

# Statistical Factsheet 2024

Provisional values as of March 2025

The Statistical Factsheet is based upon data reported to the ENTSO-E Central Transparency Platform, with the exception of grid statistics. Readers are reminded that the content of the Transparency Platform predominantly consists of operational data, which in some instances may be less suitable for statistical purposes.



# ENTSO-E in figures – Electricity system data of member TSOs in 2024

Area/ Country	Aggregated generation																				Consumption			Area/ Country			
	Non renewable net generation	Nuclear	Fossil fuels	Fossil Brown coal/Lignite	Fossil Coal-derived gas	Fossil Gas	Fossil Hard coal	Fossil Oil	Fossil Oil shale	Fossil Peat	Hydro Pumped Storage	Waste	Other non-renewable	Renewable Net Generation	Wind Offshore	Wind Onshore	Solar	Biomass	Geothermal	Hydro Run-of-river and pondage	Hydro Water Reservoir	Other renewable	Total net generation		Consumption of Hydro Pumped Storage	Net Consumption	
	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	TWh	
AL																										7.2	AL
AT <sup>1</sup>	12.5		6.1			6.1					5.3	0.9	0.2	53.6		9.4	5.9	1.9	0.0	31.8	4.6		66.1	2.3	58.8	AT <sup>1</sup>	
BA	7.3		7.1	7.1							0.2			3.8		0.1	0.1			0.5	3.1		11.1		9.6	BA	
BE	50.5	29.7	11.5			11.5			0.0		1.0	2.1	6.1	22.0	7.1	5.5	8.3	0.7		0.3			72.5	1.4	81.0	BE	
BG <sup>2</sup>	27.4	15.5	11.8	9.3		2.1	0.5				0.0	0.0		9.3		1.4	4.9	0.2		1.1	1.7		36.7		36.8	BG <sup>2</sup>	
CH	32.6	23.0									9.6			20.6		0.1	4.3			2.3	13.9		53.2		59.6	CH	
CZ	57.0	28.0	27.2	23.0	0.1	3.4	0.6	0.0			0.9	0.2	0.6	11.8		0.7	3.9	2.2		1.0	1.5	2.4	68.7	1.2	60.9	CZ	
DE	177.9		159.6	71.0	1.1	56.9	27.3	3.2			10.4	6.5	1.5	254.9	25.7	111.8	63.2	36.2	0.2	15.3	1.9	0.7	432.8	13.1	464.7	DE	
DK	6.3		5.5			1.9	3.3	0.4						28.1	9.7	10.7	3.7	4.0					34.5		36.8	DK	
EE	2.3		2.2		0.5	0.0			1.7					2.6		1.2	1.0	0.4		0.0		0.0	4.9		8.0	EE	
ES	108.1	52.3	45.7			42.4	3.0	0.3			8.1	1.9	0.2	142.2		59.0	47.3	3.4		8.8	23.1	0.7	250.4	8.9	232.3	ES	
FI	37.0	31.1	4.1			1.2	1.1	0.0		1.8			0.3	40.7		19.5	1.2	6.3		13.6		0.1	77.6		82.0	FI	
FR	388.0	360.1	19.2			17.2	0.6	1.4			6.9	1.8		135.6	4.0	41.9	23.3	3.1		45.9	17.4		523.7	6.1	429.2	FR	
GB <sup>3</sup>	2.0		2.0			2.0		0.0					0.0	2.1		2.1							4.1		7.0	GB <sup>3</sup>	
GE	2.7		2.7			2.7								9.7		0.1				4.5	5.1		12.4		13.8	GE	
GR	25.2		24.4	3.3		21.1					0.9			25.0		11.0	11.4				2.6		50.2		50.4	GR	
HR	4.2		3.6			2.9	0.7	0.0			0.5	0.1		9.2		2.6	0.2	0.6		1.8	3.7	0.3	13.5	0.2	18.3	HR	
HU	24.8	15.1	9.0	2.4		6.4	0.3	0.0					0.1	7.6		0.6	5.7	0.9	0.0	0.1	0.1	0.1	32.3		43.4	HU	
IE	9.4		9.1			6.6	0.9	1.3		0.4	0.3		0.0	8.7		8.2				0.5			18.0	0.4	32.3	IE	
IT	126.7		102.9		4.9	93.4	3.5	1.1			5.2	2.8	15.7	105.8	0.0	21.9	27.7	5.2	4.8	40.3	5.8		232.5	1.7	279.1	IT	
LT	2.4		0.8			0.8					0.6	0.7	0.3	5.3		3.3	1.4	0.2		0.4			7.6	0.8	12.2	LT	
LU <sup>4</sup>	0.2		0.1			0.1								1.1		0.5	0.3	0.3		0.1	0.0		1.3		4.9	LU <sup>4</sup>	
LV	1.6		1.6			1.6								4.3		0.3	0.4	0.4		3.2			5.9		7.0	LV	
MD	5.0		5.0			5.0								0.3		0.1	0.0	0.0		0.2			5.3		5.7	MD	
ME	1.3		1.3	1.3										1.9		0.3					1.6		3.2		3.0	ME	
MK	3.3		3.3	2.2		1.1								1.0		0.1				0.9			4.3		5.0	MK	
NL	82.7	3.4	39.6			29.2	10.4					2.8	36.9	23.5	15.2	7.7	0.5	0.2					106.2		115.0	NL	
NO	4.1		1.6			1.6					2.2	0.3		151.3		14.5	0.0			30.2	106.2	0.4	155.4		136.8	NO	
PL <sup>5</sup>	112.9		108.5	32.9	1.1	16.5	56.1	2.0			1.1		3.2	45.7		23.9	17.3	2.4		1.5	0.3	0.2	158.6		163.5	PL <sup>5</sup>	
PT <sup>6</sup>	11.6		4.9			4.9					6.4		0.3	34.2	0.1	14.1	4.9	3.2		8.4	3.6		45.8	4.8	51.4	PT <sup>6</sup>	
RO	28.0	10.8	17.2	6.8		10.3	0.1							23.1		6.3	2.1	0.4		9.3	5.0		51.2		54.3	RO	
RS	23.2		22.6	21.5		1.1					0.4		0.2	11.5		1.1		0.3		9.5	0.7		34.7		34.3	RS	
SE	54.6	48.6	0.0			0.0							6.0	107.0		40.3	1.9				64.8		161.6		131.9	SE	
SI	9.5	5.5	3.7	3.2		0.5		0.0			0.3	0.0		5.7		0.0	0.5	0.1		5.1			15.3		12.4	SI	
SK	22.8	18.2	3.0	0.1		2.4	0.2	0.4			0.6		0.9	6.6		0.0	0.5	0.9		4.3	0.4	0.5	29.5	0.6	25.6	SK	
XK <sup>7</sup>	5.6		5.6	5.6																			5.6		6.5	XK <sup>7</sup>	
ENTSO-E <sup>**</sup>	1 470.7	641.4	672.8	189.7	7.6	353.0	108.5	10.1	1.7	2.2	60.9	21.6	74.0	1 315.9	61.8	420.0	242.0	73.6	5.0	240.0	268.2	5.3	2 786.6	41.5	2 773.2	ENTSO-E <sup>**</sup>	
%	52.78	23.02	24.15	6.81	0.27	12.67	3.90	0.36	0.06	0.08	2.18	0.77	2.66	47.22	2.22	15.07	8.68	2.64	0.18	8.61	9.63	0.19	100.00			%	
EU <sup>***</sup>	1 383.6	618.4	621.6	151.9	7.6	339.5	108.5	10.1	1.7	2.2	48.6	21.3	73.8	1 113.7	61.8	401.5	237.6	73.3	5.0	192.9	136.7	4.9	2 497.3	41.5	2 491.9	EU <sup>***</sup>	
%	55.4	24.8	24.9	6.1	0.3	13.6	4.3	0.4	0.1	0.1	1.9	0.9	3.0	44.6	2.5	16.1	9.5	2.9	0.2	7.7	5.5	0.2	100.0			%	

