

# STATISTICAL FACTSHEET 2018

Provisional values as of 5 June 2019



ENTSO-E in figures – Electricity system data of member TSOs' countries

ENTSO-E Transmission network losses percentage of consumption: 1.77 %

Net generation 2018

Consumption 2018<sup>1</sup>

All footnotes on page 7

## Net generation capacity 2018<sup>1</sup>

Country	Non renewable net generation		Nuclear		Fossil fuels		Of which Fossil Brown coal/Lignite		Of which Fossil Coal-derived gas		Of which Fossil Hard coal		Of which Fossil Oil		Of which Fossil Oil shale		Of which Fossil Peat		Of which Mixed fuels		Of which Other fossil fuels		Hydro pure pumped storage		Hydro mixed pumped storage (non renewable part)		Waste (non renewable part)		Other non-renewable		Renewable net generation		Wind offshore		Wind onshore		Solar PV		Solar Thermal		Biomass		Biogas		Geothermal		Renewable Waste		Hydro pure storage		Hydro run-of-river and pondage		Hydro mixed pumped storage (renewable part)		Hydro Marine (tidal/wave)		Other renewable		Not identified		Total INGC		Country
	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW										
AL	97	-	97	-	-	-	-	97	-	-	-	-	-	-	-	-	-	-	-	-	1835	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1932	AL															
AT <sup>9</sup>	6 574	-	6 469	-	-	4 853	598	168	-	-	436	414	-	-	-	-	-	-	105	18 839	-	2 887	1 193	-	501	85	1	22	-	5 714	8 436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25 413	AT <sup>9</sup>													
BA	1 993	-	1 888	1 888	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105	-	2 051	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4 044	BA															
BE	14 907	5 919	7 378	-	-	6 974	-	404	-	-	-	-	-	-	1 308	-	302	-	7 764	1 179	2 068	3 581	-	811	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22 671	BE																			
BG	7 435	1 950	4 488	3 558	-	755	175	-	-	-	-	-	-	-	864	133	-	-	4 020	-	700	1 052	-	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11 454	BG																				
CH <sup>10</sup>	3 544	3 333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	211	-	14 351	-	75	1 664	-	196	-	-	-	211	8152	4 053	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17 895	CH <sup>10</sup>														
CY <sup>11</sup>	1 478	-	1 478	-	-	-	-	1 478	-	-	-	-	-	-	-	-	-	-	-	290	-	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 768	CY <sup>11</sup>																			
CZ	16 568	4 040	11 256	8 450	380	1 226	1 200	-	-	31 614	24 645	4 440	-	-	1 361	-	5 294	1 062	892	-	115 112	6 385	51 844	43 922	-	7570	n.a.	42	892	205	3 781	n.a.	-	472	-	21 046	DE <sup>12</sup>																										
DK	6 536	-	6 536	-	-	1 829	3 656	1 007	-	-	44	-	-	-	-	-	-	-	-	9 519	1 701	4 423	1 000	-	1 954	112	-	323	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16 055	DK																	
EE	2 378	-	2 351	-	-	200	-	9	1 903	-	240	-	-	-	-	17	10	454	-	341	9	-	86	6	-	3	-	9	-	-	-	-	-	-	-	-	-	-	-	-	2 832	EE																					
ES	55 482	7 117	44 449	1 056	-	31 184	8 975	3 235	-	-	-	-	-	-	3 329	-	518	68	48 612	-	23 507	4 714	2 304	628	232	-	162	12 034	1 942	3 073	-	16	-	104 094	ES																												
FI	10 036	2 785	6 759	-	-	1 912	2 278	1 434	-	1 135	-	-	-	-	158	334	7 335	-	2 013	113	-	1 804	-	-	-	-	3 148	-	-	257	-	17 371	FI																														
FR <sup>13</sup>	81 718	63 130	18 588	-	-	12 151	2 997	3 441	-	-	-	-	-	-	-	-	-	-	51 151	-	15 084	8 526	-	691	452	-	883	-	21 092	2 455	240	1 728	-	132 869	FR <sup>13</sup>																												
GB	51 078	9 160	41 918	-	-	30 176	10 860	882	-	-	-	-	-	-	-	-	-	-	39 129	6 610	13 604	13 100	-	2 016	1	-	5	2 830	963	-	-	-	-	-	-	-	-	-	-	-	-	-	90 207	GB																			
