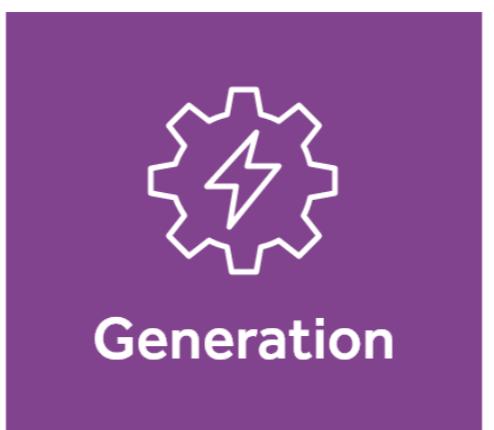
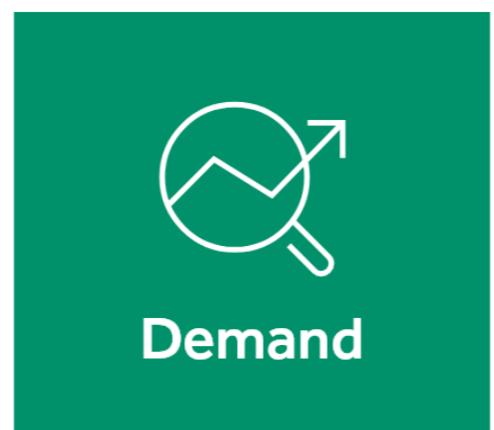
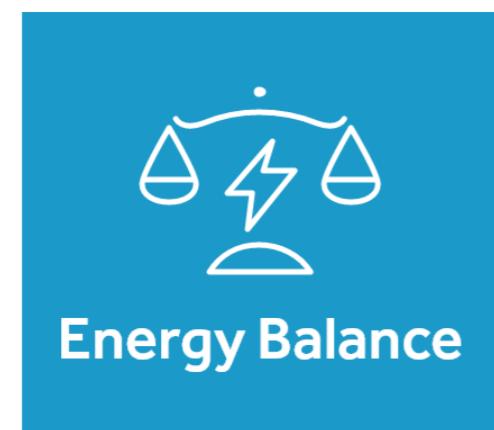
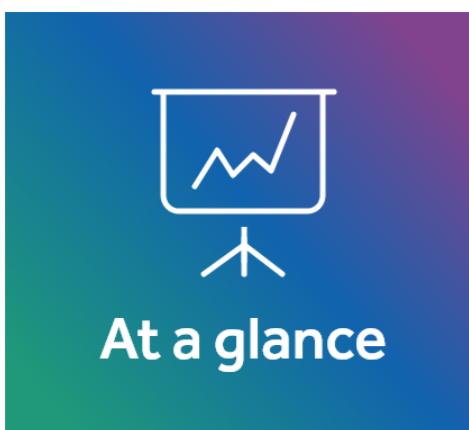


MONTHLY ENERGY BULLETIN

December 2023 - 2nd Edition



01

02

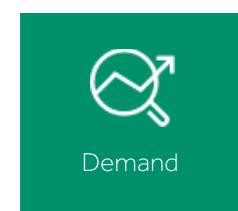
03

11

19

21

The Month at a glance

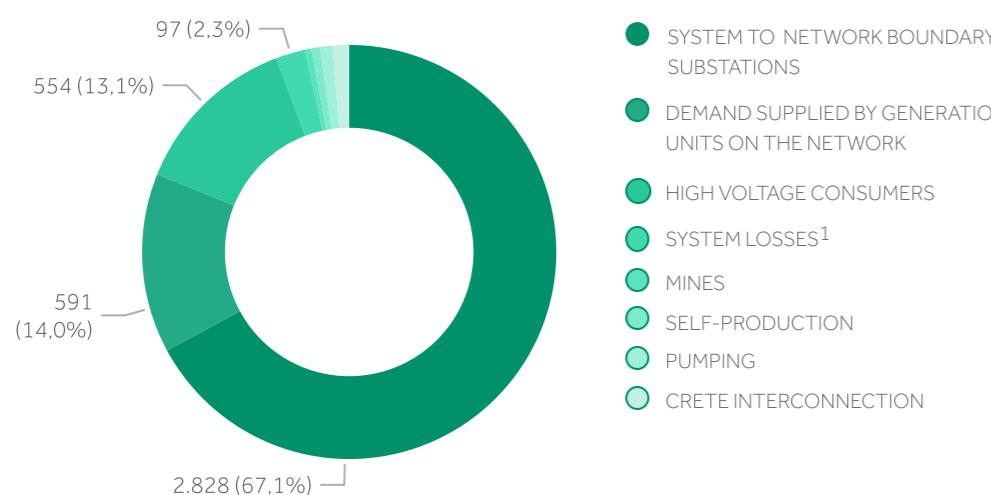


Total Demand
4.214 GWh

↑ 3,22%

Variation in comparison
to the same month of
the previous year

Estimation of total demand (GWh)

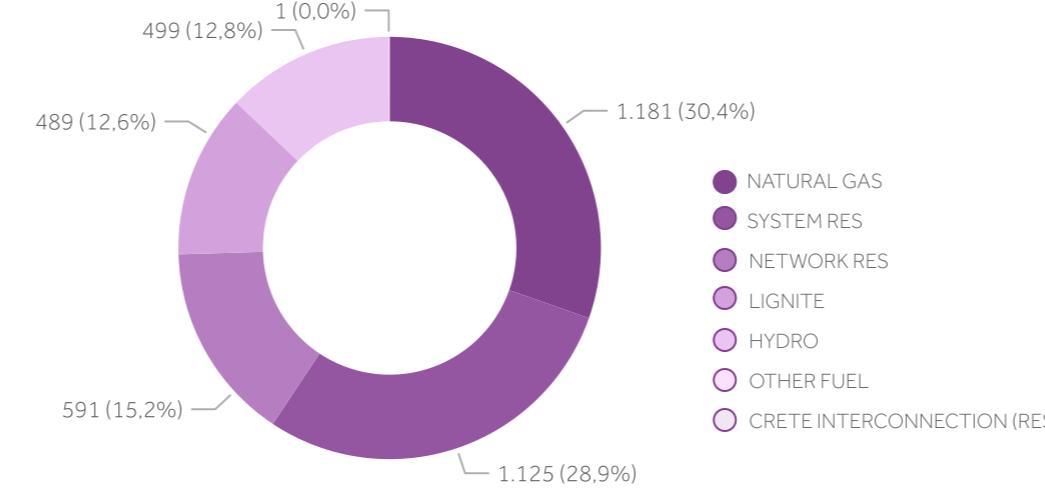


Total Generation
3.888 GWh

↑ 1,59%

Variation in comparison
to the same month of
the previous year

Estimation of total generation (GWh)



Maximum total demand

↑ 18/12/2023 20:00
7.445 MW

Minimum total demand

↓ 27/12/2023 5:00
3.800 MW



Interconnection Balance
326 GWh

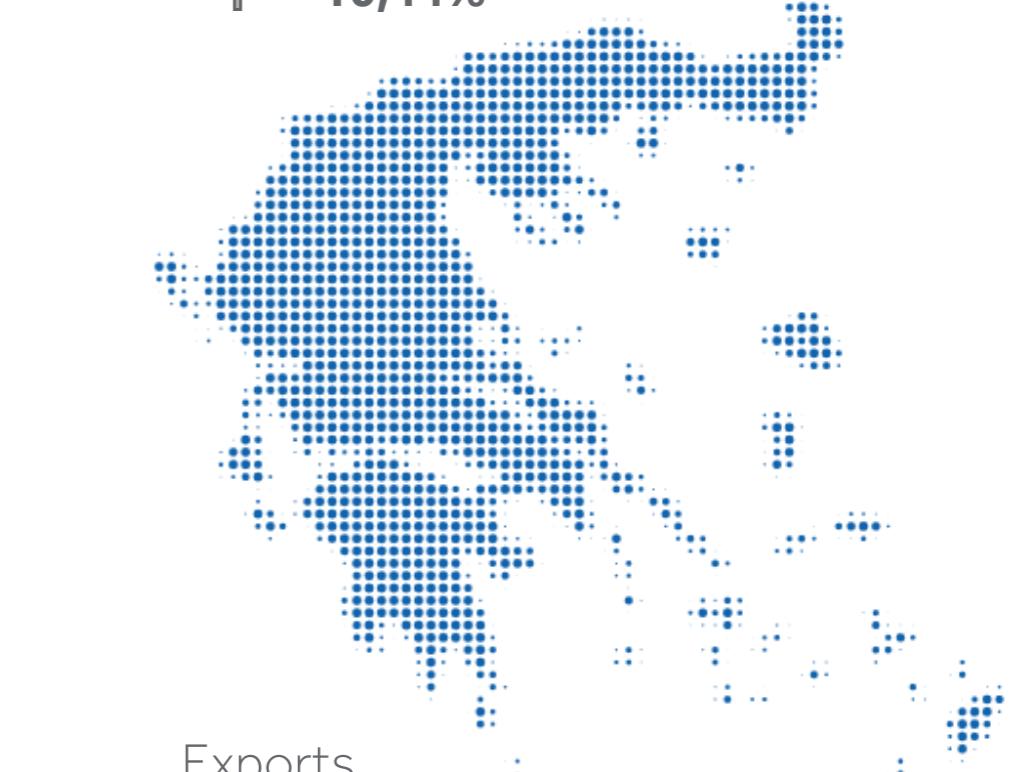
↑ 71 GWh

Variation in comparison
to the same month of
the previous year

Imports

 **706 GWh**

↑ 10,44%



Exports

 **380 GWh**

↓ 1,00%

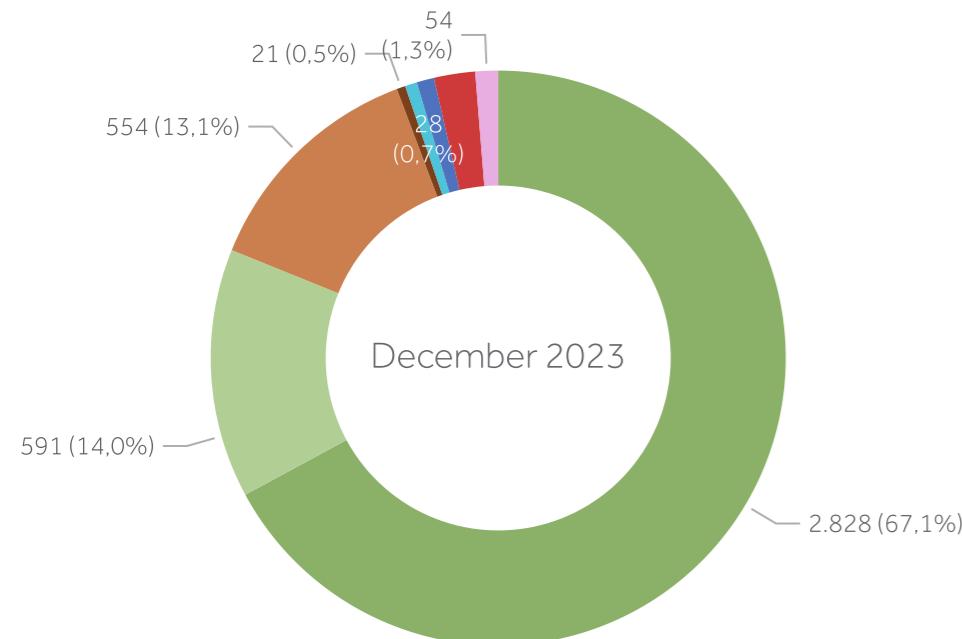
¹ The percentage which refers to losses in this graph is not associated to the Percentage of System Losses presented in page 5 of the present Bulletin.

Energy Balance in the Interconnected System and Network

Ιανουάριος 2023

Δεκέμβριος 2023

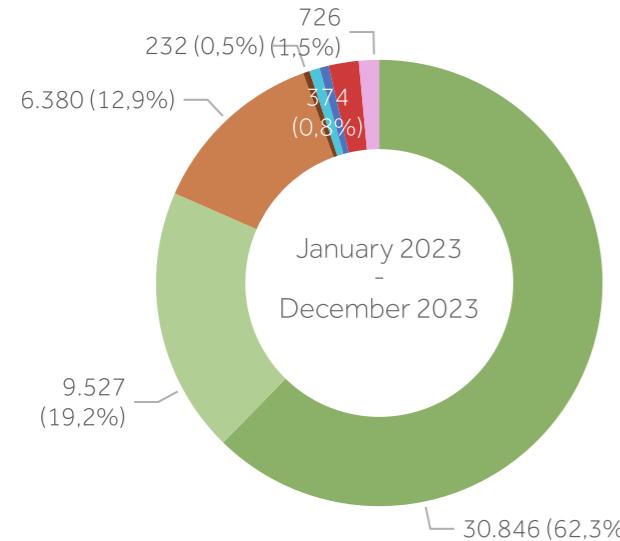
ESTIMATION OF TOTAL DEMAND¹ & INTERCONNECTION BALANCE³



Energy Balance
December 2023

4.214 GWh

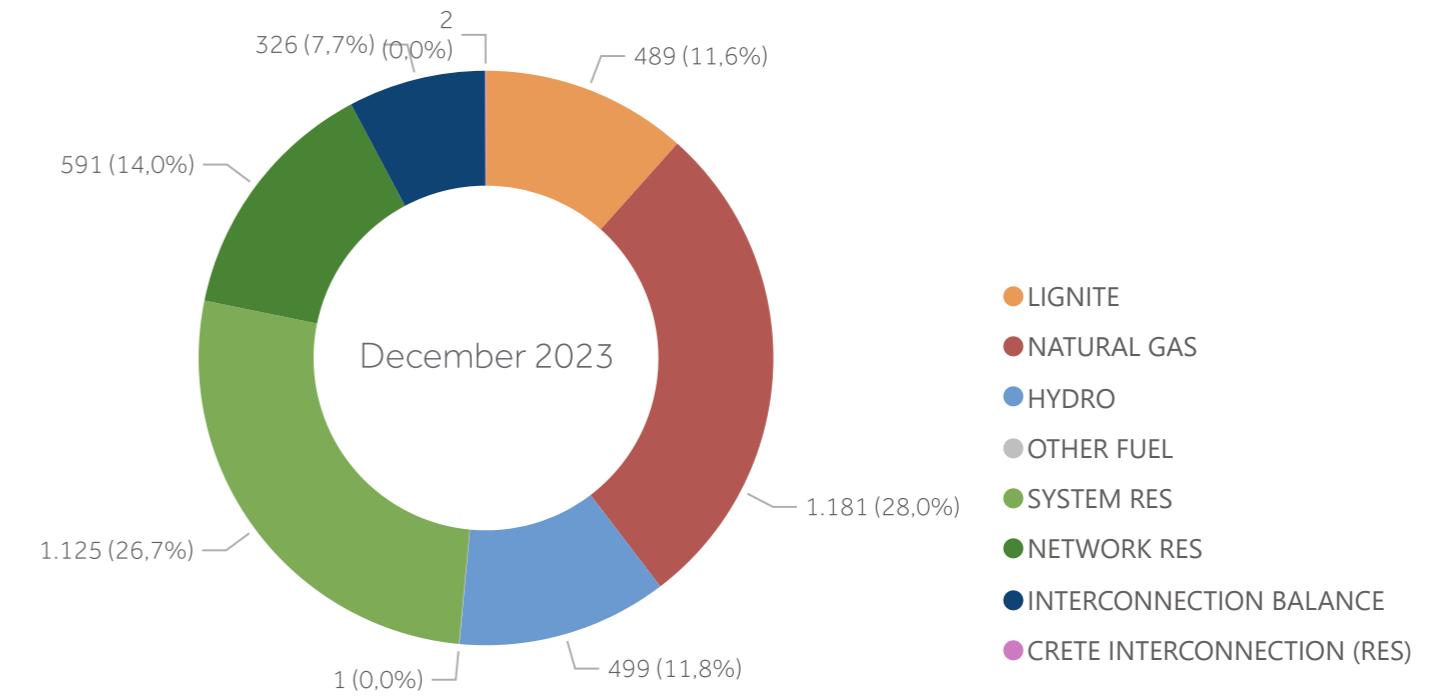
- SYSTEM TO NETWORK BOUNDARY SUBSTATIONS
- NETWORK DEMAND
- HIGH VOLTAGE CONSUMERS
- MINES
- SELF-PRODUCTION
- PUMPING
- SYSTEM LOSSES⁴
- INTERCONNECTION BALANCE
- CRETE INTERCONNECTION



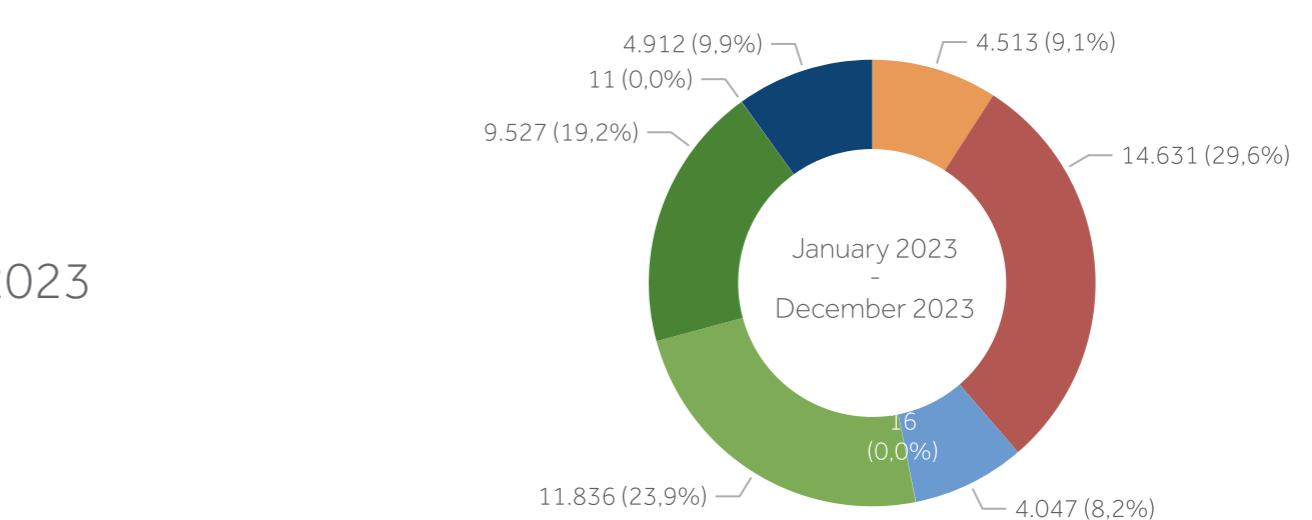
Energy Balance
January 2023 - December 2023

49.491 GWh

ESTIMATION OF TOTAL GENERATION² & INTERCONNECTION BALANCE³



December 2023



Notes

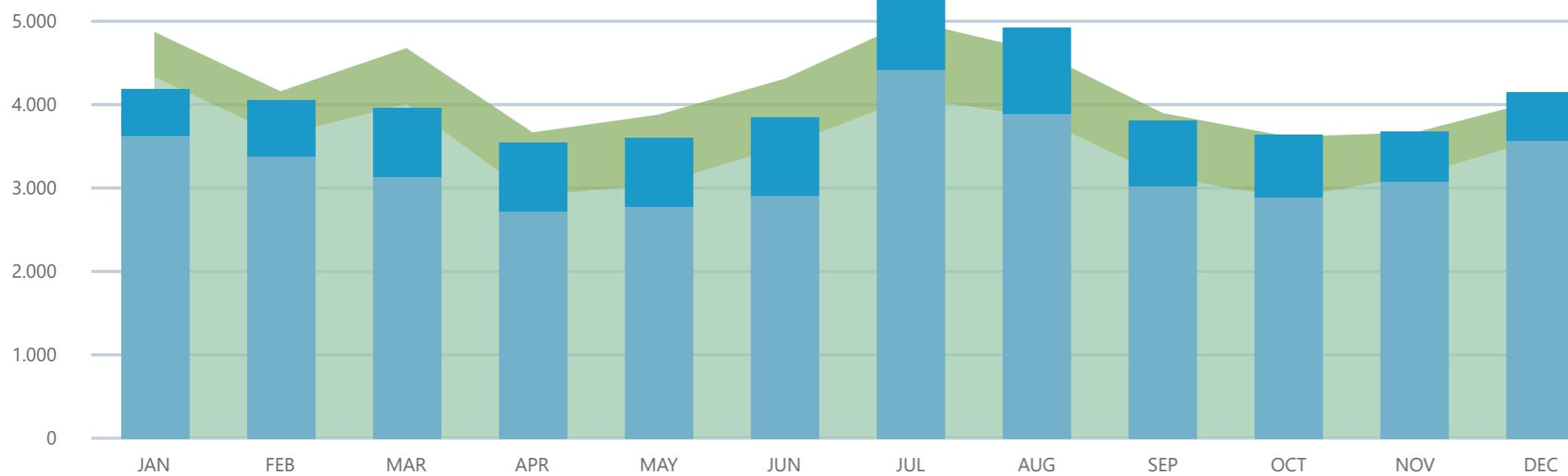
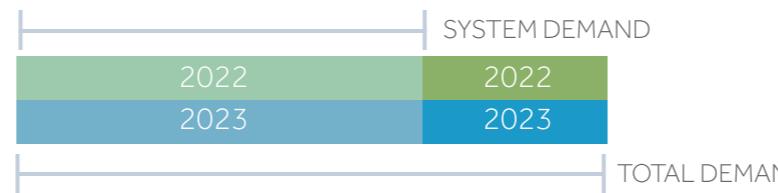
- 1 The demand of non-interconnected islands is not included.
- 2 Network generation results from validated meter data for the Medium Voltage and from validated meter data and estimations for the Low Voltage.
- 3 The surplus in the interconnection balance is displayed in the estimation of demand, whereas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

4.173 GWh

↑ 2,72%

Variation in comparison to the same month of the previous year

System Demand ¹

3.582 GWh

↓ 0,33%

Variation in comparison to the same month of the previous year



Notes

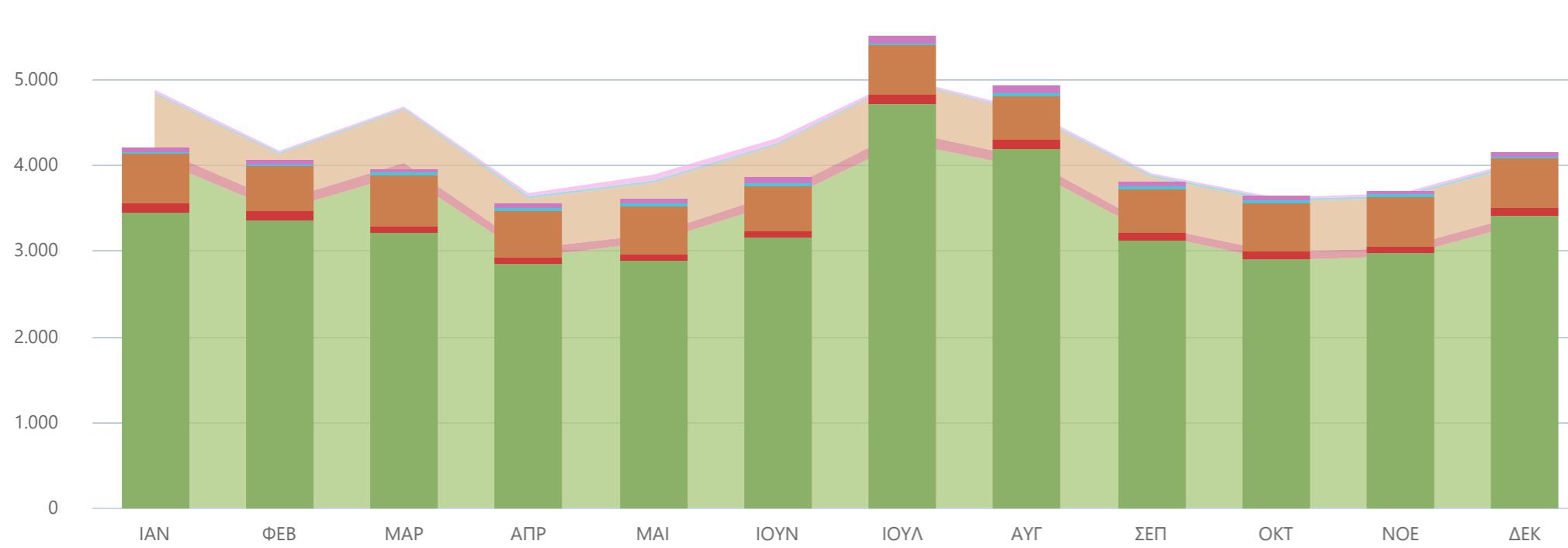
1. System Demand is defined as the generation produced by production units (conventional and RES) connected to the System, required to cover the System Load (excluding pumping). Demand supplied by units injecting into the Network is not included. More specifically, the estimation of System Demand includes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

