

Monthly statistics



June 2014

European Network of
Transmission System Operators
for Electricity

entsoe

Monthly provisional values as of 13 October 2014

Data Expert Group

Monthly statistics - June 2014

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Monthly provisional values from the ENTSO-E statistical database as of 13 October 2014.

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General remarks and abbreviations used in the tables

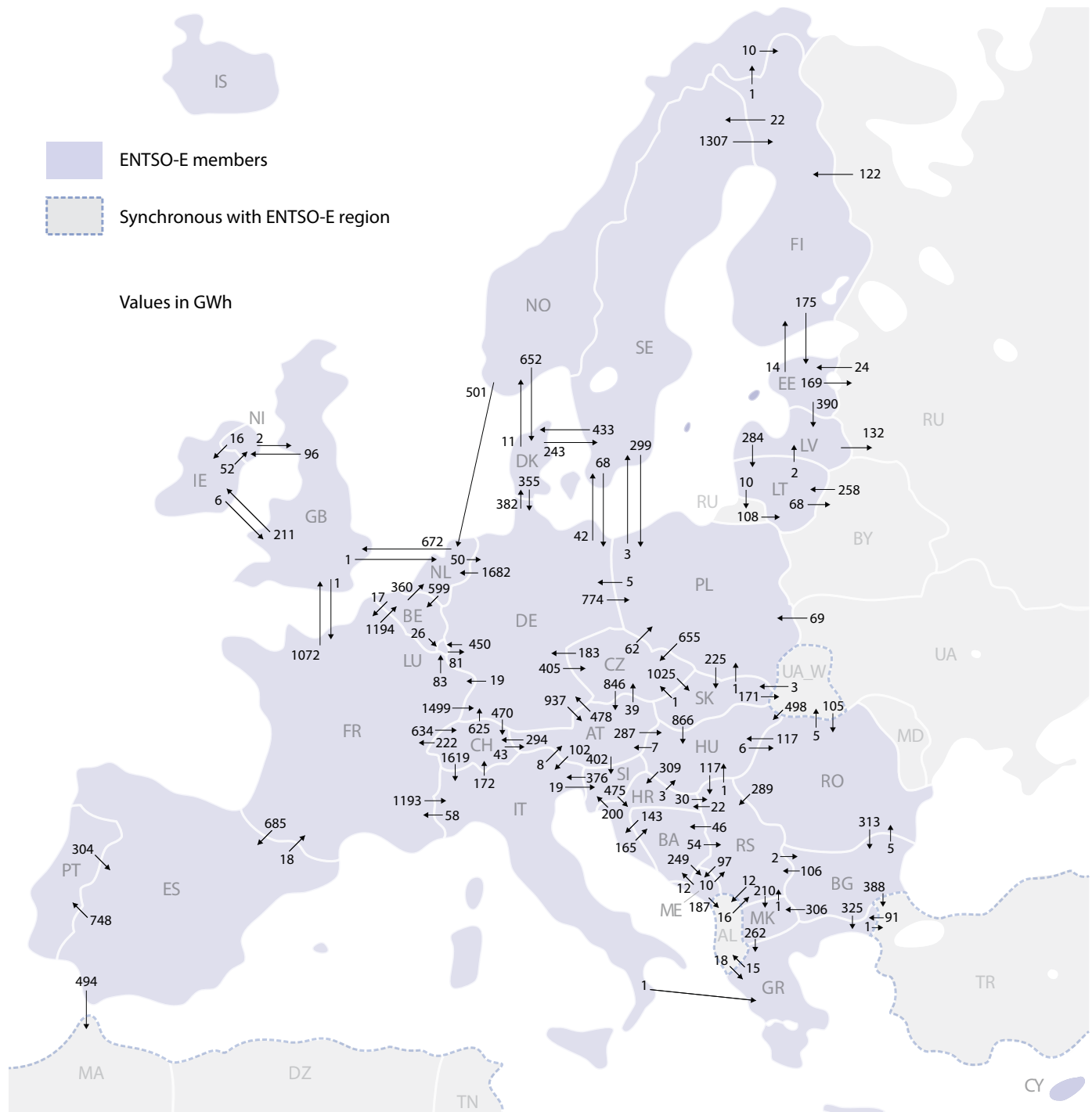
- Definitions of terms used in this report are available at <https://emr.entsoe.eu/>.
- All values of generation and consumption on page 4, 11 and 12 are calculated to represent 100% of the national values.
- All data with the country code GB represents monthly statistical data as sum of England, Scotland and Wales.
- All data with the country code NI represents the monthly statistical data of the Northern Ireland.
- CET: Central European Time.