GR <sup>***</sup>	8 172	-	8 172	3 904	-	4 269	-	-	-	-	-	-	-	-	-	-	-	-	8 220	-	2 082	2 448	-	60	-	-	-	2 470	230	699	-	230	-	16 392	GR <sup>***</sup>																												
HR	2 018	-	2 018	-	-	743	325	320	-	-	630	-	-	-	-	-	-	-	2 814	-	556	52	-	58	41	-	6	1 388	426	281	-	6	-	4 832	HR																												
HU	7 402	1 899	5 503	1 049	-	4 042	-	412	-	-	-	-	-	-	-	-	-	-	1 072	-	325	336	-	251	68	-	36	28	28	-	-	-	-	-	-	-	-	-	8 474	HU																							
IE <sup>14</sup>	6 546	-	6 214	-	-	4 215	855	916	-	228	-	-	292	-	40	-	3 696	-	3 080	-	-	-	-	-	-	-	40	-	238	-	-	338	269	10 510	IE <sup>14</sup>																												
IS	11	-	11	-	-	-	-	11	-	-	-	-	-	-	-	-	-	2 722	-	2	-	-	-	-	-	-	748	-	1 948	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2 733	IS																	
IT	74 399	-	67 129	-	1 308	50 778	6 444	8 599	-	-	-	-	-	-	4 753	-	212	2 305	56 537	-	10 310	20 120	-	1 559	1 375	962	212	5 162	12 768	4 015	-	54	-	130 935	IT																												
LT	2 718	-	1 760	-	-	568	-	-	-	1 192	-	900	-	20	37	835	-	533	83	-	52	41	-	-	-	-	127	-	-	-	-	-	-	-	-	-	-	-	-	3 553	LT																						
LU	1 453	-	136	-	-	136	-	-	-	-	-	-	-	-	1 296	-	21	-	291	-	120	128	-	-	11	-	-	17	15	-	-	-	-	-	-	-	-	-	-	-	1 744	LU																					
LV	1 121	-	1 121	-	-	1 031	-	-	-	-	90	-	-	-	-	-	-	1708	-	77	-	-	9	65	-	-	-	1 557	-	-	-	-	-	-	-	-	-	-	-	-	-	2 829	LV																				
ME <sup>***</sup>	880	-	220	220	-	-	-	-	-	-	-	-	-	-	-	660	-	-	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	952	ME <sup>***</sup>																									
MK	1 157	-	1 157	718	-	250	-	189	-	-	-	-	-	-	-	-	-	-	737	-	37	17	-	-	7	-	-	567	109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 894	MK																		
NL	20 687	486	20 201	-	-	15 570	4 631	-	-	-	-	-	-	-	-	-	-	-	9 844	957	3 669	3 937	-	485	-	-	758	-	38	-	-	-	-	-	-	-	-	-	-	-	30 531	NL																					
NO	542	-	542	-	-	542	-	-	-	-	-	-	-	-	-	-	-	-	34 480	-	1 749	45	-	-	7	-	51	25 385	5 801	1 388	0	53	-	35 022	NO																												
PL <sup>15</sup>	32 050	-	30 595	8 049	387	2 585	19 195	379	-	-	-	-	-	-	1 398	-	57	n.a.	7 828	-	5 608	399	-	719	145	-	-	177	402	378	-	-	-	-	-	-	-	-	-	-	-	39 878	PL <sup>15</sup>																				
PT	6 397	-	6 379	-	-	4 609	1 756	14	-	-	-	-	-	-	-	-	-	18	13 581	-	5 150	558	-	658	-	-	-	1 515	2 880	2 820	-	-	-	-	-	-	-	-	-	-	-	-	19 978	PT																			
RO	9 077	1 300	7 777	3 341	-	1 826	1 032	-	-	1 578	-	-	-	-	-	-	-	-	10 689	-	2 977	1 262	-	121	-	-	-	3 566	2 763	-	-	-	-	-	-	-	-	-	-	-	-	-	19 766	RO																			
RS	6 136	-	5 522	5 314	-	208	-	-	-	-	-	-	-	-	614	-	-	-	2 630	-	239	-	-	-	-	-	-	-	401	1 990	-	-	-	-	-	-	-	-	-	-	-	-	-	8 766	RS																		
SE	12 928	8 614	3 869	-	-	849	205	2 695	-	-	120	-	-	-	-	445	-	26 980	-	7 205	-	-	3 145	-	-	-	16 630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39 908	SE																				
SI	2 495	696	1 500	981	-	519	-	-	-	-	-	-	-	-	180	8	111	1 463	-	3	290	-	17	31	-	-	-	1 122	-	-	-	-	-	-	-	-	-	-	-	-	-	3 958	SI																				
SK	5 046	1 940	2 353	345	-	1 111	221	257	-	-	419	-	734	-	19	-	2 682	-	3	531	-	224	104	-	-	318	1 208	282	-	12	-	7 728	SK																														
TR	46 097	-	46 097	10 118	-	26 107	9 576	288	-	-	6	2	-	-	-	-	-	-	42 453	-	7 005	5 063	-	811	-	1 283	-	-	20 536	7 755	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88 551	TR																	
ENTSO-E	607 088	121 885	455 102	70 100	2 075	242 831	99 624	30 675	1 903	1 363	6 115	416	21 954	21 140	3 020	2 988	556 047	16 831	167 868	116 192	2 304	24 905	3 184	3 035	3 603	108 814	81 550	24 219	240	3 302	269	116 3405	ENTSO-E																														
%	52.18	10.48	39.12	6.03	0.18	20.87	8.56	2.64	0.16	0.12	0.53	0.04	1.89																																																		