2022 2023

HIGH VOLTAGE CONSUMERS / MINES

2022 2023

SYSTEM LOSSES

2022 2023

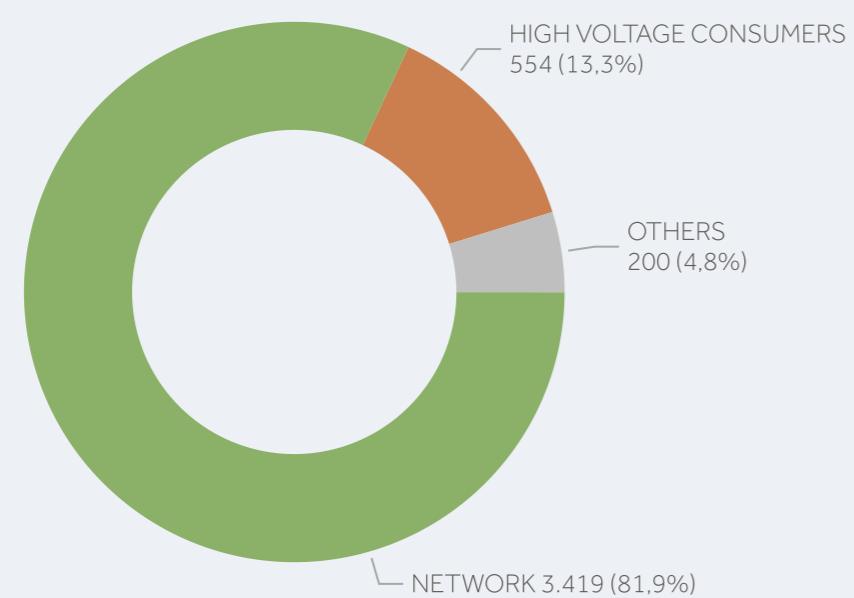
NETWORK

2022 2023

CRETE INTERCONNECTION

2022 2023

ESTIMATION OF DEMAND PER CONSUMPTION CATEGORY (GWh) December 2023



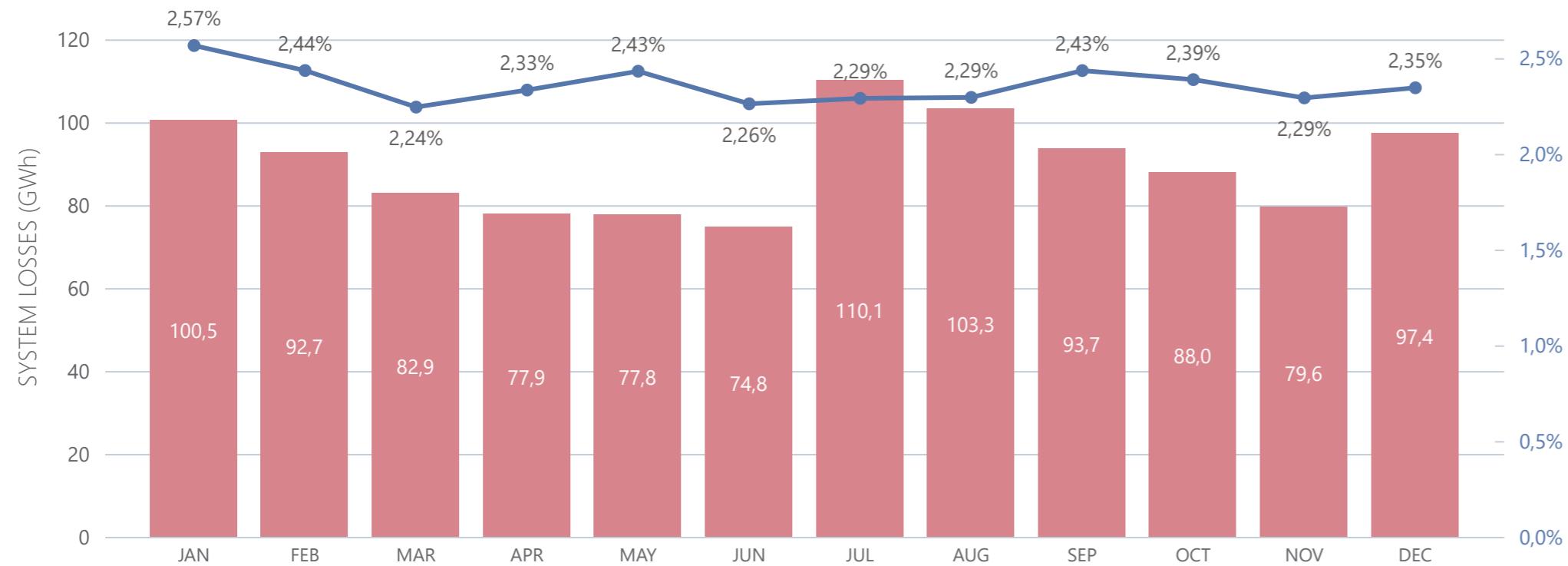
Notes

- 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.
- Demand does not include pumping.
- 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.

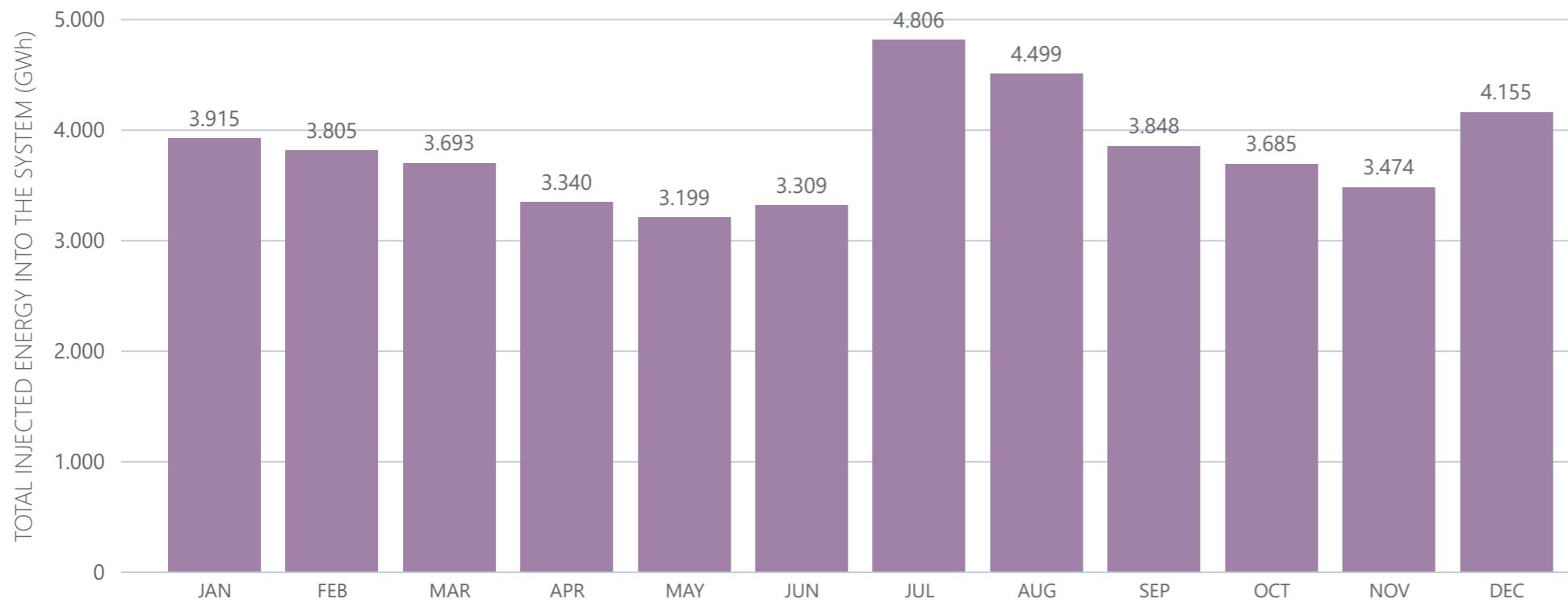
Analysis of System Losses

EVOLUTION OF SYSTEM LOSSES (GWh) and PERCENTAGE OF SYSTEM LOSSES (%)

in relation to the Total Injected Energy into the System (%)



EVOLUTION OF TOTAL INJECTED ENERGY INTO THE SYSTEM (GWh)



PERCENTAGE OF SYSTEM LOSSES (%)

December 2023

2,35%

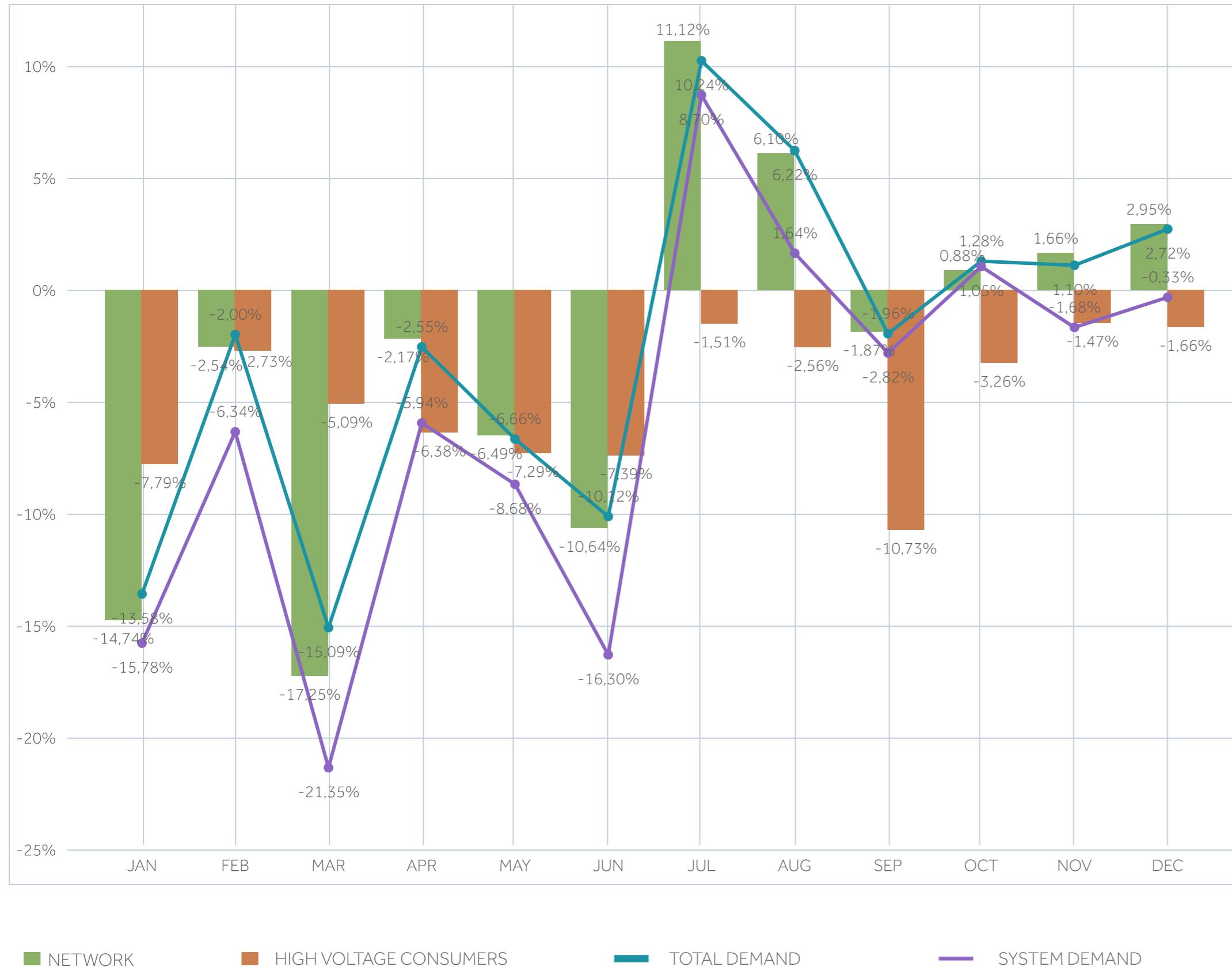
in relation to the
Total Injected Energy
into the System

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.

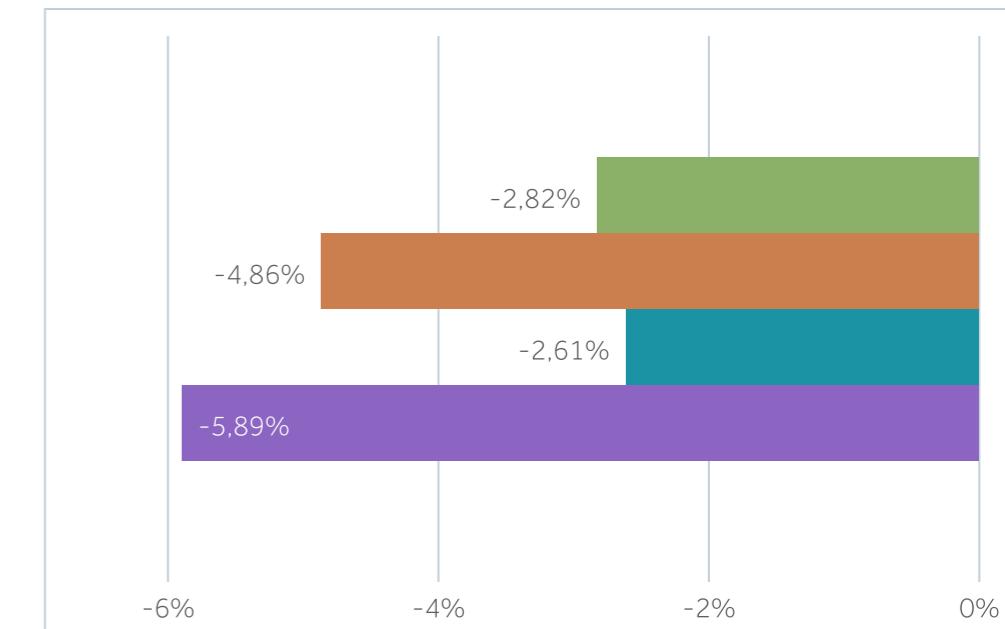
Evolution of Demand in comparison to the previous year

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

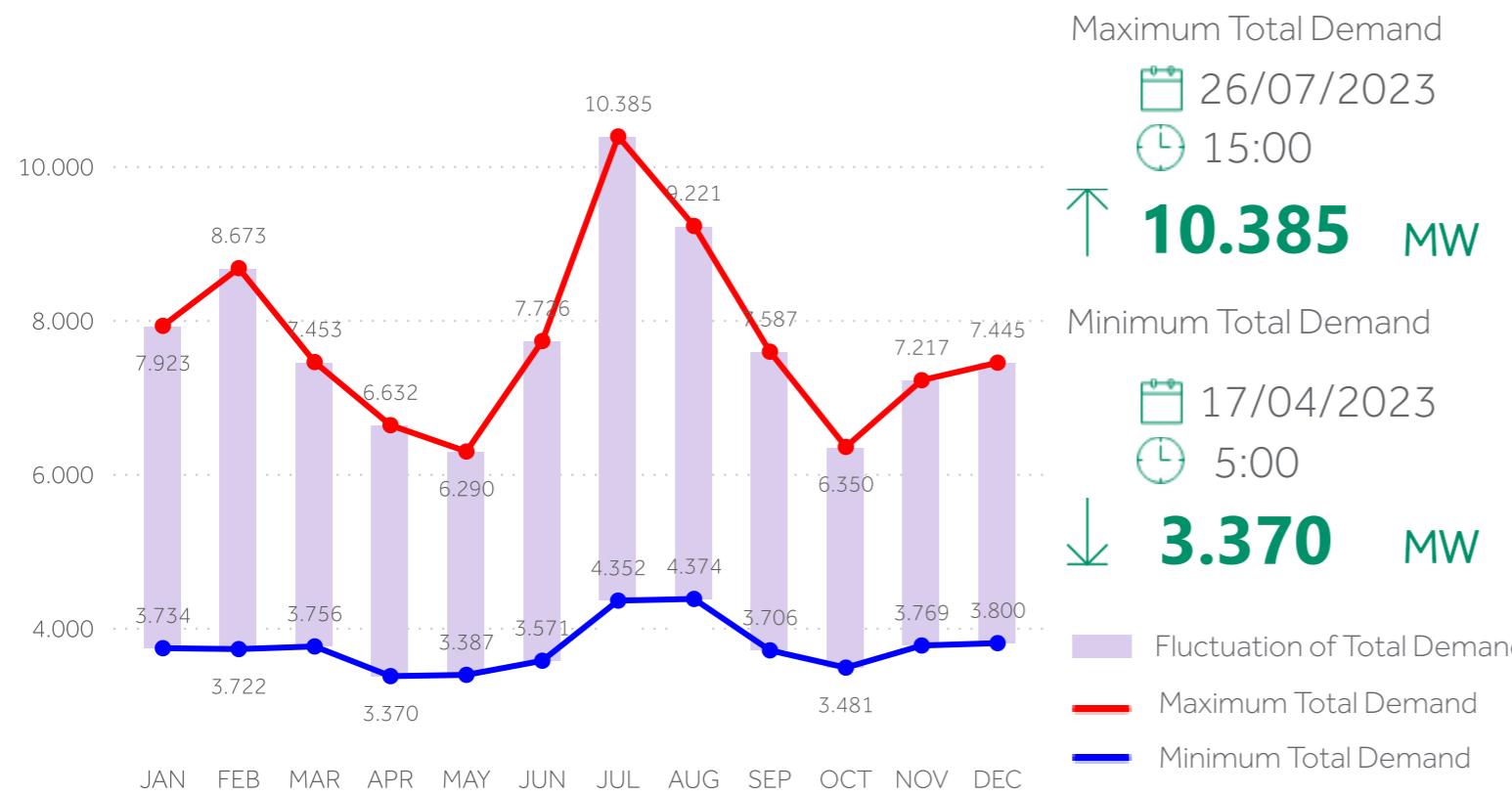
- 1 Network Demand includes the estimation of demand in the System-Network boundary substations and the estimation of demand supplied by production units in the Network. Network generation results from certified measurements for the Medium Voltage and measurements and estimations for the Low Voltage.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

MAXIMUM & MINIMUM HOURLY TOTAL DEMAND (MW)

current year



Annex 1.2

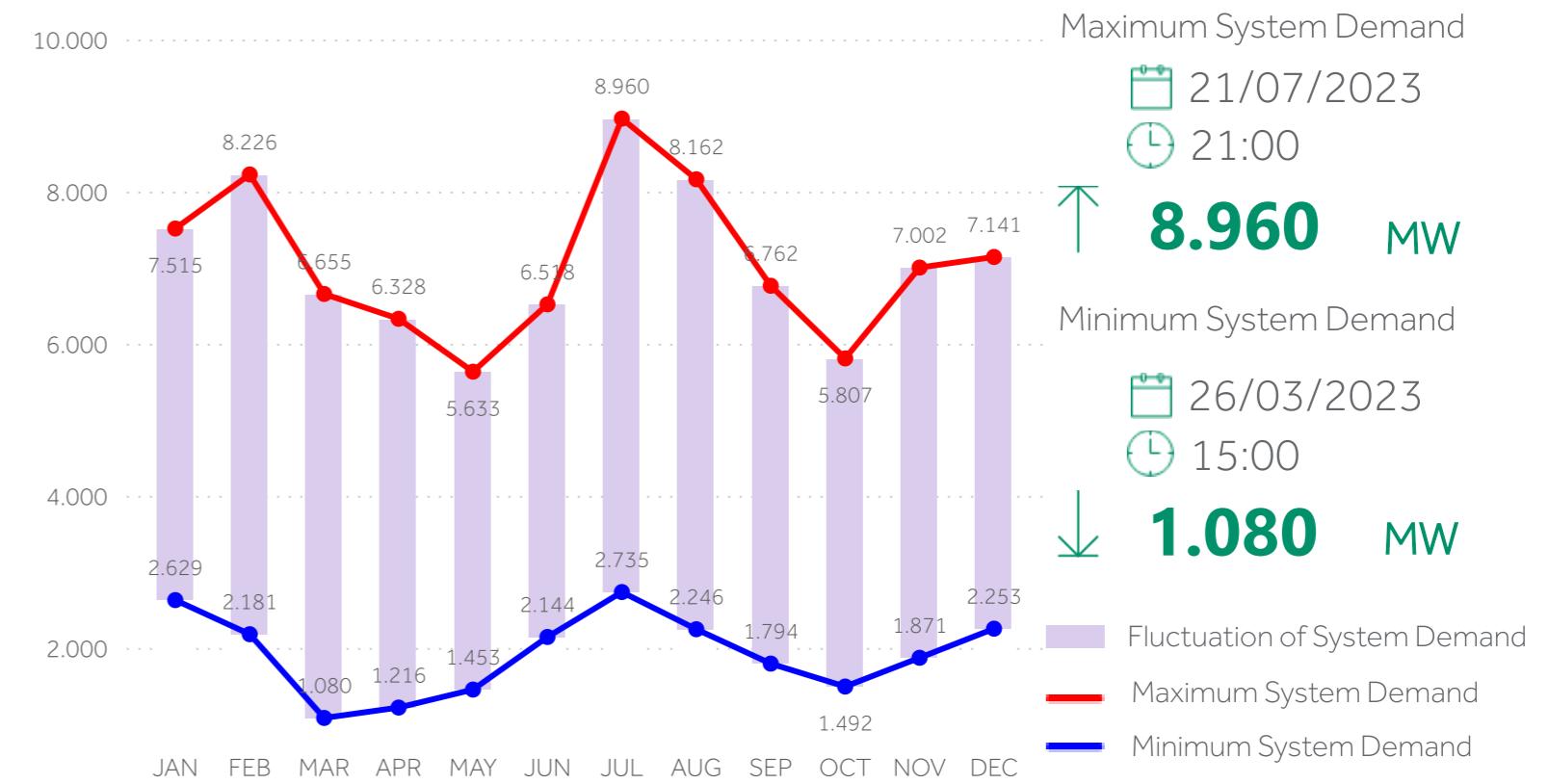


MAXIMUM & MINIMUM HOURLY SYSTEM DEMAND (MW)

current year



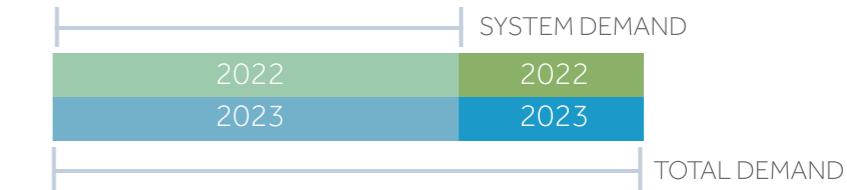
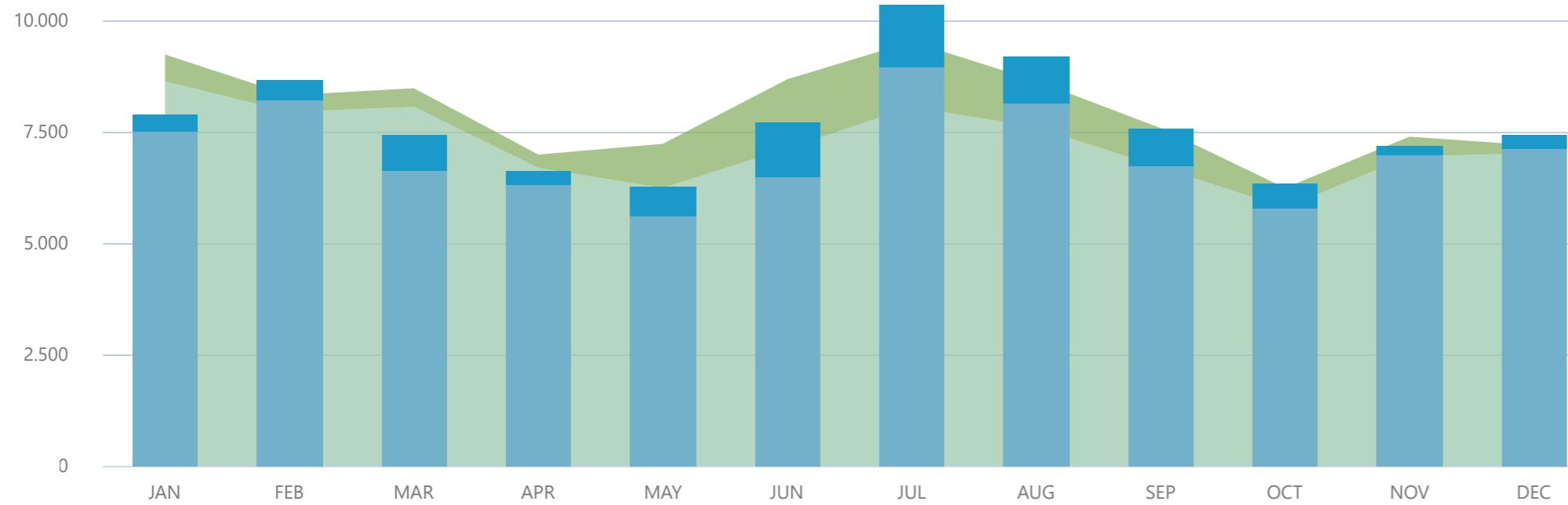
Annex 1.3