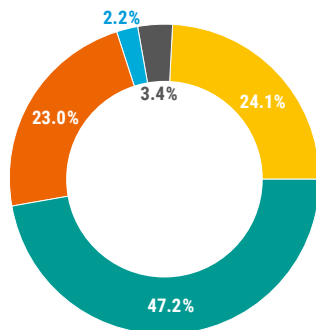
All footnotes on page 6



# Generation

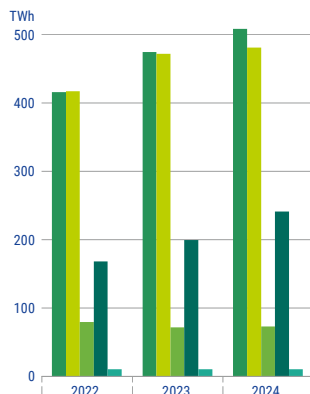
## Generation mix in ENTSO-E member TSOs in 2024<sup>1</sup>

	TWh
<b>Fossil fuels net generation</b> (lignite and hard coal, gas, oil, mixed fuels, peat)	672.8
<b>Renewable net generation</b> (renewable hydro, wind, solar, biomass, geothermal)	1 315.9
<b>Thermal nuclear net generation</b>	641.4
<b>Hydro net generation</b> (except renewable part)	60.9
<b>Net generation not identified</b>	95.6



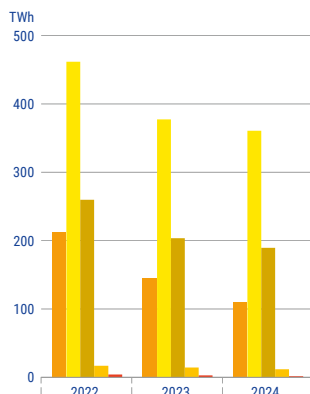
## ENTSO-E renewable generation<sup>1</sup>

	Year	TWh	%
<b>Renewable net generation</b>	2022	1 093.1	
	2023	1 227.9	
	<b>2024</b>	<b>1 315.9</b>	
of which hydro	2022	416.2	38%
	2023	474.2	39%
	<b>2024</b>	<b>508.2</b>	<b>39%</b>
of which wind	2022	416.8	38%
	2023	471.8	38%
	<b>2024</b>	<b>481.8</b>	<b>37%</b>
of which biomass	2022	80.5	7%
	2023	71.5	6%
	<b>2024</b>	<b>73.6</b>	<b>6%</b>
of which solar	2022	168.3	15%
	2023	199.7	16%
	<b>2024</b>	<b>242.0</b>	<b>18%</b>
of which other renewable	2022	11.2	1%
	2023	10.8	1%
	<b>2024</b>	<b>10.4</b>	<b>1%</b>