A dash instead of a value means "Not expected", "n. a." means "Not available" on a monthly basis and "n. d.", "Not delivered".

All values are calculated to represent 100% of the monthly national values. When 0.0 is displayed, the values is higher than 0.0 but lower than 0.05.

<sup>2</sup> All "not available!" do not exist on monthly basis.

<sup>8</sup> Losses in the 110 kV grid are also included. Biogas generation is included into Biomass subcategory as there is no viable way to estimate it separately and correctly.

<sup>4</sup> RES (other than hydro), exchanges and losses from TSO data, rest from official statistics; non-renewable part of Hydro mixed pumped storage also contains renewable parts; biomass also contains biogas.

All data with the country code GB represents data as sum of England, Northern Ireland, Scotland and Wales.

<sup>5</sup> The values for Gas and Hard coal are derivative values.

<sup>7</sup> Generation data based on Polish monthly statistics and may not correspond with the data presented on PSE web site, where operational data is available only. Data is provisional, since not all information has been available on a monthly basis.

<sup>8</sup> All values are calculated to represent 100 % of the national values.

\* For Hydro Pure storage and Hydro mixed pumped storage (renewable part) no official separate data available

<sup>10</sup> 2016 data. Power data are not available in detailed curves split by production type. Due to that fact the Net generation capacity has been taken.

<sup>11</sup> Other RES estimated values – no detailed information

<sup>2</sup> Biomass also contains biogas. Hydro mixed pumped storage cannot be separated between renewable and non-renewable. Fossil Gas also contains Fossil Coal-derived Gas.

<sup>3</sup> "Not available" means "not expected". Other renewable means "hydro pure storage".

<sup>5</sup> NCC data based on Polish monthly statistics and was not harmonized with the data presented on BCE.

NCE data is based on FASB monthly statistics and may not correspond with the data presented on IES web site, where operational data is available only. Data is provisional, since not all information has been available on a monthly basis.

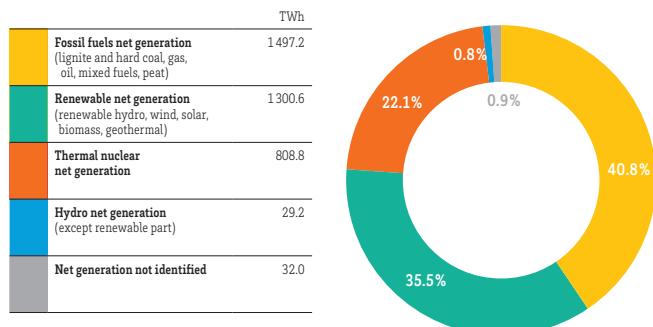
Calculated sum of the ENTSO-E member TSO's countries. From January 2017 on, ENTSO-E sum includes data from Albania.

The 28 member countries of the EU are Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and United Kingdom. Please note that, as it does not have a TSO, Malta is not a member of ENTSO-E and thus the Statistical Factsheet includes data from all EU countries except Malta.

