimation of the Network Operator.
- Values in GWh are 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

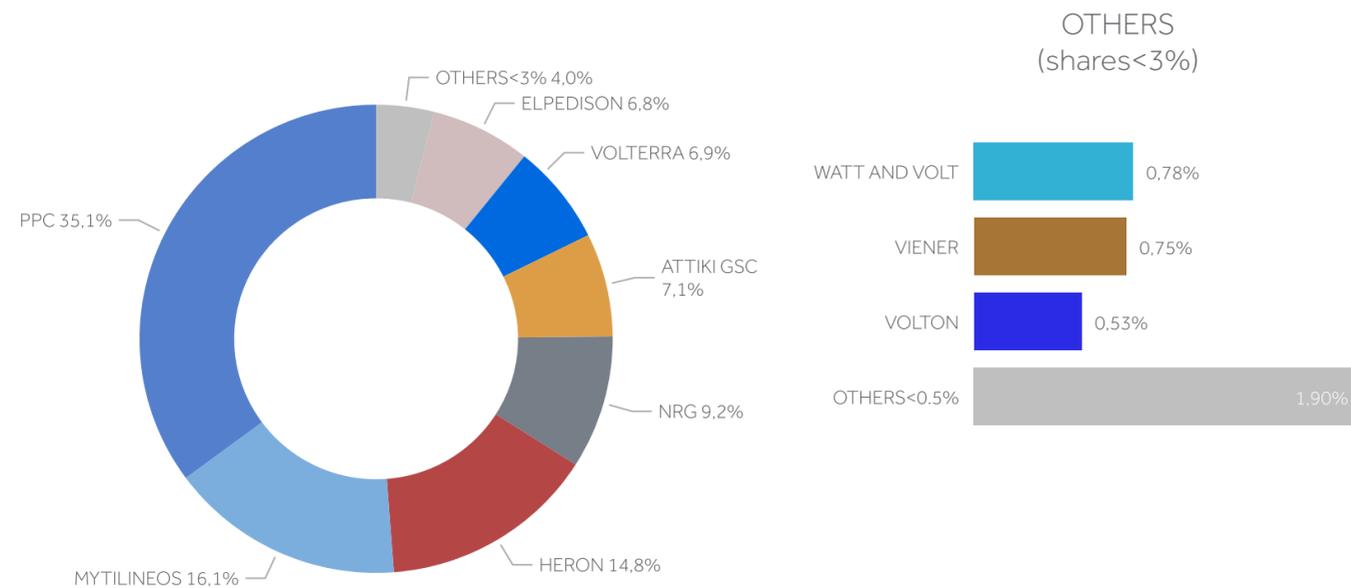
MARKET SHARE OF LOAD REPRESENTATIVES IN HV (%) Annex 1.7



MARKET SHARE OF LOAD REPRESENTATIVES IN LV (%) Annex 1.7



MARKET SHARE OF LOAD REPRESENTATIVES IN MV (%) Annex 1.7

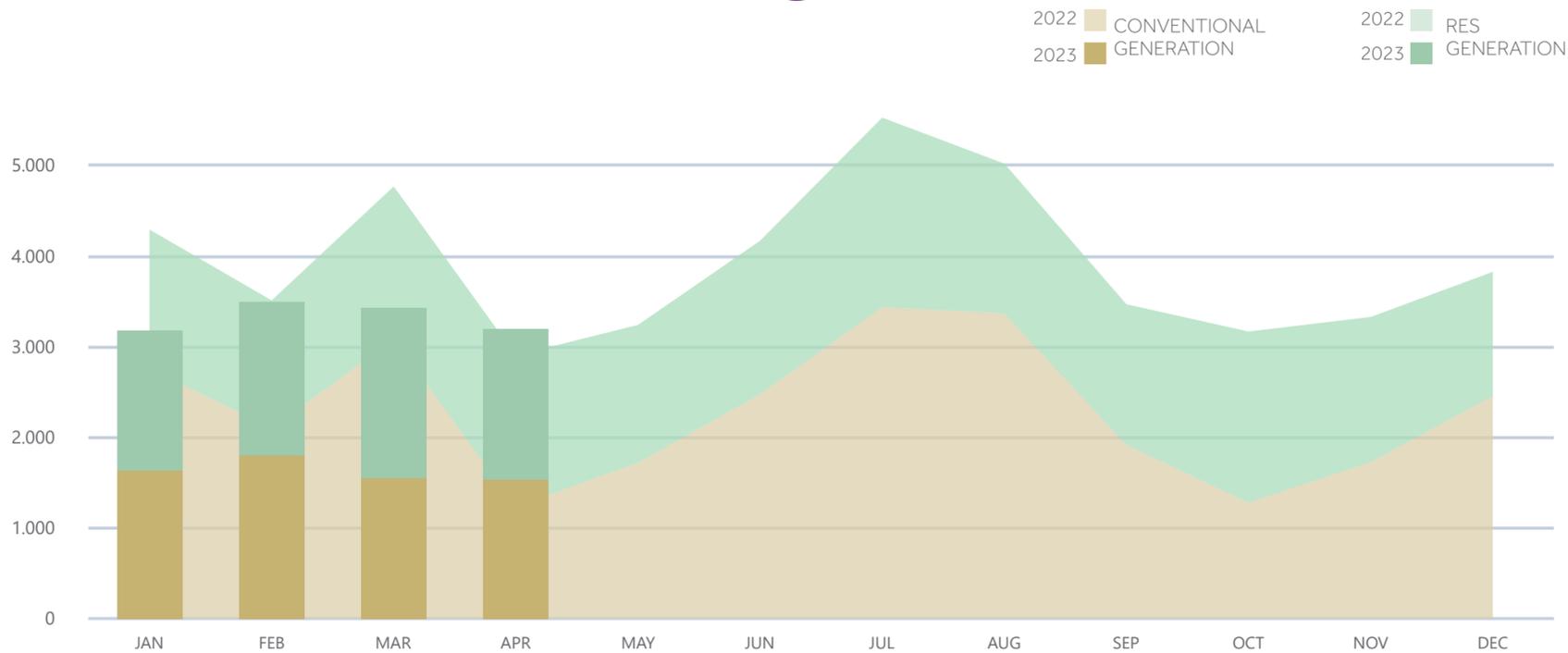


### Notes

- 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



## Total Net Generation

**3.205** GWh

↑ **10,34%** Variation in comparison to the same month of the previous year



Thermal Generation

**42,92%**



Hydro Generation

**5,48%**



RES Generation

**51,60%**

## VARIATION OF NET GENERATION (GWh) April 2022 - April 2023



### 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.

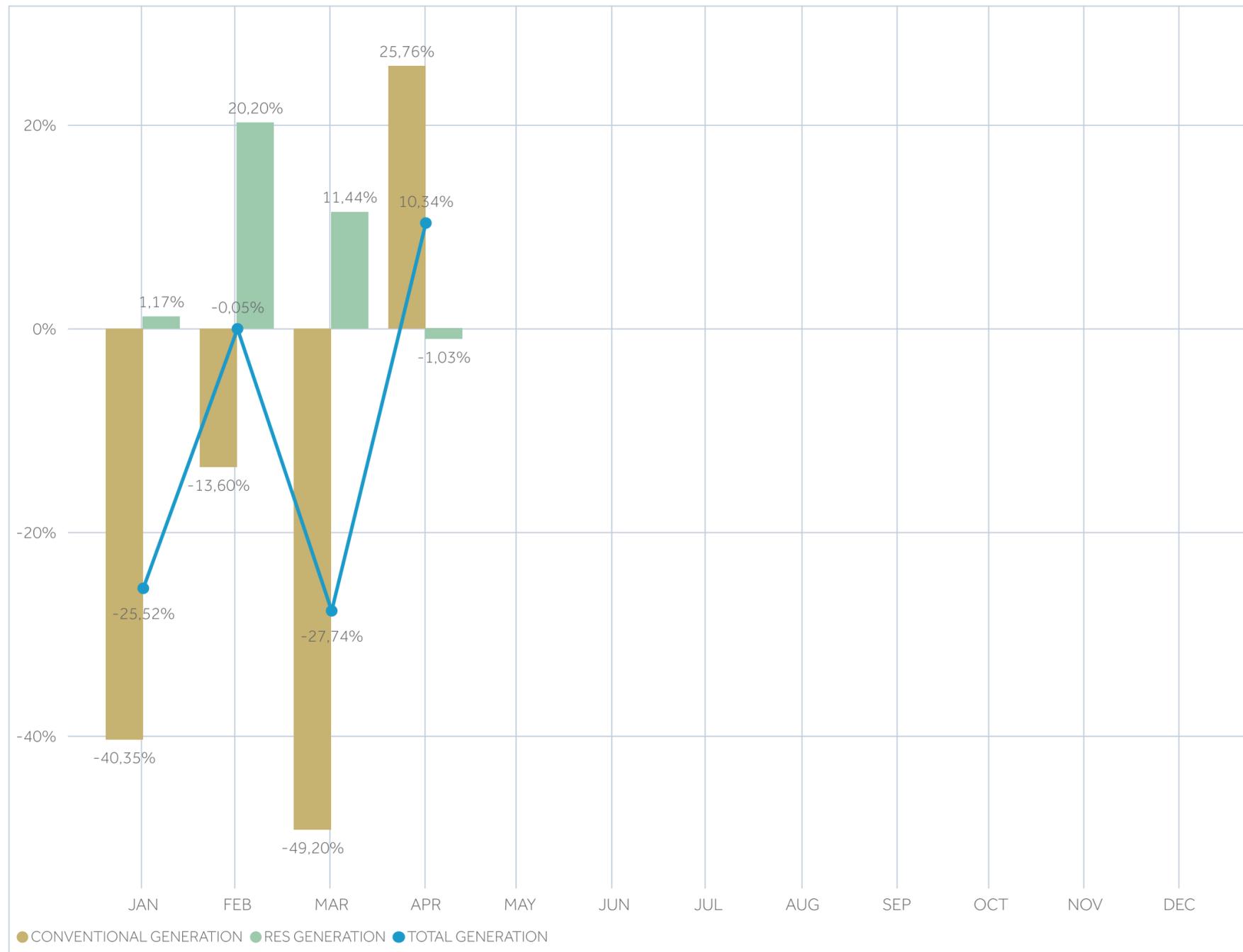
Conventional Generation includes the generation of large scale hydro units, as well as the generation of dispatchable co-generation units that has not been characterised as high efficiency Co-Generation.

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.

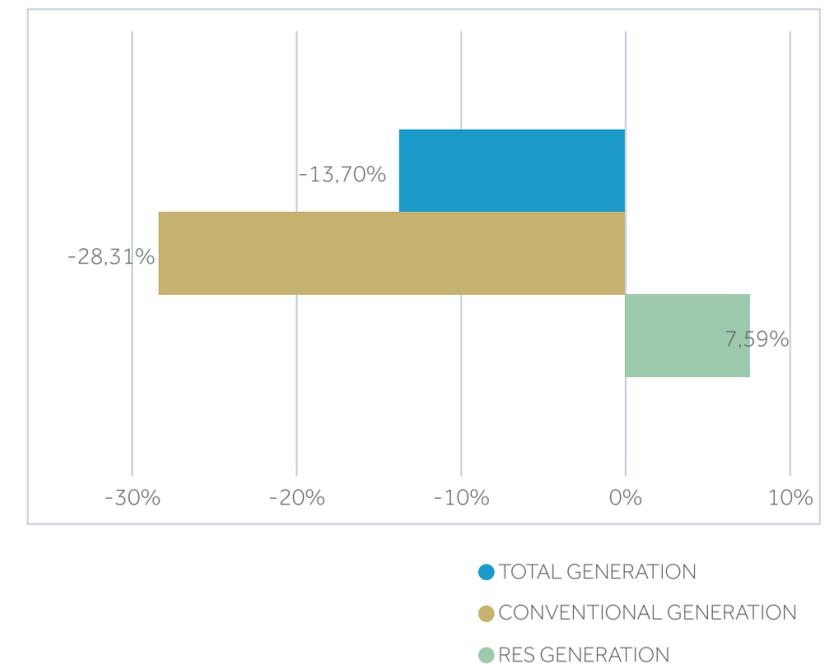
# Variation of Generation in comparison to the previous year