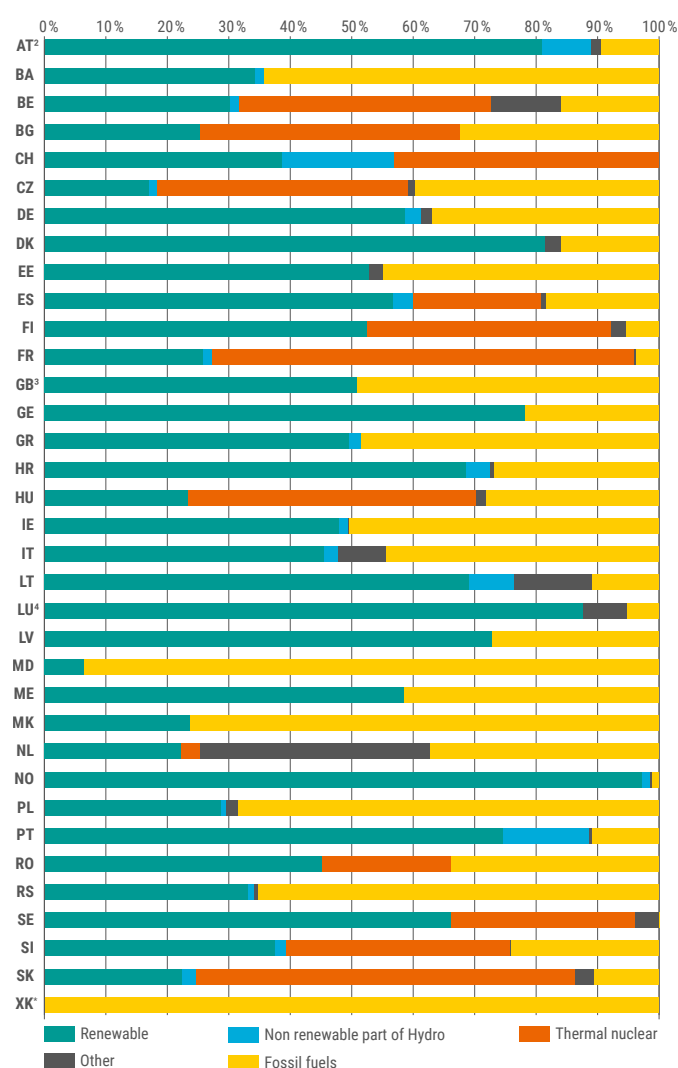


## ENTSO-E fossil fuels generation<sup>1</sup>

	Year	TWh	%
<b>Fossil fuels net generation</b>	2022	955.3	
	2023	742.6	
	<b>2024</b>	<b>672.8</b>	
of which hard coal	2022	212.7	22%
	2023	144.6	19%
	<b>2024</b>	<b>108.5</b>	<b>16%</b>
of which gas	2022	462.6	48%
	2023	377.9	51%
	<b>2024</b>	<b>360.6</b>	<b>54%</b>
of which lignite	2022	259.4	27%
	2023	203.4	27%
	<b>2024</b>	<b>189.7</b>	<b>28%</b>
of which oil	2022	16.4	2%
	2023	14.1	2%
	<b>2024</b>	<b>11.8</b>	<b>2%</b>
of which other fuels	2022	4.1	0.4%
	2023	2.6	0.4%
	<b>2024</b>	<b>2.2</b>	<b>0.3%</b>



## Share of energy produced of each member TSOs 2024 in %<sup>1</sup>



<sup>1</sup> Share of energy produced, based on the aggregated generation for each ENTSO-E TSO.

<sup>2</sup> All values from Transparency Platform for Austria are for the control area AT and not the country AT (some power plants and lines located in Austria are part of the German control areas TenneT DE and TransnetBW).

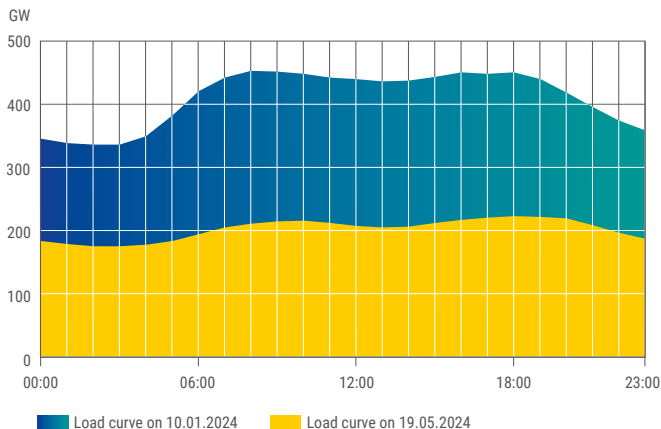
<sup>3</sup> All data with the country code GB represents the available data in ENTSO-E Transparency Platform for England, Northern Ireland, Scotland and Wales.

<sup>4</sup> All values from Transparency Platform for Luxembourg are for the monitoring area LU and not the country LU (the power plant Vianden and the lines around it located in Luxembourg are part of the German control area Amprion/Creos and some industrial consumers are directly connected to the French and to the Belgian control areas).

<sup>5</sup> This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence.