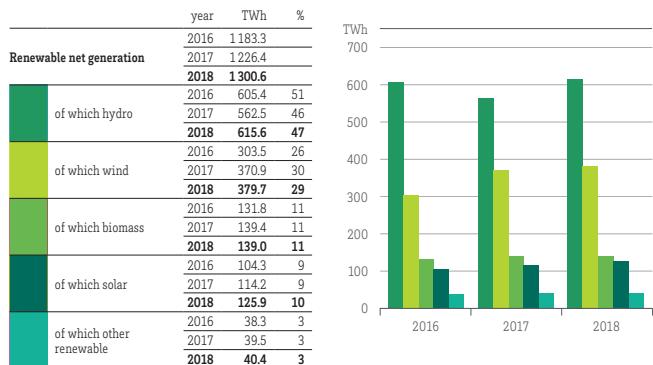
\*\*\* 2017 data

# Generation

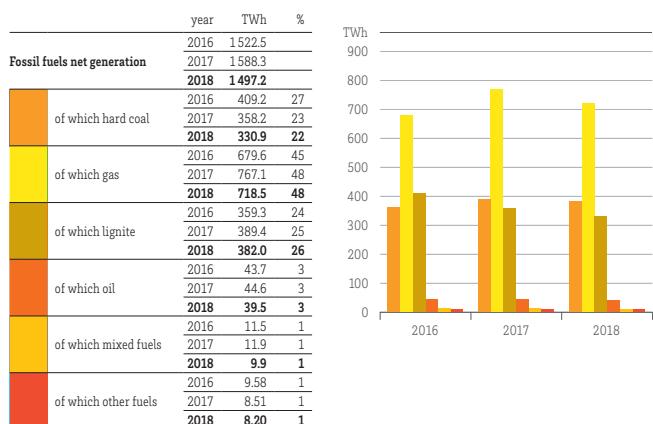
Generation mix in ENTSO-E member TSOs' countries in 2018<sup>1,2</sup>



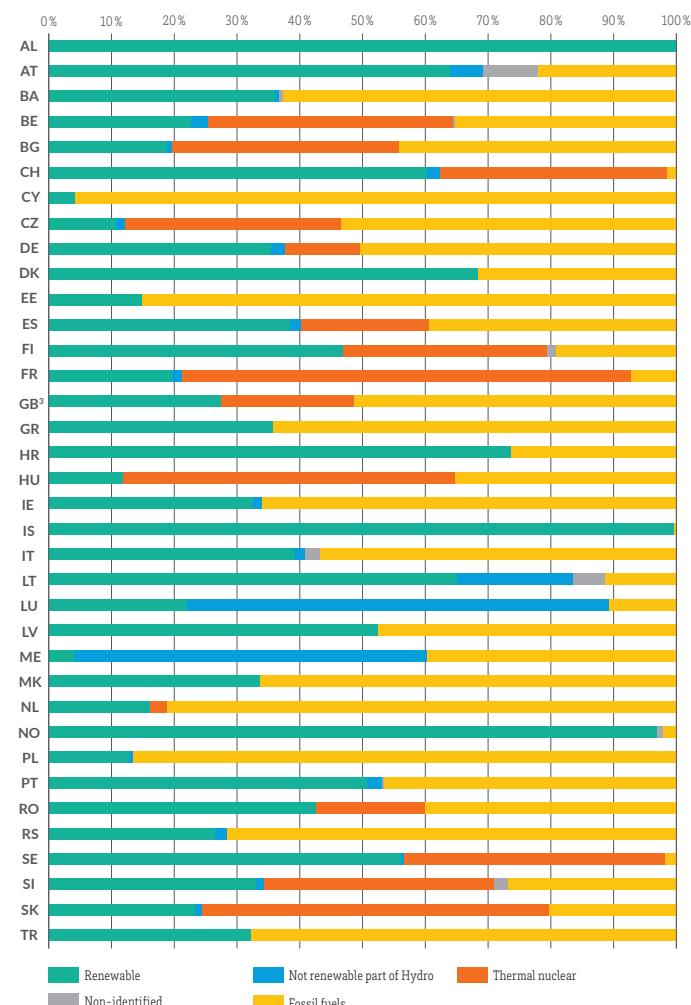
ENTSO-E renewable generation<sup>1</sup>