## 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.

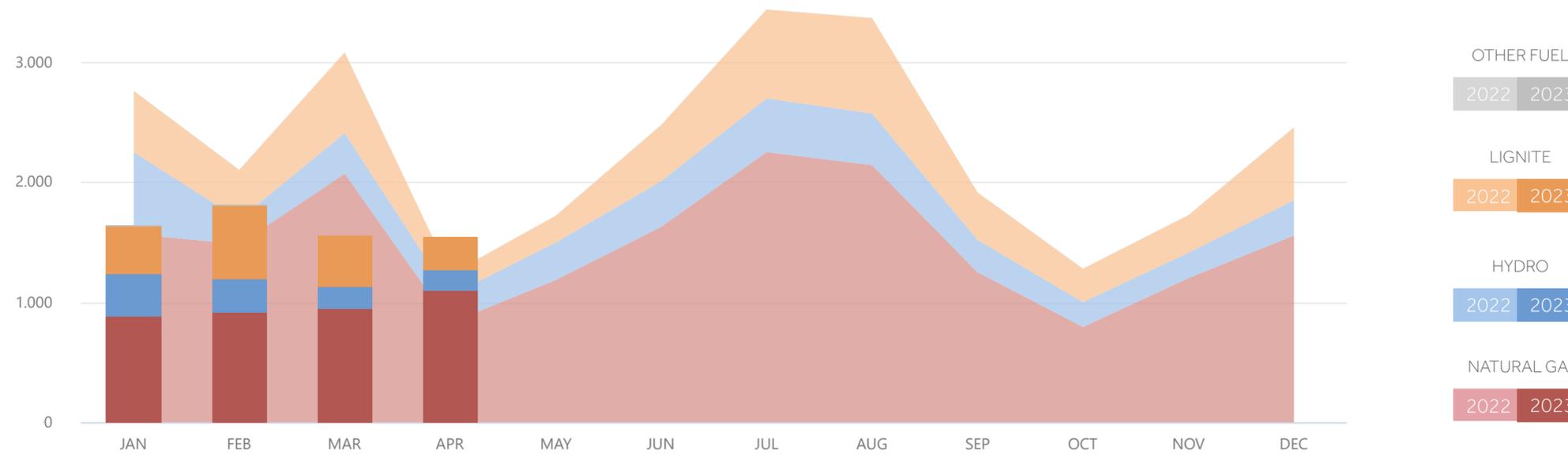
Conventional Generation includes the generation of large scale hydro units, as well as the generation of dispatchable co-generation units that has not been characterised as high efficiency Co-Generation.

RES Generation includes

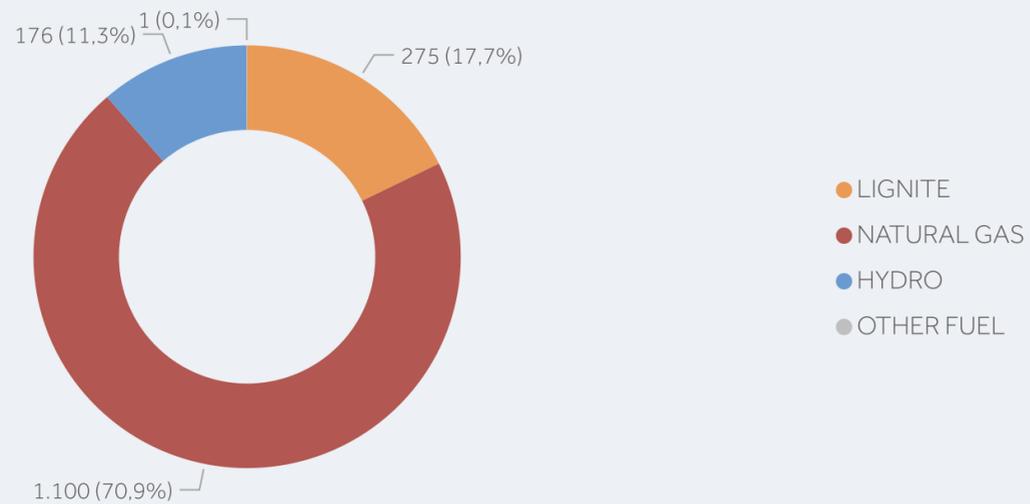
- generation in the point of injection to the System from RES generation connected directly to System substations (System RES)
- generation from dispatchable co-generation units that has been characterised as high efficiency Co-Generation (System RES)
- estimation of generation in the Distribution Network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

# Conventional Generation Mix

EVOLUTION OF CONVENTIONAL GENERATION MIX (GWh) Annex 2.2



CONVENTIONAL GENERATION MIX PER FUEL CATEGORY (GWh) April 2023



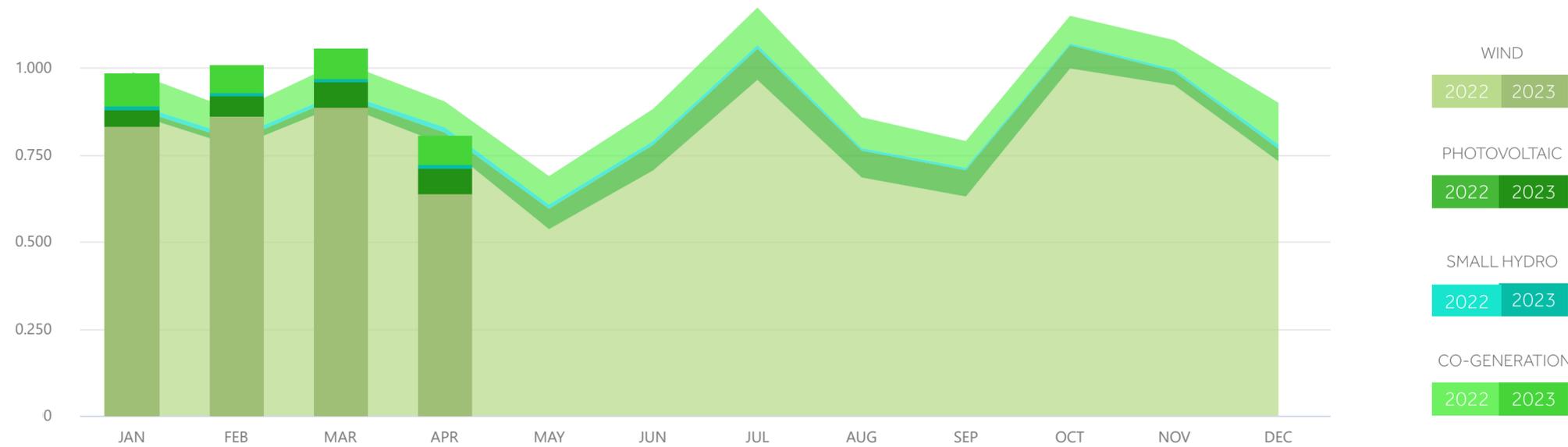
### Notes

- 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.

# System RES Generation Mix

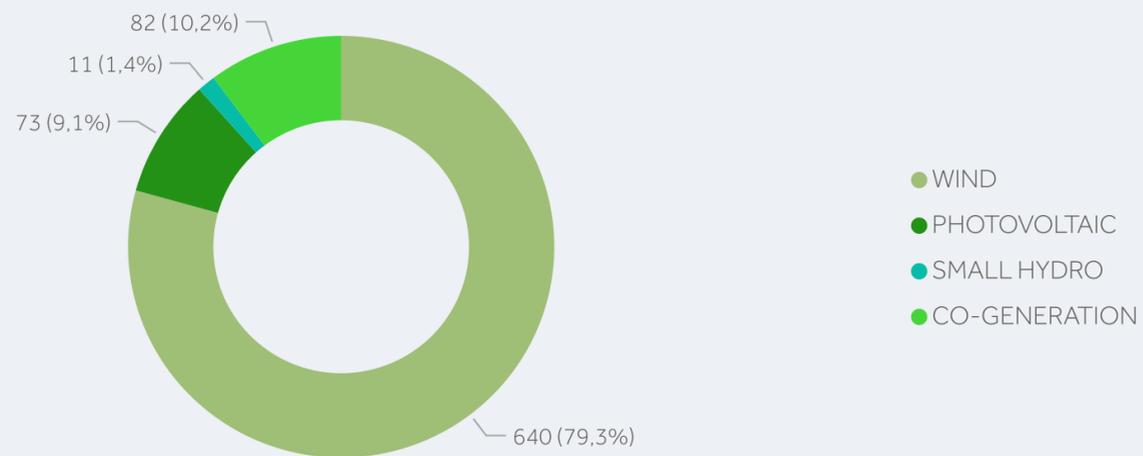
## EVOLUTION OF SYSTEM RES GENERATION MIX (GWh)

Annex 2.3



## SYSTEM RES GENERATION MIX PER RES TECHNOLOGY (GWh)

April 2023



### Notes

RES Generation includes:

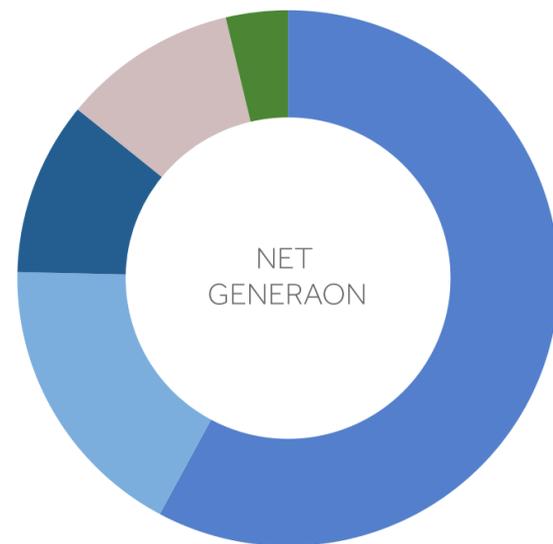
- generation in the point of injection to the System from RES generation connected directly to System substations (System RES)
- generation from dispatchable co-generation units that has been characterised as high efficiency Co-Generation (System RES)

# Conventional Generation per Producer

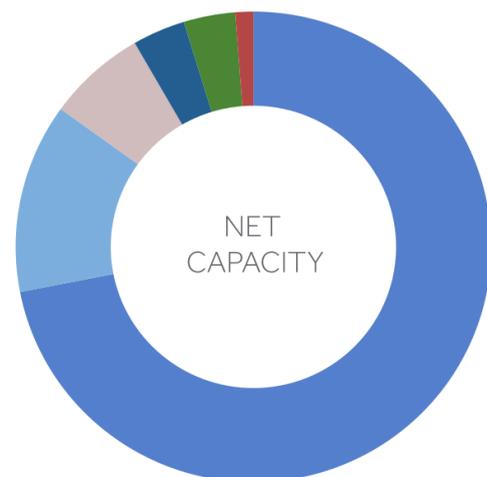
## NET CAPACITY (MW) - NET GENERATION (GWh)