# ENTSO-E peak load 2024

## 2024 ENTSO-E load diagram on the days of the highest and lowest load values



## Values in MW on the days of highest and lowest ENTSO-E load values<sup>1,2</sup>

	10.01.2024 18:00 – 19:00	19.05.2024 05:00 – 06:00		10.01.2024 18:00 – 19:00	19.05.2024 05:00 – 06:00		10.01.2024 18:00 – 19:00	19.05.2024 05:00 – 06:00	
AL	1420	658	FR	82583	31895	ME	501	219	
AT <sup>3</sup>	9360	4462	GB	1403	506	MK	1086	390	
BA	1972	584	GE	1913	1504	NL	18085	9347	
BE	12400	7243	GR	7431	4172	NO	22133	10709	
BG <sup>4</sup>	6589	3301	HR	2898	1429	PL <sup>6</sup>	26989	14131	
CH	9583	4736	HU	6976	3465	PT	8909	3939	
CZ	9733	4952	IE	5346	2792	RO	8250	4671	
DE	69511	36590	IT	42907	20573	RS	5453	2725	
DK	5408	2914	LT	1733	1181	SE	21322	9967	
EE	1206	735	LU <sup>5</sup>	746	407	SI	2132	967	
ES	37202	18640	LV	993	627	SK	4010	2243	
FI	11935	7153	MD	917	522	XK <sup>*</sup>	1218.59	374.27	
							<b>ENTSO-E<sup>7</sup></b>	<b>452.253</b>	<b>220722</b>

<sup>1</sup> This is the average of the hour.

<sup>2</sup> All times are in UTC.

<sup>3</sup> All values from Transparency Platform for Austria are for the control area AT and not the country AT (some power plants and lines located in Austria are part of the German control areas TenneT DE and TransnetBW).

<sup>4</sup> The presented load for BG includes power plant auxiliary consumption in it.

<sup>5</sup> All values from Transparency Platform for Luxembourg are for the monitoring area LU and not the country LU (the power plant Vianden and the lines around it located in Luxembourg are part of the German control area Amprion/Creos and some industrial consumers are directly connected to the French and to the Belgian control areas).

<sup>6</sup> Gross value.

<sup>7</sup> Calculated load values as sum of the ENTSO-E member TSOs.

<sup>\*</sup> This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence.

## Highest and lowest hourly load values for 2024 in MW<sup>1</sup>

	HIGHEST LOAD		VALUE	LOWEST LOAD		VALUE
	Date	Time <sup>2</sup>	(in MW)	Date	Time <sup>2</sup>	(in MW)
AL	31.12.24	16:00 – 17:00	1 659	18.09.24	21:00 – 22:00	419
AT <sup>3</sup>	08.01.24	10:00 – 11:00	10 268	04.08.24	02:00 – 03:00	4 177
BA	17.01.24	16:00 – 17:00	2 233	01.01.24	06:00 – 07:00	0
BE	19.01.24	10:00 – 11:00	13 206	28.07.24	03:00 – 04:00	6 194
BG <sup>4</sup>	23.01.24	07:00 – 08:00	6 899	27.10.24	02:00 – 03:00	2 331
CH	06.12.24	08:00 – 09:00	10 437	05.12.24	22:00 – 23:00	2 743
CY	31.12.24	17:00 – 18:00	928	12.12.24	05:00 – 06:00	567
CZ	11.01.24	08:00 – 09:00	10 561	04.08.24	03:00 – 04:00	3 850
DE	15.01.24	10:00 – 11:00	75 508	22.09.24	01:00 – 02:00	32 413
DK	22.10.24	14:00 – 15:00	9 070	14.07.24	03:00 – 04:00	2 520
EE	04.01.24	09:00 – 10:00	1 595	22.09.24	12:00 – 13:00	463
ES	11.01.24	19:00 – 20:00	37 937	27.10.24	00:00 – 01:00	4 707
FI	03.01.24	17:00 – 18:00	14 993	23.06.24	01:00 – 02:00	5 780
FR	10.01.24	12:00 – 13:00	82 800	12.05.24	04:00 – 05:00	29 575
GB	27.11.24	18:00 – 19:00	1 443	20.10.24	03:00 – 04:00	413
GE	23.08.24	11:00 – 12:00	2 299	19.04.24	02:00 – 03:00	1 003
GR	22.07.24	11:00 – 12:00	11 034	05.05.24	03:00 – 04:00	3 074
HR	17.07.24	17:00 – 18:00	3 363	31.03.24	02:00 – 03:00	1 213
HU	22.01.24	16:00 – 17:00	7 148	01.04.24	11:00 – 12:00	2 701
IE	27.11.24	17:00 – 18:00	5 642	06.08.24	03:00 – 04:00	2 672
IT	19.07.24	12:00 – 13:00	50 046	01.01.24	03:00 – 04:00	17 312
LT	08.01.24	07:00 – 08:00	2 280	05.05.24	10:00 – 11:00	718
LU <sup>5</sup>	21.11.24	10:00 – 11:00	802	14.05.24	23:00 – 00:00	340
LV	08.01.24	08:00 – 09:00	1 243	25.06.24	01:00 – 02:00	459
MD	14.11.24	15:00 – 16:00	1 022	31.01.24	23:00 – 00:00	0
ME	17.08.24	02:00 – 03:00	767	02.04.24	03:00 – 04:00	120
MK	25.12.24	12:00 – 13:00	1 323	11.12.24	23:00 – 00:00	0
NL	08.01.24	16:00 – 17:00	19 477	09.06.24	05:00 – 06:00	9 135
NO	05.01.24	09:00 – 10:00	24 930	21.07.24	03:00 – 04:00	9 862
PL <sup>6</sup>	09.01.24	09:00 – 10:00	28 304	01.04.24	02:00 – 03:00	11 514
PT	08.01.24	19:00 – 20:00	9 705	12.05.24	05:00 – 06:00	3 927
RO	23.01.24	07:00 – 08:00	8 760	17.10.24	08:00 – 09:00	2 872
RS	12.01.24	16:00 – 17:00	5 706	06.05.24	03:00 – 04:00	2 192
SE	16.01.24	08:00 – 09:00	25 756	14.07.24	02:00 – 03:00	8 677
SI	22.01.24	07:00 – 08:00	2 316	04.05.24	12:00 – 13:00	635
SK	17.01.24	08:00 – 09:00	4 170	08.09.24	01:00 – 02:00	1 960
XK <sup>*</sup>	26.12.24	21:00 – 22:00	1 439	21.05.24	03:00 – 04:00	310