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



Share of energy produced of each member TSOs' country 2018 in %<sup>1,2</sup>



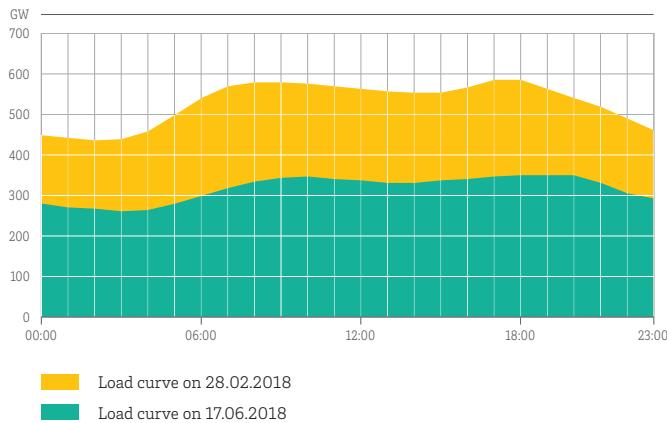
<sup>1</sup> All values are calculated to represent 100 % of the national values.

<sup>2</sup> Share of energy produced, based on the net generation for each TSO as a member of ENTSO-E per the table ENTSO-E in figures on page 2 – 7.

<sup>3</sup> All data with the country code GB represents data as sum of England, Northern Ireland, Scotland and Wales.

## ENTSO-E peak load 2018 (As of 05.06.2019)

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



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

28.02.2018	17.06.2018	28.02.2018	17.06.2018	28.02.2018	17.06.2018
18:00 – 19:00	05:00 – 06:00	18:00 – 19:00	05:00 – 06:00	18:00 – 19:00	05:00 – 06:00
AL	1354	477			
AT	11869	5149			
BA	2058	888			
BE	12 759	6 779			
BG	6 469	2 632			
CH	9 266	5 474			
CY	762	460			
CZ	10 894	4 854			
DE	78 926	36 571			
DK	6 076	2 425			
EE	1 170	770			
ES	35 608	20 780			
FI	14 152	7 116			
FR	96 328	31 437			
GB <sup>3</sup>	58 781	22 919			
GR	7 791	4 136			
HR	3 119	1 337			
HU	6 542	3 389			
IE	4 412	2 125			
IS	2 226	2 068			
IT	53 110	23 834			
LT	1 904	943			
LU	847	640			
LV	1 192	548			
<b>* ENTSO-E<sup>4</sup></b>					

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

<sup>2</sup> The values are not scaled to 100 % coverage ratio, only DE (98 %), LU (75 % from Apr. to Dec.) and PL (98 %) use a coverage ratio less than 100 %.

<sup>3</sup> All data with the country code GB represents data as sum of England, Northern Ireland, Scotland and Wales.

<sup>4</sup> Calculated load values as sum of the ENTSO-E member TSOs' countries.  
From January 2017 on, ENTSO-E sum includes data from Albania.