April 2023

Annex 2.4



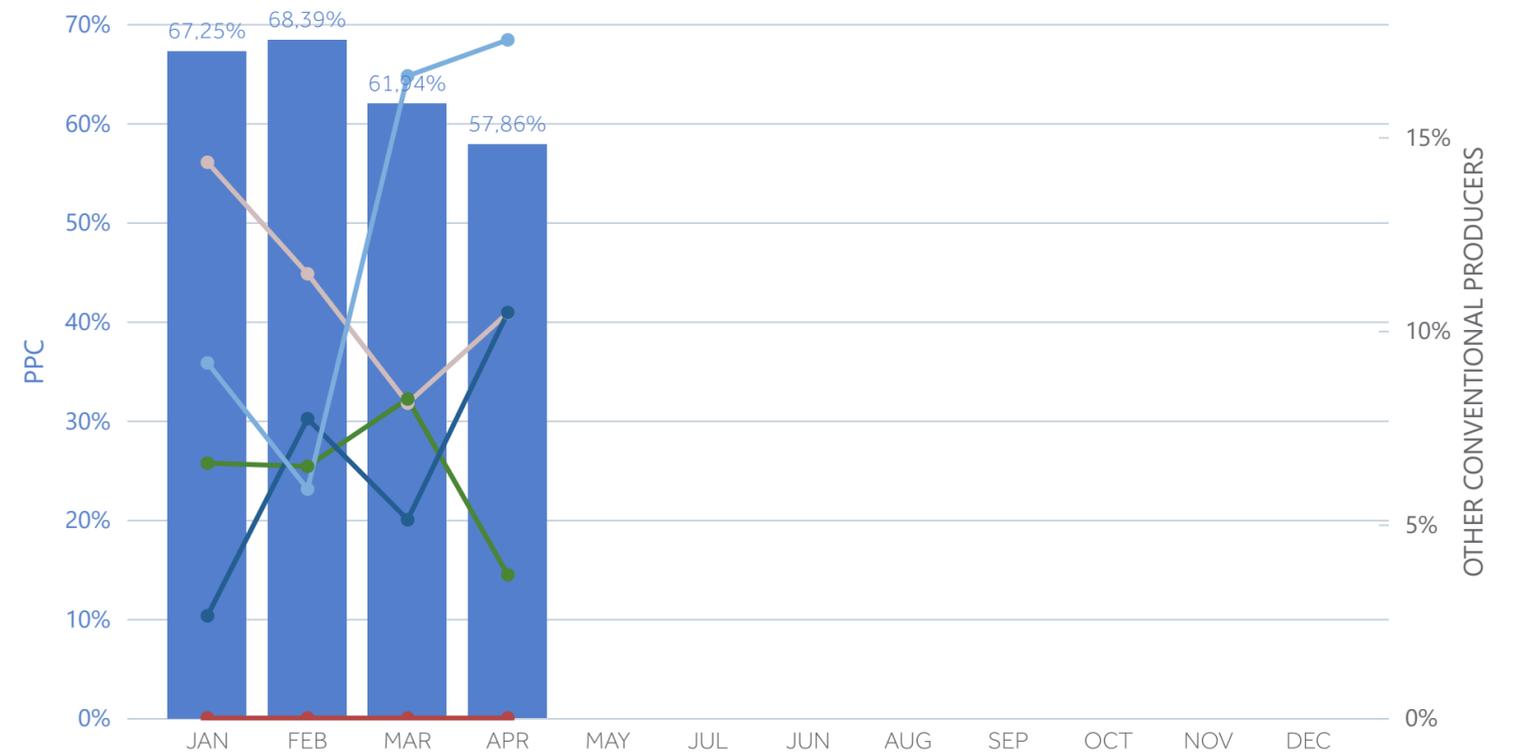
GWh	%	PRODUCER
934,68	57,86%	PPC
282,79	17,51%	MYTILINEOS
169,19	10,47%	KORINTHOS POWER
169,00	10,46%	ELPEDISON
59,76	3,70%	HERON 2 VIOTIAS
0,01	0,00%	HERON



MW	%	PRODUCER
8.674,86	71,92%	PPC
1.572,70	13,04%	MYTILINEOS
810,18	6,72%	ELPEDISON
433,46	3,59%	KORINTHOS POWER
422,14	3,50%	HERON 2 VIOTIAS
147,76	1,23%	HERON

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

Annex 2.5



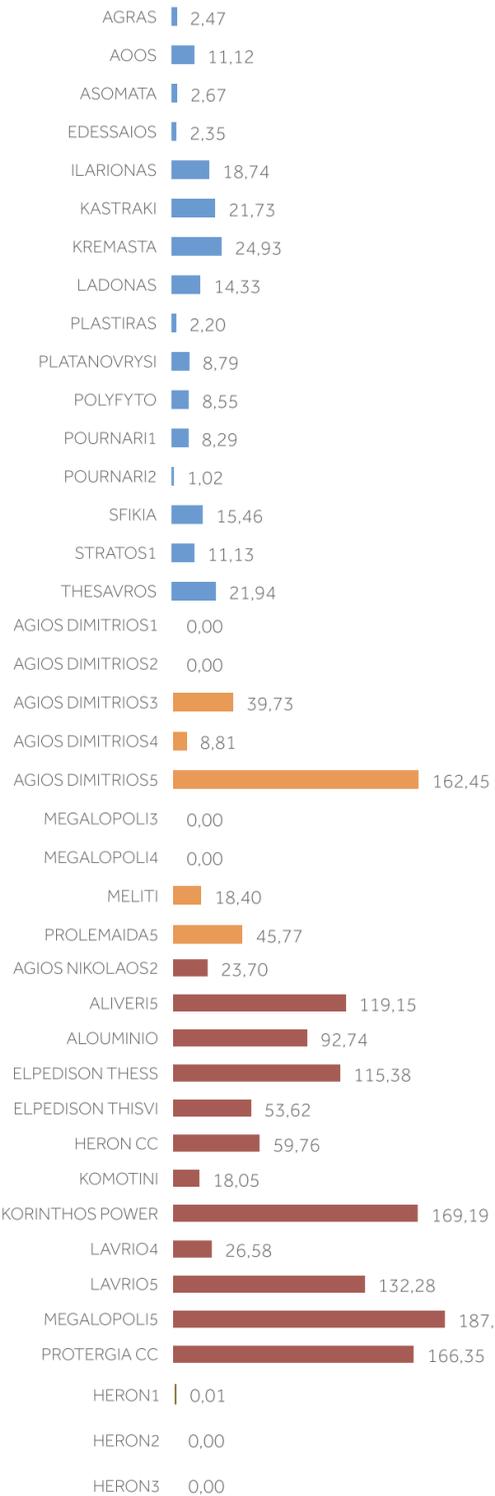
### Notes

- 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.

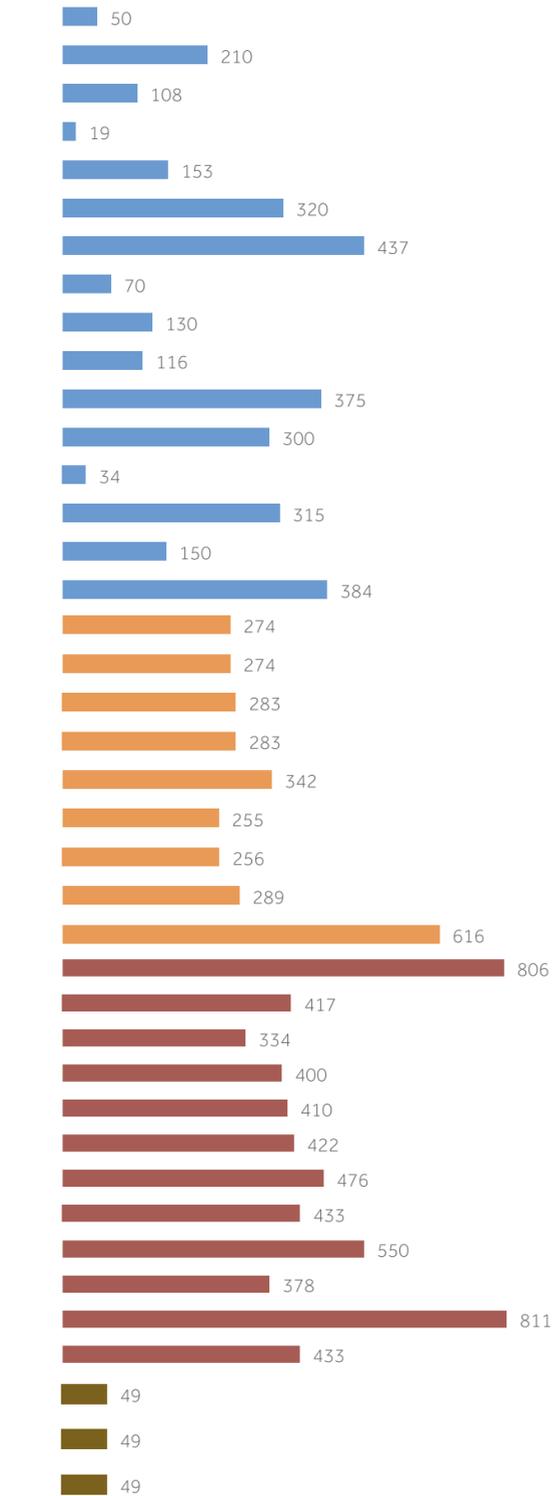
# Net Generation - Net Capacity by Dispatchable Generation Units in the System

Annex 2.6

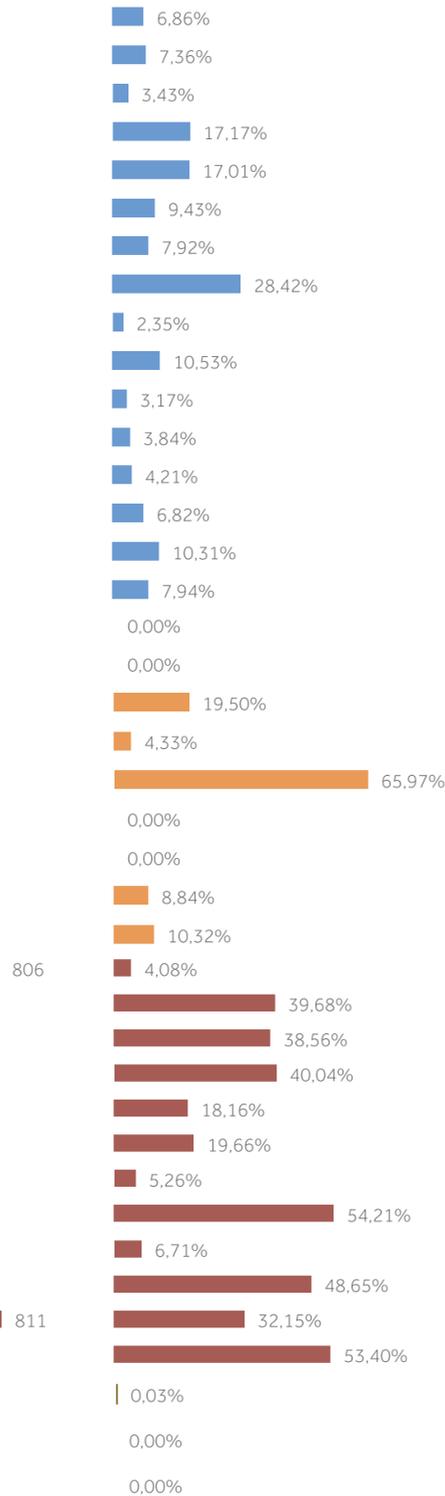
## NET GENERATION (GWh)



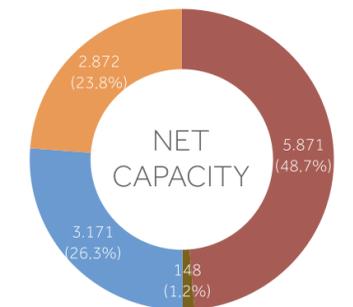
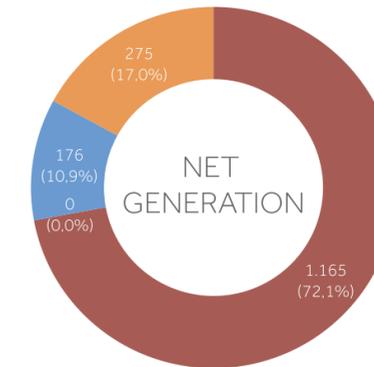
## NET CAPACITY (MW)



## UTILISATION COEFFICIENT (%)



	Net Capacity (MW)	Net Production (GWh)	Utilisation Coefficient (%)
N.G. Open Cycle	148	0,01	0,0%
Hydro	3.171	176	7,7%
Lignite	2.872	275	13,3%
N.G. Combined Cycle	5.871	1.165	27,6%
	<b>12.061</b>	<b>1.615</b>	<b>18,6%</b>