MAXIMUM HOURLY TOTAL DEMAND & SYSTEM DEMAND (MW)



Annex 1.2 - 1.3

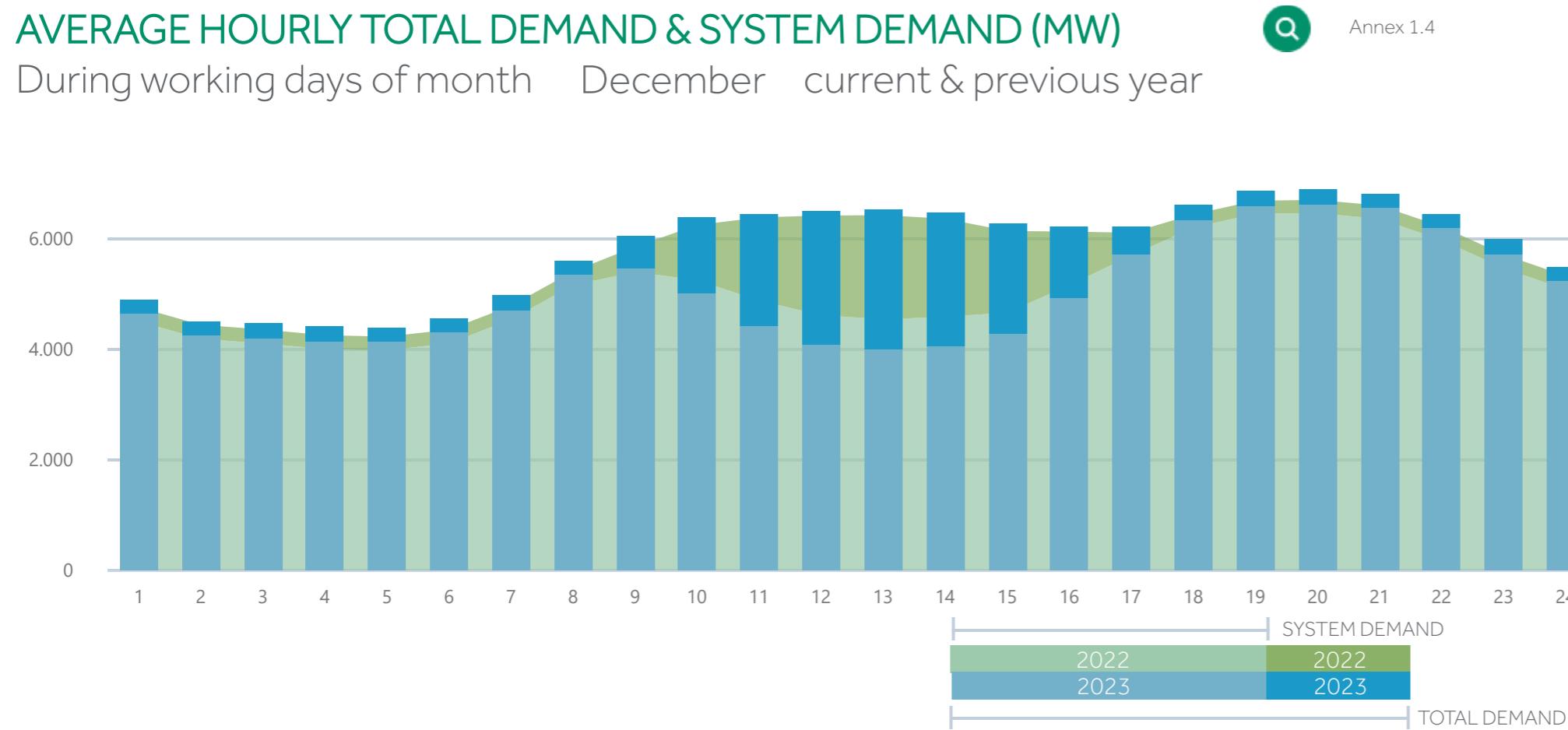


Notes

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

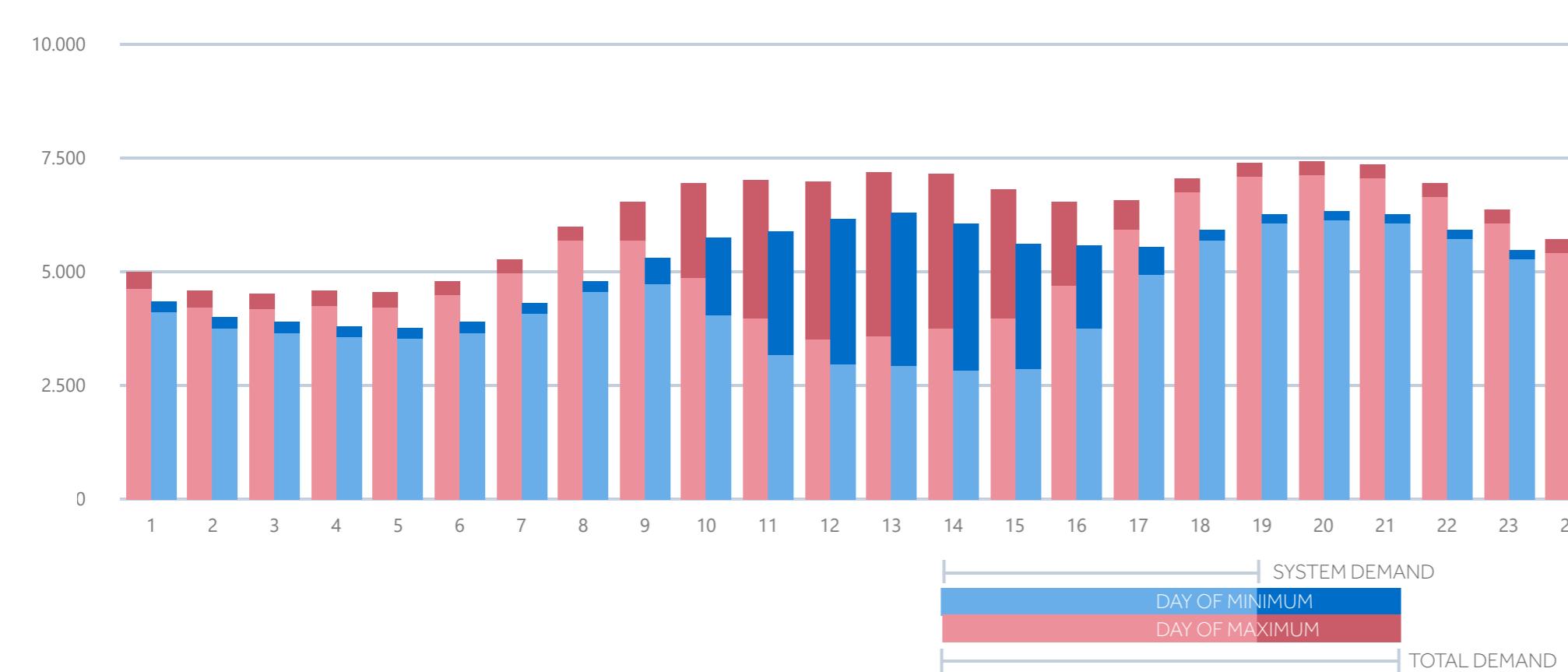
AVERAGE HOURLY TOTAL DEMAND & SYSTEM DEMAND (MW)

During working days of month December current & previous year



HOURLY TOTAL DEMAND & SYSTEM DEMAND (MW)

During the day of maximum and minimum of month December 2023



MAXIMUM TOTAL DEMAND

 18/12/2023

 20:00

 **7.445 MW**

MINIMUM TOTAL DEMAND

 27/12/2023

 5:00

 **3.800 MW**

MAXIMUM SYSTEM DEMAND

 18/12/2023

 20:00

 **7.141 MW**

MINIMUM SYSTEM DEMAND

 26/12/2023

 13:00

 **2.253 MW**

Notes

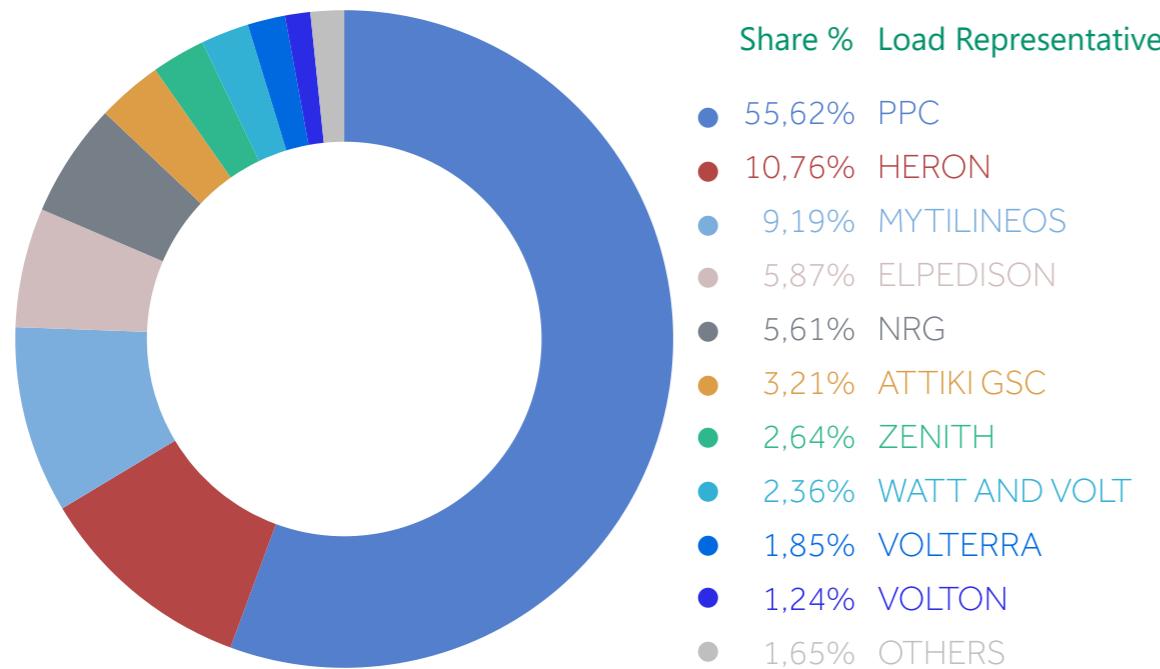
- For each hour, the demand is calculated as the average of the demand of the relevant hour for each working day or the month.
- Total Demand and System Demand include pumping.

Market Share of Load Representatives - Demand per voltage level

MARKET SHARE OF LOAD REPRESENTATIVES (%)

(load representatives with market shares >1% during the current month)

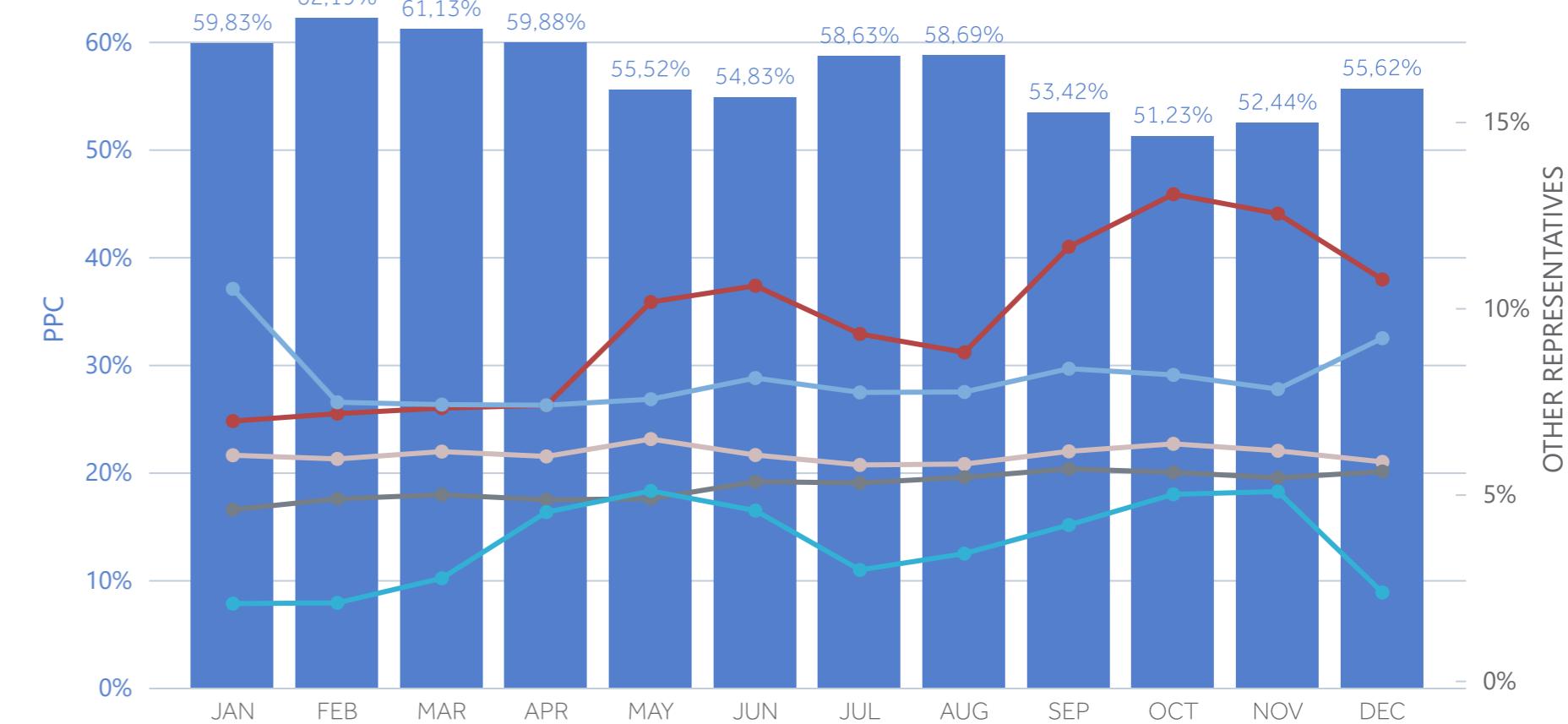
Annex 1.7



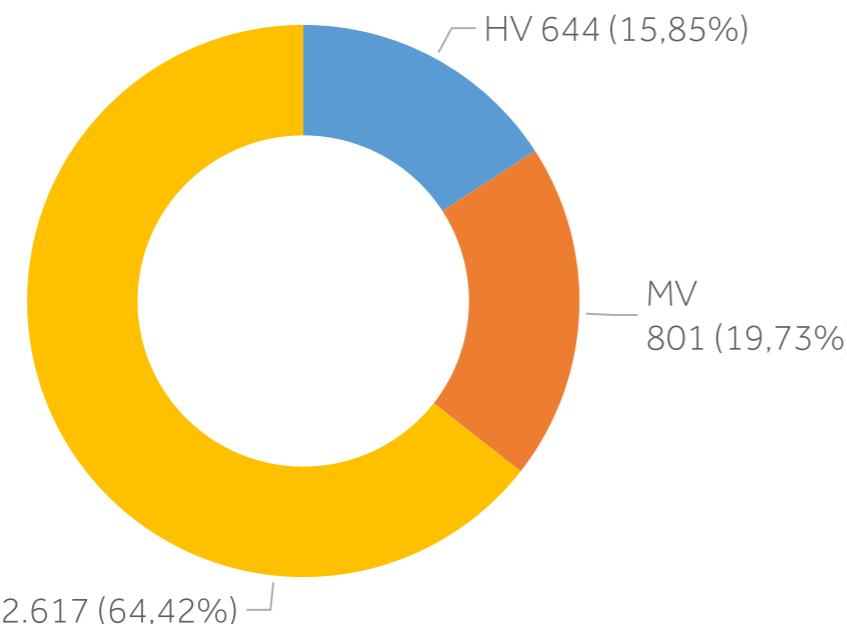
EVOLUTION OF MARKET SHARE OF LOAD REPRESENTATIVES (%)

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

Annex 1.6



DEMAND PER VOLTAGE LEVEL (GWh/%)

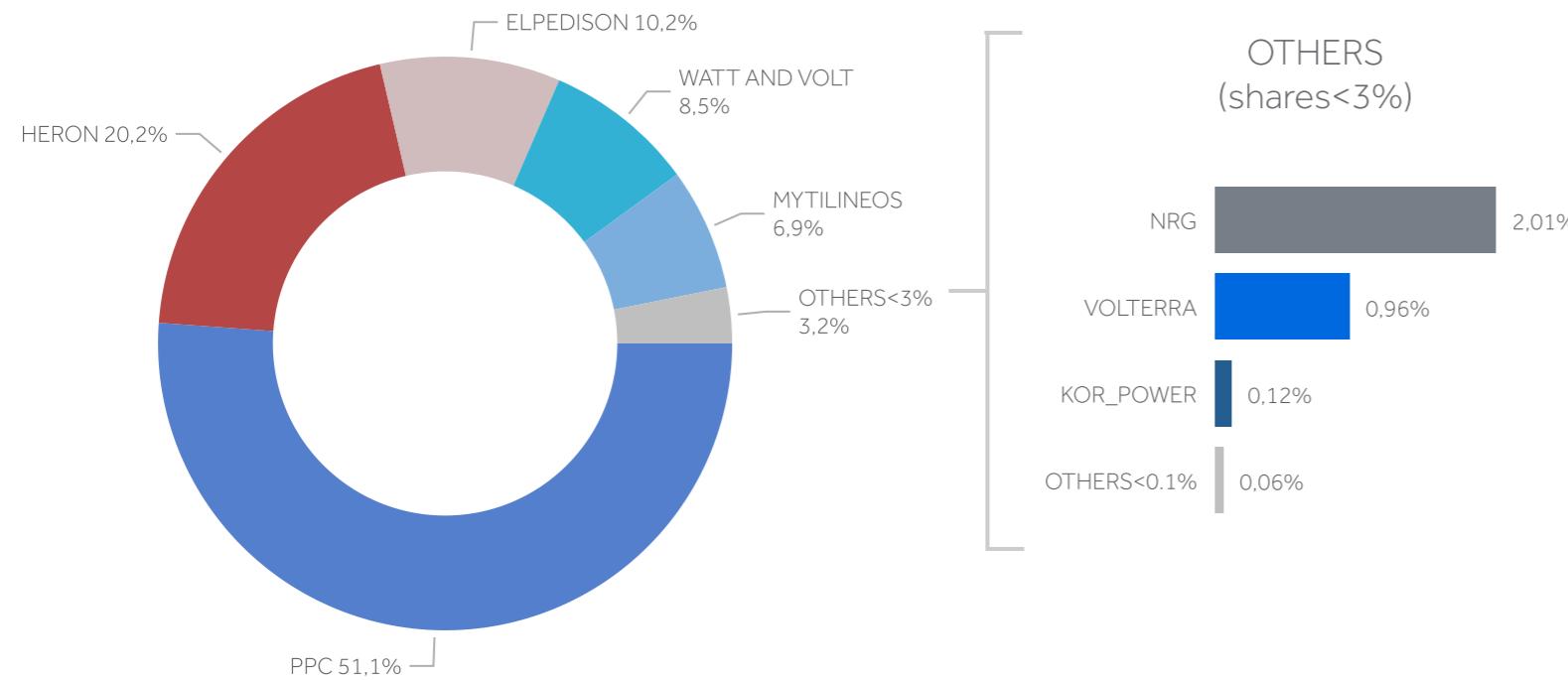


Notes

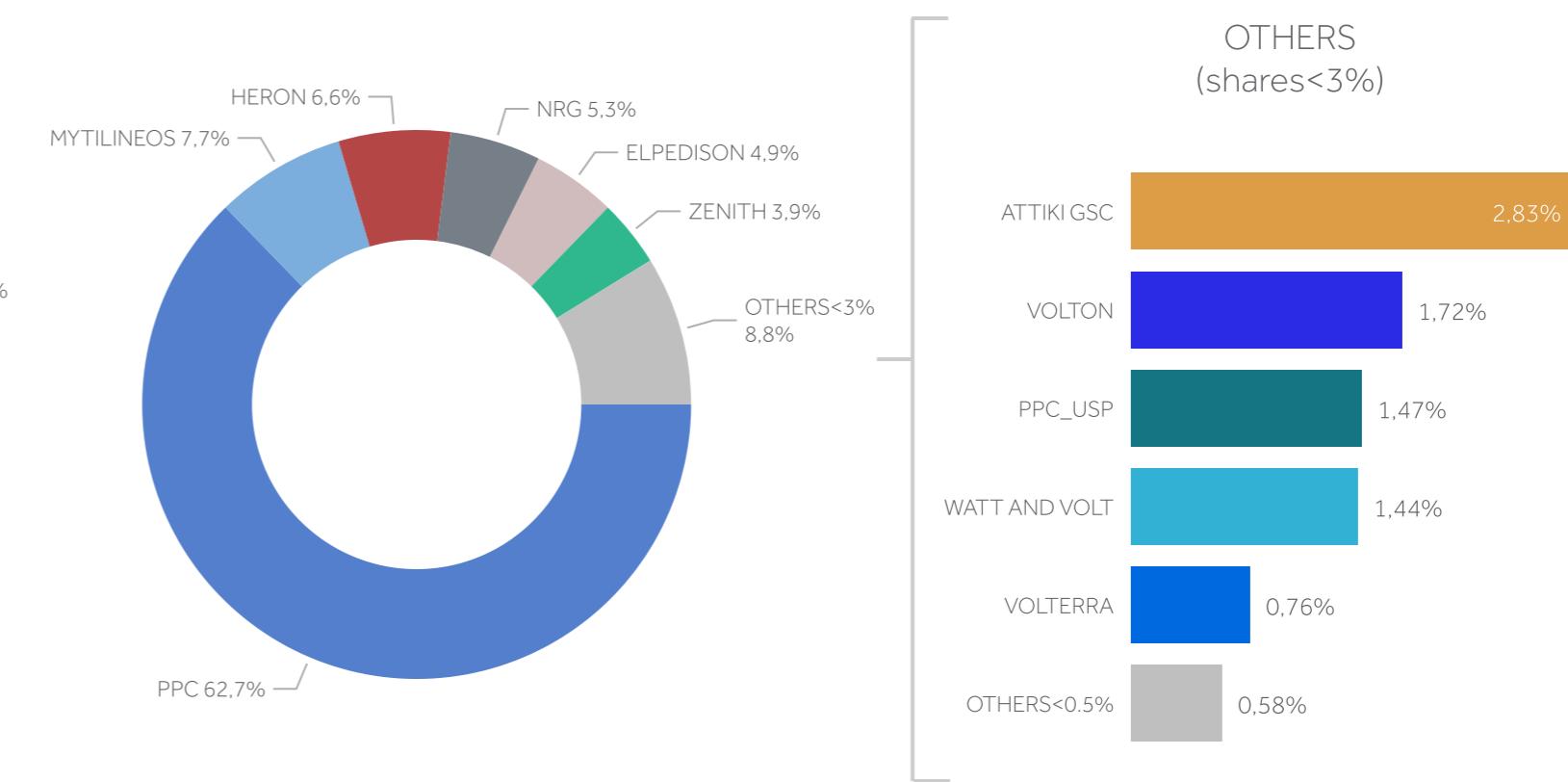
- Data used for the calculation of the shares of the representatives include:
 - Self-supplied consumers and producers representing the auxiliary loads of their production units.
 - Consumption of Low Voltage consumers is based on a preliminary estimation of the Network Operator.
- Values in GWh are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

