Statistical Yearbook 2008

Regional Group Continental Europe (former UCTE)
Produced under responsibility of ENTSO-E

European Network of
Transmission System Operators
for Electricity

entsoe

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Introduction

From UCTE towards ENTSO-E

This Statistical Yearbook 2008 is a traditional UCTE report, which is issued at a moment where UCTE has been wound up and where the new single European TSO association ENTSO-E was set-up. ENTSO-E covers a wider range of issues and a broader geographical scope (see www.entsoe.eu). The UCTE Statistical Yearbook brings a wide spectrum of retrospect figures on power systems of member countries like production, consumption, cross-border exchanges, network components etc.

This edition, reflecting the situation in 2008, only covers the former UCTE region, now the ENTSO-E continental Europe region. New data developments among all ENTSO-E members currently focus on the harmonization of data processes, data definitions and IT tools to allow soon the publication of ENTSO-E wide reports. Based on the outcome, new pan-European or regional statistical reports will be prepared for the coming years.

The newly created Data Expert Group within ENTSO-E is responsible to monitor all issues related to statistical data and the related reports.

What is ENTSO-E?

ENTSO-E stands for “European Network of Transmission System Operators for Electricity” and it is a new association of 42 European TSOs from 34 countries, which has been effectively working since 1 July 2009 and which replaced all formerly existing TSOs’ associations: ATSOI, BALTSO, NORDEL, UCTE, ETSO and UKTSOA. The main goal of ENTSO-E is to prepare the European TSO world for all challenges coming from the 3rd EU Energy Legislative Package before this is in effect.

What did UCTE use to be?

The “Union for the Co-ordination of Transmission of Electricity” (UCTE) was an association of transmission system operators in continental Europe, providing a reliable market base by efficient and secure electrical “power highways”.

For more than fifty years UCTE had been co-coordinating a variety of technical rules and recommendations regarding the international operation of high voltage grids that all work with one “heart beat”: the 50 Hz UCTE frequency.

The UCTE network used to grant safe electricity supply for some 500 million people in one of the biggest electrical synchronous interconnected systems worldwide.

Principles of data handling, data correspondents and Data Expert Group

Data Expert Group, Statistical Data Correspondents and the ENTSO-E Secretariat are in charge of statistical data in terms of methodological development, data processing and the production of various reports including this Statistical Yearbook.

Basically, the statistical data is regularly collected by data correspondents of the TSO members. The data is stored in the ENTSO-E statistical database, which can be accessed directly through web-based queries or via reports published on the website.

The figures indicated for various countries may differ from some other national statistics published because ENTSO-E statistics only describe that part of the electricity supply system, which concerns interconnected system operation. Consequently, this data may not represent the entire electricity supply system in some countries. A corresponding representativeness factor is provided wherever necessary.

Statistical Data Correspondents

The following Statistical Data Correspondents provided the data and can give additional information on the contents and interpretation of these statistics:

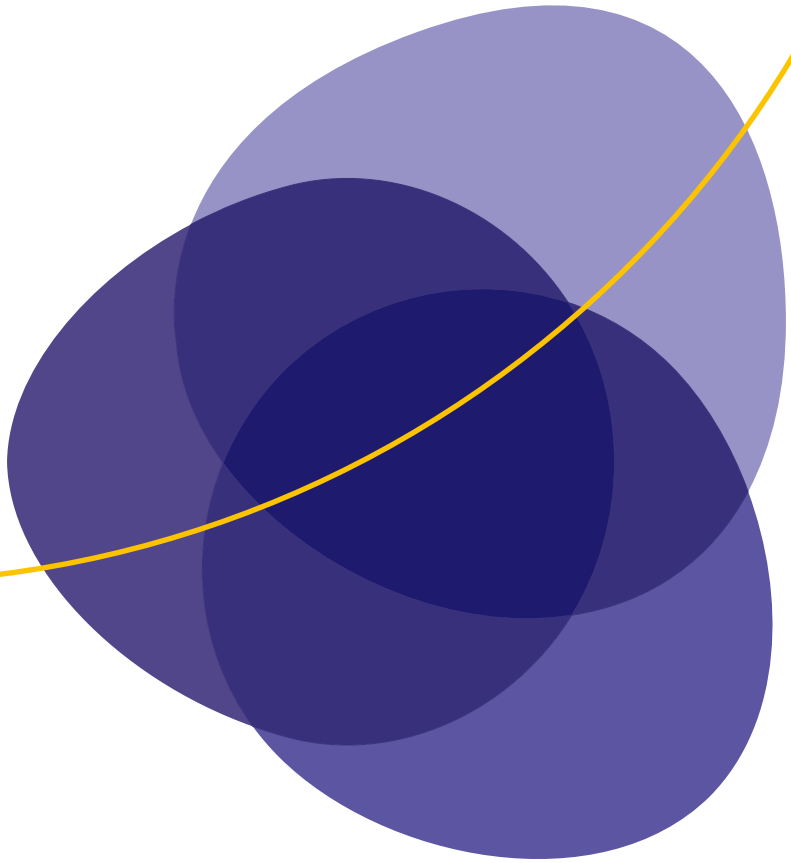
Country	Name	Company	E-Mail
AT	E.Reittinger-Hubmer	VERBUND APG	ernst.reittinger-hubmer@verbund.at
BA	S.Hadzic	ISO BiH	s.hadzic@zekc.ba
BE	V. Illegems	Elia	viviane.illegems@elia.be
BG	A. Georgiev	ESO EAD	georgiev@ndc.bg
CH	A. Mondovic	swissgrid	alexander.mondovic@swissgrid.ch
CZ	Z. Fucik	CEPS a.s.	fucik@ceps.cz
DE	B.Wegner	BDEW	bernd.wegner@bdew.de
DK_W	C.Rasch	Energinet.dk	chr@energinet.dk
ES	V. Rodriguez Garcia	REE	vrodriguez@ree.es
FR	R.Mattatia	RTE	robert.mattatia@rte-france.com
GR	A. Grassou	HTSO/DESMIE	agrassou@desmie.gr
HR	V. Grujic	HEP-OPS	vlado.grujic@hep.hr
HU	L. Galambos	MAVIR ZRt.	galambos@mavir.hu
IT	D.Camuffo	Terna S.p.A.	dionisio.camuffo@terna.it
LU	R.Gengler	CEGEDEL Net S.A.	gengler@creos.net
ME	L.Knezevic	EPCG	ljubo.knezevic@tso-epcg.com
MK	I. Netkova	MEPSO	izabelan@esmak.com.mk
NL	B.Derksen	TenneT TSO B.V.	b.derksen@tennet.org
PL	L. Jezynski	PSE Operator S.A.	lukasz.jezynski@pse-operator.pl
PT	J. Milheiro Batista	REN	milheiro.batista@ren.pt
RO	C.Radoi	Transelectrica	cristian.radoi@transelectrica.ro
RS	J. Janjanin	JP EMS	jadranka.janjanin@ems.rs
SI	D.Novakovic	ELES	dragan.novakovic@eles.si
SK	S.Dudasik	SEPS a.s.	dudasik_stanislav@sepsas.sk
UA_W	I.Saluk	NPC Ukrenergo	saluk@wps.com.ua

1 Monthly values

2 Load values

3 System information

4 Terminology



OPERATION AND PHYSICAL EXCHANGE BALANCE PER COUNTRY FOR THE YEARS 1998, 2007, 2008

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Third countries	1998	2007	2008
Bulgaria (BG)	BG		
Czech Republic (CZ)	CZ		
Hungary (HU)	HU		
Poland (PL)	PL		
Romania (RO)	RO		
Slovak Republic (SK)	SK		
Denmark West (DK_W)		DK_W	
Ukraine West (UA_W)		UA_W	UA_W
Albania (AL)	AL	AL	AL
Belarus (BY)		BY	BY
Denmark (DK)	DK		
Denmark East (DK_E)		DK_E	DK_E
Great Britain (GB)	GB	GB	GB
Morocco (MA)	MA	MA	MA
Republic of Moldavia (MD)		MD	MD
Norway (NO)		NO	NO
Sweden (SE)	SE	SE	SE
Republic of Turkey (TR)		TR	TR
Ukraine (UA)		UA	UA

Remark: When summing up the values, rounding deviations may occur.

[1] Denmark West represents the Western part of Denmark synchronously interconnected with UCTE (Jutland and Funen); from June 2007 full member of the UCTE association
[2] FYROM = Former Yugoslav Republic of Macedonia
[3] Generation and load values are operational data
[4] The country code UCTE represents the ENTSO-E Regional Group Continental Europe (former all countries of the Union for the Co-ordination of Transmission of Electricity)
[5] Ukraine West represents the so-called Burshtyn Island synchronously interconnected with UCTE

The following information for the individual countries is presented on the next pages:

Thermal nuclear net generation (national values)

Fossil fuels net generation (national values)

Hydraulic net generation (national values)

Other renewable net generation (national values)
- of which wind

Non-identifiable net generation (national values)

Total net electrical energy generation,
calculated to represent 100% of the national values

Physical import

Physical export

Total physical import/export balance,
described as index 2.15 of the statistical Terminology [1]

Consumption of pumps

National electrical consumption,
calculated to represent 100% of the national values

Consumption load at 3:00 a.m. on the 3rd Wednesday,
calculated to represent 100% of the national values

Consumption load at 11:00 a.m. on the 3rd Wednesday,
calculated to represent 100% of the national values

Highest load on the 3rd Wednesday,
calculated to represent 100% of the national values

Time of the highest load on the 3rd Wednesday

Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.
(collected and published until year 2006)

Physical exchanges in interconnected operation:
The exchanges CS, HR and SI in the year 1998 are corresponded to the historical country code YUGO and SIHR.

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[1] The imports/exports refer to values, that take into account the physical exchanges on the cross-frontier transmission lines, but in addition also: - exchange values on lines ≤ 110 kV outside of the interconnected transmission system.
- on the other hand values resulting with regard to international contracts (water claim).
For presenting the operation of the interconnected transmission system only interconnected transmission lines, which are registrered in these terms, are taken into consideration.

Overview UCTE in figures 2008

Countries		AT [1]	BA	BE	BG	CH	CZ	DE	DK_W	ES	FR	GR
Net production "All values are calculated to represent 100% of the national values"												
Nuclear power	GWh	0	0	43357	14759	26132	25016	141074	0	56482	418298	0
Fossil fuels	GWh	21553	8668	31269	22594	2121	49447	356366	15910	162892	53262	46717
Hydro power	GWh	36861	4552	1743	3202	37559	2367	23473	27	25380	67960	3298
Other renewable	GWh	0	0	4275	0	1155	257	66370	6804	40631	9595	1878
- of which wind power	GWh	0	0	627	0	24	242	40429	5209	31267	5557	1662
Non-identifiable	GWh	8358	0	0	0	0	0	0	0	297	0	0
Total net generation	GWh	66772	13220	80644	40555	66967	77087	587283[2]	22741	285681	549115	51893
Consumption "All values are calculated to represent 100% of the national values"												
Consumption	GWh	68378	11575	89462	34453	64434[3]	65141	557162	21712	270913	494499	56310
Transmission network losses percentage consumption	%											
Highest load on the 3rd Wednesday "All values are calculated to represent 100% of the national values"												
Highest load	MW	9149	1894	13300	6771	9858	9804	82231	3664	42588	84239	9007
Net generation capacity as of 31 December 2008 "All values are identical with the national values and there representativity"												
NGC Nuclear power	MW	0	0	5825	2000	3220	3537	20300	0	7465	63260	0
NGC Fossil fuels	MW	6344	1957	8335	6523	355	10578	72300	5049	44074	24718	8375
NGC Hydro power	MW	11853	2064	1412	2993	13475	2175	9700	9	19024	25392	3177
NGC Renewable ernergy sources	MW	985	0	1147	113	328	190	32400	2774	19706	4283	940
NGC Other sources	MW	0	0	0	0	212	0	0	0	85	0	0
NGC Total	MW	19182	4021	16719	11629	17590	16480	134700	7832	90354	117653	12492
Representativity of the values	%	100	100	100	99,9	100	100	100	100	100	100	100

[1] Net generating capacity data are the official values from E-Control as of 31 December 2006.
[2] Electricity generation and consumption also comprise shares of generation from industry's own power stations and feed-in from private generators (total of 12 monthly values).
The part of net electricity generation relevant to primary control power amounts to 553,9 TWh.
[3] Calculations based on the UCTE database differ from the official values from the Swiss Federal Office of Energy.
[4] Energy from co-firing (biomass combustion in lignite/hard coal power stations) is classified as energy from fossil fuels installation.
[5] Only energy from 100% renewable installations (e.g. wind farms, biogas) is classified as energy from renwable (co-firing is not included).

Percentage as referred to the national values

Countries		AT	BA	BE	BG	CH	CZ	DE	DK_W	ES	FR	GR
Nuclear power	%	100	100	100	100	100	100	100	100	100	100	100
Fossil fuels	%	100	100	100	100	100	100	100	100	97	100	100
Hydro prower	%	100	100	100	100	100	100	100	100	100	100	100
Other renewable	%	100	100	100	100	100	100	100	100	95	100	100
Non-identifiable	%	100	100	100	100	100	100	100	100	100	100	100
Consumption	%	100	100	100	100	100	100	100	100	98	100	100
Load	%	100	100	100	100	100	100	91	100	98	100	100

HR	HU	IT	LU	ME	MK	NL	PL	PT	RO	RS	SI	SK	UCTE	UA_W
0	13967	0	0	0	0	3933	0	0	10329	0	5970	15483	**774800**	0
6090	19375	250266	2379	1155	4982	91451	140812 [4]	28929	32636	29383	4838	7288	**1390383**	8094
5284	208	46695	947	1536	881	102	2668	7100	16794	10020	3506	4306	**306469**	153
44	1460	10248	153	0	0	8866	948 [5]	7358	11	0	0	311	**160364**	0
41	181	4852	61	0	0	4250	796	5696	11	0	0	7	**100912**	0
0	2372	0	0	0	0	0	0	0	0	0	0	0	**11027**	0
11418	37382	307209	3479	2691	5863	104352	144428	43387	59770	39403	14314	27388	**2643042**	8247
17861	41284	339481	6674	4583	8643	120194	142852	52177	55217	38982	12686	27635	**2602308**	4155
													1,3	
2839	6286	52632	1052	715	1431	17712	21901	8857	8439	6520	1918	4275	**392362**	944
0	1822	0	0	0	0	485	0	0	1300	0	700	2200	**112114**	0
1700	5360	72723	498	210	907	21702	29709	6829	9431	5524	1315	2714	**347230**	2347
2007	50	21275	1128	660	503	37	2327	4963	5843	2831	879	2478	**136255**	27
55	518	4627	80	0	0	3036	473	3131	7	0	0	61	**74854**	0
0	791	0	0	0	0	0	0	0	0	0	0	0	**1088**	0
3762	8541	98625	1706	870	1410	25260	32509	14923	16581	8355	2894	7453	**671541**	2374
100	100	100	100	100	100	100	100	97	100	100	100	100		100

HR	HU	IT	LU	ME	MK	NL	PL	PT	RO	RS	SI	SK	UA_W
100	100	100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	94	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	97	100	100	100	100	100
100	100	100	100	100	100	100	100	97	100	100	100	100	100

Austria

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	0
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	12411
			2007	20983
			2008	21553
Hydraulic net generation	GWh	Σ	1998	35967
			2007	34793
			2008	36861
Other renewable net generation [1]	GWh	Σ	2007	0
			2008	0
- of which wind	GWh	Σ	2007	0
			2008	0
Non-identifiable net generation [1]	GWh	Σ	2007	8031
			2008	8358
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	56384
			2007	63807
			2008	66772
Physical import	GWh	Σ	1998	10439
			2007	23979
			2008	22033
Physical export	GWh	Σ	1998	10871
			2007	17067
			2008	16528
Total physical import/export balance	GWh	Σ	1998	-289
			2007	6618
			2008	4879
Consumption of pumps	GWh	Σ	1998	1574
			2007	2986
			2008	3273
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	54521
			2007	67439
			2008	68378
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	6154
			2007	6749
			2008	6339
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	8876
			2007	8914
			2008	8917
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	9019
			2007	9365
			2008	9149
Time of highest load on the 3rd Wednesday		CET	1998	18:00
			2007	18:00
			2008	18:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	8442

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1873	1866	1632	771	389	299	342	535	664	888	1344	1808
2100	1911	1632	1313	819	1271	1450	1365	1566	2502	2523	2531
2463	2387	2007	1499	912	991	1282	1347	1907	2320	2174	2264
2265	1757	2325	2789	3296	3709	3918	3284	3431	3304	3157	2732
2361	2242	2833	2762	3153	3203	3511	3121	3505	2875	2655	2572
2384	2135	2877	3129	4016	4149	4240	3948	2828	2481	2246	2428
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
787	507	649	655	752	588	701	574	762	618	863	575
674	566	686	701	762	689	711	713	631	611	712	902
4810	4212	4655	4188	4334	4659	4952	4492	4761	4931	5172	5218
5248	4660	5114	4730	4724	5062	5662	5060	5833	5995	6041	5678
5521	5088	5570	5329	5690	5829	6233	6008	5366	5412	5132	5594
1059	977	1038	1068	825	576	665	814	805	801	759	1052
2818	2313	2462	2235	2058	1517	1419	1452	1413	1772	2025	2495
2620	2407	2363	1968	1468	1064	1017	1072	1391	1952	2234	2477
749	634	692	794	841	959	1066	1031	991	921	1048	1145
1430	1189	1417	1526	1272	1080	1422	1118	1758	1613	1696	1546
1414	1312	1585	1495	1452	1304	1605	1637	932	1104	1179	1509
321	369	331	247	-41	-387	-486	-227	-199	-122	-191	96
1299	1084	997	661	776	457	11	340	-296	122	267	900
1109	987	710	469	22	-238	-582	-570	397	749	952	874
49	32	51	96	147	214	286	192	249	135	64	59
281	224	215	197	202	320	332	221	206	252	250	286
274	196	216	195	349	246	203	194	279	397	322	402
5082	4549	4935	4339	4146	4058	4180	4073	4313	4674	4917	5255
6266	5520	5896	5194	5298	5199	5341	5179	5331	5865	6058	6292
6356	5879	6064	5603	5363	5345	5448	5244	5484	5764	5762	6066
5886	5212	5209	4950	4548	4301	4228	4337	4653	5223	5997	**6154**
6042	5981	5994	5118	5091	5246	5209	4658	5254	5582	6275	**6749**
6118	**6339**	5998	5570	5092	5135	5086	4977	5281	5307	6020	5833
8381	7798	7955	7757	7459	7541	7418	7687	7906	8536	8635	**8876**
8522	8459	8433	7770	7746	7822	7890	5755	7626	8067	8780	**8914**
8917	8496	8442	7914	7883	7844	7798	7880	8011	8123	8782	8627
8465	7801	7955	7757	7564	7618	7541	7803	7947	8536	**9019**	9009
8782	8535	8524	7890	7877	7934	8054	5908	7766	8101	9083	**9365**
9149	8687	8586	8039	8060	7961	7975	8108	8149	8208	8997	8868
10:00	19:00	11:00	11:00	12:00	12:00	12:00	12:00	12:00	11:00	**18:00**	18:00
18:00	19:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	18:00	**18:00**
18:00	19:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	18:00	18:00
7684	6739	7657	8121	6910	8371	**8442**	7850	7906	7506	8173	7427

Physical exchanges in interconnected operation [1]

Austria | GWh

MM_YY	AT→CH	AT→CZ	AT→DE	AT→HU	AT→IT	AT→SI	UCTE_EXP	Total_EXP	CH→AT	CZ→AT	DE→AT	HU→AT	IT→AT	SI→AT	UCTE_IMP	Total_IMP	AT_UCTE	AT_Total
	Export (-)								Import (+)								Balance	
I.98	232	1	267	23	133	93	725	749	16	255	727	58	0	3	746	1059	21	310
II.98	151	26	219	23	103	112	585	634	28	211	692	46	0	0	720	977	135	343
III.98	164	4	244	5	123	152	683	692	35	229	676	98	0	0	711	1038	28	346
IV.98	282	2	194	2	139	175	790	794	5	211	730	122	0	0	735	1068	-55	274
V.98	216	0	240	7	136	242	834	841	17	259	454	95	0	0	471	825	-363	-16
VI.98	161	5	421	10	146	216	944	959	43	188	293	52	0	0	336	576	-608	-383
VII.98	195	3	428	6	166	268	1057	1066	27	222	335	77	0	4	366	665	-691	-401
VIII.98	331	5	398	7	115	175	1019	1031	5	281	438	75	0	15	458	814	-561	-217
IX.98	270	7	410	2	130	172	982	991	8	172	404	220	0	1	413	805	-569	-186
X.98	252	3	426	11	142	87	907	921	15	263	387	126	0	10	412	801	-495	-120
XI.98	364	9	400	9	147	119	1030	1048	3	186	436	121	0	13	452	759	-578	-289
XII.98	437	2	307	1	152	246	1142	1145	1	273	593	185	0	0	594	1052	-548	-93
1998	**3055**	**67**	**3954**	**106**	**1632**	**2057**	**10698**	**10871**	**203**	**2750**	**6165**	**1275**	**0**	**46**	**6414**	**10439**	**-4284**	**-432**
I.07	906	0	227	104	121	72	1430	1430	0	752	1939	20	0	107	2818	2818	1388	1388
II.07	695	0	220	91	109	74	1189	1189	0	593	1594	30	0	96	2313	2313	1124	1124
III.07	860	0	268	76	125	88	1417	1417	0	725	1635	27	0	75	2462	2462	1045	1045
IV.07	880	0	276	88	118	164	1526	1526	0	750	1437	17	0	31	2235	2235	709	709
V.07	632	0	316	63	129	132	1272	1272	2	761	1193	77	0	25	2058	2058	786	786
VI.07	360	6	370	132	111	101	1080	1080	10	519	945	5	0	38	1517	1517	437	437
VII.07	401	4	488	243	139	147	1422	1422	5	590	806	1	0	17	1419	1419	-3	-3
VIII.07	304	2	408	160	98	146	1118	1118	13	564	859	4	0	12	1452	1452	334	334
IX.07	721	7	518	186	128	198	1758	1758	0	349	1054	5	0	5	1413	1413	-345	-345
X.07	683	4	501	127	124	174	1613	1613	5	449	1285	14	0	19	1772	1772	159	159
XI.07	885	12	546	101	77	75	1696	1696	0	407	1529	18	0	71	2025	2025	329	329
XII.07	895	5	373	86	126	61	1546	1546	2	529	1856	25	0	83	2495	2495	949	949
2007	**8222**	**40**	**4511**	**1457**	**1405**	**1432**	**17067**	**17067**	**37**	**6988**	**16132**	**243**	**0**	**579**	**23979**	**23979**	**6912**	**6912**
I.08	779	0	332	113	114	76	1414	1414	0	682	1778	19	0	141	2620	2620	1206	1206
II.08	738	0	271	121	107	75	1312	1312	0	608	1692	10	0	97	2407	2407	1095	1095
III.08	838	4	476	88	124	55	1585	1585	0	501	1707	42	0	113	2363	2363	778	778
IV.08	817	0	440	53	115	70	1495	1495	0	516	1344	45	0	63	1968	1968	473	473
V.08	627	4	473	61	121	166	1452	1452	3	440	991	25	0	9	1468	1468	16	16
VI.08	339	10	660	40	114	141	1304	1304	18	369	583	71	0	23	1064	1064	-240	-240
VII.08	452	5	811	72	110	155	1605	1605	10	422	533	36	0	16	1017	1017	-588	-588
VIII.08	553	12	642	122	120	188	1637	1637	0	345	697	16	0	14	1072	1072	-565	-565
IX.08	334	3	360	48	90	97	932	932	68	114	1056	103	1	49	1391	1391	459	459
X.08	540	3	338	27	112	84	1104	1104	2	159	1475	203	0	113	1952	1952	848	848
XI.08	618	5	339	44	120	53	1179	1179	5	563	1455	99	0	112	2234	2234	1055	1055
XII.08	814	10	465	50	120	50	1509	1509	0	616	1686	52	0	123	2477	2477	968	968
2008	**7449**	**56**	**5607**	**839**	**1367**	**1210**	**16528**	**16528**	**106**	**5335**	**14997**	**721**	**1**	**873**	**22033**	**22033**	**5505**	**5505**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation [1]

Bosnia-Herzegovina | GWh

MM_YY	BA→HR	BA→ME	BA→RS	UCTE_EXP	Total_EXP	HR→BA	ME→BA	RS→BA	UCTE_IMP	Total_IMP	BA_UCTE	BA_Total
											Balance	
I.98	7			7	7	0			0	0	-7	-7
II.98	27			27	27	0			0	0	-27	-27
III.98	69			69	69	49			49	49	-20	-20
IV.98	68			68	68	10			10	10	-58	-58
V.98	105			105	105	8			8	8	-97	-97
VI.98	84			84	84	52			52	52	-32	-32
VII.98	62			62	62	69			69	69	7	7
VIII.98	67			67	67	41			41	41	-26	-26
IX.98	103			103	103	56			56	56	-47	-47
X.98	90			90	90	8			8	8	-82	-82
XI.98	51			51	51	8			8	8	-43	-43
XII.98	60			60	60	9			9	9	-51	-51
1998	**793**			**793**	**793**	**310**			**310**	**310**	**-483**	**-483**
I.07	138	177	47	362	362	136	5	261	402	402	40	40
II.07	157	148	23	328	328	56	22	193	271	271	-57	-57
III.07	133	191	29	353	353	67	18	130	215	215	-138	-138
IV.07	95	146	14	255	255	82	19	172	273	273	18	18
V.07	103	124	25	252	252	112	20	204	336	336	84	84
VI.07	62	187	28	277	277	122	4	198	324	324	47	47
VII.07	75	244	20	339	339	141	6	187	334	334	-5	-5
VIII.07	66	303	45	414	414	172	1	156	329	329	-85	-85
IX.07	126	237	38	401	401	86	2	202	290	290	-111	-111
X.07	189	176	39	404	404	78	7	246	331	331	-73	-73
XI.07	317	143	33	493	493	54	28	213	295	295	-198	-198
XII.07	241	200	25	466	466	69	31	243	343	343	-123	-123
2007	**1702**	**2276**	**366**	**4344**	**4344**	**1175**	**163**	**2405**	**3743**	**3743**	**-601**	**-601**
I.08	191	213	22	426	426	64	26	245	335	335	-91	-91
II.08	184	229	26	439	439	74	25	220	319	319	-120	-120
III.08	282	123	22	427	427	50	29	223	302	302	-125	-125
IV.08	261	109	9	379	379	33	28	197	258	258	-121	-121
V.08	163	151	25	339	339	56	11	180	247	247	-92	-92
VI.08	162	197	21	380	380	55	7	138	200	200	-180	-180
VII.08	259	153	18	430	430	55	10	215	280	280	-150	-150
VIII.08	127	234	30	391	391	111	2	193	306	306	-85	-85
IX.08	176	189	5	370	370	62	41	144	247	247	-123	-123
X.08	280	148	17	445	445	47	16	259	322	322	-123	-123
XI.08	263	165	21	449	449	61	21	219	301	301	-148	-148
XII.08	316	171	42	529	529	69	23	145	237	237	-292	-292
2008	**2664**	**2082**	**258**	**5004**	**5004**	**737**	**239**	**2378**	**3354**	**3354**	**-1650**	**-1650**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Bosnia-Herzegovina

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	n.a.
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	n.a.
			2007	7782
			2008	8668
Hydraulic net generation	GWh	Σ	1998	n.a.
			2007	4001
			2008	4552
Other renewable net generation [1]	GWh	Σ	2007	0
			2008	0
- of which wind	GWh	Σ	2007	0
			2008	0
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007	11783
			2008	13220
Physical import	GWh	Σ	1998	310
			2007	3743
			2008	3354
Physical export	GWh	Σ	1998	793
			2007	4344
			2008	5004
Total physical import/export balance	GWh	Σ	1998	n.a.
			2007	-612
			2008	-1645
Consumption of pumps	GWh	Σ	1998	n.a.
			2007	0
			2008	0
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007	11171
			2008	11575
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	1173
			2008	1158
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	1776
			2008	1627
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	1974
			2008	1894
Time of highest load on the 3rd Wednesday		CET	1998	n.a.
			2007	18:00
			2008	18:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	n.a.

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
704	658	708	363	506	537	620	723	749	768	719	727
706	749	701	486	638	751	853	810	737	751	800	686
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
283	290	383	469	280	259	273	237	226	290	495	516
479	369	436	546	362	313	225	215	222	347	343	695
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
987	948	1091	832	786	796	893	960	975	1058	1214	1243
1185	1118	1137	1032	1000	1064	1078	1025	959	1098	1143	1381
0	0	49	10	8	52	69	41	56	8	8	9
402	271	215	273	336	324	334	329	290	331	295	343
335	319	302	258	247	200	280	306	247	322	301	237
7	27	69	68	105	84	62	67	103	90	51	60
362	328	353	255	252	277	339	414	401	404	493	466
426	439	427	379	339	380	430	391	370	445	449	529
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
37	-58	-139	19	83	46	-4	-86	-110	-73	-198	-129
-92	-120	-125	-121	-92	-176	-150	-86	-124	-115	-150	-294
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1024	890	952	851	869	842	889	874	865	985	1016	1114
1093	998	1012	911	908	888	928	939	835	983	993	1087
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1065	982	1033	895	928	955	932	902	892	1025	1084	**1173**
1133	**1158**	1100	954	955	973	998	993	985	1033	1088	1091
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1567	1431	1497	1325	1299	1357	1383	1325	1326	1472	1593	**1776**
1624	**1627**	1588	1447	1409	1417	1465	1458	1504	1510	1601	1622
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1736	1618	1649	1493	1458	1464	1491	1429	1557	1706	1781	**1974**
1793	1855	1793	1617	1510	1502	1517	1597	1682	1753	**1894**	1865
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
18:00	19:00	21:00	21:00	22:00	22:00	22:00	22:00	20:00	20:00	18:00	**18:00**
19:00	19:00	20:00	21:00	22:00	22:00	22:00	21:00	20:00	20:00	**18:00**	18:00
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Belgium

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	43888
			2007	45854
			2008	43357
Fossil fuels net generation	GWh	Σ	1998	34103
			2007	33833
			2008	31269
Hydraulic net generation	GWh	Σ	1998	1501
			2007	1674
			2008	1743
Other renewable net generation [1]	GWh	Σ	2007	3735
			2008	4275
- of which wind	GWh	Σ	2007	491
			2008	627
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998 [2]	79492
			2007 [2]	85096
			2008 [2]	80644
Physical import	GWh	Σ	1998	7691
			2007	15698
			2008	17036
Physical export	GWh	Σ	1998	6440
			2007	9038
			2008	6561
Total physical import/export balance	GWh	Σ	1998	1387
			2007	6780
			2008	10596
Consumption of pumps	GWh	Σ	1998	1463
			2007	1716
			2008	1778
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	79416
			2007	90160
			2008	89462
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	9250
			2007	10871
			2008	10306
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	11303
			2007	13013
			2008	12490
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	11943
			2007	13820
			2008	13300
Time of highest load on the 3rd Wednesday		CET	1998	18:00
			2007	19:00
			2008	19:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	11340

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
4201	3673	3481	3129	3765	3308	2726	3582	4033	3751	3923	4316
4123	3909	3838	3742	3855	3973	3532	3993	3548	3847	3781	3713
3870	3562	3442	2975	3319	3551	3625	3611	3227	3871	3945	4359
2969	2786	3104	3139	2404	2688	3032	2469	2349	3122	3018	3023
3117	2990	3179	3061	2618	2565	2506	2378	2476	2816	3066	3061
2943	2768	2418	2620	2467	2420	2658	2433	2801	2818	2429	2559
135	94	117	138	127	128	128	106	123	114	137	154
152	150	158	128	124	134	139	142	129	125	132	161
158	144	153	150	146	135	130	130	120	150	157	170
345	277	317	299	307	224	279	286	300	331	382	388
429	363	414	334	285	317	337	345	320	353	360	353
72	41	47	21	42	26	40	27	32	23	54	66
99	58	82	39	32	29	36	47	45	54	61	45
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
7305	6553	6702	6406	6296	6124	5886	6157	6505	6987	7078	7493
7737	7326	7492	7230	6904	6896	6456	6799	6453	7119	7361	7323
7400	6837	6427	6079	6217	6423	6750	6519	6468	7192	6891	7441
729	664	891	813	635	609	636	461	517	552	620	564
1265	945	1205	798	1293	1542	1330	1480	1353	1336	1584	1567
1577	1560	2120	1875	1594	1460	1025	1487	1239	1174	1070	855
608	531	407	539	525	513	541	583	520	456	494	723
542	667	613	818	896	1266	779	1107	531	513	810	496
448	344	371	289	449	720	746	1035	437	643	438	641
133	143	497	285	122	107	105	-112	7	107	138	-145
736	288	602	-11	408	284	562	382	830	833	786	1080
1140	1225	1760	1596	1154	749	289	461	812	542	642	226
111	94	108	117	128	132	151	133	135	111	118	125
141	138	144	135	138	145	144	149	143	149	135	155
142	132	142	133	154	148	149	152	140	160	160	166
7327	6602	7091	6574	6290	6099	5840	5912	6377	6983	7098	7223
8332	7476	7950	7084	7174	7035	6874	7032	7140	7803	8012	8248
8398	7930	8045	7542	7217	7024	6890	6828	7140	7574	7373	7501
9250	8835	8298	8483	7432	7514	7100	7246	7784	8249	9164	8673
9838	9628	9788	8447	8488	8497	8035	7898	8535	8724	9875	**10871**
10078	**10306**	9908	9712	8330	8525	8409	8293	8517	8317	8667	9494
11296	10878	10632	10878	9861	9969	9396	9850	10474	10767	**11303**	10947
12476	12261	11992	11389	11427	11622	10432	8906	11608	12069	12737	**13013**
12490	12478	12390	11998	11301	11340	11154	11198	11457	11757	11318	12064
11760	11014	10855	11089	10158	10261	9681	10070	10655	10951	**11943**	11643
13184	12581	12542	11581	11631	11910	10737	9311	11757	12163	13086	**13820**
13300	12847	12654	12123	11670	11519	11282	11477	11707	11869	12153	12561
19:00	20:00	20:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	**18:00**	18:00
19:00	12:00	20:00	12:00	12:00	12:00	12:00	23:00	12:00	12:00	19:00	**19:00**
19:00	20:00	20:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	18:00	18:00
11340	10735	10115	10499	9742	9761	8863	9983	10725	10523	10962	10958

[2] including deliveries from industry

Physical exchanges in interconnected operation [1]

Belgium | GWh

MM_YY	BE→FR	BE→LU	BE→NL	UCTE_EXP	Total_EXP	FR→BE	LU→BE	NL→BE	UCTE_IMP	Total_IMP	BE_UCTE	BE_Total
	Export (-)					Import (+)					Balance	
I.98	30	178	400	608	608	489	0	240	729	729	121	121
II.98	60	161	310	531	531	409	0	255	664	664	133	133
III.98	28	175	204	407	407	611	0	280	891	891	484	484
IV.98	116	162	261	539	539	467	0	346	813	813	274	274
V.98	84	158	283	525	525	358	0	277	635	635	110	110
VI.98	9	154	350	513	513	443	0	166	609	609	96	96
VII.98	48	152	341	541	541	464	0	172	636	636	95	95
VIII.98	232	81	270	583	583	237	0	224	461	461	-122	-122
IX.98	208	162	150	520	520	257	0	260	517	517	-3	-3
X.98	112	172	172	456	456	290	0	262	552	552	96	96
XI.98	150	172	172	494	494	272	0	348	620	620	126	126
XII.98	368	144	211	723	723	178	0	386	564	564	-159	-159
1998	**1445**	**1871**	**3124**	**6440**	**6440**	**4475**	**0**	**3216**	**7691**	**7691**	**1251**	**1251**
I.07	321	150	71	542	542	311	216	738	1265	1265	723	723
II.07	192	129	346	667	667	490	185	270	945	945	278	278
III.07	278	155	180	613	613	466	206	533	1205	1205	592	592
IV.07	265	141	412	818	818	385	96	317	798	798	-20	-20
V.07	53	126	717	896	896	1057	168	68	1293	1293	397	397
VI.07	39	140	1087	1266	1266	1318	179	45	1542	1542	276	276
VII.07	42	140	597	779	779	949	162	219	1330	1330	551	551
VIII.07	2	112	993	1107	1107	1278	133	69	1480	1480	373	373
IX.07	19	117	395	531	531	917	139	297	1353	1353	822	822
X.07	140	150	223	513	513	613	190	533	1336	1336	823	823
XI.07	613	143	54	810	810	241	191	1152	1584	1584	774	774
XII.07	357	127	12	496	496	321	219	1027	1567	1567	1071	1071
2007	**2321**	**1630**	**5087**	**9038**	**9038**	**8346**	**2084**	**5268**	**15698**	**15698**	**6660**	**6660**
I.08	241	154	53	448	448	369	198	1010	1577	1577	1129	1129
II.08	125	148	71	344	344	589	178	793	1560	1560	1216	1216
III.08	207	159	5	371	371	385	190	1545	2120	2120	1749	1749
IV.08	72	155	62	289	289	554	111	1210	1875	1875	1586	1586
V.08	26	188	235	449	449	1030	0	564	1594	1594	1145	1145
VI.08	6	174	540	720	720	1187	0	273	1460	1460	740	740
VII.08	84	177	485	746	746	711	28	286	1025	1025	279	279
VIII.08	32	105	898	1035	1035	1158	190	139	1487	1487	452	452
IX.08	91	99	247	437	437	659	184	396	1239	1239	802	802
X.08	467	80	96	643	643	162	193	819	1174	1174	531	531
XI.08	287	52	99	438	438	278	181	611	1070	1070	632	632
XII.08	398	26	217	641	641	204	176	475	855	855	214	214
2008	**2036**	**1517**	**3008**	**6561**	**6561**	**7286**	**1629**	**8121**	**17036**	**17036**	**10475**	**10475**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation [1]

Bulgaria | GWh

MM_YY	BG→GR	BG→MK	BG→RO	BG→RS	BG→YUGO	BG→TR	UCTE_EXP	Total_EXP	GR→BG	MK→BG	RO→BG	RS→BG	YUGO→BG	TR→BG	UCTE_IMP	Total_IMP	BG_UCTE	BG_Total
																	Balance	
I.98	135		n.a.		99	n.a.	234	n.a.	0		n.a.		0	n.a.	0	n.a.	-234	n.a.
II.98	33		n.a.		54	n.a.	87	n.a.	7		n.a.		1	n.a.	8	n.a.	-79	n.a.
III.98	133		n.a.		45	n.a.	178	n.a.	1		n.a.		2	n.a.	3	n.a.	-175	n.a.
IV.98	122		n.a.		13	n.a.	135	n.a.	4		n.a.		18	n.a.	22	n.a.	-113	n.a.
V.98	117		n.a.		9	n.a.	126	n.a.	1		n.a.		31	n.a.	32	n.a.	-94	n.a.
VI.98	144		n.a.		6	n.a.	150	n.a.	0		n.a.		34	n.a.	34	n.a.	-116	n.a.
VII.98	183		n.a.		4	n.a.	187	n.a.	1		n.a.		47	n.a.	48	n.a.	-139	n.a.
VIII.98	59		n.a.		37	n.a.	96	n.a.	0		n.a.		14	n.a.	14	n.a.	-82	n.a.
IX.98	50		n.a.		33	n.a.	83	n.a.	4		n.a.		18	n.a.	22	n.a.	-61	n.a.
X.98	59		n.a.		27	n.a.	86	n.a.	5		n.a.		11	n.a.	16	n.a.	-70	n.a.
XI.98	41		n.a.		36	n.a.	77	n.a.	4		n.a.		13	n.a.	17	n.a.	-60	n.a.
XII.98	10		n.a.		100	n.a.	110	n.a.	24		n.a.		0	n.a.	24	n.a.	-86	n.a.
1998	**1086**		**n.a.**		**463**	**n.a.**	**1549**	**n.a.**	**51**		**n.a.**		**189**	**n.a.**	**240**	**n.a.**	**-1309**	**n.a.**
I.07	243	50	0	177		0	470	470	0	0	338	0		0	338	338	-132	-132
II.07	290	57	1	139		0	487	487	0	0	374	0		0	374	374	-113	-113
III.07	415	78	0	130		0	623	623	0	0	426	0		0	426	426	-197	-197
IV.07	331	70	4	108		0	513	513	0	0	116	0		0	116	116	-397	-397
V.07	209	47	11	140		0	407	407	0	0	88	0		0	88	88	-319	-319
VI.07	479	78	71	147		0	775	775	0	0	179	0		0	179	179	-596	-596
VII.07	422	68	123	127		0	740	740	0	0	285	0		0	285	285	-455	-455
VIII.07	403	70	85	161		0	719	719	0	0	218	0		0	218	218	-501	-501
IX.07	409	74	51	197		0	731	731	0	0	218	0		0	218	218	-513	-513
X.07	358	66	63	205		0	692	692	0	0	233	0		0	233	233	-459	-459
XI.07	364	70	3	237		0	674	674	0	0	241	0		0	241	241	-433	-433
XII.07	374	81	0	234		0	689	689	0	0	341	0		0	341	341	-348	-348
2007	**4297**	**809**	**412**	**2002**		**0**	**7520**	**7520**	**0**	**0**	**3057**	**0**		**0**	**3057**	**3057**	**-4463**	**-4463**
I.08	322	63	0	189		0	574	574	0	0	467	0		0	467	467	-107	-107
II.08	340	62	0	138		0	540	540	0	0	544	0		0	544	544	4	4
III.08	428	78	0	240		0	746	746	0	0	318	0		0	318	318	-428	-428
IV.08	395	80	11	240		0	726	726	0	0	141	0		0	141	141	-585	-585
V.08	351	85	31	238		0	705	705	0	0	118	0		0	118	118	-587	-587
VI.08	415	82	103	126		0	726	726	0	0	212	0		0	212	212	-514	-514
VII.08	467	78	53	183		0	781	781	0	0	226	0		0	226	226	-555	-555
VIII.08	486	75	25	213		0	799	799	0	0	284	0		0	284	284	-515	-515
IX.08	381	72	40	148		0	641	641	0	0	191	0		0	191	191	-450	-450
X.08	374	67	1	217		0	659	659	0	0	175	0		0	175	175	-484	-484
XI.08	398	99	24	269		0	790	790	0	0	127	0		0	127	127	-663	-663
XII.08	271	301	0	181		0	753	753	0	0	292	0		0	292	292	-461	-461
2008	**4628**	**1142**	**288**	**2382**		**0**	**8440**	**8440**	**0**	**0**	**3095**	**0**		**0**	**3095**	**3095**	**-5345**	**-5345**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Bulgaria

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	n.a.
			2007	13613
			2008	14759
Fossil fuels net generation	GWh	Σ	1998	n.a.
			2007	22122
			2008	22594
Hydraulic net generation	GWh	Σ	1998	n.a.
			2007	2446
			2008	3202
Other renewable net generation [1]	GWh	Σ	2007	0
			2008	0
- of which wind	GWh	Σ	2007	0
			2008	0
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007	38181
			2008	40555
Physical import	GWh	Σ	1998	n.a.
			2007	3057
			2008	3096
Physical export	GWh	Σ	1998	n.a.
			2007	7520
			2008	8440
Total physical import/export balance	GWh	Σ	1998	n.a.
			2007	-4533
			2008	-5397
Consumption of pumps	GWh	Σ	1998	n.a.
			2007	522
			2008	705
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007	33126
			2008	34453
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007 [2]	5016
			2008 [2]	4972
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007 [2]	6356
			2008 [2]	6358
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007 [2]	6839
			2008 [2]	6771
Time of highest load on the 3rd Wednesday		CET	1998	n.a.
			2007	19:00
			2008	20:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	n.a.

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1405	1271	1409	1369	1319	977	687	1013	671	727	1336	1429
1524	1336	1432	1364	1334	814	979	1135	677	1332	1392	1440
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1831	1724	1681	1427	1072	1667	2168	1878	2118	2325	2038	2193
2200	1781	1766	1561	1410	1808	1943	1788	2136	1786	2176	2239
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
169	144	227	221	437	419	0	0	0	229	231	369
361	245	255	351	399	385	269	245	195	162	160	175
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3405	3139	3317	3017	2828	3063	2855	2891	2789	3281	3605	3991
4085	3362	3453	3276	3143	3007	3191	3168	3008	3280	3728	3854
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
338	374	426	116	88	179	285	218	218	233	241	341
467	544	318	141	118	212	227	284	191	175	127	292
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0	n.a.	n.a.	n.a.
470	487	623	513	407	775	740	719	731	692	674	689
574	540	746	726	705	726	781	799	641	659	790	753
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-134	-118	-203	-401	-327	-605	-461	-508	-518	-464	-438	-356
-112	0	-434	-585	-587	-520	-561	-524	-454	-488	-668	-464
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
67	50	62	54	37	20	34	44	38	49	67	0
56	67	65	54	34	28	52	60	55	70	78	86
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3204	2971	3052	2562	2464	2438	2360	2339	2233	2768	3100	3635
3917	3295	2954	2637	2522	2459	2578	2584	2499	2722	2982	3304
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4194	4207	3821	3442	3111	3335	3468	3342	3242	3711	4360	**5016**
4972	4811	3725	3491	3282	3311	3393	3331	3163	3444	4060	4209
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5221	4917	4693	4246	3790	4244	4324	4064	4037	4632	5497	**6356**
6358	5950	5096	4646	4051	4191	4229	4302	4118	4378	5368	5347
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5732	5699	5442	4796	4271	4495	4626	4516	4757	5325	6179	**6839**
6771	6408	5829	5009	4467	4560	4459	4708	4691	5105	6014	5971
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
19:00	20:00	20:00	21:00	22:00	23:00	23:00	22:00	20:00	20:00	20:00	**19:00**
20:00	20:00	20:00	21:00	22:00	22:00	23:00	22:00	21:00	20:00	19:00	19:00
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

[2] Gross values

Switzerland

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	24368
			2007	26344
			2008	26132
Fossil fuels net generation	GWh	Σ	1998	2285
			2007	2146
			2008	2121
Hydraulic net generation	GWh	Σ	1998	34295
			2007	36373
			2008	37559
Other renewable net generation [1]	GWh	Σ	2007	1053
			2008	1155
- of which wind	GWh	Σ	2007	12
			2008	24
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	60948
			2007 [2]	65916
			2008 [2]	66967
Physical import	GWh	Σ	1998	22551
			2007	33756
			2008	30494
Physical export	GWh	Σ	1998	27936
			2007	34649
			2008	30525
Total physical import/export balance	GWh	Σ	1998	-5954
			2007	-752
			2008	152
Consumption of pumps	GWh	Σ	1998	1620
			2007	2104
			2008	2685
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998 [3]	53374
			2007 [3]	63060
			2008 [3]	64434
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	6537
			2007	7967
			2008	7468
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	8637
			2007	9756
			2008	9610
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	8637
			2007	9953
			2008	9858
Time of highest load on the 3rd Wednesday		CET	1998	11:00
			2007	18:00
			2008	10:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	10374

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
2285	2062	2269	1978	2035	1613	1779	1312	2165	2269	2261	2340
2413	2174	2302	2313	2365	1799	2271	1378	2179	2398	2334	2418
2409	2252	2401	2320	2332	1460	2295	1253	2256	2392	2338	2424
208	255	267	235	138	131	123	135	161	219	201	212
199	187	195	184	166	163	176	157	168	176	192	183
181	176	181	176	165	174	179	178	173	178	177	183
2383	2240	2343	2344	2995	3851	3672	3376	3110	2458	2867	2656
2293	2190	2391	2320	3160	4370	4532	4280	3153	2911	2410	2363
2379	2243	2273	2301	3554	4500	4356	3976	4288	2574	2660	2455
98	91	96	90	82	80	86	77	82	87	94	90
98	96	99	96	90	95	97	97	94	97	96	100
1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
4876	4557	4879	4557	5168	5595	5574	4823	5436	4946	5329	5208
5003	4642	4984	4907	5773	6412	7065	5892	5582	5572	5030	5054
5067	4767	4954	4893	6141	6229	6927	5504	6811	5241	5271	5162
2435	2070	2414	2156	1676	1252	1385	1618	1555	1812	1834	2344
4006	3450	3849	3115	2203	1633	1410	1782	2373	2882	3261	3792
3683	3361	3360	2852	1925	1412	1280	1878	1459	2811	2934	3539
2162	1975	2428	2309	2569	2499	2719	2136	2515	2140	2146	2338
3005	2674	3066	3026	2856	2966	3527	2710	2856	2935	2354	2674
2545	2413	2459	2186	2786	2440	3027	2277	3001	2446	2414	2531
265	75	-33	-199	-977	-1311	-1408	-617	-1044	-366	-317	-22
1011	787	796	100	-639	-1326	-2108	-921	-473	-37	925	1133
1157	969	920	683	-848	-1015	-1742	-385	-1529	381	537	1024
35	24	24	69	153	304	299	313	190	108	57	44
158	112	108	190	214	262	227	208	191	135	139	160
163	125	142	203	314	307	330	312	205	230	166	188
5106	4608	4822	4289	4038	3980	3867	3893	4202	4472	4955	5142
5856	5317	5672	4817	4920	4824	4730	4763	4918	5400	5816	6027
6061	5611	5732	5373	4979	4907	4855	4807	5077	5392	5642	5998
6499	6128	5890	5937	4638	4768	4421	4607	4824	5613	**6537**	6429
6879	7005	7415	5498	5694	5666	5459	5193	5880	6044	7363	**7967**
7173	**7468**	7312	6869	5737	5618	5273	5488	5901	5661	6854	7404
8637	8185	7790	7935	7033	7404	7157	7520	7498	7915	8410	8306
9161	9066	9239	8367	8113	8693	8209	7851	8792	8563	9477	**9756**
9610	9348	8655	9071	8623	8416	7943	8669	8714	8458	9268	9483
8637	8185	7790	7935	7033	7404	7157	7520	7498	7915	8428	8357
9181	9131	9239	8367	8113	8693	8209	7851	8792	8606	9497	**9953**
9610	9408	8948	9071	8623	8416	7943	8669	8714	8458	9274	**9858**
11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	10:00	08:00
10:00	10:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	08:00	17:00	**18:00**
11:00	08:00	12:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	17:00	**10:00**
9434	10164	9594	10101	10125	10257	8491	9475	10144	8722	**10374**	8545

[2] including deliveries from industry

[3] Calculations based on the UCTE database differ from the official values of the Swiss Federal Office of Energy.