## Highest and lowest hourly load values of each country 2018 in MW<sup>1</sup>

	Highest load			Lowest load		
	Date	Time <sup>2</sup>	value (in MW)	Date	Time <sup>2</sup>	value (in MW)
AL	31.12.2018	17:00 – 18:00	1 480	02.01.2018	03:00 – 04:00	434
AT	13.12.2018	16:00 – 17:00	12 073	01.07.2018	04:00 – 05:00	4 844
BA	26.02.2018	18:00 – 19:00	2 080	02.05.2018	03:00 – 04:00	828
BE	19.11.2018	18:00 – 19:00	13 453	20.05.2018	14:00 – 15:00	6 067
BG	28.02.2018	18:00 – 19:00	6 469	07.05.2018	02:00 – 03:00	2 361
CH	01.03.2018	10:00 – 11:00	9 762	01.08.2018	06:00 – 07:00	4 476
CY	16.07.2018	14:00 – 15:00	958	08.04.2018	15:00 – 16:00	308
CZ	28.02.2018	09:00 – 10:00	11 142	08.07.2018	05:00 – 06:00	4 618
DE	28.02.2018	19:00 – 20:00	7 9074	20.05.2018	05:00 – 06:00	35 718
DK	28.02.2018	18:00 – 19:00	6 076	12.08.2018	05:00 – 06:00	2 294
EE	01.03.2018	08:00 – 09:00	1 532	24.05.2018	03:00 – 04:00	452
ES	08.02.2018	20:00 – 21:00	40 611	25.12.2018	05:00 – 06:00	18 031
FI	28.02.2018	08:00 – 09:00	14 155	24.06.2018	03:00 – 04:00	6 581
FR	28.02.2018	18:00 – 19:00	96 328	12.08.2018	06:00 – 07:00	30 448
GB <sup>3</sup>	26.02.2018	19:00 – 20:00	61 437	29.07.2018	06:00 – 07:00	20 369
GR	17.07.2018	12:00 – 13:00	9 062	09.04.2018	04:00 – 05:00	3 437
HR	26.02.2018	19:00 – 20:00	3 168	20.05.2018	05:00 – 06:00	1 249
HU	02.03.2018	11:00 – 12:00	6 572	21.05.2018	05:00 – 06:00	2 914
IE	04.12.2018	18:00 – 19:00	4 895	30.07.2018	04:00 – 05:00	2 044
IS	29.11.2018	11:00 – 12:00	2 450	17.02.2018	12:00 – 13:00	1 522
IT	01.08.2018	15:00 – 16:00	57 572	26.12.2018	03:00 – 04:00	19 511
LT	24.01.2018	09:00 – 10:00	1 999	16.04.2018	02:00 – 03:00	858
LU	26.02.2018	18:00 – 19:00	1 031	12.08.2018	04:00 – 05:00	401
LV	23.02.2018	08:00 – 09:00	1 252	24.06.2018	04:00 – 05:00	459
ME	09.08.2018	20:00 – 21:00	590	21.05.2018	05:00 – 06:00	228
MK	23.12.2018	17:00 – 18:00	1 388	07.05.2018	03:00 – 04:00	369
NL	12.12.2018	17:00 – 18:00	18 479	02.09.2018	05:00 – 06:00	9 245
NO	01.03.2018	08:00 – 09:00	24 108	29.07.2018	05:00 – 06:00	9 343
PL	28.02.2018	18:00 – 19:00	24 465	20.05.2018	05:00 – 06:00	11 339
PT	07.02.2018	19:00 – 20:00	8 721	14.10.2018	05:00 – 06:00	3 561
RO	27.02.2018	18:00 – 19:00	8 920	08.04.2018	13:00 – 14:00	4 091
RS	28.02.2018	19:00 – 20:00	6 867	02.05.2018	05:00 – 06:00	2 428
SE	28.02.2018	08:00 – 09:00	27 380	05.08.2018	05:00 – 06:00	9 164
SI	01.03.2018	12:00 – 13:00	2 381	02.05.2018	04:00 – 05:00	927
SK	27.02.2018	09:00 – 10:00	4 519	29.07.2018	05:00 – 06:00	2 395
TR	03.08.2018	15:00 – 16:00	45 996	16.06.2018	05:00 – 06:00	18 497
*	<b>28.02.2018</b>	<b>18:00 – 19:00</b>	<b>589 716</b>	<b>17.06.2018</b>	<b>05:00 – 06:00</b>	<b>264 157</b>

\* ENTSO-E<sup>4</sup>

<sup>1</sup> This is the average of the hour. The values are not scaled to 100 % coverage ratio, only DE (98 %), LU (75 % from Apr. to Dec.) and PL (98 %) use a coverage ratio less than 100 %.

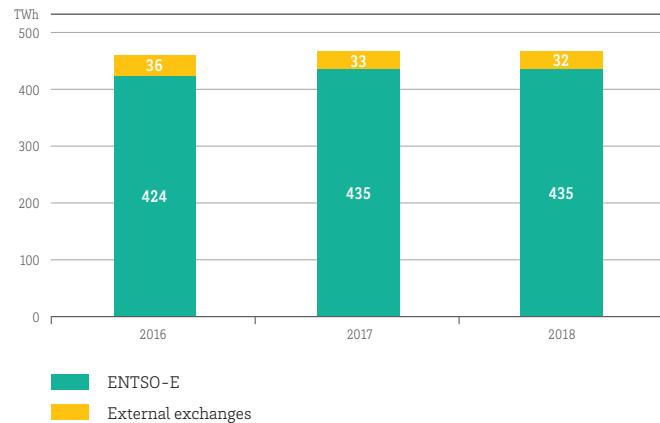
<sup>2</sup> All times are in CET/CEST

<sup>3</sup> All data with the country code GB represents monthly statistical data as sum of England, Northern Ireland, Scotland and Wales.

<sup>4</sup> Calculated load values as sum of the ENTSO-E member TSOs' countries.  
From January 2017 on, ENTSO-E sum includes data from Albania.