1. Electricity supply situation of the countries

All values in GWh	Net generation																	Total	Exch. balance	Pumping	Consumption	
	Thermal nuclear	Fossil fuels	of which lignite	of which hard coal	of which gas	of which oil	of which mixed fuels	of which other fossil fuels	Hydro power	of which renewable	of which other hydro	Renewables	of which wind	of which solar	of which biomass	of which other renewables	Not clearly identifiable energy sources				var. [%]	(Compared to 1 year before)
AT ¹	0	514	0	27	224	52	0	211	3 831	3 510	321	387	154	0	0	233	839	5 571	322	458	5 435	1.8
BA	0	702	702	0	0	0	0	0	399	399	0	0	0	0	0	0	0	1 101	- 221	0	880	-2.7
BE ²	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
BG ³	1 320	939	723	99	117	0	0	0	575	538	31	272	103	145	10	0	0	3 106	- 819	45	2 242	-4.4
CH	1 655	161	0	0	0	0	0	161	3 987	0	3 987	154	11	0	0	143	0	5 957 ⁴	- 940	336	4 681	-3.0
CY	0	347	0	0	0	347	0	0	0	0	0	22	22	0	0	0	0	369	n.a.	0	369	0.3
CZ	2 381	3 021	0	0	414	0	0	2 607	204	0	204	305	0	0	0	305	0	5 911 ⁴	-1 042	64	4 805	3.7
DE ⁶	6 644	22 027	11 635	6 927	2 167	85	1 213	0	1 548	1 068	480	10 490	2 756	4 989	2 630	115	0	40 709 ⁴	-1 819	544	38 346	-6.0
DK	0	798	0	661	136	1	0	0	1	0	1	907	638	95	174	0	0	1 706 ⁴	859	0	2 565	48.9
EE	0	848	0	0	0	0	0	848	2	2	0	85	33	0	52	0	0	935	- 374	0	561	3.3
ES	3 425	9 894	500	4 762	3 860	772	0	0	2 684	2 459	225	5 388	3 311	1 585	492	0	20	21 411	- 286	325	20 800	2.3
FI	1 786	646	0	324	196	12	114	0	1 278	1 278	0	707	50	0	657	0	57	4 474	1 244	0	5 718	2.4
FR	30 995	1 148	0	354	516	278	0	0	5 087	4 645	442	2 234	957	776	501	0	0	39 464	-6 155	631	32 678	-1.1
GB ³	5 658	15 607	0	5 356	8 690	0	0	0	407	137	217	1 152	691	0	0	0	0	22 824	1 438	302	23 960	0.7
GR	0	2 281	1 847	0	434	0	0	0	408	54	354	583	223	344	16	0	0	3 272	680	2	3 950	-7.8
HR	0	222	0	204	18	0	0	0	478	478	0	52	52	0	0	0	0	752	547	18	1 281	-2.3
HU	963	644	467	67	107	3	0	0	19	19	0	175	36	1	138	0	0	1 801	1 331	0	3 132	1.2
IE	0	1 559	156	284	1 119	0	0	0	30	19	11	183	173	0	0	10	18	1 790	172	22	1 940	1.7
IS	0	0	0	0	0	0	0	0	984	984	0	377	0	0	0	377	0	1 361	n.a.	0	1 361	-1.6
IT	0	12 411	0	2 643	7 451	1 337	805	175	6 027	5 695	332	4 615	897	2 819	440	459	0	23 053	3 033	153	25 933	-0.8
LT	0	151	0	0	115	0	21	15	84	31	53	64	36	9	19	0	0	299	570	70	799	-0.1
LU	0	15	0	0	15	0	0	0	83	2	81	18	4	10	4	0	7	123	478	133	468	n.a.
LV	0	108	0	0	71	0	37	0	121	121	0	56	7	0	22	27	0	285	241	0	526	0.8
ME	0	0	0	0	0	0	0	0	216	108	108	0	0	0	0	0	0	216	136	0	352	57.8
MK	0	204	204	0	0	0	0	0	95	0	95	0	0	0	0	0	0	299	241	0	540	-3.4
NI	0	461	0	165	296	0	0	0	1	0	1	58	51	0	5	2	0	520	139	0	659	0.6
NL	97	6 299	0	0	0	0	0	6 299	4	4	0	982	393	7	582	0	0	7 382	1 203	0	8 585	-3.4
NO	0	255	0	0	255	0	0	0	10 356	10 356	0	107	107	0	0	0	0	10 718	-2 110	463	8 145	0.5
PL ⁷	0	9 746	3 992	5 031	172	0	0	551	203	171	32	1 029	418	0	611	0	0	10 978 ⁴	320	50	11 248	-0.4
PT	0	1 696	0	1 151	524	13	0	8	782	727	55	958	682	58	218	0	0	3 436 ⁴	444	69	3 811	0.6
RO	780	1 558	1 013	178	110	0	257	0	1 667	1 667	0	623	385	211	27	0	0	4 628	- 606	30	3 992	-0.2
RS	0	1 426	1 426	0	0	0	0	0	1 009	969	40	0	0	0	0	0	0	2 435	233	41	2 627	-3.3
SE	3 395	155	0	2	2	6	145	0	5 382	5 382	0	1 218	612	0	606	0	0	10 150	- 856	0	9 294	n.a.
SI	494	279	266	12	0	0	0	1	471	448	23	0	0	0	0	0	0	1 244	- 233	32	979	-1.0
SK	1 089	250	116	35	99	0	0	0	294	281	13	113	0	67	41	5	114	1 860 ⁴	214	19	2 055	1.1
ENTSO-E ⁸	64 205	98 094	23 047	28 337	28 438	2 906	2 650	11 155	48 874	41 589	7 226	34 105	12 802	11 116	7 245	1 676	1 055	246 333	-1 094	3 927	241 273	-0.7

¹ Renewable hydro: Production run-of-river plus production of storage and pumped storage minus 70% of pumped energy.² No data available for June 2014.³ The reported figures are best estimates based on actual measurements and extrapolations.⁴ Including deliveries from industry.⁵ Values estimated by CEPS.⁶ Wind, pv and biomass from TSO data, rest from official statistics.⁷ Operational data. Net generation of biomass includes energy from biogas and from biomass co-fired in conventional thermal units. Net generation of other fossil fuel represents industry generation⁸ ENTSO-E sum based on data from June 2014 or 2013 if no data from 2014.

2. Physical energy flows



Sum of physical energy flows between ENTSO-E countries: 32 047 GWh

Total physical energy flows: 35 011 GWh¹

Not ENTSO-E members: Albania, Belarus, Morocco, Republic of Moldavia, Republic of Turkey, Russia, Ukraine and Ukraine West.