Physical exchanges in interconnected operation [1]

Switzerland | GWh

MM_YY	CH→AT	CH→DE	CH→FR	CH→IT	UCTE_EXP	Total_EXP	AT→CH	DE→CH	FR→CH	IT→CH	UCTE_IMP	Total_IMP	CH_UCTE	CH_Total
	Export (-)						Import (+)						Balance	
I.98	16	418	51	1677	2162	2162	232	1105	1098	0	2435	2435	273	273
II.98	28	411	60	1476	1975	1975	151	932	987	0	2070	2070	95	95
III.98	35	411	50	1932	2428	2428	164	1153	1097	0	2414	2414	-14	-14
IV.98	5	324	36	1944	2309	2309	282	1056	818	0	2156	2156	-153	-153
V.98	17	520	12	2020	2569	2569	216	643	810	7	1676	1676	-893	-893
VI.98	43	602	11	1843	2499	2499	161	474	616	1	1252	1252	-1247	-1247
VII.98	27	483	163	2046	2719	2719	195	676	513	1	1385	1385	-1334	-1334
VIII.98	5	490	240	1401	2136	2136	331	871	415	1	1618	1618	-518	-518
IX.98	8	415	142	1950	2515	2515	270	749	536	0	1555	1555	-960	-960
X.98	15	417	36	1672	2140	2140	252	756	804	0	1812	1812	-328	-328
XI.98	3	408	83	1652	2146	2146	364	775	695	0	1834	1834	-312	-312
XII.98	1	360	123	1854	2338	2338	437	1124	783	0	2344	2344	6	6
1998	**203**	**5259**	**1007**	**21467**	**27936**	**27936**	**3055**	**10314**	**9172**	**10**	**22551**	**22551**	**-5385**	**-5385**
I.07	0	67	139	2799	3005	3005	906	1948	1152	0	4006	4006	1001	1001
II.07	0	95	53	2526	2674	2674	695	1598	1157	0	3450	3450	776	776
III.07	0	138	96	2832	3066	3066	860	1701	1287	1	3849	3849	783	783
IV.07	0	140	120	2766	3026	3026	880	1238	997	0	3115	3115	89	89
V.07	2	294	59	2501	2856	2856	632	801	770	0	2203	2203	-653	-653
VI.07	10	399	93	2464	2966	2966	360	562	703	8	1633	1633	-1333	-1333
VII.07	5	546	391	2585	3527	3527	401	507	501	1	1410	1410	-2117	-2117
VIII.07	13	480	290	1927	2710	2710	304	750	726	2	1782	1782	-928	-928
IX.07	0	240	359	2257	2856	2856	721	917	734	1	2373	2373	-483	-483
X.07	5	373	221	2336	2935	2935	683	1377	817	5	2882	2882	-53	-53
XI.07	0	245	385	1724	2354	2354	885	1677	671	28	3261	3261	907	907
XII.07	2	88	442	2142	2674	2674	895	1950	927	20	3792	3792	1118	1118
2007	**37**	**3105**	**2648**	**28859**	**34649**	**34649**	**8222**	**15026**	**10442**	**66**	**33756**	**33756**	**-893**	**-893**
I.08	0	59	301	2185	2545	2545	779	1915	983	6	3683	3683	1138	1138
II.08	0	55	182	2176	2413	2413	738	1603	1013	7	3361	3361	948	948
III.08	0	73	240	2146	2459	2459	838	1642	858	22	3360	3360	901	901
IV.08	0	88	165	1933	2186	2186	817	1228	794	13	2852	2852	666	666
V.08	3	334	116	2333	2786	2786	627	562	727	9	1925	1925	-861	-861
VI.08	18	520	266	1636	2440	2440	339	471	540	62	1412	1412	-1028	-1028
VII.08	10	509	391	2117	3027	3027	452	353	446	29	1280	1280	-1747	-1747
VIII.08	0	323	346	1608	2277	2277	553	726	562	37	1878	1878	-399	-399
IX.08	68	449	552	1932	3001	3001	334	645	419	61	1459	1459	-1542	-1542
X.08	2	128	463	1853	2446	2446	540	1520	665	86	2811	2811	365	365
XI.08	5	109	164	2136	2414	2414	618	1450	840	26	2934	2934	520	520
XII.08	0	62	362	2107	2531	2531	814	1743	940	42	3539	3539	1008	1008
2008	**106**	**2709**	**3548**	**24162**	**30525**	**30525**	**7449**	**13858**	**8787**	**400**	**30494**	**30494**	**-31**	**-31**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation [1]

Czech Republic | GWh

MM_YY	CZ→AT	CZ→DE	CZ→PL	CZ→SK	UCTE_EXP	Total_EXP	AT→CZ	DE→CZ	PL→CZ	SK→CZ	UCTE_IMP	Total_IMP	CZ_UCTE	CZ_Total
	Export (-)						Import (+)						Balance	
I.98	255	230	7	345	485	837	1	60	680	75	61	816	-424	-21
II.98	211	253	10	410	464	884	26	51	673	55	77	805	-387	-79
III.98	229	384	21	271	613	905	4	33	549	64	37	650	-576	-255
IV.98	211	308	10	219	519	748	2	15	476	89	17	582	-502	-166
V.98	259	289	10	322	548	880	0	28	557	69	28	654	-520	-226
VI.98	188	323	0	236	511	747	5	11	420	84	16	520	-495	-227
VII.98	222	342	3	329	564	896	3	38	512	72	41	625	-523	-271
VIII.98	281	381	7	221	662	890	5	41	484	69	46	599	-616	-291
IX.98	172	668	3	184	840	1027	7	5	598	72	12	682	-828	-345
X.98	263	589	7	138	852	997	3	5	654	93	8	755	-844	-242
XI.98	186	547	18	169	733	920	9	10	695	103	19	817	-714	-103
XII.98	273	488	10	245	761	1016	2	39	780	93	41	914	-720	-102
1998	**2750**	**4802**	**106**	**3089**	**7552**	**10747**	**67**	**336**	**7078**	**938**	**403**	**8419**	**-7149**	**-2328**
I.07	752	949	1	1040	2742	2742	0	204	927	1	1132	1132	-1610	-1610
II.07	593	783	0	819	2195	2195	0	156	885	4	1045	1045	-1150	-1150
III.07	725	837	0	743	2305	2305	0	105	845	21	971	971	-1334	-1334
IV.07	750	810	2	754	2316	2316	0	69	647	6	722	722	-1594	-1594
V.07	761	595	2	780	2138	2138	0	42	678	6	726	726	-1412	-1412
VI.07	519	299	1	735	1554	1554	6	63	514	7	590	590	-964	-964
VII.07	590	766	0	812	2168	2168	4	47	725	0	776	776	-1392	-1392
VIII.07	564	663	0	912	2139	2139	2	13	604	1	620	620	-1519	-1519
IX.07	349	753	0	822	1924	1924	7	23	758	2	790	790	-1134	-1134
X.07	449	935	13	955	2352	2352	4	28	913	0	945	945	-1407	-1407
XI.07	407	1065	0	739	2211	2211	12	44	845	1	902	902	-1309	-1309
XII.07	529	966	1	814	2310	2310	5	92	889	4	990	990	-1320	-1320
2007	**6988**	**9421**	**20**	**9925**	**26354**	**26354**	**40**	**886**	**9230**	**53**	**10209**	**10209**	**-16145**	**-16145**
I.08	682	948	1	901	2532	2532	0	195	865	4	1064	1064	-1468	-1468
II.08	608	787	0	754	2149	2149	0	84	776	6	866	866	-1283	-1283
III.08	501	829	2	563	1895	1895	4	37	651	16	708	708	-1187	-1187
IV.08	516	712	4	634	1866	1866	0	28	527	14	569	569	-1297	-1297
V.08	440	458	9	372	1279	1279	4	25	459	20	508	508	-771	-771
VI.08	369	590	4	433	1396	1396	10	8	518	9	545	545	-851	-851
VII.08	422	747	1	567	1737	1737	5	14	713	18	750	750	-987	-987
VIII.08	345	603	4	507	1459	1459	12	10	546	24	592	592	-867	-867
IX.08	114	306	0	607	1027	1027	3	154	311	16	484	484	-543	-543
X.08	159	524	0	667	1350	1350	3	367	384	19	773	773	-577	-577
XI.08	563	604	0	299	1466	1466	5	339	487	64	895	895	-571	-571
XII.08	616	832	1	381	1830	1830	10	65	672	23	770	770	-1060	-1060
2008	**5335**	**7940**	**26**	**6685**	**19986**	**19986**	**56**	**1326**	**6909**	**233**	**8524**	**8524**	**-11462**	**-11462**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Czech Republic

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	12352
			2007	24623
			2008	25016
Fossil fuels net generation	GWh	Σ	1998	45847
			2007	53983
			2008	49447
Hydraulic net generation	GWh	Σ	1998	2065
			2007	2513
			2008	2367
Other renewable net generation [1]	GWh	Σ	2007	288
			2008	257
- of which wind	GWh	Σ	2007	119
			2008	242
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998 [2]	60264
			2007 [2]	81407
			2008 [2]	77087
Physical import	GWh	Σ	1998	8419
			2007	10209
			2008	8524
Physical export	GWh	Σ	1998	10747
			2007	26354
			2008	19986
Total physical import/export balance	GWh	Σ	1998	-2461
			2007	-16152
			2008	-11468
Consumption of pumps	GWh	Σ	1998	654
			2007	592
			2008	478
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	57149
			2007	64663
			2008	65141
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	8072
			2008	7952
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	9791
			2008	9615
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	10031
			2008	9804
Time of highest load on the 3rd Wednesday		CET	1998	n.a.
			2007	15:00
			2008	12:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	n.a.

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1223	1117	1229	783	928	772	903	1018	910	1089	1133	1247
2421	1487	1773	1905	1995	1858	2334	2011	1736	2343	2383	2377
2660	2275	2142	2000	1987	1942	2472	1977	1936	1729	1627	2269
4384	4063	4347	3815	3401	3335	3190	3100	3635	3990	4206	4381
5063	4994	5187	4561	4298	3775	3602	4186	4161	4541	4801	4814
4947	4646	4700	4545	3678	3548	3219	3537	3584	4247	4455	4341
171	137	173	164	132	131	154	146	178	181	296	202
245	268	291	239	183	135	113	117	173	166	254	329
234	250	376	278	220	160	128	122	109	160	162	168
29	21	25	19	22	19	22	18	26	24	34	29
25	24	31	17	13	12	19	20	16	20	29	31
12	7	11	8	8	6	8	5	12	8	19	15
24	23	30	16	12	11	17	19	13	19	28	30
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
5778	5317	5749	4762	4461	4238	4247	4264	4723	5260	5635	5830
7758	6770	7276	6724	6498	5787	6071	6332	6096	7074	7472	7549
7866	7195	7249	6840	5898	5662	5838	5656	5645	6156	6273	6809
816	805	650	582	654	520	625	599	682	755	817	914
1132	1045	971	722	726	590	776	620	790	945	902	990
1064	866	708	569	508	545	750	592	484	773	895	770
837	884	905	748	880	747	896	890	1027	997	920	1016
2742	2195	2305	2316	2138	1554	2168	2139	1924	2352	2211	2310
2532	2149	1895	1866	1279	1396	1737	1459	1027	1350	1466	1830
-22	-129	-254	-164	-224	-226	-364	-292	-343	-237	-104	-102
-1610	-1152	-1334	-1594	-1413	-964	-1392	-1520	-1134	-1408	-1310	-1321
-1468	-1284	-1187	-1299	-772	-851	-987	-867	-544	-575	-571	-1063
46	23	29	30	49	72	74	80	78	76	45	52
93	84	58	59	76	46	8	24	29	30	39	46
56	37	48	42	16	27	32	28	20	48	66	58
5710	5165	5466	4568	4188	3940	3809	3892	4302	4947	5486	5676
6055	5534	5884	5071	5009	4777	4671	4788	4933	5636	6123	6182
6342	5874	6014	5499	5110	4784	4819	4761	5081	5533	5636	5688
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7547	7277	7237	6315	6134	6076	6044	5916	6204	6583	7719	8072
7702	7952	7550	6998	6467	6045	5870	5767	6337	6206	7048	**6646**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
9224	8961	8882	8152	7934	7849	7835	7813	7929	8227	9551	**9791**
9615	9399	9210	8944	8531	7777	7687	7682	8275	8148	9006	8696
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
9332	9079	9098	8242	7961	8091	7962	7875	8271	8618	9950	**10031**
9804	9524	9493	8969	8674	7939	7884	7820	8526	8540	9472	9005
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
17:00	20:00	19:00	13:00	12:00	13:00	13:00	12:00	20:00	07:00	17:00	**15:00**
12:00	09:00	19:00	12:00	12:00	13:00	12:00	13:00	20:00	19:00	17:00	16:00
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

[2] including deliveries from industry

Germany

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	151823
			2007	133203
			2008	141074
Fossil fuels net generation	GWh	Σ	1998	312160
			2007	365971
			2008	356366
Hydraulic net generation	GWh	Σ	1998	18833
			2007	24361
			2008	23473
Other renewable net generation [1]	GWh	Σ	2007	60454
			2008	66370
- of which wind	GWh	Σ	2007	39535
			2008	40429
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998 [2]	561396
			2007 [2]	583989
			2008 [2]	587283 [3]
Physical import	GWh	Σ	1998	36867
			2007	44270
			2008	40245
Physical export	GWh	Σ	1998	38612
			2007	63385
			2008	62695
Total physical import/export balance	GWh	Σ	1998	-637
			2007	-19115
			2008	-22450
Consumption of pumps	GWh	Σ	1998	5130
			2007	8975
			2008	7671
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	555629
			2007	555899
			2008	557162
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	59461
			2007	58445
			2008	59061
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	80377
			2007	78425
			2008	79864
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	81426
			2007	82787
			2008	82231
Time of highest load on the 3rd Wednesday		CET	1998	18:00
			2007	19:00
			2008	18:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	80400

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
14996	13138	13092	13204	11747	10080	11671	12032	11826	13147	13149	13741
13193	12199	12925	11189	11120	10535	9318	9393	9628	10565	10941	12197
12303	12433	13178	11637	11320	10172	10341	12100	11432	11394	11971	12793
28216	26439	28981	24602	23530	23529	23780	23352	24675	26711	28749	29596
32990	32081	33225	29614	26731	28006	28653	28833	26861	32748	33398	32831
34159	33498	30841	31656	26658	27021	28749	25496	27544	31415	30001	29328
1547	1124	1610	1666	1537	1547	1592	1410	1656	1692	1750	1702
1940	1804	1968	1644	1980	2232	2503	2255	2181	1897	1906	2051
2017	1772	2144	2134	2261	2217	2251	2081	1635	1669	1560	1732
8975	4759	5805	4203	4172	3792	4915	3828	5012	3423	5776	5794
8453	6202	7718	4160	4004	4323	4493	5184	4341	5766	6411	5315
7512	3328	4254	2491	2455	1964	2991	1825	3043	1596	3996	4080
6563	4304	5532	2026	1648	2032	2256	2881	2131	3544	4385	3127
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
52044	47325	50793	45896	42806	40877	43072	42782	44367	48313	50752	52369
57098	50843	53923	46650	44003	44565	45389	44309	43682	48633	52021	52873
56932	53905	53881	49587	44243	43733	45834	44861	44952	50244	49943	49168
3101	2603	3309	2870	3326	3536	2979	2616	3330	3245	3084	2868
3328	3168	3515	3797	3996	3656	4436	4756	3881	4028	3190	2519
3375	3040	2860	3126	3372	4119	4355	3777	3242	2765	2938	3276
3824	3426	3813	3629	2901	2556	2825	3212	3063	2989	2930	3444
7181	5533	6443	5336	4269	3523	3859	3661	4539	5126	6462	7453
7488	6407	7080	5538	4055	3099	3173	3739	4223	5837	5834	6222
-698	-589	-451	-736	500	1025	382	-295	370	298	88	-531
-3853	-2365	-2928	-1539	-273	133	577	1095	-658	-1098	-3272	-4934
-4113	-3367	-4220	-2412	-683	1020	1182	38	-981	-3072	-2896	-2946
448	406	410	423	490	406	405	489	432	425	428	368
734	719	702	632	707	681	762	785	765	807	807	874
723	670	714	536	536	622	666	674	624	647	619	640
50898	46330	49932	44737	42816	41496	43049	41998	44305	48186	50412	51470
52511	47759	50293	44479	43023	44017	45204	44619	42259	46728	47942	47065
52096	49868	48947	46639	43024	44131	46350	44225	43347	46525	46428	45582
58598	55402	53323	51544	42689	42415	41273	42975	46585	51106	**59461**	54425
53926	54103	54779	48252	47816	48919	47679	47184	51017	51384	56178	**58445**
58504	**59061**	57753	54360	48980	49407	49336	48684	50887	51179	55893	51252
80377	77094	75504	74319	69254	71484	69276	69860	75160	77264	79246	77473
78425	75775	76093	73373	71768	74676	73079	69992	74439	76364	78003	76390
79864	76884	75190	74627	72076	71523	71227	72350	73189	75276	76789	74967
80377	77694	76386	75402	70727	72729	70529	71385	75771	78175	**81426**	79756
82787	79775	77600	74894	73406	76267	74601	71686	75383	78661	81583	80819
81004	80471	76982	75656	73502	72958	72800	74231	74224	76648	**82231**	77472
11:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00	**18:00**	18:00
19:00	19:00	20:00	12:00	12:00	12:00	12:00	12:00	12:00	20:00	18:00	18:00
19:00	19:00	20:00	12:00	12:00	12:00	12:00	12:00	12:00	20:00	**18:00**	18:00
80400	76961	75400	73000	66500	68700	67000	67700	72100	75300	78500	76200

[2] including deliveries from industry
[3] Electricity generation and consumption also comprise shares of generation from industry's own power stations and feed-in from private generators (total of 12 monthly values). The part of net electricity generation relevant to primary control power amounts to 553,9 TWh.

Physical exchanges in interconnected operation [1]

Germany | GWh

MM_YY	DE→AT	DE→CH	DE→CZ	DE→FR	DE→LU	DE→NL	DE→PL	DE→DK_W	DE→DK_E [2]	DE→SE	UCTE_EXP	Total_EXP	AT→DE	CH→DE	CZ→DE	FR→DE	LU→DE	NL→DE	PL→DE	DK_W→DE	DK_E [2]→DE	SE→DE	UCTE_IMP	Total_IMP	DE_UCTE	DE_Total
MM_YY	Export (-)												Import (+)												Balance	
I.98	727	1105	60	0	386	1044	369	n.a.	63	70	3262	3824	267	418	230	1520	74	136	57	n.a.	347	52	2415	3101	-847	-723
II.98	692	932	51	0	351	978	387	n.a.	32	3	2953	3426	219	411	253	1122	64	116	92	n.a.	250	76	1932	2603	-1021	-823
III.98	676	1153	33	0	371	1165	378	n.a.	37	0	3365	3813	244	411	384	1522	68	99	64	n.a.	381	136	2344	3309	-1021	-504
IV.98	730	1056	15	0	355	1145	293	n.a.	34	1	3286	3629	194	324	308	1363	75	107	23	n.a.	349	127	2063	2870	-1223	-759
V.98	454	643	28	0	359	1121	287	n.a.	9	0	2577	2901	240	520	289	1368	83	193	20	n.a.	323	290	2404	3326	-173	425
VI.98	293	474	11	9	365	1226	178	n.a.	0	0	2367	2556	421	602	323	1141	87	307	24	n.a.	362	269	2558	3536	191	980
VII.98	335	676	38	21	376	1145	233	n.a.	1	0	2553	2825	428	483	342	853	85	200	12	n.a.	434	142	2049	2979	-504	154
VIII.98	438	871	41	111	362	1121	268	n.a.	0	0	2903	3212	398	490	381	442	90	74	5	n.a.	435	301	1494	2616	-1409	-596
IX.98	404	749	5	155	389	1186	174	n.a.	1	0	2883	3063	410	415	668	786	92	62	65	n.a.	570	262	1765	3330	-1118	267
X.98	387	756	5	30	397	1223	191	n.a.	0	0	2793	2989	426	417	589	834	81	67	22	n.a.	557	252	1825	3245	-968	256
XI.98	436	775	10	45	359	1140	146	n.a.	1	18	2755	2930	400	408	547	910	55	48	46	n.a.	505	165	1821	3084	-934	154
XII.98	593	1124	39	33	380	1127	115	n.a.	32	1	3257	3444	307	360	488	837	69	84	73	n.a.	502	148	1657	2868	-1600	-576
1998	**6165**	**10314**	**336**	**404**	**4450**	**13621**	**3019**	**n.a.**	**210**	**93**	**34954**	**38612**	**3954**	**5259**	**4802**	**12698**	**923**	**1493**	**503**	**n.a.**	**5015**	**2220**	**24327**	**36867**	**-10627**	**-1745**
I.07	1939	1948	204	4	457	1878	565	82	0	104	6995	7181	227	67	949	1393	80	7	0	435	0	170	2723	3328	-4272	-3853
II.07	1594	1598	156	7	409	1040	462	106	0	161	5266	5533	220	95	783	1516	64	24	1	431	0	34	2703	3168	-2563	-2365
III.07	1635	1701	105	23	449	1810	504	99	20	97	6227	6443	268	138	837	1374	71	2	0	472	186	167	2690	3515	-3537	-2928
IV.07	1437	1238	69	12	418	1730	351	34	19	28	5255	5336	276	140	810	1367	66	1	6	648	230	253	2666	3797	-2589	-1539
V.07	1193	801	42	15	443	1384	301	31	22	37	4179	4269	316	294	595	1507	74	4	11	623	300	272	2801	3996	-1378	-273
VI.07	945	562	63	10	422	958	313	75	102	73	3348	3523	370	399	299	1754	60	22	10	379	192	171	3293	3656	-55	133
VII.07	806	507	47	22	424	1487	421	26	58	61	3740	3859	488	546	766	1632	62	38	3	524	202	175	4059	4436	319	577
VIII.07	859	750	13	9	405	1080	341	3	126	75	3460	3661	408	480	663	2249	64	98	2	539	99	154	4503	4756	1043	1095
IX.07	1054	917	23	28	433	1556	280	39	109	100	4330	4539	518	240	753	1552	66	40	7	462	138	105	3638	3881	-692	-658
X.07	1285	1377	28	115	465	1199	429	87	88	53	4985	5126	501	373	935	1263	66	63	3	481	202	141	3685	4028	-1300	-1098
XI.07	1529	1677	44	247	447	1806	483	40	100	89	6273	6462	546	245	1065	450	66	0	1	515	207	95	2888	3190	-3385	-3272
XII.07	1856	1950	92	237	443	2135	441	58	148	93	7212	7453	373	88	966	377	63	1	4	396	150	101	2268	2519	-4944	-4934
2007	**16132**	**15026**	**886**	**729**	**5215**	**18063**	**4891**	**680**	**792**	**971**	**61270**	**63385**	**4511**	**3105**	**9421**	**16434**	**802**	**300**	**48**	**5905**	**1906**	**1838**	**37917**	**44270**	**-23353**	**-19115**
I.08	1778	1915	195	27	460	2222	799	23	32	37	7419	7488	332	59	948	832	71	1	0	667	285	180	2910	3375	-4509	-4113
II.08	1692	1603	84	74	434	1811	687	5	7	10	6390	6407	271	55	787	560	64	30	0	746	227	300	2513	3040	-3877	-3367
III.08	1707	1642	37	167	446	2452	608	8	0	13	7067	7080	476	73	829	338	68	0	1	731	0	344	2516	2860	-4551	-4220
IV.08	1344	1228	28	103	442	2020	359	3	3	8	5527	5538	440	88	712	571	69	1	3	831	60	351	2715	3126	-2812	-2412
V.08	991	562	25	41	446	1642	249	22	56	21	3978	4055	473	334	458	1081	72	29	35	450	200	240	2932	3372	-1046	-683
VI.08	583	471	8	11	436	1244	260	25	31	30	3038	3099	660	520	590	1312	69	74	32	522	151	189	3779	4119	741	1020
VII.08	533	353	14	36	457	1235	409	33	49	54	3070	3173	811	509	747	1156	73	44	2	524	227	262	3866	4355	796	1182
VIII.08	697	726	10	44	421	1094	290	134	244	79	3416	3739	642	323	603	1602	70	152	12	239	39	95	3643	3777	227	38
IX.08	1056	645	154	86	429	1316	323	75	82	57	4084	4223	360	449	306	1015	63	131	10	535	214	159	2869	3242	-1215	-981
X.08	1475	1520	367	230	453	1074	569	42	56	51	5730	5837	338	128	524	377	67	232	0	692	228	179	2358	2765	-3372	-3072
XI.08	1455	1450	339	40	435	1289	559	93	98	76	5660	5834	339	109	604	805	70	92	0	599	197	123	2618	2938	-3042	-2896
XII.08	1686	1743	65	9	443	1460	466	123	120	107	5995	6222	465	62	832	920	79	43	1	644	145	85	3046	3276	-2949	-2946
2008	**14997**	**13858**	**1326**	**868**	**5302**	**18859**	**5578**	**586**	**778**	**543**	**61374**	**62695**	**5607**	**2709**	**7940**	**10569**	**835**	**829**	**96**	**7180**	**1973**	**2507**	**35765**	**40245**	**-25609**	**-22450**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Op eration".

[2] Physical exchanges of the year 1998 with the whole Denmark.

Physical exchanges in interconnected operation [1]

Denmark West | GWh

MM_YY	DK_W→DE	DK_W→NO	DK_W→SE	UCTE_EXP	Total_EXP	DE→DK_W	NO→DK_W	SE→DK_W	UCTE_IMP	Total_IMP	DK_W_UCTE	DK_W_Total
	Export (-)					Import (+)					Balance	
I.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
II.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
III.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
IV.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
V.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
VI.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
VII.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
VIII.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
IX.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
X.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
XI.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
XII.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1998	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**n.a.**
I.07	435	240	103	435	778	82	230	70	82	382	-353	-396
II.07	431	212	201	431	844	106	213	21	106	340	-325	-504
III.07	472	166	50	472	688	99	272	88	99	459	-373	-229
IV.07	648	62	11	648	721	34	415	242	34	691	-614	-30
V.07	623	16	7	623	646	31	512	314	31	857	-592	211
VI.07	379	25	13	379	417	75	279	255	75	609	-304	192
VII.07	524	18	62	524	604	26	607	113	26	746	-498	142
VIII.07	539	0	30	539	569	3	657	150	3	810	-536	241
IX.07	462	10	141	462	613	39	300	116	39	455	-423	-158
X.07	481	65	77	481	623	87	258	142	87	487	-394	-136
XI.07	515	146	169	515	830	40	120	45	40	205	-475	-625
XII.07	396	195	120	396	711	58	107	65	58	230	-338	-481
2007	**5905**	**1155**	**984**	**5905**	**8044**	**680**	**3970**	**1621**	**680**	**6271**	**-5225**	**-1773**
I.08	667	95	65	667	827	23	192	178	23	393	-644	-434
II.08	746	20	40	746	806	5	264	257	5	526	-741	-280
III.08	731	14	44	731	789	8	316	254	8	578	-723	-211
IV.08	831	3	0	831	834	3	353	440	3	796	-828	-38
V.08	450	0	5	450	455	22	286	418	22	726	-428	271
VI.08	522	1	25	522	548	25	352	238	25	615	-497	67
VII.08	524	3	37	524	564	33	606	240	33	879	-491	315
VIII.08	239	26	61	239	326	134	568	47	134	749	-105	423
IX.08	535	10	77	535	622	75	531	188	75	794	-460	172
X.08	692	33	234	692	959	42	558	60	42	660	-650	-299
XI.08	599	114	328	599	1041	93	386	22	93	501	-506	-540
XII.08	644	105	279	644	1028	123	402	22	123	547	-521	-481
2008	**7180**	**424**	**1195**	**7180**	**8799**	**586**	**4814**	**2364**	**586**	**7764**	**-6594**	**-1035**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Denmark West

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	n.a.
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	n.a.
			2007	16403
			2008	15910
Hydraulic net generation	GWh	Σ	1998	n.a.
			2007	31
			2008	27
Other renewable net generation [1]	GWh	Σ	2007	7135
			2008	6804
- of which wind	GWh	Σ	2007	5625
			2008	5209
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007 [2]	23569
			2008 [2]	22741
Physical import	GWh	Σ	1998	n.a.
			2007	6271
			2008	7764
Physical export	GWh	Σ	1998	n.a.
			2007	8044
			2008	8799
Total physical import/export balance	GWh	Σ	1998	n.a.
			2007	-1775
			2008	-1029
Consumption of pumps	GWh	Σ	1998	n.a.
			2007	0
			2008	0
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007	21794
			2008	21712
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	2116
			2008	2083
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	3653
			2008	3508
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	3713
			2008	3664
Time of highest load on the 3rd Wednesday		CET	1998	n.a.
			2007	09:00
			2008	18:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	n.a.

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1402	1728	1436	1142	1035	1157	914	1040	1196	1621	1887	1845
1506	1345	1355	1445	1168	1088	888	826	1157	1499	1723	1910
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	3	4	2	2	2	2	2	2	2	2	3
4	3	4	3	2	1	1	1	2	2	2	2
1035	637	701	573	468	317	545	478	689	402	692	598
969	814	749	338	282	535	399	461	396	652	707	502
913	525	572	453	337	213	425	370	580	257	539	441
817	670	603	215	178	431	274	349	275	510	556	331
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2442	2368	2141	1717	1505	1476	1461	1520	1887	2025	2581	2446
2479	2162	2108	1786	1452	1624	1288	1288	1555	2153	2432	2414
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
382	340	459	691	857	609	746	810	455	487	205	230
393	526	578	796	726	615	879	749	794	660	501	547
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0	n.a.	n.a.	n.a.
778	844	688	721	646	417	604	569	613	623	830	711
827	806	789	834	455	548	564	326	622	959	1041	1028
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-395	-504	-230	-31	211	192	142	242	-159	-136	-627	-480
-431	-278	-211	-36	272	67	314	423	172	-299	-540	-482
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2047	1864	1911	1686	1716	1668	1603	1762	1728	1889	1954	1966
2048	1884	1897	1750	1724	1691	1602	1711	1727	1854	1892	1932
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1970	2087	1977	1887	1859	1789	1638	1900	1823	1884	2038	**2116**
2083	2015	2021	1958	1894	1844	1580	1825	1819	1775	1967	1957
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3483	3573	3254	3136	3132	3024	2684	3235	3179	3198	3476	**3653**
3508	3319	3204	3205	3089	3048	2627	3157	3105	3254	3408	**3508**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3612	3573	3254	3136	3132	3024	2684	3244	3179	3198	3648	**3713**
3664	3351	3204	3205	3089	3049	2627	3157	3105	3254	3580	3571
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
18:00	11:00	11:00	11:00	11:00	11:00	11:00	12:00	11:00	11:00	18:00	**09:00**
18:00	19:00	11:00	11:00	11:00	12:00	11:00	11:00	11:00	11:00	18:00	18:00
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

[2] including deliveries from industry

Spain

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	56572
			2007	52668
			2008	56482
Fossil fuels net generation	GWh	Σ	1998	81879
			2007	157059
			2008	158005
Hydraulic net generation	GWh	Σ	1998	33697
			2007	29881
			2008	25380
Other renewable net generation [1]	GWh	Σ	2007	31764
			2008	38599
- of which wind	GWh	Σ	2007	26888
			2008	31267
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	297
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	183114
			2007	277901
			2008	285681
Physical import	GWh	Σ	1998	8907
			2007	8796
			2008	5894
Physical export	GWh	Σ	1998	5347
			2007	14098
			2008	16485
Total physical import/export balance	GWh	Σ	1998	3404
			2007	-5752
			2008	-11039
Consumption of pumps	GWh	Σ	1998	2588
			2007	4350
			2008	3729
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	183930
			2007	267799
			2008	270913
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	19475
			2007	28413
			2008	27775
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	27473
			2007	41311
			2008	40680
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	48997
			2007	43352
			2008	42588
Time of highest load on the 3rd Wednesday		CET	1998	20:00
			2007	18:00
			2008	19:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	26029

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
4850	4865	4461	4237	4652	4934	5287	5285	4524	4228	4440	4809
5327	4771	4948	4346	3489	3163	3865	3984	4880	4894	3935	5066
5338	5134	5360	4033	4687	4586	4559	4999	4483	4317	4044	4942
4590	4787	7098	6007	5059	5775	7378	6409	8021	8129	8678	9948
13995	10500	10553	11600	12115	13675	14541	12895	13079	13468	15207	15431
15094	15130	12506	12113	11433	11744	14595	13252	13317	13551	13180	12090
5667	3836	2514	3296	3832	3257	2537	2116	1839	1913	1493	1397
2508	3262	4149	3034	3066	2526	2666	2012	1600	1916	1597	1545
1679	1246	1345	2853	3496	3339	2348	1657	1468	1298	1858	2793
2515	3187	3452	1720	2967	2177	2324	2840	2324	2364	3159	2735
3076	2460	4569	3828	2167	2611	2642	2590	2761	3087	4028	4780
2152	2865	3068	1349	2582	1778	1878	2404	1899	1890	2724	2299
2637	2005	4068	3309	1712	2043	2072	1921	2088	2427	3383	3602
0	0	0	0	0	0	0	0	0	0	0	0
25	31	25	25	24	23	24	22	24	26	26	22
16069	14347	14970	14403	14405	14855	16170	14691	15300	15179	15542	17183
24910	22212	23610	21149	22168	22079	23968	22279	22410	23183	24535	25398
25841	24598	24432	23428	22275	22804	24758	23066	22610	22861	23756	25252
683	636	725	714	751	671	803	761	681	821	823	838
1187	895	1045	786	724	804	867	888	527	256	291	526
777	614	364	258	564	336	506	502	417	285	591	680
363	276	304	310	405	413	490	418	669	595	527	577
1032	1089	1242	1012	1191	993	1136	1174	1361	1356	1305	1207
1186	1227	1521	1507	1303	1360	1396	1267	1327	1350	1491	1550
340	346	405	389	355	245	285	320	-25	206	284	254
95	-236	-243	-261	-495	-224	-290	-314	-847	-1154	-1053	-730
-457	-656	-1199	-1292	-761	-1052	-908	-796	-936	-1102	-948	-932
277	135	111	215	182	115	203	320	193	172	214	451
363	389	376	292	397	351	331	368	338	303	375	467
419	411	391	216	200	274	246	186	221	294	411	460
16132	14558	15264	14577	14578	14985	16252	14691	15082	15213	15612	16986
24642	21587	22991	20596	21276	21504	23347	21597	21225	21726	23107	24201
24965	23531	22842	21920	21314	21478	23604	22084	21453	21465	22397	23860
18177	17747	17430	18154	16758	17361	18046	16623	17791	16988	18260	**19475**
28178	26589	26331	23460	23542	23874	25646	22479	23206	23493	26423	**28413**
27775	26842	24202	25353	23786	24462	25304	23962	24243	23116	24110	**25756**
25457	24502	23881	25229	23613	23858	24937	22177	23509	24148	24971	**27473**
39522	37994	38301	34245	34940	35620	38307	25561	34745	34003	37275	**41311**
40591	38543	31944	35484	34962	35412	37088	33392	35793	34214	36505	**40680**
27172	25957	24273	25918	23930	24705	26042	23036	**48997**	25784	26931	29529
40477	38812	40405	35243	35251	36401	39325	29888	35485	36788	39567	**43352**
42118	39519	34000	36942	35136	35903	37618	34186	36328	36487	39568	**42588**
20:00	20:00	21:00	12:00	13:00	18:00	18:00	13:00	06:00	21:00	19:00	**20:00**
20:00	21:00	20:00	21:00	12:00	13:00	13:00	22:00	12:00	20:00	19:00	**18:00**
19:00	20:00	20:00	21:00	12:00	12:00	12:00	13:00	21:00	20:00	19:00	**19:00**
23803	22361	22251	23836	21771	22387	23475	20971	23758	22522	23196	**26029**

Physical exchanges in interconnected operation [1]

Spain | GWh

MM_YY	ES→FR	ES→PT	ES→MA	UCTE_EXP	Total_EXP	FR→ES	PT→ES	MA→ES	UCTE_IMP	Total_IMP	ES_UCTE	ES_Total
	Export (-)					Import (+)					Balance	
I.98	88	275	0	363	363	404	279	0	683	683	320	320
II.98	64	212	0	276	276	406	230	0	636	636	360	360
III.98	62	242	0	304	304	474	251	0	725	725	421	421
IV.98	45	265	0	310	310	448	266	0	714	714	404	404
V.98	47	343	15	390	405	402	348	1	750	751	360	346
VI.98	60	277	76	337	413	387	284	0	671	671	334	258
VII.98	58	365	67	423	490	422	381	0	803	803	380	313
VIII.98	52	301	65	353	418	448	313	0	761	761	408	343
IX.98	72	425	172	497	669	403	278	0	681	681	184	12
X.98	71	359	165	430	595	455	366	0	821	821	391	226
XI.98	74	372	81	446	527	444	379	0	823	823	377	296
XII.98	64	453	60	517	577	494	344	0	838	838	321	261
1998	**757**	**3889**	**701**	**4646**	**5347**	**5187**	**3719**	**1**	**8906**	**8907**	**4260**	**3560**
I.07	71	687	274	758	1032	731	455	1	1186	1187	428	155
II.07	58	784	247	842	1089	537	357	1	894	895	52	-194
III.07	83	831	328	914	1242	700	345	0	1045	1045	131	-197
IV.07	29	694	289	723	1012	681	104	1	785	786	62	-226
V.07	63	748	380	811	1191	569	155	0	724	724	-87	-467
VI.07	48	609	336	657	993	691	113	0	804	804	147	-189
VII.07	79	738	319	817	1136	715	151	1	866	867	49	-269
VIII.07	41	847	286	888	1174	737	150	1	887	888	-1	-286
IX.07	97	918	346	1015	1361	441	86	0	527	527	-488	-834
X.07	182	908	266	1090	1356	221	32	3	253	256	-837	-1100
XI.07	216	859	230	1075	1305	178	111	2	289	291	-786	-1014
XII.07	146	860	201	1006	1207	420	95	11	515	526	-491	-681
2007	**1113**	**9483**	**3502**	**10596**	**14098**	**6621**	**2154**	**21**	**8775**	**8796**	**-1821**	**-5302**
I.08	71	878	237	949	1186	594	181	2	775	777	-174	-409
II.08	35	845	347	880	1227	532	82	0	614	614	-266	-613
III.08	161	1066	294	1227	1521	324	38	2	362	364	-865	-1157
IV.08	174	948	385	1122	1507	197	61	0	258	258	-864	-1249
V.08	115	850	338	965	1303	483	80	1	563	564	-402	-739
VI.08	142	863	355	1005	1360	248	87	1	335	336	-670	-1024
VII.08	129	795	472	924	1396	425	81	0	506	506	-418	-890
VIII.08	79	697	491	776	1267	398	104	0	502	502	-274	-765
IX.08	130	746	451	876	1327	299	118	0	417	417	-459	-910
X.08	191	822	337	1013	1350	217	64	4	281	285	-732	-1065
XI.08	222	1032	237	1254	1491	420	168	3	588	591	-666	-900
XII.08	212	1055	283	1267	1550	427	251	2	678	680	-589	-870
2008	**1661**	**10597**	**4227**	**12258**	**16485**	**4564**	**1315**	**15**	**5879**	**5894**	**-6379**	**-10591**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation [1]

France | GWh

MM_YY	FR→BE	FR→CH	FR→DE	FR→ES	FR→IT	FR→GB	UCTE_EXP	Total_EXP	BE→FR	CH→FR	DE→FR	ES→FR	IT→FR	GB→FR	UCTE_IMP	Total_IMP	FR_UCTE	FR_Total
	Export (-)								Import (+)								Balance	
I.98	489	1098	1520	404	1686	1372	5197	6569	30	51	0	88	32	0	201	201	-4996	-6368
II.98	409	987	1122	406	1612	1328	4536	5864	60	60	0	64	34	0	218	218	-4318	-5646
III.98	611	1097	1522	474	1654	1474	5358	6832	28	50	0	62	34	0	174	174	-5184	-6658
IV.98	467	818	1363	448	1268	1357	4364	5721	116	36	0	45	23	0	220	220	-4144	-5501
V.98	358	810	1368	402	1522	1418	4460	5878	84	12	0	47	37	0	180	180	-4280	-5698
VI.98	443	616	1141	387	1452	1152	4039	5191	9	11	9	60	41	0	130	130	-3909	-5061
VII.98	464	513	853	422	1218	235	3470	3705	48	163	21	58	40	14	330	344	-3140	-3361
VIII.98	237	415	442	448	653	23	2195	2218	232	240	111	52	92	18	727	745	-1468	-1473
IX.98	257	536	786	403	1193	707	3175	3882	208	142	155	72	14	0	591	591	-2584	-3291
X.98	290	804	834	455	1502	1246	3885	5131	112	36	30	71	25	0	274	274	-3611	-4857
XI.98	272	695	910	444	1445	1194	3766	4960	150	83	45	74	36	0	388	388	-3378	-4572
XII.98	178	783	837	494	1381	1092	3673	4765	368	123	33	64	45	0	633	633	-3040	-4132
1998	**4475**	**9172**	**12698**	**5187**	**16586**	**12598**	**48118**	**60716**	**1445**	**1007**	**404**	**757**	**453**	**32**	**4066**	**4098**	**-44052**	**-56618**
I.07	311	1152	1393	731	1296	690	4883	5573	321	139	4	71	87	288	622	910	-4261	-4663
II.07	490	1157	1516	537	1330	550	5030	5580	192	53	7	58	68	217	378	595	-4652	-4985
III.07	466	1287	1374	700	1472	765	5299	6064	278	96	23	83	70	66	550	616	-4749	-5448
IV.07	385	997	1367	681	1425	365	4855	5220	265	120	12	29	58	244	484	728	-4371	-4492
V.07	1057	770	1507	569	1347	697	5250	5947	53	59	15	63	64	182	254	436	-4996	-5511
VI.07	1318	703	1754	691	1471	944	5937	6881	39	93	10	48	41	30	231	261	-5706	-6620
VII.07	949	501	1632	715	1395	1036	5192	6228	42	391	22	79	106	24	640	664	-4552	-5564
VIII.07	1278	726	2249	737	1142	1238	6132	7370	2	290	9	41	126	0	468	468	-5664	-6902
IX.07	917	734	1552	441	1135	946	4779	5725	19	359	28	97	72	6	575	581	-4204	-5144
X.07	613	817	1263	221	1236	645	4150	4795	140	221	115	182	62	249	720	969	-3430	-3826
XI.07	241	671	450	178	905	256	2445	2701	613	385	247	216	184	596	1645	2241	-800	-460
XII.07	321	927	377	420	978	358	3023	3381	357	442	237	146	216	493	1398	1891	-1625	-1490
2007	**8346**	**10442**	**16434**	**6621**	**15132**	**8490**	**56975**	**65465**	**2321**	**2648**	**729**	**1113**	**1154**	**2395**	**7965**	**10360**	**-49010**	**-55105**
I.08	369	983	832	594	1189	1034	3967	5001	241	301	27	71	157	74	797	871	-3170	-4130
II.08	589	1013	560	532	1179	863	3873	4736	125	182	74	35	116	62	532	594	-3341	-4142
III.08	385	858	338	324	1148	806	3053	3859	207	240	167	161	159	53	934	987	-2119	-2872
IV.08	554	794	571	197	1131	1039	3247	4286	72	165	103	174	70	54	584	638	-2663	-3648
V.08	1030	727	1081	483	1240	1472	4561	6033	26	116	41	115	42	0	340	340	-4221	-5693
VI.08	1187	540	1312	248	944	1299	4231	5530	6	266	11	142	61	0	486	486	-3745	-5044
VII.08	711	446	1156	425	1143	1413	3881	5294	84	391	36	129	50	0	690	690	-3191	-4604
VIII.08	1158	562	1602	398	906	1315	4626	5941	32	346	44	79	58	0	559	559	-4067	-5382
IX.08	659	419	1015	299	891	1164	3283	4447	91	552	86	130	61	3	920	923	-2363	-3524
X.08	162	665	377	217	791	758	2212	2970	467	463	230	191	91	183	1442	1625	-770	-1345
XI.08	278	840	805	420	1172	738	3515	4253	287	164	40	222	82	194	795	989	-2720	-3264
XII.08	204	940	920	427	1107	547	3598	4145	398	362	9	212	193	300	1174	1474	-2424	-2671
2008	**7286**	**8787**	**10569**	**4564**	**12841**	**12448**	**44047**	**56495**	**2036**	**3548**	**868**	**1661**	**1140**	**923**	**9253**	**10176**	**-34794**	**-46319**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

France

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	368500
			2007	418609
			2008	418298
Fossil fuels net generation	GWh	Σ	1998	47391
			2007	55033
			2008	53262
Hydraulic net generation	GWh	Σ	1998	61882
			2007	63154
			2008	67960
Other renewable net generation [1]	GWh	Σ	2007	7911
			2008	9595
- of which wind	GWh	Σ	2007	4048
			2008	5557
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	487503
			2007	544707
			2008	549115
Physical import	GWh	Σ	1998	4098
			2007	10360
			2008	10176
Physical export	GWh	Σ	1998	60716
			2007	65465
			2008	56495
Total physical import/export balance	GWh	Σ	1998	-57943
			2007	-56716
			2008	-48004
Consumption of pumps	GWh	Σ	1998	5565
			2007	7683
			2008	6612
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	423995
			2007	480308
			2008	494499
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	53870
			2007	74738
			2008	65817
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	63743
			2007	84816
			2008	81049
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	67251
			2007	87897
			2008	84239
Time of highest load on the 3rd Wednesday		CET	1998	19:00
			2007	19:00
			2008	19:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	72028

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
36954	33565	34315	29984	28368	27214	27803	24470	27450	31551	32598	34228
40872	36169	36738	31721	31803	30865	31819	32610	33301	36896	35806	40009
40922	38900	37204	34294	31973	28517	31838	32030	31239	33950	36123	41308
4218	3967	4725	4751	2832	2736	3669	2688	2970	3058	5209	6568
6519	5865	6333	3593	2837	2490	2588	2090	2941	4237	7522	8018
7011	6151	6405	3900	1952	2875	2526	1733	3096	4397	6062	7154
6460	4748	4784	5808	5977	5857	4149	3220	3882	5829	5989	5179
5360	5530	6755	5319	6041	7205	6135	5071	3965	3888	3335	4550
6037	4421	5531	6988	7167	8311	5983	4247	4832	3751	5103	5589
777	667	693	467	659	520	668	590	562	549	813	946
987	788	1096	734	616	575	672	730	737	741	969	950
425	354	349	185	356	241	331	279	267	273	432	556
604	431	701	420	285	278	340	392	436	451	606	613
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
48603	43141	44717	41368	37933	36536	36346	30996	35001	41261	44689	46912
53528	48231	50519	41100	41340	41080	41210	40361	40769	45570	47476	53523
54957	50260	50236	45916	41708	40278	41019	38740	39904	42839	48257	55001
201	218	174	220	180	130	344	745	591	274	388	633
910	595	616	728	436	261	664	468	581	969	2241	1891
871	594	987	638	340	486	690	559	923	1625	989	1474
6569	5864	6832	5721	5878	5191	3705	2218	3882	5131	4960	4765
5573	5580	6064	5220	5947	6881	6228	7370	5725	4795	2701	3381
5001	4736	3859	4286	6033	5530	5294	5941	4447	2970	4253	4145
-6548	-5994	-6794	-5576	-5766	-5149	-3444	-1514	-3191	-4945	-4744	-4278
-4799	-5104	-5561	-4608	-5635	-6739	-5753	-7085	-5280	-3920	-595	-1637
-4300	-4302	-3020	-3764	-5798	-5160	-4747	-5510	-3683	-1444	-3427	-2849
497	321	430	430	457	459	546	391	460	615	493	466
759	669	567	682	711	449	499	424	505	782	813	823
799	691	750	531	454	289	273	279	498	706	618	724
41558	36826	37493	35362	31710	30928	32356	29091	31350	35701	39452	42168
47970	42458	44391	35810	34994	33892	34958	32852	34984	40868	46068	51063
49858	45267	46466	41621	35456	34829	35999	32951	35723	40689	44212	51428
52909	48905	46579	49156	37656	38502	35414	34558	38982	44165	**53870**	49722
55398	55558	63234	43021	43622	41374	42412	37137	42382	45189	55909	**74738**
59631	60831	59647	56130	43005	42227	43032	38357	42985	43709	53708	**65817**
63743	58173	56513	61942	49863	50945	51100	44941	52311	57536	60637	61779
69447	67724	72465	56239	57890	56143	56829	42016	57495	60488	69864	**84816**
74468	71400	71181	67199	56931	56501	57469	51227	57455	59506	68408	**81049**
67251	59766	57617	62029	50317	51360	51697	45617	52513	58196	65481	64931
72668	69366	73981	56753	58357	56758	57763	44765	58000	61781	73257	**87897**
77932	72810	74083	68374	57506	57592	58645	52650	58173	60549	72967	**84239**
19:00	09:00	10:00	12:00	12:00	12:00	12:00	13:00	10:00	10:00	19:00	19:00
19:00	19:00	20:00	12:00	13:00	12:00	12:00	13:00	12:00	20:00	19:00	**19:00**
19:00	19:00	20:00	09:00	13:00	13:00	13:00	13:00	12:00	20:00	19:00	**19:00**
72028	65738	64935	67759	56942	56646	54437	46345	56706	63460	66398	67971

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	0
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	35000
			2007	47577
			2008	46717
Hydraulic net generation	GWh	Σ	1998	3849
			2007	3367
			2008	3298
Other renewable net generation [1]	GWh	Σ	2007	1511
			2008	1878
- of which wind	GWh	Σ	2007	1333
			2008	1662
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	40882
			2007 [2]	52455
			2008 [2]	51893
Physical import	GWh	Σ	1998	2509
			2007	6421
			2008	7575
Physical export	GWh	Σ	1998	889
			2007	2055
			2008	1964
Total physical import/export balance	GWh	Σ	1998	1618
			2007	4355
			2008	5615
Consumption of pumps	GWh	Σ	1998	208
			2007	1122
			2008	1198
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	42292
			2007	55688
			2008	56310
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	4766
			2007	6262
			2008	6323
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	7113
			2007	9424
			2008	8777
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	7380
			2007	9771
			2008	9007
Time of highest load on the 3rd Wednesday		CET	1998	13:00
			2007	13:00
			2008	13:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	7145

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
2862	2447	2906	2649	2700	2916	3371	3286	2877	2980	2869	3137
4104	3683	3745	3453	3762	3998	4636	4303	3812	3898	3914	4269
4307	3741	3253	3427	3693	4049	4754	4325	3919	3784	3624	3841
333	567	279	142	171	249	423	364	159	169	393	600
313	238	193	208	283	336	523	315	185	179	278	316
308	289	253	179	264	379	450	302	230	181	199	264
140	127	154	92	88	80	149	119	123	130	150	159
144	135	193	163	96	131	146	194	123	178	145	230
130	118	142	80	74	67	135	104	106	110	129	138
123	115	173	143	78	115	131	178	107	160	127	212
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
3362	3171	3351	2937	3022	3331	3993	3841	3195	3313	3433	3933
4557	4048	4092	3753	4133	4414	5308	4737	4120	4207	4342	4744
4759	4165	3699	3769	4053	4559	5350	4821	4272	4143	3968	4335
238	95	250	274	240	292	358	278	231	136	73	44
402	489	638	488	422	667	734	631	564	508	409	469
485	660	853	597	567	655	675	741	580	469	640	653
74	95	93	70	45	53	43	75	56	81	71	133
238	200	151	128	128	103	103	113	189	230	232	240
226	190	182	161	112	108	101	127	156	222	193	186
163	0	157	204	195	239	315	203	175	55	1	-89
162	290	485	362	291	562	629	519	372	278	177	228
260	471	672	436	456	547	574	614	424	248	447	466
13	1	28	23	20	23	9	11	26	28	25	1
92	94	112	99	104	83	82	86	95	105	80	90
103	96	101	100	101	91	94	95	98	105	104	110
3512	3170	3480	3118	3197	3547	4299	4033	3344	3340	3409	3843
4627	4244	4465	4016	4320	4893	5855	5170	4397	4380	4439	4882
4916	4540	4270	4105	4408	5015	5830	5340	4598	4286	4311	4691
3966	3753	4255	3386	3212	3701	**4766**	4206	3493	3367	3790	4255
4855	4825	4430	4397	4523	5569	**6262**	5170	4617	4312	4628	5455
4963	5314	4285	4259	4509	5265	**6323**	5867	4826	4218	4530	4688
6006	5575	5972	5368	5144	5984	**7113**	6204	5570	5461	5563	6289
7284	7114	6765	6603	7495	9008	**9424**	6059	7490	6842	7214	8173
7671	7889	5986	6580	7269	8731	**8777**	8537	7529	6821	7299	7201
6160	5989	6244	5778	5583	6331	**7380**	6781	5890	5806	6165	6652
7796	7673	7393	7258	7718	9342	**9771**	6781	7839	7371	7905	8951
8013	8226	6382	7143	7368	**9007**	8933	8860	7659	7391	7738	7899
12:00	20:00	20:00	22:00	22:00	13:00	**13:00**	23:00	21:00	20:00	19:00	20:00
19:00	19:00	20:00	21:00	21:00	13:00	**13:00**	21:00	20:00	20:00	18:00	18:00
19:00	19:00	19:00	21:00	12:00	**13:00**	13:00	13:00	20:00	20:00	18:00	18:00
6052	5609	5932	5311	5181	6076	**7145**	6244	5637	5491	5538	6248