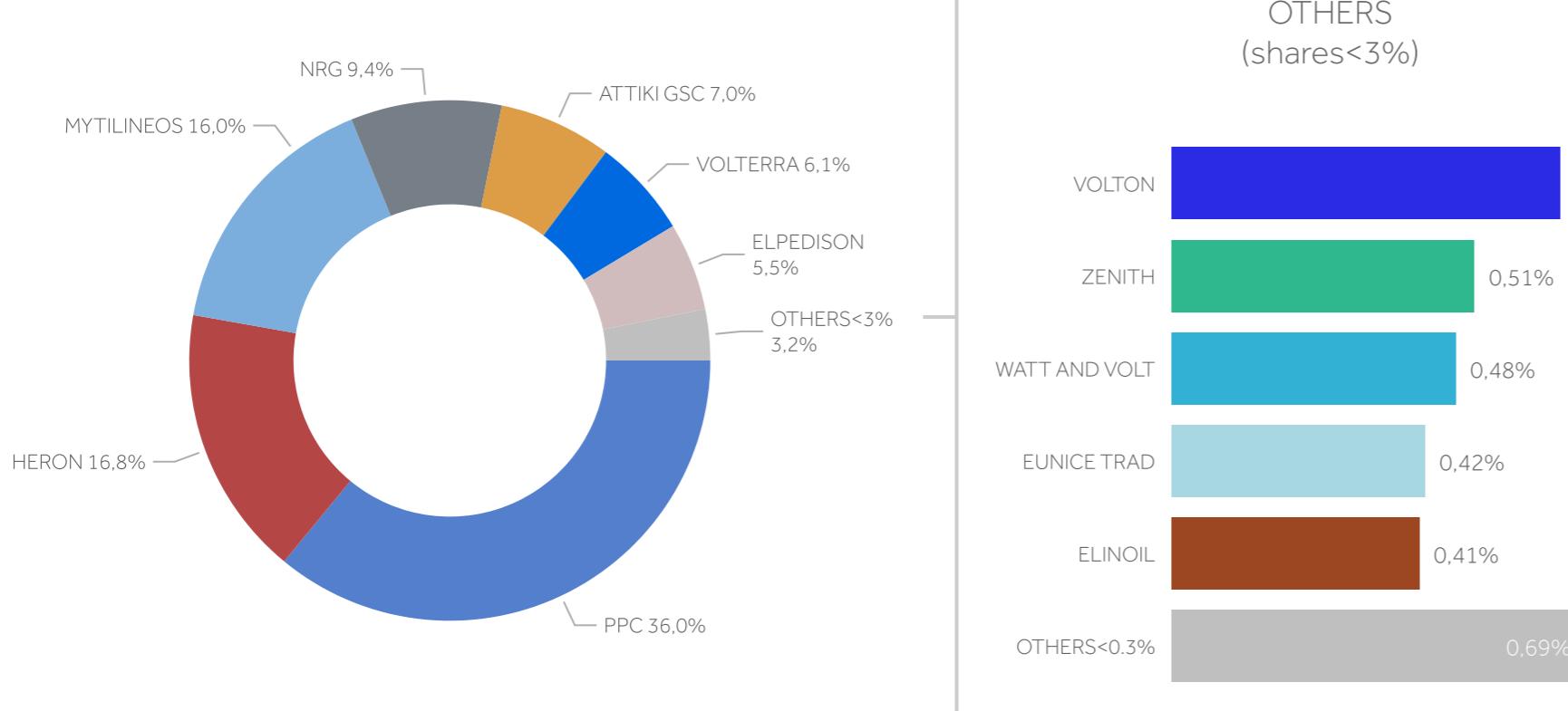
MARKET SHARE OF LOAD REPRESENTATIVES IN HV (%)  Annex 1.7



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.

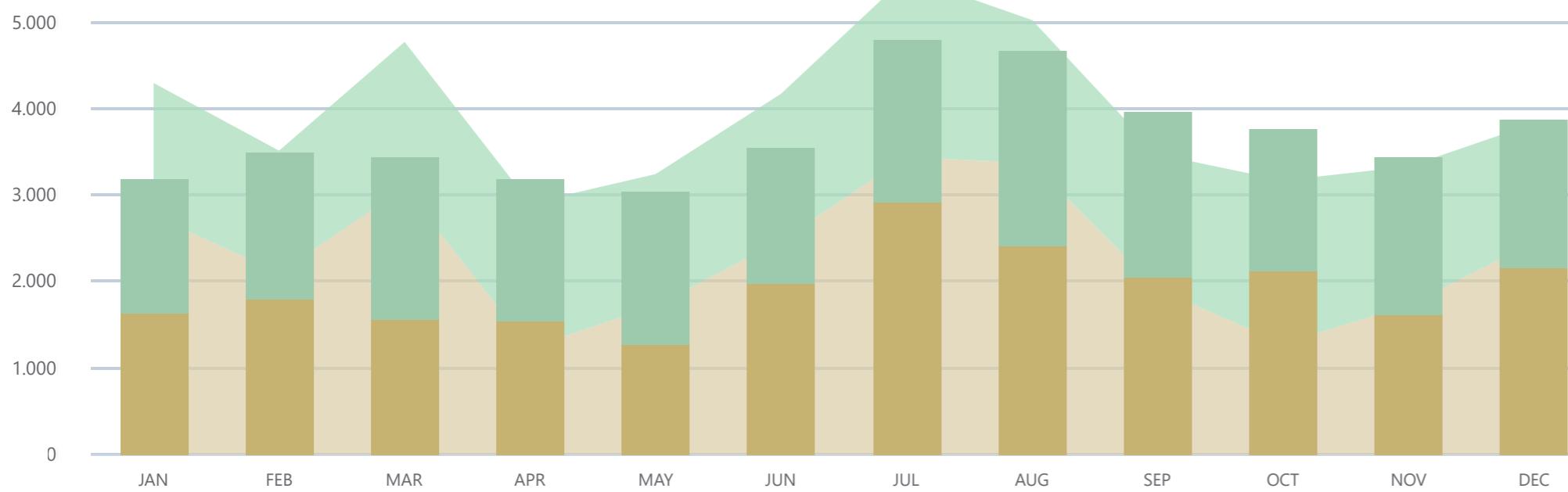
Analysis of Net Generation

ESTIMATION OF NET GENERATION (GWh)

Annex 2.1

2022 CONVENTIONAL
2023 GENERATION

2022 RES
2023 GENERATION



Total Net Generation

3.888 GWh

↑ 1,59%

Variation in comparison to the same month of the previous year



Thermal Generation



Hydro Generation



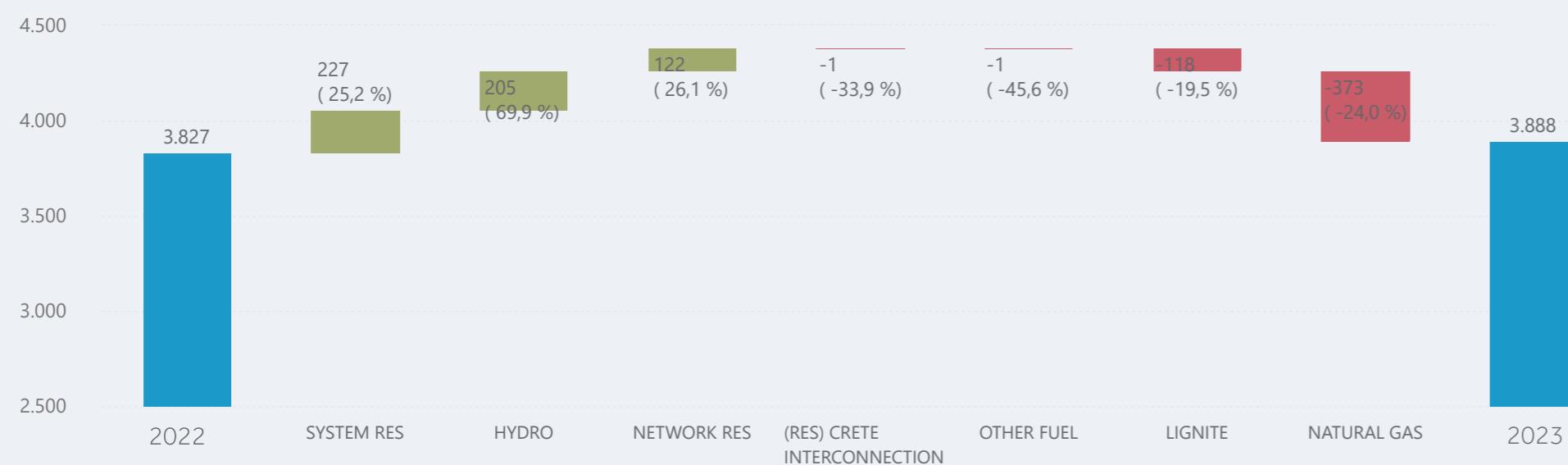
RES Generation

42,98%

12,84%

44,18%

VARIATION OF NET GENERATION (GWh) December 2022 - December 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.

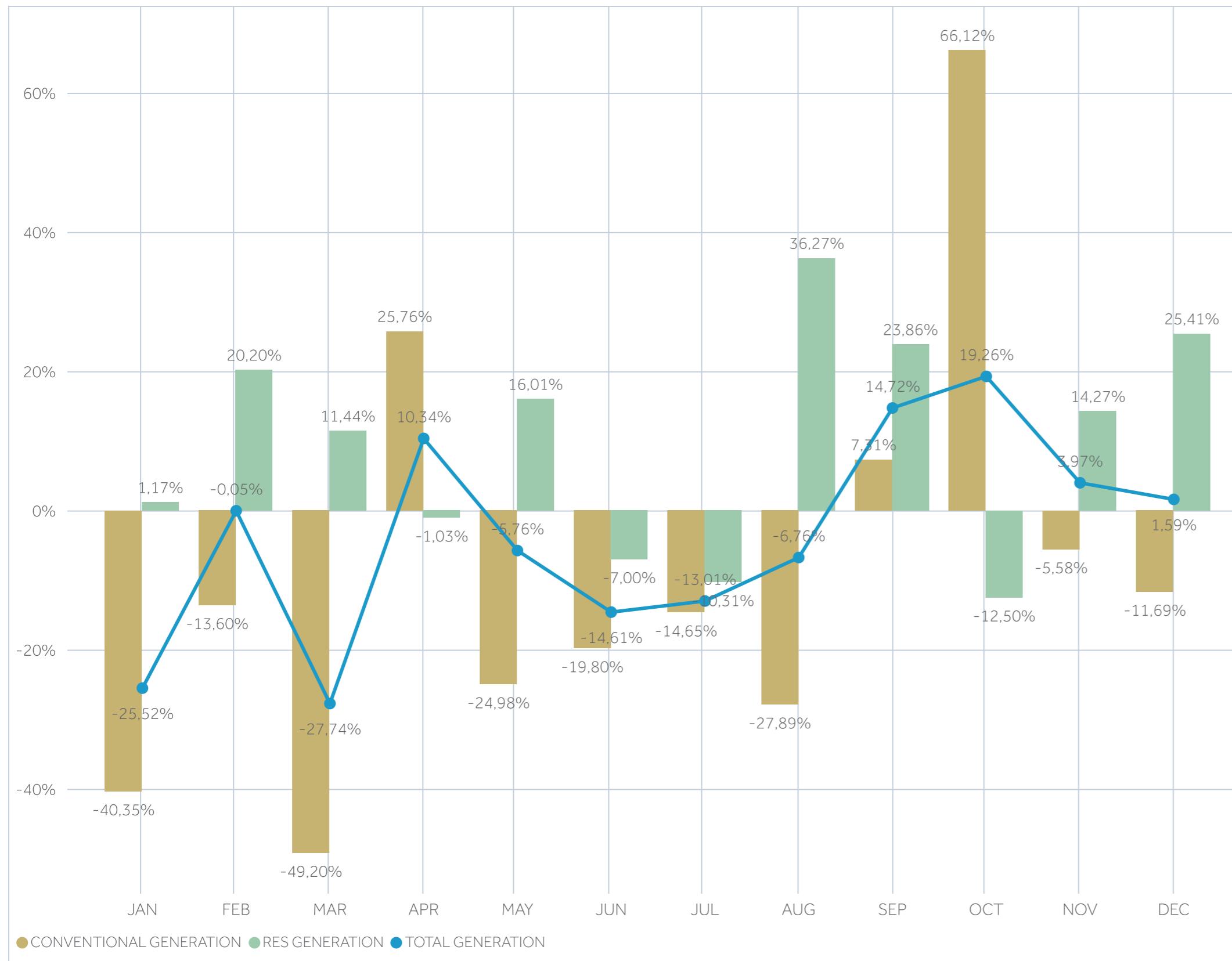
Conventional Generation includes the generation of large scale hydro units, as well as the generation of dispatchable co-generation units that has not been characterised as high efficiency Co-Generation.

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.

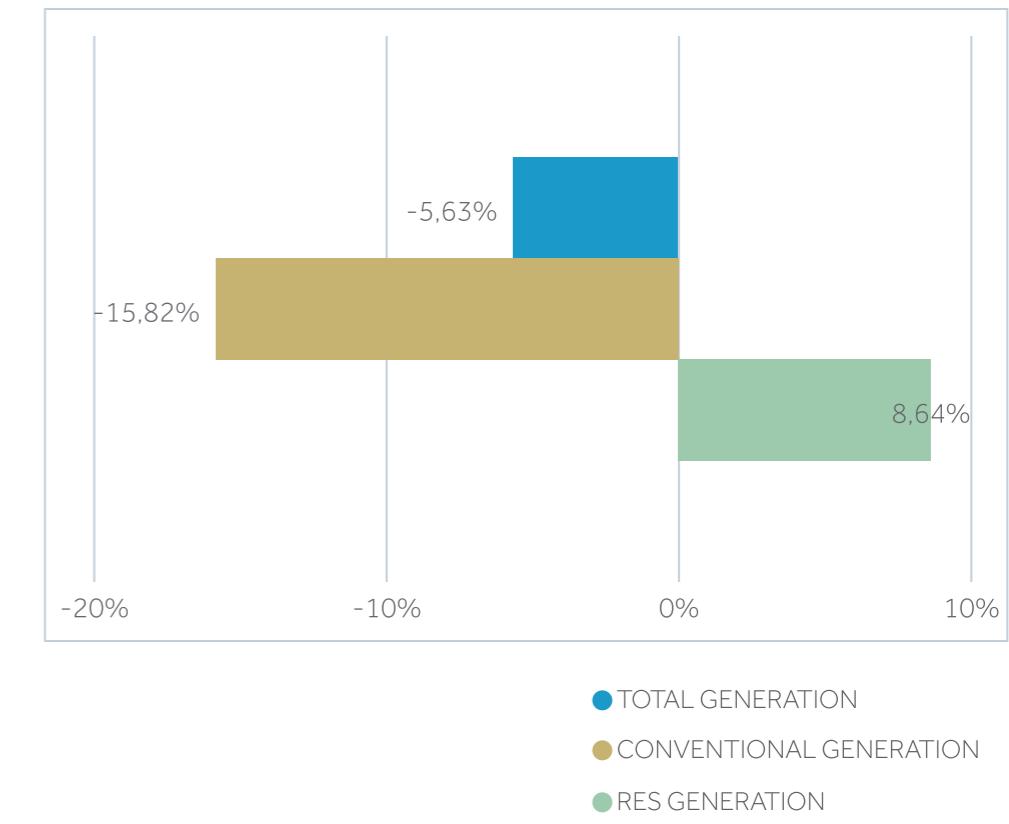
Variation of Generation in comparison to the previous year

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

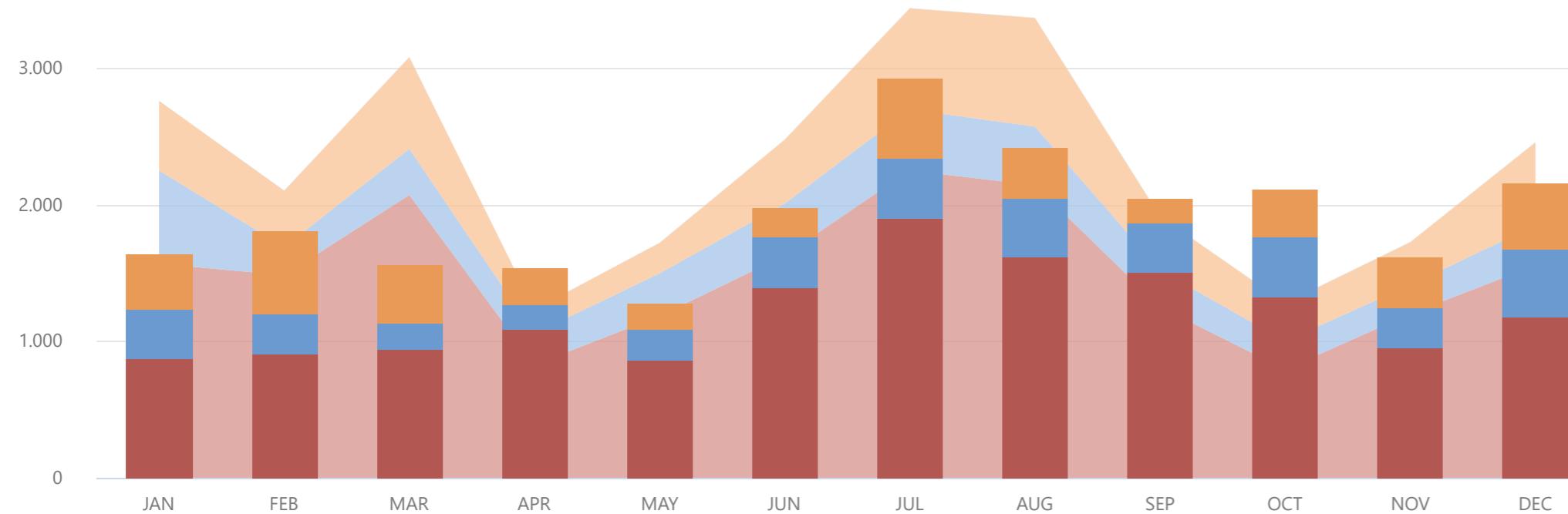
- generation in the point of injection to the System from RES generation connected directly to System substations (System RES)
- generation from dispatchable co-generation units that has been characterised as high efficiency Co-Generation (System RES)
- estimation of generation in the Distribution Network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



OTHER FUEL

2022 2023

LIGNITE

2022 2023

HYDRO

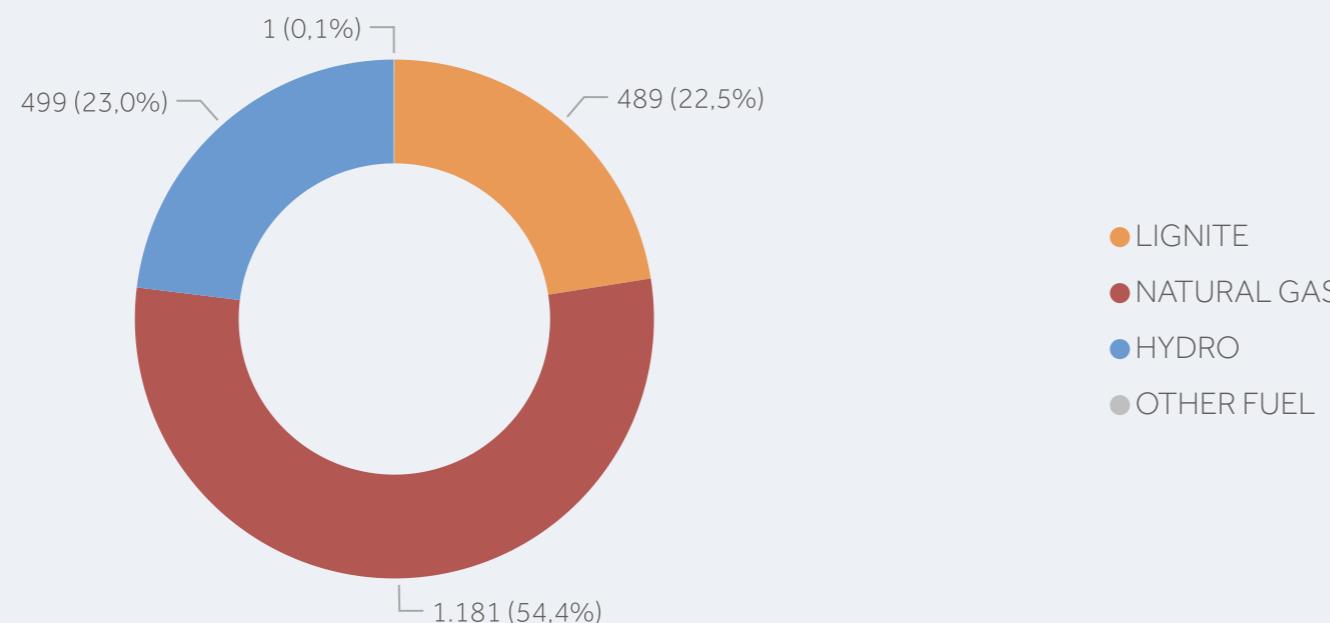
2022 2023

NATURAL GAS

2022 2023

CONVENTIONAL GENERATION MIX PER FUEL CATEGORY (GWh)