These physical energy flows were measured on the cross-frontier transmission lines (≥ 110 kV) listed in table “Characteristics of the cross-frontier lines” published in the Yearly Statistic & Adequacy Retrospect. These values may differ from the official statistics and the exchange balances on page 3.

¹ Sum of physical energy flows without exchanges between NO-RU, AT-DE and RO-MD.

3. Overview of the detailed physical energy flows in GWh

	AT	BA	BE	BG	CH	CZ	DE	DK	EE	ES	FI	FR	GB	GR	HR	HU	IE	IT	LT	LU	LV	ME	MK	NI	NL	NO	PL	PT	RO	RS	SE	SI	SK	Other ¹	Sum exp.
AT					294	39	478									287		102														402			1 602
BA															143							249								54					446
BE												17								26					360										403
BG														325									306						5	106				388	1 130
CH	43						625					222						1 619																2 509	
CZ	846						183																			62						1 025		2 116	
DE	937				470	405		382				19								450					1 682		774				42			5 161	
DK							355																			11					243			609	
EE											14										390												169	573	
ES												18																748					494	1 260	
FI									175																	1					22			198	
FR			1 194		634		1 499			685			1 072					1 193		83														6 360	
GB												1					211							96	1									309	
GR																																	16	16	
HR		165														3														30		200		398	
HU	7														309												6	117						439	
IE													6											52										58	
IT	8				172							58		1																	19			258	
LT																					2												78	80	
LU							81																											81	
LV																			284															284	
ME		12																												10			187	209	
MK														262																1				263	
NI													2				16																	18	
NL			599				50						672																					1 321	
NO								652			10														501						n.a.			1 163	
PL						655	5																								3	225		888	
PT										304																								304	
RO				313												117															289			5	724
RS		46		2											22	1						97	210										12	390	
SE							68	433			1 307															n.a.	299							2 107	
SI															475			376																851	
SK						1										866											1						171	1 039	
Other ¹									24		122			109		498			366		132						69		105	16			3		1 444
Sum imp.	1 841	223	1 793	315	1 570	1 100	3 344	1 467	199	989	1 453	335	1 752	697	949	1 772	227	3 290	650	559	524	346	516	148	2 544	12	1 205	748	116	623	310	621	1 253	1 520	

¹ Other: Albania, Belarus, Morocco, Republic of Moldavia, Republic of Turkey, Russia, Ukraine and Ukraine-West.

4. Load flows (night) on 18.06.2014 at 03:00 a.m. CET in MW



Import (I) and Export (E) balance

Country	Balance	Country	Balance	Country	Balance	Country	Balance
AT	I = 1776	EE	E = 917	IS ¹	-	NO ²	n.a.
BA	E = 362	ES	E = 1481	IT	I = 5374	PL	I = 164
BE	I = 2731	FI	I = 736	LT	I = 1164	PT	I = 1515
BG	E = 883	FR	E = 11073	LU	I = 1104	RO	E = 446
CH	E = 204	GB	I = 2088	LV	I = 244	RS	I = 169
CY ¹	-	GR	I = 1074	ME	I = 97	SE	E = 2200
CZ	E = 1978	HR	I = 617	MK	I = 313	SI	E = 70
DE	E = 2144	HU	I = 1157	NI	E = 13	SK	I = 680

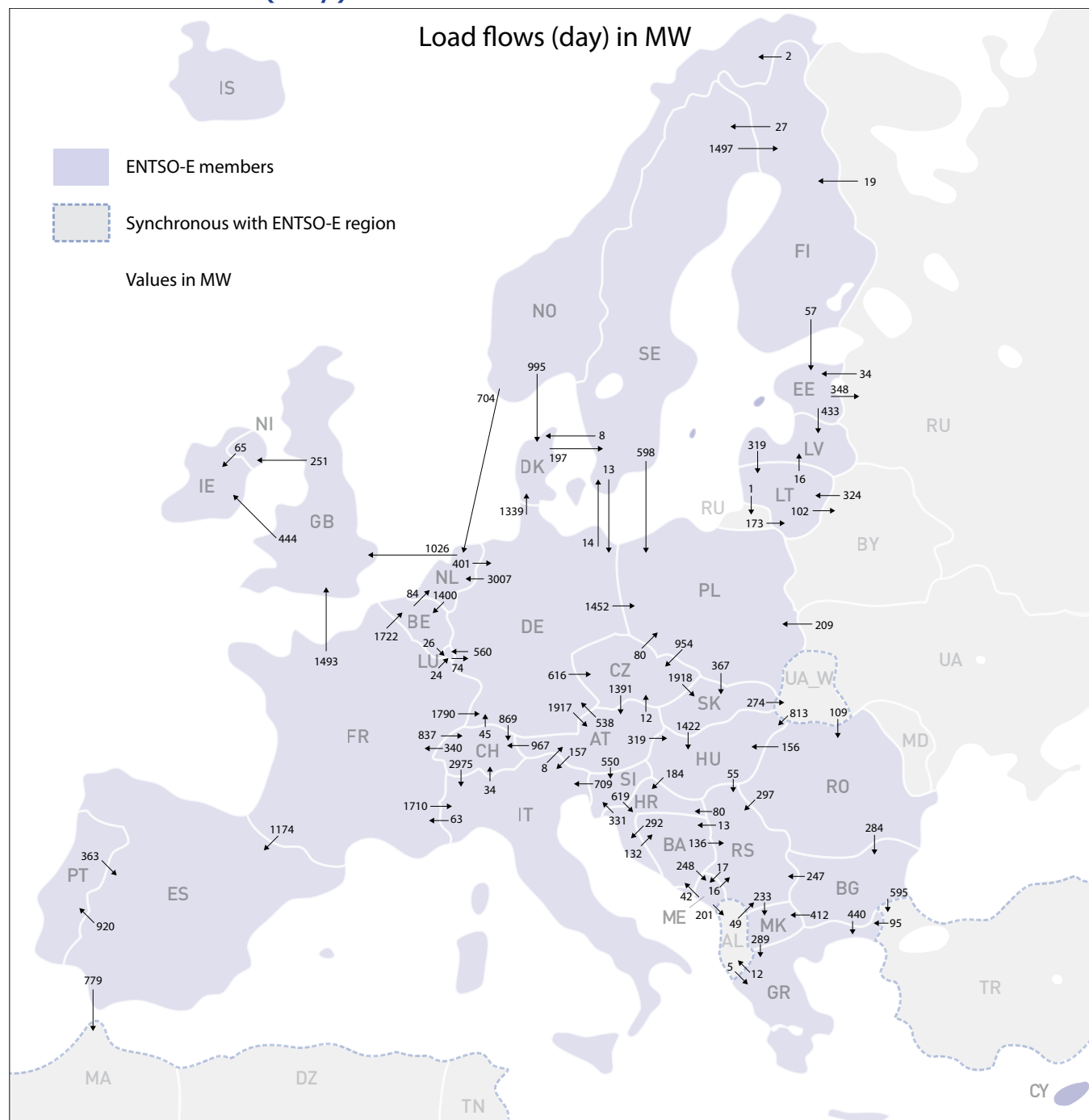
Sum of load flows (night) in MW: ENTSO-E: 46 317 Total: 50 503 ^{2,3}