[2] including deliveries from industry

Physical exchanges in interconnected operation [1]

Greece | GWh

MM_YY	GR→BG	GR→IT	GR→MK[2]	GR→AL	GR→TR	UCTE_EXP	Total_EXP	BG→GR	IT→GR	MK[2]→GR	AL→GR	TR→GR	UCTE_IMP	Total_IMP	GR_UCTE	GR_Total
	Export (-)							Import (+)							Balance	
I.98	0		0	74		0	74	135		102	1		102	238	102	164
II.98	7		1	87		1	95	33		61	1		61	95	60	0
III.98	1		0	92		0	93	133		116	1		116	250	116	157
IV.98	4		1	65		1	70	122		151	1		151	274	150	204
V.98	1		1	43		1	45	117		122	1		122	240	121	195
VI.98	0		0	53		0	53	144		146	2		146	292	146	239
VII.98	1		0	42		0	43	183		173	2		173	358	173	315
VIII.98	0		0	75		0	75	59		218	1		218	278	218	203
IX.98	4		0	52		0	56	50		180	1		180	231	180	175
X.98	5		1	75		1	81	59		77	0		77	136	76	55
XI.98	4		1	66		1	71	41		32	0		32	73	31	2
XII.98	24		18	91		18	133	10		34	0		34	44	16	-89
1998	**51**		**23**	**815**		**23**	**889**	**1086**		**1412**	**11**		**1412**	**2509**	**1389**	**1620**
I.07	0	0	15	223	0	15	238	243	125	34	0	0	402	402	387	164
II.07	0	1	3	196	0	4	200	290	129	70	0	0	489	489	485	289
III.07	0	5	0	146	0	5	151	415	97	126	0	0	638	638	633	487
IV.07	0	19	0	109	0	19	128	331	77	80	0	0	488	488	469	360
V.07	0	5	0	123	0	5	128	209	140	73	0	0	422	422	417	294
VI.07	0	2	0	101	0	2	103	479	105	83	0	0	667	667	665	564
VII.07	0	0	0	103	0	0	103	422	197	115	0	0	734	734	734	631
VIII.07	0	0	1	112	0	1	113	403	45	118	0	65	566	631	565	518
IX.07	0	47	21	121	0	68	189	409	85	46	0	24	540	564	472	375
X.07	0	16	30	184	0	46	230	358	99	51	0	0	508	508	462	278
XI.07	0	32	25	175	0	57	232	364	13	32	0	0	409	409	352	177
XII.07	0	43	16	181	0	59	240	374	19	76	0	0	469	469	410	229
2007	**0**	**170**	**111**	**1774**	**0**	**281**	**2055**	**4297**	**1131**	**904**	**0**	**89**	**6332**	**6421**	**6051**	**4366**
I.08	0	8	18	191	9	26	226	322	108	55	0	0	485	485	459	259
II.08	0	6	7	156	21	13	190	340	236	84	0	0	660	660	647	470
III.08	0	5	7	170	0	12	182	428	282	143	0	0	853	853	841	671
IV.08	0	55	3	103	0	58	161	395	99	103	0	0	597	597	539	436
V.08	0	11	5	96	0	16	112	351	138	78	0	0	567	567	551	455
VI.08	0	13	2	93	0	15	108	415	138	102	0	0	655	655	640	547
VII.08	0	0	3	98	0	3	101	467	91	117	0	0	675	675	672	574
VIII.08	0	11	2	114	0	13	127	486	150	105	0	0	741	741	728	614
IX.08	0	6	16	134	0	22	156	381	144	55	0	0	580	580	558	424
X.08	0	35	30	157	0	65	222	374	58	37	0	0	469	469	404	247
XI.08	0	13	2	178	0	15	193	398	121	121	0	0	640	640	625	447
XII.08	0	18	0	168	0	18	186	271	193	189	0	0	653	653	635	467
2008	**0**	**181**	**95**	**1658**	**30**	**276**	**1964**	**4628**	**1758**	**1189**	**0**	**0**	**7575**	**7575**	**7299**	**5611**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation". [2] Physical exchanges of the year 2008 with YUGO

Physical exchanges in interconnected operation [1]

Croatia | GWh

MM_YY	HR→BA	HR→YUGO	HR→HU	HR→RS	HR→SI	UCTE_EXP	Total_EXP	BA→HR	YUGO→HR	HU→HR	RS→HR	SI→HR	UCTE_IMP	Total_IMP	HR_UCTE	HR_Total
	Export (-)							Import (+)							Balance	
I.98	0	0	0		0	0	0	7	16	23		49	72	95	72	95
II.98	0	0	0		0	0	0	27	9	19		61	97	116	97	116
III.98	49	0	0		0	49	49	69	24	14		102	195	209	146	160
IV.98	10	0	0		0	10	10	68	1	22		82	151	173	141	163
V.98	8	0	0		0	8	8	105	9	60		106	220	280	212	272
VI.98	52	2	0		0	54	54	84	0	33		114	198	231	144	177
VII.98	69	0	0		0	69	69	62	2	39		147	211	250	142	181
VIII.98	41	0	0		0	41	41	67	1	36		148	216	252	175	211
IX.98	56	0	0		0	56	56	103	0	32		91	194	226	138	170
X.98	8	0	0		0	8	8	90	0	45		72	162	207	154	199
XI.98	8	0	0		0	8	8	51	0	35		58	109	144	101	136
XII.98	9	0	0		0	9	9	60	0	58		123	183	241	174	232
1998	**310**	**2**	**0**		**0**	**312**	**312**	**793**	**62**	**416**		**1153**	**2008**	**2424**	**1696**	**2112**
I.07	136		0	0	481	617	617	138		769	170	66	1143	1143	526	526
II.07	56		0	0	376	432	432	157		650	151	82	1040	1040	608	608
III.07	67		0	0	467	534	534	133		641	106	115	995	995	461	461
IV.07	82		0	0	381	463	463	95		500	118	185	898	898	435	435
V.07	112		0	0	209	321	321	103		432	149	174	858	858	537	537
VI.07	122		0	0	156	278	278	62		393	133	182	770	770	492	492
VII.07	141		0	0	219	360	360	75		398	111	283	867	867	507	507
VIII.07	172		0	0	124	296	296	66		384	89	344	883	883	587	587
IX.07	86		0	0	266	352	352	126		330	151	298	905	905	553	553
X.07	78		0	0	545	623	623	189		631	198	25	1043	1043	420	420
XI.07	54		0	0	640	694	694	317		675	206	35	1233	1233	539	539
XII.07	69		0	0	515	584	584	241		733	209	79	1262	1262	678	678
2007	**1175**		**0**	**0**	**4379**	**5554**	**5554**	**1702**		**6536**	**1791**	**1868**	**11897**	**11897**	**6343**	**6343**
I.08	64		0	0	513	577	577	191		733	206	68	1198	1198	621	621
II.08	74		0	0	403	477	477	184		606	166	101	1057	1057	580	580
III.08	50		0	0	551	601	601	282		610	216	69	1177	1177	576	576
IV.08	33		0	0	474	507	507	261		373	183	152	969	969	462	462
V.08	56		1	0	306	363	363	163		293	160	271	887	887	524	524
VI.08	55		2	0	265	322	322	162		185	138	272	757	757	435	435
VII.08	55		0	0	367	422	422	259		336	181	252	1028	1028	606	606
VIII.08	111		0	0	233	344	344	127		298	134	383	942	942	598	598
IX.08	62		1	0	270	333	333	176		268	144	296	884	884	551	551
X.08	47		0	0	426	473	473	280		533	149	134	1096	1096	623	623
XI.08	61		0	0	448	509	509	263		507	202	122	1094	1094	585	585
XII.08	69		0	0	672	741	741	316		559	182	101	1158	1158	417	417
2008	**737**		**4**	**0**	**4928**	**5669**	**5669**	**2664**		**5301**	**2061**	**2221**	**12247**	**12247**	**6578**	**6578**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Croatia

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	0
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	4573
			2007	6664
			2008	6090
Hydraulic net generation	GWh	Σ	1998	5437
			2007	4361
			2008	5284
Other renewable net generation [1]	GWh	Σ	2007	39
			2008	44
- of which wind	GWh	Σ	2007	35
			2008	41
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998 [2]	10010
			2007 [2]	11064
			2008 [2]	11418
Physical import	GWh	Σ	1998	2424
			2007	11897
			2008	12247
Physical export	GWh	Σ	1998	312
			2007	5554
			2008	5669
Total physical import/export balance	GWh	Σ	1998	2111
			2007	6549
			2008	6597
Consumption of pumps	GWh	Σ	1998	13
			2007	233
			2008	154
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	12108
			2007	17380
			2008	17861
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	1232
			2007	1778
			2008	1675
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	2203
			2007	2713
			2008	2556
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	2354
			2007	3036
			2008	2839
Time of highest load on the 3rd Wednesday		CET	1998	18:00
			2007	18:00
			2008	20:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	1880

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
291	412	497	302	271	209	262	452	450	223	504	700
684	429	496	428	452	489	555	608	537	745	676	565
564	599	559	379	347	493	583	560	596	594	456	360
665	403	348	411	413	343	352	342	366	653	617	524
369	385	534	427	348	271	316	254	259	312	380	506
505	372	437	566	488	468	346	323	267	228	427	857
3	4	5	2	3	1	2	3	4	4	5	3
4	4	4	5	3	2	3	2	4	3	4	6
3	3	4	2	3	1	2	3	3	4	4	3
4	3	4	4	3	2	3	2	4	3	4	5
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
956	815	845	713	684	552	614	794	816	876	1121	1224
1056	818	1035	857	803	761	873	865	800	1061	1061	1074
1073	975	1000	950	838	963	932	885	867	825	887	1223
95	116	209	173	280	231	250	252	226	207	144	241
1143	1040	995	898	858	770	867	883	905	1043	1233	1262
1198	1057	1177	969	887	757	1028	942	884	1096	1094	1158
0	0	49	10	8	54	69	41	56	8	8	9
617	432	534	463	321	278	360	296	352	623	694	584
577	477	601	507	363	322	422	344	333	473	509	741
94	116	160	163	272	177	181	211	170	199	136	232
520	611	463	437	537	572	632	589	551	420	538	679
622	581	576	461	525	436	606	600	552	623	597	418
1	1	1	1	1	2	1	0	1	3	1	0
21	23	13	14	21	10	20	21	25	15	29	21
14	12	6	14	10	17	25	19	10	18	9	0
1049	930	1004	875	955	727	794	1005	985	1072	1256	1456
1555	1406	1485	1280	1319	1323	1485	1433	1326	1466	1570	1732
1681	1544	1570	1397	1353	1382	1513	1466	1409	1430	1475	1641
1232	1120	1197	1091	944	905	961	1042	953	989	1225	**1232**
1480	1509	1490	1296	1306	1439	1593	1400	1323	1406	1669	**1778**
1571	**1675**	1567	1467	1352	1367	1486	1469	1362	1362	1464	1544
1998	1927	2008	1825	1608	1614	1639	1657	1627	1832	2110	**2203**
2388	2298	2357	2004	2024	2308	2448	1871	2122	2183	2591	**2713**
2495	**2556**	2427	2256	2184	2190	2284	2310	2187	2141	2349	2540
2168	2055	2115	1860	1997	1671	1702	1702	1773	1940	2281	**2354**
2621	2549	2624	2302	2179	2446	2633	2109	2350	2562	2902	**3036**
2740	**2839**	2738	2515	2269	2267	2434	2553	2463	2512	2737	2741
19:00	20:00	20:00	10:00	15:00	12:00	12:00	21:00	21:00	20:00	19:00	**18:00**
18:00	19:00	20:00	21:00	22:00	13:00	13:00	22:00	21:00	20:00	18:00	**18:00**
18:00	**20:00**	20:00	21:00	21:00	22:00	22:00	21:00	21:00	20:00	18:00	18:00
1817	1703	1703	1466	1131	1292	1315	1358	1320	1345	**1880**	1730

[2] including deliveries from industry

Hungary

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	13122
			2007	13796
			2008	13967
Fossil fuels net generation	GWh	Σ	1998	21924
			2007	21811
			2008	19375
Hydraulic net generation	GWh	Σ	1998	150
			2007	209
			2008	208
Other renewable net generation [1]	GWh	Σ	2007	1485
			2008	1460
- of which wind	GWh	Σ	2007	110
			2008	181
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	2372
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998 [2]	34169
			2007 [2]	37301
			2008 [2]	37382
Physical import	GWh	Σ	1998	2249
			2007	14680
			2008	12772
Physical export	GWh	Σ	1998	2465
			2007	10696
			2008	8867
Total physical import/export balance	GWh	Σ	1998	741
			2007	3988
			2008	3902
Consumption of pumps	GWh	Σ	1998	0
			2007	0
			2008	0
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	34910
			2007	41289
			2008	41284
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	4700
			2008	4702
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	6019
			2008	6104
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	6540
			2008	6286
Time of highest load on the 3rd Wednesday		CET	1998	n.a.
			2007	18:00
			2008	20:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	5496

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1262	1150	1016	816	947	910	890	1040	1239	1295	1258	1299
1342	1205	977	952	1011	1075	1011	1177	1013	1331	1327	1375
1384	1296	1323	976	997	1017	1014	1009	998	1290	1255	1408
1827	1827	1827	1827	1827	1827	1827	1827	1827	1827	1827	1827
1957	1692	1993	1730	1756	1634	1747	1661	1653	1872	1998	2118
1754	1445	1583	1591	1462	1544	1615	1638	1693	1710	1703	1637
13	15	16	8	14	15	4	19	20	8	3	15
12	4	9	26	25	20	18	12	22	22	21	18
18	19	6	10	18	24	21	19	19	21	17	16
112	119	111	99	123	124	142	130	113	130	139	143
117	111	120	84	104	99	117	106	158	151	139	154
10	7	10	6	9	5	11	7	11	8	17	9
12	12	17	2	13	8	20	15	18	15	20	29
0	0	0	0	0	0	0	0	0	0	0	0
207	237	256	234	163	182	165	141	110	217	227	233
3102	2839	3091	2679	2512	2449	2535	2578	2799	2970	3234	3381
3423	3020	3090	2807	2915	2853	2918	2980	2801	3355	3485	3654
3480	3108	3288	2895	2744	2866	2932	2913	2978	3389	3341	3448
207	152	163	167	187	176	210	124	177	237	223	226
1480	1360	1379	1102	1120	1072	1312	1186	1130	1195	1125	1219
1455	1353	1224	1032	1034	854	1037	954	966	1050	925	888
202	173	186	161	161	99	132	142	323	257	263	366
1267	1088	979	702	724	562	729	801	645	992	1026	1181
1164	970	947	565	472	399	543	560	588	943	817	899
127	66	61	98	177	136	153	36	-50	20	-8	-75
214	271	401	400	397	511	583	385	487	203	98	38
291	382	277	467	560	456	494	394	379	107	107	-12
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
3229	2905	3152	2777	2689	2585	2688	2614	2749	2990	3226	3306
3637	3291	3491	3207	3312	3364	3501	3365	3288	3558	3583	3692
3771	3490	3565	3362	3304	3322	3426	3307	3357	3496	3448	3436
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4576	4588	4472	4146	4105	4451	4523	4139	4090	4435	4543	**4700**
4665	**4702**	4530	4235	4123	4239	4117	3780	4120	4394	4237	4087
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5710	5714	5497	5303	5144	5781	5976	5470	5347	5593	5746	**6019**
6104	5848	5754	5547	5375	5559	5519	4232	5588	5518	5764	5440
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6105	6051	5893	5532	5367	6116	6174	5690	5699	6096	6460	**6540**
6286	6186	6135	5692	5467	5688	5651	4424	5770	6045	6184	5830
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
18:00	20:00	16:00	21:00	22:00	16:00	16:00	18:00	21:00	20:00	18:00	**18:00**
20:00	19:00	20:00	21:00	13:00	12:00	14:00	22:00	21:00	20:00	18:00	18:00
5026	4618	4731	4167	4176	4250	4442	4404	4765	4776	5211	**5496**

[2] including deliveries from industry

Physical exchanges in interconnected operation [1]

Hungary | GWh

MM_YY	HU→AT	HU→HR	HU→RO	HU→RS	HU→SK	HU→YUGO	HU→UA_W	UCTE_EXP	Total_EXP	AT→HU	YUGO→HU	HR→HU	RO→HU	RS→HU	SK→HU	UA_W→HU	UCTE_IMP	Total_IMP	HU_UCTE	HU_Total
	Export (-)									Import (+)									Balance	
I.98	58	23	0		1	120	0	201	202	23	0	0	0		184	0	23	207	-178	5
II.98	46	19	0		3	105	0	170	173	23	0	0	0		129	0	23	152	-147	-21
III.98	98	14	0		42	32	0	144	186	5	0	0	0		158	0	5	163	-139	-23
IV.98	122	22	0		8	9	0	153	161	2	0	0	0		165	0	2	167	-151	6
V.98	95	60	0		6	0	0	155	161	7	0	0	0		180	0	7	187	-148	26
VI.98	52	33	0		7	7	0	92	99	10	0	0	0		166	0	10	176	-82	77
VII.98	77	39	0		3	13	0	129	132	6	0	0	0		204	0	6	210	-123	78
VIII.98	75	36	0		6	25	0	136	142	7	0	0	0		117	0	7	124	-129	-18
IX.98	220	32	0		2	69	0	321	323	2	0	0	0		175	0	2	177	-319	-146
X.98	126	45	0		4	82	0	253	257	11	0	0	0		226	0	11	237	-242	-20
XI.98	121	35	0		1	106	0	262	263	9	0	0	0		214	0	9	223	-253	-40
XII.98	185	58	0		0	123	0	366	366	1	0	0	0		225	0	1	226	-365	-140
1998	**1275**	**416**	**0**		**83**	**691**	**0**	**2382**	**2465**	**106**	**0**	**0**	**0**		**2143**	**0**	**106**	**2249**	**-2276**	**-216**
I.07	20	769	49	423	0		6	1261	1267	104		0	5	0	1010	361	1119	1480	-142	213
II.07	30	650	24	384	0		0	1088	1088	91		0	2	0	897	370	990	1360	-98	272
III.07	27	641	61	218	0		32	947	979	76		0	0	0	985	318	1061	1379	114	400
IV.07	17	500	70	113	0		2	700	702	88		0	3	0	597	414	688	1102	-12	400
V.07	77	432	23	189	0		3	721	724	63		0	29	0	812	216	904	1120	183	396
VI.07	5	393	7	155	0		2	560	562	132		0	46	0	637	257	815	1072	255	510
VII.07	1	398	5	320	0		5	724	729	243		0	15	0	724	330	982	1312	258	583
VIII.07	4	384	75	330	0		8	793	801	160		0	2	0	700	324	862	1186	69	385
IX.07	5	330	18	278	0		14	631	645	186		0	26	0	610	308	822	1130	191	485
X.07	14	631	24	311	0		12	980	992	127		0	35	0	671	362	833	1195	-147	203
XI.07	18	675	6	320	0		7	1019	1026	101		0	54	0	635	335	790	1125	-229	99
XII.07	25	733	18	389	0		16	1165	1181	86		0	33	0	780	320	899	1219	-266	38
2007	**243**	**6536**	**380**	**3430**	**0**		**107**	**10589**	**10696**	**1457**		**0**	**250**	**0**	**9058**	**3915**	**10765**	**14680**	**176**	**3984**
I.08	19	733	12	395	0		5	1159	1164	113		0	29	0	940	373	1082	1455	-77	291
II.08	10	606	17	337	0		0	970	970	121		0	18	0	850	364	989	1353	19	383
III.08	42	610	4	273	0		18	929	947	88		0	47	0	782	307	917	1224	-12	277
IV.08	45	373	0	146	0		1	564	565	53		0	136	0	591	252	780	1032	216	467
V.08	25	293	0	151	0		3	469	472	61		1	126	0	666	180	854	1034	385	562
VI.08	71	185	1	133	0		9	390	399	40		2	92	0	408	312	542	854	152	455
VII.08	36	336	0	171	0		0	543	543	72		0	101	0	456	408	629	1037	86	494
VIII.08	16	298	16	207	0		23	537	560	122		0	27	0	491	314	640	954	103	394
IX.08	103	268	27	184	0		6	582	588	48		1	23	0	583	311	655	966	73	378
X.08	203	533	5	198	0		4	939	943	27		0	44	0	699	280	770	1050	-169	107
XI.08	99	507	8	196	0		7	810	817	44		0	46	0	492	343	582	925	-228	108
XII.08	52	559	14	259	0		15	884	899	50		0	31	0	496	311	577	888	-307	-11
2008	**721**	**5301**	**104**	**2650**	**0**		**91**	**8776**	**8867**	**839**		**4**	**720**	**0**	**7454**	**3755**	**9017**	**12772**	**241**	**3905**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation [1]

Italy | GWh

MM_YY	IT→AT	IT→CH	IT→FR	IT→GR	IT→SI	UCTE_EXP	Total_EXP	AT→IT	CH→IT	FR→IT	GR→IT	SI→IT	UCTE_IMP	Total_IMP	IT_UCTE	IT_Total
	Export (-)							Import (+)							Balance	
I.98	0	0	32	0	65	97	97	133	1677	1686	0	64	3560	3560	3463	3463
II.98	0	0	34	0	85	119	119	103	1476	1612	0	24	3215	3215	3096	3096
III.98	0	0	34	0	99	133	133	123	1932	1654	0	31	3740	3740	3607	3607
IV.98	0	0	23	0	54	77	77	139	1944	1268	0	75	3426	3426	3349	3349
V.98	0	7	37	0	80	124	124	136	2020	1522	0	45	3723	3723	3599	3599
VI.98	0	1	41	0	12	54	54	146	1843	1452	0	82	3523	3523	3469	3469
VII.98	0	1	40	0	11	52	52	166	2046	1218	0	184	3614	3614	3562	3562
VIII.98	0	1	92	0	8	101	101	115	1401	653	0	148	2317	2317	2216	2216
IX.98	0	0	14	0	5	19	19	130	1950	1193	0	375	3648	3648	3629	3629
X.98	0	0	25	0	6	31	31	142	1672	1502	0	368	3684	3684	3653	3653
XI.98	0	0	36	0	2	38	38	147	1652	1445	0	321	3565	3565	3527	3527
XII.98	0	0	45	0	8	53	53	152	1854	1381	0	224	3611	3611	3558	3558
1998	**0**	**10**	**453**	**0**	**435**	**898**	**898**	**1632**	**21467**	**16586**	**0**	**1941**	**41626**	**41626**	**40728**	**40728**
I.07	0	0	87	125	1	213	213	121	2799	1296	0	357	4573	4573	4360	4360
II.07	0	0	68	129	1	198	198	109	2526	1330	1	268	4234	4234	4036	4036
III.07	0	1	70	97	0	168	168	125	2832	1472	5	435	4869	4869	4701	4701
IV.07	0	0	58	77	1	136	136	118	2766	1425	19	399	4727	4727	4591	4591
V.07	0	0	64	140	69	273	273	129	2501	1347	5	85	4067	4067	3794	3794
VI.07	0	8	41	105	114	268	268	111	2464	1471	2	27	4075	4075	3807	3807
VII.07	0	1	106	197	12	316	316	139	2585	1395	0	194	4313	4313	3997	3997
VIII.07	0	2	126	45	78	251	251	98	1927	1142	0	45	3212	3212	2961	2961
IX.07	0	1	72	85	5	163	163	128	2257	1135	47	212	3779	3779	3616	3616
X.07	0	5	62	99	5	171	171	124	2336	1236	16	303	4015	4015	3844	3844
XI.07	0	28	184	13	0	225	225	77	1724	905	32	483	3221	3221	2996	2996
XII.07	0	20	216	19	9	264	264	126	2142	978	43	425	3714	3714	3450	3450
2007	**0**	**66**	**1154**	**1131**	**295**	**2646**	**2646**	**1405**	**28859**	**15132**	**170**	**3233**	**48799**	**48799**	**46153**	**46153**
I.08	0	6	157	108	2	273	273	114	2185	1189	8	415	3911	3911	3638	3638
II.08	0	7	116	236	2	361	361	107	2176	1179	6	305	3773	3773	3412	3412
III.08	0	22	159	282	1	464	464	124	2146	1148	5	447	3870	3870	3406	3406
IV.08	0	13	70	99	0	182	182	115	1933	1131	55	509	3743	3743	3561	3561
V.08	0	9	42	138	3	192	192	121	2333	1240	11	380	4085	4085	3893	3893
VI.08	0	62	61	138	8	269	269	114	1636	944	13	341	3048	3048	2779	2779
VII.08	0	29	50	91	1	171	171	110	2117	1143	0	491	3861	3861	3690	3690
VIII.08	0	37	58	150	4	249	249	120	1608	906	11	204	2849	2849	2600	2600
IX.08	1	61	61	144	69	336	336	90	1932	891	6	164	3083	3083	2747	2747
X.08	0	86	91	58	4	239	239	112	1853	791	35	322	3113	3113	2874	2874
XI.08	0	26	82	121	1	230	230	120	2136	1172	13	411	3852	3852	3622	3622
XII.08	0	42	193	193	0	428	428	120	2107	1107	18	744	4096	4096	3668	3668
2008	**1**	**400**	**1140**	**1758**	**95**	**3394**	**3394**	**1367**	**24162**	**12841**	**181**	**4733**	**43284**	**43284**	**39890**	**39890**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Italy

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	0
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	200037
			2007	253866
			2008	250266
Hydraulic net generation	GWh	Σ	1998	46976
			2007	37961
			2008	46695
Other renewable net generation [1]	GWh	Σ	2007	9602
			2008	10248
- of which wind	GWh	Σ	2007	4034
			2008	4852
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	247013
			2007	301429
			2008	307209
Physical import	GWh	Σ	1998	41626
			2007	48799
			2008	43284
Physical export	GWh	Σ	1998	898
			2007	2646
			2008	3394
Total physical import/export balance	GWh	Σ	1998	40726
			2007	46153
			2008	39890
Consumption of pumps	GWh	Σ	1998	8338
			2007	7654
			2008	7618
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	279401
			2007	339928
			2008	339481
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	25213
			2007	35086
			2008	32482
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	42384
			2007	55883
			2008	51936
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	45115
			2007	55883
			2008	52632
Time of highest load on the 3rd Wednesday		CET	1998	17:00
			2007	11:00
			2008	17:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	39775

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
17885	17140	18416	15866	14826	15439	17410	14745	16565	16406	17560	17779
22073	20096	21475	18507	20694	20165	22730	18905	21142	22453	23006	22620
23109	22296	21899	20055	18797	19815	22259	19076	21976	22536	19397	19051
3397	2855	2843	3722	5189	5407	4865	3585	3955	4591	3541	3026
2691	2682	2660	2973	3663	4850	4592	3533	2994	2651	2431	2241
2784	2465	2690	3076	4836	6018	5632	4260	4056	2916	4119	3843
857	829	890	645	787	697	721	795	781	763	898	939
916	817	1099	1096	829	706	790	714	716	741	854	970
387	392	409	181	309	246	266	327	335	286	435	461
453	376	621	634	372	264	323	243	286	306	435	539
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
21282	19995	21259	19588	20015	20846	22275	18330	20520	20997	21101	20805
25621	23607	25025	22125	25144	25712	28043	23233	24917	25867	26335	25800
26809	25578	25688	24227	24462	26539	28681	24050	26748	26193	24370	23864
3560	3215	3740	3426	3723	3523	3614	2317	3648	3684	3565	3611
4573	4234	4869	4727	4067	4075	4313	3212	3779	4015	3221	3714
3911	3773	3870	3743	4085	3048	3861	2849	3083	3113	3852	4096
97	119	133	77	124	54	52	101	19	31	38	53
213	198	168	136	273	268	316	251	163	171	225	264
273	361	464	182	192	269	171	249	336	239	230	428
3464	3095	3608	3349	3601	3468	3563	2215	3628	3652	3526	3557
4360	4036	4701	4591	3794	3807	3997	2961	3615	3845	2996	3450
3638	3412	3406	3561	3893	2779	3690	2600	2747	2874	3622	3668
720	655	712	530	684	668	761	550	810	728	788	732
747	592	619	637	644	578	631	500	563	618	766	759
639	571	599	593	663	687	618	610	649	681	725	583
24026	22435	24155	22407	22932	23646	25077	19995	23338	23921	23839	23630
29234	27051	29107	26079	28294	28941	31409	25694	27969	29094	28565	28491
29808	28419	28495	27195	27692	28631	31753	26040	28846	28386	27267	26949
23676	23488	23633	22397	23426	24126	**25213**	22739	23822	23265	23804	23990
30506	30569	29977	29872	30181	33394	**35086**	23904	31725	30076	31186	31816
30125	30796	29941	29498	29078	29892	**32482**	26339	29505	29727	28347	27516
42384	39961	39773	40378	38574	40084	41443	36516	38952	39101	41292	42247
51055	50608	49466	46914	47332	53964	**55883**	28245	49238	48010	51832	52159
51936	51845	48322	46695	46836	48492	51498	37761	46305	46462	46192	47100
43250	40708	40297	40651	38829	40084	41443	36788	39220	39576	43639	**45115**
52602	50834	50359	47089	47470	53964	**55883**	32026	49238	48962	55216	55196
52632	52227	48952	46924	46836	48492	51498	38917	46305	46995	49802	49642
18:00	19:00	19:00	10:00	09:00	11:00	11:00	10:00	10:00	19:00	18:00	**17:00**
18:00	19:00	19:00	10:00	10:00	11:00	**11:00**	21:00	11:00	19:00	17:00	17:00
17:00	19:00	19:00	10:00	11:00	11:00	11:00	21:00	11:00	19:00	18:00	18:00
37031	34765	34239	34938	32911	34617	35700	32843	32823	34059	37987	**39775**

Luxembourg

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	0
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	216
			2007	2885
			2008	2379
Hydraulic net generation	GWh	Σ	1998	1030
			2007	904
			2008	947
Other renewable net generation [1]	GWh	Σ	2007	151
			2008	153
- of which wind	GWh	Σ	2007	67
			2008	61
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	1271
			2007	3940
			2008	3479
Physical import	GWh	Σ	1998	6321
			2007	6845
			2008	6819
Physical export	GWh	Σ	1998	923
			2007	2886
			2008	2464
Total physical import/export balance	GWh	Σ	1998	5439
			2007	3958
			2008	4355
Consumption of pumps	GWh	Σ	1998	1272
			2007	1121
			2008	1160
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	5438
			2007	6777
			2008	6674
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	696
			2007	791
			2008	832
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	815
			2007	952
			2008	1026
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	831
			2007	1022
			2008	1052
Time of highest load on the 3rd Wednesday		CET	1998	12:00
			2007	18:00
			2008	12:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	826

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
16	17	20	19	16	17	17	13	15	20	22	24
297	256	283	161	249	239	217	171	188	254	276	294
275	249	267	181	24	23	57	255	261	283	260	244
90	71	78	89	92	93	88	93	97	89	67	83
97	77	86	74	80	65	69	70	70	69	72	75
84	76	84	82	77	76	76	73	66	76	82	95
17	12	15	12	14	9	14	12	10	10	12	14
16	14	16	10	9	11	13	13	13	13	13	12
11	6	7	3	6	4	6	4	3	3	6	8
9	6	8	3	3	3	4	4	5	5	6	5
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
108	90	100	110	110	112	107	108	115	111	91	109
411	345	384	247	343	313	300	253	268	333	360	383
375	339	367	273	110	110	146	341	340	372	355	351
564	512	546	517	517	519	528	443	551	569	531	524
607	538	604	559	569	562	564	517	550	615	590	570
614	582	605	597	634	610	634	526	528	533	487	469
74	64	68	75	83	87	85	90	92	81	55	69
296	249	277	162	242	239	224	197	205	256	257	282
269	242	258	180	72	69	101	260	247	260	251	255
490	448	477	449	440	438	448	358	464	495	476	456
311	289	326	397	327	323	340	320	345	359	333	288
345	340	347	417	562	541	533	266	281	273	236	214
102	89	94	102	111	119	117	124	126	114	78	96
112	90	100	93	102	83	85	90	91	94	92	89
98	89	94	95	99	96	101	100	88	95	97	108
496	449	483	457	439	431	438	342	453	492	489	469
610	544	610	551	568	553	555	483	522	598	601	582
622	590	620	595	573	555	578	507	533	550	494	457
677	672	631	663	527	567	525	433	566	**696**	632	610
791	716	656	745	752	693	772	522	679	763	748	755
759	829	728	**832**	700	745	714	731	643	623	548	507
742	694	**815**	765	715	727	667	592	691	774	645	684
952	903	896	893	809	849	839	600	932	889	907	845
1014	918	**1026**	842	963	958	909	866	943	848	756	724
777	737	**831**	765	743	740	697	626	755	802	807	775
991	934	912	941	830	949	865	634	946	952	**1022**	878
1041	1024	**1052**	917	999	986	911	920	947	906	775	743
09:00	20:00	**12:00**	11:00	12:00	19:00	22:00	12:00	12:00	12:00	20:00	09:00
12:00	20:00	12:00	16:00	12:00	14:00	15:00	22:00	12:00	19:00	**18:00**	19:00
19:00	20:00	**12:00**	12:00	12:00	16:00	15:00	12:00	12:00	21:00	19:00	18:00
765	706	**826**	772	724	732	681	611	701	781	662	693

Physical exchanges in interconnected operation [1]

MM_YY	LU→BE	LU→DE	UCTE_EXP	Total_EXP	BE→LU	DE→LU	UCTE_IMP	Total_IMP	LU_UCTE	LU_Total
	Export (-)				Import (+)				Balance	
I.98	0	74	74	74	178	386	564	564	490	490
II.98	0	64	64	64	161	351	512	512	448	448
III.98	0	68	68	68	175	371	546	546	478	478
IV.98	0	75	75	75	162	355	517	517	442	442
V.98	0	83	83	83	158	359	517	517	434	434
VI.98	0	87	87	87	154	365	519	519	432	432
VII.98	0	85	85	85	152	376	528	528	443	443
VIII.98	0	90	90	90	81	362	443	443	353	353
IX.98	0	92	92	92	162	389	551	551	459	459
X.98	0	81	81	81	172	397	569	569	488	488
XI.98	0	55	55	55	172	359	531	531	476	476
XII.98	0	69	69	69	144	380	524	524	455	455
1998	**0**	**923**	**923**	**923**	**1871**	**4450**	**6321**	**6321**	**5398**	**5398**
I.07	216	80	296	296	150	457	607	607	311	311
II.07	185	64	249	249	129	409	538	538	289	289
III.07	206	71	277	277	155	449	604	604	327	327
IV.07	96	66	162	162	141	418	559	559	397	397
V.07	168	74	242	242	126	443	569	569	327	327
VI.07	179	60	239	239	140	422	562	562	323	323
VII.07	162	62	224	224	140	424	564	564	340	340
VIII.07	133	64	197	197	112	405	517	517	320	320
IX.07	139	66	205	205	117	433	550	550	345	345
X.07	190	66	256	256	150	465	615	615	359	359
XI.07	191	66	257	257	143	447	590	590	333	333
XII.07	219	63	282	282	127	443	570	570	288	288
2007	**2084**	**802**	**2886**	**2886**	**1630**	**5215**	**6845**	**6845**	**3959**	**3959**
I.08	198	71	269	269	154	460	614	614	345	345
II.08	178	64	242	242	148	434	582	582	340	340
III.08	190	68	258	258	159	446	605	605	347	347
IV.08	111	69	180	180	155	442	597	597	417	417
V.08	0	72	72	72	188	446	634	634	562	562
VI.08	0	69	69	69	174	436	610	610	541	541
VII.08	28	73	101	101	177	457	634	634	533	533
VIII.08	190	70	260	260	105	421	526	526	266	266
IX.08	184	63	247	247	99	429	528	528	281	281
X.08	193	67	260	260	80	453	533	533	273	273
XI.08	181	70	251	251	52	435	487	487	236	236
XII.08	176	79	255	255	26	443	469	469	214	214
2008	**1629**	**835**	**2464**	**2464**	**1517**	**5302**	**6819**	**6819**	**4355**	**4355**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation [1]

Montenegro | GWh

MM_YY	ME→BA	ME→RS	ME→AL	UCTE_EXP	Total_EXP	BA→ME	RS→ME	AL→ME	UCTE_IMP	Total_IMP	ME_UCTE	ME_Total
	Export (-)					Import (+)					Balance	
I.98												
II.98												
III.98												
IV.98												
V.98												
VI.98												
VII.98												
VIII.98												
IX.98												
X.98												
XI.98												
XII.98												
1998												
I.07	5	27	41	32	73	177	186	1	363	364	331	291
II.07	22	32	96	54	150	148	108	0	256	256	202	106
III.07	18	38	112	56	168	191	85	0	276	276	220	108
IV.07	19	21	76	40	116	146	107	0	253	253	213	137
V.07	20	6	33	26	59	124	165	0	289	289	263	230
VI.07	4	4	38	8	46	187	175	0	362	362	354	316
VII.07	6	6	64	12	76	244	160	0	404	404	392	328
VIII.07	1	32	92	33	125	303	125	0	428	428	395	303
IX.07	2	20	65	22	87	237	124	0	361	361	339	274
X.07	7	21	57	28	85	176	122	0	298	298	270	213
XI.07	28	18	70	46	116	143	139	1	282	283	236	167
XII.07	31	28	83	59	142	200	119	0	319	319	260	177
2007	**163**	**253**	**827**	**416**	**1243**	**2276**	**1615**	**2**	**3891**	**3893**	**3475**	**2650**
I.08	26	51	81	77	158	213	96	0	309	309	232	151
II.08	25	62	91	87	178	229	82	0	311	311	224	133
III.08	29	25	88	54	142	123	137	0	260	260	206	118
IV.08	28	19	59	47	106	109	132	0	241	241	194	135
V.08	11	13	47	24	71	151	142	1	293	294	269	223
VI.08	7	36	78	43	121	197	61	0	258	258	215	137
VII.08	10	23	29	33	62	153	140	1	293	294	260	232
VIII.08	2	21	76	23	99	234	106	0	340	340	317	241
IX.08	41	66	63	107	170	189	85	0	274	274	167	104
X.08	16	33	35	49	84	148	164	3	312	315	263	231
XI.08	21	35	76	56	132	165	72	0	237	237	181	105
XII.08	23	55	83	78	161	171	72	2	243	245	165	84
2008	**239**	**439**	**806**	**678**	**1484**	**2082**	**1289**	**7**	**3371**	**3378**	**2693**	**1894**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Montenegro

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	
			2007	765
			2008	1155
Hydraulic net generation	GWh	Σ	1998	
			2007	1292
			2008	1536
Other renewable net generation [1]	GWh	Σ	2007	4
			2008	0
- of which wind	GWh	Σ	2007	0
			2008	0
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	
			2007	2061
			2008	2691
Physical import	GWh	Σ	1998	
			2007	3893
			2008	3378
Physical export	GWh	Σ	1998	
			2007	1243
			2008	1484
Total physical import/export balance	GWh	Σ	1998	
			2007	2593
			2008	1892
Consumption of pumps	GWh	Σ	1998	
			2007	0
			2008	0
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	
			2007	4654
			2008	4583
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	
			2007	551
			2008	542
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	
			2007	645
			2008	628
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	
			2007	695
			2008	715
Time of highest load on the 3rd Wednesday		CET	1998	
			2007	19:00
			2008	20:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
59	107	119	79	49	0	0	0	37	111	93	111
135	120	119	35	7	130	107	131	132	65	114	60
74	197	174	131	75	35	61	82	38	62	168	195
175	172	171	175	96	64	38	17	131	66	159	272
2	2	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
135	306	293	210	124	35	61	82	75	173	261	306
310	292	290	210	103	194	145	148	263	131	273	332
364	256	276	253	289	362	404	428	361	298	283	319
309	311	260	241	294	258	294	340	274	315	237	245
73	150	168	116	59	46	76	125	87	85	116	142
158	178	142	106	71	121	62	99	170	84	132	161
297	106	106	138	220	316	325	303	270	195	157	160
152	133	118	138	223	137	230	241	102	230	102	86
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
432	412	399	348	344	351	386	385	345	368	418	466
462	425	408	348	326	331	375	389	365	361	375	418
500	462	423	403	383	406	431	426	396	408	492	**551**
519	**542**	455	389	361	366	402	424	391	409	433	438
603	526	492	494	472	513	544	521	495	508	587	**645**
628	623	591	462	462	469	520	535	509	484	528	542
644	598	612	557	523	564	591	601	543	580	654	**695**
670	**715**	651	561	501	524	563	617	565	556	620	606
19:00	19:00	20:00	21:00	22:00	22:00	21:00	21:00	21:00	21:00	19:00	**19:00**
18:00	**20:00**	20:00	22:00	21:00	22:00	22:00	21:00	21:00	21:00	19:00	20:00

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	n.a.
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	n.a.
			2007	5016
			2008	4982
Hydraulic net generation	GWh	Σ	1998	n.a.
			2007	1054
			2008	881
Other renewable net generation [1]	GWh	Σ	2007	0
			2008	0
- of which wind	GWh	Σ	2007	0
			2008	0
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007	6070
			2008	5863
Physical import	GWh	Σ	1998	n.a.
			2007	3388
			2008	3920
Physical export	GWh	Σ	1998	n.a.
			2007	905
			2008	1203
Total physical import/export balance	GWh	Σ	1998	n.a.
			2007	2496
			2008	2780
Consumption of pumps	GWh	Σ	1998	n.a.
			2007	0
			2008	0
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007	8566
			2008	8643
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	1080
			2008	1006
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	1386
			2008	1285
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	1556
			2008	1431
Time of highest load on the 3rd Wednesday		CET	1998	n.a.
			2007	18:00
			2008	18:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	n.a.

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
586	509	495	410	326	207	352	356	305	447	486	537
566	483	499	417	285	298	341	346	349	442	476	480
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
106	81	94	102	64	85	69	52	91	60	93	157
115	93	85	84	95	41	51	48	77	57	60	75
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
692	590	589	512	390	292	421	408	396	507	579	694
681	576	584	501	380	339	392	394	426	499	536	555
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
172	212	314	232	267	379	328	335	243	254	297	355
307	303	320	289	334	374	385	369	291	212	295	441
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
34	70	126	80	74	83	115	118	46	51	32	76
55	84	143	103	79	102	117	105	55	37	121	202
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
138	143	189	153	199	298	214	219	197	203	265	278
261	215	177	192	253	282	281	272	235	185	169	258
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
830	733	778	665	589	590	635	627	593	710	844	972
942	791	761	693	633	621	673	666	661	684	705	813
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
905	870	780	758	623	696	753	712	675	787	969	**1080**
1006	954	862	768	666	690	750	691	694	723	783	810
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1188	1056	1041	964	802	927	951	871	830	1014	1256	**1386**
1285	1198	1273	996	882	909	956	958	853	919	1043	1088
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1320	1227	1258	1133	949	1008	1025	985	1021	1243	1430	**1556**
1431	1371	1369	1162	994	1021	1012	1091	1067	1143	1278	1241
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
19:00	19:00	19:00	21:00	22:00	22:00	22:00	21:00	20:00	21:00	18:00	**18:00**
18:00	19:00	20:00	21:00	21:00	22:00	22:00	21:00	21:00	20:00	18:00	18:00
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Physical exchanges in interconnected operation [1]

MM_YY	MK→BG	MK→GR	MK→RS	YUGO→GR	UCTE_EXP	Total_EXP	BG→MK	GR→MK	RS→MK	GR→YUGO	UCTE_IMP	Total_IMP	MK_UCTE	MK_Total
	Export (-)						Import (+)						Balance	
I.98				102	102	n.a.				0	0	n.a.	-102	n.a.
II.98				61	61	n.a.				1	1	n.a.	-60	n.a.
III.98				116	116	n.a.				0	0	n.a.	-116	n.a.
IV.98				151	151	n.a.				1	1	n.a.	-150	n.a.
V.98				122	122	n.a.				1	1	n.a.	-121	n.a.
VI.98				146	146	n.a.				0	0	n.a.	-146	n.a.
VII.98				173	173	n.a.				0	0	n.a.	-173	n.a.
VIII.98				218	218	n.a.				0	0	n.a.	-218	n.a.
IX.98				180	180	n.a.				0	0	n.a.	-180	n.a.
X.98				77	77	n.a.				1	1	n.a.	-76	n.a.
XI.98				32	32	n.a.				1	1	n.a.	-31	n.a.
XII.98				34	34	n.a.				18	18	n.a.	-16	n.a.
1998				**1412**	**1412**	**n.a.**				**23**	**23**	**n.a.**	**-1389**	**n.a.**
I.07	0	34	0		34	34	50	15	107		172	172	138	138
II.07	0	70	0		70	70	57	3	152		212	212	142	142
III.07	0	126	0		126	126	78	0	236		314	314	188	188
IV.07	0	80	0		80	80	70	0	162		232	232	152	152
V.07	1	73	1		75	75	47	0	220		267	267	192	192
VI.07	0	83	0		83	83	78	0	301		379	379	296	296
VII.07	0	115	0		115	115	68	0	260		328	328	213	213
VIII.07	0	118	0		118	118	70	1	264		335	335	217	217
IX.07	0	46	0		46	46	74	21	148		243	243	197	197
X.07	0	51	0		51	51	66	30	158		254	254	203	203
XI.07	0	32	0		32	32	70	25	202		297	297	265	265
XII.07	0	76	0		76	76	81	16	258		355	355	279	279
2007	**1**	**904**	**1**		**906**	**906**	**809**	**111**	**2468**		**3388**	**3388**	**2482**	**2482**
I.08	0	55	0		55	55	63	18	226		307	307	252	252
II.08	0	84	0		84	84	62	7	234		303	303	219	219
III.08	0	143	0		143	143	78	7	235		320	320	177	177
IV.08	0	103	0		103	103	80	3	206		289	289	186	186
V.08	0	78	1		79	79	85	5	244		334	334	255	255
VI.08	0	102	0		102	102	82	2	290		374	374	272	272
VII.08	0	117	0		117	117	78	3	304		385	385	268	268
VIII.08	0	105	0		105	105	75	2	292		369	369	264	264
IX.08	0	55	0		55	55	72	16	203		291	291	236	236
X.08	0	37	0		37	37	67	30	115		212	212	175	175
XI.08	0	121	0		121	121	99	2	194		295	295	174	174
XII.08	0	189	13		202	202	301	0	140		441	441	239	239
2008	**0**	**1189**	**14**		**1203**	**1203**	**1142**	**95**	**2683**		**3920**	**3920**	**2717**	**2717**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation [1]

The Netherlands | GWh

MM_YY	NL→BE	NL→DE	NL→NO	UCTE_EXP	Total_EXP	BE→NL	DE→NL	NO→NL	UCTE_IMP	Total_IMP	NL_UCTE	NL_Total
	Export (-)					Import (+)					Balance	
I.98	240	136		376	376	400	1044		1444	1444	1068	1068
II.98	255	116		371	371	310	978		1288	1288	917	917
III.98	280	99		379	379	204	1165		1369	1369	990	990
IV.98	346	107		453	453	261	1145		1406	1406	953	953
V.98	277	193		470	470	283	1121		1404	1404	934	934
VI.98	166	307		473	473	350	1226		1576	1576	1103	1103
VII.98	172	200		372	372	341	1145		1486	1486	1114	1114
VIII.98	224	74		298	298	270	1121		1391	1391	1093	1093
IX.98	260	62		322	322	150	1186		1336	1336	1014	1014
X.98	262	67		329	329	172	1223		1395	1395	1066	1066
XI.98	348	48		396	396	172	1140		1312	1312	916	916
XII.98	386	84		470	470	211	1127		1338	1338	868	868
1998	**3216**	**1493**		**4709**	**4709**	**3124**	**13621**		**16745**	**16745**	**12036**	**12036**
I.07	738	7		745	745	71	1878		1949	1949	1204	1204
II.07	270	24		294	294	346	1040		1386	1386	1092	1092
III.07	533	2		535	535	180	1810		1990	1990	1455	1455
IV.07	317	1		318	318	412	1730		2142	2142	1824	1824
V.07	68	4		72	72	717	1384		2101	2101	2029	2029
VI.07	45	22		67	67	1087	958		2045	2045	1978	1978
VII.07	219	38		257	257	597	1487		2084	2084	1827	1827
VIII.07	69	98		167	167	993	1080		2073	2073	1906	1906
IX.07	297	40		337	337	395	1556		1951	1951	1614	1614
X.07	533	63		596	596	223	1199		1422	1422	826	826
XI.07	1152	0		1152	1152	54	1806		1860	1860	708	708
XII.07	1027	1		1028	1028	12	2135		2147	2147	1119	1119
2007	**5268**	**300**		**5568**	**5568**	**5087**	**18063**		**23150**	**23150**	**17582**	**17582**
I.08	1010	1	0	1011	1011	53	2222	0	2275	2275	1264	1264
II.08	793	30	0	823	823	71	1811	0	1882	1882	1059	1059
III.08	1545	0	0	1545	1545	5	2452	0	2457	2457	912	912
IV.08	1210	1	0	1211	1211	62	2020	0	2082	2082	871	871
V.08	564	29	0	593	593	235	1642	501	1877	2378	1284	1785
VI.08	273	74	3	347	350	540	1244	482	1784	2266	1437	1916
VII.08	286	44	12	330	342	485	1235	411	1720	2131	1390	1789
VIII.08	139	152	48	291	339	898	1094	341	1992	2333	1701	1994
IX.08	396	131	62	527	589	247	1316	318	1563	1881	1036	1292
X.08	819	232	43	1051	1094	96	1074	394	1170	1564	119	470
XI.08	611	92	86	703	789	99	1289	351	1388	1739	685	950
XII.08	475	43	78	518	596	217	1460	358	1677	2035	1159	1439
2008	**8121**	**829**	**332**	**8950**	**9282**	**3008**	**18859**	**3156**	**21867**	**25023**	**12917**	**15741**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

The Netherlands

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	3592
			2007	3993
			2008	3933
Fossil fuels net generation	GWh	Σ	1998	57425
			2007	88628
			2008	91451
Hydraulic net generation	GWh	Σ	1998	0
			2007	97
			2008	102
Other renewable net generation [1]	GWh	Σ	2007	6618
			2008	8866
- of which wind	GWh	Σ	2007	3435
			2008	4250
Non-identifiable net generation [1]	GWh	Σ	2007	10
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998 [2]	87550
			2007 [2]	99346
			2008 [2]	104352
Physical import	GWh	Σ	1998	16745
			2007	23150
			2008	25023
Physical export	GWh	Σ	1998	4709
			2007	5568
			2008	9282
Total physical import/export balance	GWh	Σ	1998	12036
			2007	17609
			2008	15842
Consumption of pumps	GWh	Σ	1998	0
			2007	0
			2008	0
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	99586
			2007	116955
			2008	120194
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	8426
			2007	11180
			2008	11300
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	15245
			2007	17126
			2008	17191
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	15680
			2007	17840
			2008	17712
Time of highest load on the 3rd Wednesday		CET	1998	17:00
			2007	18:00
			2008	18:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	9888

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
315	305	337	323	321	94	238	335	325	338	327	334
361	326	361	348	357	341	352	334	148	356	348	361
362	338	361	125	275	345	354	353	345	361	351	363
5157	4593	4863	4539	4600	4718	4628	4392	4836	4906	5092	5101
8419	7780	7943	6618	6399	6465	6455	6449	6985	8369	8367	8379
8424	7759	8511	7820	6939	6658	6589	6326	7204	8504	8288	8429
0	0	0	0	0	0	0	0	0	0	0	0
9	11	10	11	8	0	12	9	8	5	9	5
9	10	4	7	9	10	8	6	5	8	12	14
741	463	655	365	504	424	585	484	576	438	675	708
1072	790	938	586	524	500	609	733	705	916	922	571
549	262	382	178	253	166	285	191	273	145	345	406
622	363	510	261	232	220	258	336	267	389	455	337
0	0	0	0	0	10	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
7706	6898	7646	7046	7029	6777	6951	6656	7167	7711	7852	8111
9530	8580	8969	7342	7268	7240	7404	7276	7717	9168	9399	9453
9867	8897	9814	8538	7747	7513	7560	7418	8259	9789	9573	9377
1444	1288	1369	1406	1404	1576	1486	1391	1336	1395	1312	1338
1949	1386	1990	2142	2101	2045	2084	2073	1951	1422	1860	2147
2275	1882	2457	2082	2378	2266	2131	2333	1881	1564	1739	2035
376	371	379	453	470	473	372	298	322	329	396	470
745	294	535	318	72	67	257	167	337	596	1152	1028
1011	823	1545	1211	593	350	342	339	589	1094	789	596
1068	917	990	953	934	1103	1114	1093	1014	1066	916	868
1203	1091	1454	1822	2028	1978	1827	1941	1613	826	707	1119
1263	1058	909	881	1784	1916	1790	1993	1292	569	950	1437
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
8774	7815	8636	7999	7963	7880	8065	7749	8181	8777	8768	8979
10733	9671	10423	9164	9296	9218	9231	9217	9330	9994	10106	10572
11130	9955	10723	9419	9531	9429	9350	9411	9551	10358	10523	10814
7139	7069	7873	7762	8062	7856	8025	8150	**8426**	7706	7961	7865
10579	10388	10629	10006	10275	9840	10068	8958	9308	9927	10179	**11180**
11300	10748	10919	10765	10299	10076	9834	10446	9902	9810	10207	10547
14311	13506	14740	15068	14302	14388	14577	14093	14644	14976	**15245**	15049
17126	16104	15849	14643	14842	14235	13183	13168	13309	14726	15712	16526
17191	15945	16230	15483	15102	14624	14817	15422	14613	15045	15956	16294
14416	13601	14777	15096	14302	14560	14690	14169	14721	14976	15593	**15680**
17840	16105	15903	15191	14857	14624	13571	13298	13309	14744	15817	16614
17314	16070	16324	15612	15236	15479	15104	15798	14650	15337	**17712**	16915
18:00	10:00	10:00	12:00	11:00	12:00	12:00	12:00	12:00	11:00	18:00	**17:00**
18:00	12:00	12:00	16:00	10:00	17:00	15:00	14:00	11:00	10:00	18:00	10:00
18:00	10:00	12:00	14:00	15:00	14:00	14:00	14:00	12:00	20:00	**18:00**	18:00
8972	8290	8366	9296	8524	8273	8831	8326	9212	8829	9787	**9888**

[2] including deliveries from industry

Poland

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	0
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	138421
			2007 [3]	145128
			2008 [3]	140812
Hydraulic net generation	GWh	Σ	1998	4203
			2007	2684
			2008	2668
Other renewable net generation [1]	GWh	Σ	2007 [4]	622
			2008 [4]	948
- of which wind	GWh	Σ	2007	506
			2008	796
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998 [2]	142624
			2007 [2]	148434
			2008 [2]	144428
Physical import	GWh	Σ	1998	3929
			2007	7752
			2008	9021
Physical export	GWh	Σ	1998	8081
			2007	13107
			2008	9704
Total physical import/export balance	GWh	Σ	1998	-3474
			2007	-5358
			2008	-685
Consumption of pumps	GWh	Σ	1998	2806
			2007	870
			2008	891
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	136344
			2007	142206
			2008	142852
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	15377
			2008	15059
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	21106
			2008	20160
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	22601
			2008	21901
Time of highest load on the 3rd Wednesday		CET	1998	n.a.
			2007	17:00
			2008	18:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	n.a.