December 2023



Notes

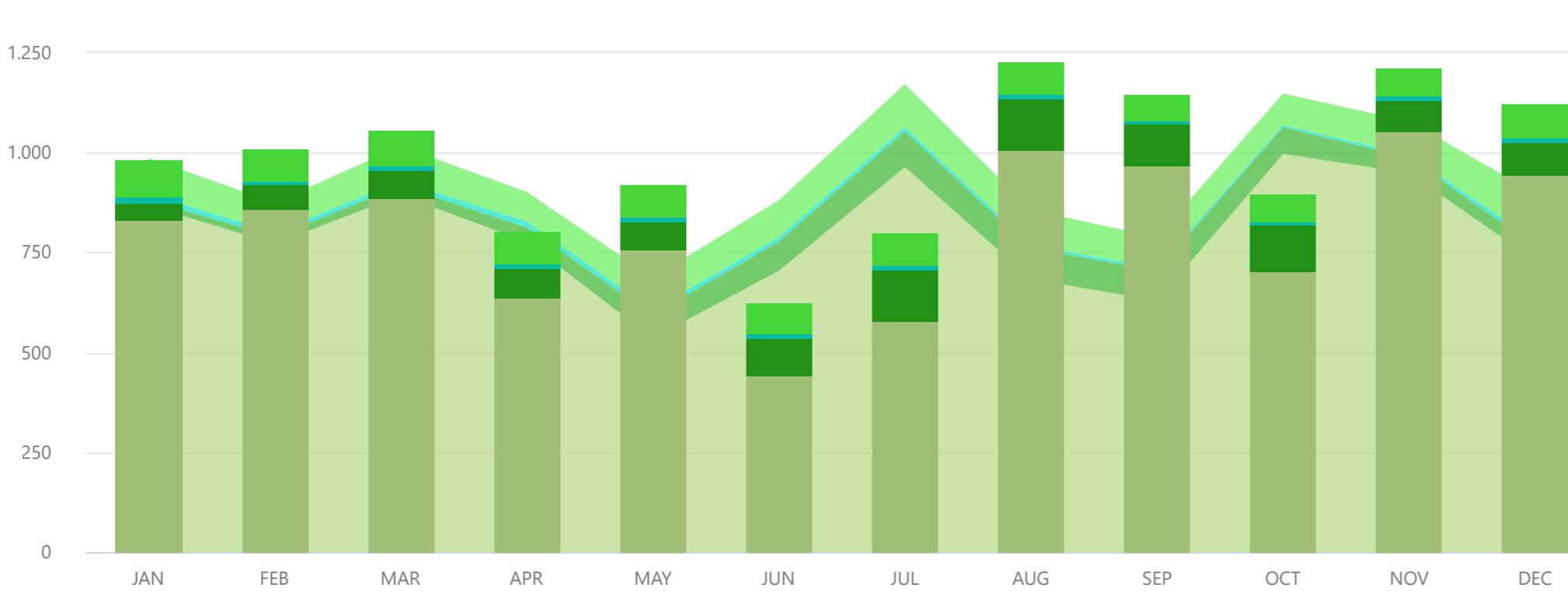
- Generation refers to the injection point in the System.
- Conventional Generation includes the generation of large scale hydro units, as well as the generation of dispatchable co-generation units that has not been characterised as high efficiency Co-Generation.

System RES Generation Mix

EVOLUTION OF SYSTEM RES GENERATION MIX (GWh)

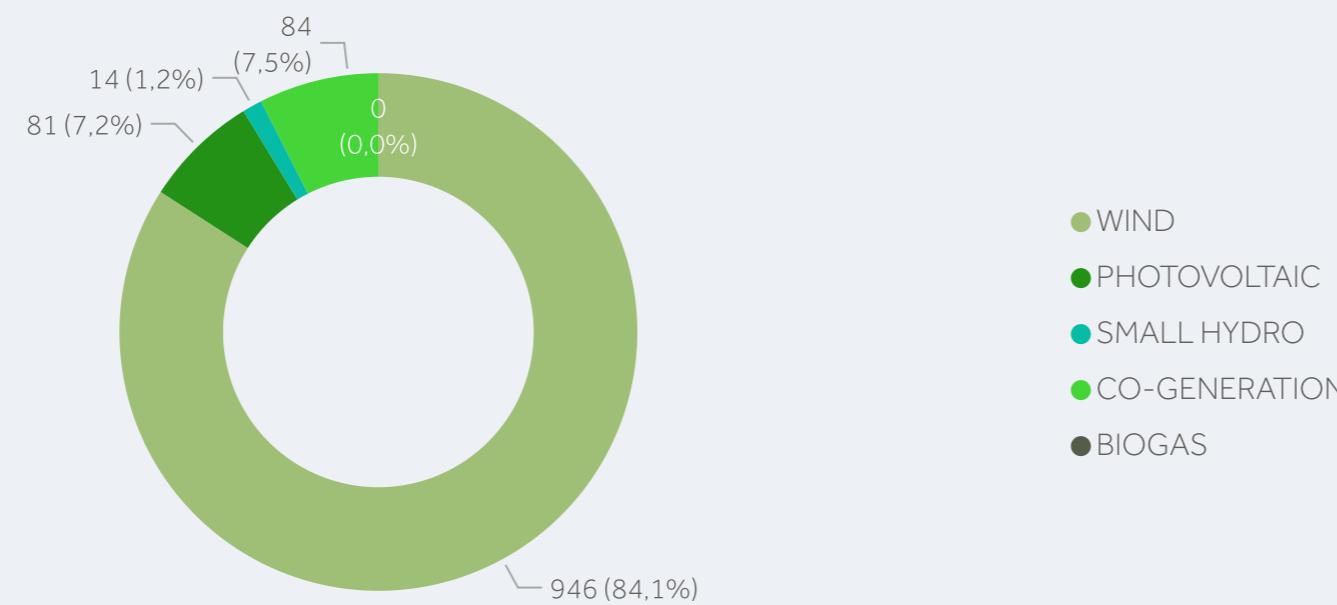


Annex 2.3



SYSTEM RES GENERATION MIX PER RES TECHNOLOGY (GWh)

December 2023



Notes

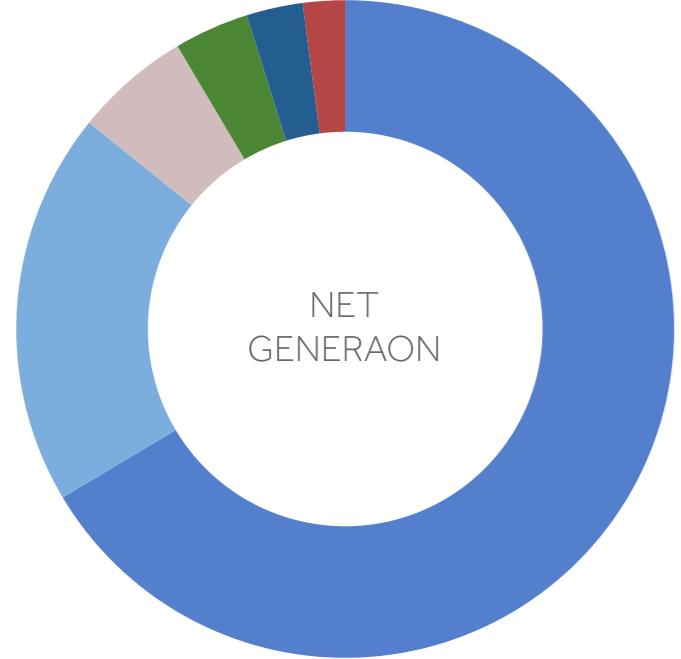
RES Generation includes:

- 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

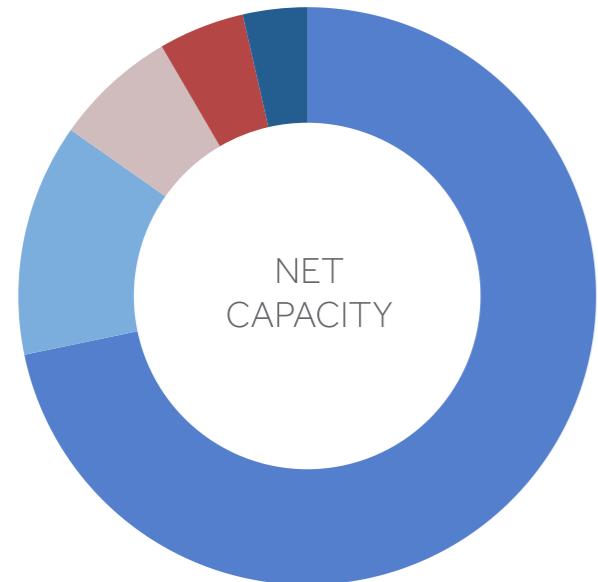
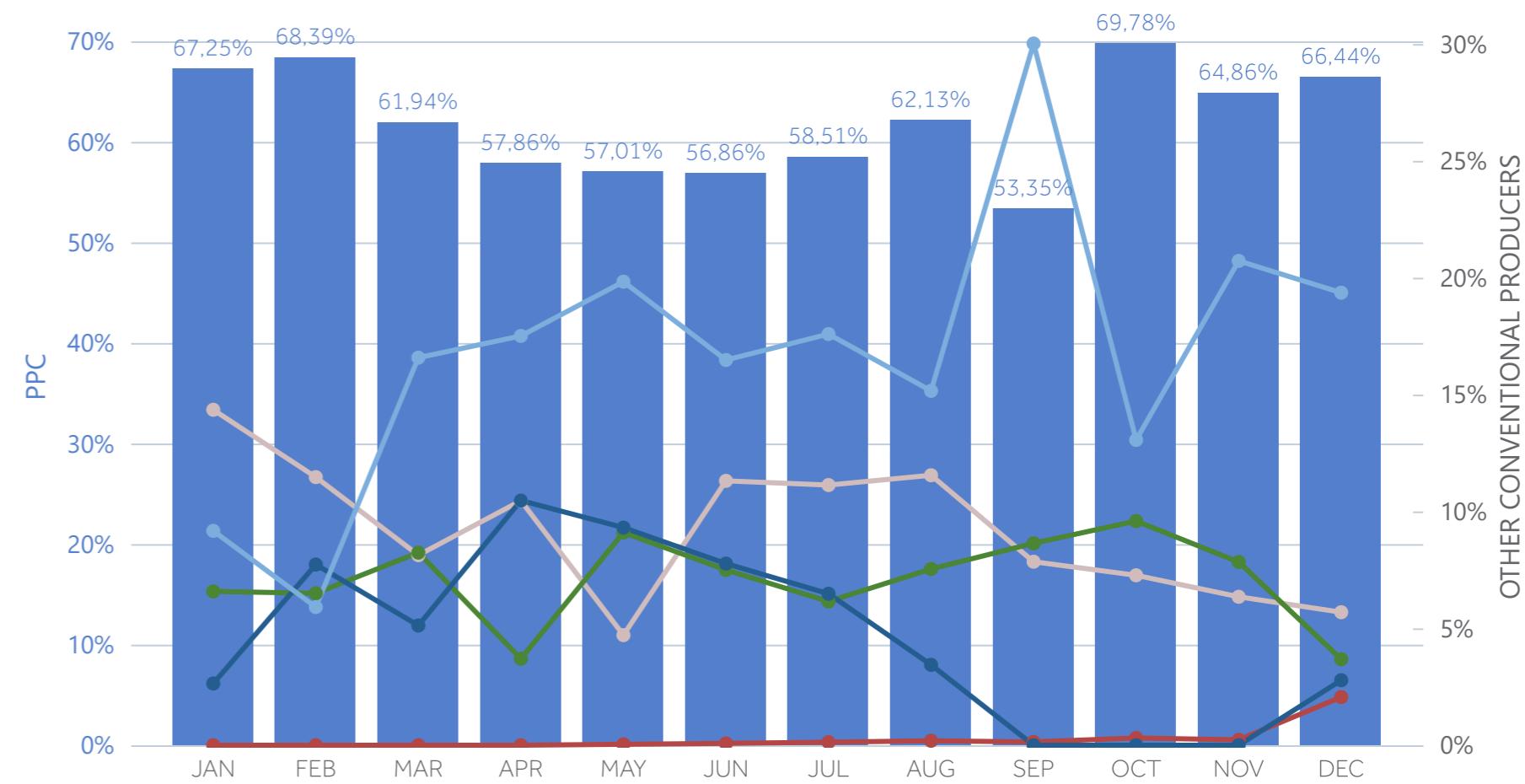
NET GENERATION (GWh) - NET CAPACITY (MW)

December 2023

 Annex 2.4

▼ GWh	%	PRODUCER
1.482,20	66,44%	PPC
431,83	19,36%	MYTILINEOS
126,87	5,69%	ELPEDISON
81,99	3,68%	HERON 2 VIOTIAS
61,99	2,78%	KORINTHOS POWER
46,00	2,06%	HERON

PERCENTAGE OF NET CONVENTIONAL GENERATION IN THE SYSTEM (%)

 Annex 2.5

▼ MW	%	PRODUCER
8.670,00	71,74%	PPC
1.572,70	13,01%	MYTILINEOS
828,00	6,85%	ELPEDISON
581,46	4,81%	HERON
433,46	3,59%	KORINTHOS POWER

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.
- The participant Heron 2 Viotias was deactivated on 21/12/2023, due to a merger with absorption by Heron of the relevant subsidiary. For presentation purposes, the net capacity of its production unit in the respective diagram is included in the net capacity of Heron .

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

Annex 2.6

NET GENERATION (GWh)

AGRAS	2,24
AOOS	30,67
ASOMATA	9,54
EDESSAIOS	1,90
ILARIONAS	21,22
KASTRAKI	97,90
KREMASTA	139,24
LADONAS	13,67
PLASTIRAS	2,49
PLATANOVRYSI	10,13
POLYFYTO	29,50
POURNARI1	31,61
POURNARI2	4,96
SFIKIA	26,91
STRATOS1	44,95
THESAVROS	32,27
AGIOS DIMITRIOS1	0,00
AGIOS DIMITRIOS2	0,00
AGIOS DIMITRIOS3	98,86
AGIOS DIMITRIOS4	50,80
AGIOS DIMITRIOS5	112,14
MEGALOPOLI3	0,00
MEGALOPOLI4	23,36
MELITI	0,00
PROLEMAIDA5	203,36
AGIOS NIKOLAOS2	251,11
ALIVERI5	151,08
ALOUMINIO	88,10
ELPEDISON THESS	126,87
ELPEDISON THISVI	0,00
HERON CC	125,74
KOMOTINI	23,65
KORINTHOS POWER	61,99
LAVRIO4	26,49
LAVRIO5	54,31
MEGALOPOLIS	238,95
PROTERGIA CC	92,61
HERON1	0,94
HERON2	0,64
HERON3	0,67

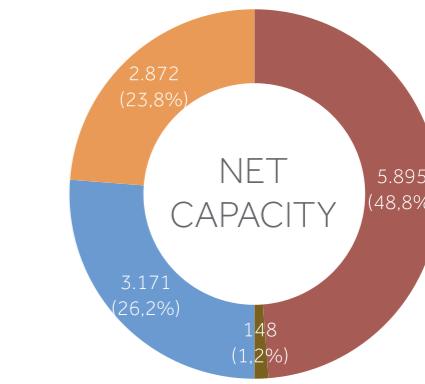
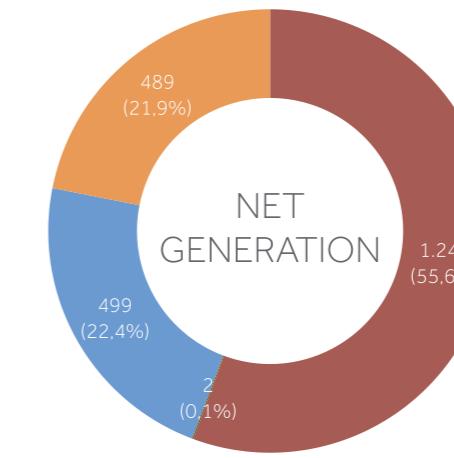
NET CAPACITY (MW)

50	50	6,02%
210	210	19,63%
108	108	11,87%
19	19	13,42%
153	153	18,64%
320	320	41,12%
437	437	42,81%
70	70	26,24%
130	130	2,58%
116	116	11,74%
375	375	10,57%
300	300	14,16%
34	34	19,84%
315	315	11,48%
150	150	40,28%
384	384	11,30%
274	274	0,00%
274	274	0,00%
283	283	46,95%
283	283	24,13%
342	342	44,07%
255	255	0,00%
256	256	12,26%
289	289	0,00%
616	616	44,37%
806	806	41,88%
417	417	48,70%
334	334	35,46%
418	418	40,80%
410	410	0,00%
434	434	38,97%
476	476	6,67%
433	433	19,22%
536	536	6,64%
387	387	18,86%
811	811	39,60%
433	433	28,77%
49	49	2,56%
49	49	1,75%
49	49	1,82%

UTILISATION COEFFICIENT (%)

6,02%
19,63%
11,87%
13,42%
18,64%
41,12%
42,81%
26,24%
2,58%
11,74%
10,57%
14,16%
19,84%
11,48%
40,28%
11,30%
0,00%
0,00%
46,95%
24,13%
44,07%
0,00%
12,26%
0,00%
44,37%
41,88%
48,70%
35,46%
40,80%
0,00%
38,97%
6,67%
19,22%
6,64%
18,86%
39,60%
28,77%
2,56%
1,75%
1,82%

	Net Generation (GWh)	Net Capacity (MW)	Utilisation Coefficient (%)
N.G. Open Cycle	2,25	148	2,0%
Hydro	499	3.171	21,2%
Lignite	489	2.872	22,9%
N.G. Combined Cycle	1.241	5.895	28,3%
	2.231	12.086	24,8%



Notes

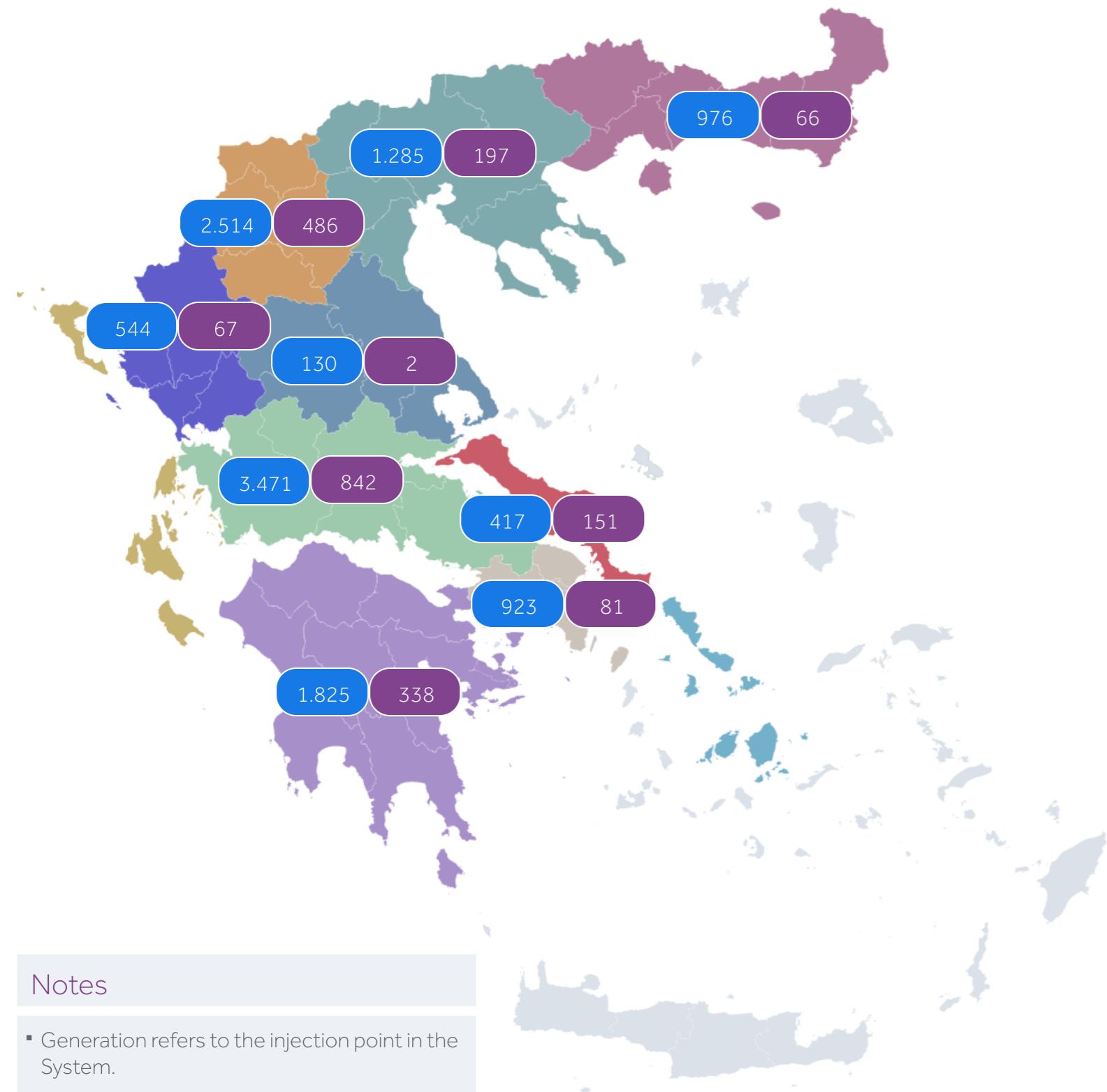
- Generation refers to the injection point in the System.
- Generation by dispatchable co-generation units that has not been characterised as high efficiency Co-Generation is the total generation (conventional and Co-Generation).
- Utilisation coefficient is the ratio of the monthly electricity generation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

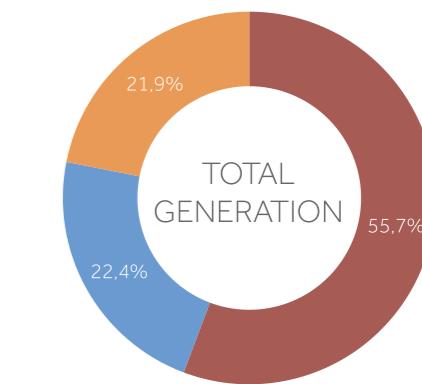
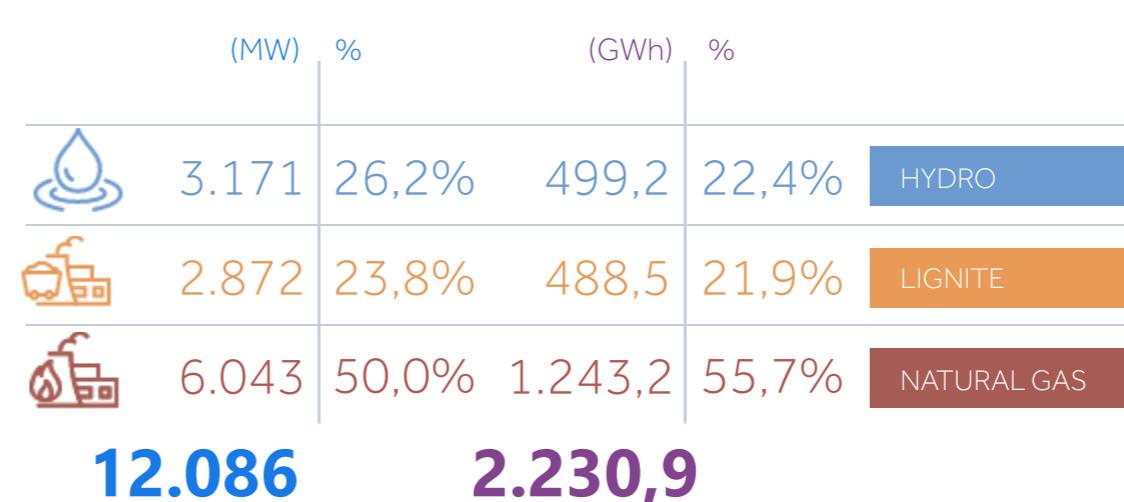
Q Annex 2.7