### Notes

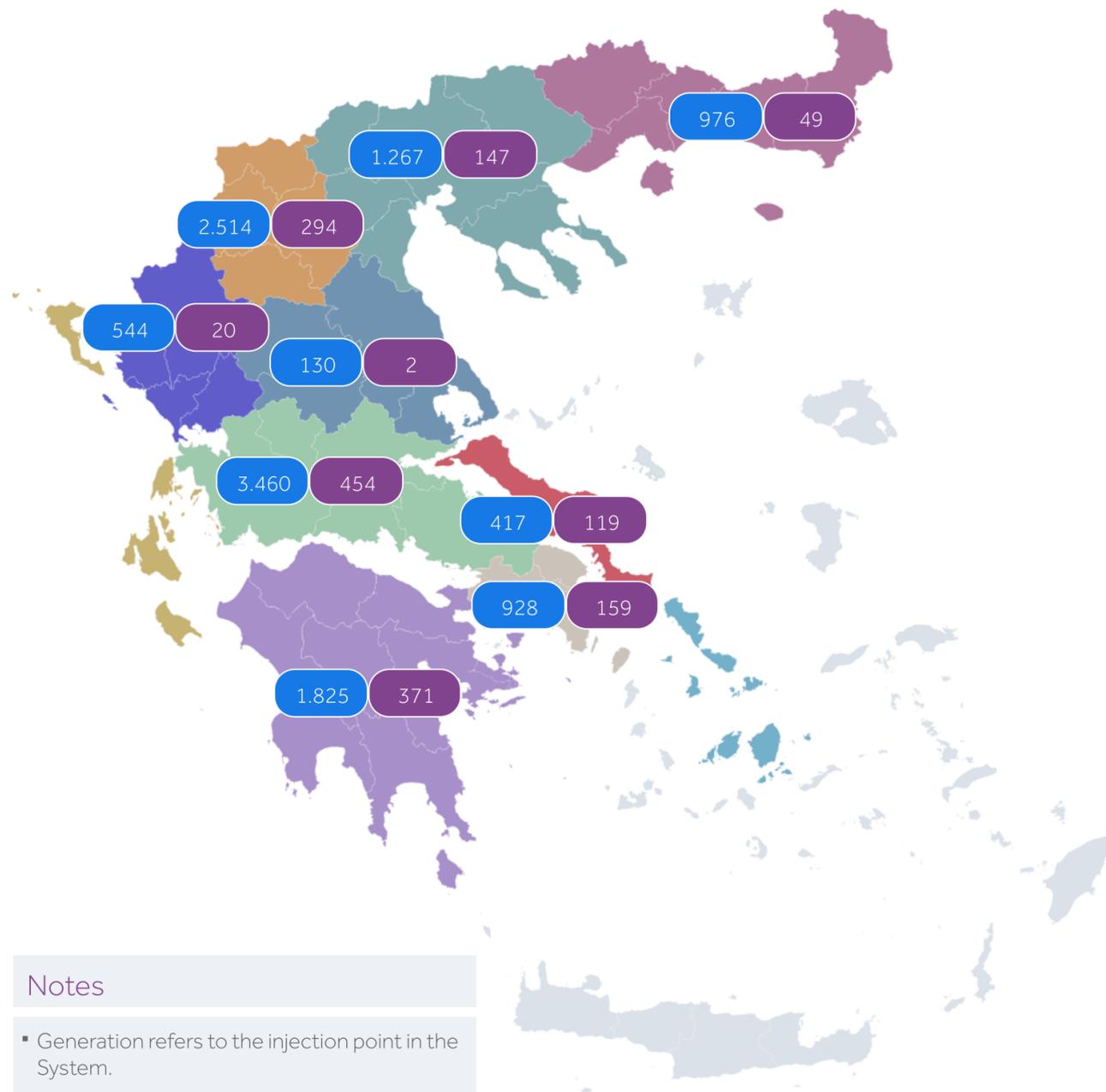
- Generation refers to the injection point in the System.
- Generation by dispatchable co-generation units that has not been characterised as high efficiency Co-Generation is the total generation (conventional and Co-Generation).
- Utilisation coefficient is the ratio of the monthly electricity generation to the maximum possible electricity generation during this period.
- The generation units Agios Nikolaos2 and Ptolemaida5 are in trial phase. Their Net Capacity shall be precisely determined following the completion of the trial phase.

# Geographical Distribution of Conventional Generation

Annex 2.7

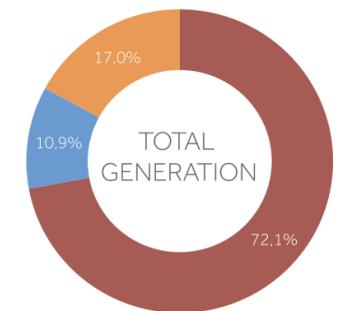
## GEOGRAPHICAL DISTRIBUTION OF CONVENTIONAL GENERATION

NET CAPACITY (MW) | NET GENERATION (GWh)

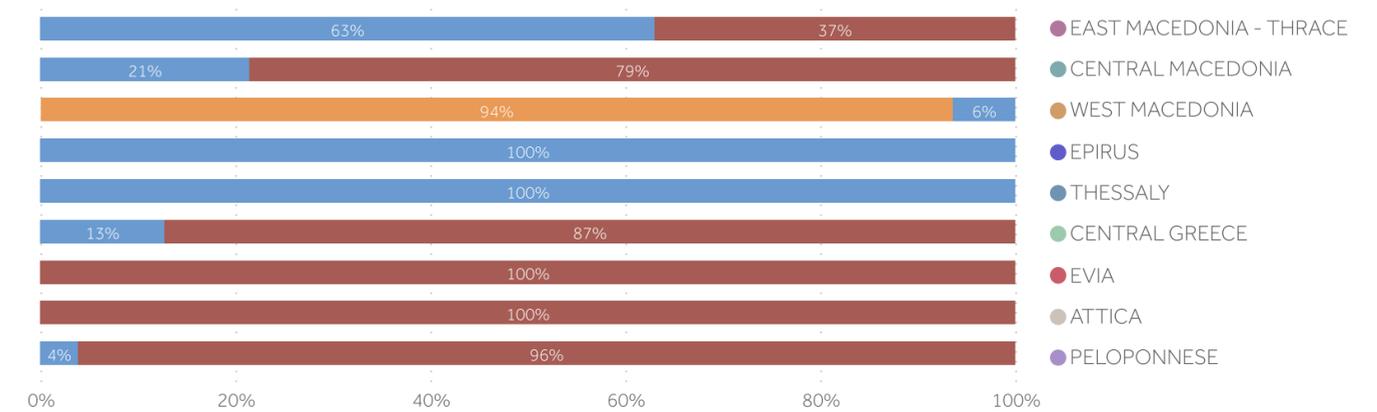


## ENERGY MIX OF CONVENTIONAL GENERATION

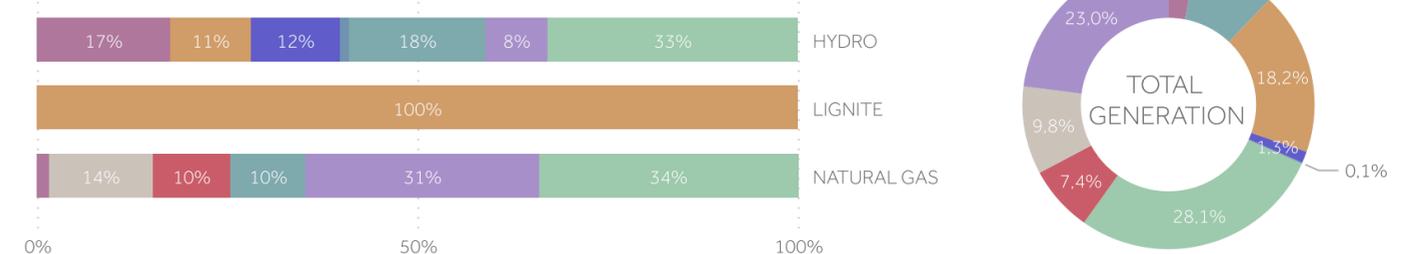
	(MW)	%	(GWh)	%	
	3.171	26,3%	175,7	10,9%	HYDRO
	2.872	23,8%	275,2	17,0%	LIGNITE
	6.018	49,9%	1.164...	72,1%	NATURAL GAS
<b>Total</b>	<b>12.061</b>		<b>1.615,4</b>		



### per geographical area (%)



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



**Notes**

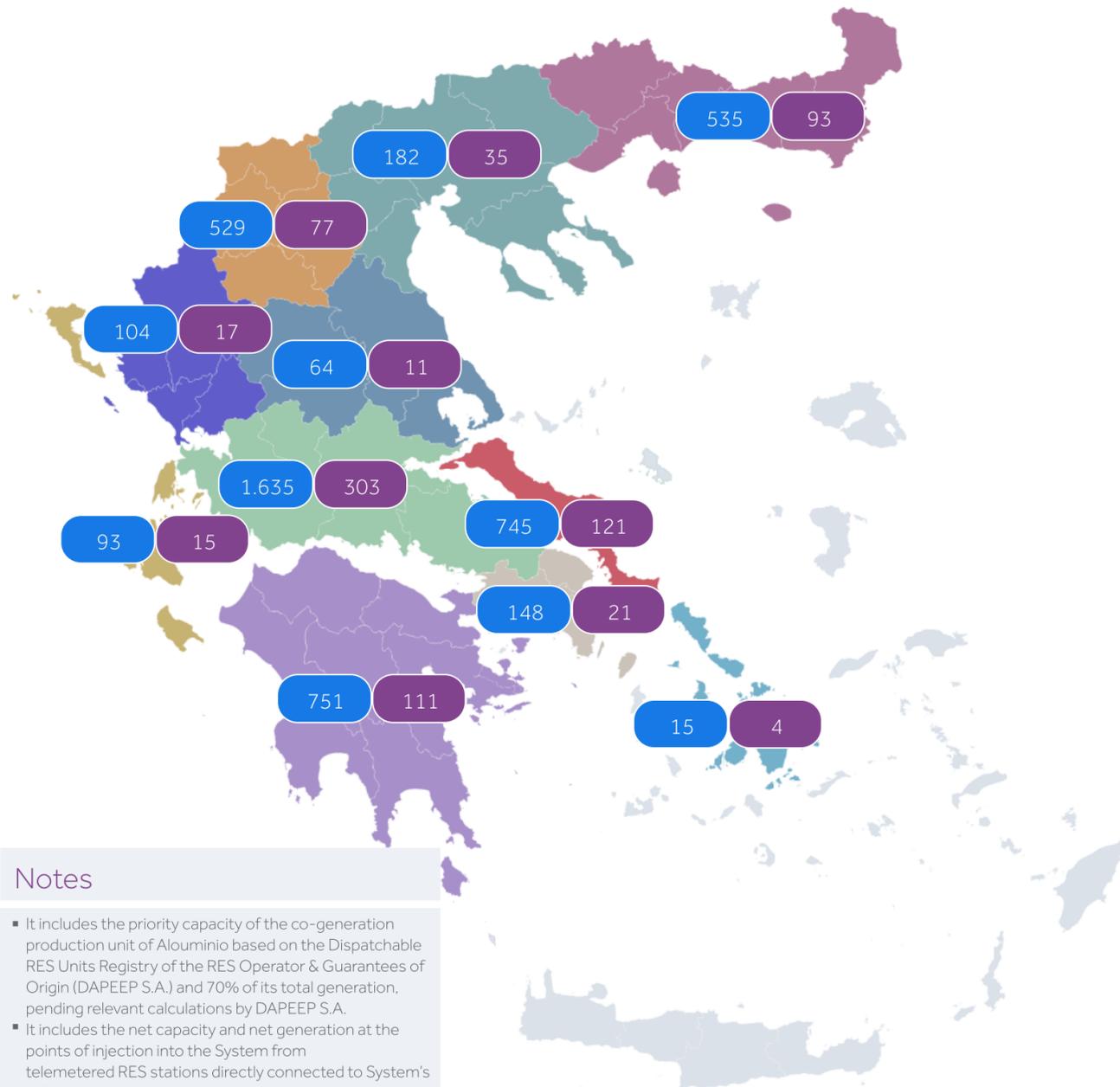
- Generation refers to the injection point in the System.
- Generation by dispatchable co-generation units that has not been characterised as high efficiency Co-Generation, is the total generation (conventional and Co-Generation).

# Geographical Distribution of System RES Generation

Annex 2.8

## GEOGRAPHICAL DISTRIBUTION OF SYSTEM RES GENERATION

NET CAPACITY (MW) | NET GENERATION (GWh)

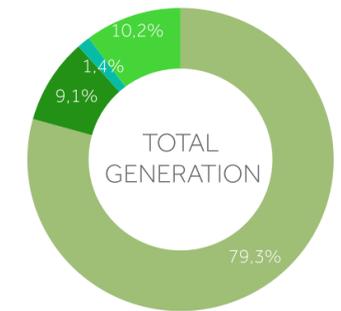


**Notes**

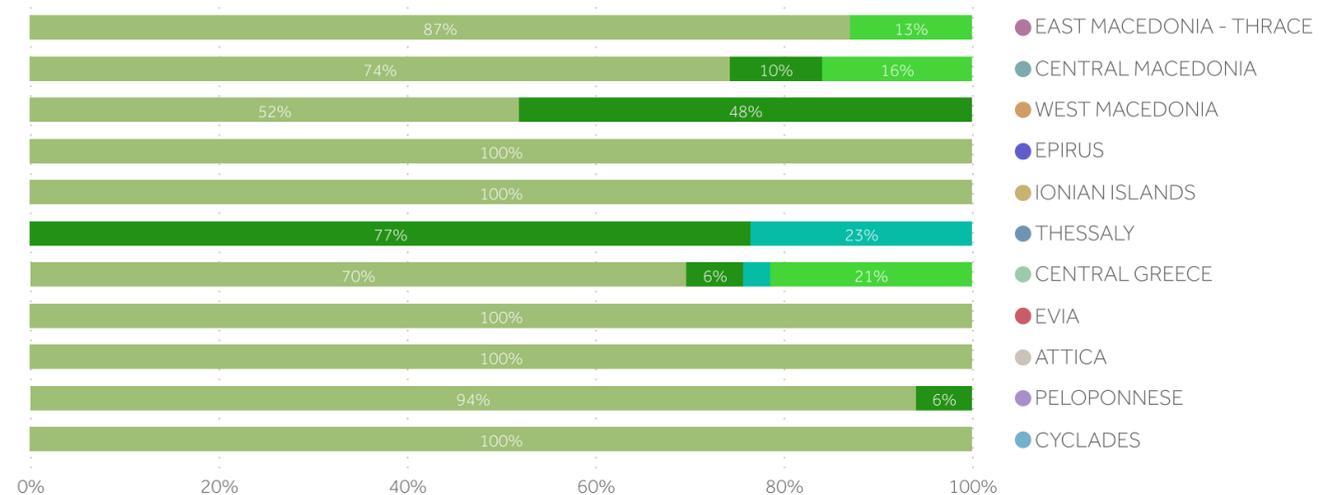
- It includes the priority capacity of the co-generation production unit of Alouminio based on the Dispatchable RES Units Registry of the RES Operator & Guarantees of Origin (DAPEEP S.A.) and 70% of its total generation, pending relevant calculations by DAPEEP S.A.
- It includes the net capacity and 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.