¹ Cyprus and Iceland are isolated power systems and therefore are not connected to the ENTSO-E network.

² Without data between NO-RU.

³ Including synchronous operation with ENTSO-E region.

5. Load flows (day) on 18.06.2014 at 11:00 a.m. CET in MW



Import (I) and Export (E) balance

Country	Balance	Country	Balance	Country	Balance	Country	Balance
AT	I = 773	EE	E = 690	IS ¹	-	NO ²	n.a.
BA	E = 489	ES	E = 162	IT	I = 5446	PL	I = 1018
BE	I = 3012	FI	I = 1430	LT	I = 697	PT	I = 557
BG	E = 1410	FR	E = 8347	LU	I = 536	RO	E = 628
CH	E = 653	GB	I = 1824	LV	I = 236	RS	I = 457
CY ¹	-	GR	I = 817	ME	I = 6	SE	E = 1878
CZ	E = 1807	HR	I = 712	MK	I = 356	SI	E = 447
DE	E = 6913	HU	I = 2471	NI	I = 186	SK	I = 589
DK	I = 2145	IE	I = 509	NL	I = 968		

Sum of load flows (day) in MW:

ENTSO-E: 45 816

Total: 50 064 ^{2,3}

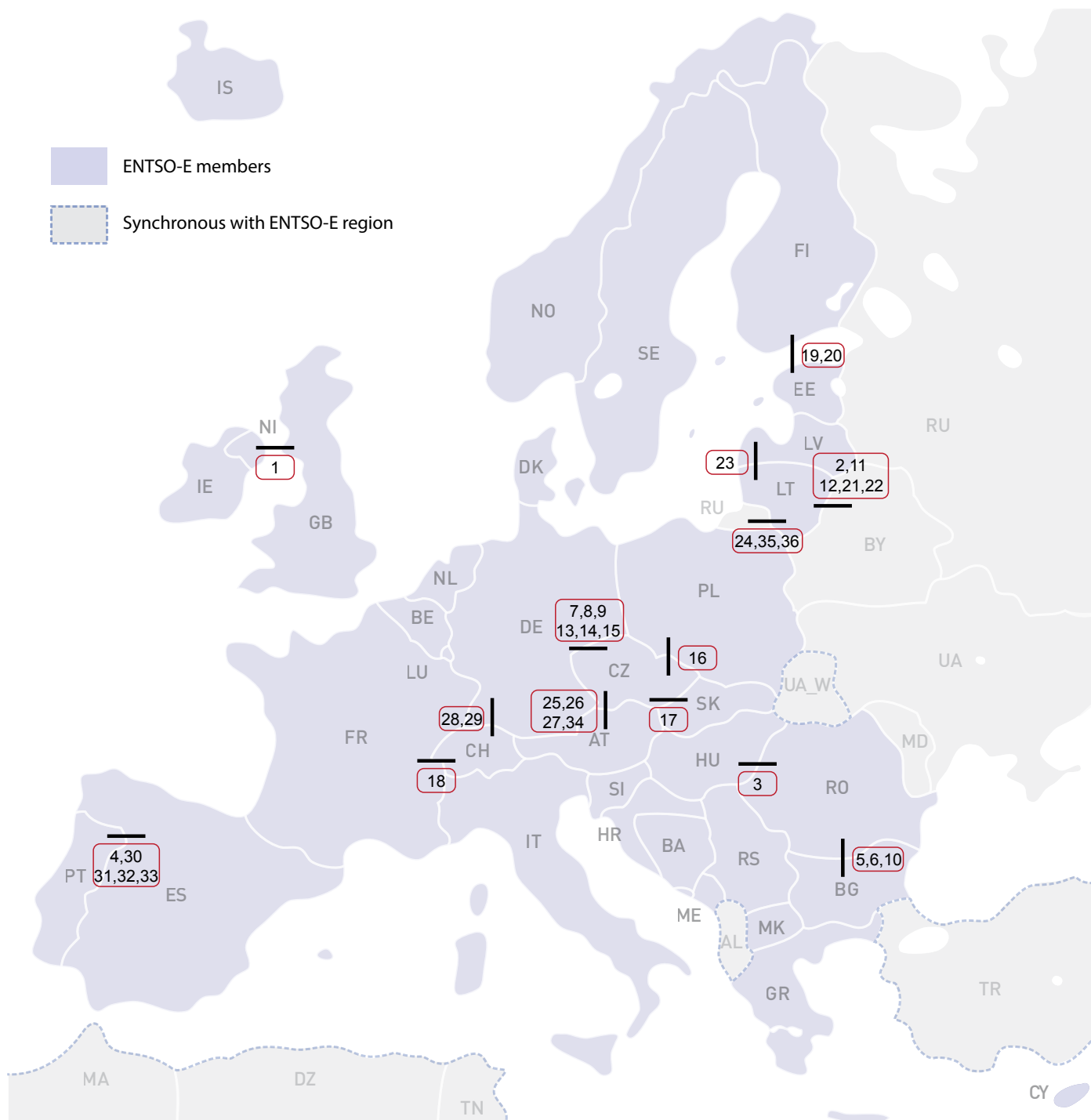
¹ Cyprus and Iceland are isolated power systems and therefore are not connected to the ENTSO-E network.