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
13266	11893	12501	10684	10092	9480	9842	9887	10806	12521	13305	14144
13175	12253	12277	10985	11117	10839	11033	11261	11722	13311	13319	13836
13390	12099	12161	11501	10720	10927	11051	11023	11373	12129	11899	12539
409	363	400	364	354	341	330	253	296	364	372	357
249	286	315	198	156	168	146	148	230	232	262	294
241	236	294	269	247	166	202	195	175	228	188	227
73	46	48	44	29	31	41	42	52	44	102	70
112	100	94	47	39	55	46	62	48	113	138	94
65	37	39	36	21	22	32	31	41	31	92	59
102	89	81	35	27	43	34	48	34	99	124	80
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
13675	12256	12901	11048	10446	9821	10172	10140	11102	12885	13677	14501
13497	12585	12640	11227	11302	11038	11220	11451	12004	13587	13683	14200
13743	12435	12549	11817	11006	11148	11299	11280	11596	12470	12225	12860
465	479	492	358	354	231	291	335	203	261	246	214
846	629	929	767	768	567	748	616	494	455	487	446
1007	962	951	699	642	513	774	560	636	868	787	622
737	765	613	499	577	444	524	500	782	824	847	969
1331	1301	1160	949	928	744	965	807	1117	1275	1289	1241
1195	1093	884	691	588	634	781	612	597	861	865	903
-215	-235	-72	-77	-165	-157	-174	-116	-518	-505	-545	-695
-487	-673	-232	-182	-159	-176	-218	-191	-623	-821	-801	-795
-189	-131	66	8	56	-121	-10	-52	40	6	-78	-280
262	222	230	172	211	235	209	190	262	268	265	280
61	49	34	29	35	80	63	68	93	110	110	138
102	65	69	47	61	74	58	79	90	97	76	73
13198	11799	12599	10799	10070	9429	9789	9834	10322	12112	12867	13526
12949	11863	12374	11016	11108	10782	10939	11192	11288	12656	12772	13267
13452	12239	12546	11778	11001	10953	11231	11149	11546	12379	12071	12507
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
14350	14784	14154	13047	12735	13079	13211	12252	13255	14174	**15377**	15360
14870	15020	**15059**	13901	13047	13147	12655	13092	13588	13639	14195	13936
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
19415	19411	19159	17684	17528	17520	17602	13507	17887	18766	20260	**21106**
20100	**20160**	20019	19058	17886	17828	17300	17898	18836	18657	19518	19605
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
21169	20929	20539	18803	17793	17829	17903	14425	19596	20551	21999	**22601**
21901	21347	21664	19903	18143	18261	17763	18326	19891	20307	21383	21190
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
17:00	20:00	20:00	21:00	13:00	14:00	12:00	22:00	20:00	20:00	18:00	**17:00**
18:00	19:00	20:00	21:00	13:00	13:00	13:00	13:00	20:00	20:00	18:00	17:00
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

[2] including deliveries from industry
[3] Energy from co-firing (biomass combustion in lignite/hard coal power stations) is classified as energy from fossil fuels installation.
[4] Only energy from 100% renewable installation (e.g. wind farms, biogas) is classified as energy from renwable (co-firing is not included).

Physical exchanges in interconnected operation [1]

Poland | GWh

MM_YY	PL→CZ	PL→DE	PL→SK	PL→BY	PL→SE	PL→UA	UCTE_EXP	Total_EXP	CZ→PL	DE→PL	SK→PL	BY→PL	SE→PL	UA→PL	UCTE_IMP	Total_IMP	PL_UCTE	PL_Total
	Export (-)								Import (+)								Balance	
I.98	680	57	0			0	57	737	7	369	0			89	369	465	312	-272
II.98	673	92	0			0	92	765	10	387	0			82	387	479	295	-286
III.98	549	64	0			0	64	613	21	378	0			93	378	492	314	-121
IV.98	476	23	0			0	23	499	10	293	0			55	293	358	270	-141
V.98	557	20	0			0	20	577	10	287	0			57	287	354	267	-223
VI.98	420	24	0			0	24	444	0	178	0			53	178	231	154	-213
VII.98	512	12	0			0	12	524	3	233	0			55	233	291	221	-233
VIII.98	484	5	11			0	5	500	7	268	0			60	268	335	263	-165
IX.98	598	65	119			0	65	782	3	174	1			25	174	203	109	-579
X.98	654	22	148			0	22	824	7	191	0			63	191	261	169	-563
XI.98	695	46	106			0	46	847	18	146	1			81	146	246	100	-601
XII.98	780	73	116			0	73	969	10	115	0			89	115	214	42	-755
1998	**7078**	**503**	**500**			**0**	**503**	**8081**	**106**	**3019**	**2**			**802**	**3019**	**3929**	**2516**	**-4152**
I.07	927	0	385	0	19	0	1312	1331	1	565	0	0	193	87	566	846	-746	-485
II.07	885	1	371	0	44	0	1257	1301	0	462	0	0	89	78	462	629	-795	-672
III.07	845	0	315	0	0	0	1160	1160	0	504	0	0	341	84	504	929	-656	-231
IV.07	647	6	296	0	0	0	949	949	2	351	0	0	357	57	353	767	-596	-182
V.07	678	11	239	0	0	0	928	928	2	301	0	0	396	69	303	768	-625	-160
VI.07	514	10	213	0	7	0	737	744	1	313	0	0	191	62	314	567	-423	-177
VII.07	725	3	235	0	2	0	963	965	0	421	0	0	258	69	421	748	-542	-217
VIII.07	604	2	194	0	7	0	800	807	0	341	0	0	207	68	341	616	-459	-191
IX.07	758	7	345	0	7	0	1110	1117	0	280	0	0	156	58	280	494	-830	-623
X.07	913	3	296	0	63	0	1212	1275	13	429	0	0	13	0	442	455	-770	-820
XI.07	845	1	383	0	60	0	1229	1289	0	483	0	0	4	0	483	487	-746	-802
XII.07	889	4	327	0	21	0	1220	1241	1	441	0	0	4	0	442	446	-778	-795
2007	**9230**	**48**	**3599**	**0**	**0**	**0**	**12877**	**13107**	**20**	**4891**	**0**	**0**	**2209**	**632**	**4911**	**7752**	**-7966**	**-5355**
I.08	865	0	330	0	0	0	1195	1195	1	799	0	0	207	0	800	1007	-395	-188
II.08	776	0	317	0	0	0	1093	1093	0	687	0	0	275	0	687	962	-406	-131
III.08	651	1	232	0	0	0	884	884	2	608	0	0	341	0	610	951	-274	67
IV.08	527	3	155	0	6	0	685	691	4	359	0	0	283	53	363	699	-322	8
V.08	459	35	92	0	2	0	586	588	9	249	3	61	226	94	261	642	-325	54
VI.08	518	32	71	0	13	0	621	634	4	260	8	67	79	95	272	513	-349	-121
VII.08	713	2	57	0	9	0	772	781	1	409	2	73	182	107	412	774	-360	-7
VIII.08	546	12	42	0	12	0	600	612	4	290	18	31	89	128	312	560	-288	-52
IX.08	311	10	258	0	18	0	579	597	0	323	0	57	132	124	323	636	-256	39
X.08	384	0	460	0	17	0	844	861	0	569	0	88	106	105	569	868	-275	7
XI.08	487	0	357	0	21	0	844	865	0	559	0	85	83	60	559	787	-285	-78
XII.08	672	1	181	0	49	0	854	903	1	466	0	92	63	0	467	622	-387	-281
2008	**6909**	**96**	**2552**	**0**	**147**	**0**	**9557**	**9704**	**26**	**5578**	**31**	**554**	**2066**	**766**	**5635**	**9021**	**-3922**	**-683**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation [1]

Portugal | GWh

MM_YY	PT→ES	UCTE_EXP	Total_EXP	ES→PT	UCTE_IMP	Total_IMP	PT_UCTE	PT_Total
	Export (-)			Import (+)			Balance	
I.98	279	279	279	275	275	275	-4	-4
II.98	230	230	230	212	212	212	-18	-18
III.98	251	251	251	242	242	242	-9	-9
IV.98	266	266	266	265	265	265	-1	-1
V.98	348	348	348	343	343	343	-5	-5
VI.98	284	284	284	277	277	277	-7	-7
VII.98	381	381	381	365	365	365	-16	-16
VIII.98	313	313	313	301	301	301	-12	-12
IX.98	278	278	278	425	425	425	147	147
X.98	366	366	366	359	359	359	-7	-7
XI.98	379	379	379	372	372	372	-7	-7
XII.98	344	344	344	453	453	453	109	109
1998	**3719**	**3719**	**3719**	**3889**	**3889**	**3889**	**170**	**170**
I.07	455	455	455	687	687	687	232	232
II.07	357	357	357	784	784	784	427	427
III.07	345	345	345	831	831	831	486	486
IV.07	104	104	104	694	694	694	590	590
V.07	155	155	155	748	748	748	593	593
VI.07	113	113	113	609	609	609	496	496
VII.07	151	151	151	738	738	738	587	587
VIII.07	150	150	150	847	847	847	697	697
IX.07	86	86	86	918	918	918	832	832
X.07	32	32	32	908	908	908	876	876
XI.07	111	111	111	859	859	859	748	748
XII.07	95	95	95	860	860	860	765	765
2007	**2154**	**2154**	**2154**	**9483**	**9483**	**9483**	**7329**	**7329**
I.08	181	181	181	878	878	878	697	697
II.08	82	82	82	845	845	845	763	763
III.08	38	38	38	1066	1066	1066	1028	1028
IV.08	61	61	61	948	948	948	887	887
V.08	80	80	80	850	850	850	770	770
VI.08	87	87	87	863	863	863	776	776
VII.08	81	81	81	795	795	795	714	714
VIII.08	104	104	104	697	697	697	593	593
IX.08	118	118	118	746	746	746	628	628
X.08	64	64	64	822	822	822	758	758
XI.08	168	168	168	1032	1032	1032	864	864
XII.08	251	251	251	1055	1055	1055	804	804
2008	**1315**	**1315**	**1315**	**10597**	**10597**	**10597**	**9282**	**9282**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Portugal

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	0
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	20806
			2007	26822
			2008	27344
Hydraulic net generation	GWh	Σ	1998	12833
			2007	10218
			2008	7100
Other renewable net generation [1]	GWh	Σ	2007	6068
			2008	7358
- of which wind	GWh	Σ	2007	4011
			2008	5696
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998 [2]	36552
			2007 [2]	44636
			2008 [2]	43387
Physical import	GWh	Σ	1998	3889
			2007	9483
			2008	10597
Physical export	GWh	Σ	1998	3719
			2007	2154
			2008	1315
Total physical import/export balance	GWh	Σ	1998	276
			2007	7488
			2008	9430
Consumption of pumps	GWh	Σ	1998	101
			2007	540
			2008	640
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	36727
			2007	51584
			2008	52177
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	3328
			2007	5849
			2008	5691
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	5870
			2007	8287
			2008	7954
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	6347
			2007	9132
			2008	8857
Time of highest load on the 3rd Wednesday		CET	1998	19:00
			2007	20:00
			2008	21:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	4900

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
698	941	1737	1302	1398	1391	2316	2118	1878	2251	2172	2604
2934	1765	1613	2079	1988	2118	2400	2144	2237	2187	2443	2914
2891	2464	2184	1536	1796	1906	2561	2336	2515	2358	2462	2335
2333	1679	1054	1378	1295	1305	666	556	783	580	690	514
1196	1468	1618	810	981	818	720	512	487	646	536	426
663	424	342	950	982	865	577	403	461	415	305	713
422	560	620	404	480	462	511	566	440	452	557	594
557	601	770	709	486	475	518	593	409	619	717	904
249	393	434	233	321	291	348	383	281	269	388	421
418	481	622	561	336	334	368	448	282	506	584	756
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
3293	2847	3033	2912	2926	2929	3240	2906	2892	3076	3110	3388
4706	3926	3991	3402	3576	3509	3757	3335	3282	3400	3665	4087
4263	3619	3435	3329	3379	3368	3791	3455	3517	3516	3614	4101
275	212	242	265	343	277	365	301	425	359	372	453
687	784	831	694	748	609	738	847	918	908	859	860
878	845	1066	948	850	863	795	697	746	822	1032	1055
279	230	251	266	348	284	381	313	278	366	379	344
455	357	345	104	155	113	151	150	86	32	111	95
181	82	38	61	80	87	81	104	118	64	168	251
6	-6	-3	1	-9	8	0	0	157	1	3	118
250	441	499	602	605	508	601	712	843	887	759	781
714	776	1041	898	774	784	729	606	641	770	877	820
13	6	0	4	0	0	3	1	16	2	2	54
40	59	61	26	41	21	51	33	28	62	75	43
106	93	56	38	36	50	44	32	26	48	50	61
3286	2835	3030	2909	2917	2937	3237	2905	3033	3075	3111	3452
4916	4308	4429	3978	4140	3996	4307	4014	4097	4225	4349	4825
4871	4302	4420	4189	4117	4102	4476	4029	4132	4238	4441	4860
2837	2865	2900	2813	2921	3078	3263	2757	3142	2958	3047	**3328**
5310	4830	4975	4624	4638	4616	4902	4505	4768	4679	5139	**5849**
5516	5141	4986	4743	4724	4875	5095	4431	4747	4583	5095	**5691**
5466	5133	5042	5321	5118	5213	5523	4388	5385	5222	5401	**5870**
7697	7529	7128	6747	6737	6743	6801	4776	6880	6810	7342	**8287**
7644	7420	7278	6772	6884	6901	7204	5755	6814	6602	7225	**7954**
5681	5360	5258	5407	5166	5373	5605	4501	5485	5464	5816	**6347**
8363	8224	7846	6906	6988	7004	7136	5547	7101	7370	8107	**9132**
8381	7920	7798	7319	7097	7189	7657	6386	6970	7271	7967	**8857**
19:00	19:00	20:00	12:00	12:00	15:00	16:00	12:00	12:00	20:00	19:00	**19:00**
20:00	21:00	21:00	22:00	13:00	13:00	13:00	22:00	16:00	21:00	20:00	**20:00**
20:00	21:00	21:00	22:00	13:00	13:00	13:00	22:00	13:00	21:00	20:00	**21:00**
4900	4599	4474	4618	4583	4626	4867	3808	4230	4706	4815	4635

[2] including deliveries from industry

Romania

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	n.a.
			2007	7053
			2008	10329
Fossil fuels net generation	GWh	Σ	1998	n.a.
			2007	33692
			2008	32636
Hydraulic net generation	GWh	Σ	1998	n.a.
			2007	15622
			2008	16794
Other renewable net generation [1]	GWh	Σ	2007	0
			2008	11
- of which wind	GWh	Σ	2007	0
			2008	11
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007	56367
			2008	59770
Physical import	GWh	Σ	1998	n.a.
			2007	3965
			2008	2609
Physical export	GWh	Σ	1998	n.a.
			2007	6051
			2008	7042
Total physical import/export balance	GWh	Σ	1998	n.a.
			2007	-2098
			2008	-4434
Consumption of pumps	GWh	Σ	1998	n.a.
			2007	150
			2008	119
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007	54119
			2008	55217
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	6512
			2008	6268
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	8179
			2008	7862
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	8681
			2008	8439
Time of highest load on the 3rd Wednesday		CET	1998	n.a.
			2007	18:00
			2008	18:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	n.a.

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
489	442	488	474	478	463	473	502	639	766	870	969
962	865	968	852	618	445	885	942	926	973	920	973
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3612	3208	3088	2293	2342	2602	2982	2642	2419	2684	2833	2987
3290	3168	2771	2215	2193	2332	2547	2504	2755	2892	3113	2856
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
933	1141	1460	1298	1462	1322	1237	1072	1236	1417	1556	1488
1427	1352	1558	1734	1905	1777	1471	1350	923	1100	935	1262
0	0	0	0	0	0	0	0	0	0	0	0
0	1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0
0	1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5034	4791	5036	4065	4282	4387	4692	4216	4294	4867	5259	5444
5679	5386	5298	4802	4717	4555	4904	4797	4605	4966	4969	5092
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
332	260	337	354	261	270	355	508	372	334	243	339
316	295	186	129	178	247	214	253	219	174	167	231
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0	n.a.	n.a.	n.a.
627	629	706	324	245	400	499	366	480	539	575	661
820	875	682	513	470	495	582	551	431	500	506	617
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-296	-370	-370	28	15	-131	-144	141	-109	-206	-333	-323
-505	-580	-496	-383	-292	-249	-367	-299	-212	-326	-340	-385
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	4	7	15	25	15	7	15	21	15	14	8
5	4	6	21	23	12	9	5	4	7	4	19
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4734	4417	4659	4078	4272	4241	4541	4342	4164	4646	4912	5113
5169	4802	4796	4398	4402	4294	4528	4493	4389	4633	4625	4688
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5771	**6512**	5812	5278	5069	5342	5605	5015	5097	5604	5922	6428
6268	6169	5694	5542	5280	5319	5456	5238	5176	5374	5561	5408
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7218	6873	6362	6270	6430	6774	7175	6117	6304	6782	7428	**8179**
7862	7722	7055	7068	6461	6770	6804	6632	6679	6563	7246	7066
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7619	7589	6739	6593	6672	6846	7290	6436	7008	7475	8025	**8681**
8439	8235	7826	7367	6690	6842	6982	7030	7364	7392	7872	7810
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
20:00	20:00	20:00	22:00	13:00	13:00	14:00	21:00	20:00	20:00	18:00	**18:00**
18:00	19:00	20:00	21:00	21:00	13:00	14:00	21:00	20:00	20:00	18:00	18:00
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Physical exchanges in interconnected operation [1]

Romania | GWh

MM_YY	RO→BG	RO→HU	RO→RS	RO→YUGO	RO→UA_W	RO→MD	UCTE_EXP	Total_EXP	BG→RO	HU→RO	RS→RO	YUGO→RO	UA_W→RO	MD→RO	UCTE_IMP	Total_IMP	RO_UCTE	RO_Total
	Export (-)								Import (+)								Balance	
I.98	n.a.	n.a.		75	n.a.	n.a.	75	n.a.	n.a.	n.a.		6	n.a.	n.a.	6	n.a.	-69	n.a.
II.98	n.a.	n.a.		38	n.a.	n.a.	38	n.a.	n.a.	n.a.		7	n.a.	n.a.	7	n.a.	-31	n.a.
III.98	n.a.	n.a.		20	n.a.	n.a.	20	n.a.	n.a.	n.a.		17	n.a.	n.a.	17	n.a.	-3	n.a.
IV.98	n.a.	n.a.		4	n.a.	n.a.	4	n.a.	n.a.	n.a.		73	n.a.	n.a.	73	n.a.	69	n.a.
V.98	n.a.	n.a.		1	n.a.	n.a.	1	n.a.	n.a.	n.a.		120	n.a.	n.a.	120	n.a.	119	n.a.
VI.98	n.a.	n.a.		2	n.a.	n.a.	2	n.a.	n.a.	n.a.		84	n.a.	n.a.	84	n.a.	82	n.a.
VII.98	n.a.	n.a.		1	n.a.	n.a.	1	n.a.	n.a.	n.a.		117	n.a.	n.a.	117	n.a.	116	n.a.
VIII.98	n.a.	n.a.		3	n.a.	n.a.	3	n.a.	n.a.	n.a.		71	n.a.	n.a.	71	n.a.	68	n.a.
IX.98	n.a.	n.a.		3	n.a.	n.a.	3	n.a.	n.a.	n.a.		77	n.a.	n.a.	77	n.a.	74	n.a.
X.98	n.a.	n.a.		18	n.a.	n.a.	18	n.a.	n.a.	n.a.		39	n.a.	n.a.	39	n.a.	21	n.a.
XI.98	n.a.	n.a.		2	n.a.	n.a.	2	n.a.	n.a.	n.a.		64	n.a.	n.a.	64	n.a.	62	n.a.
XII.98	n.a.	n.a.		89	n.a.	n.a.	89	n.a.	n.a.	n.a.		10	n.a.	n.a.	10	n.a.	-79	n.a.
1998	**n.a.**	**n.a.**		**256**	**n.a.**	**n.a.**	**256**	**n.a.**	**n.a.**	**n.a.**		**685**	**n.a.**	**n.a.**	**685**	**n.a.**	**429**	**n.a.**
I.07	338	5	284		0	0	627	627	0	49	0		283	0	49	332	-578	-295
II.07	374	2	253		0	0	629	629	1	24	0		235	0	25	260	-604	-369
III.07	426	0	280		0	0	706	706	0	61	0		276	0	61	337	-645	-369
IV.07	116	3	205		0	0	324	324	4	70	0		280	0	74	354	-250	30
V.07	88	29	128		0	0	245	245	11	23	1		226	0	35	261	-210	16
VI.07	179	46	175		0	0	400	400	71	7	1		191	0	79	270	-321	-130
VII.07	285	15	199		0	0	499	499	123	5	1		190	36	129	355	-370	-144
VIII.07	218	2	146		0	0	366	366	85	75	8		281	59	168	508	-198	142
IX.07	218	26	236		0	0	480	480	51	18	0		249	54	69	372	-411	-108
X.07	233	35	271		0	0	539	539	63	24	0		185	62	87	334	-452	-205
XI.07	241	54	280		0	0	575	575	3	6	0		197	37	9	243	-566	-332
XII.07	341	33	287		0	0	661	661	0	18	0		255	66	18	339	-643	-322
2007	**3057**	**250**	**2744**		**0**	**0**	**6051**	**6051**	**412**	**380**	**11**		**2848**	**314**	**803**	**3965**	**-5248**	**-2086**
I.08	467	29	324		0	0	820	820	0	12	0		246	58	12	316	-808	-504
II.08	544	18	313		0	0	875	875	0	17	0		226	52	17	295	-858	-580
III.08	318	47	317		0	0	682	682	0	4	0		132	50	4	186	-678	-496
IV.08	141	136	235		1	0	512	513	11	0	0		73	45	11	129	-501	-384
V.08	118	126	226		0	0	470	470	31	0	0		107	40	31	178	-439	-292
VI.08	212	92	189		2	0	493	495	103	1	0		69	74	104	247	-389	-248
VII.08	226	101	254		1	0	581	582	53	0	0		73	88	53	214	-528	-368
VIII.08	284	27	240		0	0	551	551	25	16	9		121	82	50	253	-501	-298
IX.08	191	23	216		1	0	430	431	40	27	0		70	82	67	219	-363	-212
X.08	175	44	279		2	0	498	500	1	5	0		111	57	6	174	-492	-326
XI.08	127	46	328		5	0	501	506	24	8	1		94	40	33	167	-468	-339
XII.08	292	31	294		0	0	617	617	0	14	0		112	105	14	231	-603	-386
2008	**3095**	**720**	**3215**		**12**	**0**	**7030**	**7042**	**288**	**104**	**10**		**1434**	**773**	**402**	**2609**	**-6628**	**-4433**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation [1]

Serbia | GWh

MM_YY	RS→BA	RS [2]→BG	RS [2]→HR	RS [2]→HU	RS→ME	RS→MK	RS [2]→RO	RS [2]→AL	UCTE_EXP	Total_EXP	BA→RS	BG→RS [2]	HR→RS [2]	HU→RS [2]	ME→RS	MK→RS	RO→RS [2]	AL→RS [2]	UCTE_IMP	Total_IMP	RS_UCTE	RS_Total
	Export (-)										Import (+)										Balance	
I.98		0	16	0			6	13				99	0	120			75	64				
II.98		1	9	0			7	11				54	0	105			38	63				
III.98		2	24	0			17	23				45	0	32			20	38				
IV.98		18	1	0			73	41				13	0	9			4	13				
V.98		31	9	0			120	13				9	0	0			1	35				
VI.98		34	0	0			84	19				6	2	7			2	60				
VII.98		47	2	0			117	21				4	0	13			1	53				
VIII.98		14	1	0			71	47				37	0	25			3	44				
IX.98		18	0	0			77	25				33	0	69			3	50				
X.98		11	0	0			39	19				27	0	82			18	61				
XI.98		13	0	0			64	20				36	0	106			2	87				
XII.98		0	0	0			10	9				100	0	123			89	115				
1998		**189**	**62**	**0**			**685**	**261**				**463**	**2**	**691**			**256**	**683**				
I.07	261	0	170	0	186	107	0	11	724	735	47	177	0	423	27	0	284	15	958	973	234	238
II.07	193	0	151	0	108	152	0	20	604	624	23	139	0	384	32	0	253	1	831	832	227	208
III.07	130	0	106	0	85	236	0	31	557	588	29	130	0	218	38	0	280	0	695	695	138	107
IV.07	172	0	118	0	107	162	0	28	559	587	14	108	0	113	21	0	205	2	461	463	-98	-124
V.07	204	0	149	0	165	220	1	18	739	757	25	140	0	189	6	1	128	7	489	496	-250	-261
VI.07	198	0	133	0	175	301	1	40	808	848	28	147	0	155	4	0	175	0	509	509	-299	-339
VII.07	187	0	111	0	160	260	1	21	719	740	20	127	0	320	6	0	199	2	672	674	-47	-66
VIII.07	156	0	89	0	125	264	8	29	642	671	45	161	0	330	32	0	146	0	714	714	72	43
IX.07	202	0	151	0	124	148	0	34	625	659	38	197	0	278	20	0	236	0	769	769	144	110
X.07	246	0	198	0	122	158	0	24	724	748	39	205	0	311	21	0	271	2	847	849	123	101
XI.07	213	0	206	0	139	202	0	13	760	773	33	237	0	320	18	0	280	7	888	895	128	122
XII.07	243	0	209	0	119	258	0	10	829	839	25	234	0	389	28	0	287	12	963	975	134	136
2007	**2405**	**0**	**1791**	**0**	**1615**	**2468**	**11**	**279**	**8290**	**8569**	**366**	**2002**	**0**	**3430**	**253**	**1**	**2744**	**48**	**8796**	**8844**	**506**	**275**
I.08	245	0	206	0	96	226	0	6	773	779	22	189	0	395	51	0	324	21	981	1002	208	223
II.08	220	0	166	0	82	234	0	11	702	713	26	138	0	337	62	0	313	12	876	888	174	175
III.08	223	0	216	0	137	235	0	27	811	838	22	240	0	273	25	0	317	0	877	877	66	39
IV.08	197	0	183	0	132	206	0	13	718	731	9	240	0	146	19	0	235	14	649	663	-69	-68
V.08	180	0	160	0	142	244	0	14	726	740	25	238	0	151	13	1	226	18	654	672	-72	-68
VI.08	138	0	138	0	61	290	0	22	627	649	21	126	0	133	36	0	189	2	505	507	-122	-142
VII.08	215	1	181	0	140	304	0	13	841	854	18	183	0	171	23	0	254	15	649	664	-192	-190
VIII.08	193	0	134	0	106	292	9	14	734	748	30	213	0	207	21	0	240	9	711	720	-23	-28
IX.08	144	0	144	0	85	203	0	16	576	592	5	148	0	184	66	0	216	8	619	627	43	35
X.08	259	0	149	0	164	115	0	10	687	697	17	217	0	198	33	0	279	13	744	757	57	60
XI.08	219	0	202	0	72	194	1	3	688	691	21	269	0	196	35	0	328	33	849	882	161	191
XII.08	145	0	182	0	72	140	0	3	539	542	42	181	0	259	55	13	294	33	844	877	305	335
2008	**2378**	**1**	**2061**	**0**	**1289**	**2683**	**10**	**152**	**8422**	**8574**	**258**	**2382**	**0**	**2650**	**439**	**14**	**3215**	**178**	**8958**	**9136**	**536**	**562**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation". [2] Physical exchanges of the year 2008 with YUGO

Serbia

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	
			2007	28969
			2008	29383
Hydraulic net generation	GWh	Σ	1998	
			2007	9928
			2008	10020
Other renewable net generation [1]	GWh	Σ	2007	0
			2008	0
- of which wind	GWh	Σ	2007	0
			2008	0
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	
			2007	38897
			2008	39403
Physical import	GWh	Σ	1998	
			2007	8844
			2008	9136
Physical export	GWh	Σ	1998	
			2007	8569
			2008	8574
Total physical import/export balance	GWh	Σ	1998	
			2007	-246
			2008	435
Consumption of pumps	GWh	Σ	1998	
			2007	812
			2008	856
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	
			2007	37839
			2008	38982
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	
			2007	5273
			2008	4813
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	
			2007	6492
			2008	6146
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	
			2007	6534
			2008	6520
Time of highest load on the 3rd Wednesday		CET	1998	
			2007	10:00
			2008	19:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
2927	2322	2319	2145	2245	2281	2124	2152	2002	2656	2728	3068
3146	2802	2559	2061	2012	1698	2331	2153	2265	2756	2865	2735
785	900	1103	893	762	706	651	531	697	708	1057	1135
875	778	1117	1149	927	818	707	709	697	509	611	1123
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
3712	3222	3422	3038	3007	2987	2775	2683	2699	3364	3785	4203
4021	3580	3676	3210	2939	2516	3038	2862	2962	3265	3476	3858
973	832	695	463	496	509	674	714	769	849	895	975
1002	888	877	663	672	507	664	720	627	757	882	877
735	624	588	587	757	848	740	671	659	748	773	839
779	713	838	731	740	649	854	748	592	697	691	542
-232	-202	-100	130	259	346	71	-34	-104	-109	-127	-144
-152	-82	-11	91	-107	138	189	26	-25	42	111	215
134	10	32	12	73	59	42	57	106	144	99	44
52	40	93	67	52	20	117	101	29	100	106	79
3346	3010	3290	3156	3193	3274	2804	2592	2489	3111	3559	4015
3817	3458	3572	3234	2780	2634	3110	2787	2908	3207	3481	3994
4450	4117	3712	2993	2620	2789	2863	2711	2856	3662	4608	**5273**
4800	**4813**	4205	3496	2737	2795	2699	2807	2963	3150	4090	4376
5604	5311	5080	4343	4008	4113	4280	3924	4233	4913	5799	**6492**
6146	5901	5333	5219	4147	4148	3923	4070	4757	4496	5343	5703
6097	5914	5827	5125	4558	4650	4568	4395	4918	5696	6139	**6534**
6520	6407	6000	5490	4676	4558	4529	4611	5536	5423	6196	6476
19:00	19:00	20:00	21:00	21:00	22:00	22:00	21:00	20:00	20:00	18:00	**10:00**
19:00	21:00	20:00	21:00	22:00	22:00	22:00	21:00	20:00	21:00	19:00	19:00

Slovenia

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	4786
			2007	5421
			2008	5970
Fossil fuels net generation	GWh	Σ	1998	4362
			2007	4816
			2008	4838
Hydraulic net generation	GWh	Σ	1998	3147
			2007	2814
			2008	3506
Other renewable net generation [1]	GWh	Σ	2007	0
			2008	0
- of which wind	GWh	Σ	2007	0
			2008	0
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	12295
			2007	13051
			2008	14314
Physical import	GWh	Σ	1998	2492
			2007	6106
			2008	6233
Physical export	GWh	Σ	1998	3140
			2007	5680
			2008	7827
Total physical import/export balance	GWh	Σ	1998	-648
			2007	397
			2008	-1628
Consumption of pumps	GWh	Σ	1998	0
			2007	0
			2008	0
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	11647
			2007	13448
			2008	12686
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	1043
			2007	1407
			2008	1220
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	1917
			2007	2057
			2008	1814
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	2018
			2007	2173
			2008	1918
Time of highest load on the 3rd Wednesday		CET	1998	18:00
			2007	18:00
			2008	20:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	1812

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
463	409	449	312	8	426	456	441	446	464	446	466
518	469	517	487	500	482	497	495	491	80	369	516
516	483	515	500	514	407	508	507	493	511	500	516
429	388	468	390	403	270	270	214	356	375	406	393
480	418	472	349	237	266	445	407	380	430	447	485
473	464	434	443	333	418	406	332	402	434	348	351
195	126	125	225	256	307	372	263	336	418	323	201
164	176	250	280	252	237	295	226	275	267	216	176
194	151	189	273	372	429	380	337	217	218	358	388
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1087	923	1042	927	667	1003	1098	918	1138	1257	1175	1060
1162	1063	1239	1116	989	985	1237	1128	1146	777	1032	1177
1183	1098	1138	1216	1219	1254	1294	1176	1112	1163	1206	1255
158	197	251	229	322	228	279	183	177	93	121	254
554	451	555	546	410	371	378	348	469	724	715	585
591	480	607	544	475	414	523	425	436	514	502	722
116	85	133	157	151	196	335	311	467	450	392	347
530	446	625	615	284	247	494	401	515	347	589	587
624	503	629	724	660	636	759	601	509	569	645	968
42	112	118	72	171	32	-56	-128	-290	-357	-271	-93
21	1	-73	-73	125	123	-116	-55	-47	373	123	-5
-36	-27	-25	-183	-188	-225	-240	-178	-75	-58	-144	-249
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1129	1035	1160	999	838	1035	1042	790	848	900	904	967
1183	1064	1166	1043	1114	1108	1121	1073	1099	1150	1155	1172
1147	1071	1113	1033	1031	1029	1054	998	1037	1105	1062	1006
956	969	987	994	894	941	896	907	919	945	986	**1043**
1308	1330	1360	1261	1322	1355	1370	1193	1241	1317	1365	**1407**
1174	1178	**1220**	1141	1158	1123	1093	1101	1171	1194	1160	999
1495	1401	1455	1401	1350	1406	1306	1317	1356	1457	**1917**	1570
1998	1925	1917	1793	1887	1937	1940	1433	1871	1927	**2047**	2057
1805	**1814**	1719	1666	1702	1691	1639	1669	1699	1731	1738	1665
1546	1508	1551	1480	1404	1434	1323	1346	1404	1529	**2018**	1624
2049	2032	2121	1898	1930	2022	2018	1496	1958	2060	**2173**	2168
1866	**1918**	1856	1741	1771	1731	1725	1757	1823	1863	1907	1698
19:00	20:00	20:00	21:00	12:00	12:00	13:00	09:00	21:00	20:00	**18:00**	18:00
19:00	19:00	20:00	21:00	12:00	13:00	12:00	22:00	21:00	20:00	**18:00**	19:00
19:00	**20:00**	20:00	21:00	09:00	09:00	12:00	13:00	20:00	20:00	18:00	09:00
1256	1173	1234	1337	1041	1336	1296	1393	1695	**1812**	1791	1593

Physical exchanges in interconnected operation [1]

MM_YY	SI→AT	SI→HR	SI→IT	UCTE_EXP	Total_EXP	AT→SI	HR→SI	IT→SI	UCTE_IMP	Total_IMP	SI_UCTE	SI_Total
	Export (-)					Import (+)					Balance	
I.98	3	49	64	116	116	93	0	65	158	158	42	42
II.98	0	61	24	85	85	112	0	85	197	197	112	112
III.98	0	102	31	133	133	152	0	99	251	251	118	118
IV.98	0	82	75	157	157	175	0	54	229	229	72	72
V.98	0	106	45	151	151	242	0	80	322	322	171	171
VI.98	0	114	82	196	196	216	0	12	228	228	32	32
VII.98	4	147	184	335	335	268	0	11	279	279	-56	-56
VIII.98	15	148	148	311	311	175	0	8	183	183	-128	-128
IX.98	1	91	375	467	467	172	0	5	177	177	-290	-290
X.98	10	72	368	450	450	87	0	6	93	93	-357	-357
XI.98	13	58	321	392	392	119	0	2	121	121	-271	-271
XII.98	0	123	224	347	347	246	0	8	254	254	-93	-93
1998	**46**	**1153**	**1941**	**3140**	**3140**	**2057**	**0**	**435**	**2492**	**2492**	**-648**	**-648**
I.07	107	66	357	530	530	72	481	1	554	554	24	24
II.07	96	82	268	446	446	74	376	1	451	451	5	5
III.07	75	115	435	625	625	88	467	0	555	555	-70	-70
IV.07	31	185	399	615	615	164	381	1	546	546	-69	-69
V.07	25	174	85	284	284	132	209	69	410	410	126	126
VI.07	38	182	27	247	247	101	156	114	371	371	124	124
VII.07	17	283	194	494	494	147	219	12	378	378	-116	-116
VIII.07	12	344	45	401	401	146	124	78	348	348	-53	-53
IX.07	5	298	212	515	515	198	266	5	469	469	-46	-46
X.07	19	25	303	347	347	174	545	5	724	724	377	377
XI.07	71	35	483	589	589	75	640	0	715	715	126	126
XII.07	83	79	425	587	587	61	515	9	585	585	-2	-2
2007	**579**	**1868**	**3233**	**5680**	**5680**	**1432**	**4379**	**295**	**6106**	**6106**	**426**	**426**
I.08	141	68	415	624	624	76	513	2	591	591	-33	-33
II.08	97	101	305	503	503	75	403	2	480	480	-23	-23
III.08	113	69	447	629	629	55	551	1	607	607	-22	-22
IV.08	63	152	509	724	724	70	474	0	544	544	-180	-180
V.08	9	271	380	660	660	166	306	3	475	475	-185	-185
VI.08	23	272	341	636	636	141	265	8	414	414	-222	-222
VII.08	16	252	491	759	759	155	367	1	523	523	-236	-236
VIII.08	14	383	204	601	601	188	233	4	425	425	-176	-176
IX.08	49	296	164	509	509	97	270	69	436	436	-73	-73
X.08	113	134	322	569	569	84	426	4	514	514	-55	-55
XI.08	112	122	411	645	645	53	448	1	502	502	-143	-143
XII.08	123	101	744	968	968	50	672	0	722	722	-246	-246
2008	**873**	**2221**	**4733**	**7827**	**7827**	**1210**	**4928**	**95**	**6233**	**6233**	**-1594**	**-1594**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation [1]

Slovak Republic | GWh

MM_YY	SK→CZ	SK→HU	SK→PL	SK→UA_W	UCTE_EXP	Total_EXP	CZ→SK	HU→SK	PL→SK	UA_W→SK	UCTE_IMP	Total_IMP	SK_UCTE	SK_Total
	Export (-)						Import (+)						Balance	
I.98	75	184	0	0	0	259	345	1	0	227	0	227	0	-32
II.98	55	129	0	0	0	184	410	3	0	190	0	190	0	6
III.98	64	158	0	0	0	222	271	42	0	192	0	192	0	-30
IV.98	89	165	0	0	0	254	219	8	0	197	0	197	0	-57
V.98	69	180	0	0	0	249	322	6	0	149	0	149	0	-100
VI.98	84	166	0	0	0	250	236	7	0	185	0	185	0	-65
VII.98	72	204	0	0	0	276	329	3	0	122	0	122	0	-154
VIII.98	69	117	0	1	0	187	221	6	11	77	0	77	0	-110
IX.98	72	175	1	2	0	250	184	2	119	47	0	47	0	-203
X.98	93	226	0	1	0	320	138	4	148	83	0	83	0	-237
XI.98	103	214	1	0	0	318	169	1	106	120	0	120	0	-198
XII.98	93	225	0	1	0	319	245	0	116	81	0	81	0	-238
1998	**938**	**2143**	**2**	**5**	**0**	**3088**	**3089**	**83**	**500**	**1670**	**0**	**1670**	**0**	**-1418**
I.07	1	1010	0	329	1011	1340	1040	0	385	6	1425	1431	414	91
II.07	4	897	0	302	901	1203	819	0	371	5	1190	1195	289	-8
III.07	21	985	0	225	1006	1231	743	0	315	5	1058	1063	52	-168
IV.07	6	597	0	364	603	967	754	0	296	4	1050	1054	447	87
V.07	6	812	0	162	818	980	780	0	239	4	1019	1023	201	43
VI.07	7	637	0	137	644	781	735	0	213	5	948	953	304	172
VII.07	0	724	0	133	724	857	812	0	235	4	1047	1051	323	194
VIII.07	1	700	0	213	701	914	912	0	194	4	1106	1110	405	196
IX.07	2	610	0	269	612	881	822	0	345	4	1167	1171	555	290
X.07	0	671	0	212	671	883	955	0	296	5	1251	1256	580	373
XI.07	1	635	0	187	636	823	739	0	383	6	1122	1128	486	305
XII.07	4	780	0	212	784	996	814	0	327	6	1141	1147	357	151
2007	**53**	**9058**	**0**	**2745**	**9111**	**11856**	**9925**	**0**	**3599**	**58**	**13524**	**13582**	**4413**	**1726**
I.08	4	940	0	264	944	1208	901	0	330	6	1231	1237	287	29
II.08	6	850	0	258	856	1114	754	0	317	5	1071	1076	215	-38
III.08	16	782	0	70	798	868	563	0	232	6	795	801	-3	-67
IV.08	14	591	0	43	605	648	634	0	155	15	789	804	184	156
V.08	20	666	3	23	689	712	372	0	92	37	464	501	-225	-211
VI.08	9	408	8	16	425	441	433	0	71	32	504	536	79	95
VII.08	18	456	2	87	476	563	567	0	57	10	624	634	148	71
VIII.08	24	491	18	35	533	568	507	0	42	13	549	562	16	-6
IX.08	16	583	0	45	599	644	607	0	258	21	865	886	266	242
X.08	19	699	0	159	718	877	667	0	460	15	1127	1142	409	265
XI.08	64	492	0	96	556	652	299	0	357	8	656	664	100	12
XII.08	23	496	0	75	519	594	381	0	181	9	562	571	43	-23
2008	**233**	**7454**	**31**	**1171**	**7718**	**8889**	**6685**	**0**	**2552**	**177**	**9237**	**9414**	**1519**	**525**

[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Slovak Republic

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	10491
			2007	14181
			2008	15483
Fossil fuels net generation	GWh	Σ	1998	9157
			2007	7080
			2008	7288
Hydraulic net generation	GWh	Σ	1998	4561
			2007	4511
			2008	4306
Other renewable net generation [1]	GWh	Σ	2007	308
			2008	311
- of which wind	GWh	Σ	2007	8
			2008	7
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998 [2]	24209
			2007 [2]	26080
			2008 [2]	27388
Physical import	GWh	Σ	1998	5342
			2007	13582
			2008	9414
Physical export	GWh	Σ	1998	3088
			2007	11856
			2008	8889
Total physical import/export balance	GWh	Σ	1998	2249
			2007	1726
			2008	521
Consumption of pumps	GWh	Σ	1998	306
			2007	225
			2008	274
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	26152
			2007	27581
			2008	27635
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	3509
			2008	3346
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	4277
			2008	4120
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	4418
			2008	4275
Time of highest load on the 3rd Wednesday		CET	1998	n.a.
			2007	18:00
			2008	18:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	3749

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1048	799	860	822	711	726	762	814	762	1022	1038	1127
1422	1273	1421	1104	1246	1101	1135	1078	954	966	1130	1351
1468	1387	1470	966	1437	1128	1163	1224	1135	1203	1468	1434
857	821	991	716	680	613	574	650	714	697	825	1019
647	620	642	592	540	487	465	521	494	707	682	683
777	728	574	654	584	523	487	512	546	636	630	637
375	299	389	399	376	355	362	248	337	476	561	384
391	409	537	369	343	317	306	271	418	342	375	433
362	341	493	481	414	358	412	342	267	260	234	342
26	24	25	25	25	23	24	21	30	28	27	30
29	27	28	25	24	24	26	20	23	28	29	28
1	1	1	1	1	0	0	0	0	1	1	1
1	1	1	1	0	0	0	0	0	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
2280	1919	2240	1937	1767	1694	1698	1712	1813	2195	2424	2530
2486	2326	2625	2090	2154	1928	1930	1891	1896	2043	2214	2497
2636	2483	2565	2126	2459	2033	2088	2098	1971	2127	2361	2441
573	603	505	424	477	428	454	315	352	373	396	442
1431	1195	1063	1054	1023	953	1051	1110	1171	1256	1128	1147
1237	1076	801	804	501	536	634	562	886	1142	664	571
259	184	222	254	249	250	276	187	250	320	318	319
1340	1203	1231	967	980	781	857	914	881	883	823	996
1208	1114	868	648	712	441	563	568	644	877	652	594
314	419	282	170	227	177	178	128	101	54	77	122
92	-8	-168	88	42	171	193	197	290	373	304	152
29	-38	-68	156	-212	96	71	-7	241	265	11	-23
27	22	20	20	17	22	27	27	29	35	37	23
22	21	23	19	19	10	21	15	11	19	20	25
28	26	19	20	27	26	18	13	21	22	24	30
2567	2316	2502	2087	1977	1849	1849	1813	1885	2214	2464	2629
2556	2297	2434	2159	2177	2089	2102	2073	2175	2397	2498	2624
2637	2419	2478	2262	2220	2103	2141	2078	2191	2370	2348	2388
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3224	3191	3060	2795	2721	2890	2730	2607	2769	3032	3283	**3509**
3346	3318	3164	2940	2871	2740	2672	2603	2802	2869	3070	2897
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4007	3857	3826	3572	3385	3478	3493	3275	3471	3652	4012	**4277**
4120	3991	3895	3636	3646	3460	3373	3368	3648	3625	3931	3763
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4189	4003	3982	3642	3415	3546	3543	3342	3662	3867	4238	**4418**
4275	4101	4036	3762	3691	3496	3493	3428	3708	3782	4162	3920
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
17:00	19:00	19:00	20:00	13:00	13:00	13:00	14:00	20:00	20:00	18:00	**18:00**
18:00	19:00	20:00	21:00	13:00	14:00	13:00	13:00	20:00	20:00	18:00	18:00
3370	2955	3340	3066	2506	2674	2618	2692	3010	3295	**3749**	3706

[2] including deliveries from industry

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	689494
			2007	759358
			2008	774800
Fossil fuels net generation	GWh	Σ	1998	1057667
			2007	1402291
			2008	1383911
Hydraulic net generation	GWh	Σ	1998	284380
			2007	294233
			2008	306469
Other renewable net generation [1]	GWh	Σ	2007	135334
			2008	158327
- of which wind	GWh	Σ	2007	87457
			2008	100912
Non-identifiable net generation [1]	GWh	Σ	2007	8041
			2008	11027
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998 [2]	2172177
			2007 [2]	2607314
			2008 [2]	2643042
Physical import	GWh	Σ	1998	188926
			2007	326215
			2008	310644
Physical export	GWh	Σ	1998	192295
			2007	325257
			2008	309196
Total physical import/export balance	GWh	Σ	1998	-979
			2007	-1450
			2008	-893
Consumption of pumps	GWh	Σ	1998	32619
			2007	41655
			2008	39841
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	2138579
			2007	2564209
			2008	2602308
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	199651
			2007	298701
			2008	277982
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	277513
			2007	394640
			2008	383046
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	284534
			2007	411148
			2008	392362
Time of highest load on the 3rd Wednesday		CET	1998	18:00
			2007	18:00
			2008	19:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	310135

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
67597	61083	61509	55588	53482	50077	52515	50329	53680	59154	60573	63907
73886	65695	67697	59950	59538	56632	57294	57968	59188	65169	64560	71781
73718	70261	69796	62042	60793	54384	60033	61140	59147	63323	65934	74229
92732	87343	97825	84089	76364	77188	84064	78375	84848	90293	98802	105744
128472	116048	119653	105545	103318	107096	113359	107125	109228	125326	132621	134500
134311	127048	120253	112316	99608	103234	112580	102917	112438	122085	118812	118309
27746	21278	20605	24017	27328	27851	24562	20152	21411	24219	23821	21390
22700	23935	28198	23936	26926	29715	28889	24324	21944	21271	20471	21924
23492	19606	23117	27768	32353	35003	30302	25006	23290	18877	21957	25698
15132	11188	12911	8486	10262	8980	11028	10289	11124	9179	13515	13240
17001	13347	17939	12233	9637	10471	10927	11865	10865	13479	15562	15001
11579	7815	9158	4775	6441	5031	6759	5961	6887	4905	9182	8964
12491	8940	13056	7671	4935	5815	6139	6887	5995	8492	10778	9713
787	507	649	655	752	598	701	574	762	618	863	575
906	834	967	960	949	894	900	876	765	854	965	1157
200808	181181	192576	175143	168066	165599	172230	159502	170961	185923	195825	204363
241696	217998	229756	199130	201454	203670	211969	200941	202891	222219	232796	242794
250213	231823	232838	216029	203923	204610	215468	202472	207194	219324	223980	235168
16961	15103	17152	15712	15948	14904	15412	13703	15698	15771	15548	17014
30899	26722	29779	26849	25259	24326	26817	26211	25557	27115	27580	29101
30747	28298	29214	25818	24393	22351	24658	23477	22424	25171	25883	28210
17470	15792	17759	16424	16615	15239	14933	12964	15715	16212	15972	17200
30838	26983	29719	25673	24470	24511	26688	26358	26201	27237	27430	29149
30981	28078	28953	25489	24060	22185	24232	24138	22392	24683	25924	28081
-298	-537	-456	-454	-411	-269	538	1007	334	-280	-306	153
-665	-848	-332	1259	1165	462	218	-368	-945	-509	-319	-568
-874	-316	-17	379	194	341	678	-740	-248	385	-402	-273
2634	2088	2260	2362	2698	2835	3171	2919	3144	2964	2736	2808
3829	3327	3233	3185	3546	3213	3339	3108	3248	3689	3910	4028
3779	3325	3511	2905	3129	3014	3035	2939	3057	3725	3635	3787
197876	178556	189860	172327	164957	162495	169597	157590	168151	182679	192783	201708
237202	213823	226191	197204	199073	200919	208848	197465	198698	218021	228567	238198
245560	228182	229310	213503	200988	201937	213111	198793	203889	215984	219943	231108
196998	186860	183589	181088	156819	159041	157085	153570	164934	174847	**199651**	192780
261672	260021	265718	226069	225679	232290	236691	210123	231234	238201	267332	**298701**
276051	**277982**	266831	255371	228433	230186	234059	220696	232008	231822	253135	262903
277513	261144	259364	263740	238922	245204	246130	231191	249865	260733	272069	276307
365810	355817	357430	323333	323802	339200	341511	266355	331585	339698	368986	**394640**
383046	371274	353808	346815	328655	330199	334210	311328	332581	334536	355341	372728
279163	261144	259364	263740	239643	246462	247485	232824	250383	260733	282896	**284534**
377973	363807	366505	324521	325599	342459	345255	272314	332483	349648	383877	**411148**
392362	381465	365042	346910	331555	334379	338765	316905	334970	344999	377944	387048
19:00	11:00	11:00	11:00	12:00	12:00	12:00	12:00	12:00	11:00	19:00	**18:00**
19:00	19:00	20:00	12:00	12:00	12:00	12:00	13:00	12:00	20:00	18:00	**18:00**
19:00	19:00	20:00	12:00	12:00	12:00	12:00	12:00	12:00	20:00	18:00	18:00
310135	291356	290126	289042	262129	268139	265565	249131	276713	286871	306074	308669