## ENERGY MIX OF SYSTEM RES GENERATION

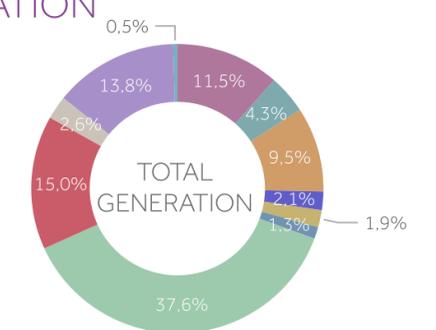
	(MW)	%	(GWh)	%	
	4.074	84,8%	639,9	79,3%	WIND
	522	10,9%	73,4	9,1%	PHOTOVOLTAIC
	40	0,8%	11,1	1,4%	SMALL HYDRO
	167	3,5%	82,5	10,2%	CO-GENERATION
<b>Total</b>	<b>4.803</b>		<b>806,8</b>		



### 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

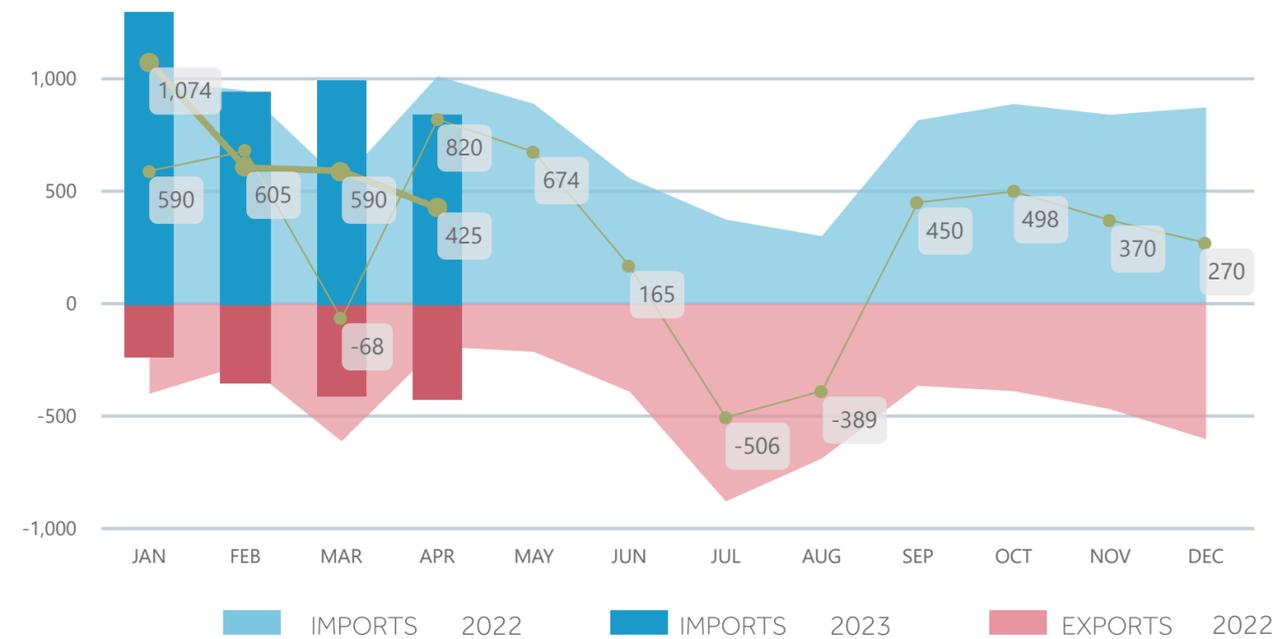


## PHYSICAL ENERGY FLOWS<sup>2</sup> (GWh)

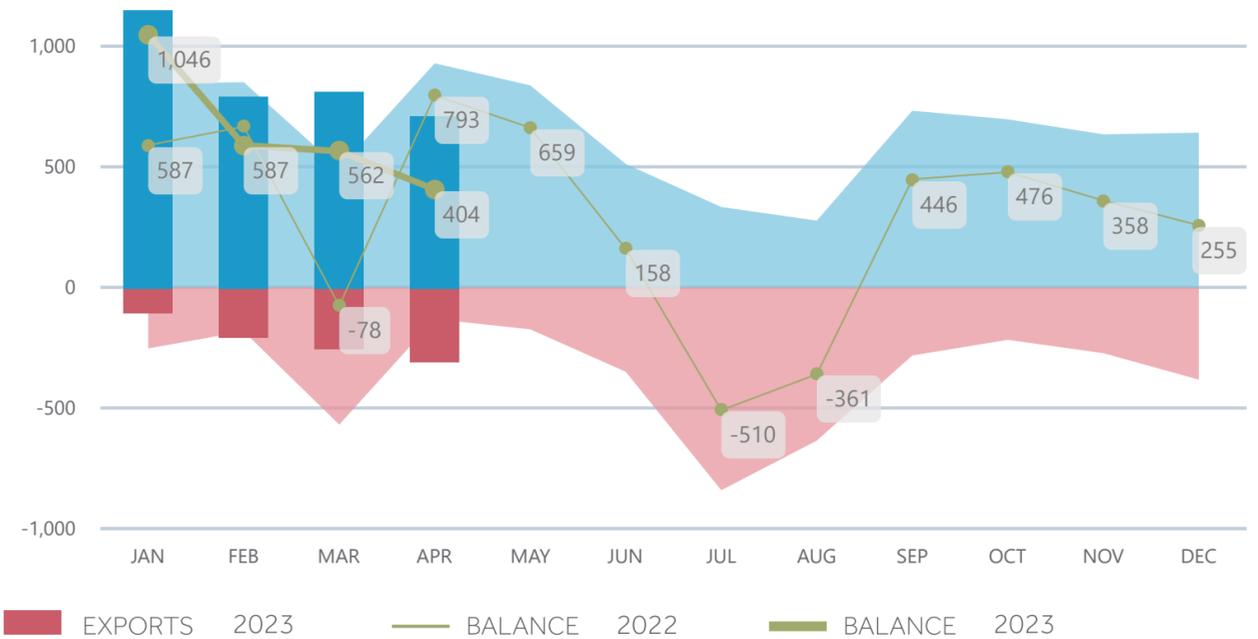
Variation in comparison to the same month of the previous year



### EVOLUTION OF COMMERCIAL PROGRAMS (GWh) [Annex 3.1](#)



### EVOLUTION OF PHYSICAL ENERGY FLOWS (GWh) [Annex 3.2](#)



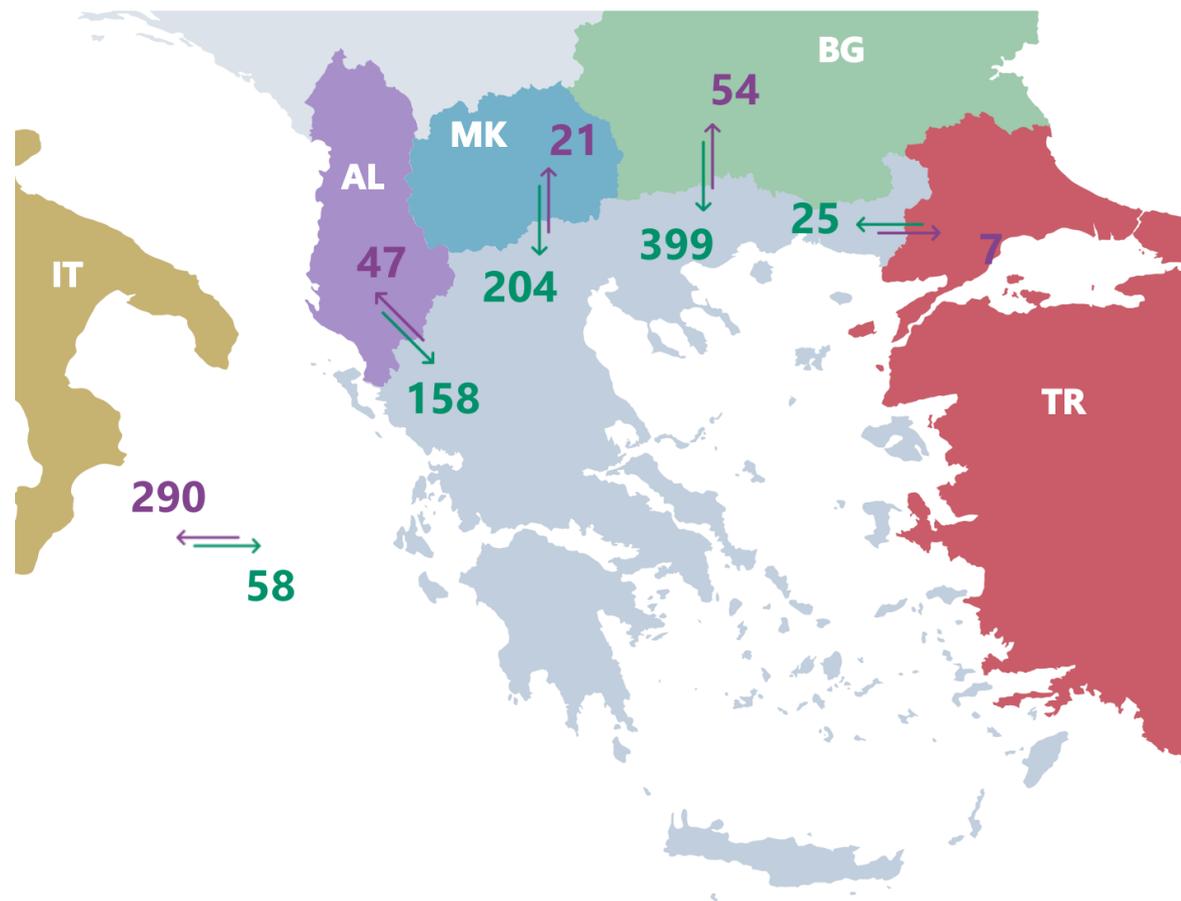
#### Notes

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

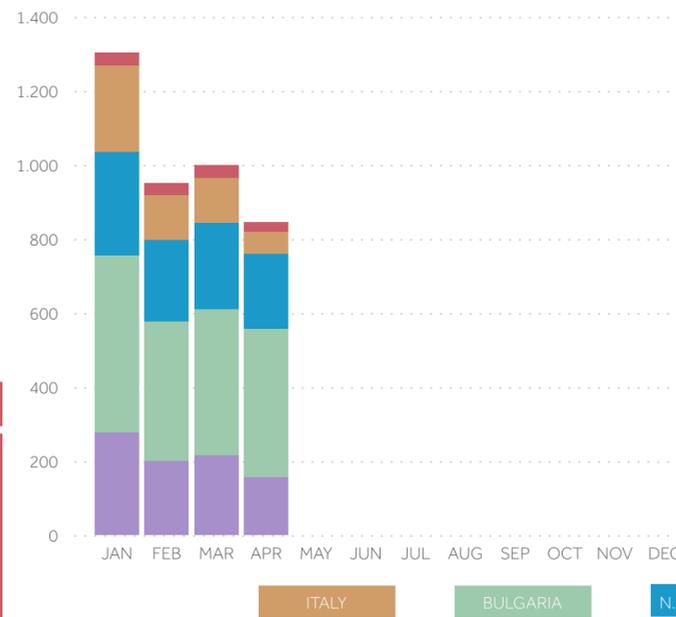
**425** GWh  $\downarrow$  **394** GWh  
Variation in comparison to the same month of the previous year