² Without data between NO-RU.

³ Including synchronous operation with ENTSO-E region.

6. Unavailability of international tie lines

(major events with sum over 1800 minutes)



Each accident is described on the following page.

6. Unavailability of international tie lines - details

(major events with sum over 1800 minutes)

#	Line	Substation1	Substation2	Voltage	Capacity	DateTimeStart	Reasons	SumTMK
1	222.2.1	Auchencrosh (GB)	Ballycronanmore (NI)	250 kV	250 MVA	01.06.2014 00:00	R9 R10	43200
2	869.1.1	Kalveliai (LT)	Asmena (BY)	110 kV	63 MVA	01.06.2014 00:00	R3	43200
3	730.1.1	Sandorfalva (HU)	Arad (RO)	400 kV	1330 MVA	16.06.2014 07:00	R1	21120
4	232.1.2	Aldeadávila (ES)	Pocinho (PT)	220 kV	374 MVA	16.06.2014 09:27	R9 R3	17759
5	277.1.2	Țânțăreni (RO)	Kozlodui (BG)	400 kV	1300 MVA	09.06.2014 07:37	R1	16676
6	277.1.2	Țânțăreni (RO)	Kozlodui (BG)	400 kV	1300 MVA	25.06.2014 08:47	R1	16676
7	322.1.1	Hradec Vychod (CZ)	Röhrsdorf (DE)	400 kV	1386 MVA	02.06.2014 08:04	R1	8599
8	322.1.1	Hradec Vychod (CZ)	Röhrsdorf (DE)	400 kV	1386 MVA	19.06.2014 06:29	R9	8599
9	322.1.1	Hradec Vychod (CZ)	Röhrsdorf (DE)	400 kV	1386 MVA	25.06.2014 07:02	R9	8599
10	277.1.1	Țânțăreni (RO)	Kozlodui (BG)	400 kV	1300 MVA	01.06.2014 00:01	R1	8159
11	862.1.1	IAE (LT)	Minskaja TEC-5 (BY)	330 kV	716 MVA	06.06.2014 17:36	R9	7539
12	862.1.1	IAE (LT)	Minskaja TEC-5 (BY)	330 kV	716 MVA	27.06.2014 16:00	R9	7539
13	322.1.2	Hradec Vychod (CZ)	Röhrsdorf (DE)	400 kV	1386 MVA	12.06.2014 06:16	R1	7122
14	322.1.2	Hradec Vychod (CZ)	Röhrsdorf (DE)	400 kV	1386 MVA	16.06.2014 00:00	R9	7122
15	322.1.2	Hradec Vychod (CZ)	Röhrsdorf (DE)	400 kV	1386 MVA	24.06.2014 07:24	R9	7122
16	460.1.1	Liskovec (CZ)	Bujaków (PL)	220 kV	400 MVA	01.06.2014 00:00	R3	6845
17	430.1.1	Sokolnice (CZ)	Stupava (SK)	400 kV	1386 MVA	09.06.2014 07:14	R1	6097
18	82.2.2	Verbois (CH)	Génissiat (FR)	220 kV	506 MVA	16.06.2014 06:44	R1	6071
19	820.1.1	Espoo (FI)	Harku (EE)	150 kV	350 MVA	10.06.2014 04:00	R1	5579
20	820.1.1	Espoo (FI)	Harku (EE)	150 kV	350 MVA	25.06.2014 15:31	R10	5579
21	861.1.1	IAE (LT)	Smorgon (BY)	330 kV	832 MVA	17.06.2014 09:29	R2	4699
22	868.1.1	Pabradė (LT)	Podolci (BY)	110 kV	45 MVA	23.06.2014 07:55	R9	4625
23	856.1.1	IAE (LT)	Daugavpils (LV)	110 kV	102 MVA	25.06.2014 05:58	R1	3482
24	883.1.1	Kybartai (LT)	Nesterovo (RU)	110 kV	76 MVA	09.06.2014 08:52	R2	3406
25	171.2.1	Bisamberg (AT)	Sokolnice (CZ)	220 kV	269 MVA	02.06.2014 07:25	R9	3371
26	171.2.1	Bisamberg (AT)	Sokolnice (CZ)	220 kV	269 MVA	03.06.2014 07:01	R9	3371
27	171.2.1	Bisamberg (AT)	Sokolnice (CZ)	220 kV	269 MVA	11.06.2014 06:37	R9	3371
28	104.1.1	Asphard (CH)	Kühmoos (DE)	380 kV	1330 MVA	23.06.2014 12:57	R1	3059
29	102.3.2	Laufenburg (CH)	Kühmoos (DE)	380 kV	1607 MVA	01.06.2014 00:00	R2	2460
30	232.2.1	Aldeadávila (ES)	Lagoaça (PT)	400 kV	1469 MVA	09.06.2014 10:01	R1	2142
31	232.2.1	Aldeadávila (ES)	Lagoaça (PT)	400 kV	1469 MVA	11.06.2014 09:19	R1	2142
32	232.2.1	Aldeadávila (ES)	Lagoaça (PT)	400 kV	1469 MVA	12.06.2014 09:32	R1	2142
33	232.2.1	Aldeadávila (ES)	Lagoaça (PT)	400 kV	1469 MVA	13.06.2014 09:18	R1	2142
34	171.1.1	Bisamberg (AT)	Sokolnice (CZ)	220 kV	269 MVA	02.06.2014 07:25	R9	2065
35	880.1.1	Bitėnai (LT)	Sovetsk (RU)	330 kV	696 MVA	27.06.2014 07:00	R2	1980
36	882.1.1	Kruonio HAE (LT)	Sovetsk (RU)	330 kV	696 MVA	23.06.2014 08:46	R1	1927