[2] including deliveries from industry

[3] Ukraine West is not part of UCTE values; from June 2007 including Denmark West

Annual physical electricity exchange in interconnected operation (GWh)

EXPORTING COUNTRIES	Year	IMPORTING COUNTRIES AT	BA	BE	BG	CH	CZ	DE	DK_W	ES	FR	GR	HR	HU	IT
AT	1998					3055	67	3954						106	1632
	2007					8222	40	4511						1457	1405
	2008					7449	56	5607						839	1367
BA	1998												793		
	2007												1702		
	2008												2664		
BE	1998										1445				
	2007										2321				
	2008										2036				
BG	1998											1086			
	2007											4297			
	2008											4628			
CH	1998	203						5259			1007				21467
	2007	37						3105			2648				28859
	2008	106						2709			3548				24162
CZ	1998	2750						4802							
	2007	6988						9421							
	2008	5335						7940							
DE	1998	6165				10314	336		n.a.		404				
	2007	16132				15026	886		680		729				
	2008	14997				13858	1326		586		868				
DK_W	1998							n.a.							
	2007							5905							
	2008							7180							
ES	1998										757				
	2007										1113				
	2008										1661				
FR	1998			4475		9172		12698		5187					16586
	2007			8346		10442		16434		6621					15132
	2008			7286		8787		10569		4564					12841
GR	1998				51										0
	2007				0										170
	2008				0										181
HR	1998		310											0	
	2007		1175											0	
	2008		737											4	
HU	1998	1275											416		
	2007	243											6536		
	2008	721											5301		
IT	1998	0				10					453	0			
	2007	0				66					1154	1131			
	2008	1				400					1140	1758			
LU	1998			0				923							
	2007			2084				802							
	2008			1629				835							
ME	1998														
	2007		163												
	2008		239												
MK	1998											1412			
	2007				1							904			
	2008				0							1189			
NL	1998			3216				1493							
	2007			5268				300							
	2008			8121				829							
PL	1998						7078	503							
	2007						9230	48							
	2008						6909	96							
PT	1998									3719					
	2007									2154					
	2008									1315					
RO	1998				n.a.									n.a.	
	2007				3057									250	
	2008				3095									720	
RS	1998														
	2007		2405		0								1791	0	
	2008		2378		1								2061	0	
SI	1998	46											1153		1941
	2007	579											1868		3233
	2008	873											2221		4733
SK	1998						938							2143	
	2007						53							9058	
	2008						233							7454	
UA_W	1998													n.a.	
	2007													3915	
	2008													3755	
UCTE	1998	6414	310	7691	240	22551	403	24327	n.a.	8906	4066	1412	1696	106	41626
	2007	23979	3743	15698	3057	33756	10209	37917	680	8775	7965	6332	11897	10765	48799
	2008	22033	3354	17036	3095	30494	8524	35765	586	5879	9253	7575	12247	9017	43284
Third countries	1998	4025	0	0	n.a.	0	8016	12540	n.a.	1	32	1097	728	2143	0
	2007	0	0	0	0	0	0	6353	5591	21	2395	89	0	3915	0
	2008	0	0	0	0	0	0	4480	7178	15	923	0	0	3755	0
Total Import	1998	10439	310	7691	n.a.	22551	8419	36867	n.a.	8907	4098	2509	2424	2249	41626
	2007	23979	3743	15698	3057	33756	10209	44270	6271	8796	10360	6421	11897	14680	48799
	2008	22033	3354	17036	3095	30494	8524	40245	7764	5894	10176	7575	12247	12772	43284
UCTE Balance	1998	-4284	-483	1251	n.a.	-5385	-7149	-10627	n.a.	4260	-44052	1389	1384	-2276	40728
	2007	6912	-601	6660	-4463	-893	-16145	-23353	-5225	-1821	-49010	6051	6343	176	46153
	2008	5505	-1650	10475	-5345	-31	-11462	-25609	-6594	-6379	-34794	7299	6578	241	39890
Total Balance	**1998**	**-432**	**n.a.**	**1251**	**n.a.**	**-5385**	**-2328**	**-1745**	**n.a.**	**3560**	**-56618**	**1620**	**2112**	**-216**	**40728**
	2007	**6912**	**-601**	**6660**	**-4463**	**-893**	**-16145**	**-19115**	**-1773**	**-5302**	**-55105**	**4366**	**6343**	**3984**	**46153**
	2008	**5505**	**-1650**	**10475**	**-5345**	**-31**	**-11462**	**-22450**	**-1035**	**-10591**	**-46319**	**5611**	**6578**	**3905**	**39890**

IT	LU	ME	MK	NL	PL	PT	RO	RS	SI	SK	UA_W	UCTE	Third countries	Total Export
1632 1405 1367									2057 1432 1210			10698 17067 16528	173 0 0	**10871 17067 16528**
		2276 2082						366 439				793 4344 5004	0 0 0	**793 4344 5004**
	1871 1630 1517			3124 5087 3008								6440 9038 6561	0 0 0	**6440 9038 6561**
			0 809 1142				n.a. 412 288	463 2002 2382				1549 7520 8440	n.a. 0 0	**n.a. 7520 8440**
21467 28859 24162												27936 34649 30525	0 0 0	**27936 34649 30525**
					106 20 26					3089 9925 6685		7552 26354 19986	3195 0 0	**10747 26354 19986**
	4450 5215 5302			13621 18063 18859	3019 4891 5578							34954 61270 61374	3658 2115 1321	**38612 63385 62695**
												n.a. 5905 7180	n.a. 2139 1619	**n.a. 8044 8799**
						3889 9483 10597						4646 10596 12258	701 3502 4227	**5347 14098 16485**
16586 15132 12841												48118 56975 44047	12598 8490 12448	**60716 65465 56495**
0 170 181			23 111 95									23 281 276	866 1774 1688	**889 2055 1964**
								2 0 0	0 4379 4928			312 5554 5669	0 0 0	**312 5554 5669**
							691 3430 2650	0 3430 2650		83 0 0	0 107 91	2382 10589 8776	83 107 91	**2465 10696 8867**
									435 295 95			898 2646 3394	0 0 0	**898 2646 3394**
												923 2886 2464	0 0 0	**923 2886 2464**
								253 439				416 678	827 806	**1243 1484**
								1 14				1412 906 1203	n.a. 0 0	**n.a. 906 1203**
												4709 5568 8950	0 0 332	**4709 5568 9282**
										500 3599 2552		503 12877 9557	7578 230 147	**8081 13107 9704**
												3719 2154 1315	0 0 0	**3719 2154 1315**
								256 2744 3215			n.a. 0 12	256 6051 7030	n.a. 0 12	**n.a. 6051 7042**
		1615 1289	2468 2683				11 10					8290 8422	279 152	**8569 8574**
1941 3233 4733												3140 5680 7827	0 0 0	**3140 5680 7827**
					2 0 31						5 2745 1171	0 9111 7718	3088 2745 1171	**3088 11856 8889**
							n.a. 2848 1434			1670 58 177		0 6821 5366	n.a. 0 0	**n.a. 6821 5366**
41626 48799 43284	6321 6845 6819	3891 3371	23 3388 3920	16745 23150 21867	3019 4911 5635	3889 9483 10597	685 803 402	8796 8958	2492 6106 6233	0 13524 9237	0 2852 1274	148721 306727 285182	n.a. 22208 24014	n.a. **328935 309196**
0 0 0	0 0 0	2 7	n.a. 0 0	0 0 3156	910 2841 3386	0 0 0	n.a. 3162 2207	48 178	0 0 0	1670 58 177	n.a. 0 0	n.a. 18834 18099		
41626 48799 43284	6321 6845 6819	3893 3378	n.a. 3388 3920	16745 23150 25023	3929 7752 9021	3889 9483 10597	n.a. 3965 2609	8844 9136	2492 6106 6233	1670 13582 9414	n.a. 2852 1274	183136 328944 310643		
40728 46153 39890	5398 3959 4355	3475 3242	-1389 2482 2717	12036 17582 12917	2516 -7966 -3922	170 7329 9282	252 -5248 -6628	506 536	-648 426 -1594	0 4413 1519	n.a. -3969 -4092			
40728 46153 39890	**5398 3959 4355**	**2650 1894**	**n.a. 2482 2717**	**12036 17582 15741**	**-4152 -5355 -683**	**170 7329 9282**	**n.a. -2086 -4433**	**275 562**	**-648 426 -1594**	**-1418 1726 525**	**n.a. -3969 -4092**			

Ukraine West

Monthly values / Operation

				I-XII
Thermal nuclear net generation	GWh	Σ	1998	n.a.
			2007	0
			2008	0
Fossil fuels net generation	GWh	Σ	1998	n.a.
			2007	8096
			2008	8094
Hydraulic net generation	GWh	Σ	1998	n.a.
			2007	145
			2008	153
Other renewable net generation [1]	GWh	Σ	2007	0
			2008	0
- of which wind	GWh	Σ	2007	0
			2008	0
Non-identifiable net generation [1]	GWh	Σ	2007	0
			2008	0
Total net electrical energy generation calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007	8241
			2008	8247
Physical import	GWh	Σ	1998	n.a.
			2007	2852
			2008	1274
Physical export	GWh	Σ	1998	n.a.
			2007	6821
			2008	5366
Total physical import/export balance	GWh	Σ	1998	n.a.
			2007	-3970
			2008	-4092
Consumption of pumps	GWh	Σ	1998	n.a.
			2007	0
			2008	0
National electrical consumption, calculated to represent 100% of the national values	GWh	Σ	1998	n.a.
			2007	4271
			2008	4155
Consumption load 3:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	650
			2008	637
Consumption load 11:00 a.m. on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	828
			2008	850
Highest load on the 3rd Wednesday, calculated to represent 100% of the national values	MW	max.	1998	n.a.
			2007	917
			2008	944
Time of highest load on the 3rd Wednesday		CET	1998	n.a.
			2007	18:00
			2008	17:00
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1998	n.a.

[1] Before 2005, the information on renewable and not identifiable energy sources was collected in a different manner. Some countries added them to thermal conventional, some considered them as the part of not represented in the figures (through the factor "representativity").

Ukraine West

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
719	674	695	644	574	599	691	694	565	688	752	801
804	732	726	617	585	640	665	655	638	574	709	749
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
15	17	20	14	17	7	11	5	14	10	4	11
8	11	20	19	18	10	18	13	7	9	7	13
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
734	691	715	658	591	606	702	699	579	698	756	812
812	743	746	636	603	650	683	668	645	583	716	762
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
335	302	257	366	165	139	138	221	283	224	194	228
269	258	88	45	26	27	88	58	52	165	108	90
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0	n.a.	n.a.	n.a.
650	610	599	698	446	453	524	609	561	552	538	581
625	595	445	340	324	413	491	448	402	406	445	432
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-315	-308	-342	-332	-281	-314	-386	-388	-279	-328	-344	-353
-356	-337	-357	-295	-297	-386	-404	-390	-350	-241	-337	-342
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
419	383	373	326	310	292	316	311	300	370	412	459
456	406	389	341	306	264	279	278	295	342	379	420
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
584	593	521	468	424	455	453	456	441	540	610	**650**
605	**637**	574	488	386	416	407	373	436	428	549	553
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
762	738	726	599	556	618	600	643	587	675	762	**828**
803	**850**	689	663	541	564	566	558	635	584	822	736
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
917	865	815	741	658	635	671	709	695	831	869	890
944	913	822	766	621	599	621	628	754	753	934	865
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
18:00	19:00	19:00	20:00	21:00	21:00	21:00	21:00	20:00	19:00	17:00	17:00
17:00	18:00	19:00	20:00	21:00	09:00	21:00	21:00	19:00	19:00	17:00	19:00
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Physical exchanges in interconnected operation [1]

Ukraine West | GWh

MM_YY	UA_W→HU	UA_W→RO	UA_W→SK	UCTE_EXP	Total_EXP	HU→UA_W	RO→UA_W	SK→UA_W	UCTE_IMP	Total_IMP	UA_W_UCTE	UA_W_Total
	Export (-)					Import (+)					Balance	
I.98	n.a.	n.a.	227	0	n.a.	n.a.	n.a.	0	0	n.a.	0	n.a.
II.98	n.a.	n.a.	190	0	n.a.	n.a.	n.a.	0	0	n.a.	0	n.a.
III.98	n.a.	n.a.	192	0	n.a.	n.a.	n.a.	0	0	n.a.	0	n.a.
IV.98	n.a.	n.a.	197	0	n.a.	n.a.	n.a.	0	0	n.a.	0	n.a.
V.98	n.a.	n.a.	149	0	n.a.	n.a.	n.a.	0	0	n.a.	0	n.a.
VI.98	n.a.	n.a.	185	0	n.a.	n.a.	n.a.	0	0	n.a.	0	n.a.
VII.98	n.a.	n.a.	122	0	n.a.	n.a.	n.a.	0	0	n.a.	0	n.a.
VIII.98	n.a.	n.a.	77	0	n.a.	n.a.	n.a.	1	0	n.a.	0	n.a.
IX.98	n.a.	n.a.	47	0	n.a.	n.a.	n.a.	2	0	n.a.	0	n.a.
X.98	n.a.	n.a.	83	0	n.a.	n.a.	n.a.	1	0	n.a.	0	n.a.
XI.98	n.a.	n.a.	120	0	n.a.	n.a.	n.a.	0	0	n.a.	0	n.a.
XII.98	n.a.	n.a.	81	0	n.a.	n.a.	n.a.	1	0	n.a.	0	n.a.
1998	**n.a.**	**n.a.**	**1670**	**0**	**n.a.**	**n.a.**	**n.a.**	**5**	**0**	**n.a.**	**0**	**n.a.**
I.07	361	283	6	650	650	6	0	329	335	335	-315	-315
II.07	370	235	5	610	610	0	0	302	302	302	-308	-308
III.07	318	276	5	599	599	32	0	225	257	257	-342	-342
IV.07	414	280	4	698	698	2	0	364	366	366	-332	-332
V.07	216	226	4	446	446	3	0	162	165	165	-281	-281
VI.07	257	191	5	453	453	2	0	137	139	139	-314	-314
VII.07	330	190	4	524	524	5	0	133	138	138	-386	-386
VIII.07	324	281	4	609	609	8	0	213	221	221	-388	-388
IX.07	308	249	4	561	561	14	0	269	283	283	-278	-278
X.07	362	185	5	552	552	12	0	212	224	224	-328	-328
XI.07	335	197	6	538	538	7	0	187	194	194	-344	-344
XII.07	320	255	6	581	581	16	0	212	228	228	-353	-353
2007	**3915**	**2848**	**58**	**6821**	**6821**	**107**	**0**	**2745**	**2852**	**2852**	**-3969**	**-3969**
I.08	373	246	6	625	625	5	0	264	269	269	-356	-356
II.08	364	226	5	595	595	0	0	258	258	258	-337	-337
III.08	307	132	6	445	445	18	0	70	88	88	-357	-357
IV.08	252	73	15	340	340	1	1	43	45	45	-295	-295
V.08	180	107	37	324	324	3	0	23	26	26	-298	-298
VI.08	312	69	32	413	413	9	2	16	27	27	-386	-386
VII.08	408	73	10	491	491	0	1	87	88	88	-403	-403
VIII.08	314	121	13	448	448	23	0	35	58	58	-390	-390
IX.08	311	70	21	402	402	6	1	45	52	52	-350	-350
X.08	280	111	15	406	406	4	2	159	165	165	-241	-241
XI.08	343	94	8	445	445	7	5	96	108	108	-337	-337
XII.08	311	112	9	432	432	15	0	75	90	90	-342	-342
2008	**3755**	**1434**	**177**	**5366**	**5366**	**91**	**12**	**1171**	**1274**	**1274**	**-4092**	**-4092**

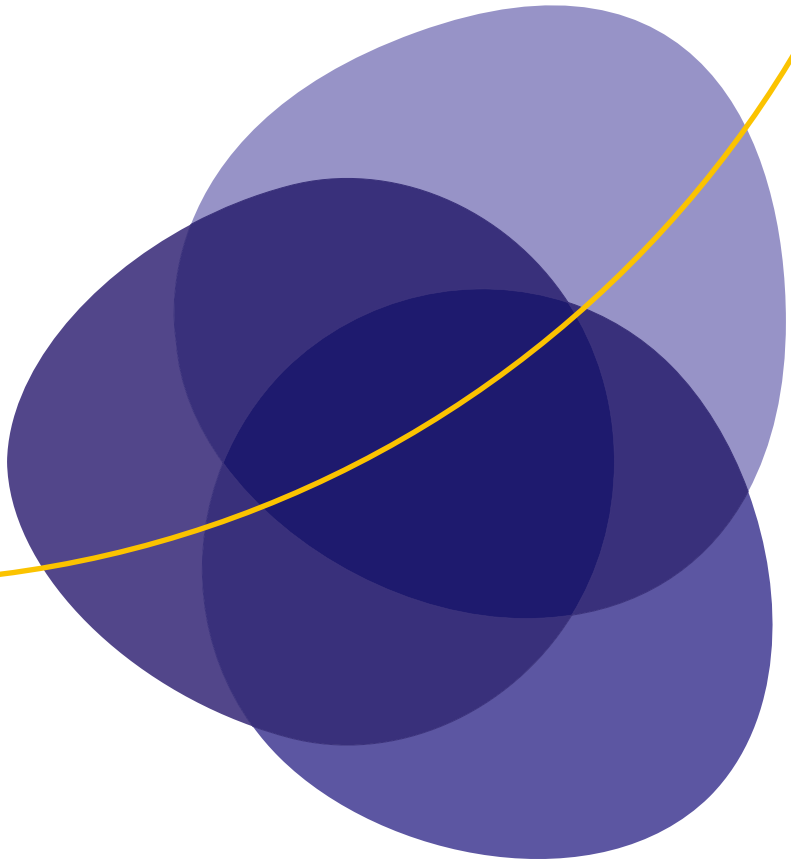
[1] These physical energy flows were measured on the cross-frontier transmission lines (≥110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

1 Monthly values

2 Load values

3 System information

4 Terminology



Load values [1]

II

HOURLY LOAD VALUES PER COUNTRY - GRAPHS AND TABLES

[1] All values are calculed to represent 100% of the national values

Load diagrams on the 3rd Wednesday

January 2008 96
February 2008 97
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May 2008 100
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UCTE 108

Tables on hourly load values on each 3rd Wednesday in 2008

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Bosnia-Herzegovina (BA) 110
Belgium [2] (BE) 110
Bulgaria (BG) 112
Switzerland (CH) 112
Czech Republic (CZ) 112
Germany [2] (DE) 114
Denmark West [3] (DK_W) 114
Spain (ES) 114
France (FR) 116
Greece (GR) 116
Croatia (HR) 116
Hungary (HU) 118
Italy (IT) 118
Luxembourg (LU) 118
Montenegro (ME) 120
FYROM [4] (MK) 120
The Netherlands (NL) 120
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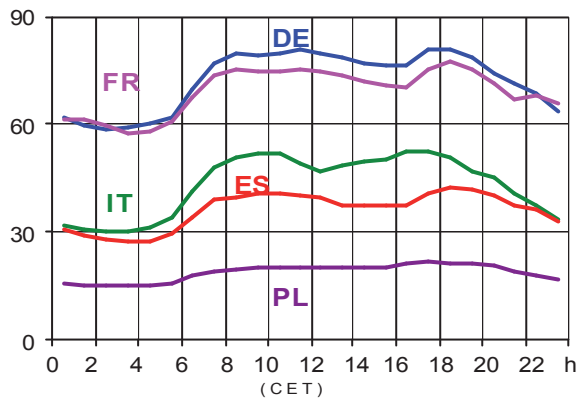
Ukraine West [5] (UA_W) 126

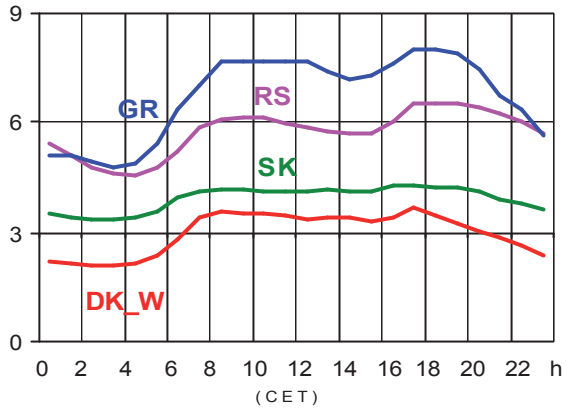
[2] The reported figures are best estimates based on actual measurements and extrapolations
[3] Denmark West represents the Western part of Denmark synchronously interconnected with UCTE (Jutland and Funen)
[4] FYROM = Former Yugoslav Republic of Macedonia
[5] Ukraine West represents the so-called Burshtyn Island synchronously interconnected with UCTE

Load diagrams on the 3rd Wednesday in GW

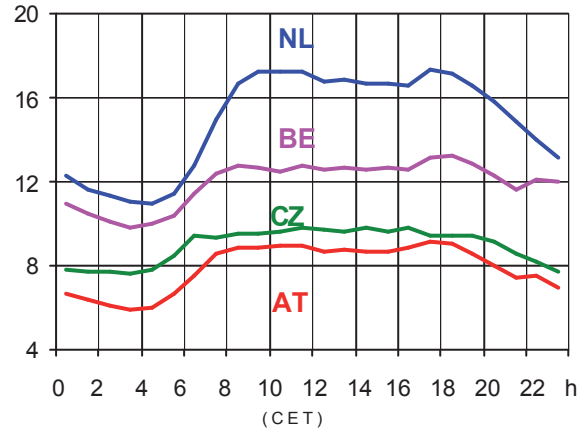
16.01.2008 **(in GW)**



16.01.2008 **(in GW)**



16.01.2008 **(in GW)**



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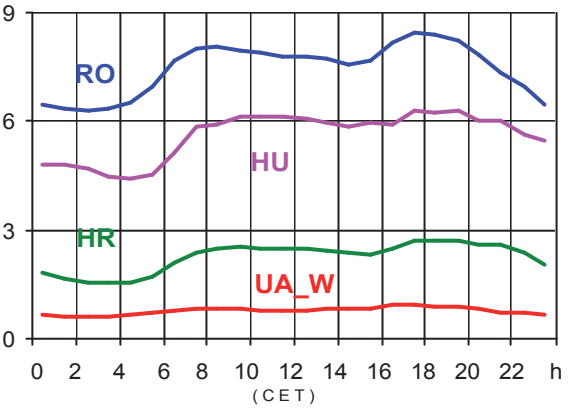

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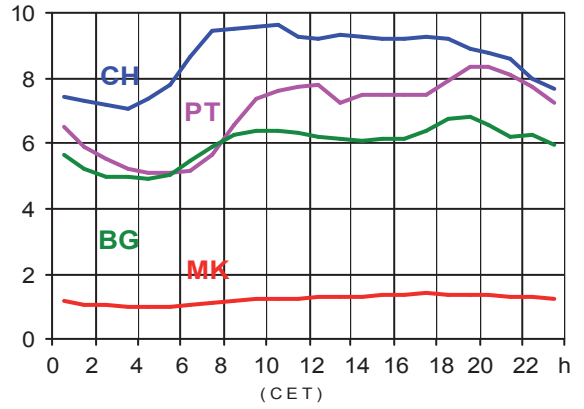

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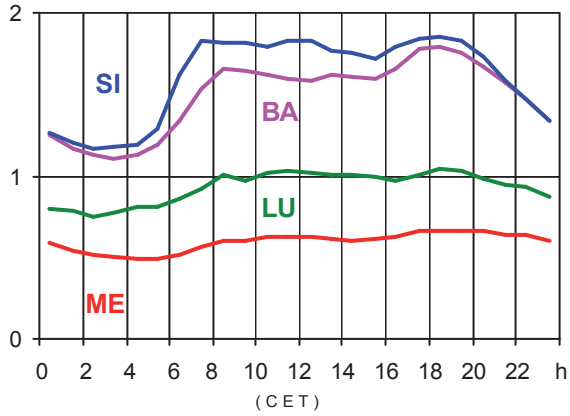

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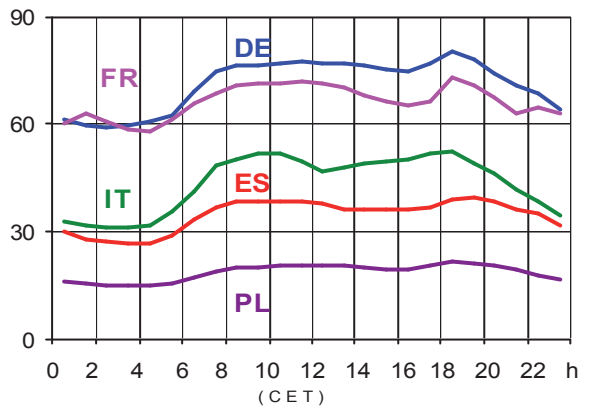

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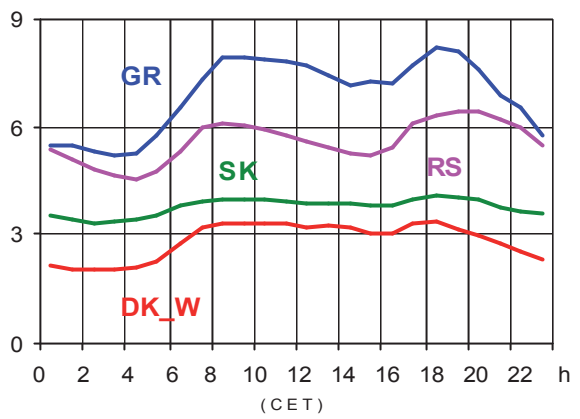

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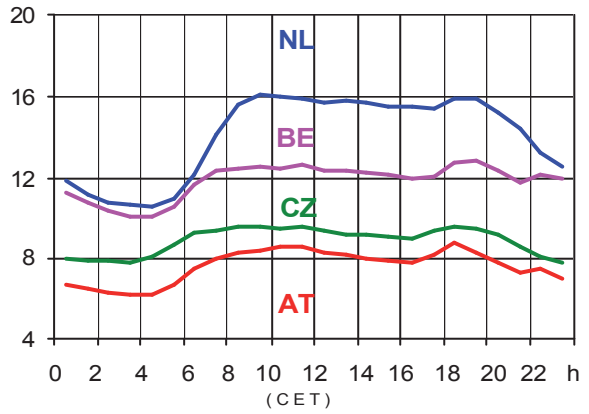

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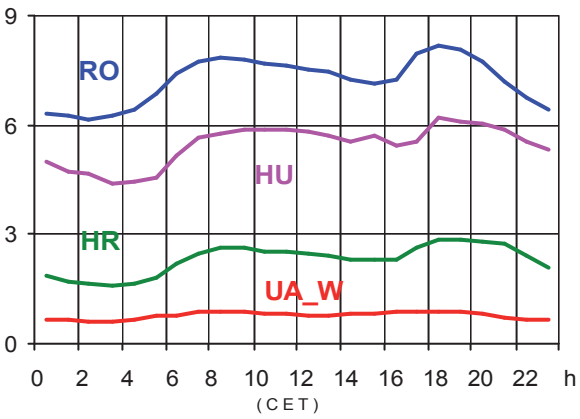

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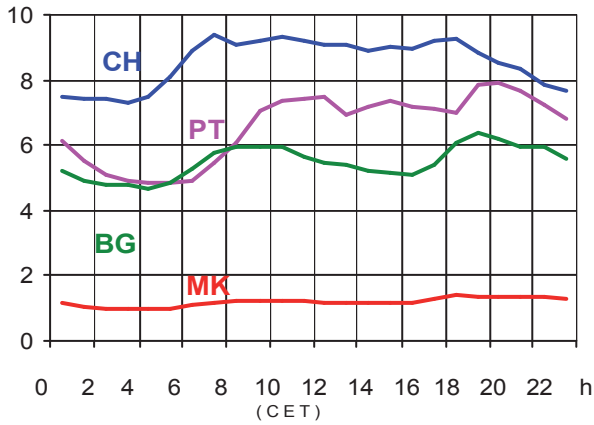

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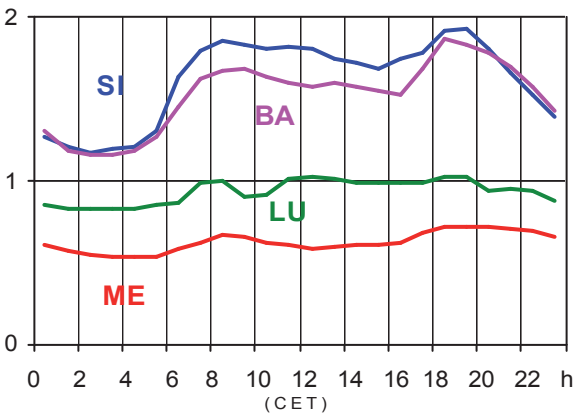
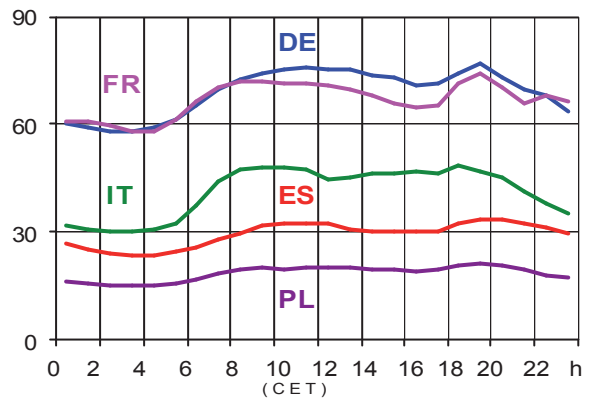


Load diagrams on the 3rd Wednesday in GW

19.03.2008 (in GW)



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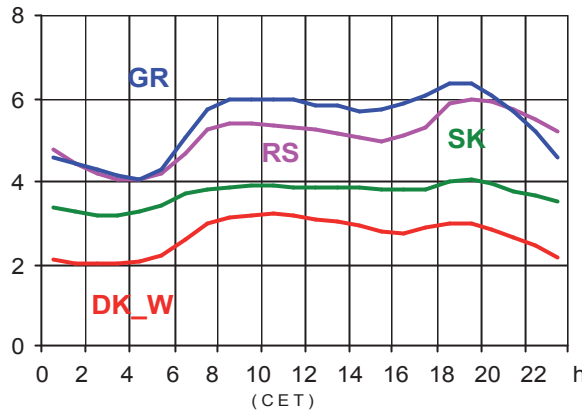

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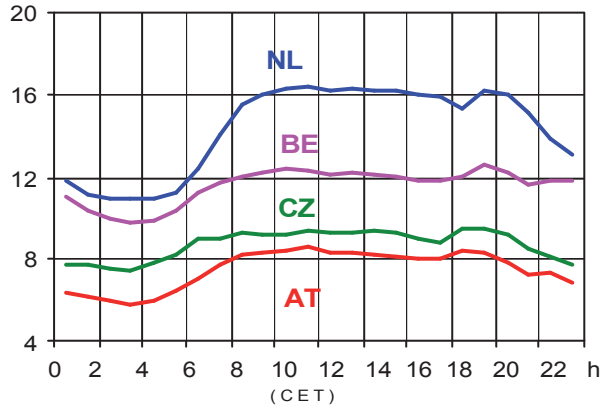

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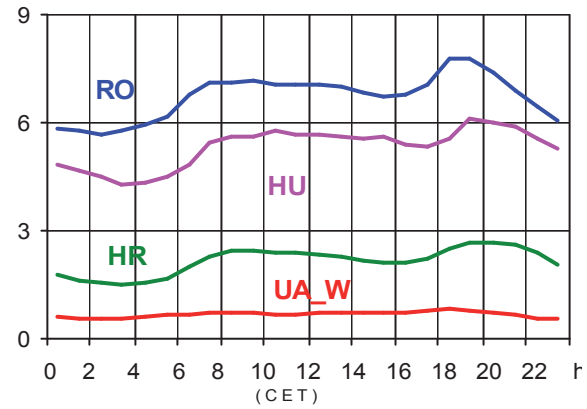

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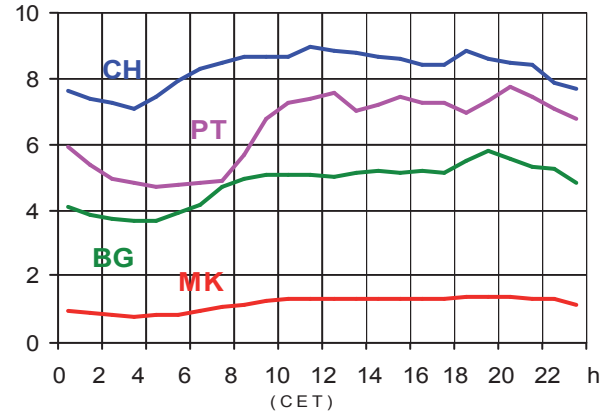

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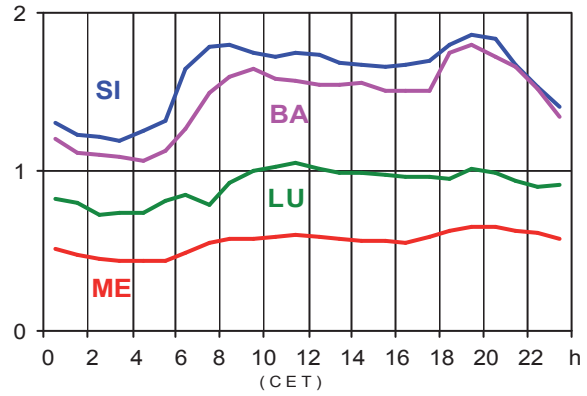

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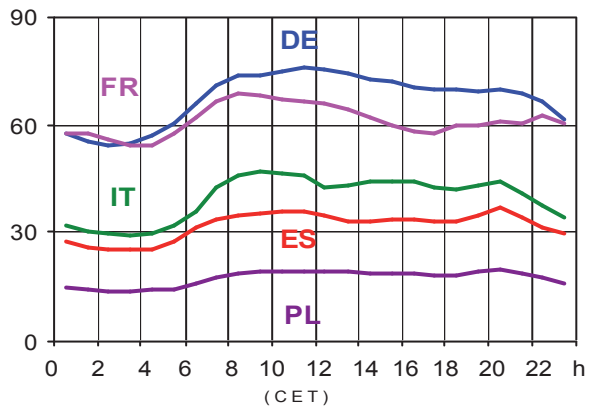

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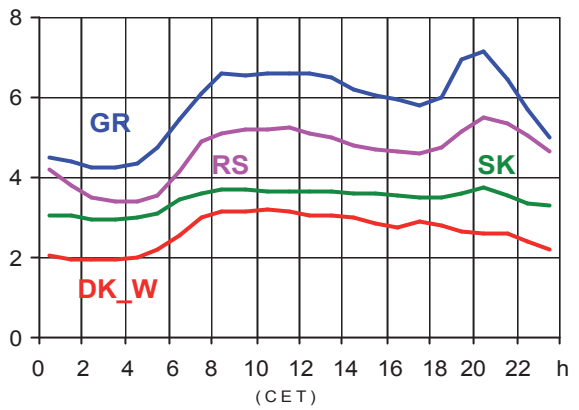

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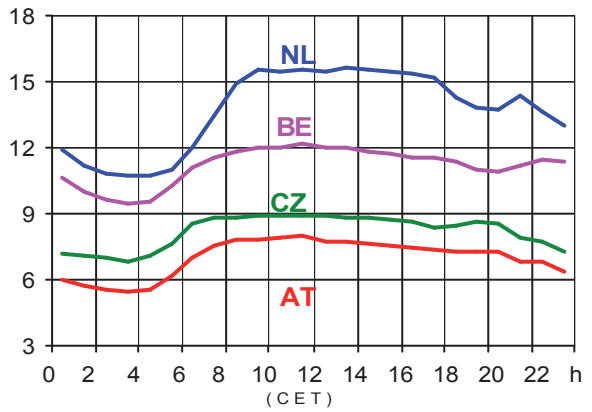

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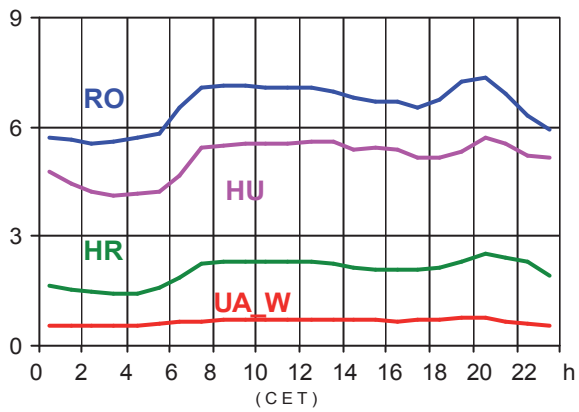

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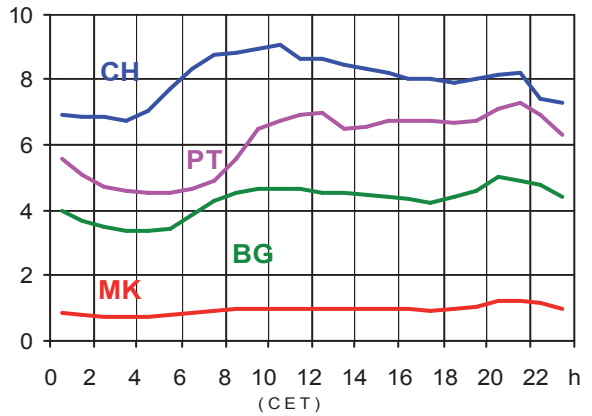

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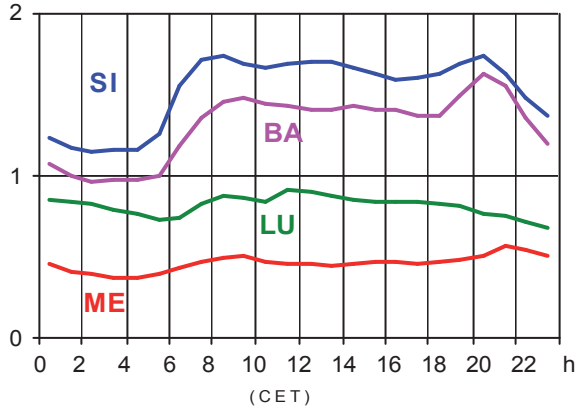
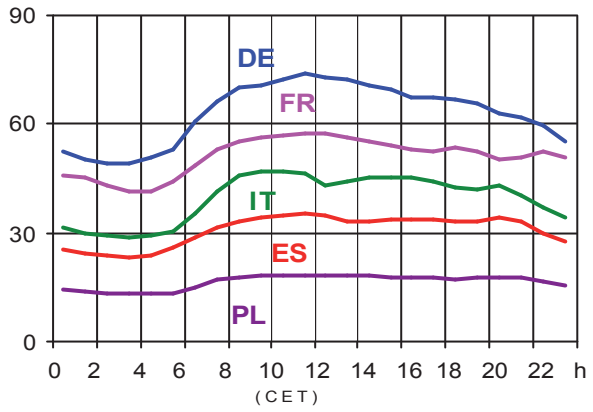


Load diagrams on the 3rd Wednesday in GW

21.05.2008 **(in GW)**



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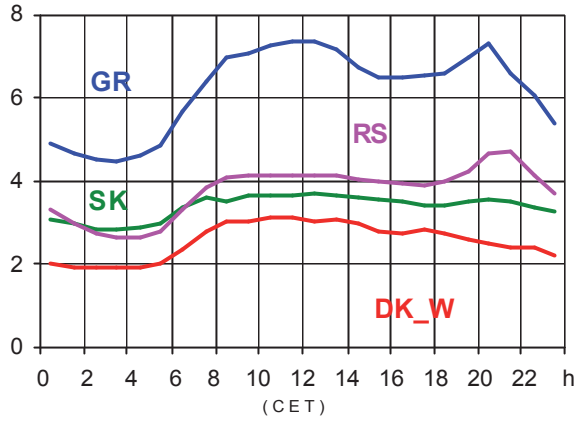

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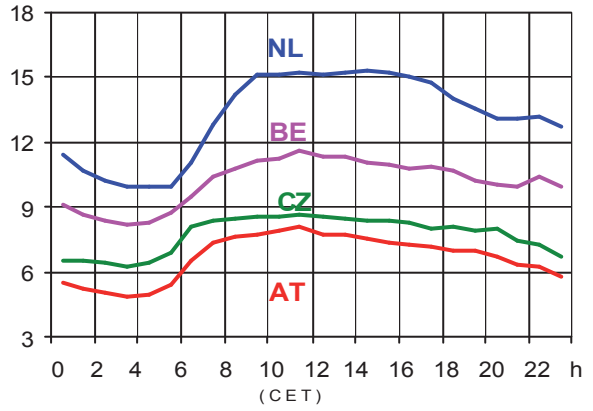

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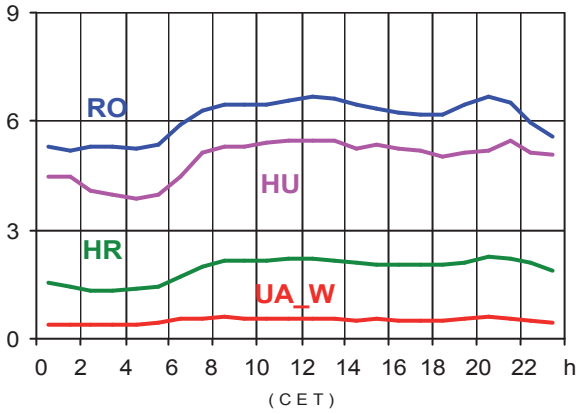

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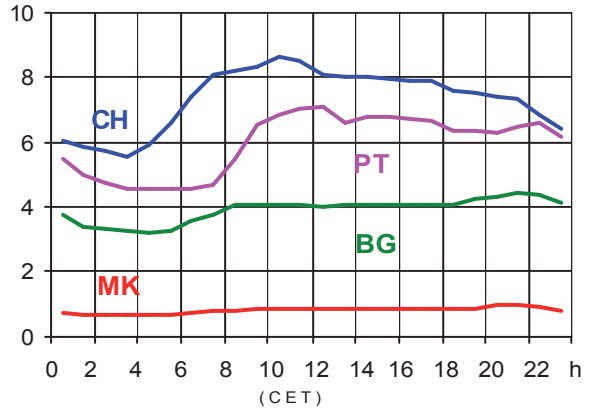

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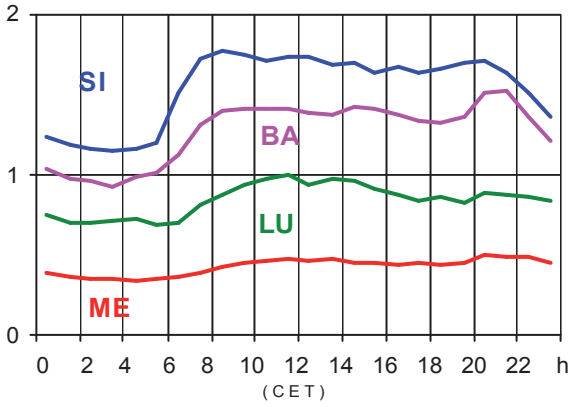

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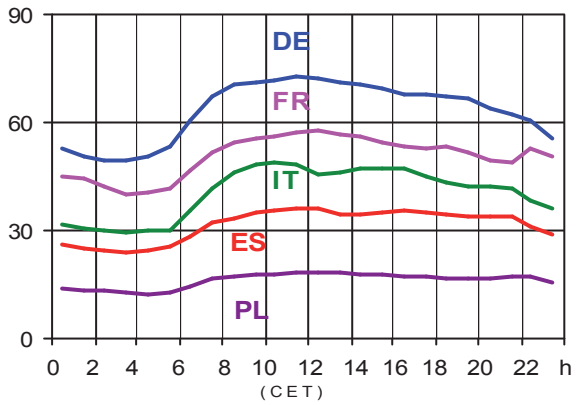

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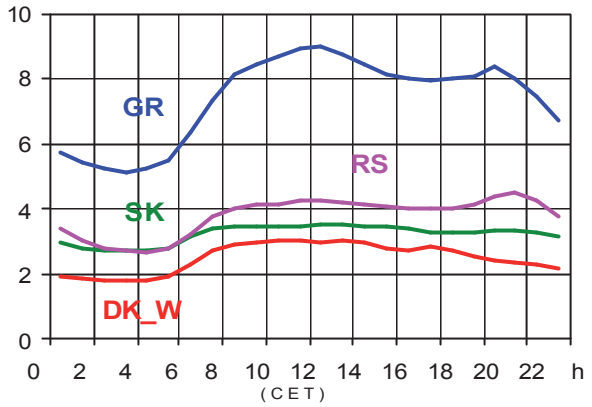

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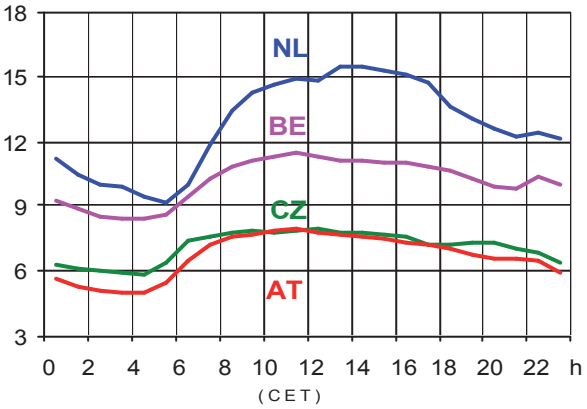

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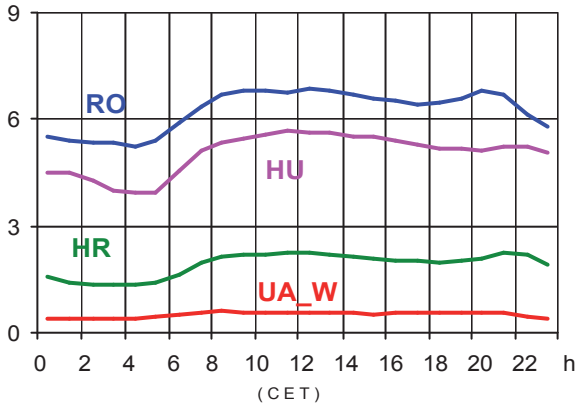

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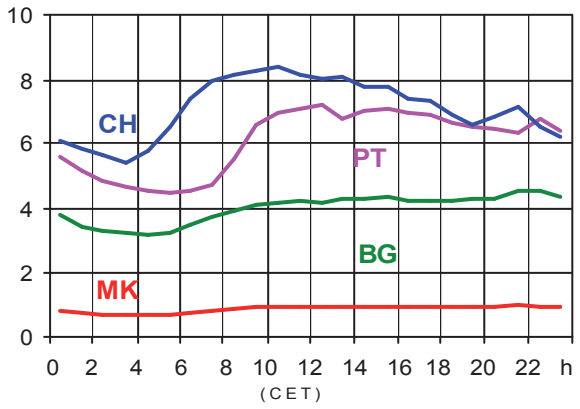

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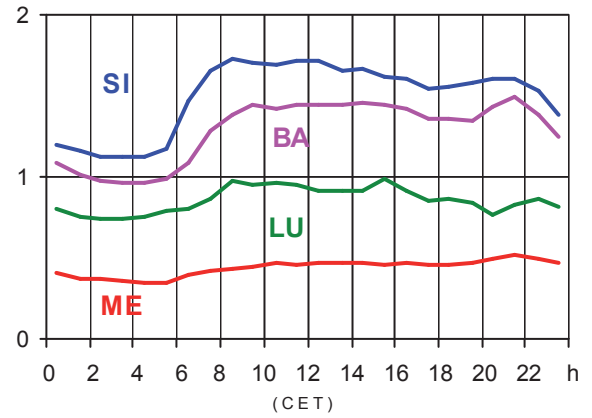
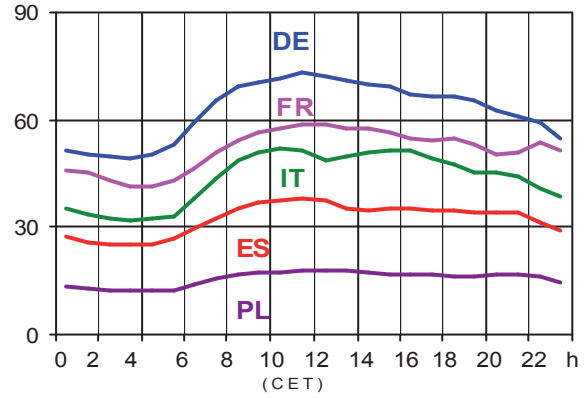


Load diagrams on the 3rd Wednesday in GW

16.07.2008 **(in GW)**



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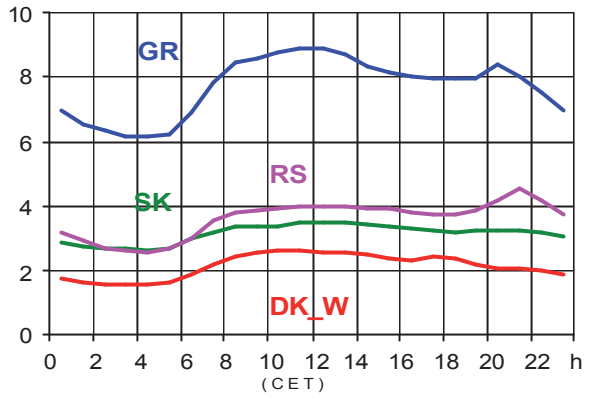

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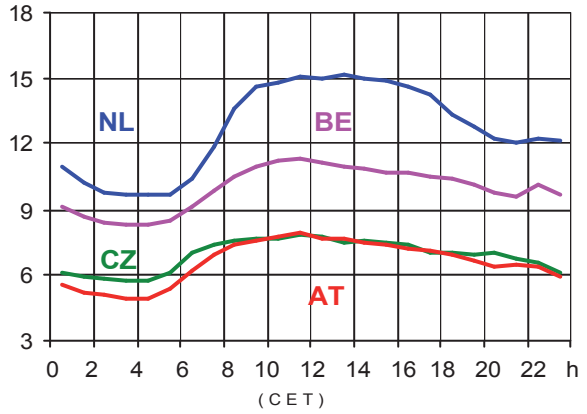