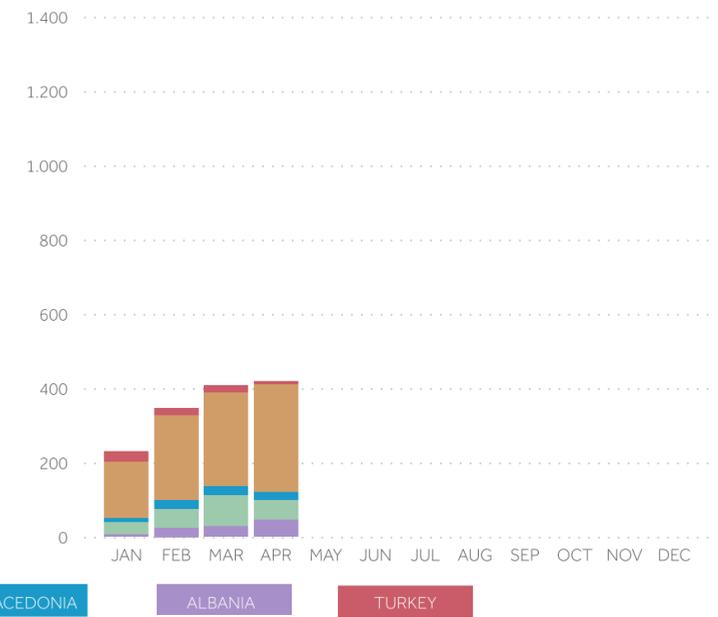
## COMMERCIAL PROGRAMS PER INTERCONNECTION

Annex 3.3-3.4

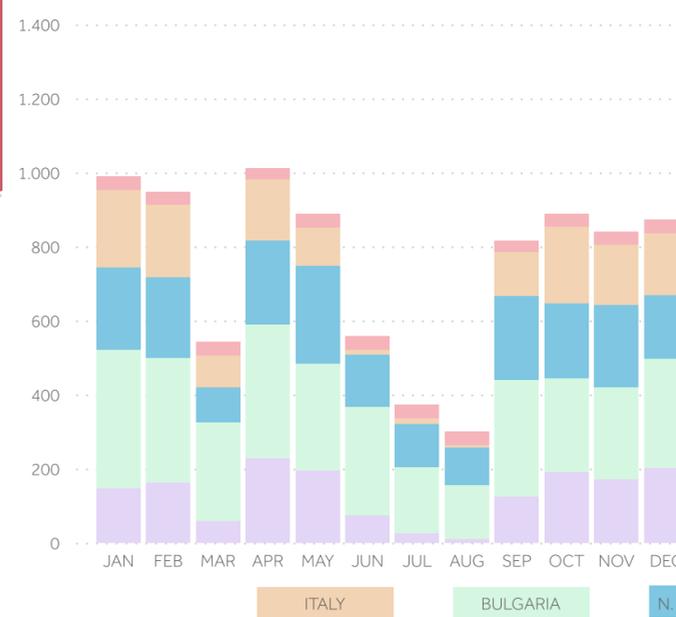
### IMPORTS 2023



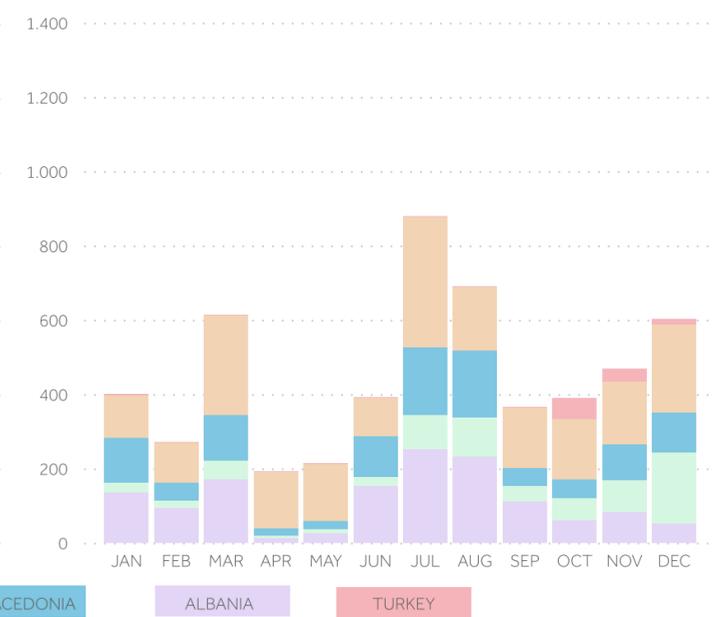
### EXPORTS 2023



### IMPORTS 2022



### EXPORTS 2022



# 1.1 Demand by Consumption Category (GWh)

## 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	3.522,907	544,040	597,001	26,369	17,832	6,697	135,586	30,709	4.881,141	4.337,101
FEB	2.931,616	532,601	520,613	23,269	18,557	13,968	113,462	22,426	4.176,513	3.643,912
MAR	3.217,662	670,517	593,668	27,033	16,131	12,167	132,691	21,882	4.691,750	4.021,234
APR	2.157,966	766,852	560,247	23,923	26,073	28,787	97,459	36,490	3.697,796	2.930,944
MAY	2.264,009	831,875	577,749	23,283	23,583	18,456	93,174	68,731	3.900,859	3.068,984
JUN	2.739,918	812,167	548,122	21,373	19,846	16,530	112,667	58,238	4.328,862	3.516,695
JUL	3.342,341	917,507	554,781	22,296	14,252	13,214	135,301	19,791	5.019,483	4.101,976
AUG	3.169,611	796,824	500,401	21,989	13,506	12,797	114,555	31,574	4.661,257	3.864,433
SEP	2.425,317	764,063	551,629	19,329	23,186	15,884	95,750	20,704	3.915,862	3.151,798
OCT	2.149,024	736,287	569,862	19,788	28,087	27,245	94,576	19,194	3.644,063	2.907,776
NOV	2.409,717	521,601	568,989	19,337	23,396	20,627	95,852	28,176	3.687,695	3.166,095
DEC	2.852,145	468,437	563,120	22,512	27,540	20,216	105,848	22,819	4.082,636	3.614,199
	<b>33.182,232</b>	<b>8.362,771</b>	<b>6.706,183</b>	<b>270,503</b>	<b>251,987</b>	<b>206,587</b>	<b>1.326,921</b>	<b>380,734</b>	<b>50.687,917</b>	<b>42.325,146</b>

## 2023

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	2.902,052	565,229	550,495	24,286	27,310	32,018	100,456	42,472	4.244,319	3.679,090
FEB	2.696,452	679,618	506,423	22,263	28,083	18,033	92,667	53,958	4.097,496	3.417,879
MAR	2.397,335	820,246	563,466	21,758	36,474	35,445	82,891	51,361	4.008,976	3.188,729
APR	2.015,265	845,941	524,520	20,053	35,105	33,454	77,944	56,790	3.609,071	2.763,131
MAY										
JUN										
JUL										
AUG										
SEP										
OCT										
NOV										
DEC										
	<b>10.011,104</b>	<b>2.911,034</b>	<b>2.144,904</b>	<b>88,360</b>	<b>126,972</b>	<b>118,950</b>	<b>353,958</b>	<b>204,581</b>	<b>15.959,862</b>	<b>13.048,828</b>

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

### 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	9.223	24/01/2022	12:00	4.057	02/01/2022	5:00
FEB	8.311	03/02/2022	20:00	4.212	21/02/2022	5:00
MAR	8.467	10/03/2022	14:00	4.173	28/03/2022	5:00
APR	6.980	18/04/2022	21:00	3.295	25/04/2022	5:00
MAY	7.220	27/05/2022	13:00	3.626	02/05/2022	7:00
JUN	8.668	23/06/2022	14:00	3.988	12/06/2022	7:00
JUL	9.512	28/07/2022	14:00	4.324	11/07/2022	5:00
AUG	8.635	01/08/2022	14:00	4.168	15/08/2022	7:00
SEP	7.574	01/09/2022	14:00	3.741	26/09/2022	4:00
OCT	6.230	01/10/2022	14:00	3.532	31/10/2022	4:00
NOV	7.382	30/11/2022	13:00	3.555	07/11/2022	3:00
DEC	7.186	22/12/2022	20:00	3.754	26/12/2022	6:00

### 2023

MONTH	MAXIMUM TOTAL DEMAND	MAXIMUM TOTAL DEMAND DATE	MAXIMUM TOTAL DEMAND TIME	MINIMUM TOTAL DEMAND	MINIMUM TOTAL DEMAND DATE	MINIMUM TOTAL DEMAND TIME
JAN	7.923	31/01/2023	20:00	3.734	01/01/2023	6:00
FEB	8.673	07/02/2023	13:00	3.722	28/02/2023	5:00
MAR	7.453	17/03/2023	14:00	3.756	27/03/2023	5:00
APR	6.632	06/04/2023	21:00	3.370	17/04/2023	5:00
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						

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

### 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	5.792	25/10/2022	20:00	1.846	30/10/2022	12:00
NOV	6.937	29/11/2022	20:00	2.662	01/11/2022	12:00
DEC	7.012	22/12/2022	20:00	2.240	25/12/2022	15:00

### 2023

MONTH	MAXIMUM SYSTEM DEMAND	MAXIMUM SYSTEM DEMAND DATE	MAXIMUM SYSTEM DEMAND TIME	MINIMUM SYSTEM DEMAND	MINIMUM SYSTEM DEMAND DATE	MINIMUM SYSTEM DEMAND TIME
JAN	7.515	31/01/2023	20:00	2.629	01/01/2023	15:00
FEB	8.226	09/02/2023	20:00	2.181	27/02/2023	15:00
MAR	6.655	17/03/2023	20:00	1.080	26/03/2023	15:00
APR	6.328	06/04/2023	21:00	1.216	15/04/2023	14:00
MAY						
JUN						
JUL						
AUG						
SEP						
OCT						
NOV						
DEC						

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

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

#### 2022

#### 2023

#### Date of Maximum 06/04/2023

#### Date of Minimum 17/04/2023

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

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	4.239	4.505
2	3.922	4.186
3	3.799	4.061
4	3.728	3.990
5	3.720	3.987
6	3.835	4.103
7	4.140	4.409
8	4.524	4.951
9	4.432	5.462
10	4.010	5.823
11	3.477	5.964
12	3.090	6.045
13	2.988	6.159
14	3.030	6.186
15	2.968	5.981
16	3.100	5.830
17	3.314	5.600
18	3.707	5.400
19	4.403	5.391
20	5.144	5.573
21	5.757	6.038
22	5.700	5.978
23	5.205	5.481
24	4.757	5.028

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	4.563	4.816
2	4.179	4.429
3	4.119	4.366
4	4.126	4.378
5	4.112	4.367
6	4.221	4.481
7	4.431	4.696
8	4.954	5.276
9	5.126	5.777
10	4.778	6.103
11	4.223	6.176
12	3.953	6.206
13	3.737	6.261
14	3.658	6.336
15	3.494	6.150
16	3.579	5.994
17	3.990	5.841
18	4.458	5.731
19	5.062	5.827
20	5.693	6.098
21	6.328	6.632
22	6.161	6.463
23	5.619	5.904
24	5.138	5.425

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	3.596	3.849
2	3.358	3.596
3	3.232	3.479
4	3.146	3.400
5	3.123	3.370
6	3.156	3.399
7	3.233	3.447
8	3.172	3.515
9	3.091	3.806
10	3.135	4.178
11	3.144	4.522
12	2.850	4.689
13	2.599	4.757
14	2.262	4.696
15	2.163	4.407
16	2.211	4.261
17	2.334	4.138
18	2.734	4.113
19	3.378	4.232
20	4.129	4.481
21	4.763	4.975
22	4.848	5.052
23	4.552	4.751
24	4.226	4.423