## Development of exchanges

Development of overall cross-border exchanges of ENTSO-E member TSOs' countries during the past 3 years



Overview electricity exchanges for the past 3 years in GWh

	All Exchanges	ENTSO-E	External <sup>1</sup>
2016	460 567	424 100	36 467
2017	467 334	434 828	32 506
2018	467 102	434 893	32 209

<sup>1</sup> External exchanges include Azerbaijan, Belarus, Georgia, Iran, Moldavia, Morocco, Russia and Ukraine

Publisher: Secretariat of ENTSO-E AISBL  
Avenue de Cortenbergh 100, 1000 Brussels – Belgium

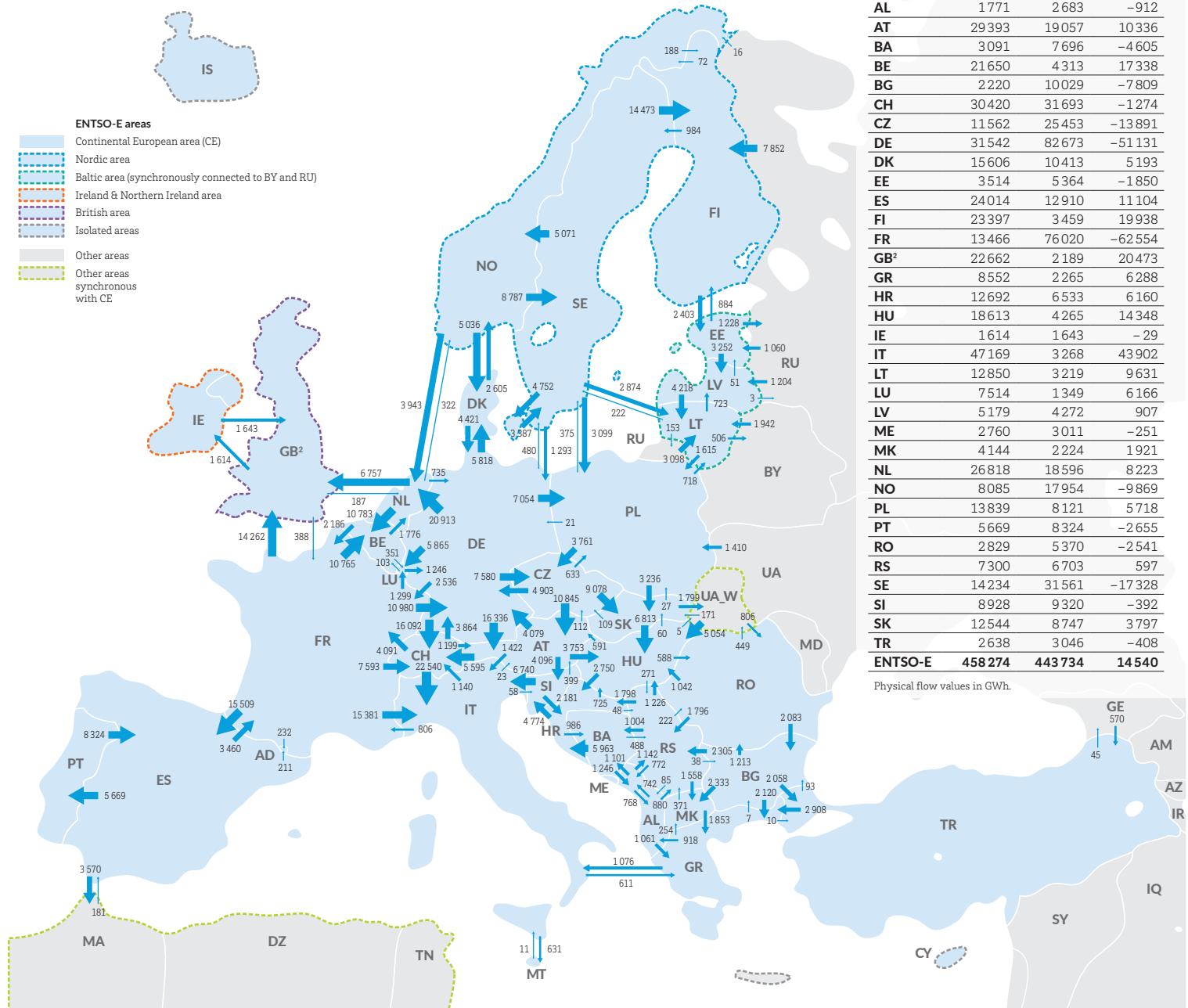
Contribution: ENTSO-E Statistical Data Correspondents and Data Expert Group members