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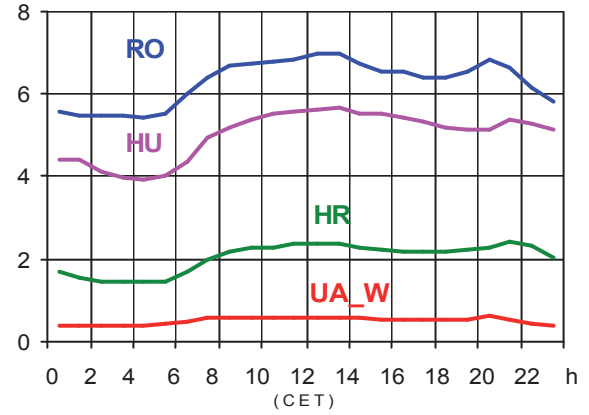

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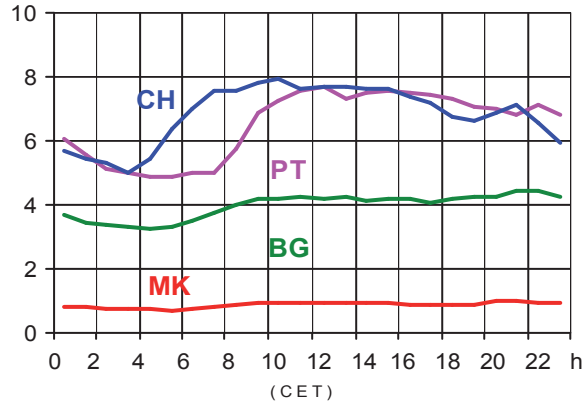

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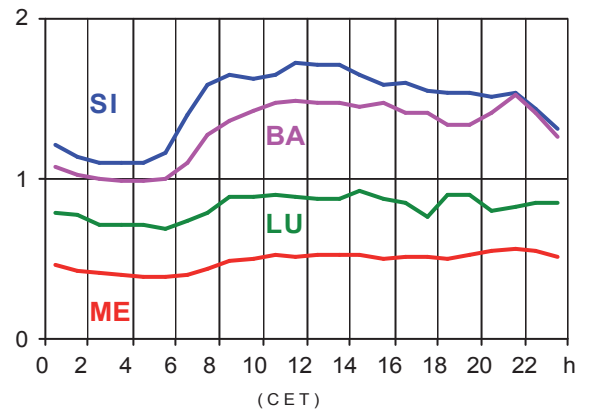

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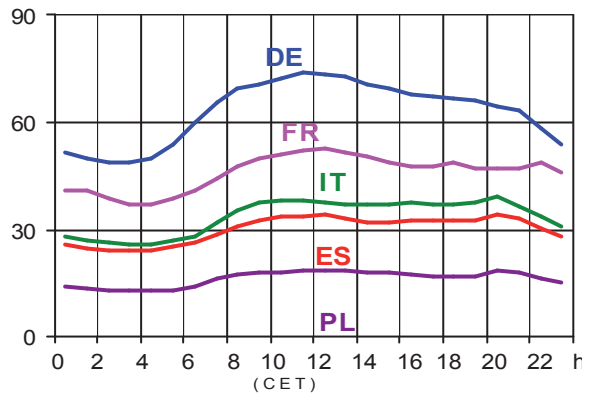

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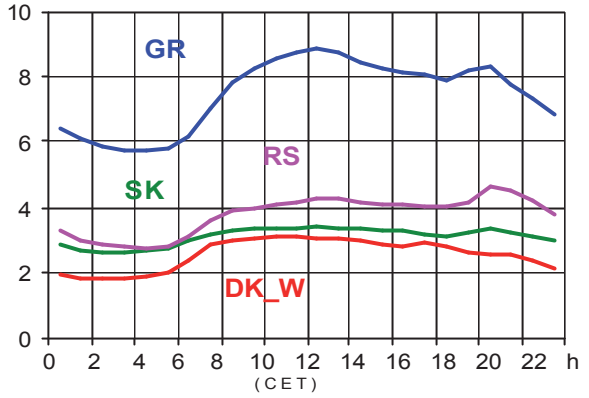

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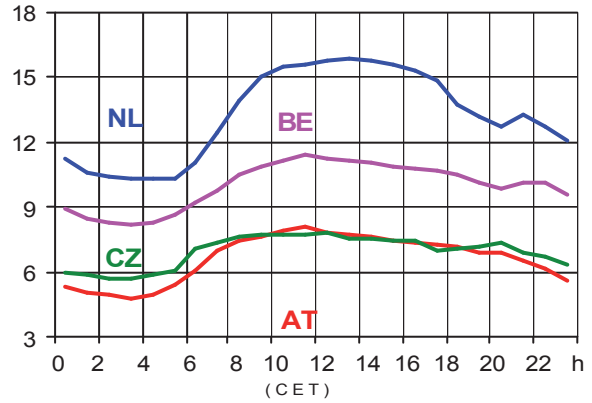

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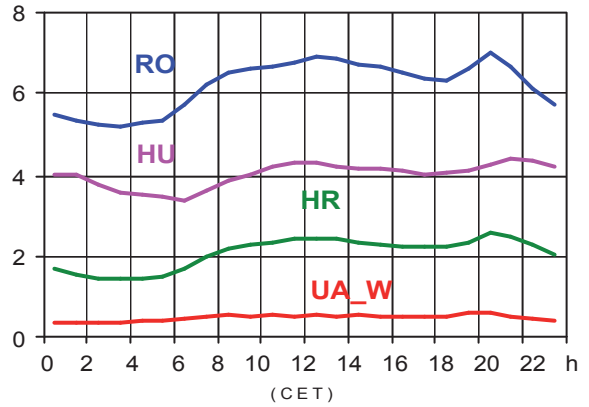

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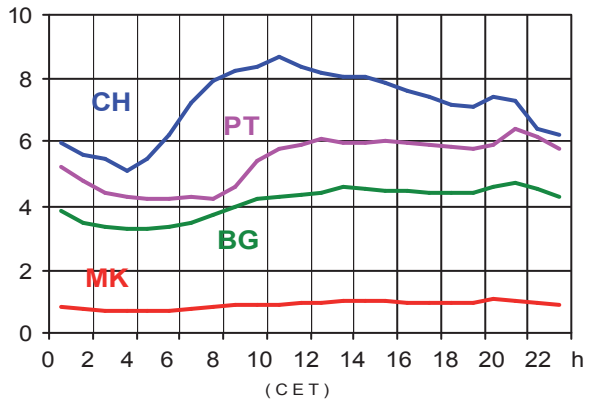

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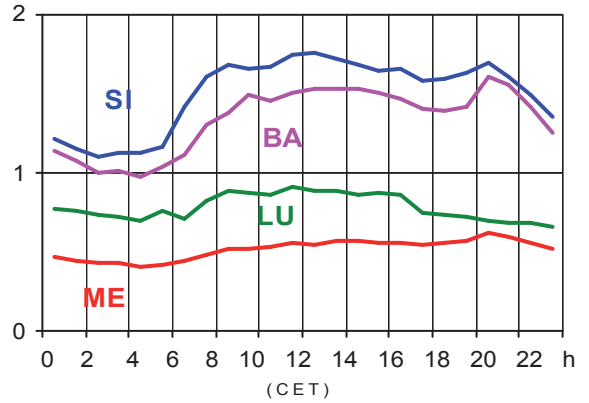
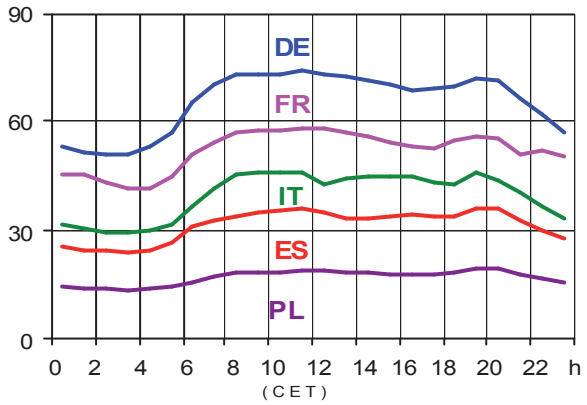


Load diagrams on the 3rd Wednesday in GW

17.09.2008 (in GW)



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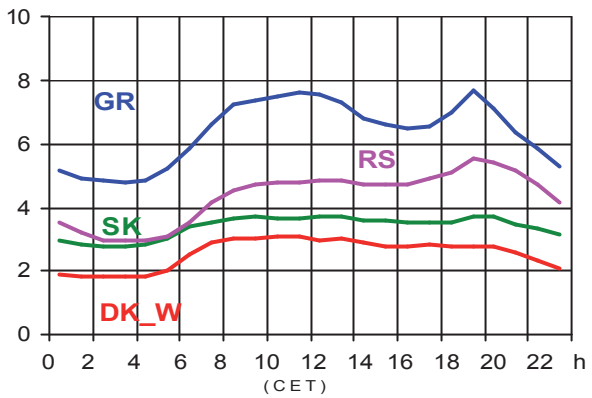

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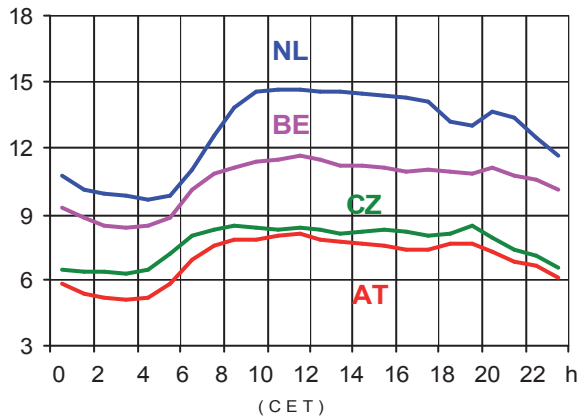

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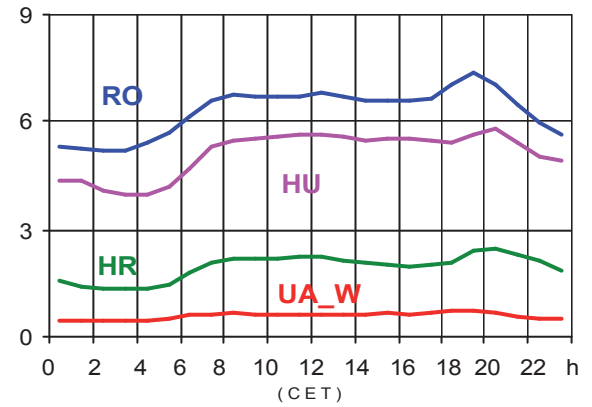

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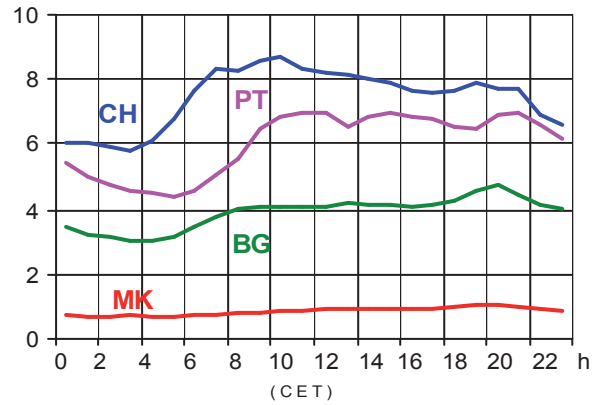

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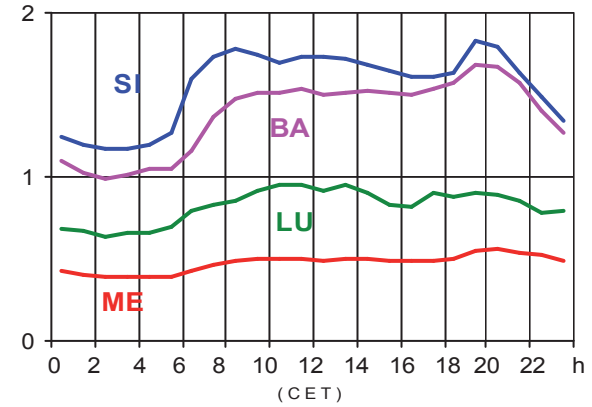
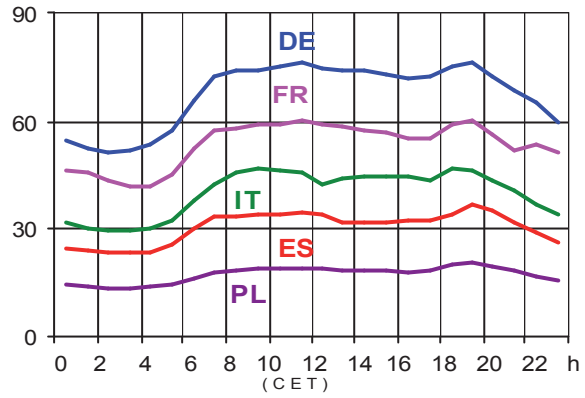
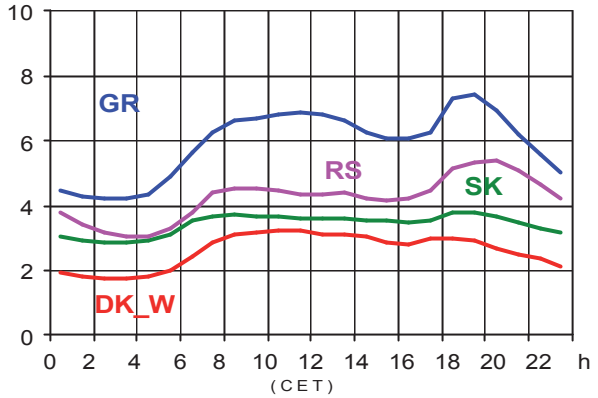


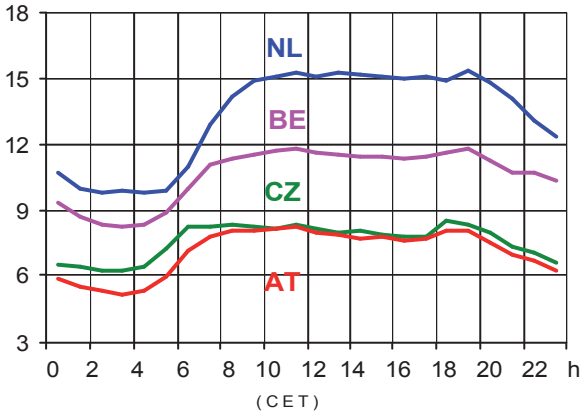
15.10.2008 **(in GW)**



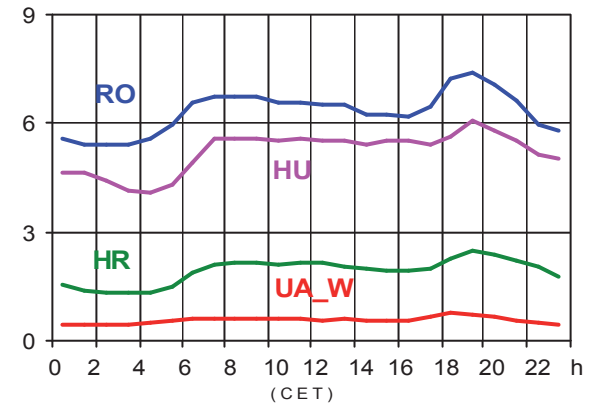
15.10.2008 **(in GW)**



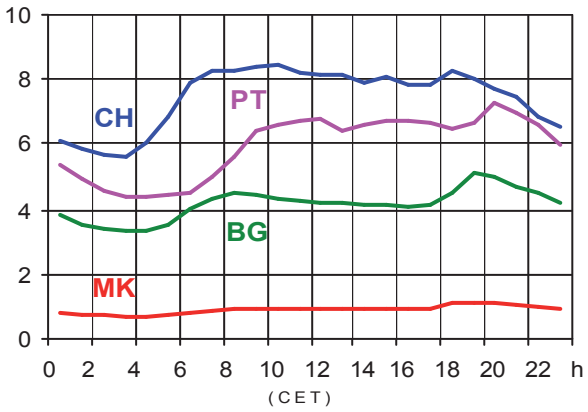
15.10.2008 **(in GW)**



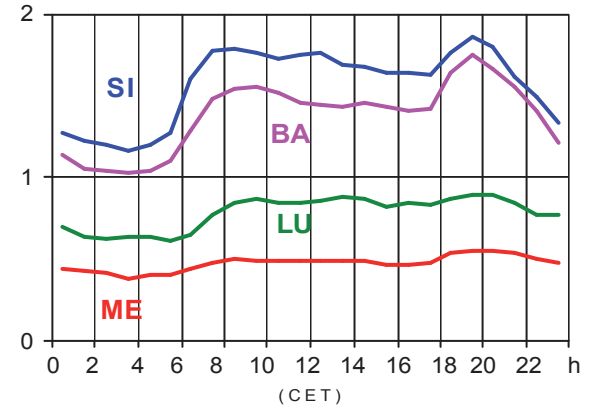
15.10.2008 **(in GW)**



15.10.2008 **(in GW)**

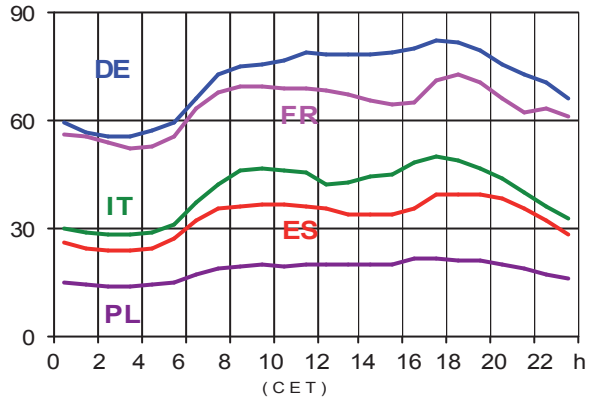


15.10.2008 **(in GW)**

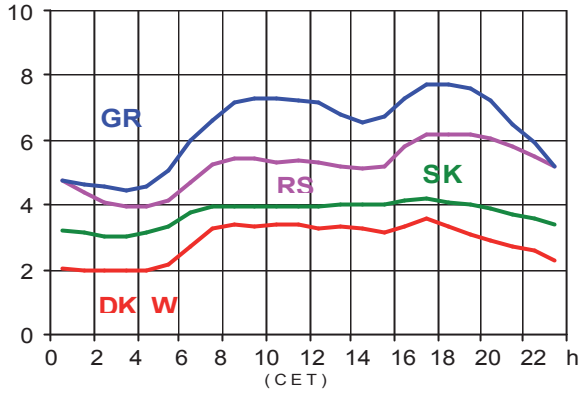


Load diagrams on the 3rd Wednesday in GW

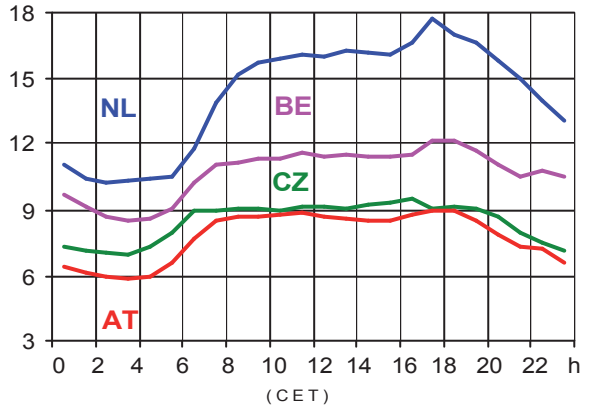
19.11.2008 **(in GW)**



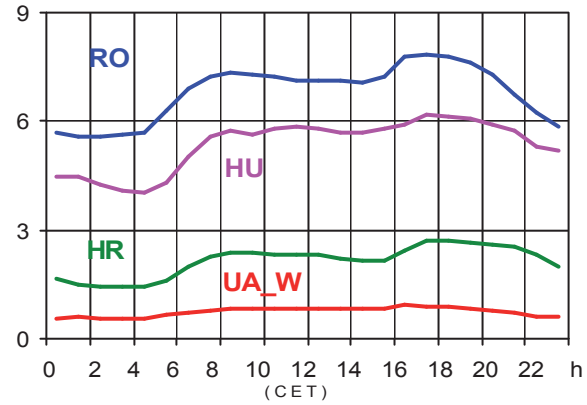
19.11.2008 **(in GW)**



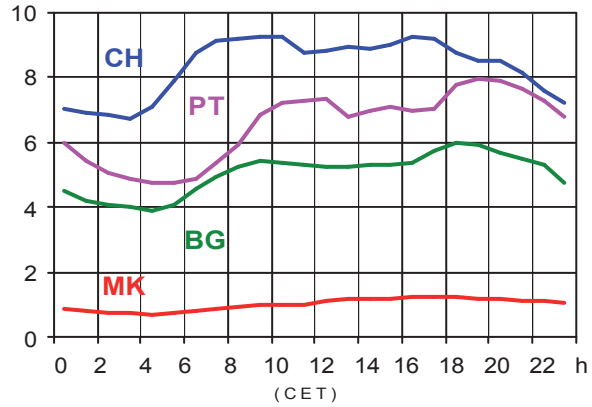
19.11.2008 **(in GW)**



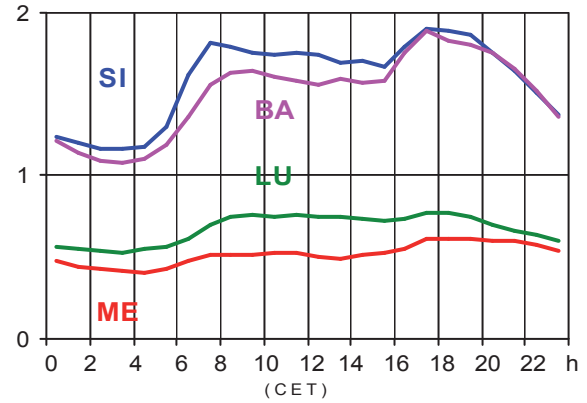
19.11.2008 **(in GW)**



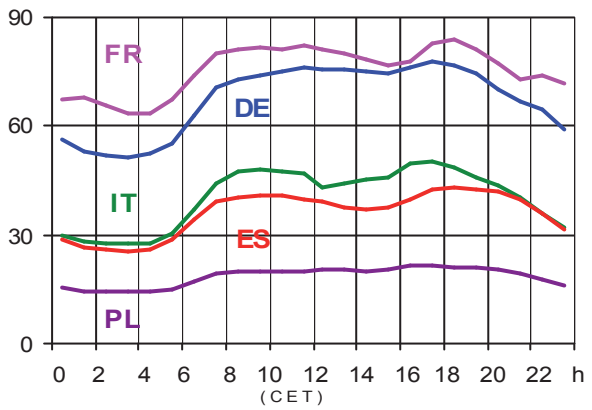
19.11.2008 **(in GW)**



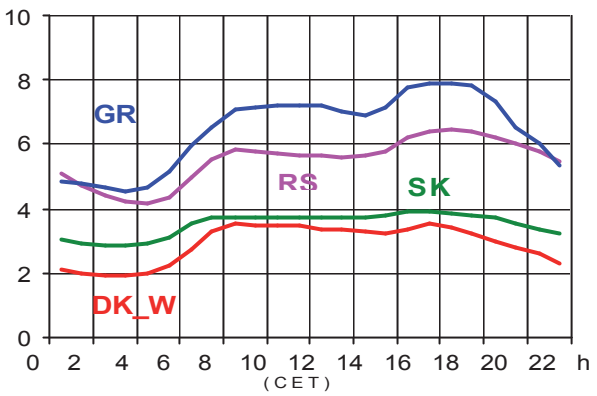
19.11.2008 **(in GW)**



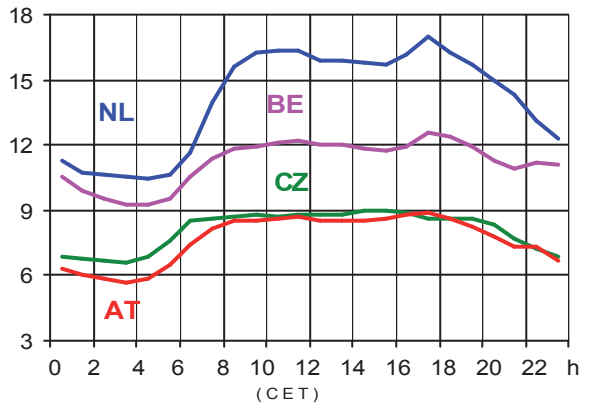
17.12.2008 (in GW)



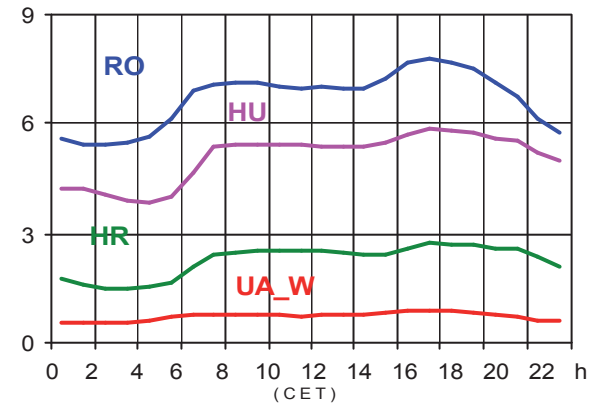
17.12.2008 (in GW)



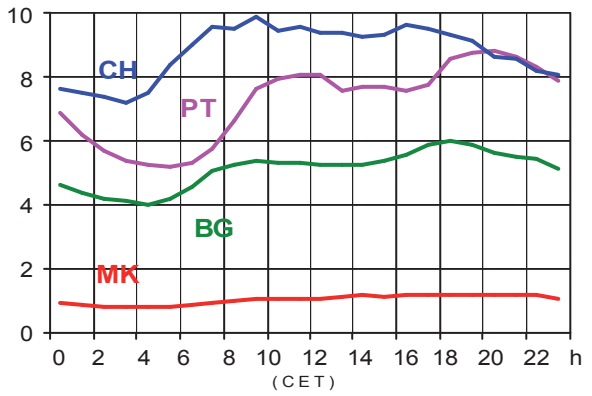
17.12.2008 (in GW)



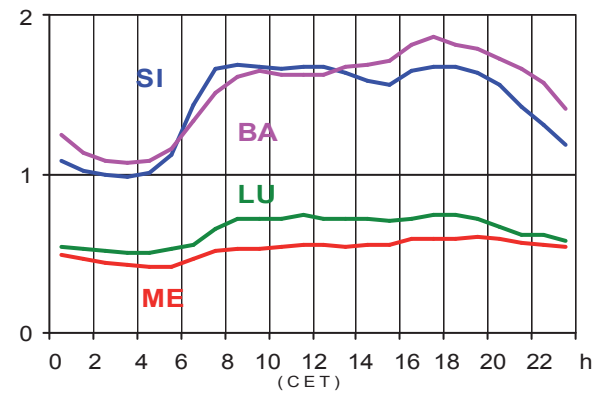
17.12.2008 (in GW)



17.12.2008 (in GW)

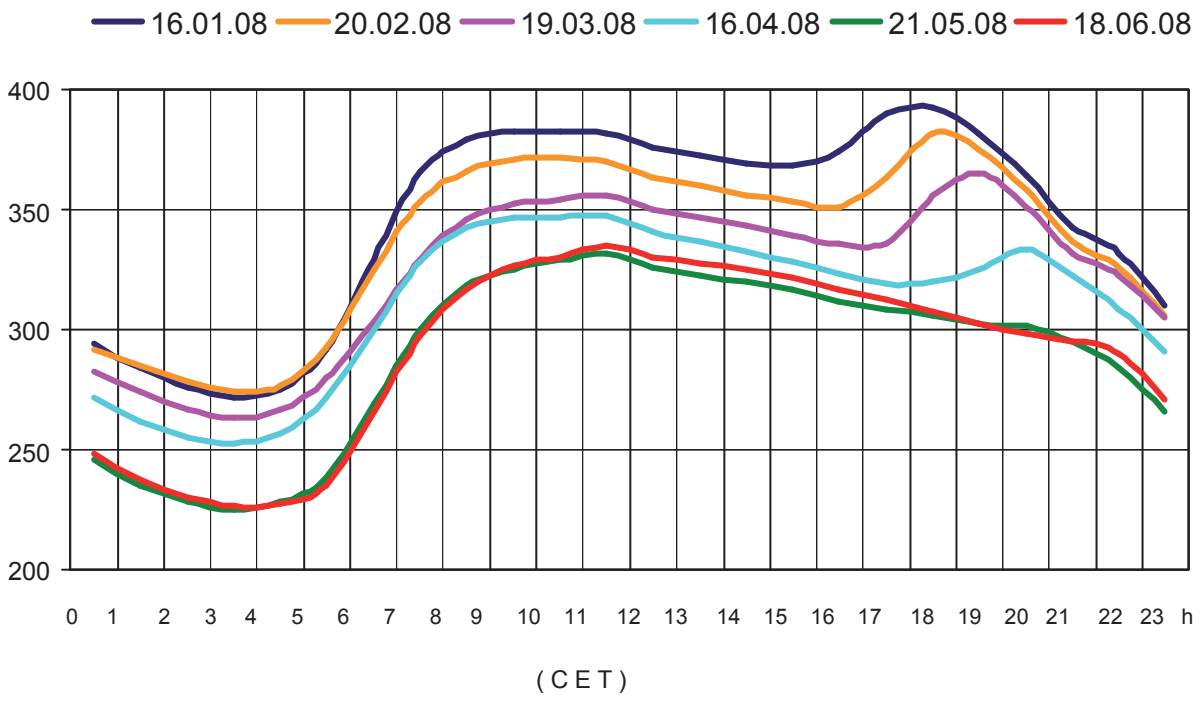


17.12.2008 (in GW)



Load diagrams on the 3rd Wednesday in GW

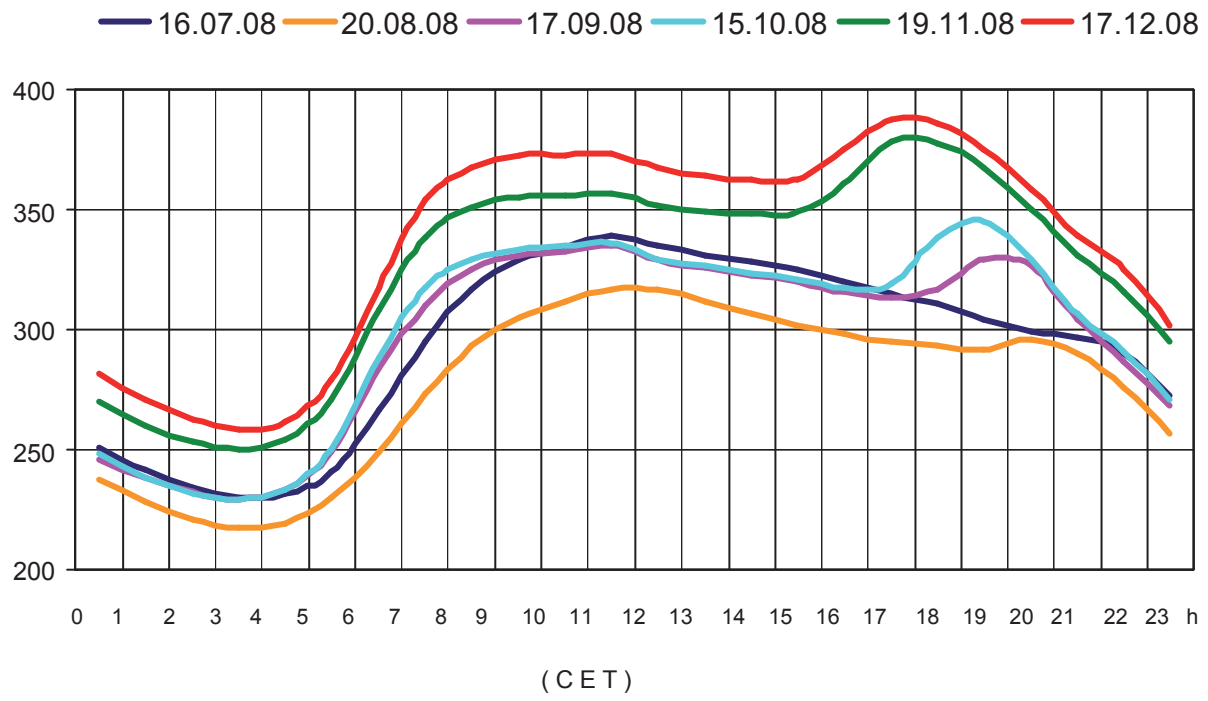
UCTE monthly load diagrams January - June 2008 in GW



Percentage as referred to total values (%)

	AT	BA	BE	BG	CH	CZ	DE	DK_W	ES	FR	GR	HR	HU	IT	LU	ME	MK	NL	PL	PT	RO	RS	SI	SK	UA_W
16.01.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100
20.02.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100
19.03.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100
16.04.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100
21.05.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100
18.06.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100

UCTE monthly load diagrams July - December 2008 in GW



Percentage as referred to total values (%)

	AT	BA	BE	BG	CH	CZ	DE	DK_W	ES	FR	GR	HR	HU	IT	LU	ME	MK	NL	PL	PT	RO	RS	SI	SK	UA_W
16.07.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100
20.08.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100
17.09.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100
15.10.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100
19.11.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100
17.12.08	100	100	100	100	100	100	91	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100

Hourly load values on the 3rd Wednesday in MW

Austria

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	6581	6288	6118	5912	6021	6594	7551	8531	8784	8808	8917
20 / 2 / 2008	6714	6475	6339	6173	6257	6752	7506	8052	8353	8430	8496
19 / 3 / 2008	6441	6175	5998	5836	5965	6465	7031	7770	8187	8329	8442
16 / 4 / 2008	6000	5712	5570	5438	5592	6156	7019	7615	7824	7852	7914
21 / 5 / 2008	5564	5243	5092	4922	5014	5499	6534	7368	7651	7740	7883
18 / 6 / 2008	5639	5290	5135	4981	5046	5453	6461	7197	7528	7666	7844
16 / 7 / 2008	5536	5212	5086	4912	4975	5365	6243	6981	7399	7592	7798
20 / 8 / 2008	5390	5124	4977	4789	4976	5470	6123	6994	7437	7641	7880
17 / 9 / 2008	5756	5382	5281	5133	5246	5831	6927	7522	7835	7860	8011
15 / 10 / 2008	5807	5503	5307	5151	5295	5954	7138	7830	8080	8034	8123
19 / 11 / 2008	6426	6124	6020	5857	5957	6574	7663	8471	8715	8665	8782
17 / 12 / 2008	6263	6005	5833	5707	5819	6477	7389	8212	8507	8556	8627

Bosnia - Herzegovina

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	1264	1166	1133	1110	1128	1196	1345	1530	1658	1649	1624
20 / 2 / 2008	1298	1190	1158	1163	1180	1259	1446	1615	1668	1676	1627
19 / 3 / 2008	1206	1113	1100	1083	1064	1133	1272	1485	1602	1641	1588
16 / 4 / 2008	1066	989	954	970	973	992	1183	1354	1460	1474	1447
21 / 5 / 2008	1028	972	955	929	976	1005	1118	1310	1401	1416	1409
18 / 6 / 2008	1088	1007	973	960	957	989	1090	1278	1386	1453	1417
16 / 7 / 2008	1067	1020	998	979	975	1000	1091	1271	1362	1431	1465
20 / 8 / 2008	1130	1065	993	1002	973	1029	1110	1298	1375	1479	1458
17 / 9 / 2008	1086	1013	985	1001	1046	1045	1152	1366	1477	1508	1504
15 / 10 / 2008	1140	1055	1033	1020	1032	1098	1286	1474	1534	1555	1510
19 / 11 / 2008	1206	1138	1088	1078	1095	1189	1360	1552	1633	1640	1601
17 / 12 / 2008	1240	1138	1091	1069	1085	1160	1338	1512	1607	1646	1622

Belgium

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	10930	10413	10078	9839	9932	10374	11455	12336	12753	12628	12490
20 / 2 / 2008	11272	10747	10306	10077	10051	10562	11604	12391	12417	12596	12478
19 / 3 / 2008	11097	10334	9908	9765	9803	10288	11293	11785	12020	12259	12390
16 / 4 / 2008	10619	10053	9712	9497	9626	10180	11009	11529	11768	11990	11998
21 / 5 / 2008	9063	8645	8330	8218	8296	8705	9458	10424	10860	11224	11301
18 / 6 / 2008	9236	8831	8525	8359	8365	8575	9387	10276	10826	11138	11340
16 / 7 / 2008	9173	8707	8409	8306	8320	8545	9199	9869	10440	10901	11154
20 / 8 / 2008	8884	8489	8293	8209	8286	8661	9169	9788	10509	10909	11198
17 / 9 / 2008	9326	8842	8517	8425	8512	8912	10046	10854	11092	11390	11457
15 / 10 / 2008	9338	8703	8317	8245	8365	8870	9991	11094	11350	11556	11757
19 / 11 / 2008	9726	9157	8667	8537	8572	9058	10202	11054	11152	11281	11318
17 / 12 / 2008	10507	9861	9494	9284	9214	9553	10509	11427	11860	11922	12064

Austria

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
8978	8669	8683	8641	8644	8837	9149	9010	8574	8013	7427	7479	6947
8562	8279	8179	8006	7881	7816	8273	8687	8331	7811	7350	7510	7009
8586	8337	8272	8222	8125	8060	8068	8435	8352	7785	7289	7380	6863
8039	7798	7748	7666	7575	7459	7378	7310	7254	7324	6834	6871	6401
8060	7769	7687	7549	7398	7237	7163	7040	6991	6762	6402	6302	5827
7961	7749	7680	7582	7458	7318	7206	7057	6793	6606	6550	6493	5964
7975	7727	7653	7527	7407	7257	7134	6949	6657	6392	6514	6385	5910
8108	7810	7726	7591	7488	7340	7265	7181	6953	6898	6501	6213	5640
8149	7868	7786	7638	7537	7414	7381	7622	7664	7318	6859	6679	6111
8208	7940	7853	7737	7747	7640	7671	8068	8029	7476	6940	6725	6177
8880	8654	8611	8536	8501	8822	8997	8951	8481	7923	7361	7242	6659
8696	8534	8513	8536	8606	8783	8868	8661	8271	7764	7288	7269	6690

Bosnia - Herzegovina

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
1601	1590	1621	1614	1594	1655	1780	1793	1766	1673	1572	1474	1352
1589	1562	1587	1570	1536	1531	1687	1855	1839	1788	1697	1566	1422
1572	1541	1554	1562	1496	1502	1501	1738	1793	1724	1659	1513	1344
1433	1404	1403	1436	1415	1404	1376	1368	1485	1617	1549	1362	1198
1413	1392	1382	1428	1415	1377	1335	1326	1358	1502	1510	1358	1215
1444	1445	1448	1456	1450	1419	1363	1356	1351	1433	1502	1391	1238
1479	1465	1466	1446	1465	1418	1414	1342	1340	1418	1517	1419	1257
1494	1522	1527	1524	1497	1467	1411	1395	1424	1597	1549	1416	1250
1535	1491	1514	1527	1509	1498	1528	1576	1682	1665	1568	1395	1265
1467	1456	1432	1458	1434	1413	1431	1642	1753	1668	1551	1411	1216
1584	1554	1592	1574	1585	1754	1894	1824	1803	1755	1651	1524	1353
1620	1621	1680	1699	1715	1814	1865	1816	1789	1729	1666	1577	1419

Belgium

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
12724	12569	12640	12597	12607	12554	13201	13300	12895	12249	11622	12036	11914
12620	12379	12310	12209	12127	11957	12090	12786	12847	12322	11759	12118	11987
12355	12170	12192	12141	12053	11825	11841	12022	12654	12227	11627	11832	11827
12123	11954	11950	11794	11721	11542	11485	11296	10994	10899	11185	11422	11346
11670	11408	11319	11081	11002	10836	10872	10692	10289	10097	9976	10431	9991
11519	11340	11177	11176	11087	11004	10887	10673	10304	9983	9839	10396	10027
11282	11132	10948	10817	10664	10594	10480	10365	10091	9798	9648	10122	9699
11477	11290	11163	11104	10920	10789	10699	10507	10177	9908	10163	10206	9615
11707	11468	11242	11207	11099	10956	10974	10886	10816	11141	10750	10564	10107
11869	11683	11542	11478	11427	11347	11490	11623	11841	11294	10705	10753	10396
11610	11415	11527	11369	11436	11488	12153	12096	11644	11081	10480	10772	10523
12211	12053	11997	11815	11776	11908	12561	12403	11970	11327	10827	11203	11118

Hourly load values on the 3rd Wednesday in MW

Bulgaria

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	5635	5216	4972	4949	4903	5006	5426	5862	6226	6385	6358
20 / 2 / 2008	5245	4913	4811	4794	4715	4874	5291	5787	5980	5963	5950
19 / 3 / 2008	4098	3851	3725	3673	3690	3924	4192	4724	4969	5068	5096
16 / 4 / 2008	3982	3638	3491	3350	3377	3436	3849	4307	4565	4642	4646
21 / 5 / 2008	3736	3390	3282	3233	3215	3259	3544	3765	4045	4070	4051
18 / 6 / 2008	3808	3416	3311	3253	3171	3245	3477	3754	3927	4134	4191
16 / 7 / 2008	3733	3476	3393	3306	3265	3357	3510	3761	4028	4185	4229
20 / 8 / 2008	3852	3505	3331	3266	3277	3324	3478	3726	3997	4227	4302
17 / 9 / 2008	3501	3239	3163	3040	3049	3193	3503	3788	4030	4072	4118
15 / 10 / 2008	3862	3564	3444	3364	3370	3510	4007	4344	4512	4479	4378
19 / 11 / 2008	4552	4211	4060	4009	3881	4089	4632	4971	5281	5438	5368
17 / 12 / 2008	4642	4350	4209	4103	4024	4154	4599	5065	5289	5399	5347

Switzerland

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	7377	7248	7173	7018	7344	7830	8686	9464	9485	9592	9610
20 / 2 / 2008	7509	7470	7468	7320	7519	8120	8925	9408	9101	9225	9348
19 / 3 / 2008	7647	7425	7312	7137	7459	7904	8281	8484	8649	8638	8655
16 / 4 / 2008	6962	6878	6869	6754	7099	7757	8307	8740	8810	8920	9071
21 / 5 / 2008	6076	5848	5737	5578	5908	6603	7451	8042	8165	8323	8623
18 / 6 / 2008	6070	5858	5618	5370	5747	6517	7365	7994	8135	8296	8416
16 / 7 / 2008	5633	5395	5273	4947	5410	6374	6967	7527	7563	7779	7943
20 / 8 / 2008	5941	5588	5488	5121	5449	6224	7212	7936	8245	8372	8669
17 / 9 / 2008	5998	6039	5901	5771	6065	6788	7649	8328	8245	8556	8714
15 / 10 / 2008	6103	5853	5661	5578	6048	6827	7883	8272	8262	8415	8458
19 / 11 / 2008	7029	6894	6854	6742	7101	7897	8761	9136	9219	9254	9268
17 / 12 / 2008	7640	7513	7404	7184	7542	8428	9034	9554	9500	9858	9483

Czech Republic

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	7867	7704	7702	7658	7864	8419	9413	9339	9559	9519	9615
20 / 2 / 2008	8016	7962	7952	7860	8093	8614	9267	9298	9524	9511	9399
19 / 3 / 2008	7745	7745	7550	7475	7814	8171	8987	8993	9224	9180	9210
16 / 4 / 2008	7222	7073	6998	6872	7086	7674	8607	8878	8878	8904	8944
21 / 5 / 2008	6582	6515	6467	6281	6444	6944	8076	8352	8456	8568	8531
18 / 6 / 2008	6257	6120	6045	5965	5863	6404	7382	7580	7791	7874	7777
16 / 7 / 2008	6106	5943	5870	5721	5722	6093	7037	7394	7628	7727	7687
20 / 8 / 2008	6043	5898	5767	5701	5882	6047	7079	7370	7676	7734	7682
17 / 9 / 2008	6482	6372	6337	6236	6446	7168	8044	8322	8499	8421	8275
15 / 10 / 2008	6532	6375	6206	6198	6450	7193	8265	8213	8330	8226	8148
19 / 11 / 2008	7297	7112	7048	6993	7322	7983	8936	8982	9096	9084	9006
17 / 12 / 2008	6839	6769	6646	6615	6827	7527	8538	8593	8693	8814	8696

Bulgaria

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
6318	6206	6134	6077	6117	6150	6379	6730	6771	6521	6195	6220	5923
5611	5429	5350	5284	5163	5107	5365	6101	6408	6196	5960	5926	5595
5113	5050	5137	5194	5139	5193	5178	5526	5829	5597	5316	5246	4851
4648	4521	4524	4461	4387	4327	4217	4397	4595	5009	4922	4780	4434
4053	4004	4084	4050	4086	4063	4062	4062	4248	4337	4467	4399	4108
4206	4169	4323	4281	4360	4207	4222	4209	4294	4295	4560	4545	4335
4252	4226	4273	4165	4209	4201	4112	4218	4252	4287	4446	4459	4247
4368	4401	4566	4504	4500	4485	4380	4410	4414	4588	4708	4507	4281
4088	4109	4217	4183	4170	4098	4133	4289	4624	4691	4445	4177	4050
4265	4215	4235	4138	4188	4114	4148	4515	5105	4983	4671	4542	4211
5326	5245	5278	5305	5320	5420	5765	6014	5938	5717	5502	5343	4812
5354	5260	5300	5271	5391	5595	5891	5971	5885	5650	5530	5458	5125

Switzerland

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
9298	9232	9334	9296	9222	9234	9255	9229	8938	8761	8597	8014	7709
9215	9111	9104	8946	9049	8974	9225	9288	8847	8546	8324	7848	7652
8948	8830	8777	8650	8594	8428	8387	8845	8563	8484	8383	7878	7711
8655	8663	8467	8314	8209	7997	8032	7886	7982	8135	8208	7457	7304
8481	8068	7982	8012	7966	7863	7904	7642	7550	7453	7368	6863	6439
8171	8008	8106	7799	7811	7333	7271	6868	6588	6817	7109	6518	6173
7635	7648	7698	7620	7623	7344	7200	6754	6594	6835	7083	6529	5903
8408	8175	8084	8055	7895	7609	7381	7132	7059	7400	7254	6378	6200
8324	8169	8160	8040	7890	7626	7557	7650	7886	7712	7726	6918	6587
8198	8130	8154	7917	8053	7814	7852	8258	8006	7681	7433	6859	6502
8805	8861	8961	8893	9024	9274	9182	8792	8468	8496	8098	7565	7207
9569	9384	9367	9298	9337	9614	9527	9334	9136	8695	8615	8200	8036

Czech Republic

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
9804	9718	9666	9794	9620	9790	9389	9401	9409	9089	8526	8168	7725
9497	9286	9121	9137	8989	8946	9368	9486	9470	9176	8513	8132	7842
9386	9308	9307	9367	9224	8976	8815	9493	9425	9133	8516	8133	7768
8969	8927	8840	8836	8795	8690	8424	8509	8633	8577	7896	7724	7268
8674	8563	8412	8386	8380	8261	7995	8055	7924	7967	7440	7259	6721
7878	7939	7724	7727	7687	7579	7200	7236	7314	7263	7031	6815	6367
7884	7757	7538	7563	7495	7406	7031	7042	6991	7059	6781	6573	6135
7761	7820	7566	7584	7471	7440	6975	7046	7154	7381	6911	6699	6333
8402	8298	8170	8221	8299	8188	7987	8159	8526	7952	7361	7072	6515
8306	8162	7964	8018	7886	7763	7786	8540	8311	7967	7363	7042	6583
9145	9181	9059	9217	9325	9472	9035	9104	9053	8652	8005	7516	7160
8820	8778	8793	8960	9005	8917	8590	8595	8593	8320	7670	7192	6839

Hourly load values on the 3rd Wednesday in MW

Germany

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	62205	59554	58504	58834	60043	62293	69681	77102	79658	79235	79864
20 / 2 / 2008	61423	59794	59061	59376	60551	62416	69123	74395	76279	76358	76884
19 / 3 / 2008	60138	58784	57753	57674	59074	61410	65102	69460	72565	73760	75190
16 / 4 / 2008	57746	55291	54360	55057	56802	60280	65876	71010	73294	73480	74627
21 / 5 / 2008	52154	49891	48980	49010	50370	53004	60469	66315	70186	70721	72076
18 / 6 / 2008	52425	50387	49407	49416	50420	53203	60558	66910	70137	70586	71523
16 / 7 / 2008	51336	50315	49336	49172	50198	52734	59452	65318	68843	69880	71227
20 / 8 / 2008	51625	49971	48684	48768	49803	53567	60172	65649	69387	70721	72350
17 / 9 / 2008	53502	51680	50887	51308	53007	56956	65528	70352	72948	72825	73189
15 / 10 / 2008	54372	52157	51179	51513	53206	57038	65546	72265	74150	74349	75276
19 / 11 / 2008	59286	56887	55893	55734	57394	59217	65920	72870	74893	75524	76789
17 / 12 / 2008	56227	52432	51252	51160	51993	55273	63056	70413	72546	73784	74967

Denmark West

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	2202	2119	2083	2086	2132	2317	2783	3389	3564	3489	3508
20 / 2 / 2008	2128	2047	2015	2023	2075	2241	2720	3199	3314	3278	3319
19 / 3 / 2008	2123	2047	2021	2030	2079	2244	2546	2945	3131	3161	3204
16 / 4 / 2008	2031	1964	1958	1962	2025	2198	2567	3019	3158	3145	3205
21 / 5 / 2008	2012	1921	1894	1890	1910	2012	2371	2818	3000	3012	3089
18 / 6 / 2008	1956	1867	1844	1832	1823	1936	2294	2747	2933	2968	3048
16 / 7 / 2008	1721	1628	1580	1558	1554	1612	1882	2230	2457	2563	2627
20 / 8 / 2008	1913	1832	1825	1828	1872	2014	2359	2840	3032	3060	3157
17 / 9 / 2008	1912	1845	1819	1823	1863	2044	2517	2919	3047	3045	3105
15 / 10 / 2008	1919	1820	1775	1766	1812	1998	2409	2907	3111	3170	3254
19 / 11 / 2008	2049	1996	1967	1962	2003	2164	2698	3304	3392	3358	3408
17 / 12 / 2008	2080	1993	1957	1955	2008	2201	2731	3320	3531	3482	3508

Spain

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	30690	28932	27775	27234	27328	29705	34106	38898	39713	40819	40591
20 / 2 / 2008	29650	27872	26842	26291	26397	28923	33109	36486	37967	38664	38543
19 / 3 / 2008	26806	24979	24202	23700	23684	24688	25745	27788	29694	31661	31944
16 / 4 / 2008	27479	26060	25353	25087	25288	27579	31275	33526	34544	35392	35484
21 / 5 / 2008	25460	24289	23786	23544	23896	25788	28694	31697	33248	34403	34962
18 / 6 / 2008	26367	24934	24462	24330	24581	25972	28594	31985	33409	34753	35412
16 / 7 / 2008	27382	25837	25304	25166	25314	27152	29479	32564	34762	36469	37088
20 / 8 / 2008	26041	24720	23962	23625	23857	25273	26797	28785	30923	32508	33392
17 / 9 / 2008	25341	24568	24243	24172	24502	26892	30691	33058	34091	35068	35793
15 / 10 / 2008	24565	23515	23116	22913	23215	25667	30180	33208	33500	34039	34214
19 / 11 / 2008	26283	24695	24110	23955	24467	27125	32216	35413	35930	36528	36505
17 / 12 / 2008	28629	26572	25756	25491	26082	28739	34069	39098	40151	40871	40680