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

LOAD REPRESENTATIVE	2023-01	2023-02	2023-03	2023-04	TOTAL
PPC	2.453,9	2.457,2	2.368,5	2.080,3	<b>9.360,0</b>
MYTILINEOS	431,2	295,1	287,0	256,8	<b>1.270,0</b>
HERON	285,6	283,1	283,4	256,6	<b>1.108,8</b>
ELPEDISON	248,0	235,0	238,1	209,0	<b>930,2</b>
NRG	188,1	192,7	193,3	168,6	<b>742,7</b>
ATTIKI GSC	110,1	113,2	115,4	103,0	<b>441,8</b>
WATT AND VOLT	84,7	82,4	106,4	157,1	<b>430,6</b>
ZENITH	89,0	87,2	81,6	72,5	<b>330,3</b>
VOLTERRA	74,6	74,6	80,5	70,0	<b>299,8</b>
VOLTON	40,1	37,9	33,8	27,9	<b>139,8</b>
PPC_USP	38,1	37,9	34,2	29,1	<b>139,3</b>
KEN	21,2	20,2	17,5	14,4	<b>73,2</b>
VIENER	6,5	6,0	7,1	5,7	<b>25,2</b>
ELINOIL	6,8	6,3	6,5	5,4	<b>25,0</b>
EUNICE TRAD	5,2	5,2	5,5	5,2	<b>21,1</b>
ELTA	6,1	5,6	5,0	3,7	<b>20,4</b>
MYTILINEOS_USP	2,1	2,0	1,8	1,5	<b>7,5</b>
OTE	2,0	1,9	1,9	1,7	<b>7,5</b>
ELPEDISON_USP	1,9	1,9	1,7	1,5	<b>6,9</b>
HERON_USP	1,6	1,6	1,4	1,2	<b>5,8</b>
SOLAR ENERGY	1,1	1,1	1,2	1,2	<b>4,7</b>
NRG_USP	1,2	1,2	1,1	0,9	<b>4,4</b>
MARKOU	0,6	0,5	0,7	0,2	<b>2,0</b>
KOR_POWER	0,8	0,3	0,6	0,2	<b>1,9</b>
HERON2_V	0,6	0,4	0,5	0,3	<b>1,8</b>
VIOLAR	0,3	0,2	0,1	0,1	<b>0,7</b>
<b>TOTAL</b>	<b>4.101,4</b>	<b>3.950,9</b>	<b>3.874,7</b>	<b>3.474,3</b>	<b>15.401,3</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	434,05	70,79%	267,12	35,13%	1.379,17	65,65%	2.080,33	59,88%
MYTILINEOS	4,48	0,73%	122,22	16,07%	130,08	6,19%	256,78	7,39%
HERON	13,19	2,15%	112,31	14,77%	131,16	6,24%	256,65	7,39%
ELPEDISON	63,36	10,33%	51,88	6,82%	93,77	4,46%	209,01	6,02%
NRG	3,70	0,60%	69,88	9,19%	95,03	4,52%	168,60	4,85%
WATT AND VOLT	93,54	15,26%	5,93	0,78%	57,60	2,74%	157,07	4,52%
ATTIKI GSC	0,00	0,00%	54,31	7,14%	48,69	2,32%	102,99	2,96%
ZENITH	0,00	0,00%	3,29	0,43%	69,17	3,29%	72,47	2,09%
VOLTERRA	0,26	0,04%	52,68	6,93%	17,10	0,81%	70,03	2,02%
PPC_USP	0,00	0,00%	0,00	0,00%	29,07	1,38%	29,07	0,84%
VOLTON	0,00	0,00%	4,01	0,53%	23,90	1,14%	27,92	0,80%
KEN	0,00	0,00%	1,77	0,23%	12,66	0,60%	14,42	0,42%
VIENER	0,00	0,00%	5,68	0,75%	0,00	0,00%	5,68	0,16%
ELINOIL	0,00	0,00%	3,45	0,45%	1,95	0,09%	5,39	0,16%
EUNICE TRAD	0,01	0,00%	2,81	0,37%	2,42	0,11%	5,23	0,15%
ELTA	0,00	0,00%	1,46	0,19%	2,26	0,11%	3,72	0,11%
OTE	0,00	0,00%	0,98	0,13%	0,77	0,04%	1,74	0,05%
MYTILINEOS_USP	0,00	0,00%	0,00	0,00%	1,52	0,07%	1,52	0,04%
ELPEDISON_USP	0,00	0,00%	0,00	0,00%	1,45	0,07%	1,45	0,04%
SOLAR ENERGY	0,00	0,00%	0,38	0,05%	0,85	0,04%	1,24	0,04%
HERON_USP	0,00	0,00%	0,00	0,00%	1,20	0,06%	1,20	0,03%
NRG_USP	0,00	0,00%	0,00	0,00%	0,91	0,04%	0,91	0,03%
HERON2_V	0,32	0,05%	0,00	0,00%	0,00	0,00%	0,32	0,01%
KOR_POWER	0,24	0,04%	0,00	0,00%	0,00	0,00%	0,24	0,01%
MARKOU	0,00	0,00%	0,23	0,03%	0,00	0,00%	0,23	0,01%
VIOLAR	0,00	0,00%	0,09	0,01%	0,01	0,00%	0,10	0,00%
<b>TOTAL</b>	<b>613,13</b>	<b>100,00%</b>	<b>760,46</b>	<b>100,00%</b>	<b>2.100,75</b>	<b>100,00%</b>	<b>3.474,34</b>	<b>100,00%</b>

## 2.1 Evolution of Energy Mix (GWh)

### 2022

MONTH	LIGNITE	NATURAL GAS	HYDRO	OTHER FUEL	SYSTEM RES	NETWORK RES	CRETE INTERCONNECTION (RES)	CONVENTIONAL GENERATION	SYSTEM GENERATION	TOTAL GENERATION
JAN	509,089	1,566,934	682,671	2,202	986,986	544,040	2,327	2,760,896	3,750,209	4,294,249
FEB	412,584	1,483,143	205,772	2,031	874,822	532,601	1,467	2,103,530	2,979,819	3,512,420
MAR	671,611	2,070,201	337,682	2,034	1,016,516	670,517	1,302	3,081,528	4,099,346	4,769,863
APR	176,127	827,202	228,322	1,916	902,052	766,852	2,020	1,233,567	2,137,639	2,904,491
MAY	222,826	1,184,083	312,270	2,209	687,767	831,875	0,382	1,721,388	2,409,537	3,241,412
JUN	468,099	1,627,528	379,159	2,338	880,934	812,167	0,428	2,477,124	3,358,486	4,170,653
JUL	739,377	2,249,903	447,562	2,396	1,171,811	917,507	1,108	3,439,238	4,612,157	5,529,664
AUG	794,904	2,141,674	429,492	2,452	856,810	796,824	0,315	3,368,522	4,225,647	5,022,471
SEP	394,231	1,249,569	269,580	2,357	788,578	764,063	1,324	1,915,737	2,705,639	3,469,702
OCT	277,407	793,115	207,132	2,491	1,148,214	736,286	3,813	1,280,145	2,432,172	3,168,458
NOV	312,781	1,200,292	211,790	2,155	1,078,388	521,601	2,650	1,727,018	2,808,056	3,329,657
DEC	606,588	1,554,965	293,816	2,287	898,398	468,437	2,756	2,457,656	3,358,810	3,827,247
	<b>5,585,624</b>	<b>17,948,609</b>	<b>4,005,248</b>	<b>26,868</b>	<b>11,291,276</b>	<b>8,362,770</b>	<b>19,892</b>	<b>27,566,349</b>	<b>38,877,517</b>	<b>47,240,287</b>

### 2023

MONTH	LIGNITE	NATURAL GAS	HYDRO	OTHER FUEL	SYSTEM RES	NETWORK RES	CRETE INTERCONNECTION (RES)	CONVENTIONAL GENERATION	SYSTEM GENERATION	TOTAL GENERATION
JAN	405,532	885,725	353,362	2,251	984,504	565,229	1,565	1,646,870	2,632,939	3,198,168
FEB	611,167	917,775	286,531	1,893	1,012,430	679,618	1,404	1,817,366	2,831,200	3,510,818
MAR	428,766	949,211	187,044	0,300	1,058,859	820,246	2,430	1,565,321	2,626,610	3,446,856
APR	275,156	1,099,621	175,728	0,777	806,813	845,941	0,915	1,551,282	2,359,010	3,204,951
MAY										
JUN										
JUL										
AUG										
SEP										
OCT										
NOV										
DEC										
	<b>1,720,621</b>	<b>3,852,332</b>	<b>1,002,665</b>	<b>5,221</b>	<b>3,862,606</b>	<b>2,911,034</b>	<b>6,314</b>	<b>6,580,839</b>	<b>10,449,759</b>	<b>13,360,793</b>

## 2.2 Evolution of Conventional Generation Mix (GWh)

### 2022

MONTH	LIGNITE	NATURAL GAS	HYDRO	OTHER FUEL	TOTAL CONVENTIONAL GENERATION
JAN	509,089	1.566,934	682,671	2,202	2.760,896
FEB	412,584	1.483,143	205,772	2,031	2.103,530
MAR	671,611	2.070,201	337,682	2,034	3.081,528
APR	176,127	827,202	228,322	1,916	1.233,567
MAY	222,826	1.184,083	312,270	2,209	1.721,388
JUN	468,099	1.627,528	379,159	2,338	2.477,124
JUL	739,377	2.249,903	447,562	2,396	3.439,238
AUG	794,904	2.141,674	429,492	2,452	3.368,522
SEP	394,231	1.249,569	269,580	2,357	1.915,737
OCT	277,407	793,115	207,132	2,491	1.280,145
NOV	312,781	1.200,292	211,790	2,155	1.727,018
DEC	606,588	1.554,965	293,816	2,287	2.457,656
	<b>5.585,624</b>	<b>17.948,609</b>	<b>4.005,248</b>	<b>26,868</b>	<b>27.566,349</b>

### 2023

MONTH	LIGNITE	NATURAL GAS	HYDRO	OTHER FUEL	TOTAL CONVENTIONAL GENERATION
JAN	405,532	885,725	353,362	2,251	1.646,870
FEB	611,167	917,775	286,531	1,893	1.817,366
MAR	428,766	949,211	187,044	0,300	1.565,321
APR	275,156	1.099,621	175,728	0,777	1.551,282
MAY					
JUN					
JUL					
AUG					
SEP					
OCT					
NOV					
DEC					
	<b>1.720,621</b>	<b>3.852,332</b>	<b>1.002,665</b>	<b>5,221</b>	<b>6.580,839</b>

## 2.3 Evolution of System RES Generation Mix (GWh)

### 2022

MONTH	WIND	PHOTOVOLTAIC	SMALL HYDRO	CO-GENERATION	TOTAL SYSTEM RES GENERATION
JAN	867,62	15,38	13,96	90,02	986,99
FEB	772,18	16,53	11,67	74,45	874,82
MAR	893,40	24,16	11,12	87,84	1.016,52
APR	777,32	35,39	15,22	74,12	902,05
MAY	535,53	58,51	12,14	81,59	687,77
JUN	704,37	73,22	11,17	92,18	880,93
JUL	964,10	89,47	10,55	107,69	1.171,81
AUG	683,92	77,03	7,11	88,76	856,81
SEP	629,26	75,68	6,92	76,71	788,58
OCT	997,11	66,55	5,30	79,25	1.148,21
NOV	948,86	38,73	7,47	83,32	1.078,39
DEC	730,42	35,81	12,59	119,58	898,40
	<b>9.504,09</b>	<b>606,45</b>	<b>125,22</b>	<b>1.055,52</b>	<b>11.291,28</b>

### 2023

MONTH	WIND	PHOTOVOLTAIC	SMALL HYDRO	CO-GENERATION	TOTAL SYSTEM RES GENERATION
JAN	831,74	46,08	12,31	94,37	984,50
FEB	860,06	61,06	8,37	82,94	1.012,43
MAR	887,65	70,80	11,76	88,64	1.058,86
APR	639,87	73,36	11,13	82,46	806,81
MAY					
JUN					
JUL					
AUG					
SEP					
OCT					
NOV					
DEC					
	<b>3.219,32</b>	<b>251,29</b>	<b>43,58</b>	<b>348,41</b>	<b>3.862,61</b>

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

PRODUCER	NET GENERATION (GWh)	NET GENERATION (%)	NET CAPACITY (MW)	NET CAPACITY (%)
PPC	934,68	57,86%	8.674,86	71,92%
MYTILINEOS	282,79	17,51%	1.572,70	13,04%
KORINTHOS POWER	169,19	10,47%	433,46	3,59%
ELPEDISON	169,00	10,46%	810,18	6,72%
HERON 2 VIOTIAS	59,76	3,70%	422,14	3,50%
HERON	0,01	0,00%	147,76	1,23%
<b>TOTAL</b>	<b>1.615,42</b>	<b>100,00%</b>	<b>12.061,11</b>	<b>100,00%</b>