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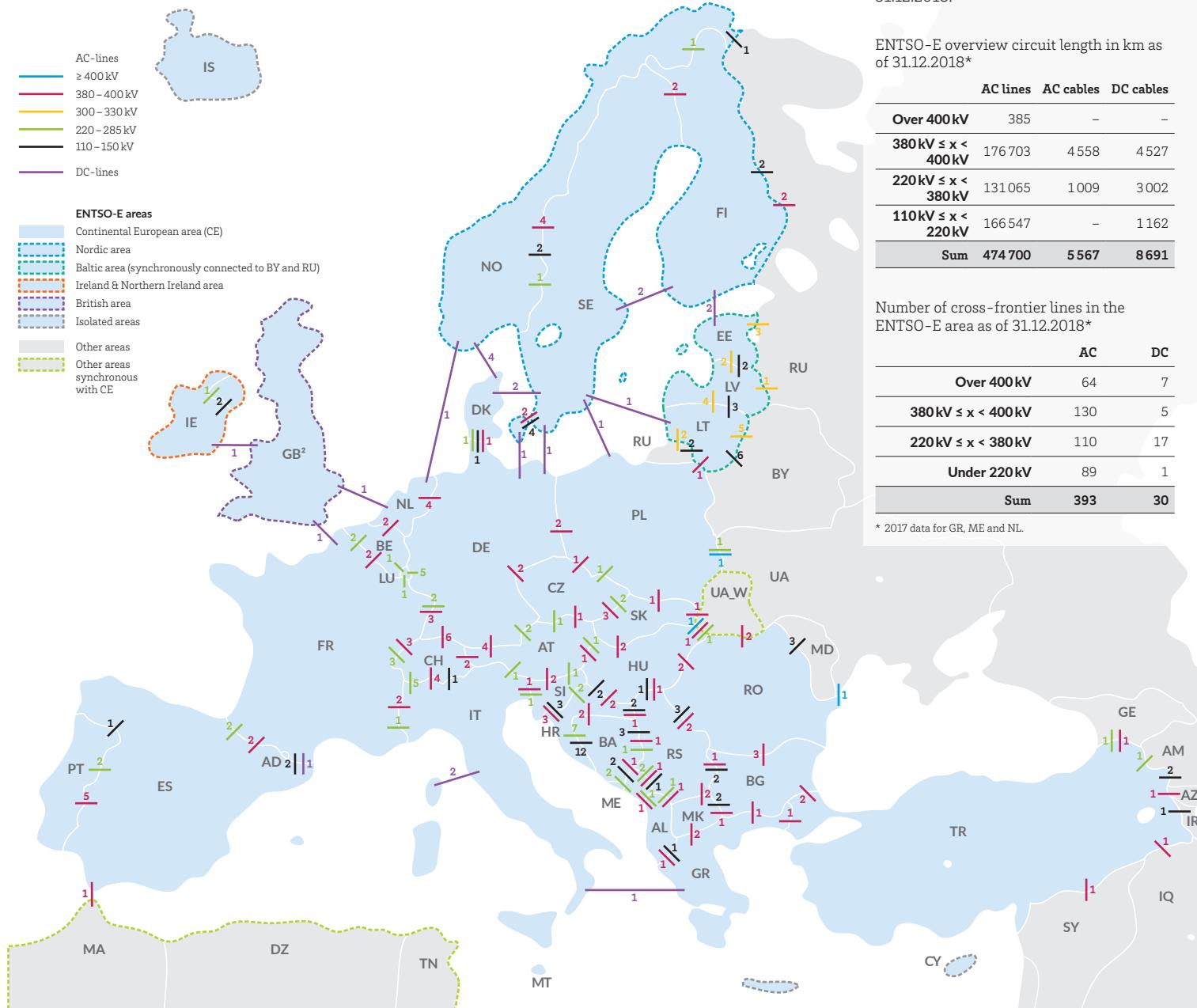
# Physical energy flows



<sup>1</sup> Consolidated yearly values might differ from detailed flow data from the ENTSO-E database due to export post consolidation taking into account national statistical resources.

<sup>2</sup> All data with the country code GB represents monthly statistical data as sum of England, Northern Ireland, Scotland and Wales.

## Grid information



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

<sup>2</sup> All data with the country code GB represents data as sum of England, Northern Ireland, Scotland and Wales.

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