Germany

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
80895	79796	78579	77186	76623	76782	80980	81004	78761	73979	70986	68683	63535
77685	76960	76548	76019	75345	74563	76950	80471	78574	74151	70887	68710	63821
76204	75353	74773	73657	72640	70935	71069	73841	76982	72949	69679	67985	63669
75656	74930	74275	72705	72038	70463	69727	69529	69380	69638	68743	66174	61702
73502	72574	71864	70481	69243	67448	67010	66768	65476	62998	61839	59539	55381
72958	72112	71323	70245	68854	67357	67243	66930	66232	63905	62081	60425	55819
72800	71901	70852	69690	68771	66908	66446	66169	65143	62518	60775	59059	54530
74231	73298	72409	70725	69169	67714	67091	66563	66054	64694	63468	58691	53683
74224	73034	72459	71378	70245	68873	68972	69880	71770	71302	66683	62197	57247
76439	75165	74368	73596	72914	71626	72442	75505	76648	72149	68227	65143	59930
78504	78296	78454	78424	78483	79629	82231	81482	79263	75447	73053	70406	65916
75729	75498	75174	74720	74435	76081	77472	76526	74025	69743	66474	64775	59092

Denmark West

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
3451	3368	3406	3382	3322	3413	3664	3477	3266	3033	2854	2615	2332
3288	3187	3226	3168	3018	3000	3277	3351	3146	2948	2760	2532	2293
3161	3044	3037	2937	2788	2727	2858	2940	2977	2801	2613	2396	2179
3173	3050	3075	3003	2842	2773	2887	2781	2655	2617	2620	2423	2193
3082	2997	3028	2958	2806	2740	2854	2737	2592	2477	2398	2382	2204
3049	2978	3009	2947	2809	2746	2833	2719	2558	2442	2350	2293	2156
2624	2562	2554	2501	2403	2358	2458	2394	2238	2107	2016	2000	1867
3139	3057	3082	3008	2844	2780	2894	2764	2617	2514	2523	2342	2091
3082	2992	3010	2939	2809	2751	2878	2773	2714	2712	2549	2331	2092
3231	3125	3134	3047	2903	2851	2993	3025	2923	2729	2551	2359	2133
3384	3270	3351	3295	3202	3344	3580	3367	3137	2945	2772	2560	2295
3486	3367	3392	3329	3238	3388	3571	3427	3224	3008	2828	2593	2288

Spain

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
40253	39394	37476	37379	37438	37666	40956	42118	41630	40415	37727	36688	33096
38479	37715	35872	35628	35700	35926	36672	39267	39519	38523	35869	34743	31603
31924	31930	30653	29928	29852	29788	29848	31952	34000	33578	31883	31295	29279
35462	34661	32997	33098	33431	33460	33055	32982	34418	36942	34222	31285	29541
35136	34814	33186	33183	33541	33642	33368	32839	33008	34262	33026	29943	27638
35903	35823	34363	34280	34880	35430	35074	34208	33664	33598	33709	31255	28674
37618	37243	35230	34420	34792	34993	34707	34408	33783	33990	33860	31333	29129
33855	34186	33264	32140	32132	32409	32517	32433	32436	34166	32877	30560	28238
36191	35325	33598	33614	34124	34433	34333	34044	35997	36328	32810	29859	27680
34298	33696	31997	31622	31868	32312	32463	34061	36487	35254	31968	28971	26421
36079	35420	33690	33584	33916	35623	38983	39568	39092	37825	35301	32357	28488
39795	38986	37201	37047	37458	39374	42259	42588	42223	41530	39381	35911	31447

Hourly load values on the 3rd Wednesday in MW

France

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	61760	61750	59631	57555	57689	60964	67676	73520	74733	74694	74468
20 / 2 / 2008	60450	62863	60831	58438	58001	61046	65529	68500	70414	71393	71400
19 / 3 / 2008	61158	61315	59647	57810	57877	61752	66607	70106	71887	71873	71181
16 / 4 / 2008	57567	57698	56130	54186	54461	57853	62210	66358	68374	68306	67199
21 / 5 / 2008	45769	45073	43005	41239	41386	43698	48337	52999	55438	56538	56931
18 / 6 / 2008	45222	44293	42227	40280	40621	42048	46818	51265	54372	55974	56501
16 / 7 / 2008	45659	45032	43032	41308	41310	43072	46309	50458	54141	56508	57469
20 / 8 / 2008	41182	40610	38357	36833	36824	38712	41024	44213	47621	50144	51227
17 / 9 / 2008	45479	45050	42985	41333	41784	44662	51278	54507	56862	57679	57455
15 / 10 / 2008	46483	45626	43709	42012	42042	45274	52090	57055	58210	59245	59506
19 / 11 / 2008	56159	55751	53708	52094	52336	55933	63114	67575	68996	69120	68408
17 / 12 / 2008	67279	67930	65817	63565	63581	67022	73676	79506	80822	81359	81049

Greece

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	5093	5106	4963	4805	4903	5413	6356	7023	7692	7647	7671
20 / 2 / 2008	5498	5465	5314	5194	5247	5754	6549	7319	7937	7938	7889
19 / 3 / 2008	4576	4467	4285	4156	4070	4290	5059	5730	5975	5953	5986
16 / 4 / 2008	4498	4389	4259	4238	4365	4743	5463	6119	6606	6563	6580
21 / 5 / 2008	4898	4638	4509	4469	4613	4872	5675	6409	6957	7066	7269
18 / 6 / 2008	5774	5466	5265	5175	5267	5491	6343	7352	8110	8445	8731
16 / 7 / 2008	7000	6536	6323	6179	6150	6252	6975	7869	8502	8634	8777
20 / 8 / 2008	6418	6096	5867	5717	5702	5768	6202	7029	7810	8277	8537
17 / 9 / 2008	5189	4949	4826	4733	4824	5215	5844	6587	7233	7398	7529
15 / 10 / 2008	4497	4321	4218	4214	4369	4866	5621	6212	6664	6704	6821
19 / 11 / 2008	4765	4689	4530	4408	4529	5098	6017	6667	7178	7296	7299
17 / 12 / 2008	4884	4814	4688	4532	4665	5163	5988	6586	7119	7161	7201

Croatia

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	1835	1672	1571	1529	1562	1698	2100	2397	2498	2529	2495
20 / 2 / 2008	1916	1760	1675	1643	1675	1827	2221	2498	2644	2632	2556
19 / 3 / 2008	1800	1655	1567	1550	1591	1723	2023	2346	2488	2479	2427
16 / 4 / 2008	1677	1537	1467	1428	1448	1584	1867	2196	2286	2293	2256
21 / 5 / 2008	1560	1423	1352	1358	1369	1422	1696	2021	2145	2188	2184
18 / 6 / 2008	1588	1441	1367	1343	1369	1395	1669	1993	2135	2197	2190
16 / 7 / 2008	1727	1570	1486	1469	1475	1482	1709	2009	2182	2269	2284
20 / 8 / 2008	1707	1562	1469	1444	1449	1518	1684	1997	2198	2285	2310
17 / 9 / 2008	1551	1422	1362	1332	1353	1486	1822	2095	2205	2221	2187
15 / 10 / 2008	1555	1425	1362	1345	1375	1509	1895	2130	2191	2179	2141
19 / 11 / 2008	1694	1537	1464	1448	1477	1638	2036	2282	2420	2413	2349
17 / 12 / 2008	1802	1633	1544	1526	1552	1706	2088	2414	2519	2549	2540

France

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
74978	74491	73641	71891	70580	70357	74906	77932	74987	71062	66735	68003	65929
71799	71093	70105	67940	66372	65097	66279	72810	70879	67105	63207	64560	62836
71390	70954	69766	67771	66019	65011	65596	71042	74083	70095	66044	68130	66448
66609	65702	64414	62137	59835	58207	57803	60044	59631	61188	60377	62314	60523
57487	57506	56560	55556	54122	52880	52261	53607	51954	50057	50276	52268	50228
57542	57592	56912	56110	54524	53196	52464	53083	51620	49241	48756	52317	50331
58478	58645	57854	57460	56133	54553	53676	54323	52636	50006	50406	53485	51059
52238	52650	51247	50353	48887	47797	47454	48586	47323	46929	47156	48616	46227
58173	57985	56852	55909	54527	53057	52607	54694	55793	55533	51376	52348	50721
60225	59519	58685	57698	56353	55163	55098	59277	60549	56250	51815	53151	51346
68503	67952	66806	65400	64227	64904	70776	72967	69983	65779	61931	63338	61172
81650	80921	79740	77945	76516	77311	82207	84239	80925	76810	72686	73843	71602

Greece

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
7654	7643	7410	7185	7309	7594	7991	8013	7888	7465	6754	6343	5621
7824	7713	7433	7158	7242	7183	7742	8226	8137	7655	6885	6510	5788
5968	5850	5815	5689	5742	5858	6083	6382	6379	6054	5701	5204	4576
6594	6578	6492	6214	6072	5928	5802	6016	6959	7143	6431	5679	4992
7368	7339	7159	6736	6516	6505	6526	6619	6951	7283	6618	6042	5404
8951	9007	8794	8401	8097	7977	7958	7971	8057	8377	8030	7466	6748
8914	8933	8740	8331	8124	8014	7964	7940	7969	8386	8006	7536	6996
8747	8860	8744	8442	8246	8119	8051	7863	8163	8285	7796	7353	6883
7621	7533	7327	6812	6618	6462	6543	6974	7659	7142	6396	5812	5271
6862	6840	6644	6272	6051	6087	6319	7273	7391	6930	6172	5570	4999
7248	7188	6851	6614	6739	7322	7738	7717	7601	7253	6535	5948	5225
7249	7225	7064	6917	7164	7759	7899	7871	7804	7336	6570	6037	5375

Croatia

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
2519	2489	2418	2372	2361	2504	2740	2720	2701	2636	2596	2397	2081
2546	2513	2442	2361	2329	2339	2603	2838	2839	2787	2743	2448	2099
2441	2403	2315	2234	2173	2163	2236	2570	2738	2692	2664	2413	2086
2303	2285	2207	2136	2075	2059	2057	2085	2265	2515	2418	2259	1952
2240	2234	2163	2094	2048	2028	2034	2049	2138	2269	2239	2101	1864
2254	2264	2207	2137	2078	2036	2025	2009	2048	2102	2267	2225	1943
2370	2396	2369	2303	2230	2199	2174	2195	2245	2285	2434	2343	2058
2408	2432	2403	2350	2267	2226	2213	2231	2318	2553	2477	2291	2021
2236	2224	2158	2091	2020	1987	2012	2091	2429	2463	2280	2123	1836
2184	2157	2100	2026	1973	1964	2019	2314	2512	2411	2230	2100	1822
2355	2330	2262	2209	2192	2446	2737	2724	2697	2609	2558	2321	1994
2574	2542	2477	2444	2426	2625	2741	2704	2686	2609	2589	2398	2103

Hourly load values on the 3rd Wednesday in MW

Hungary

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	4773	4773	4665	4422	4390	4506	5085	5860	5896	6124	6104
20 / 2 / 2008	5028	4768	4702	4409	4447	4602	5201	5625	5755	5846	5848
19 / 3 / 2008	4871	4695	4530	4316	4349	4514	4892	5483	5686	5684	5754
16 / 4 / 2008	4792	4461	4235	4117	4137	4238	4695	5391	5477	5507	5547
21 / 5 / 2008	4420	4420	4123	3991	3910	3999	4455	5097	5284	5298	5375
18 / 6 / 2008	4451	4451	4239	4022	3965	3977	4510	5091	5294	5437	5559
16 / 7 / 2008	4389	4389	4117	3947	3906	3996	4350	4914	5155	5349	5519
20 / 8 / 2008	4040	4040	3780	3599	3532	3487	3356	3651	3855	4044	4232
17 / 9 / 2008	4356	4356	4120	4021	3976	4178	4695	5287	5454	5527	5588
15 / 10 / 2008	4629	4629	4394	4125	4103	4306	4911	5540	5539	5540	5518
19 / 11 / 2008	4460	4460	4237	4089	4063	4303	5005	5573	5735	5633	5764
17 / 12 / 2008	4239	4239	4087	3902	3853	4028	4680	5378	5442	5415	5440

Italy

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	31765	30597	30125	30028	30838	34538	41364	47966	50842	51792	51936
20 / 2 / 2008	32557	31366	30796	30803	31640	35447	41349	48381	50478	51819	51845
19 / 3 / 2008	31693	30457	29941	29871	30426	32512	37247	44091	47813	48402	48322
16 / 4 / 2008	31718	30271	29498	29341	29782	31855	35932	42626	46141	46924	46695
21 / 5 / 2008	31256	29713	29078	28951	29483	30151	35000	41375	45703	46604	46836
18 / 6 / 2008	31875	30466	29892	29728	29886	30053	35396	41743	46326	48221	48492
16 / 7 / 2008	34908	33175	32482	32038	32420	32613	37658	43796	48650	50767	51498
20 / 8 / 2008	28332	27141	26339	25997	26227	27235	28371	32002	35467	37228	37761
17 / 9 / 2008	31172	30198	29505	29331	29598	31415	36569	41744	45257	45924	46305
15 / 10 / 2008	31715	30336	29727	29610	30037	32135	37875	42596	46061	46688	46462
19 / 11 / 2008	30093	28963	28347	28322	28784	31082	37092	42434	46117	46599	46192
17 / 12 / 2008	29596	28089	27516	27431	27714	30279	36861	43845	46948	47493	47100

Luxembourg

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	806	797	759	782	817	821	866	917	1010	970	1014
20 / 2 / 2008	850	824	829	823	828	849	870	976	989	906	918
19 / 3 / 2008	834	803	728	749	749	817	859	791	924	1005	1026
16 / 4 / 2008	859	838	832	793	765	735	740	832	882	870	842
21 / 5 / 2008	747	696	700	717	730	687	697	810	874	938	963
18 / 6 / 2008	802	754	745	740	753	800	812	875	970	948	958
16 / 7 / 2008	789	783	714	709	713	690	733	785	891	893	909
20 / 8 / 2008	779	763	731	725	697	756	706	821	891	881	866
17 / 9 / 2008	693	674	643	668	659	701	801	831	856	923	943
15 / 10 / 2008	697	634	623	641	634	617	646	774	852	870	848
19 / 11 / 2008	573	556	548	534	550	562	613	705	749	761	756
17 / 12 / 2008	554	522	507	501	504	522	566	662	716	719	724

Hungary

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
6088	6064	5944	5816	5959	5896	6278	6228	6286	6004	5995	5589	5443
5882	5807	5729	5589	5687	5482	5612	6186	6119	6042	5879	5608	5363
5743	5701	5657	5598	5658	5460	5386	5602	6135	5993	5868	5615	5340
5551	5554	5563	5372	5437	5357	5154	5144	5275	5692	5520	5158	5101
5454	5467	5438	5234	5325	5234	5168	5020	5113	5144	5420	5137	5062
5688	5624	5608	5474	5474	5360	5250	5130	5150	5089	5219	5208	5050
5576	5616	5651	5535	5534	5418	5314	5161	5103	5117	5383	5251	5135
4309	4323	4228	4146	4153	4111	4025	4050	4123	4267	4424	4350	4195
5609	5600	5573	5462	5528	5510	5433	5414	5611	5770	5424	4986	4897
5541	5530	5524	5378	5483	5503	5407	5644	6045	5797	5528	5131	5044
5817	5775	5698	5664	5790	5917	6184	6122	6071	5917	5715	5297	5188
5431	5387	5373	5366	5499	5677	5830	5806	5751	5608	5520	5231	4976

Italy

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
49047	47329	48752	49715	50417	52632	52393	50725	47379	45251	40686	37283	33543
49547	46952	48294	49143	49644	50152	52159	52227	49258	46406	41746	37862	34256
47794	44589	45189	46338	46284	46554	45894	48952	47248	44890	41358	38016	35383
46020	42704	43460	44635	44588	44310	42810	42012	43446	44549	40889	37118	34017
46193	43069	43985	45014	45268	44994	43830	42457	41742	42674	40332	36809	33937
48248	45344	45926	46892	46993	47041	45206	43536	42480	42530	41728	38815	35767
51289	48686	49576	50538	50945	50996	49089	47340	45451	45016	44122	40827	38246
38176	37673	36973	37082	37126	37361	37081	37002	37308	38917	36347	33791	31147
45756	42861	44246	44604	44930	44648	42997	42851	45895	43705	40244	36617	33792
45919	42576	43970	44992	44757	44552	43542	46995	46119	43828	40334	36589	33712
45730	42433	43059	44443	45152	48091	49802	48718	46521	43691	40155	35864	32466
46408	43086	44079	45040	45767	49276	49642	48019	45728	43141	39926	35713	32009

Luxembourg

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
1036	1017	1002	1004	990	972	1002	1041	1034	981	938	927	881
1007	1015	1009	977	985	980	984	1021	1024	930	941	925	879
1052	1013	990	989	972	962	958	951	1018	991	941	902	912
917	900	886	853	848	846	839	824	823	765	760	716	678
999	943	962	959	922	881	839	869	826	890	885	864	845
954	916	913	915	986	914	853	871	850	771	827	875	824
898	876	877	911	880	858	763	907	904	804	834	855	852
920	892	896	862	877	866	742	731	720	701	687	682	653
947	919	946	904	834	818	902	889	912	895	855	783	795
852	858	887	871	827	853	840	876	900	906	853	779	773
765	749	748	740	732	738	773	775	753	708	663	644	603
740	723	716	716	706	716	743	741	714	665	621	620	584

Hourly load values on the 3rd Wednesday in MW

Montenegro

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	586	540	519	501	487	496	514	561	602	607	628
20 / 2 / 2008	614	575	542	536	535	531	580	624	657	654	623
19 / 3 / 2008	515	479	455	442	438	437	488	545	575	577	591
16 / 4 / 2008	454	403	389	380	373	385	431	470	486	497	462
21 / 5 / 2008	390	369	361	354	346	352	372	401	424	445	462
18 / 6 / 2008	404	369	366	360	351	351	393	419	435	446	469
16 / 7 / 2008	455	418	402	394	383	385	400	437	478	501	520
20 / 8 / 2008	470	445	424	421	403	409	438	477	517	521	535
17 / 9 / 2008	434	410	391	389	395	388	426	469	491	503	509
15 / 10 / 2008	439	420	409	389	394	398	440	472	494	491	484
19 / 11 / 2008	485	449	433	421	405	430	479	516	521	524	528
17 / 12 / 2008	493	463	438	423	415	418	463	509	523	529	542

FYROM

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	1194	1061	1006	965	960	953	1047	1136	1221	1279	1285
20 / 2 / 2008	1135	1023	954	936	926	966	1063	1151	1217	1229	1198
19 / 3 / 2008	978	902	862	821	829	868	978	1098	1188	1244	1273
16 / 4 / 2008	894	826	768	758	755	788	858	938	997	1008	996
21 / 5 / 2008	763	699	666	660	670	663	719	788	841	870	882
18 / 6 / 2008	796	730	690	670	666	675	737	784	848	894	909
16 / 7 / 2008	833	792	750	736	736	722	774	819	884	939	956
20 / 8 / 2008	796	737	691	688	695	714	753	806	883	922	958
17 / 9 / 2008	769	713	694	726	697	683	722	754	814	825	853
15 / 10 / 2008	831	758	723	708	714	747	822	881	938	934	919
19 / 11 / 2008	930	842	783	760	748	774	830	894	971	1019	1043
17 / 12 / 2008	987	892	810	763	766	801	904	978	1050	1075	1088

The Netherlands

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	12272	11670	11300	11041	10915	11408	12748	14959	16668	17215	17191
20 / 2 / 2008	11841	11111	10748	10610	10568	10913	12157	14079	15539	16070	15945
19 / 3 / 2008	11840	11202	10919	10921	10928	11250	12417	14027	15538	16016	16230
16 / 4 / 2008	11864	11146	10765	10712	10721	10961	11938	13461	14934	15503	15483
21 / 5 / 2008	11470	10757	10299	10037	10040	10039	11058	12792	14218	15046	15102
18 / 6 / 2008	11273	10488	10076	9971	9435	9127	10068	11842	13383	14221	14624
16 / 7 / 2008	10883	10223	9834	9733	9702	9762	10395	11836	13574	14577	14817
20 / 8 / 2008	11262	10637	10446	10357	10349	10335	11126	12429	13933	14975	15422
17 / 9 / 2008	10722	10081	9902	9827	9700	9820	10974	12603	13804	14560	14613
15 / 10 / 2008	10700	9960	9810	9947	9787	9892	11026	12916	14252	14869	15045
19 / 11 / 2008	11042	10442	10207	10353	10367	10467	11784	13804	15198	15760	15956
17 / 12 / 2008	11340	10673	10547	10540	10430	10616	11687	13849	15600	16245	16294

Montenegro

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
634	627	613	608	619	634	670	667	667	666	646	641	605
615	583	600	606	607	618	671	711	715	714	703	685	652
597	586	578	566	565	549	585	622	651	642	623	614	572
453	448	440	457	467	468	458	462	483	507	561	546	498
466	455	467	448	445	434	442	436	451	501	486	479	449
458	470	472	471	467	471	463	461	468	496	524	505	473
513	528	526	527	503	511	514	500	527	545	563	542	504
557	546	572	570	561	557	548	553	570	617	595	556	522
508	496	497	502	493	490	488	505	548	565	537	528	485
487	490	482	483	463	464	473	539	551	556	532	503	480
526	511	494	520	527	561	616	620	617	602	604	581	539
559	555	554	567	565	593	594	594	606	592	570	562	539

FYROM

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
1296	1321	1347	1358	1368	1387	1431	1416	1400	1380	1346	1332	1293
1178	1148	1156	1162	1148	1163	1290	1371	1351	1341	1319	1301	1235
1292	1277	1319	1311	1288	1258	1275	1348	1369	1342	1309	1274	1192
977	978	982	991	971	963	961	984	1083	1162	1150	1095	1007
882	879	896	906	891	870	851	853	888	994	981	912	831
925	935	968	986	966	918	893	895	890	971	1021	975	892
963	965	972	974	941	898	894	887	896	986	1012	968	915
965	1003	1052	1067	1040	1009	976	975	1003	1091	1063	969	933
897	914	918	944	934	933	962	1005	1061	1067	1003	939	878
918	904	929	933	916	907	940	1094	1143	1112	1063	1003	934
1059	1139	1192	1232	1220	1248	1278	1251	1229	1207	1181	1158	1097
1102	1104	1152	1186	1175	1207	1241	1230	1219	1208	1192	1184	1121

The Netherlands

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
17153	16808	16854	16724	16646	16565	17314	17041	16605	15758	14907	13920	13196
15886	15712	15741	15670	15469	15425	15360	15837	15902	15173	14368	13262	12595
16324	16160	16253	16195	16162	16005	15834	15325	16124	16015	15102	13889	13120
15497	15457	15612	15559	15416	15381	15137	14208	13790	13728	14370	13634	12957
15147	15052	15220	15236	15169	15019	14707	13969	13548	13113	13093	13158	12753
14883	14799	15479	15458	15254	15045	14695	13639	13086	12565	12246	12434	12165
15059	14976	15104	14981	14844	14635	14272	13352	12791	12225	11973	12244	12127
15570	15703	15798	15696	15550	15255	14852	13748	13140	12768	13275	12685	12091
14650	14508	14530	14442	14367	14250	14086	13219	13059	13735	13410	12469	11648
15198	15083	15224	15165	15053	14947	15065	14900	15337	14751	14111	13142	12365
16083	16049	16281	16225	16135	16656	17712	17001	16621	15809	14995	13897	12995
16267	15885	15823	15783	15658	16140	16915	16254	15650	14995	14270	13113	12259

Hourly load values on the 3rd Wednesday in MW

Poland

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	15684	15200	14870	14830	14986	15520	17606	19320	19892	20168	20100
20 / 2 / 2008	15819	15282	15020	15052	15159	15593	17195	18793	19771	20130	20160
19 / 3 / 2008	15844	15271	15059	15050	15191	15389	16782	18762	19746	20114	20019
16 / 4 / 2008	14653	14034	13901	13882	14002	14120	15664	17690	18677	18954	19058
21 / 5 / 2008	13970	13352	13047	13004	12776	12860	14780	16654	17602	17925	17886
18 / 6 / 2008	14161	13464	13147	12940	12475	12648	14378	16363	17381	17798	17828
16 / 7 / 2008	13600	12962	12655	12592	12296	12294	13854	15569	16618	17099	17300
20 / 8 / 2008	13983	13410	13092	13032	13112	12977	14290	16174	17286	17784	17898
17 / 9 / 2008	14255	13740	13588	13485	13618	14140	15635	17560	18574	18837	18836
15 / 10 / 2008	14400	13828	13639	13600	13755	14311	16328	17817	18573	18762	18657
19 / 11 / 2008	14934	14374	14195	14146	14374	14964	17003	18642	19391	19643	19518
17 / 12 / 2008	14914	14281	13936	13941	14111	14736	16918	18821	19316	19594	19605

Portugal

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	6484	5869	5516	5211	5068	5082	5173	5655	6519	7343	7644
20 / 2 / 2008	6110	5528	5141	4929	4898	4895	4949	5443	6060	7077	7420
19 / 3 / 2008	5939	5380	4986	4851	4751	4759	4847	4935	5715	6824	7278
16 / 4 / 2008	5586	5101	4743	4609	4535	4562	4676	4896	5588	6492	6772
21 / 5 / 2008	5523	5025	4725	4588	4559	4559	4569	4704	5523	6585	6884
18 / 6 / 2008	5608	5161	4875	4688	4527	4494	4519	4698	5497	6538	6902
16 / 7 / 2008	6056	5543	5096	4943	4818	4849	4945	4990	5746	6835	7205
20 / 8 / 2008	5190	4771	4431	4290	4200	4197	4264	4211	4619	5378	5755
17 / 9 / 2008	5428	4983	4747	4616	4505	4440	4568	5030	5543	6478	6814
15 / 10 / 2008	5338	4908	4586	4411	4396	4452	4544	4987	5573	6402	6605
19 / 11 / 2008	6026	5481	5098	4888	4760	4800	4913	5391	5942	6875	7227
17 / 12 / 2008	6915	6177	5691	5382	5291	5241	5304	5771	6668	7623	7955

Romania

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	6420	6313	6268	6355	6510	6930	7675	7997	8075	7972	7862
20 / 2 / 2008	6334	6267	6169	6286	6456	6890	7417	7753	7893	7853	7722
19 / 3 / 2008	5849	5770	5694	5747	5955	6180	6799	7113	7158	7178	7055
16 / 4 / 2008	5686	5621	5542	5589	5702	5819	6556	7036	7143	7146	7068
21 / 5 / 2008	5268	5189	5280	5256	5238	5342	5877	6251	6454	6451	6461
18 / 6 / 2008	5503	5359	5319	5330	5235	5370	5891	6349	6655	6795	6770
16 / 7 / 2008	5583	5482	5456	5457	5432	5491	5983	6371	6661	6724	6804
20 / 8 / 2008	5493	5324	5238	5204	5288	5314	5714	6202	6483	6605	6632
17 / 9 / 2008	5293	5231	5176	5188	5402	5690	6148	6559	6774	6721	6679
15 / 10 / 2008	5563	5395	5374	5404	5581	5957	6546	6749	6777	6717	6563
19 / 11 / 2008	5700	5582	5561	5636	5689	6258	6937	7256	7367	7316	7246
17 / 12 / 2008	5561	5448	5408	5461	5658	6127	6922	7129	7172	7130	7066

Poland

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
20380	20281	20412	20116	20231	21386	21901	21548	21375	20684	19487	18070	16764
20418	20389	20375	19979	19496	19414	20672	21347	21255	20519	19225	17901	16766
20351	20257	20357	19961	19675	19359	19608	21142	21664	20970	19687	18246	17093
19193	19288	19220	18878	18673	18395	18236	18341	19111	19903	18781	17322	16123
18119	18143	18015	17743	17557	17293	17212	17043	17209	17541	17423	16289	15046
18168	18261	18110	17813	17612	17224	16907	16669	16772	16810	17269	16888	15483
17599	17763	17632	17179	16974	16663	16461	16331	16409	16624	16901	16144	14801
18200	18326	18236	17827	17625	17300	16917	16782	17073	18223	17774	16306	14991
19074	19058	18892	18559	18280	18022	17979	18395	19891	19706	18211	16713	15434
18792	18628	18585	18318	18082	17823	18250	19865	20307	19669	18317	16711	15479
19862	19960	20044	19814	20041	21238	21383	20917	20760	20016	18700	17242	16003
19738	19810	19943	19743	20097	21190	21097	20721	20666	20037	18762	17207	15881

Portugal

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
7737	7795	7234	7464	7537	7458	7449	7961	8381	8336	8101	7773	7227
7494	7520	6981	7229	7379	7229	7183	7012	7853	7920	7650	7309	6841
7434	7582	7061	7258	7479	7322	7330	7005	7340	7798	7471	7126	6797
6975	7040	6517	6612	6784	6791	6796	6732	6777	7123	7319	6956	6341
7035	7097	6600	6791	6836	6759	6657	6381	6346	6336	6524	6597	6157
7069	7187	6750	6979	7025	6963	6867	6622	6488	6434	6331	6769	6356
7536	7658	7290	7472	7570	7509	7417	7267	7035	6964	6812	7131	6770
5931	6082	5960	5954	6012	5942	5896	5829	5784	5880	6386	6148	5797
6943	6970	6549	6822	6934	6852	6746	6518	6475	6902	6940	6598	6146
6713	6792	6380	6577	6728	6718	6634	6461	6654	7274	6980	6559	5991
7289	7304	6788	6992	7065	6970	7023	7774	7969	7908	7625	7297	6789
8041	8053	7568	7695	7717	7569	7729	8620	8810	8860	8672	8345	7888

Romania

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
7795	7797	7696	7551	7640	8185	8439	8394	8224	7847	7354	6921	6469
7647	7573	7501	7273	7170	7255	7972	8235	8118	7771	7214	6768	6429
7094	7102	6997	6852	6742	6807	7099	7816	7826	7405	6889	6435	6069
7080	7039	6939	6763	6665	6654	6550	6706	7251	7367	6895	6332	5951
6547	6668	6592	6448	6334	6219	6183	6194	6429	6690	6489	5938	5577
6764	6842	6788	6704	6572	6537	6417	6427	6542	6819	6660	6137	5787
6817	6952	6982	6746	6536	6520	6414	6380	6527	6813	6653	6134	5790
6751	6907	6841	6675	6644	6495	6345	6285	6617	7030	6666	6109	5732
6708	6780	6706	6600	6558	6577	6614	7031	7364	7059	6488	5958	5597
6528	6492	6491	6221	6193	6176	6423	7270	7392	7099	6605	5953	5759
7160	7161	7126	7077	7276	7821	7872	7792	7625	7305	6756	6199	5863
6986	7037	7018	6967	7248	7709	7810	7692	7562	7158	6697	6109	5773

Hourly load values on the 3rd Wednesday in MW

Serbia

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	5453	5090	4800	4599	4549	4732	5195	5839	6064	6116	6146
20 / 2 / 2008	5405	5081	4813	4676	4581	4764	5306	5960	6067	6056	5901
19 / 3 / 2008	4772	4455	4205	4072	4035	4177	4671	5252	5387	5402	5333
16 / 4 / 2008	4200	3788	3496	3379	3392	3556	4130	4890	5125	5210	5219
21 / 5 / 2008	3322	2959	2737	2636	2666	2788	3313	3850	4119	4166	4147
18 / 6 / 2008	3410	3044	2795	2719	2656	2763	3210	3744	4030	4136	4148
16 / 7 / 2008	3202	2916	2699	2627	2554	2704	3005	3512	3819	3913	3923
20 / 8 / 2008	3294	2997	2807	2749	2726	2801	3149	3607	3893	3982	4070
17 / 9 / 2008	3511	3217	2963	2992	2963	3097	3531	4177	4535	4705	4757
15 / 10 / 2008	3741	3399	3150	3052	3035	3291	3833	4403	4537	4552	4496
19 / 11 / 2008	4771	4394	4090	3978	3953	4160	4730	5290	5436	5459	5343
17 / 12 / 2008	5125	4759	4376	4207	4145	4335	5022	5548	5825	5778	5703

Slovenia

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	1267	1213	1174	1178	1195	1300	1624	1837	1828	1822	1805
20 / 2 / 2008	1259	1206	1178	1196	1209	1305	1626	1792	1849	1829	1814
19 / 3 / 2008	1305	1234	1220	1197	1251	1322	1644	1785	1787	1743	1719
16 / 4 / 2008	1230	1176	1141	1153	1163	1262	1553	1715	1736	1689	1666
21 / 5 / 2008	1234	1183	1158	1150	1165	1198	1505	1725	1771	1748	1702
18 / 6 / 2008	1209	1163	1123	1122	1128	1183	1479	1651	1731	1702	1691
16 / 7 / 2008	1213	1139	1093	1100	1096	1158	1401	1583	1638	1614	1639
20 / 8 / 2008	1218	1146	1101	1118	1120	1166	1417	1599	1683	1654	1669
17 / 9 / 2008	1235	1191	1171	1165	1189	1267	1591	1729	1779	1739	1699
15 / 10 / 2008	1277	1219	1194	1163	1196	1276	1599	1772	1790	1761	1731
19 / 11 / 2008	1237	1194	1160	1159	1174	1301	1622	1809	1795	1754	1738
17 / 12 / 2008	1087	1027	999	990	1011	1120	1438	1655	1698	1681	1665

Slovak Republic

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	3528	3424	3346	3346	3385	3542	3944	4120	4138	4147	4120
20 / 2 / 2008	3518	3417	3318	3334	3387	3528	3830	3952	4025	4017	3991
19 / 3 / 2008	3351	3251	3164	3171	3238	3404	3686	3792	3866	3888	3895
16 / 4 / 2008	3061	3032	2940	2927	2996	3104	3450	3614	3699	3690	3636
21 / 5 / 2008	3059	2938	2871	2870	2893	2968	3332	3579	3522	3650	3646
18 / 6 / 2008	2943	2814	2740	2741	2723	2809	3151	3370	3467	3477	3460
16 / 7 / 2008	2888	2749	2672	2673	2664	2713	3008	3187	3333	3382	3373
20 / 8 / 2008	2811	2675	2603	2604	2657	2695	2964	3192	3325	3389	3368
17 / 9 / 2008	2979	2854	2802	2804	2871	3018	3364	3523	3619	3679	3648
15 / 10 / 2008	3085	2951	2869	2873	2939	3100	3509	3661	3698	3671	3625
19 / 11 / 2008	3261	3157	3070	3066	3150	3340	3753	3929	3971	3979	3931
17 / 12 / 2008	3097	2972	2897	2888	2961	3114	3528	3715	3765	3763	3763

Serbia

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
5979	5862	5770	5714	5691	6043	6477	6520	6482	6386	6220	6015	5695
5762	5619	5453	5295	5224	5417	6084	6335	6405	6407	6203	5961	5493
5277	5243	5145	5048	5000	5066	5283	5866	6000	5917	5735	5479	5183
5229	5098	4997	4781	4698	4657	4605	4731	5138	5490	5345	5070	4672
4138	4126	4129	4042	4005	3949	3924	4023	4233	4630	4676	4170	3719
4224	4250	4208	4141	4042	3975	3982	3999	4123	4418	4558	4266	3762
4017	4033	4021	3933	3926	3855	3800	3778	3894	4182	4529	4182	3801
4155	4258	4262	4179	4119	4079	4023	4009	4135	4611	4491	4216	3777
4772	4815	4828	4696	4693	4728	4853	5146	5536	5427	5171	4697	4196
4359	4365	4407	4257	4153	4206	4448	5155	5353	5423	5096	4673	4208
5370	5317	5217	5160	5234	5828	6163	6196	6195	6036	5835	5511	5208
5666	5664	5609	5653	5809	6229	6390	6476	6393	6210	6046	5811	5458

Slovenia

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
1832	1839	1776	1763	1721	1796	1843	1866	1837	1733	1587	1467	1349
1820	1808	1749	1721	1683	1740	1784	1916	1918	1814	1657	1532	1393
1750	1728	1688	1674	1661	1674	1693	1788	1856	1826	1666	1524	1404
1687	1700	1694	1655	1627	1590	1593	1627	1683	1741	1628	1471	1366
1735	1734	1684	1692	1628	1671	1629	1651	1689	1705	1631	1499	1369
1712	1720	1649	1664	1621	1599	1536	1553	1574	1603	1599	1530	1381
1725	1710	1705	1645	1578	1590	1541	1524	1530	1498	1528	1435	1310
1736	1757	1716	1676	1637	1648	1570	1592	1624	1688	1596	1482	1354
1732	1727	1718	1679	1640	1604	1607	1634	1823	1795	1634	1490	1336
1755	1765	1691	1669	1638	1641	1624	1761	1863	1795	1610	1489	1334
1755	1746	1695	1703	1672	1784	1907	1894	1866	1757	1648	1507	1376
1687	1687	1635	1590	1558	1649	1687	1677	1640	1563	1427	1320	1177

Slovak Republic

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
4101	4102	4139	4115	4111	4240	4275	4228	4190	4085	3907	3786	3642
3953	3909	3919	3874	3845	3826	4004	4101	4077	3981	3785	3688	3554
3873	3863	3864	3836	3814	3804	3818	3993	4036	3955	3754	3650	3522
3667	3658	3659	3624	3583	3568	3522	3508	3624	3762	3531	3359	3277
3675	3691	3652	3609	3530	3490	3413	3401	3476	3547	3497	3353	3247
3449	3488	3496	3465	3432	3388	3303	3285	3298	3328	3355	3281	3123
3463	3493	3459	3418	3373	3321	3239	3168	3223	3246	3261	3184	3072
3401	3428	3403	3356	3308	3284	3188	3162	3243	3402	3238	3111	3005
3641	3664	3661	3600	3568	3536	3525	3526	3708	3666	3477	3310	3183
3603	3601	3584	3544	3505	3492	3529	3741	3782	3636	3445	3305	3187
3968	3982	4019	3992	3997	4133	4162	4092	4039	3920	3722	3575	3412
3756	3723	3736	3747	3795	3913	3920	3867	3810	3707	3544	3397	3225

Hourly load values on the 3rd Wednesday in MW

UCTE

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	293671	283715	276051	271787	274949	291637	329419	365558	379078	382549	383046
20 / 2 / 2008	291589	285006	277982	273942	276395	292671	324833	353477	365898	371150	371274
19 / 3 / 2008	282626	273789	266831	263097	266310	279621	303448	329290	345774	352079	353808
16 / 4 / 2008	271846	261979	255371	252479	256465	271817	299855	328210	342452	346451	346815
21 / 5 / 2008	245323	235148	228433	224885	227873	238416	269100	299546	317886	324995	328655
18 / 6 / 2008	247864	237173	230186	226294	227029	235477	265982	297259	316705	326097	330199
16 / 7 / 2008	250871	241241	234059	229971	231387	240413	266358	295048	316753	328528	334210
20 / 8 / 2008	237794	228546	220696	217087	219356	229693	248957	272797	293045	304720	311328
17 / 9 / 2008	245970	238050	232008	229519	233270	249029	284025	309965	325065	330464	332581
15 / 10 / 2008	248585	238352	231822	229239	233148	250283	288388	317570	328976	333206	334536
19 / 11 / 2008	269985	260082	253135	250167	254148	270402	308313	338522	351096	354921	355341
17 / 12 / 2008	281940	270553	262903	258621	261252	278740	317309	353565	366867	372445	372728

Ukraine West

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
16 / 1 / 2008	651	624	605	614	669	712	796	840	851	850	803
20 / 2 / 2008	651	662	637	639	684	776	794	868	895	884	850
19 / 3 / 2008	603	543	574	573	595	661	692	730	734	728	689
16 / 4 / 2008	514	496	488	506	533	568	635	654	682	691	663
21 / 5 / 2008	385	399	386	397	413	460	544	563	596	564	541
18 / 6 / 2008	376	382	416	391	382	465	502	569	599	575	564
16 / 7 / 2008	413	399	407	391	380	438	498	561	588	574	566
20 / 8 / 2008	398	404	373	387	419	418	498	534	567	556	558
17 / 9 / 2008	442	433	436	433	434	516	608	626	679	637	635
15 / 10 / 2008	430	436	428	415	479	563	614	617	623	600	584
19 / 11 / 2008	535	575	549	534	566	678	724	772	807	834	822
17 / 12 / 2008	559	537	553	556	592	683	764	777	772	758	736

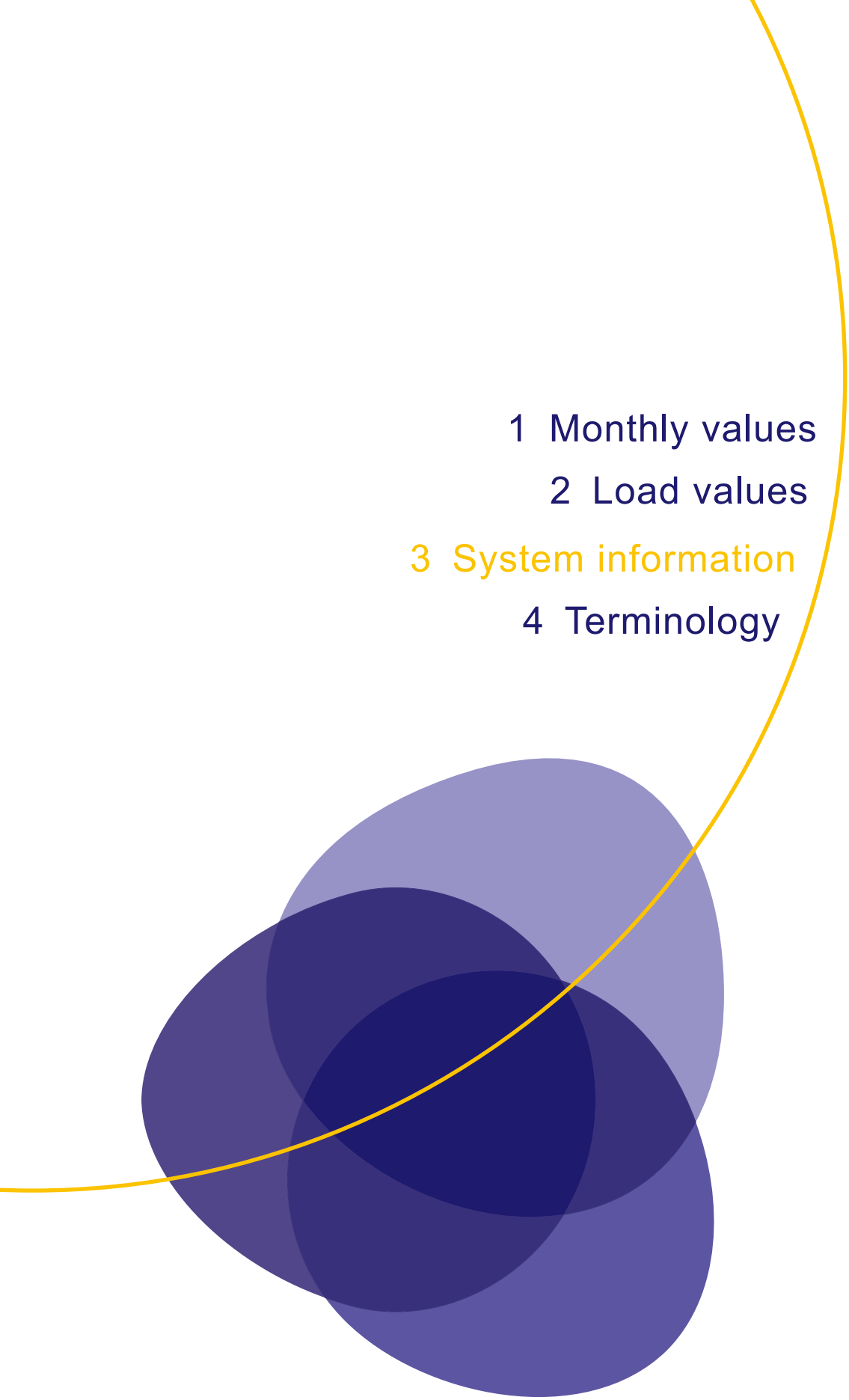
UCTE

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
381551	376007	372547	369362	368367	373730	389862	392362	381446	364007	342765	331844	310271
369924	363262	359784	355944	353088	351140	363306	381465	374831	358026	336644	325405	305403
355629	349871	346696	342978	339145	335286	336243	355196	365042	350863	331777	322175	305188
346910	340337	336361	331980	328152	323289	318904	319482	324735	333393	322154	308527	290842
331555	325992	322467	319637	316433	311693	308239	305733	302429	301230	294996	284092	266013
334379	330264	327432	325102	321538	317035	312115	307404	302542	297893	295127	289826	270836
338765	334890	330970	327702	324920	320018	314513	310692	304228	299100	297056	290139	272112
316905	316400	311718	306470	301968	298082	294494	292829	291432	296108	289925	275677	256659
334970	328808	325557	322373	319606	315312	313097	316772	329443	326252	304197	286563	267869
336214	329169	326259	323413	320593	317374	318884	338399	344999	328635	306098	290461	271000
356805	351490	348802	347981	348790	360481	377944	377756	367424	350356	330844	315662	294342
373133	366882	363903	362032	362659	375036	387048	385830	375078	358262	339369	325067	302024

Ukraine West

12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
771	774	808	810	831	944	936	911	875	848	712	696	642
828	798	801	826	811	890	913	902	877	827	729	673	681
704	710	733	743	744	730	793	822	789	737	670	582	560
662	695	656	684	668	647	667	704	766	731	625	579	527
536	578	557	522	529	518	514	517	576	621	538	488	456
569	558	586	545	531	540	553	548	573	590	571	458	416
565	564	579	567	522	524	542	555	553	621	533	463	396
538	579	554	564	550	519	514	512	623	628	519	466	430
623	610	629	646	652	623	691	754	715	672	571	497	489
590	557	573	568	556	568	676	753	690	628	535	483	458
814	799	816	829	841	934	885	862	824	746	694	627	587
730	754	740	756	809	846	857	865	812	771	694	613	578

1 Monthly values
2 Load values
3 System information
4 Terminology



Tables and graphs [1]

III

[1] **All values of production and consumption are calculated to represent 100% of the national values**

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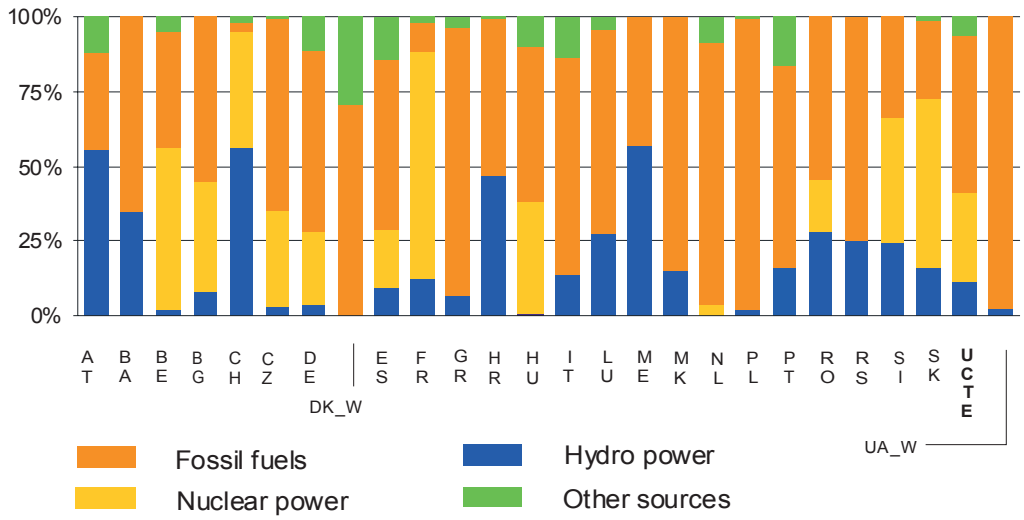
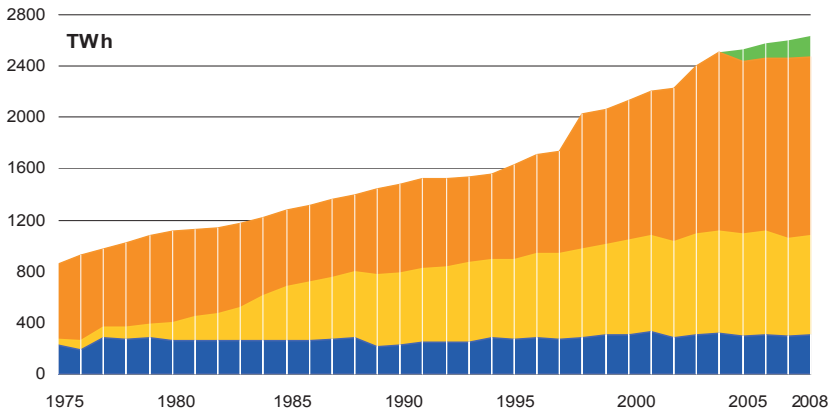
T1 Net electricity generation[1] and its structure



Country	Thermal nuclear TWh	Thermal nuclear %	Fossil fouls TWh	Fossil fouls %	Hydro power TWh	Hydro power %	Other renewable TWh	Other renewable %	of which wind TWh	Non-identifiable TWh	Non-identifiable %	Total TWh
AT	-	-	21,6	32,3	36,9	55,2	-	-	-	8,4	12,5	**66,8**
BA	-	-	8,7	65,6	4,6	34,4	-	-	-	-	-	**13,2**
BE [3]	43,4	53,8	31,3	38,9	1,7	2,2	4,3	5,2	0,6	-	-	**80,6** [2]
BG	14,8	36,4	22,6	55,7	3,2	7,9	-	-	-	-	-	**40,6**
CH	26,1	39,0	2,1	3,2	37,6	56,1	1,2	1,7	0,01	-	-	**67,0** [2]
CZ	25,0	32,5	49,4	64,1	2,4	3,1	0,3	0,3	0,2	-	-	**77,1** [2]
DE [4]	141,1	24,0	356,4	60,7	23,5	4,0	66,4	11,3	40,4	-	-	**587,3** [2,5]
DK_W	-	-	15,9	70,0	0,03	0,1	6,8	29,9	5,2	-	-	**22,7** [2]
ES	56,5	19,8	162,9	57,0	25,4	8,9	40,6	14,2	31,3	0,3	0,1	**285,7**
FR	418,3	76,2	53,3	9,7	68,0	12,4	9,6	1,8	5,6	-	-	**549,1**
GR [6]	-	-	46,7	90,0	3,3	6,4	1,9	3,6	1,7	-	-	**51,9** [2]
HR	-	-	6,1	53,3	5,3	46,3	0,05	0,4	0,04	-	-	**11,4** [2]
HU	14,0	37,4	19,4	51,8	0,2	0,6	1,5	3,9	0,2	2,4	6,4	**37,4**
IT	-	-	250,3	81,5	46,7	15,2	10,2	3,3	4,9	-	-	**307,2**
LU	-	-	2,4	68,4	0,9	27,2	0,2	4,4	0,1	-	-	**3,5**
ME	-	-	1,2	42,9	1,5	57,1	-	-	-	-	-	**2,7**
MK	-	-	5,0	85,0	0,9	15,0	-	-	-	-	-	**5,9**
NL	3,9	3,8	91,4	87,6	0,1	0,1	8,9	8,5	4,3	-	-	**104,4** [2]
PL [7,8]	-	-	140,8	97,5	2,7	1,9	0,9	0,7	0,8	-	-	**144,4** [2]
PT	-	-	28,9	66,7	7,1	16,4	7,4	17,0	5,7	-	-	**43,4** [2]
RO	10,3	17,3	32,6	54,6	16,8	28,1	0,01	0,0	0,01	-	-	**59,8**
RS	-	-	29,4	74,6	10,0	25,4	-	-	-	-	-	**39,4**
SI	6,0	41,7	4,8	33,8	3,5	24,5	-	-	-	-	-	**14,3**
SK	15,5	56,5	7,3	26,6	4,3	15,7	0,3	1,1	0,01	-	-	**27,4** [2]
UCTE	**774,8**	**29,3**	**1390,4**	**52,6**	**306,5**	**11,6**	**160,4**	**6,1**	**100,9**	**11,0**	**0,4**	**2643,0** [2]
UA_W	-	-	8,1	98,1	0,1	1,9	-	-	-	-	-	**8,2**

[1] All net generation values are calculated to represent 100% of the national values. The percentage as referred to the national values are specified on page 12 and page 13 of this Yearbook.
[2] Including deliveries from industry.
[3] The reported figures are best estimates based on actual measurements and extrapolations.
[4] Calculated values.
[5] Electricity generation and consumption also comprise shares of generation from industry's own power stations and feed-in from private generators (total of 12 monthly values).
The part of net electricity generation relevant to primary control power amounts to 553,9 TWh.
[6] The values for Greece refer to the interconnected system and not to the whole country.
[7] Energy from co-firing (biomass combustion in lignite/hard coal power stations) is classified as energy from fossil fuels installations.
[8] Only energy from 100% renewable installations (e.g.wind farms, biogas) is classified as energy from renewable (without co-firing).