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

PRODUCER	2023-01	2023-02	2023-03	2023-04	TOTAL
PPC	1.154,8	1.285,0	1.012,2	934,7	<b>4.386,7</b>
MYTILINEOS	157,5	111,1	271,0	282,8	<b>822,4</b>
ELPEDISON	246,5	215,5	132,8	169,0	<b>763,8</b>
KORINTHOS POWER	45,4	145,2	83,6	169,2	<b>443,4</b>
HERON 2 VIOTIAS	113,0	122,1	134,7	59,8	<b>429,5</b>
HERON	0,0	0,0	0,0	0,0	<b>0,0</b>
<b>TOTAL</b>	<b>1.717,1</b>	<b>1.878,9</b>	<b>1.634,3</b>	<b>1.615,4</b>	<b>6.845,8</b>

## 2.6 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	39,73	19,50%
AGIOS DIMITRIOS4	PPC	LIGNITE	283,00	8,81	4,33%
AGIOS DIMITRIOS5	PPC	LIGNITE	342,00	162,45	65,97%
MEGALOPOLI3	PPC	LIGNITE	255,00	0,00	0,00%
MEGALOPOLI4	PPC	LIGNITE	256,00	0,00	0,00%
MELITI	PPC	LIGNITE	289,00	18,40	8,84%
PROLEMAIDA5	PPC	LIGNITE	616,00	45,77	10,32%
AGRAS	PPC	HYDRO	50,00	2,47	6,86%
AOOS	PPC	HYDRO	210,00	11,12	7,36%
ASOMATA	PPC	HYDRO	108,00	2,67	3,43%
EDESSAIOS	PPC	HYDRO	19,00	2,35	17,17%
ILARIONAS	PPC	HYDRO	153,00	18,74	17,01%
KASTRAKI	PPC	HYDRO	320,00	21,73	9,43%
KREMASTA	PPC	HYDRO	437,20	24,93	7,92%
LADONAS	PPC	HYDRO	70,00	14,33	28,42%
PLASTIRAS	PPC	HYDRO	129,90	2,20	2,35%
PLATANOVRYSI	PPC	HYDRO	116,00	8,79	10,53%
POLYFYTO	PPC	HYDRO	375,00	8,55	3,17%
POURNARI1	PPC	HYDRO	300,00	8,29	3,84%
POURNARI2	PPC	HYDRO	33,60	1,02	4,21%
SFIKIA	PPC	HYDRO	315,00	15,46	6,82%
STRATOS1	PPC	HYDRO	150,00	11,13	10,31%
THESAVROS	PPC	HYDRO	384,00	21,94	7,94%
AGIOS NIKOLAOS2	MYTILINEOS	NATURAL GAS	806,00	23,70	4,08%
ALIVERI5	PPC	NATURAL GAS	417,00	119,15	39,68%
ALOUMINIO	MYTILINEOS	NATURAL GAS	334,00	92,74	38,56%
ELPEDISON THESS	ELPEDISON	NATURAL GAS	400,18	115,38	40,04%
ELPEDISON THISVI	ELPEDISON	NATURAL GAS	410,00	53,62	18,16%
HERON CC	HERON 2 VIOTIAS	NATURAL GAS	422,14	59,76	19,66%
KOMOTINI	PPC	NATURAL GAS	476,30	18,05	5,26%
KORINTHOS POWER	KORINTHOS POWER	NATURAL GAS	433,46	169,19	54,21%
LAVRIO4	PPC	NATURAL GAS	550,20	26,58	6,71%
LAVRIO5	PPC	NATURAL GAS	377,66	132,28	48,65%
MEGALOPOLI5	PPC	NATURAL GAS	811,00	187,73	32,15%
PROTERGIA CC	MYTILINEOS	NATURAL GAS	432,70	166,35	53,40%
HERON1	HERON	NATURAL GAS	49,25	0,01	0,03%
HERON2	HERON	NATURAL GAS	49,25	0,00	0,00%
HERON3	HERON	NATURAL GAS	49,25	0,00	0,00%
<b>TOTAL</b>			<b>12.061,11</b>	<b>1.615,42</b>	<b>18,60%</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).
- Utilisation coefficient is the ratio of the monthly electricity generation to the maximum possible electricity generation during this period.
- The generation units Agios Nikolaos2 and Ptolemaida5 are in trial phase. Their Net Capacity shall be precisely determined following the completion of the trial phase.

## 2.7 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					158,86	928	<b>158,86</b>	<b>928</b>
CENTRAL GREECE	57,79	907			396,18	2.553	<b>453,97</b>	<b>3.460</b>
CENTRAL MACEDONIA	31,50	867			115,38	400	<b>146,88</b>	<b>1.267</b>
EAST MACEDONIA - THRACE	30,73	500			18,05	476	<b>48,78</b>	<b>976</b>
EPIRUS	20,44	544					<b>20,44</b>	<b>544</b>
EVIA					119,15	417	<b>119,15</b>	<b>417</b>
PELOPONNESE	14,33	70	0,00	511	356,92	1.244	<b>371,25</b>	<b>1.825</b>
THESSALY	2,20	130					<b>2,20</b>	<b>130</b>
WEST MACEDONIA	18,74	153	275,16	2.361			<b>293,90</b>	<b>2.514</b>
<b>TOTAL</b>	<b>175,73</b>	<b>3.171</b>	<b>275,16</b>	<b>2.872</b>	<b>1.164,54</b>	<b>6.018</b>	<b>1.615,42</b>	<b>12.061</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).

## 2.8 Geographical Distribution of System RES Generation

RES TECHNOLOGY AREA	CO-GENERATION		PHOTOVOLTAIC		SMALL HYDRO		WIND		TOTAL	
	NET GENERATION (GWh)	NET CAPACITY (MW)								
ATTICA							21,14	148	<b>21,14</b>	<b>148</b>
CENTRAL GREECE	64,92	133	18,35	115	8,63	23	211,32	1.365	<b>303,21</b>	<b>1.635</b>
CENTRAL MACEDONIA	5,52	16	3,42	29	0,00	11	25,80	127	<b>34,74</b>	<b>182</b>
CYCLADES							3,75	15	<b>3,75</b>	<b>15</b>
EAST MACEDONIA - THRACE	12,02	18					80,91	518	<b>92,93</b>	<b>535</b>
EPIRUS							16,71	104	<b>16,71</b>	<b>104</b>
EVIA							120,65	745	<b>120,65</b>	<b>745</b>
IONIAN ISLANDS							15,39	93	<b>15,39</b>	<b>93</b>
PELOPONNESE			6,55	47			104,39	705	<b>110,94</b>	<b>751</b>
THESSALY			8,18	58	2,51	6			<b>10,69</b>	<b>64</b>
WEST MACEDONIA			36,86	274			39,81	254	<b>76,67</b>	<b>529</b>
<b>TOTAL</b>	<b>82,46</b>	<b>167</b>	<b>73,36</b>	<b>522</b>	<b>11,13</b>	<b>40</b>	<b>639,87</b>	<b>4.074</b>	<b>806,81</b>	<b>4.803</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.

### 3.1 Evolution of Commercial Programs (GWh)

### 3.2 Evolution of Physical Energy Flows (GWh)

#### 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	389,184	887,420	498,236
NOV	469,318	839,716	370,398
DEC	602,715	872,335	269,620
<b>TOTAL</b>	<b>5.474,414</b>	<b>9.026,930</b>	<b>3.552,516</b>

#### 2023

MONTH	EXPORTS (GWh)	IMPORTS (GWh)	BALANCE (GWh)
JAN	230,049	1,303,819	1,073,770
FEB	346,672	951,589	604,917
MAR	409,196	999,391	590,195
APR	418,808	844,025	425,217
MAY			
JUN			
JUL			
AUG			
SEP			
OCT			
NOV			
DEC			
<b>TOTAL</b>	<b>1.404,725</b>	<b>4.098,824</b>	<b>2.694,099</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	218,593	694,197	475,604
NOV	273,883	631,922	358,038
DEC	383,564	638,953	255,389
<b>TOTAL</b>	<b>4.303,367</b>	<b>7.750,991</b>	<b>3.447,624</b>

#### 2023

MONTH	EXPORTS (GWh)	IMPORTS (GWh)	BALANCE (GWh)
JAN	102,786	1,148,936	1,046,150
FEB	204,853	791,532	586,679
MAR	252,610	814,730	562,121
APR	308,404	712,524	404,120
MAY			
JUN			
JUL			
AUG			
SEP			
OCT			
NOV			
DEC			
<b>TOTAL</b>	<b>868,653</b>	<b>3.467,722</b>	<b>2.599,069</b>

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

2022	INTERCONNECTION	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
	ALBANIA	147,490	163,144	60,643	228,934	194,236	74,000	26,647	10,632	126,065	191,501	171,810	201,407	<b>1.596,509</b>
	BULGARIA	374,953	337,030	264,373	360,108	290,351	293,137	177,270	144,613	313,673	252,121	248,524	295,017	<b>3.351,170</b>
	ITALY	210,696	197,158	86,204	163,501	102,648	12,128	16,427	4,579	119,173	205,583	163,425	167,558	<b>1.449,080</b>
	N. MACEDONIA	220,180	216,560	95,520	228,066	264,194	141,547	116,238	103,183	226,724	203,987	222,713	172,637	<b>2.211,549</b>
	TURKEY	37,194	33,600	37,148	29,988	37,200	35,996	37,180	37,179	29,949	34,228	33,244	35,716	<b>418,622</b>
	<b>TOTAL</b>	<b>990,513</b>	<b>947,492</b>	<b>543,888</b>	<b>1.010,597</b>	<b>888,629</b>	<b>556,808</b>	<b>373,762</b>	<b>300,186</b>	<b>815,584</b>	<b>887,420</b>	<b>839,716</b>	<b>872,335</b>	<b>9.026,930</b>

2023	INTERCONNECTION	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
	ALBANIA	279,078	201,953	216,750	158,053									<b>855,834</b>
	BULGARIA	476,171	375,795	394,528	399,410									<b>1.645,904</b>
	ITALY	234,331	120,734	119,691	57,754									<b>532,510</b>
	N. MACEDONIA	280,853	220,829	233,604	203,978									<b>939,264</b>
	TURKEY	33,386	32,278	34,818	24,830									<b>125,312</b>
	<b>TOTAL</b>	<b>1.303,819</b>	<b>951,589</b>	<b>999,391</b>	<b>844,025</b>									<b>4.098,824</b>

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

2022	INTERCONNECTION	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
	ALBANIA	134,757	94,445	171,319	14,096	24,992	153,110	253,443	231,197	111,455	61,192	84,019	52,845	<b>1.386,870</b>
	BULGARIA	27,739	18,184	49,339	4,476	12,095	24,192	90,280	106,816	40,785	59,353	84,320	190,247	<b>707,826</b>
	ITALY	115,453	106,567	267,077	150,359	155,526	102,163	351,200	169,480	162,610	163,037	170,573	237,480	<b>2.151,525</b>
	N. MACEDONIA	120,530	50,250	123,900	20,503	21,604	110,797	183,747	181,076	49,499	50,207	96,127	107,391	<b>1.115,631</b>
	TURKEY	2,265	0,023	0,485	1,562	0,028	1,384	0,849	0,315	1,225	55,395	34,279	14,752	<b>112,562</b>
	<b>TOTAL</b>	<b>400,744</b>	<b>269,469</b>	<b>612,120</b>	<b>190,996</b>	<b>214,245</b>	<b>391,646</b>	<b>879,519</b>	<b>688,884</b>	<b>365,574</b>	<b>389,184</b>	<b>469,318</b>	<b>602,715</b>	<b>5.474,414</b>

2023	INTERCONNECTION	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
	ALBANIA	7,365	24,708	28,341	47,211									<b>107,625</b>
	BULGARIA	31,896	49,717	85,014	53,524									<b>220,151</b>
	ITALY	149,685	228,754	253,102	289,855									<b>921,396</b>
	N. MACEDONIA	12,855	25,776	23,835	20,826									<b>83,292</b>
	TURKEY	28,248	17,717	18,904	7,392									<b>72,261</b>
	<b>TOTAL</b>	<b>230,049</b>	<b>346,672</b>	<b>409,196</b>	<b>418,808</b>									<b>1.404,725</b>

## 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 Aluminio 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

## Developed by

Market Management Department  
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