<sup>1</sup> This is the average of the hour.

<sup>2</sup> All times are in UTC.

<sup>3</sup> All values from Transparency Platform for Austria are for the control area AT and not the country AT (some power plants and lines located in Austria are part of the German control areas TenneT DE and TransnetBW).

<sup>4</sup> The presented load for BG includes power plant auxiliary consumption in it.

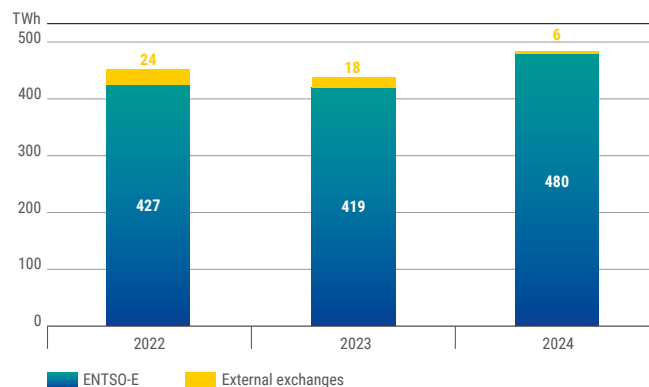
<sup>5</sup> All values from Transparency Platform for Luxembourg are for the monitoring area LU and not the country LU (the power plant Vianden and the lines around it located in Luxembourg are part of the German control area Amprion/Creos and some industrial consumers are directly connected to the French and to the Belgian control areas).

<sup>6</sup> Gross value

<sup>\*</sup> This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence.

## Development of exchanges

### Development of overall cross-border exchanges of ENTSO-E member TSOs



### Overview electricity exchanges for the past 3 years in GWh

	All Exchanges	ENTSO-E	External <sup>1</sup>
2022	450 653	426 631	24 022
2023	437 253	419 214	18 039
2024	485 603	480 050	5 553

<sup>1</sup> External exchanges include Andorra, Armenia, Azerbaijan, Belarus, Georgia, Iraq, Iran, Morocco, Russia and Syria.

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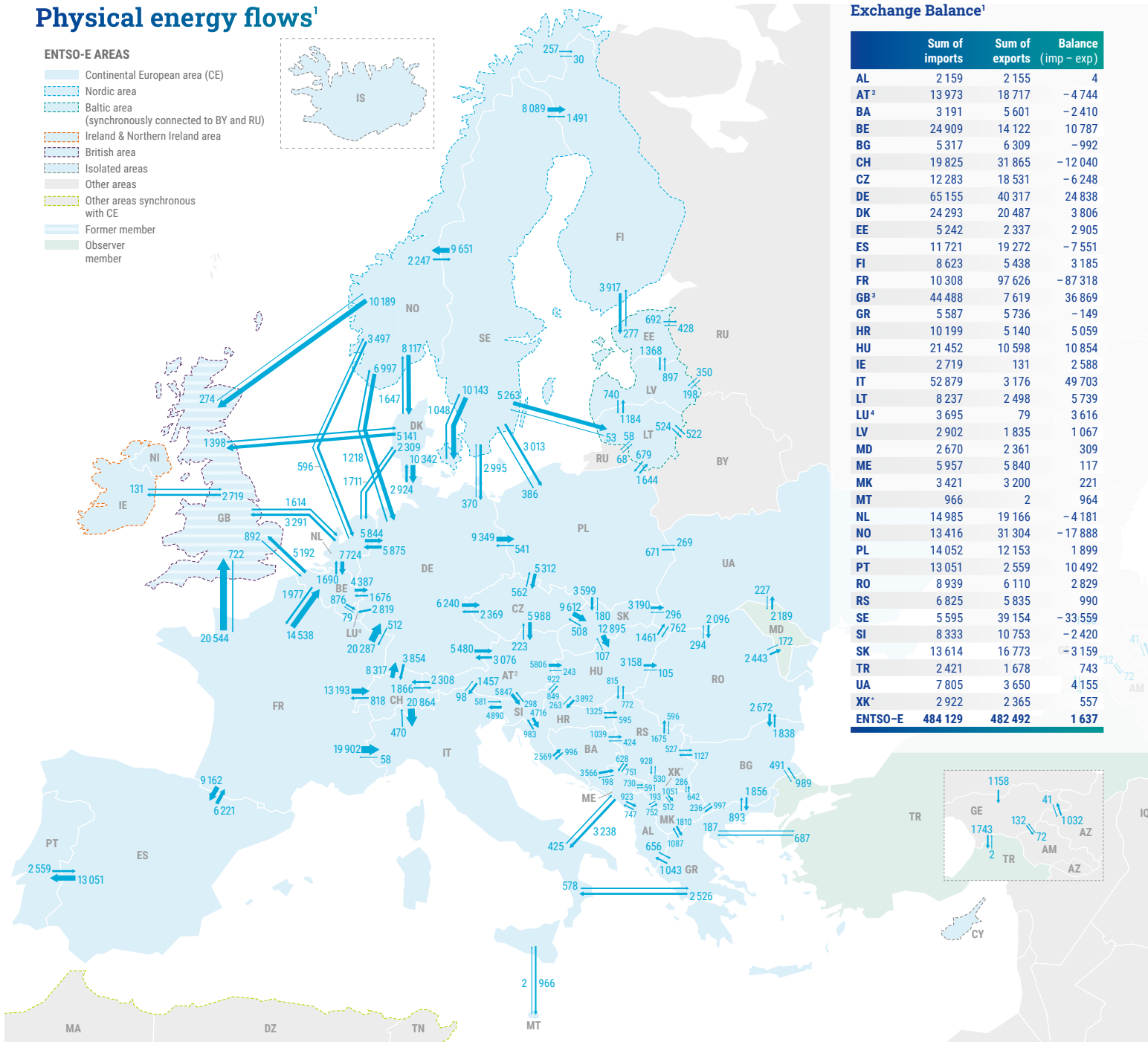
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# Physical energy flows<sup>1</sup>