R1: Maintenance

R2: Repair

R3: New constructions

R4: Overload (also calculated break)

R5: False operation

R6: Failure in protection device or other element

R7: Outside impacts (animals, trees, fire, avalanches, ...)

R8: Very exceptional conditions (weather, natural disaster, ...)

R9: Other reasons

R10: Unknown reasons

7. Supply interruption

(major reported events)



R4: Overload (also calculated break)

R5: False operation

R6: Failure in protection device or other element

R7: Outside impacts (animals, trees, fire, avalanches, ...)

R8: Very exceptional conditions (weather, natural disaster, ...)

R9: Other reasons

R10: Unknown reasons

Information about incidents in other countries are not shown with energy not supply equal zero or unavailable in the database.

* Equivalent time of interruption: (year [in min] * energy not supplied) / consumption last 12 months.

8. Highest and lowest load values of the month

The following table shows highest and lowest load values¹ collected over the last 12 months and includes the reporting month for purposes of comparison.

	Highest load values in MW						Lowest load values in MW					
	Last 12 months			Reported month			Last 12 months			Reported month		
	Load value	Date	Time	Load value	Date	Time	Load value	Date	Time	Load value	Date	Time
AT	11 441	27/11/2013	18:00	9 909	12/06/2014	12:00	4 634	18/08/2013	04:00	4 756	08/06/2014	05:00
BA	2 074	24/12/2013	18:00	1 599	12/06/2014	22:00	845	19/05/2014	04:00	853	01/06/2014	06:00
BE ²	13 294	12/12/2013	18:00	11 656	20/06/2014	12:00	6 136	28/07/2013	07:00	6 379	23/06/2014	07:00
BG	6 985	31/01/2014	19:00	6 867	30/06/2014	19:00	2 630	02/06/2013	06:00	3 565	02/06/2014	04:00
CH	7 792	18/12/2013	09:00	5 966	10/06/2014	12:00	2 453	01/08/2013	08:00	3 559	08/06/2014	08:00
CY	815	30/08/2013	15:00	795	27/06/2014	15:00	254	01/12/2013	05:00	315	01/06/2014	06:00
CZ ⁴	10 093	28/11/2013	17:00	8 208	11/06/2014	13:00	3 952	07/07/2013	06:00	4 663	08/06/2014	06:00
DE	79 237	29/01/2014	19:00	76 039	11/06/2014	12:00	32 473	02/06/2013	07:00	38 403	09/06/2014	06:00
DK	6 002	30/01/2014	18:00	4 716	19/06/2014	12:00	1 897	29/06/2013	06:00	2 296	08/06/2014	06:00
EE	1 490	30/01/2014	17:00	1 001	03/06/2014	13:00	486	07/07/2013	04:00	509	24/06/2014	04:00
ES	39 411	28/11/2013	19:00	34 775	13/06/2014	13:00	17 599	08/06/2013	04:00	18 611	01/06/2014	07:00
FI	14 321	20/01/2014	08:00	9 384	03/06/2014	12:00	5 237	23/06/2013	05:00	5 898	22/06/2014	05:00
FR	85 125	28/11/2013	19:00	56 060	04/06/2014	12:00	29 869	11/08/2013	07:00	31 570	08/06/2014	06:00
GB	58 023	06/02/2014	19:00	42 355	04/06/2014	19:00	19 989	23/06/2013	07:00	20 519	29/06/2014	07:00
GR	8 525	12/12/2013	18:00	7 546	26/06/2014	21:00	2 343	20/04/2014	14:00	3 199	01/06/2014	15:00
HR	2 812	29/07/2013	14:00	2 439	12/06/2014	13:00	1 114	09/06/2013	06:00	1 210	02/06/2014	06:00
HU	5 863	12/12/2013	17:00	5 608	11/06/2014	13:00	2 828	21/08/2013	04:00	2 909	09/06/2014	06:00
IE	4 491	17/12/2013	19:00	3 476	25/06/2014	19:00	1 722	04/08/2013	08:00	1 739	29/06/2014	07:00
IS	2 207	09/12/2013	18:00	2 008	19/06/2014	11:00	1 337	14/05/2014	12:00	1 693	18/06/2014	12:00
IT	53 976	26/07/2013	12:00	51 533	12/06/2014	12:00	19 124	27/10/2013	04:00	20 637	02/06/2014	07:00
LT	1 834	23/01/2014	10:00	1 419	30/06/2014	13:00	745	21/07/2013	05:00	761	01/06/2014	05:00
LU	994	13/12/2013	18:00	729	04/06/2014	12:00	368	28/03/2014	00:00	391	23/06/2014	06:00
LV	1 331	30/01/2014	17:00	987	06/06/2014	10:00	436	22/07/2013	04:00	453	24/06/2014	04:00
ME	570	26/01/2014	20:00	430	12/06/2014	22:00	196	30/09/2013	05:00	227	06/06/2014	05:00
MK	1 527	22/12/2013	18:00	1 023	01/06/2014	21:00	520	03/06/2013	06:00	567	28/06/2014	06:00
NI	1 675	14/01/2014	19:00	1 265	25/06/2014	19:00	503	14/07/2013	07:00	529	29/06/2014	07:00
NL	18 409	11/12/2013	18:00	15 655	10/06/2014	15:00	8 136	22/06/2014	06:00	8 136	22/06/2014	06:00
NO	22 957	13/01/2014	09:00	13 392	18/06/2014	11:00	8 558	04/08/2013	06:00	9 242	09/06/2014	05:00
PL	23 715	29/01/2014	18:00	19 879	10/06/2014	13:00	9 761	21/04/2014	06:00	10 486	08/06/2014	06:00
PT	8 322	09/12/2013	21:00	6 842	16/06/2014	16:00	3 317	20/04/2014	08:00	3 576	01/06/2014	08:00
RO	8 114	10/12/2013	18:00	6 412	10/06/2014	21:00	3 704	21/04/2014	14:00	3 809	08/06/2014	06:00
RS	6 930	18/12/2013	18:00	4 820	11/06/2014	22:00	2 423	22/06/2014	06:00	2 423	22/06/2014	06:00
SE	24 735	13/01/2014	17:00	15 934	04/06/2014	11:00	8 696	27/07/2013	06:00	9 333	08/06/2014	06:00
SI	1 966	18/12/2013	18:00	1 751	05/06/2014	09:00	775	31/08/2013	07:00	970	01/06/2014	03:00
SK	4 126	17/12/2013	17:00	3 556	11/06/2014	13:00	2 172	15/06/2014	06:00	2 172	15/06/2014	06:00
ENTSO-E	520 463	29/01/2014	19:00	419 994	12/06/2014	12:00	230 694	09/06/2013	0.25	236 271	08/06/2014	06:00