GEOGRAPHICAL DISTRIBUTION OF CONVENTIONAL GENERATION

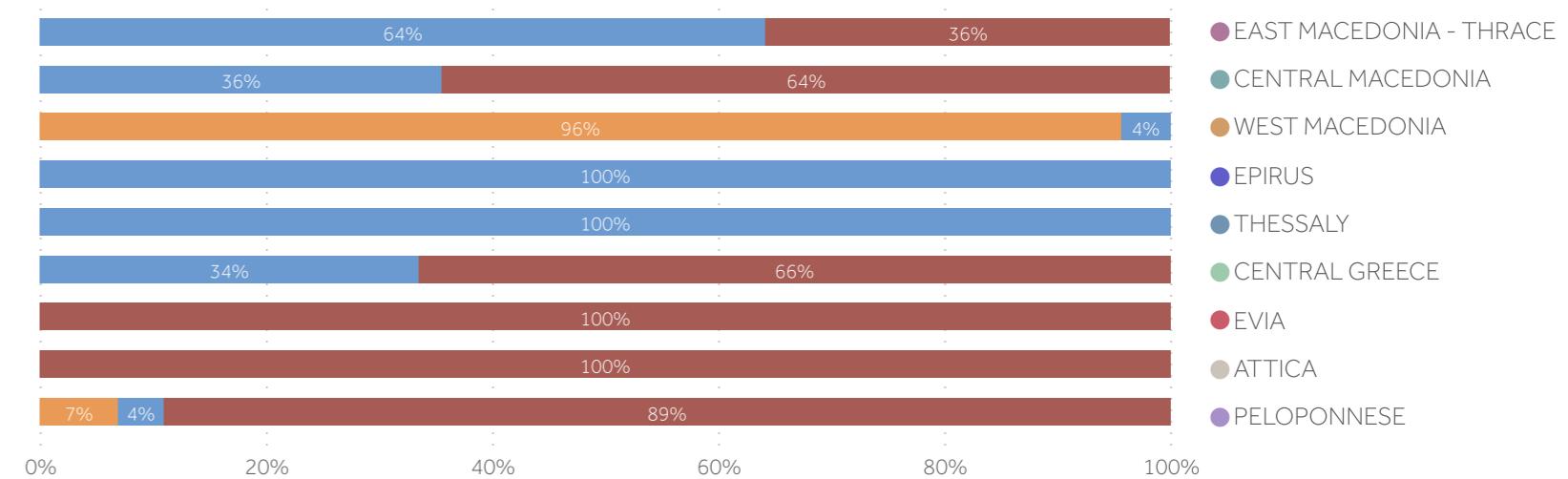
NET CAPACITY (MW) | NET GENERATION (GWh)



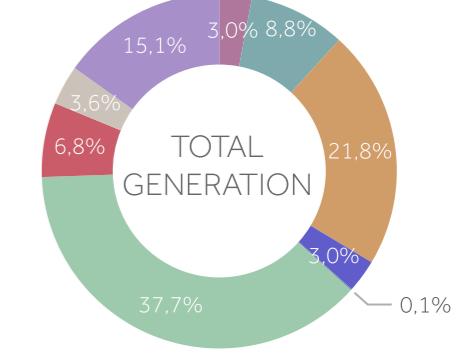
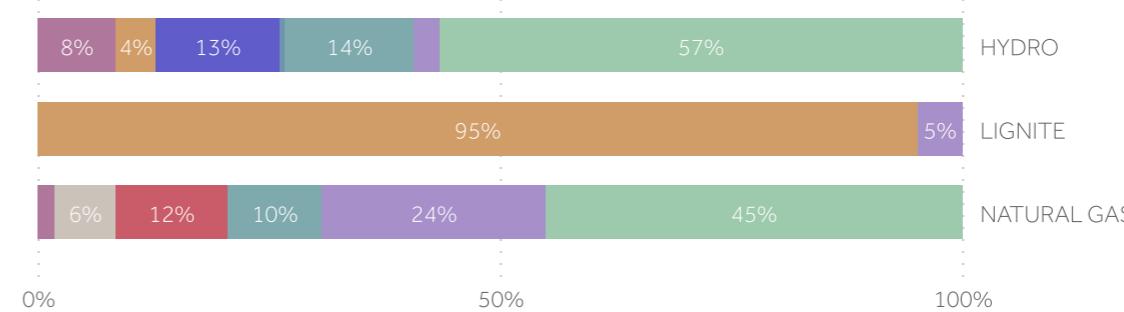
ENERGY MIX OF CONVENTIONAL GENERATION



per geographical area (%)



GEOGRAPHICAL DISTRIBUTION OF CONVENTIONAL GENERATION per fuel category (%)



Notes

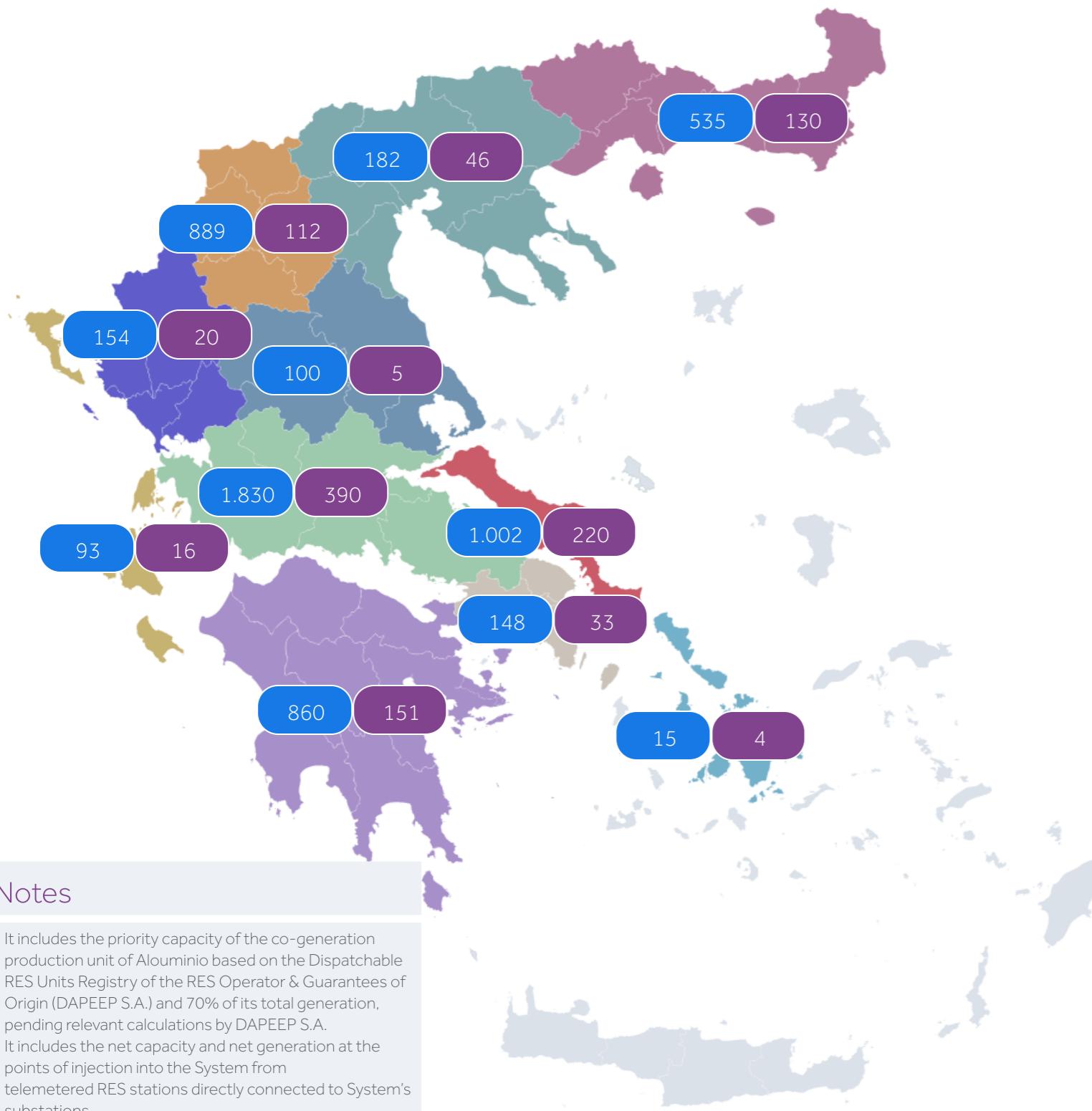
- Generation refers to the injection point in the System.
- Generation by dispatchable co-generation units that has not been characterised as high efficiency Co-Generation, is the total generation (conventional and Co-Generation).

Geographical Distribution of System RES Generation

Annex 2.8

GEOGRAPHICAL DISTRIBUTION OF SYSTEM RES GENERATION

NET CAPACITY (MW) | NET GENERATION (GWh)



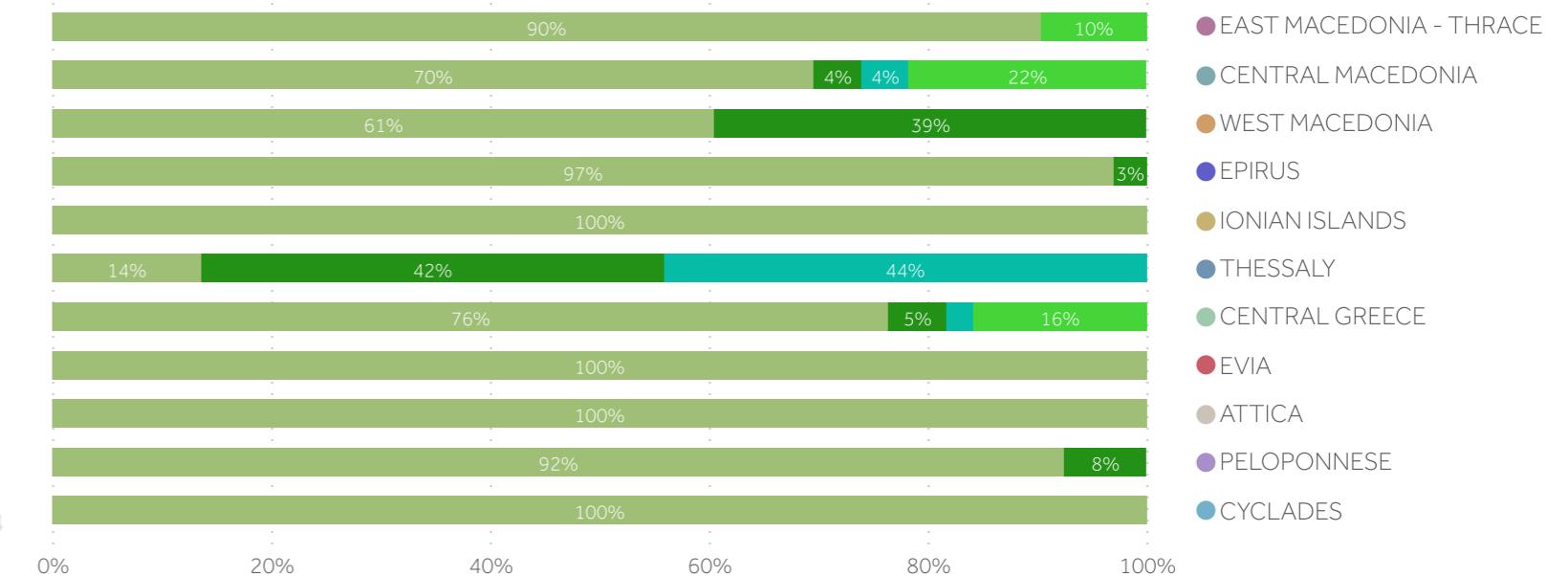
Notes

- 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)	%	
	4.531	78,0%	946,2	84,1%	WIND
	1.071	18,4%	80,8	7,2%	PHOTOVOLTAIC
	40	0,7%	13,9	1,2%	SMALL HYDRO
	167	2,9%	84,2	7,5%	CO-GENERATION
	2	0,03%	0,0	0,0%	BIOGAS
	5.810		1.125,1		

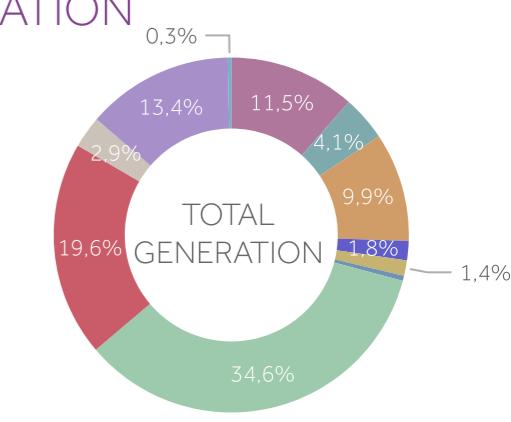
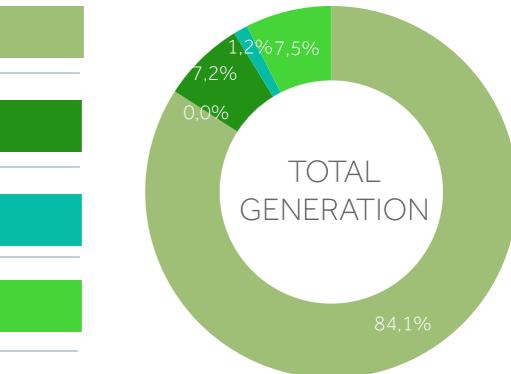
per geographical area (%)



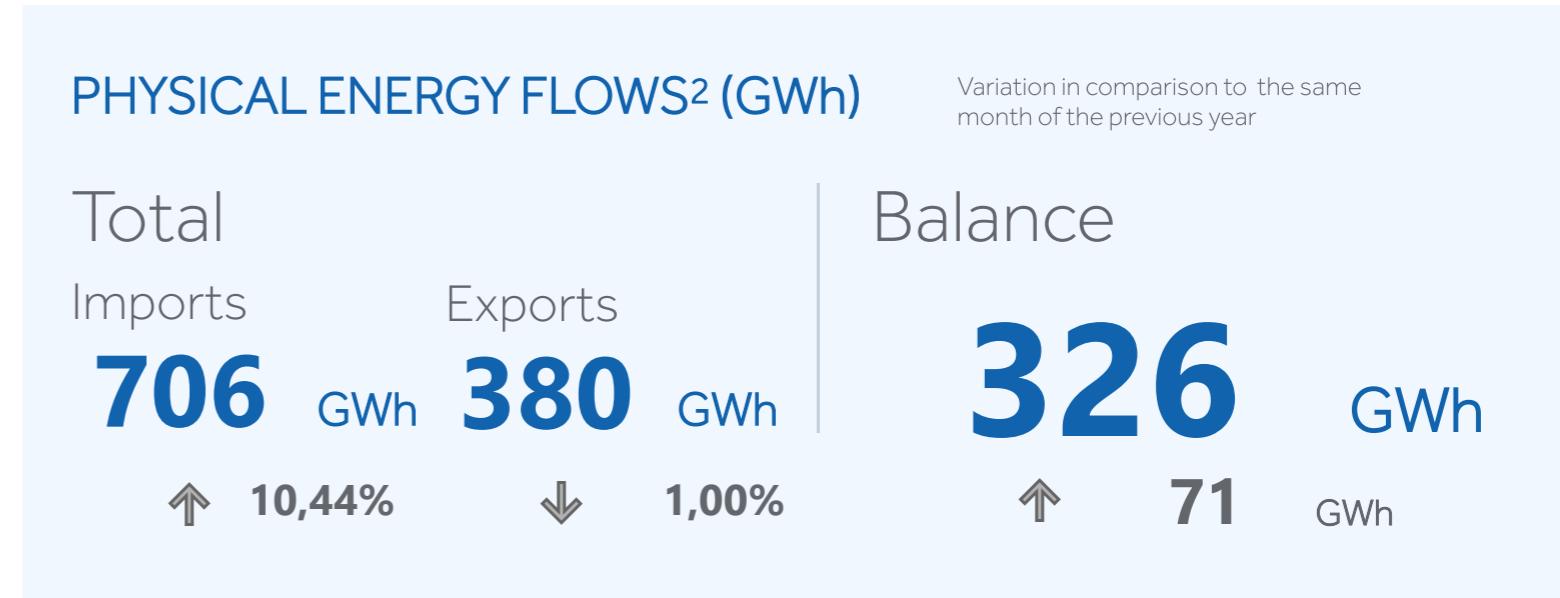
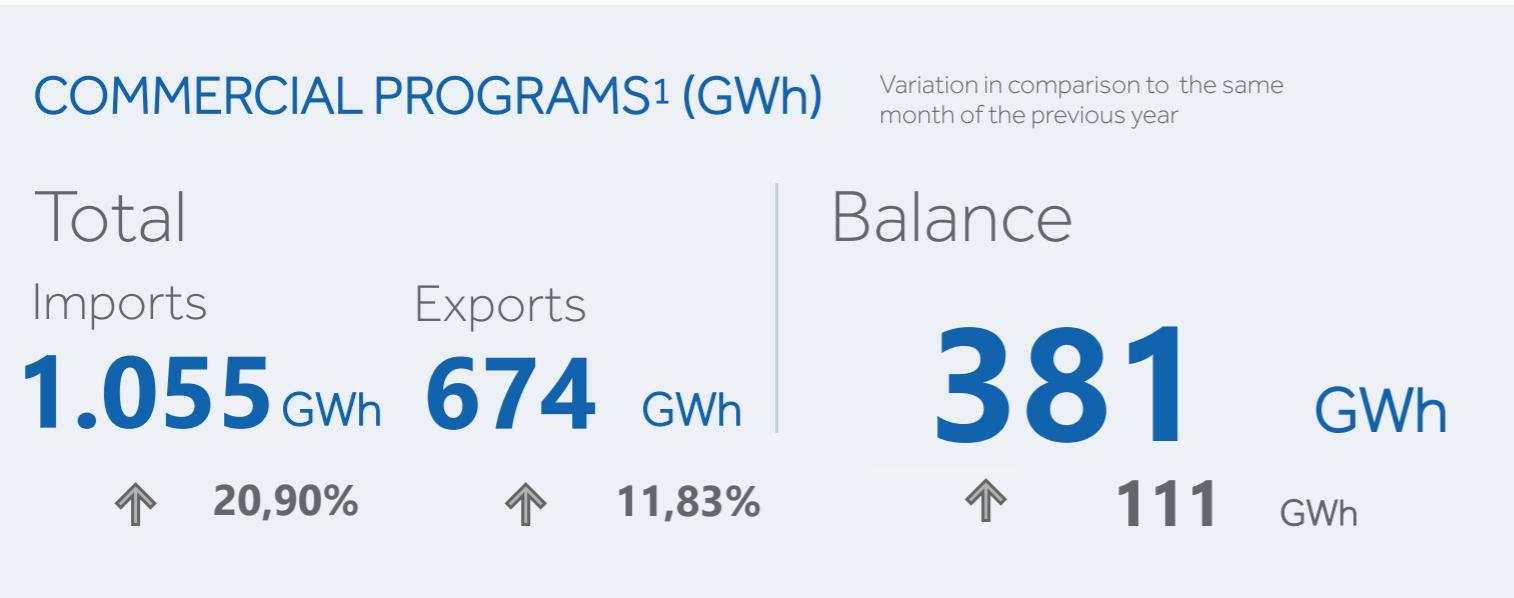
GEOGRAPHICAL DISTRIBUTION OF SYSTEM RES GENERATION

per RES technology (%)

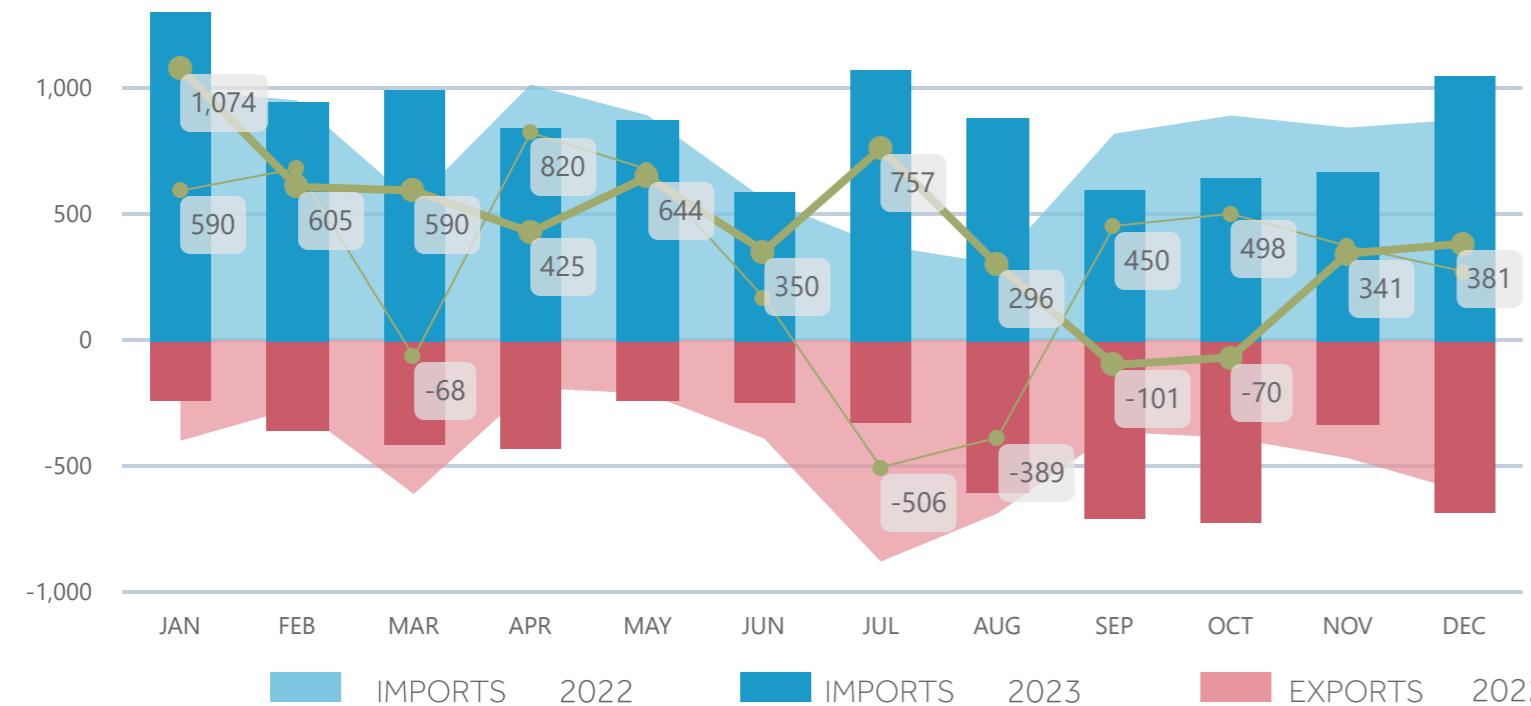
12%	7%	23%	1%	15%	31%	WIND
55%	0%	0%	14%	0%	25%	PHOTOVOLTAIC
17%	14%	0%	0%	0%	69%	SMALL HYDRO
15%	12%	0%	0%	0%	73%	CO-GENERATION
0%	0%	0%	0%	0%	100%	BIOGAS