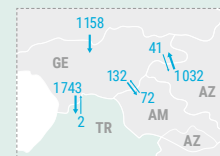
## ENTSO-E AREAS

- Continental European area (CE)
- Nordic area
- Baltic area (synchronously connected to BY and RU)
- Ireland & Northern Ireland area
- British area
- Isolated areas
- Other areas
- Other areas synchronous with CE
- Former member
- Observer member

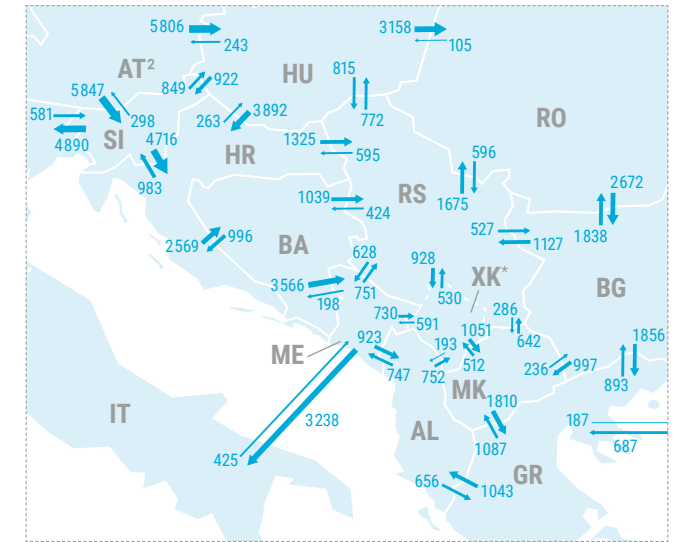


## Exchange Balance<sup>1</sup>

	Sum of imports	Sum of exports	Balance (imp - exp)
AL	2 159	2 155	4
AT <sup>2</sup>	13 973	18 717	-4 744
BA	3 191	5 601	-2 410
BE	24 909	14 122	10 787
BG	5 317	6 309	-992
CH	19 825	31 865	-12 040
CZ	12 283	18 531	-6 248
DE	65 155	40 317	24 838
DK	24 293	20 487	3 806
EE	5 242	2 337	2 905
ES	11 721	19 272	-7 551
FI	8 623	5 438	3 185
FR	10 308	97 626	-87 318
GB <sup>3</sup>	44 488	7 619	36 869
GR	5 587	5 736	-149
HR	10 199	5 140	5 059
HU	21 452	10 598	10 854
IE	2 719	131	2 588
IT	52 879	3 176	49 703
LT	8 237	2 498	5 739
LU <sup>4</sup>	3 695	79	3 616
LV	2 902	1 835	1 067
MD	2 670	2 361	309
ME	5 957	5 840	117
MK	3 421	3 200	221
MT	966	2	964
NL	14 985	19 166	-4 181
NO	13 416	31 304	-17 888
PL	14 052	12 153	1 899
PT	13 051	2 559	10 492
RO	8 939	6 110	2 829
RS	6 825	5 835	990
SE	5 595	39 154	-33 559
SI	8 333	10 753	-2 420
SK	13 614	16 773	-3 159
TR	2 421	1 678	743
UA	7 805	3 650	4 155
XK <sup>5</sup>	2 922	2 365	557
<b>ENTSO-E</b>	<b>484 129</b>	<b>482 492</b>	<b>1 637</b>



## Map section of the Balkans



- <sup>1</sup> Hourly netted physical flow values measured in GWh.
- <sup>2</sup> All values from Transparency Platform for Austria are for the control area AT and not the country AT (some power plants and lines located in Austria are part of the German control areas TenneT DE and TransnetBW).
- <sup>3</sup> All data with the country code GB represents the available data in ENTSO-E Transparency Platform for England, Northern Ireland, Scotland and Wales.
- <sup>4</sup> All values from Transparency Platform for Luxembourg are for the monitoring area LU and not the country LU (the power plant Vianden and the lines around it located in Luxembourg are part of the German control area Amprion/Creos and some industrial consumers are directly connected to the French and to the Belgian control areas).
- <sup>5</sup> This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence.