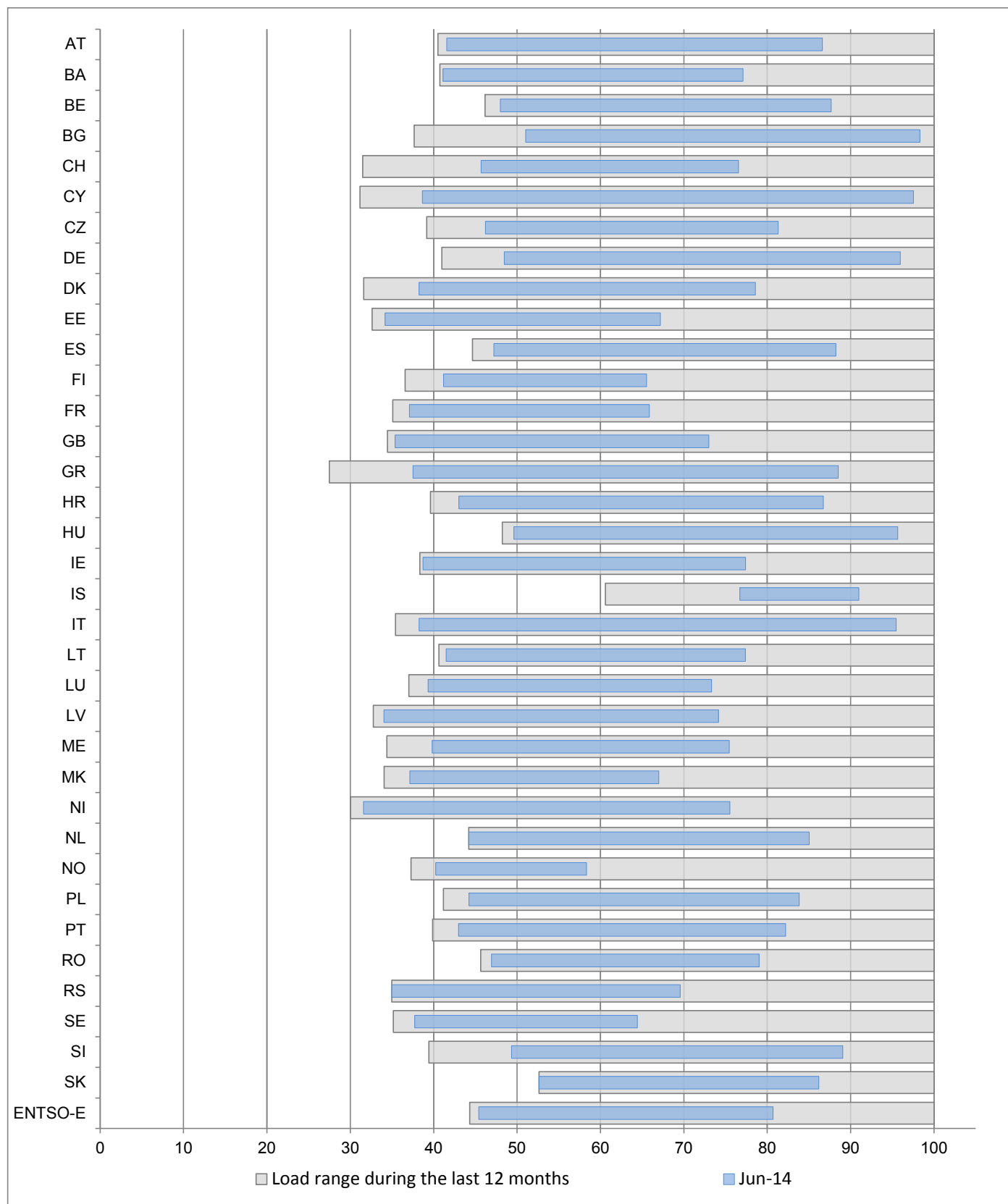
¹ All values are calculated to represent 100% of the national values.