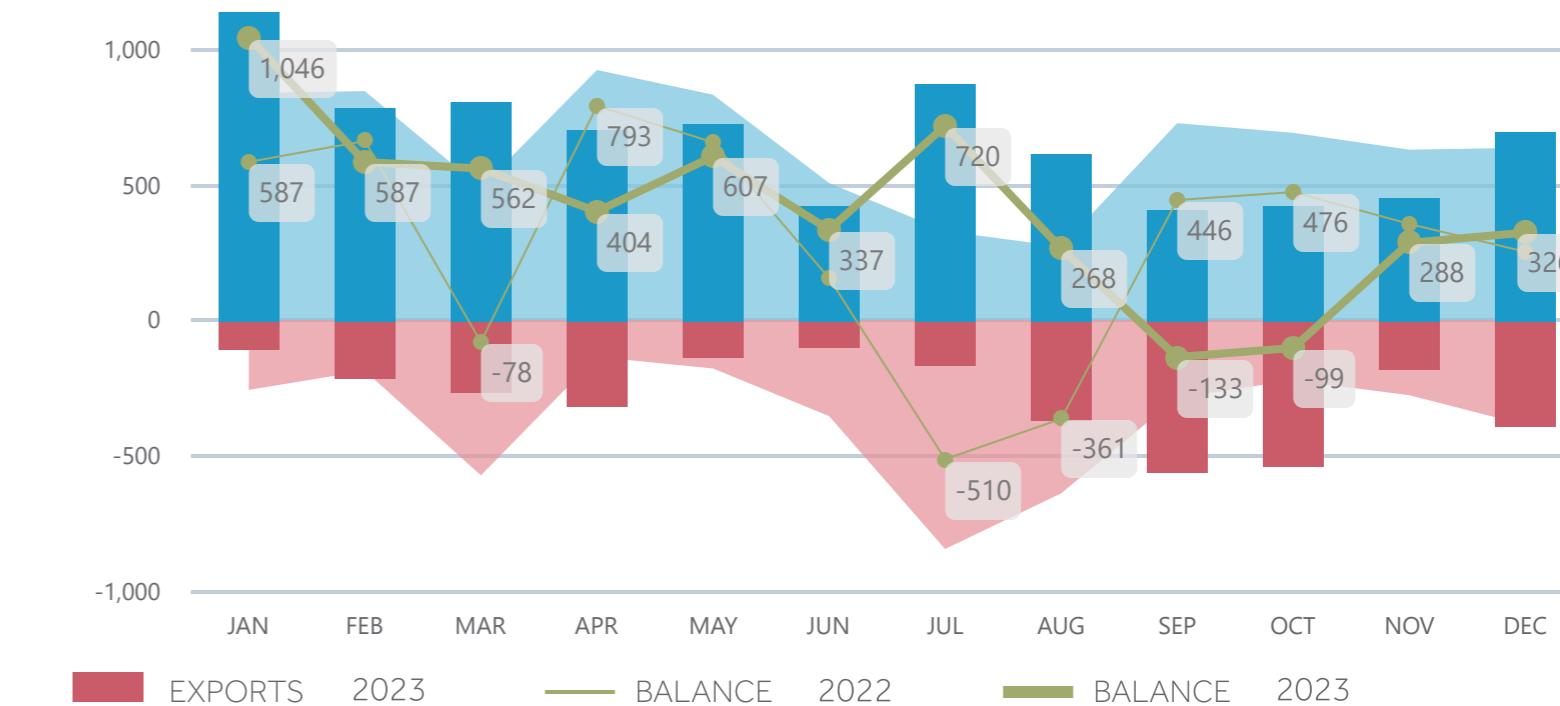
Energy on Interconnections



EVOLUTION OF COMMERCIAL PROGRAMS (GWh) Annex 3.1



EVOLUTION OF PHYSICAL ENERGY FLOWS (GWh) Annex 3.2



Notes

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

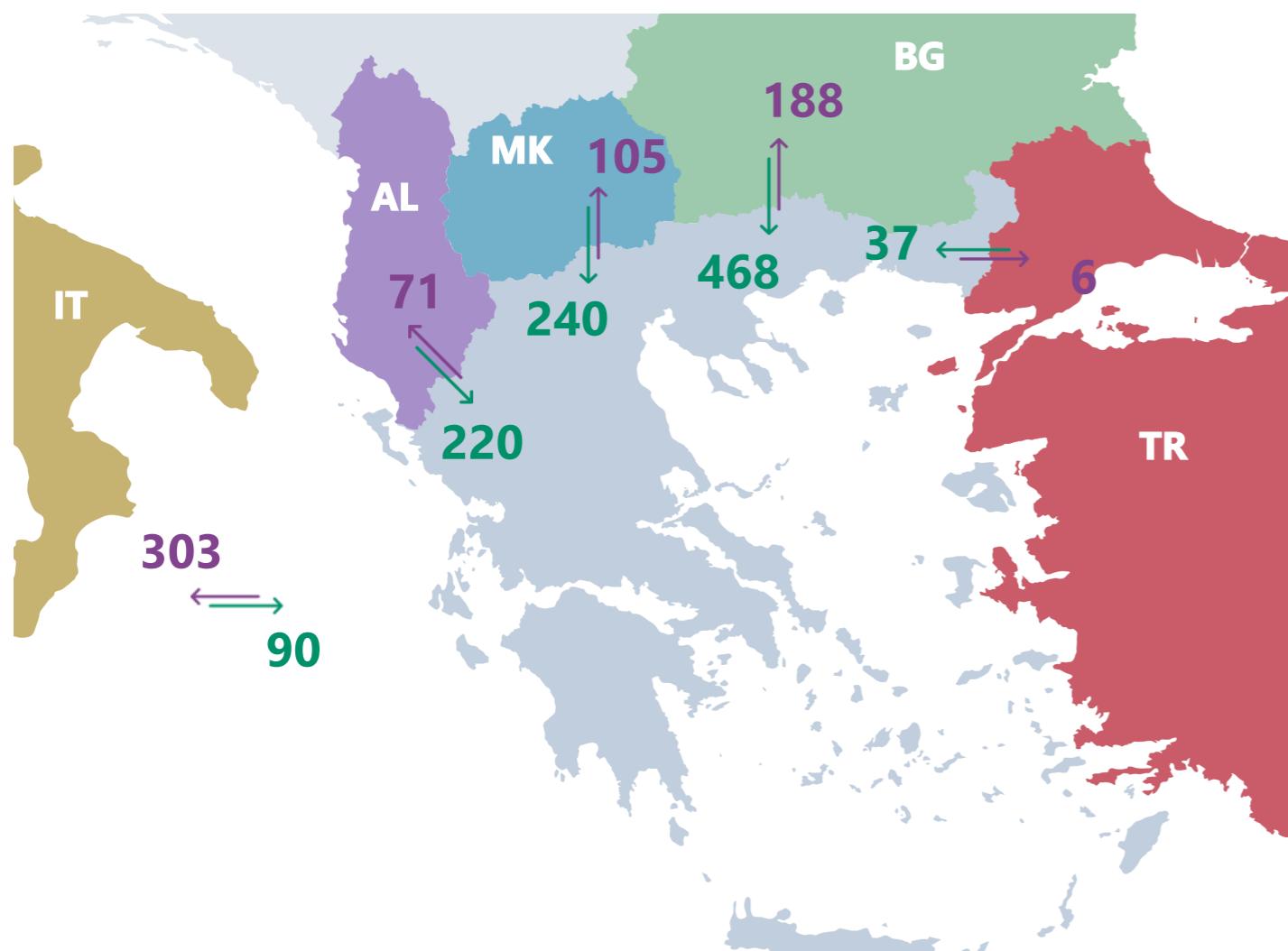
2 Balance of physical energy flows on the interconnections is calculated as the difference "Physical Flow Imports "- "Physical Flow Exports" for all the interconnections.

Commercial Programs per Interconnection

Interconnection Balance

381 GWh **111** GWh

Variation in comparison to
the same month of the
previous year

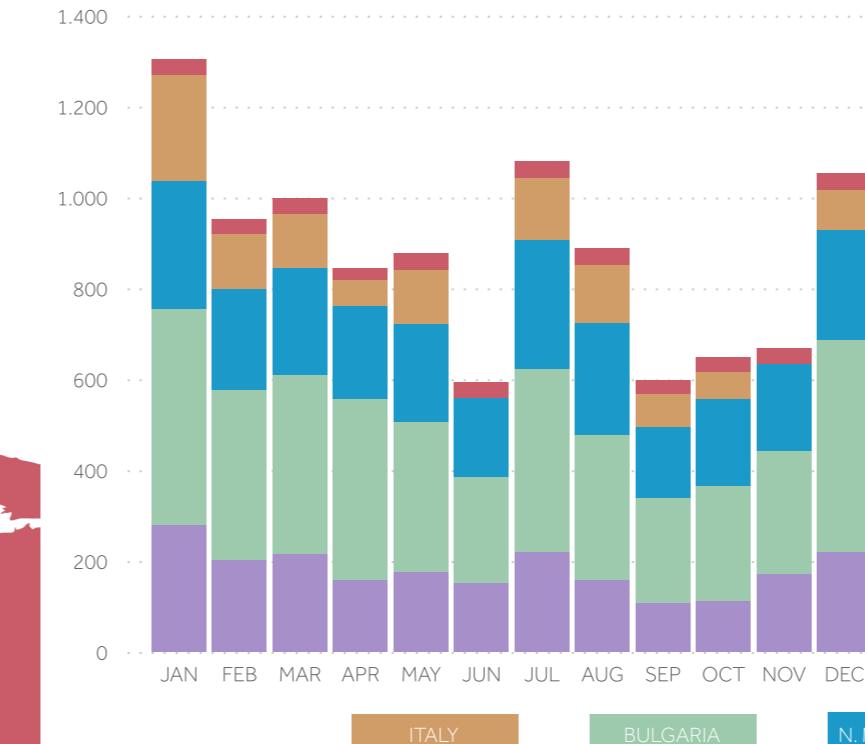


COMMERCIAL PROGRAMS PER INTERCONNECTION

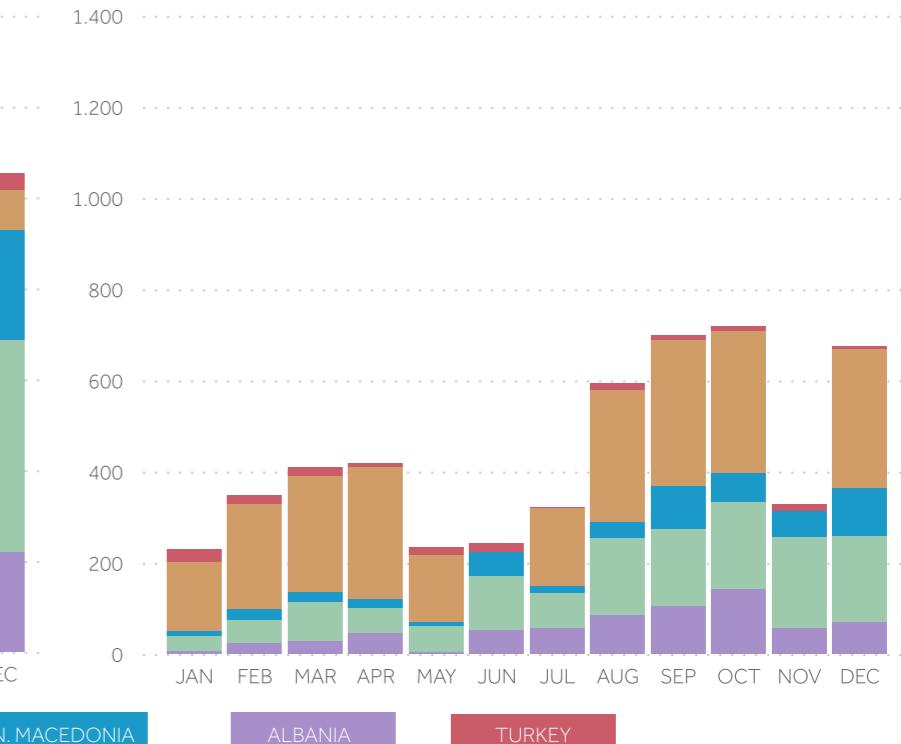


Annex 3.3-3.4

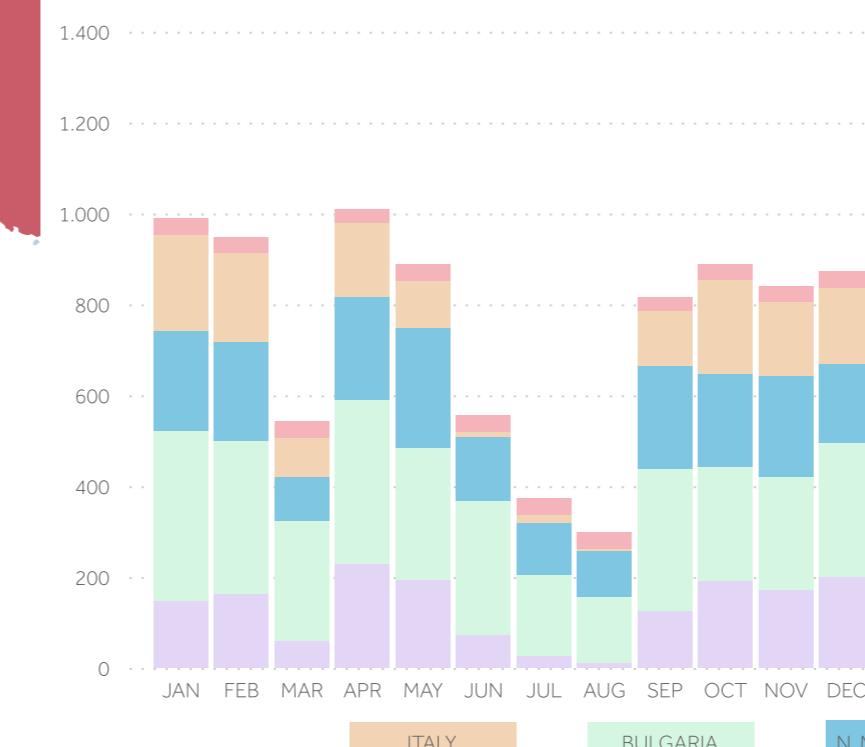
IMPORTS 2023



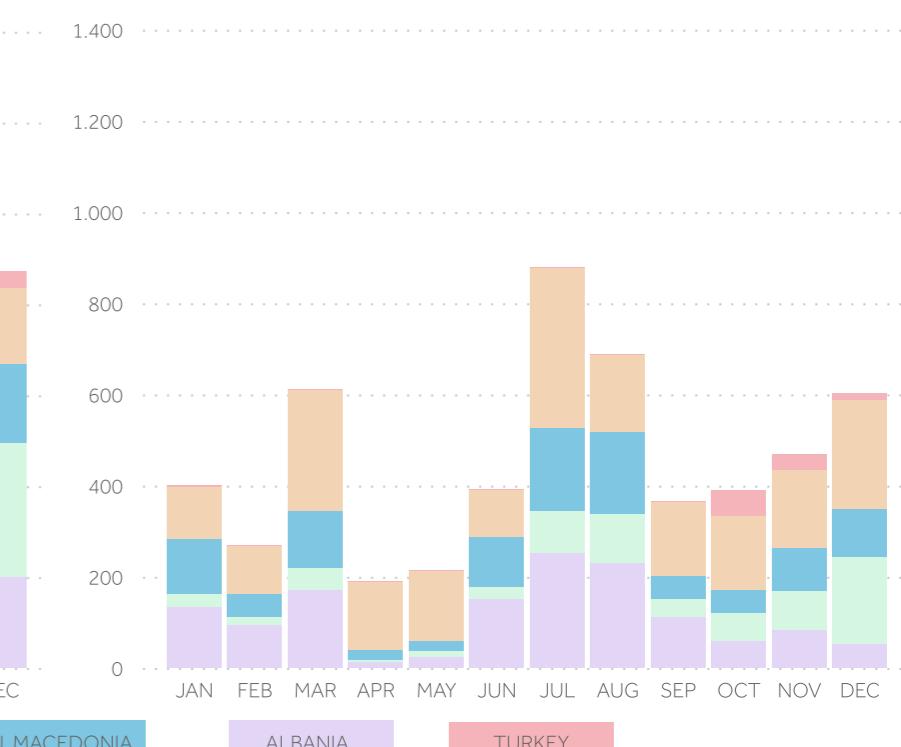
EXPORTS 2023



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	3.522,91	544,04	597,00	26,37	17,83	6,70	135,59	30,71	4.881,14	4.337,10
FEB	2.931,62	532,60	520,61	23,27	18,56	13,97	113,46	22,43	4.176,51	3.643,91
MAR	3.217,66	670,52	593,67	27,03	16,13	12,17	132,69	21,88	4.691,75	4.021,23
APR	2.157,97	766,85	560,25	23,92	26,07	28,79	97,46	36,49	3.697,80	2.930,94
MAY	2.264,01	831,88	577,75	23,28	23,58	18,46	93,17	68,73	3.900,86	3.068,98
JUN	2.739,92	812,17	548,12	21,37	19,85	16,53	112,67	58,24	4.328,86	3.516,70
JUL	3.342,34	917,51	554,78	22,30	14,25	13,21	135,30	19,79	5.019,48	4.101,98
AUG	3.169,61	796,82	500,40	21,99	13,51	12,80	114,56	31,57	4.661,26	3.864,43
SEP	2.425,32	764,06	551,63	19,33	23,19	15,88	95,75	20,70	3.915,86	3.151,80
OCT	2.149,02	736,29	569,86	19,79	28,09	27,25	94,58	19,19	3.644,06	2.907,78
NOV	2.409,72	521,60	568,99	19,34	23,40	20,63	95,85	28,18	3.687,70	3.166,10
DEC	2.852,15	468,44	563,12	22,51	27,54	20,22	105,85	22,82	4.082,64	3.614,20
	33.182,23	8.362,77	6.706,18	270,50	251,99	206,59	1.326,92	380,73	50.687,92	42.325,15

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	2.902,05	565,23	550,50	24,29	27,31	32,02	100,46	42,47	4.244,32	3.679,09
FEB	2.696,45	679,62	506,42	22,26	28,08	18,03	92,67	53,96	4.097,50	3.417,88
MAR	2.397,34	820,25	563,47	21,76	36,47	35,45	82,89	51,36	4.008,98	3.188,73
APR	2.015,27	845,94	524,52	20,05	35,11	33,45	77,94	56,79	3.609,07	2.763,13
MAY	2.056,85	838,21	535,61	19,05	34,00	37,71	77,79	62,33	3.661,52	2.823,32
JUN	2.227,82	946,20	507,60	15,49	34,72	22,53	74,84	69,04	3.898,33	2.952,13
JUL	3.659,37	1.074,21	546,43	17,81	27,11	11,23	110,06	83,65	5.529,96	4.455,75
AUG	3.185,59	1.022,96	487,59	17,71	34,39	13,26	103,26	86,12	4.951,00	3.928,04
SEP	2.353,75	776,11	492,46	15,28	33,12	23,59	93,69	59,21	3.847,30	3.071,20
OCT	2.158,25	752,58	551,26	19,07	25,64	16,07	87,99	68,35	3.679,32	2.926,74
NOV	2.365,38	614,59	560,62	18,63	29,92	42,85	79,65	38,58	3.750,21	3.135,62
DEC	2.827,95	590,67	553,77	20,67	28,50	41,15	97,45	53,87	4.214,04	3.623,36
	30.846,05	9.526,56	6.380,25	232,06	374,36	327,35	1.078,67	725,72	49.491,55	39.964,99



At a glance



Energy Balance



Demand



Generation



Interconnections



Annex

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MONTHLY ENERGY BULLETIN | December 2023 | 2nd VERSION

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	6.290	26/05/2023	13:00	3.387	08/05/2023	4:00
JUN	7.726	28/06/2023	14:00	3.571	05/06/2023	4:00
JUL	10.385	26/07/2023	15:00	4.352	02/07/2023	7:00
AUG	9.221	04/08/2023	15:00	4.374	15/08/2023	7:00
SEP	7.587	01/09/2023	14:00	3.706	10/09/2023	5:00
OCT	6.350	05/10/2023	14:00	3.481	29/10/2023	5:00
NOV	7.217	27/11/2023	20:00	3.769	10/11/2023	5:00
DEC	7.445	18/12/2023	20:00	3.800	27/12/2023	5:00

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	5.633	02/05/2023	21:00	1.453	07/05/2023	16:00
JUN	6.518	28/06/2023	22:00	2.144	05/06/2023	15:00
JUL	8.960	21/07/2023	21:00	2.735	09/07/2023	15:00
AUG	8.162	03/08/2023	22:00	2.246	15/08/2023	13:00
SEP	6.762	01/09/2023	21:00	1.794	10/09/2023	15:00
OCT	5.807	24/10/2023	20:00	1.492	15/10/2023	15:00
NOV	7.002	27/11/2023	20:00	1.871	05/11/2023	12:00
DEC	7.141	18/12/2023	20:00	2.253	26/12/2023	13:00



At a glance



Energy Balance



Demand



Generation



Interconnections



Annex

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MONTHLY ENERGY BULLETIN | December 2023

| 2nd VERSION

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

2022

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	4.500	4.753
2	4.182	4.435
3	4.100	4.352
4	3.998	4.248
5	3.975	4.222
6	4.100	4.347
7	4.531	4.777
8	5.152	5.399
9	5.389	5.843
10	5.244	6.236
11	4.874	6.374
12	4.611	6.408
13	4.533	6.415
14	4.582	6.352
15	4.653	6.130
16	5.152	6.119
17	5.687	6.098
18	6.193	6.430
19	6.439	6.676
20	6.452	6.691
21	6.349	6.589
22	5.966	6.210
23	5.458	5.705
24	5.073	5.318

2023

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	4.665	4.924
2	4.272	4.532
3	4.229	4.487
4	4.169	4.427
5	4.160	4.420
6	4.314	4.573
7	4.728	4.989
8	5.363	5.631
9	5.477	6.061
10	5.025	6.400
11	4.437	6.474
12	4.091	6.510
13	4.006	6.553
14	4.079	6.494
15	4.291	6.284
16	4.948	6.225
17	5.743	6.250
18	6.352	6.620
19	6.612	6.879
20	6.640	6.905
21	6.573	6.834
22	6.207	6.465
23	5.745	6.003
24	5.247	5.511

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

Date of Maximum 18/12/2023

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	4.664	5.015
2	4.259	4.611
3	4.216	4.565
4	4.266	4.611
5	4.254	4.592
6	4.500	4.840
7	4.987	5.306
8	5.709	6.027
9	5.712	6.569
10	4.886	6.983
11	4.008	7.032
12	3.563	7.023
13	3.638	7.203
14	3.803	7.190
15	3.994	6.851
16	4.715	6.572
17	5.944	6.603
18	6.781	7.070
19	7.113	7.410
20	7.141	7.445
21	7.095	7.398
22	6.671	6.966
23	6.089	6.400
24	5.451	5.763