# Grid information

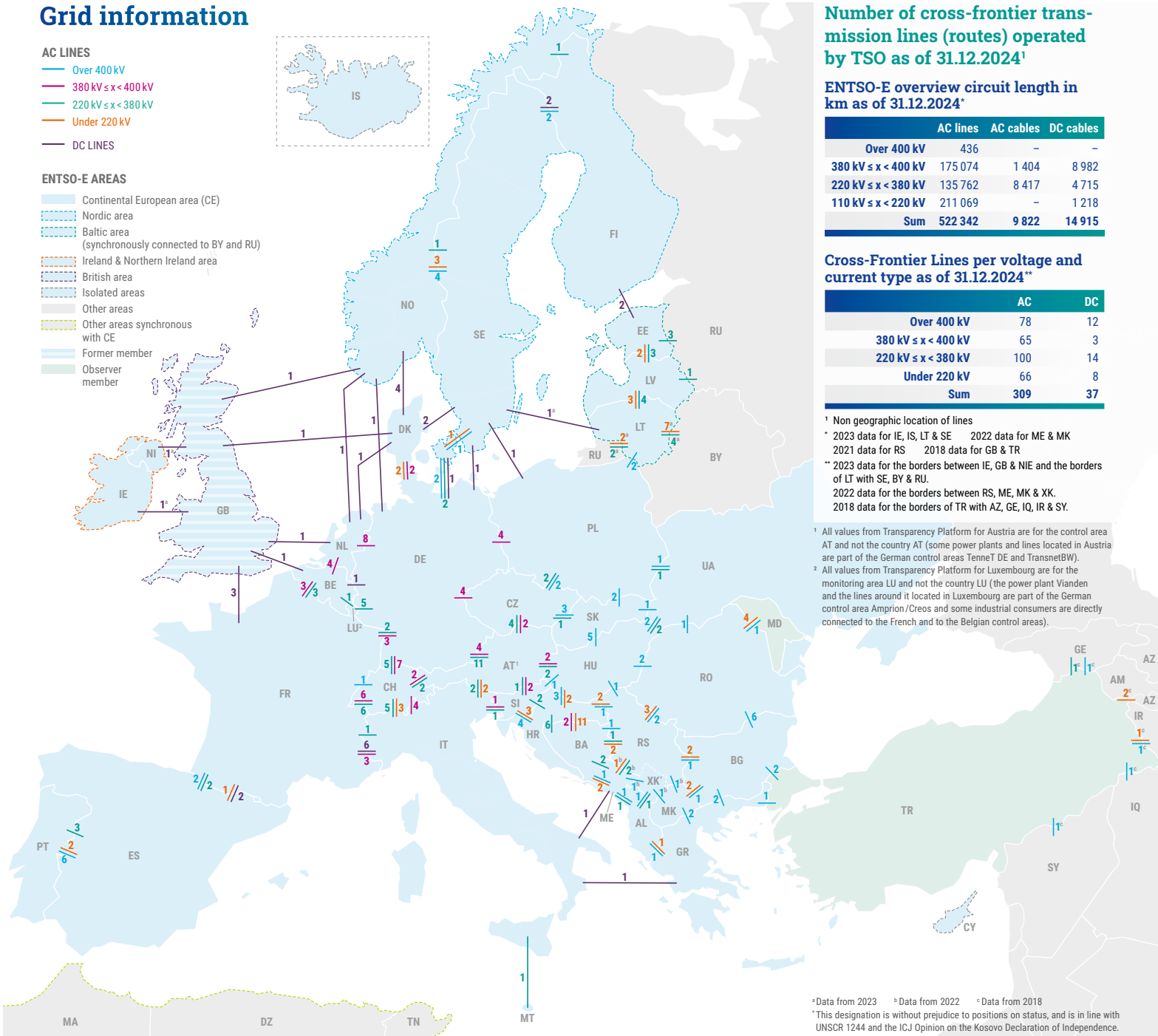
## AC LINES

- Over 400 kV
- 380 kV ≤ x < 400 kV
- 220 kV ≤ x < 380 kV
- Under 220 kV

## DC LINES

## ENTSO-E AREAS

- Continental European area (CE)
- Nordic area
- Baltic area  
(synchronously connected to BY and RU)
- Ireland & Northern Ireland area
- British area
- Isolated areas
- Other areas
- Other areas synchronous with CE
- Former member
- Observer member



## Number of cross-frontier transmission lines (routes) operated by TSO as of 31.12.2024<sup>1</sup>

### ENTSO-E overview circuit length in km as of 31.12.2024<sup>2</sup>

	AC lines	AC cables	DC cables
Over 400 kV	436	-	-
380 kV ≤ x < 400 kV	175 074	1 404	8 982
220 kV ≤ x < 380 kV	135 762	8 417	4 715
110 kV ≤ x < 220 kV	211 069	-	1 218
<b>Sum</b>	<b>522 342</b>	<b>9 822</b>	<b>14 915</b>