² Values from 2013

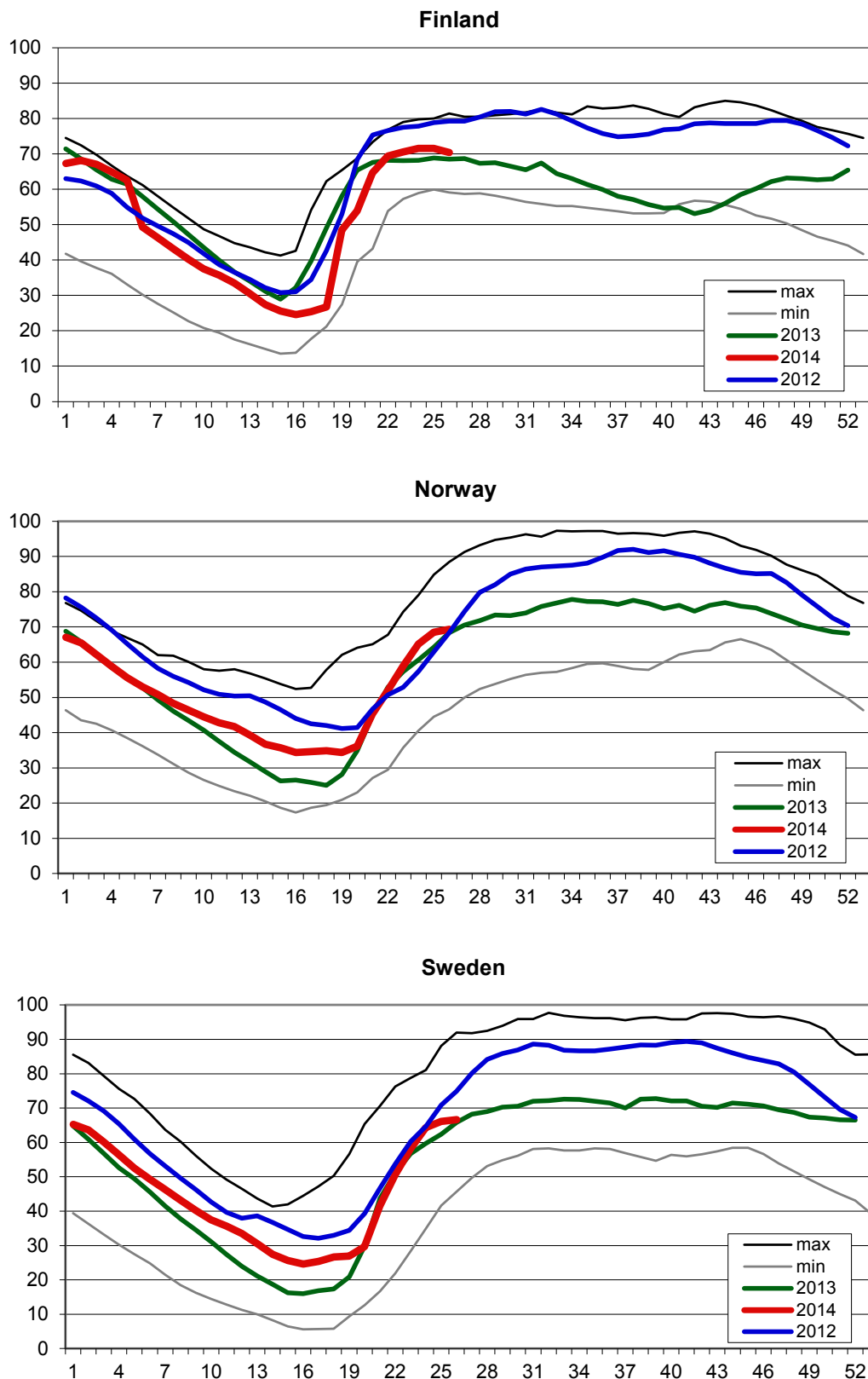
³ The reported figures are best estimates based on actual measurements and extrapolations.

⁴ Values estimated by CEPS.

The following diagram shows the percentual load range for the current month compared to the percentual load range of the last 12 months, the reference values being the highest load value of the last 12 months.



9. Water reservoirs Nordic



Finland: Reservoir capacity: 5.530 GWh Minimum and maximum limits are based on values for the years 1990-2002.

Norway: Reservoir capacity: 81.729 GWh The statistics are supposed to cover 97.1 percent of the total reservoir capacity. The total reservoir capacity is 84 147 GWh Minimum and maximum limits are based on values for the years 1990-2003.

Sweden: Reservoir capacity: 33.758 GWh Minimum and maximum limits are based on values for the years 1950-2006.

10. Appendix: Data sources and references

ENTSO-E data portal: <https://www.entsoe.eu/data/data-portal/>

Nord Pool Spot: <http://www.nordpoolspot.com/>

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