Date of Minimum 27/12/2023

TIME	SYSTEM DEMAND	TOTAL DEMAND
1	4.140	4.375
2	3.809	4.046
3	3.696	3.939
4	3.587	3.825
5	3.564	3.800
6	3.709	3.933
7	4.106	4.329
8	4.592	4.818
9	4.740	5.344
10	4.074	5.792
11	3.219	5.904
12	3.022	6.188
13	2.962	6.314
14	2.863	6.075
15	2.923	5.649
16	3.813	5.600
17	4.952	5.578
18	5.730	5.950
19	6.098	6.308
20	6.167	6.365
21	6.098	6.286
22	5.748	5.939
23	5.304	5.495
24	4.882	5.077



At a glance



Energy Balance



Demand



Generation



Interconnections



Annex

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MONTHLY ENERGY BULLETIN | December 2023

| 2nd VERSION

1.6 Analysis of Load Representatives' Supply (GWh)

LOAD REPRESENTATIVE	2023-01	2023-02	2023-03	2023-04	2023-05	2023-06	2023-07	2023-08	2023-09	2023-10	2023-11	2023-12	TOTAL
PPC	2.453,9	2.457,2	2.368,5	2.080,3	1.955,0	2.058,5	3.128,7	2.794,7	1.973,4	1.804,9	1.904,7	2.259,9	27.239,7
HERON	285,6	283,1	283,4	256,6	357,8	397,8	496,4	419,4	430,1	459,9	455,2	437,3	4.562,7
MYTILINEOS	431,2	295,1	287,0	256,8	265,9	304,9	412,7	368,8	309,3	289,0	284,1	373,3	3.878,1
ELPEDISON	248,0	235,0	238,1	209,0	228,2	227,3	308,8	276,7	227,3	223,8	224,0	238,5	2.884,8
NRG	188,1	192,7	193,3	168,6	171,8	200,4	283,1	259,8	209,9	196,9	197,7	227,9	2.490,1
WATT AND VOLT	84,7	82,4	106,4	157,1	179,3	171,3	158,4	162,3	154,3	176,1	184,3	96,0	1.712,5
ATTIKI GSC	110,1	113,2	115,4	103,0	106,6	120,0	166,4	140,7	125,6	121,3	121,9	130,3	1.474,6
ZENITH	89,0	87,2	81,6	72,5	81,0	86,4	135,8	118,9	84,0	78,4	85,1	107,3	1.107,2
VOLTERRA	74,6	74,6	80,5	70,0	74,6	83,1	97,9	87,4	81,2	77,2	74,7	75,2	950,9
VOLTON	40,1	37,9	33,8	27,9	29,1	30,4	44,1	38,5	28,3	38,9	42,3	50,3	441,7
PPC_USP	38,1	37,9	34,2	29,1	33,8	31,3	46,6	40,5	28,4	27,1	29,7	38,3	415,1
KEN	21,2	20,2	17,5	14,4	12,6	16,5	23,3	20,3	15,5	0,4			162,0
ELINOIL	6,8	6,3	6,5	5,4	5,5	5,7	7,3	9,3	6,9	6,1	5,9	5,7	77,4
EUNICE TRAD	5,2	5,2	5,5	5,2	4,8	5,8	7,4	6,8	6,8	6,9	6,5	6,5	72,4
VIENER	6,5	6,0	7,1	5,7	2,3	2,5	3,1	2,6	2,4	2,3	2,2	2,1	44,8
ELTA	6,1	5,6	5,0	3,7	3,2	3,0	2,7	2,5	1,7	1,4	1,2	1,4	37,5
OTE	2,0	1,9	1,9	1,7	1,8	1,9	2,4	2,3	1,9	1,8	1,8	2,0	23,4
MYTILINEOS_USP	2,1	2,0	1,8	1,5	1,8	1,7	2,6	2,2	1,5	1,5	1,6	2,1	22,6
ELPEDISON_USP	1,9	1,9	1,7	1,5	1,7	1,6	2,4	2,0	1,4	1,4	1,5	1,9	20,7
HERON_USP	1,6	1,6	1,4	1,2	1,4	1,3	2,3	1,7	1,2	1,3	1,3	1,6	18,1
SOLAR ENERGY	1,1	1,1	1,2	1,2	0,9	1,3	1,9	1,7	1,6	1,9	1,6	1,5	17,2
NRG_USP	1,2	1,2	1,1	0,9	1,0	1,0	1,8	1,5	1,0	1,0	1,1	1,5	14,3
MARKOU	0,6	0,5	0,7	0,2	0,5	0,1	0,1	0,1	0,1	2,2	2,0	0,7	7,8
KOR_POWER	0,8	0,3	0,6	0,2	0,4	0,3	0,2	0,5	0,4	0,2	0,3	0,8	5,0
HERON2_V	0,6	0,4	0,5	0,3	0,4	0,4	0,2	0,2	0,2	0,2	0,5	0,4	4,3
VIOLAR	0,3	0,2	0,1	0,1	0,1	0,1	0,1	0,1	0,1	0,9	1,0	0,4	3,4
TOTAL	4.101,4	3.950,9	3.874,7	3.474,3	3.521,4	3.754,4	5.336,8	4.761,8	3.694,5	3.523,2	3.632,2	4.062,9	47.688,4

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	329,44	51,15%	288,26	35,97%	1.642,18	62,74%	2.259,88	55,62%
HERON	130,13	20,20%	134,88	16,83%	172,33	6,58%	437,33	10,76%
MYTILINEOS	44,28	6,87%	128,57	16,04%	200,49	7,66%	373,34	9,19%
ELPEDISON	65,42	10,16%	43,78	5,46%	129,26	4,94%	238,46	5,87%
NRG	12,94	2,01%	75,10	9,37%	139,86	5,34%	227,90	5,61%
ATTIKI GSC	0,00	0,00%	56,27	7,02%	74,01	2,83%	130,28	3,21%
ZENITH	0,00	0,00%	4,07	0,51%	103,20	3,94%	107,27	2,64%
WATT AND VOLT	54,53	8,47%	3,82	0,48%	37,68	1,44%	96,03	2,36%
VOLTERRA	6,20	0,96%	49,19	6,14%	19,79	0,76%	75,19	1,85%
VOLTON	0,00	0,00%	5,22	0,65%	45,03	1,72%	50,25	1,24%
PPC_USP	0,00	0,00%	0,00	0,00%	38,35	1,47%	38,35	0,94%
EUNICE TRAD	0,01	0,00%	3,40	0,42%	3,08	0,12%	6,49	0,16%
ELINOIL	0,00	0,00%	3,33	0,41%	2,41	0,09%	5,74	0,14%
MYTILINEOS_USP	0,00	0,00%	0,00	0,00%	2,12	0,08%	2,12	0,05%
VIENER	0,00	0,00%	2,10	0,26%	0,00	0,00%	2,10	0,05%
OTE	0,00	0,00%	1,01	0,13%	1,01	0,04%	2,02	0,05%
ELPEDISON_USP	0,00	0,00%	0,00	0,00%	1,92	0,07%	1,92	0,05%
HERON_USP	0,00	0,00%	0,00	0,00%	1,63	0,06%	1,63	0,04%
SOLAR ENERGY	0,00	0,00%	0,80	0,10%	0,70	0,03%	1,50	0,04%
NRG_USP	0,00	0,00%	0,00	0,00%	1,46	0,06%	1,46	0,04%
ELTA	0,00	0,00%	0,57	0,07%	0,82	0,03%	1,38	0,03%
KOR_POWER	0,77	0,12%	0,00	0,00%	0,00	0,00%	0,77	0,02%
MARKOU	0,00	0,00%	0,70	0,09%	0,00	0,00%	0,70	0,02%
VIOLAR	0,00	0,00%	0,39	0,05%	0,01	0,00%	0,40	0,01%
HERON2_V	0,38	0,06%	0,00	0,00%	0,00	0,00%	0,38	0,01%
TOTAL	644,09	100,00%	801,44	100,00%	2.617,35	100,00%	4.062,88	100,00%

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
	5.585,624	17.948,609	4.005,248	26,868	11.291,276	8.362,770	19,892	27.566,349	38.877,517	47.240,287

2023

MONTH	LIGNITE	NATURAL GAS	HYDRO	OTHER FUEL	SYSTEM RES	NERWORK 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	199,692	873,382	216,867	1,421	924,831	838,206	0,334	1.291,362	2.216,527	3.054,733
JUN	218,540	1.395,369	371,042	1,604	628,615	946,202	0,104	1.986,555	2.615,274	3.561,476
JUL	591,388	1.910,425	431,952	1,564	800,795	1.074,208	0,003	2.935,329	3.736,127	4.810,335
AUG	371,479	1.619,973	436,067	1,621	1.230,797	1.022,957	0,000	2.429,140	3.659,937	4.682,894
SEP	187,093	1.507,491	360,307	0,890	1.148,444	776,106	0,216	2.055,781	3.204,441	3.980,547
OCT	358,380	1.326,658	440,540	1,003	899,172	752,583	0,463	2.126,581	3.026,216	3.778,799
NOV	377,494	963,713	288,504	0,964	1.215,368	614,587	1,304	1.630,675	2.847,347	3.461,934
DEC	488,517	1.181,499	499,202	1,244	1.125,134	590,674	1,822	2.170,462	3.297,418	3.888,092
	4.513,204	14.630,842	4.047,146	15,532	11.835,762	9.526,557	10,560	23.206,724	35.053,046	44.579,603

2.2 Evolution of Conventional Generation Mix (GWh)

2022

MONTH	LIGNITE	NATURAL GAS	HYDRO	OTHER FUEL	TOTAL CONVENTIONAL GENERATION
JAN	509,09	1.566,93	682,67	2,20	2.760,90
FEB	412,58	1.483,14	205,77	2,03	2.103,53
MAR	671,61	2.070,20	337,68	2,03	3.081,53
APR	176,13	827,20	228,32	1,92	1.233,57
MAY	222,83	1.184,08	312,27	2,21	1.721,39
JUN	468,10	1.627,53	379,16	2,34	2.477,12
JUL	739,38	2.249,90	447,56	2,40	3.439,24
AUG	794,90	2.141,67	429,49	2,45	3.368,52
SEP	394,23	1.249,57	269,58	2,36	1.915,74
OCT	277,41	793,12	207,13	2,49	1.280,15
NOV	312,78	1.200,29	211,79	2,16	1.727,02
DEC	606,59	1.554,97	293,82	2,29	2.457,66
	5.585,62	17.948,61	4.005,25	26,87	27.566,35

2023

MONTH	LIGNITE	NATURAL GAS	HYDRO	OTHER FUEL	TOTAL CONVENTIONAL GENERATION
JAN	405,53	885,73	353,36	2,25	1.646,87
FEB	611,17	917,78	286,53	1,89	1.817,37
MAR	428,77	949,21	187,04	0,30	1.565,32
APR	275,16	1.099,62	175,73	0,78	1.551,28
MAY	199,69	873,38	216,87	1,42	1.291,36
JUN	218,54	1.395,37	371,04	1,60	1.986,56
JUL	591,39	1.910,43	431,95	1,56	2.935,33
AUG	371,48	1.619,97	436,07	1,62	2.429,14
SEP	187,09	1.507,49	360,31	0,89	2.055,78
OCT	358,38	1.326,66	440,54	1,00	2.126,58
NOV	377,49	963,71	288,50	0,96	1.630,68
DEC	488,52	1.181,50	499,20	1,24	2.170,46
	4.513,20	14.630,84	4.047,15	15,53	23.206,72

2.3 Evolution of System RES Generation Mix (GWh)

2022

MONTH	WIND	PHOTOVOLTAIC	SMALL HYDRO	CO-GENERATION	BIOGAS	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
	9.504,09	606,45	125,22	1.055,52		11.291,28

2023

MONTH	WIND	PHOTOVOLTAIC	SMALL HYDRO	CO-GENERATION	BIOGAS	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	758,79	69,92	11,51	84,61		924,83
JUN	442,59	95,69	10,44	79,88	0,010	628,61
JUL	581,85	128,27	9,21	81,01	0,464	800,79
AUG	1.008,27	130,27	9,01	82,97	0,284	1.230,80
SEP	969,16	106,21	8,43	63,90	0,745	1.148,44
OCT	706,68	114,78	7,64	69,55	0,522	899,17
NOV	1.055,76	78,24	11,06	70,30	0,001	1.215,37
DEC	946,22	80,76	13,93	84,22	0,000	1.125,13
	9.688,65	1.055,43	124,81	964,85	2,026	11.835,76



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2.4 Analysis of Conventional Net Generation and Capacity per Producer (GWh/%)

PRODUCER	NET GENERATION (GWh)	NET GENERATION (%)	NET CAPACITY (MW)	NET CAPACITY (%)
PPC	1.482,20	66,44%	8.670,00	71,74%
MYTILINEOS	431,83	19,36%	1.572,70	13,01%
ELPEDISON	126,87	5,69%	828,00	6,85%
HERON 2 VIOTIAS	81,99	3,68%		
KORINTHOS POWER	61,99	2,78%	433,46	3,59%
HERON	46,00	2,06%	581,46	4,81%
TOTAL	2.230,89	100,00%	12.085,62	100,00%

Notes

- The participant Heron 2 Viotias was deactivated on 21/12/2023, due to a merger with absorption by Heron of the relevant subsidiary. In the table for presentation purposes the net capacity of its production unit is included in the net capacity of Heron.

2.5 Evolution of Conventional Generation per Producer (GWh)

PRODUCER	2023-01	2023-02	2023-03	2023-04	2023-05	2023-06	2023-07	2023-08	2023-09	2023-10	2023-11	2023-12	TOTAL
PPC	1.154,8	1.285,0	1.012,2	934,7	774,3	1.165,3	1.754,9	1.550,0	1.121,9	1.519,6	1.089,8	1.482,2	14.844,8
MYTILINEOS	157,5	111,1	271,0	282,8	269,3	337,7	527,6	378,1	631,4	284,3	348,1	431,8	4.030,8
ELPEDISON	246,5	215,5	132,8	169,0	64,0	231,7	333,9	288,1	165,1	158,4	106,7	126,9	2.238,6
HERON 2 VIOTIAS	113,0	122,1	134,7	59,8	123,6	153,7	184,5	188,1	181,8	208,8	131,7	82,0	1.683,8
KORINTHOS POWER	45,4	145,2	83,6	169,2	126,4	159,2	194,5	85,8	0,0	0,0	0,0	62,0	1.071,2
HERON	0,0	0,0	0,0	0,0	0,5	1,6	3,9	4,6	2,9	6,7	3,9	46,0	70,2
TOTAL	1.717,1	1.878,9	1.634,3	1.615,4	1.358,3	2.049,3	2.999,3	2.494,8	2.103,0	2.177,9	1.680,2	2.230,9	23.939,4

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	98,86	46,95%
AGIOS DIMITRIOS4	PPC	LIGNITE	283,00	50,80	24,13%
AGIOS DIMITRIOS5	PPC	LIGNITE	342,00	112,14	44,07%
MEGALOPOLI3	PPC	LIGNITE	255,00	0,00	0,00%
MEGALOPOLI4	PPC	LIGNITE	256,00	23,36	12,26%
MELITI	PPC	LIGNITE	289,00	0,00	0,00%
PROLEMAIDA5	PPC	LIGNITE	616,00	203,36	44,37%
AGRAS	PPC	HYDRO	50,00	2,24	6,02%
AOOS	PPC	HYDRO	210,00	30,67	19,63%
ASOMATA	PPC	HYDRO	108,00	9,54	11,87%
EDESSAIOS	PPC	HYDRO	19,00	1,90	13,42%
ILARIONAS	PPC	HYDRO	153,00	21,22	18,64%
KASTRAKI	PPC	HYDRO	320,00	97,90	41,12%
KREMASTA	PPC	HYDRO	437,20	139,24	42,81%
LADONAS	PPC	HYDRO	70,00	13,67	26,24%
PLASTIRAS	PPC	HYDRO	129,90	2,49	2,58%
PLATANOVRYSI	PPC	HYDRO	116,00	10,13	11,74%
POLYFYTO	PPC	HYDRO	375,00	29,50	10,57%
POURNARI1	PPC	HYDRO	300,00	31,61	14,16%
POURNARI2	PPC	HYDRO	33,60	4,96	19,84%
SFIKIA	PPC	HYDRO	315,00	26,91	11,48%
STRATOS1	PPC	HYDRO	150,00	44,95	40,28%
THESAVROS	PPC	HYDRO	384,00	32,27	11,30%
AGIOS NIKOLAOS2	MYTILINEOS	NATURAL GAS	806,00	251,11	41,88%
ALIVERI5	PPC	NATURAL GAS	417,00	151,08	48,70%
ALOUMINIO	MYTILINEOS	NATURAL GAS	334,00	88,10	35,46%
ELPEDISON THESS	ELPEDISON	NATURAL GAS	418,00	126,87	40,80%
ELPEDISON THISVI	ELPEDISON	NATURAL GAS	410,00	0,00	0,00%
HERON CC	HERON / HERON 2 VIOTIAS	NATURAL GAS	433,70	125,74	38,97%
KOMOTINI	PPC	NATURAL GAS	476,30	23,65	6,67%
KORINTHOS POWER	KORINTHOS POWER	NATURAL GAS	433,46	61,99	19,22%
LAVRIO4	PPC	NATURAL GAS	536,00	26,49	6,64%
LAVRIO5	PPC	NATURAL GAS	387,00	54,31	18,86%
MEGALOPOLI5	PPC	NATURAL GAS	811,00	238,95	39,60%
PROTERGIA CC	MYTILINEOS	NATURAL GAS	432,70	92,61	28,77%
HERON1	HERON	NATURAL GAS	49,25	0,94	2,56%
HERON2	HERON	NATURAL GAS	49,25	0,64	1,75%
HERON3	HERON	NATURAL GAS	49,25	0,67	1,82%
TOTAL			12.085,62	2.230,89	24,81%

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.
- The participant Heron 2 Viotias was deactivated on 21/12/2023, due to a merger with absorption by Heron of the relevant subsidiary.



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2.7 Geographical Distribution of Conventional Generation¹

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					80,80	923,00	80,80	923,00
CENTRAL GREECE	282,09	907,20			559,82	2.564,16	841,91	3.471,36
CENTRAL MACEDONIA	70,08	867,00			126,87	418,00	196,95	1.285,00
EAST MACEDONIA - THRACE	42,41	500,00			23,65	476,30	66,06	976,30
EPIRUS	67,24	543,60					67,24	543,60
EVIA					151,08	417,00	151,08	417,00
PELOPONNESE	13,67	70,00	23,36	511,00	300,95	1.244,46	337,97	1.825,46
THESSALY	2,49	129,90					2,49	129,90
WEST MACEDONIA	21,22	153,00	465,16	2.361,00			486,38	2.514,00
TOTAL	499,20	3.170,70	488,52	2.872,00	1.243,17	6.042,92	2.230,89	12.085,62

Notes

- Generation refers to the injection point in the System.
- 1 ▪ 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 ▪ 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.

2.8 Geographical Distribution of System RES Generation²

RES TECHNOLOGY AREA	BIOGAS		CO-GENERATION		PHOTOVOLTAIC		SMALL HYDRO		WIND		TOTAL	
	NET GENERATION (GWh)	NET CAPACITY (MW)										
ATTICA									32,58	148	32,58	148
CENTRAL GREECE			61,67	133	20,56	217	9,63	23	297,99	1.457	389,85	1.830
CENTRAL MACEDONIA			10,01	16	2,01	29	1,98	11	32,05	127	46,06	182
CYCLADES									3,60	15	3,60	15
EAST MACEDONIA - THRACE			12,53	18					117,07	518	129,61	535
EPIRUS					0,59	50			19,18	104	19,78	154
EVIA									220,46	1.002	220,46	1.002
IONIAN ISLANDS									15,75	93	15,75	93
PELOPONNESE	0,00	2			11,29	154			139,25	705	150,55	860
THESSALY					2,23	66	2,32	6	0,72	28	5,27	100
WEST MACEDONIA					44,08	555			67,56	334	111,64	889
TOTAL	0,00	2	84,22	167	80,76	1.071	13,93	40	946,22	4.531	1.125,13	5.810



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3.1 Evolution of Commercial Programs (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
TOTAL	5,474,414	9,026,930	3,552,516

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	233,613	878,051	644,438
JUN	242,456	592,855	350,399
JUL	322,277	1,079,365	757,088
AUG	592,949	888,892	295,943
SEP	698,701	598,079	-100,622
OCT	718,644	648,364	-70,280
NOV	328,710	669,255	340,545
DEC	674,024	1,054,629	380,605
TOTAL	5,216,099	10,508,314	5,292,215

3.2 Evolution of Physical Energy Flows (GWh)

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
TOTAL	4,303,367	7,750,991	3,447,624

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	129,275	736,065	606,791
JUN	95,328	432,184	336,856
JUL	159,606	879,234	719,628
AUG	355,074	623,181	268,107
SEP	551,124	417,879	-133,245
OCT	528,237	428,755	-99,482
NOV	172,722	460,996	288,275
DEC	379,738	705,680	325,942
TOTAL	3,239,754	8,151,696	4,911,942

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	1.596,509
	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	3.351,170
	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	1.449,080
	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	2.211,549
	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	418,622
	TOTAL	990,513	947,492	543,888	1.010,597	888,629	556,808	373,762	300,186	815,584	887,420	839,716	872,335	9.026,930
2023	INTERCONNECTION	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
	ALBANIA	279,078	201,953	216,750	158,053	177,270	152,932	220,234	159,702	109,383	113,205	172,458	220,187	2.181,205
	BULGARIA	476,171	375,795	394,528	399,410	330,649	233,343	402,994	318,050	228,957	252,602	269,577	467,554	4.149,630
	ITALY	234,331	120,734	119,691	57,754	120,441	0,000	136,174	129,399	74,270	59,029	0,000	89,753	1.141,576
	N. MACEDONIA	280,853	220,829	233,604	203,978	213,883	172,293	283,029	245,654	155,955	190,900	192,512	240,165	2.633,655
	TURKEY	33,386	32,278	34,818	24,830	35,808	34,287	36,934	36,087	29,514	32,628	34,708	36,970	402,248
	TOTAL	1.303,819	951,589	999,391	844,025	878,051	592,855	1.079,365	888,892	598,079	648,364	669,255	1.054,629	10.508,314

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	1.386,870
	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	707,826
	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	2.151,525
	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	1.115,631
	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	112,562
	TOTAL	400,744	269,469	612,120	190,996	214,245	391,646	879,519	688,884	365,574	389,184	469,318	602,715	5.474,414
2023	INTERCONNECTION	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
	ALBANIA	7,365	24,708	28,341	47,211	5,811	53,491	57,796	86,075	105,337	143,001	58,651	71,330	689,117
	BULGARIA	31,896	49,717	85,014	53,524	55,618	118,442	76,100	168,883	169,551	192,255	198,029	188,407	1.387,436
	ITALY	149,685	228,754	253,102	289,855	146,503	0,000	170,633	287,881	319,389	311,428	0,000	303,224	2.460,454
	N. MACEDONIA	12,855	25,776	23,835	20,826	8,332	52,974	16,053	36,504	94,986	61,761	58,433	105,492	517,827
	TURKEY	28,248	17,717	18,904	7,392	17,349	17,549	1,695	13,606	9,438	10,199	13,597	5,571	161,265
	TOTAL	230,049	346,672	409,196	418,808	233,613	242,456	322,277	592,949	698,701	718,644	328,710	674,024	5.216,099



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Remarks

- 1** The data presented in this bulletin result from the corrective settlement carried out by IPTO in W+6 timing (where W is the reference week), which is based on certified measurements.
- 2** The generation of the co-generation production unit of Alouminio included in the present bulletin has been estimated as 70% of its total generation, pending relevant calculations by RES Operator & Guarantees of Origin (DAPEEP S.A.).

2nd Version

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