### Cross-Frontier Lines per voltage and current type as of 31.12.2024<sup>2\*</sup>

	AC	DC
Over 400 kV	78	12
380 kV ≤ x < 400 kV	65	3
220 kV ≤ x < 380 kV	100	14
Under 220 kV	66	8
<b>Sum</b>	<b>309</b>	<b>37</b>

<sup>1</sup> Non geographic location of lines

<sup>2</sup> 2023 data for IE, IS, LT & SE 2022 data for ME & MK 2021 data for RS 2018 data for GB & TR

<sup>2\*</sup> 2023 data for the borders between IE, GB & NIE and the borders of LT with SE, BY & RU. 2022 data for the borders between RS, ME, MK & XK. 2018 data for the borders of TR with AZ, GE, IQ, IR & SY.

<sup>1</sup> All values from Transparency Platform for Austria are for the control area AT and not the country AT (some power plants and lines located in Austria are part of the German control areas TenneT DE and TransnetBW).

<sup>2</sup> All values from Transparency Platform for Luxembourg are for the monitoring area LU and not the country LU (the power plant Vianden and the lines around it located in Luxembourg are part of the German control area Amprion/Creos and some industrial consumers are directly connected to the French and to the Belgian control areas).

<sup>a</sup>Data from 2023 <sup>b</sup>Data from 2022 <sup>c</sup>Data from 2018

<sup>1</sup>This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence.



# Members of ENTSO-E

<b>AL</b>	Albania	OST	OST sh.a – Albanian Transmission System Operator
<b>AT</b>	Austria	APG VUEN	Austrian Power Grid AG Vorarlberger Übertragungsnetz GmbH
<b>BA</b>	Bosnia and Herzegovina	NOS BiH	Nezavisni operator sustava u Bosni i Hercegovini
<b>BE</b>	Belgium	Elia	Elia System Operator SA
<b>BG</b>	Bulgaria	ESO	Electroenergien Sistemem Operator EAD (Електроенергиен системен оператор)
<b>CH</b>	Switzerland	Swissgrid	Swissgrid AG
<b>CY</b>	Cyprus	Cyprus TSO	Cyprus Transmission System Operator
<b>CZ</b>	Czech Republic	ČEPS	ČEPS a.s.
<b>DE</b>	Germany	TransnetBW TenneT DE Amprion 50Hertz	TransnetBW GmbH TenneT TSO GmbH Amprion GmbH 50Hertz Transmission GmbH
<b>DK</b>	Denmark	Energinet	Energinet
<b>EE</b>	Estonia	Elering	Elering AS
<b>ES</b>	Spain	REE	Red Eléctrica de España S.A.U.
<b>FI</b>	Finland	Fingrid	Fingrid Oyj
<b>FR</b>	France	RTE	Réseau de Transport d'Electricité
<b>GR</b>	Greece	IPTO	Independent Power Transmission Operator S.A.
<b>HR</b>	Croatia	HOPS	HOPS d.d.
<b>HU</b>	Hungary	MAVIR	MAVIR Magyar Villamosenergia-ipari Átviteli Rendszerirányító Zártkörűen Működő Részvénytársaság
<b>IE</b>	Ireland	EirGrid	EirGrid plc
<b>IS</b>	Iceland	Landsnet	Landsnet hf
<b>IT</b>	Italy	Terna	Terna – Rete Elettrica Nazionale SpA
<b>LT</b>	Lithuania	Litgrid	Litgrid AB
<b>LU</b>	Luxembourg	Creos Luxembourg	Creos Luxembourg S.A.
<b>LV</b>	Latvia	AST	AS Augstsprieguma tīkls
<b>ME</b>	Montenegro	CGES	Crnogorski elektroenergetski sistem AD
<b>MK</b>	Republic of North Macedonia	MEPSO	Transmission System Operator of the Republic of North Macedonia
<b>NI</b>	Northern Ireland <sup>1</sup>	SONI	System Operator for Northern Ireland Ltd
<b>NL</b>	The Netherlands	TenneT NL	TenneT TSO B.V.
<b>NO</b>	Norway	Statnett	Statnett SF
<b>PL</b>	Poland	PSE	Polskie Sieci Elektroenergetyczne S.A.
<b>PT</b>	Portugal	REN	Rede Eléctrica Nacional, S.A.
<b>RO</b>	Romania	Transelectrica	C.N. Transelectrica S.A.
<b>RS</b>	Serbia	EMS	Akcionarsko društvo Elektromreža Srbije
<b>SE</b>	Sweden	Svenska Kraftnät	Svenska Kraftnät
<b>SI</b>	Slovenia	ELES	ELES, d.o.o.
<b>SK</b>	Slovak Republic	SEPS	Slovenská elektrizačná prenosová sústava, a.s.
<b>UA</b>	Ukraine	Ukrenergo	National Power Company Ukrenergo
<b>Observer member</b>			
<b>MD</b>	Moldova	Moldelectrica	Moldelectrica
<b>TR</b>	Türkiye	TEİAŞ	Turkish Electricity Transmission Corporation

<sup>1</sup> In compliance with 12 February 2021 EC Notice to Stakeholders on the Withdrawal of the UK and EU rules in the field of the Internal Energy Market.

# Contact

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