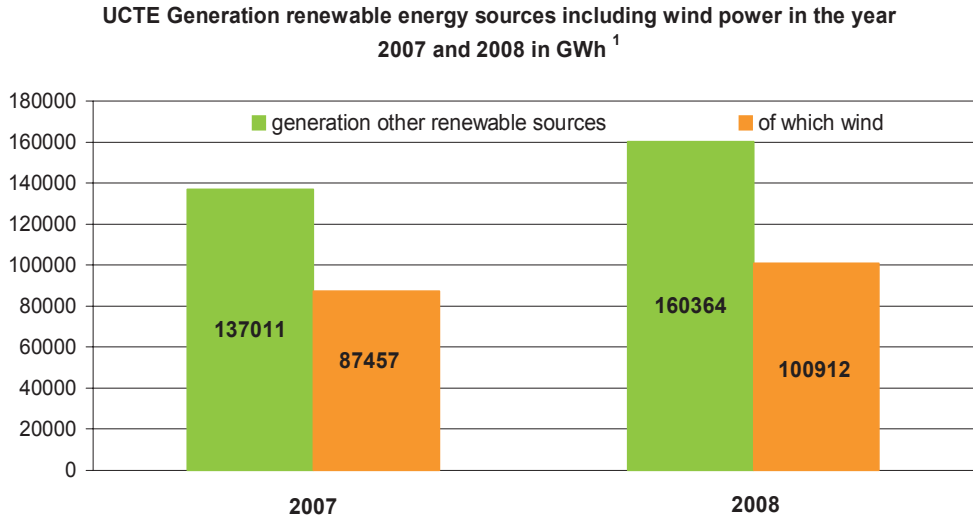
T2 Development of net electricity generation [1]



Year	Hydro power TWh	Thermal nuclear TWh	Fossil fuels TWh	Other sources [2] TWh	Total TWh
1975	222,9	50,0	585,4		858,3
1976	191,2	69,5	669,1		929,8
1977	276,2	82,2	610,4		968,8
1978	266,1	97,4	659,9		1023,4
1979	275,4	110,6	691,3		1077,3
1980	263,4	133,9	712,1		1109,4
1981	256,4	191,0	678,4		1125,8
1982	258,0	211,2	665,5		1134,7
1983	255,9	258,8	653,3		1168,0
1984	257,0	348,5	617,3		1222,8
1985	255,2	426,3	597,3		1278,8
1986	253,3	464,4	593,6		1311,3
1987	264,9	483,0	607,7		1442,1
1988	282,9	514,6	597,0		1483,5
1989	216,2	551,6	669,2		1528,7
1990	222,8	558,5	690,6		1565,9
1991	246,2	579,6	701,7		1625,0
1992	240,2	591,2	689,5		1618,0
1993	251,2	616,9	664,9		1630,0
1994	278,8	606,1	674,7		1657,5
1995 [3]	265,8	627,7	732,8		1740,2
1996	284,6	657,2	770,1		1841,4
1997	272,0	665,2	792,1		1861,3
1998 [4]	284,4	689,5	1057,7		2172,3
1999	302,0	705,5	1053,0		2165,4
2000	305,1	733,8	1093,4		2246,4
2001	331,6	744,4	1129,8		2291,0
2002	276,1	757,6	1187,6		2303,8
2003 [5]	307,4	787,4	1305,7		2484,6
2004	319,8	798,6	1386,3		2525,2
2005	292,4	792,6	1349,1	98,2	2540,4
2006	305,4	801,9	1354,3	115,8	2584,9
2007 [6]	294,2	759,4	1402,3	143,3	2607,1
2008	306,5	774,8	1383,9	169,4	2643,0

[1] Values of detailed generation are national values; total net generation data are calculated to represent 100% of the national values.
[2] Before 2005, the information on other renewable energy sources was collected in a different manner. Some countries added them to fossil fuels, some considered them as the part of not represented in the figures (through the factor "representativity").
[3] As of September 1995 total German values
[4] Including values of CZ, HU, PL, SK as of 1998
[5] Including values of RO, BG as of 2003
[6] Including values of DK_W as of June 2007

UCTE Other renewable generation including wind power [1]



month	other renew	of which wind		other renew	of which wind
January	15264	11579		17167	12491
February	11356	7815		13477	8940
March	13094	9158		18180	13056
April	8577	4775		12435	7671
May	10419	6441		9751	4935
June	9095	5031		10609	5815
July	11151	6759		11067	6139
August	10438	5961		12001	6887
September	11247	6887		11009	5995
October	9303	4905		13642	8492
November	13682	9182		15774	10778
December	13385	8964		15252	9713
sum 2007	**137011**	**87457**	**sum 2008**	**160364**	**100912**

[1] All values are calculated to represent 100% of the national values. The percentage as referred to the national values are specified on page 12 and page 13 of this Yearbook.

National electricity consumption

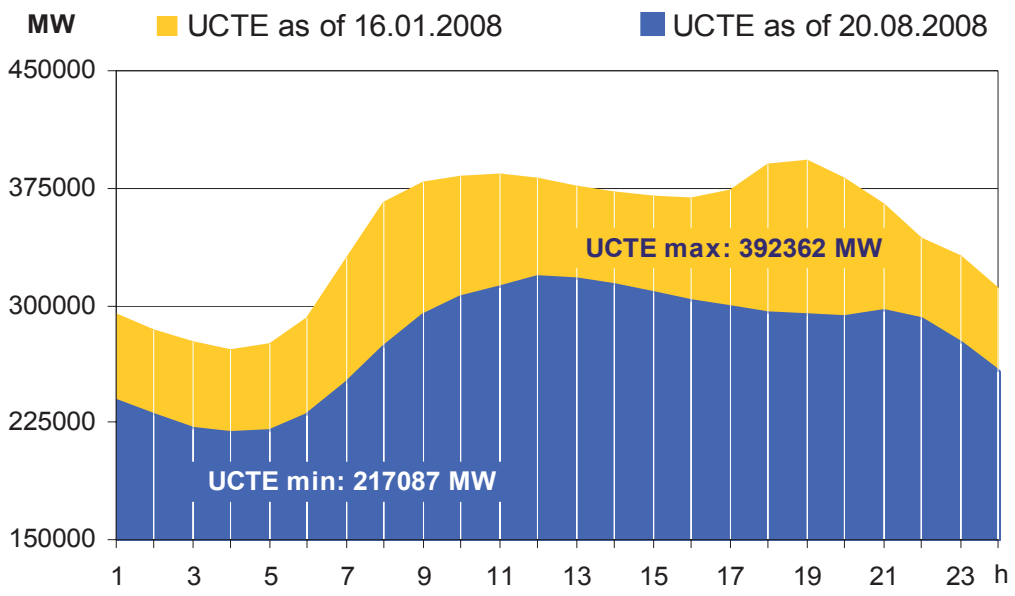
Country	GWh	Δ % [1]	repr % [2]	Country	GWh	Δ % [1]	repr % [2]
AT	68378	1,4	100	HU	41284	- 0,01	100
BA	11575	3,6	100	IT	339481	- 0,1	100
BE	89462	- 0,8	100	LU	6674	- 1,5	100
BG	34453	4,0	100	ME	4583	- 1,5	100
CH	64434	2,2	100	MK	8643	0,9	100
CZ	65141	0,7	100	NL	120194	2,7	100
DE	557162	0,2	100	PL	142852	0,5	100
DK_W	21712	- 0,4	100	PT	52177	1,1	97
ES	270913	1,2	98	RO	55217	2,0	100
FR	494499	2,9	100	RS	38982	3,0	100
GR [3]	56310	1,1	100	SI	12686	- 5,7	95
HR	17861	2,8	100	SK	27635	0,2	100
UCTE	**2602308**	**1,1**		UA_W	4155	- 2,7	100

National annual maximum load in each country [4]

Country	Date	Day	Time	MW	Δ % [1]
AT	26 November	Wednesday	05:30 p.m.	9397	- 1,3
BA	31 December	Wednesday	06:00 p.m.	2117	2,0
BE	14 February	Thursday	06:30 p.m.	13648	- 4,1
BG	13 January	Sunday	06:00 p.m.	7034	2,1
CH	17 December	Wednesday	10:15 a.m.	9854	- 1,0
CZ	14 February	Thursday	03:00 p.m.	10010	- 1,6
DE	15 January	Tuesday	07:00 p.m.	76800	- 2,2
DK_W [5]	03 January	Thursday	06:00 p.m.	3748	- 0,5
ES	15 December	Monday	08:00 p.m.	42920	- 4,4
FR	15 December	Monday	07:00 p.m.	84426	- 5,2
GR [3]	22 July	Tuesday	02:00 p.m.	10217	- 1,9
HR	24 March	Tuesday	06:00 p.m.	3009	2,9
HU	09 January	Wednesday	05:00 p.m.	5980	- 3,2
IT	26 June	Thursday	12:00 a.m.	55292	- 2,7
LU	17 January	Thursday	07:00 p.m.	1054	- 0,7
ME	17 February	Sunday	08:00 p.m.	770	n.a.
MK	06 January	Sunday	06:00 p.m.	1618	n.a.
NL	15 January	Tuesday	06:00 p.m.	18465	0,6
PL	04 January	Friday	06:00 p.m.	23115	1,9
PT	02 December	Tuesday	07:30 p.m.	8964	- 1,6
RO	10 January	Thursday	05:00 p.m.	8589	- 1,1
RS	31 December	Wednesday	05:00 p.m.	7504	2,7
SI	10 January	Thursday	07:00 p.m.	1990	- 4,6
SK	09 January	Wednesday	05:00 p.m.	4342	- 1,7
UA_W [5]	05 January	Saturday	07:00 p.m.	1025	- 0,3

[1] As compared to the last year.
[2] Percentage as referred to the total values of a country.
(The total values of a country are defined as the synchronously interconnected system plus the areas directly connected via AC or DC to the mainland system.)
[3] The values for Greece refer to the interconnected system and not to the whole country.
[4] The maximum load values of each country are specified in the System Adequacy Retrospect 2008 published on 29 June 2009.
[5] The values of DK_W and UA_W are collected as monthly hourly load values and not contained in the SA Retrospect 2008.

G1 Highest and lowest load on 3rd Wednesday in 2008

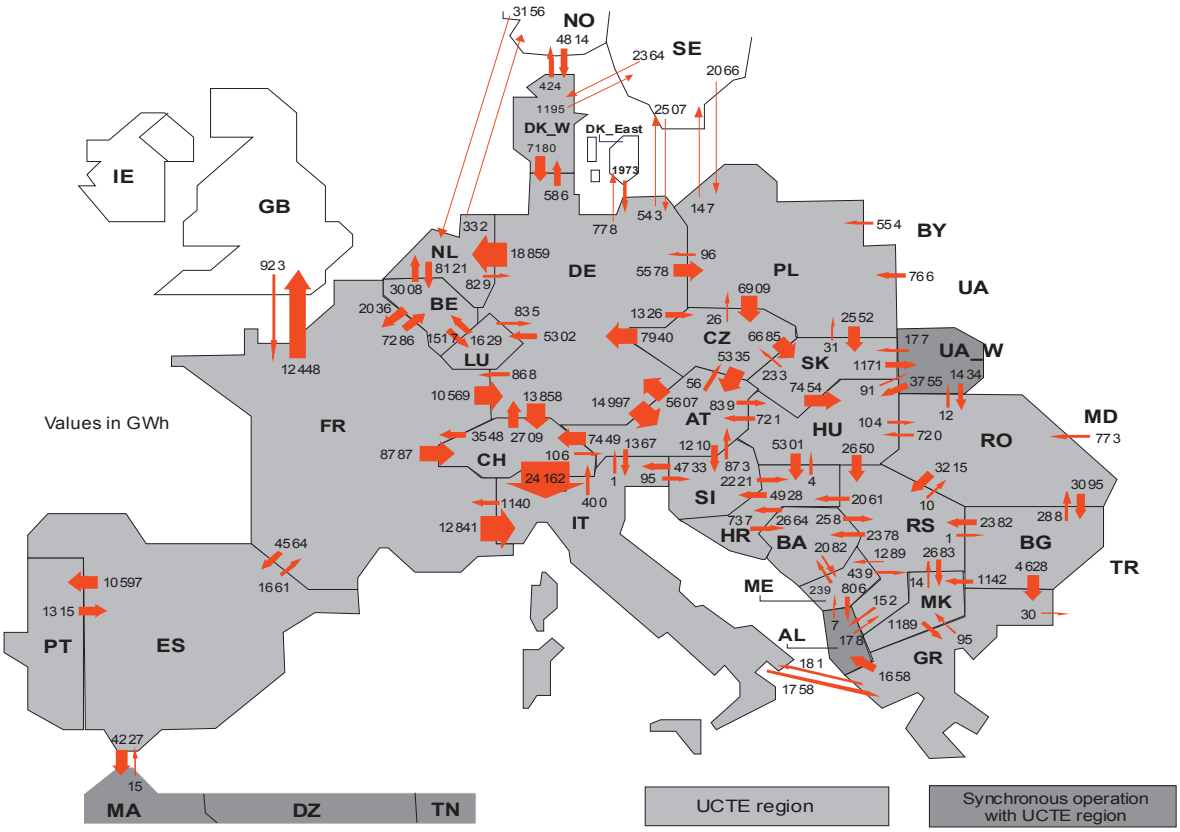


Highest load 3rd Wednesday of each country / **Lowest load 3rd Wednesday of each country**

Country	MW	Date	Time	MW	Date	Time
AT	9149	16 January	06:00 p.m.	4789	20 August	04:00 a.m.
BA	1894	19 November	06:00 p.m.	929	21 May	04:00 a.m.
BE[1]	13300	16 January	07:00 p.m.	8209	20 August	04:00 a.m.
BG	6771	16 January	08:00 p.m.	3040	17 September	04:00 a.m.
CH	9858	17 December	10:00 a.m.	4947	16 July	04:00 a.m.
CZ	9804	16 January	12:00 a.m.	5701	20 August	04:00 a.m.
DE[1]	82231	19 November	06:00 p.m.	48684	20 August	03:00 a.m.
DK_W	3664	16 January	06:00 p.m.	1554	16 July	05:00 a.m.
ES	42588	17 December	07:00 p.m.	22913	15 October	04:00 a.m.
FR	84239	17 December	07:00 p.m.	36824	20 August	05:00 a.m.
GR[2]	9007	18 June	01:00 p.m.	4070	19 March	05:00 a.m.
HR	2839	20 February	08:00 p.m.	1332	17 September	04:00 a.m.
HU	6286	16 January	08:00 p.m.	3356	20 August	07:00 a.m.
IT	52632	16 January	05:00 p.m.	25997	20 August	04:00 a.m.
LU	1052	19 March	12:00 a.m.	501	17 December	04:00 a.m.
ME	715	20 February	08:00 p.m.	346	21 May	05:00 a.m.
MK	1431	16 January	06:00 p.m.	660	21 May	04:00 a.m.
NL	17712	19 November	06:00 p.m.	9127	18 June	06:00 a.m.
PL	21901	16 January	06:00 p.m.	12294	16 July	06:00 a.m.
PT	8857	17 December	09:00 p.m.	4197	20 August	06:00 a.m.
RO	8439	16 January	06:00 p.m.	5176	17 September	03:00 a.m.
RS	6520	16 January	07:00 p.m.	2554	16 July	05:00 a.m.
SI	1918	20 February	08:00 p.m.	990	17 December	04:00 a.m.
SK	4275	16 January	06:00 p.m.	2603	20 August	03:00 a.m.
UCTE	**392362**	**16 January**	**07:00 p.m.**	**217087**	**20 August**	**04.00 a.m.**
UA_W	944	16 January	05:00 p.m.	373	20 August	03:00 a.m.

[1] The reported figures are best estimated based on actual measurements.
[2] The values for Greece refer to the interconnected system and not to the whole country.

Physical energy flows 2008 in GWh

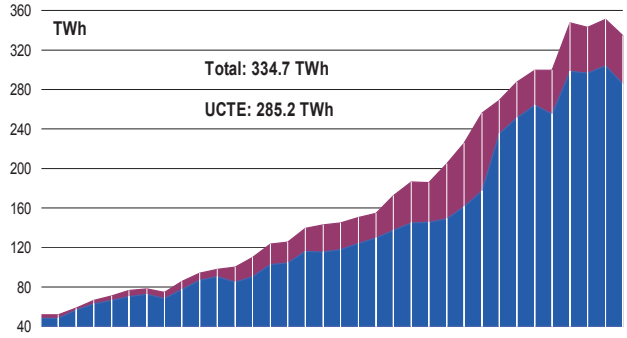


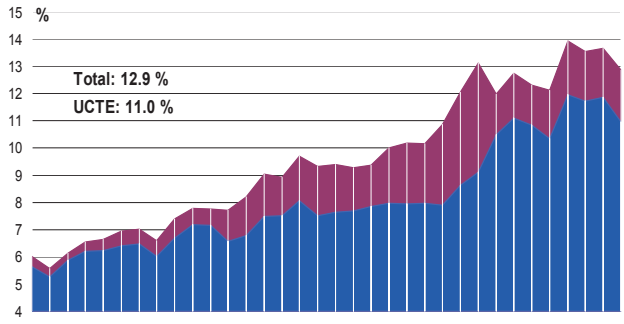
Exporting countries	Importing countries																									Sum export
	AT	BA	BE	BG	CH	CZ	DE	DK_W	ES	FR	GR	HR	HU	IT	LU	ME	MK	NL	PL	PT	RO	RS	SI	SK	UA_W	Other[1]	
AT	-	-	-	-	7449	56	5607	-	-	-	-	-	839	1367	-	-	-	-	-	-	-	-	1210	-	-	-	16528
BA	-	-	-	-	-	-	-	-	-	-	-	2664	-	-	-	2082	-	-	-	-	-	258	-	-	-	-	5004
BE	-	-	-	-	-	-	-	-	-	2036	-	-	-	-	1517	-	-	3008	-	-	-	-	-	-	-	-	6561
BG	-	-	-	-	-	-	-	-	-	-	4628	-	-	-	-	-	1142	-	-	-	288	2382	-	-	-	0	8440
CH	106	-	-	-	-	-	2709	-	-	3548	-	-	-	24162	-	-	-	-	-	-	-	-	-	-	-	-	30525
CZ	5335	-	-	-	-	-	7940	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-	6685	-	-	19986
DE	14997	-	-	-	13858	1326	-	586	-	868	-	-	-	-	5302	-	-	18859	5578	-	-	-	-	-	-	1321	62695
DK_W	-	-	-	-	-	-	7180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1619	8799
ES	-	-	-	-	-	-	-	-	-	1661	-	-	-	-	-	-	-	-	-	10597	-	-	-	-	-	4227	16485
FR	-	-	7286	-	8787	-	10569	-	4564	-	-	-	-	12841	-	-	-	-	-	-	-	-	-	-	-	12448	56495
GR	-	-	-	0	-	-	-	-	-	-	-	-	-	181	-	-	95	-	-	-	-	-	-	-	-	1688	1964
HR	-	737	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	4928	-	-	-	5669
HU	721	-	-	-	-	-	-	-	-	-	-	5301	-	-	-	-	-	-	-	-	104	2650	-	0	91	-	8867
IT	1	-	-	-	400	-	-	-	-	1140	1758	-	-	-	-	-	-	-	-	-	-	-	95	-	-	-	3394
LU	-	-	1629	-	-	-	835	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2464
ME	-	239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	439	-	-	-	806	1484
MK	-	-	-	0	-	-	-	-	-	-	1189	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	1203
NL	-	-	8121	-	-	-	829	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	332	9282
PL	-	-	-	-	-	6909	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2552	-	147	9704
PT	-	-	-	-	-	-	-	-	1315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1315
RO	-	-	-	3095	-	-	-	-	-	-	-	-	720	-	-	-	-	-	-	-	-	3215	-	-	12	0	7042
RS	-	2378	-	1	-	-	-	-	-	-	-	2061	0	-	-	1289	2683	-	-	-	10	-	-	-	-	152	8574
SI	873	-	-	-	-	-	-	-	-	-	-	2221	-	4733	-	-	-	-	-	-	-	-	-	-	-	-	7827
SK	-	-	-	-	-	233	-	-	-	-	-	-	7454	-	-	-	-	-	31	-	-	-	-	-	1171	-	8889
UA_W	-	-	-	-	-	-	-	-	-	-	-	-	3755	-	-	-	-	-	-	-	1434	-	-	177	-	-	5366
Other[1]	-	-	-	0	-	-	4480	7178	15	923	0	-	-	-	-	7	-	3156	3386	-	773	178	-	-	-	-	20096
Sum imp	22033	3354	17036	3096	30494	8524	40245	7764	5894	10176	7575	12247	12772	43284	6819	3378	3920	25023	9021	10597	2609	9136	6233	9414	1274	22740	334658

Sum of physical energy flows between UCTE countries = 285182 GWh **Total physical energy flows = 334658 GWh**

Other[1]: Albania, Belarus, Denmark East, Great Britain, Morocco, Republic of Moldavia, Norway, Sweden, Republic of Turkey and Ukraine
These physical energy flows were measured on the cross-frontier transmission lines (≤ 110 kV) listed in table T9 of this Yearbook.

T5a Development of physical exchanges on tie lines





Year		Sum of electricity exchanges within the UCTE	Part of exchanges in the consumption of the UCTE	Sum of electricity exchanges with CENTREL	Part of exchanges with CENTREL in the consumption of the UCTE	Volume of exchanges with third countries	Part of exchanges with third countries in the consumption of the UCTE	Total exchanges
		TWh	%	TWh	%	TWh	%	TWh
1975		48,4	5,7			3,2	0,4	51,6
1976		48,6	5,3			2,9	0,3	51,5
1977		56,4	5,9			2,6	0,3	59,0
1978		62,9	6,2			3,3	0,3	66,2
1979		66,4	6,2			4,3	0,4	70,8
1980		70,5	6,4			5,9	0,5	76,4
1981		72,2	6,5			6,0	0,5	78,3
1982		67,9	6,0			6,2	0,6	74,2
1983		77,5	6,7			8,3	0,7	85,7
1984		87,0	7,2			7,1	0,6	94,1
1985		90,5	7,2			7,4	0,6	97,9
1986		85,0	6,6			14,7	1,1	99,7
1987		90,7	6,8			18,9	1,4	109,5
1988		102,6	7,5			20,9	1,5	123,5
1989		103,8	7,5			21,9	1,4	125,7
1990		115,8	8,0			23,9	1,7	139,7
1991		117,7	7,8			26,9	1,9	144,6
1992		117,6	7,8			27,8	1,9	145,4
1993		124,4	8,3			26,2	1,7	150,6
1994		129,5	8,1			26,2	1,6	155,7
1995	[1]	137,4	8,4	11,9	0,7	23,1	1,5	172,3
1996		145,0	8,7	14,1	0,8	26,8	1,6	185,9
1997		144,7	8,5	13,9	0,8	27,1	1,7	185,7
1998		148,9	8,4	14,0	0,8	25,4	1,5	204,5
1999		161,6	8,0	16,5	0,8	29,7	1,7	225,4
2000		177,5	8,5	22,1	1,1	29,6	1,6	229,2
2001	[2]	235,5	10,5			33,7	1,8	269,2
2002		250,9	11,1			36,9	1,6	287,8
2003	[3]	263,8	10,8			35,5	1,5	299,3
2004		255,2	10,3			44,1	1,8	299,3
2005		298,9	12,0			48,8	2,0	347,7
2006		296,8	11,7			46,0	1,8	342,8
2007	[4]	304,1	11,9			46,7	1,8	350,8
2008		285,2	11,0			49,5	1,9	334,7

[1] As of September 1995 total German values
[2] From year 2001 on sum of exchanges including CZ, HU, PL SK
[3] From year 2003 on sum of exchanges including RO and BG
[4] From June 2007 on sum of exchanges including DK_W

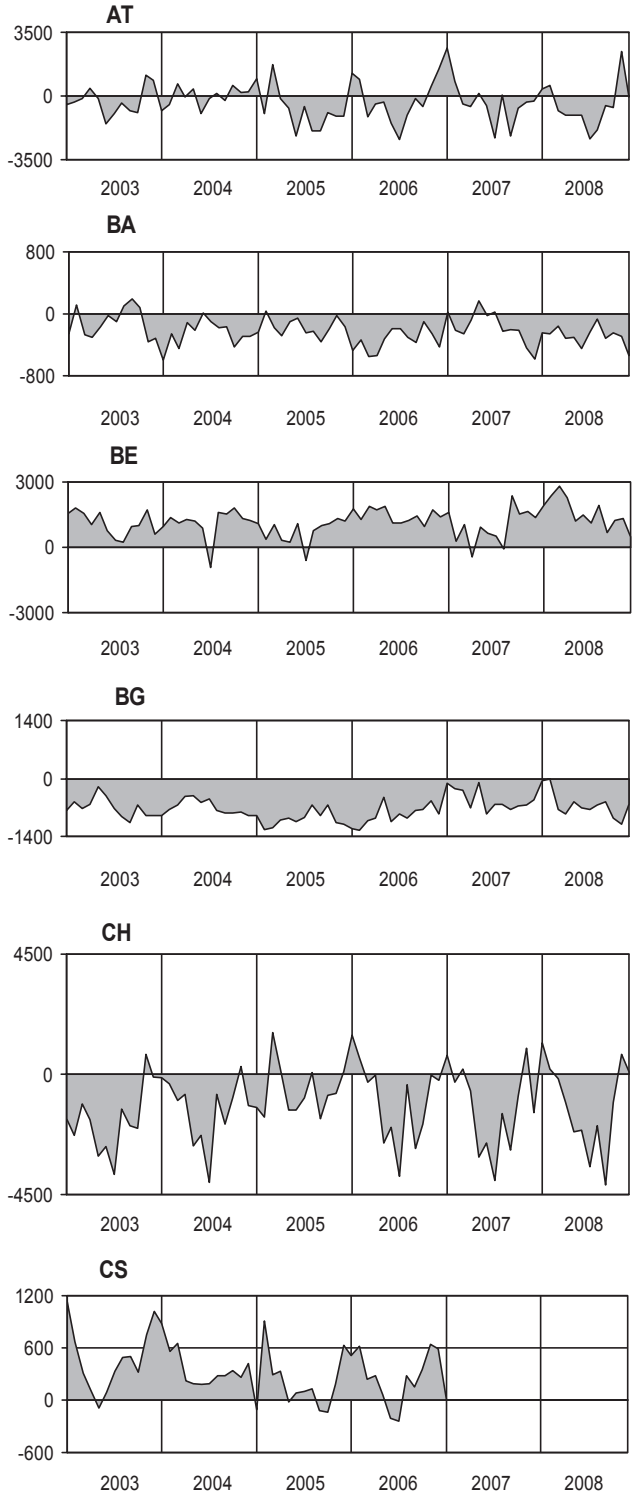
Scheduled exchanges in MWh

Control area	2008		January 2008				July 2008			
	Export Programs	Import Programs	Export Programs at 03:00	Import Programs at 03:00	Export Programs at 11:00	Import Programs at 11:00	Export Programs at 03:00	Import Programs at 03:00	Export Programs at 11:00	Import Programs at 11:00
AT	6590326	11854745	1486	697	1198	1229	1749	254	1150	805
BA	4422216	2737607	270	140	336	140	308	141	354	141
BE	3190838	15419748	0	1802	0	1938	1067	1672	0	1344
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	24170975	24324309	239	3158	2890	4090	4134	2794	4087	622
CZ	21171651	13889463	2930	722	3034	1087	2553	1105	2465	1360
DE	43956786	18471603	5266	1719	6363	1016	1147	4996	3762	3591
DK_W	9558409	4863562	452	781	980	1172	1446	0	2142	0
ES	16612006	5781168	1685	1177	1437	300	2057	1200	2205	300
FR	81425865	34761273	10354	4662	9582	3987	11338	1171	8935	4809
GR	492844	6115147	0	220	0	205	0	650	0	750
HR	742390	7234973	231	906	259	934	0	789	0	838
HU	9440039	13346773	1320	1598	1161	2023	837	1299	532	1566
IT	3395324	43284316	551	2028	101	6314	153	4545	81	5155
ME	2465439	4210984	189	472	189	522	45	328	5	343
MK	40000	2779700	0	286	0	426	0	289	0	433
NL	6663386	22502127	594	1394	246	1725	509	2935	544	2535
PL	3080870	2868249	448	0	448	438	261	395	300	815
PT	39955	9478604	0	1400	0	472	0	1400	0	1100
RO	5607779	1164469	776	79	815	116	500	117	665	173
RS	5934144	5786752	582	706	654	900	584	318	806	415
SI	7819099	6217936	779	680	901	778	955	399	889	572
SK	6464072	6129714	1628	1304	1755	1810	725	295	687	725
UA_W	4087081	58046	443	0	497	0	505	0	550	0

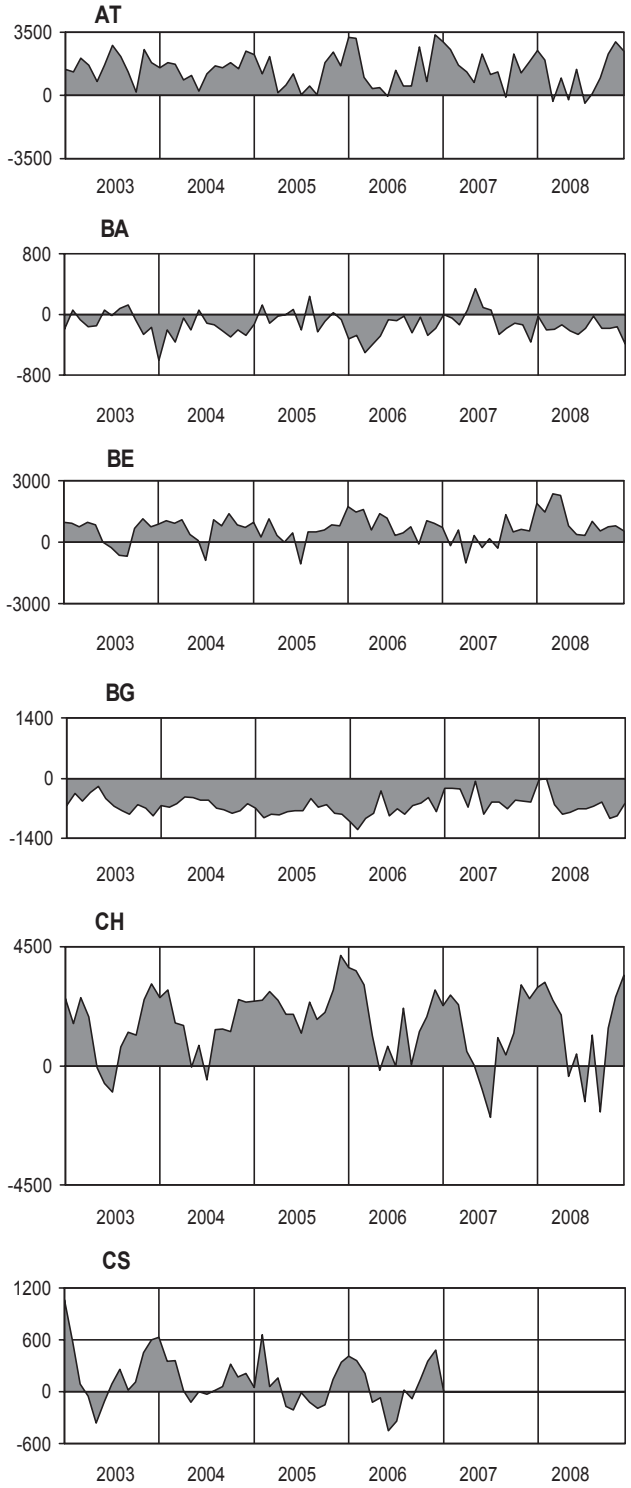
- Control areas can differ from national borders (i.e. German block which includes parts of AT, LU and DK_W).
- Values are calculated on an hourly base in MWh.
- This values are not the provisional values entered in the VULCANUS system, but the definitive values after an eventual correction during the actuel date.
- Export Programs: Sum of all positive values of every hour of every border as sum year 2008
- Import Programs: Sum of all negative values of every hour of every border as sum year 2008
- Export Programs at 03:00: Sum of all positive values the third Wednesday in January and July 2008 from 02:00 to 03:00 a.m.
- Import Programs at 03:00: Sum of all negative values the third Wednesday in January and July 2008 from 02:00 to 03:00 a.m.
- Export Programs at 11:00: Sum of all positive values the third Wednesday in January and July 2008 from 10:00 to 11:00 a.m.
- Import Programs at 11:00: Sum of all negative values the third Wednesday in January and July 2008 from 10:00 to 11:00 a.m

G3 Balance of the simultaneous power flows across the frontiers of the UCTE countries

11:00 **Day load in MW [1]**



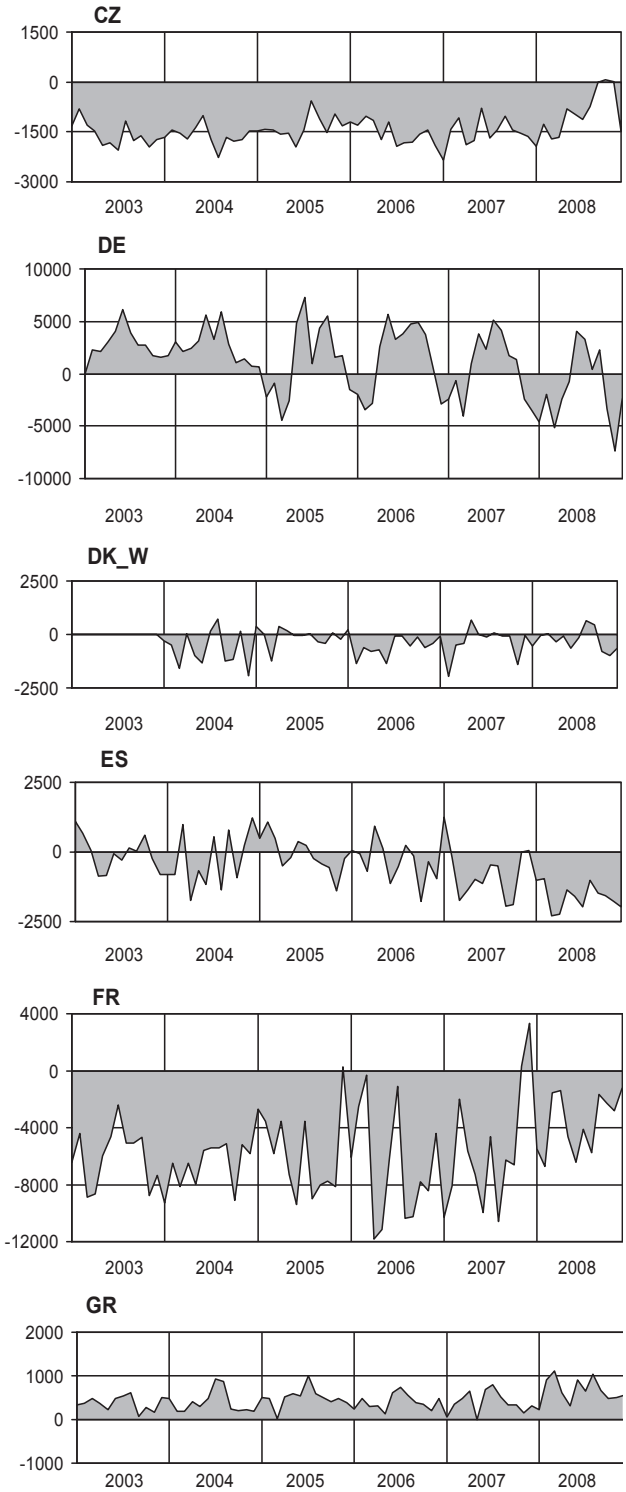
03:00 **Night load in MW [1]**



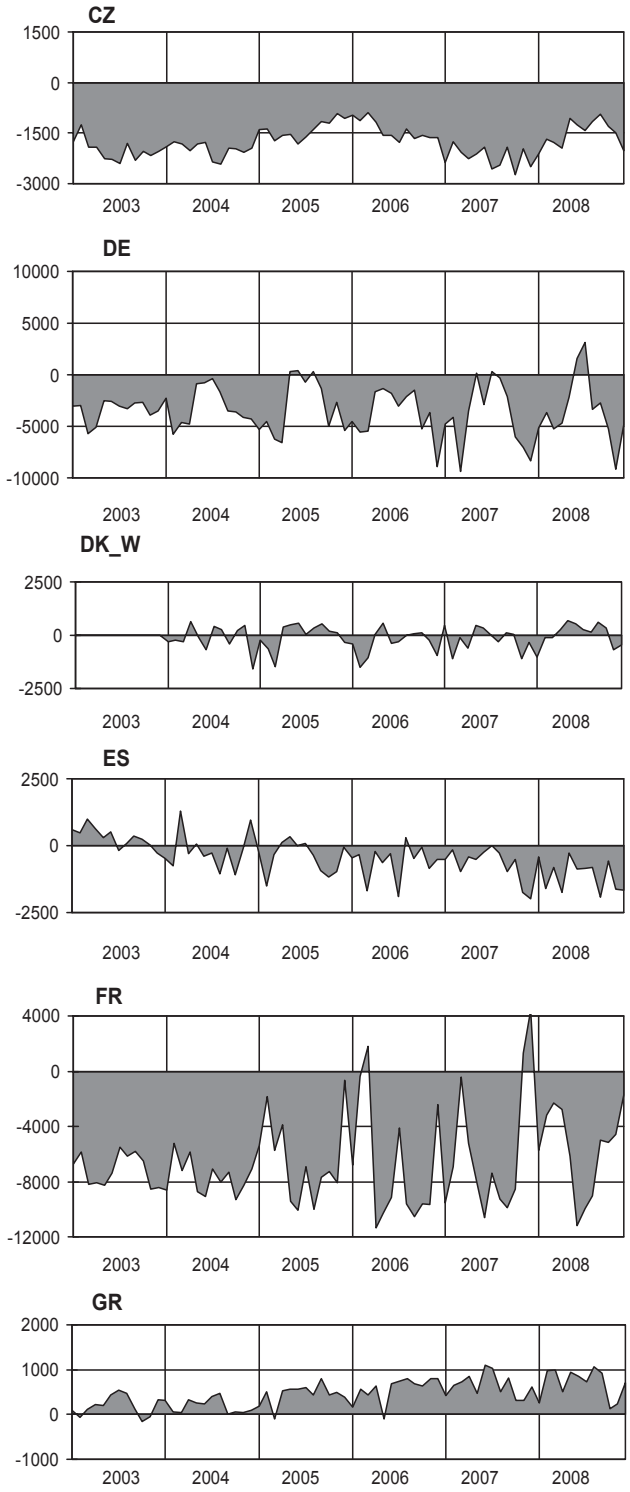
[1] Balance of import-export on the 3rd Wednesday of each month

G3 Balance of the simultaneous power flows across the frontiers of the UCTE countries

11:00 Day load in MW [1]



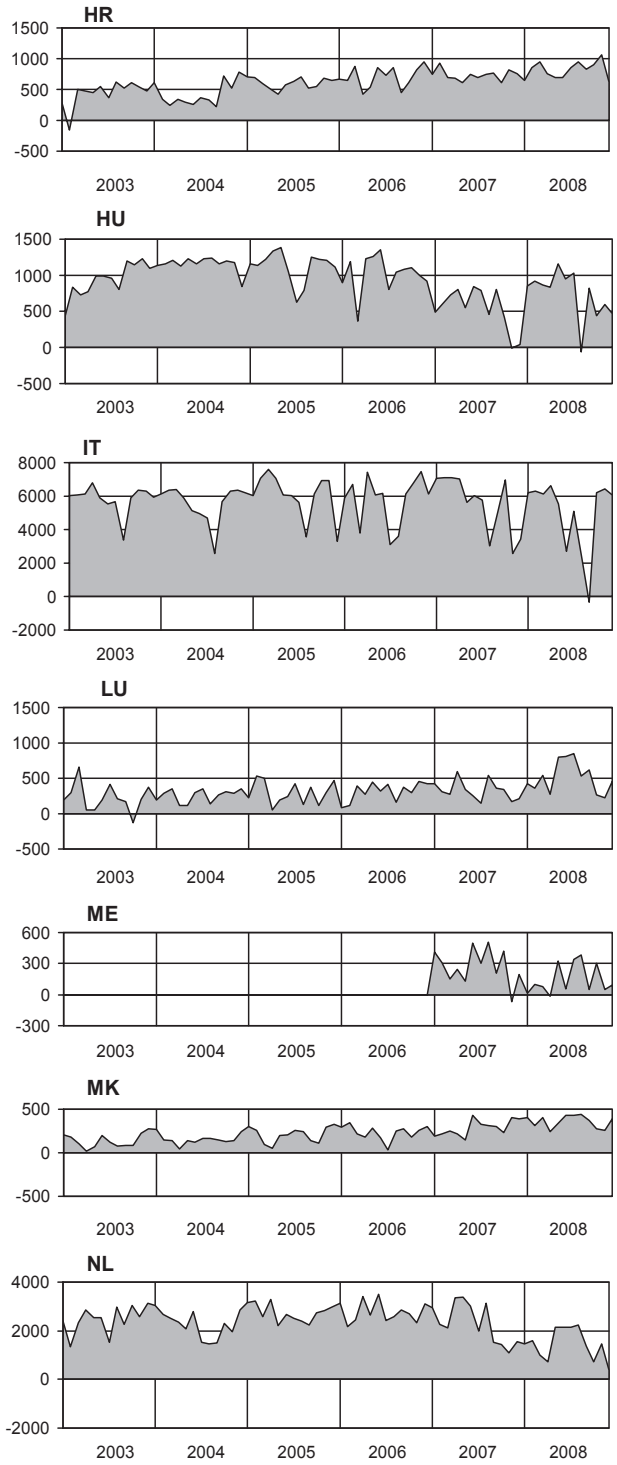
03:00 Night load in MW [1]



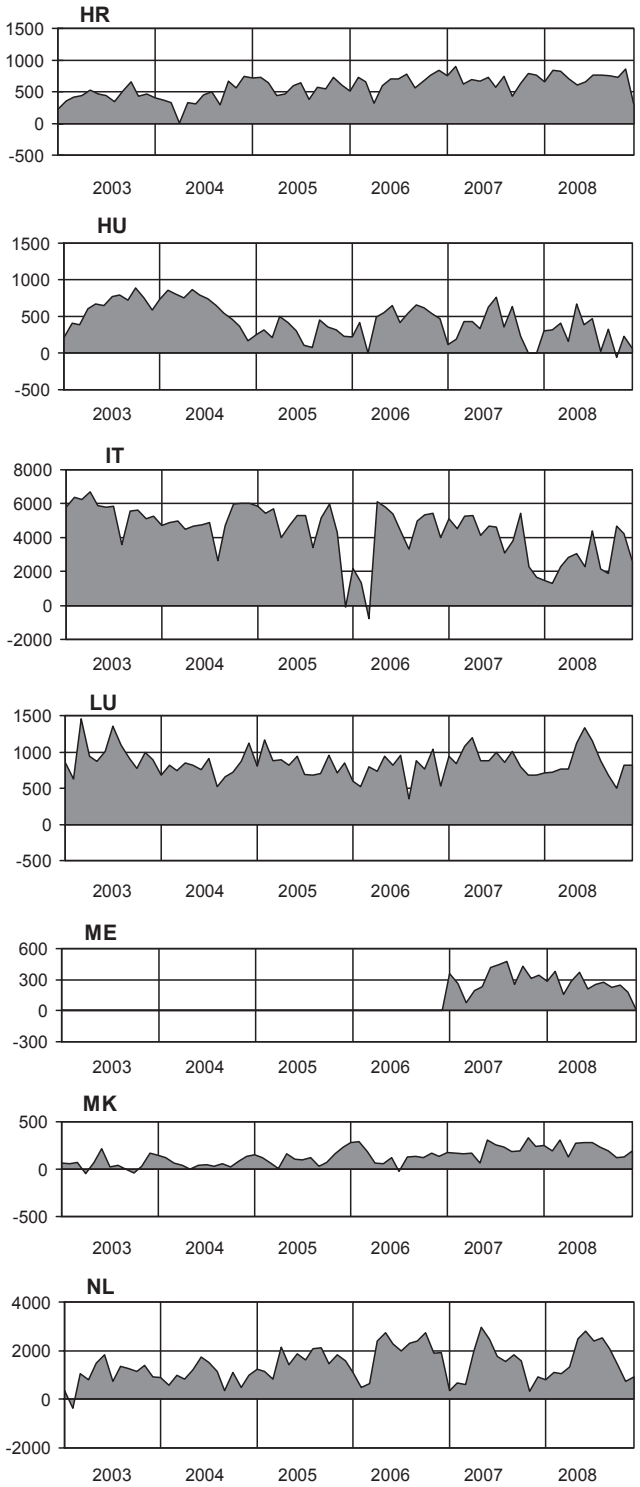
[1] Balance of import-export on the 3rd Wednesday of each month

G3 Balance of the simultaneous power flows across the frontiers of the UCTE countries

11:00 Day load in MW [1]



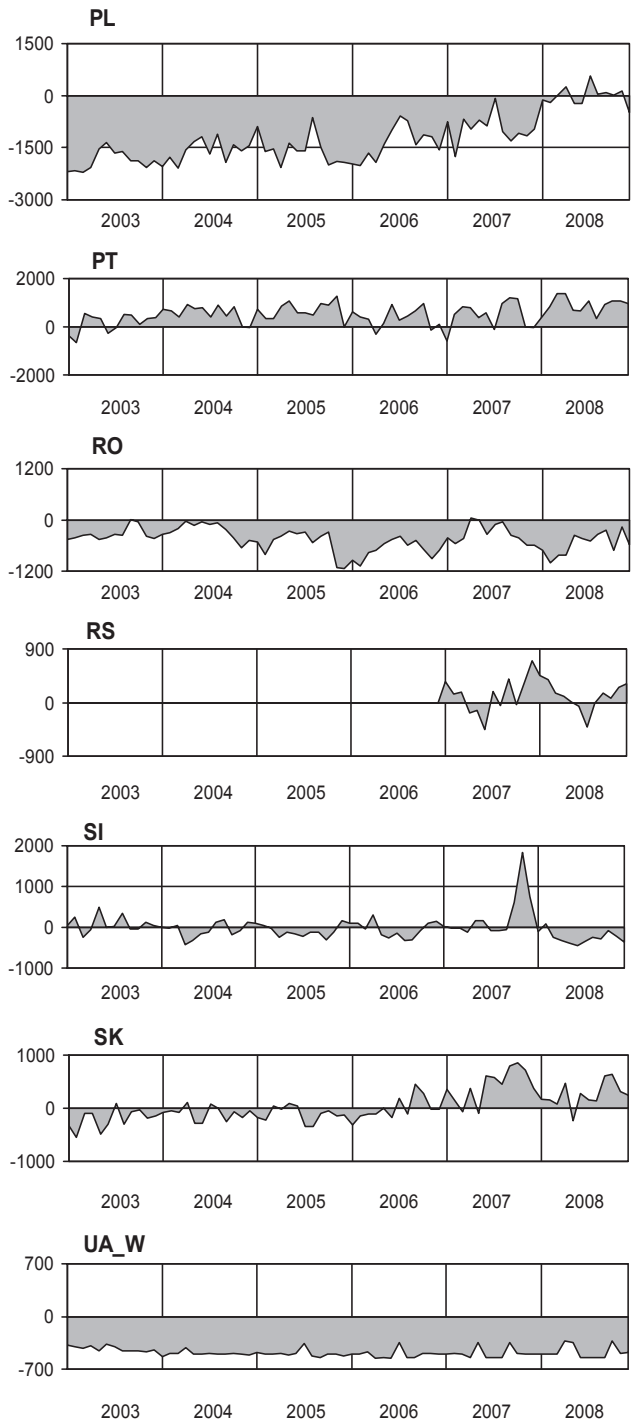
03:00 Night load in MW [1]



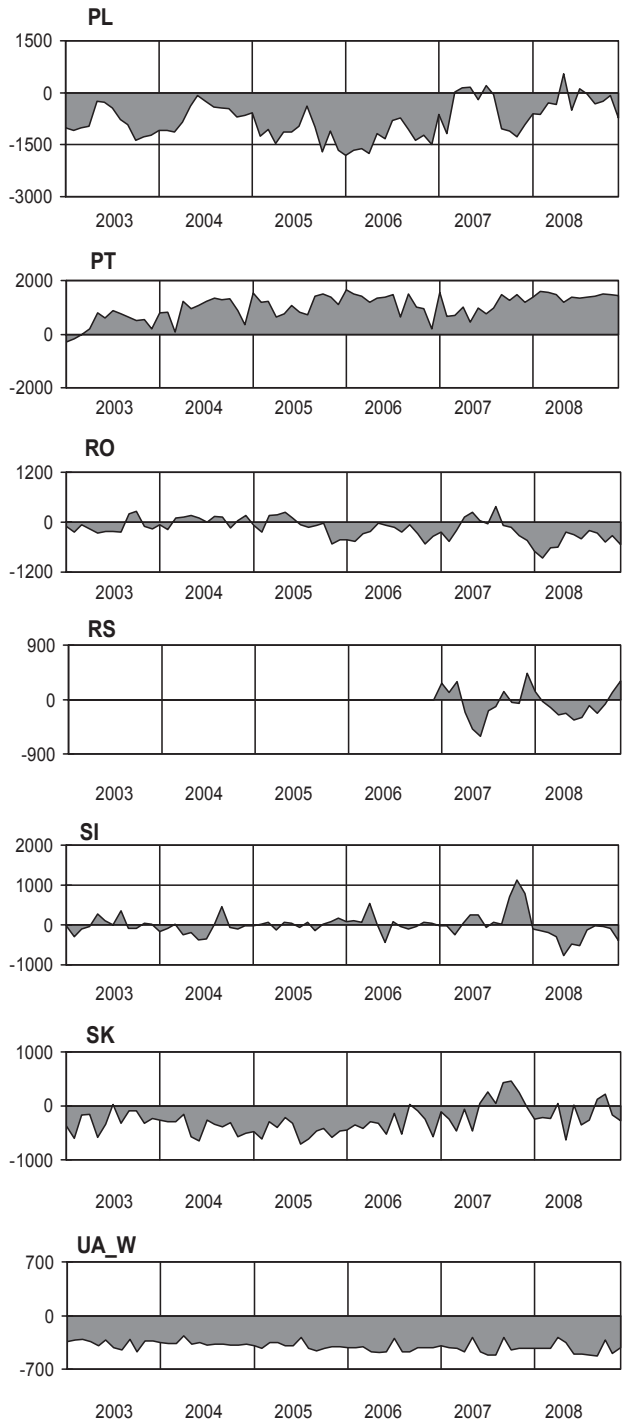
[1] Balance of import-export on the 3rd Wednesday of each month

G3 Balance of the simultaneous power flows across the frontiers of the UCTE countries

11:00 Day load in MW [1]



03:00 Night load in MW [1]



[1] Balance of import-export on the 3rd Wednesday of each month

Development of the simultaneous power flows across the frontiers of the UCTE countries [1]

Values in MW

Date	Night	Day	Date	Night	Day
I.2003[2]	32119	31521	I.2006	33189	39380
II.2003	28830	28596	II.2006	35935	39220
III.2003	32173	31062	III.2006	34048	35330
IV.2003	31075	32458	IV.2006	33833	37349
V.2003	28734	30022	V.2006	30974	33176
VI.2003	29938	32246	VI.2006	31574	34413
VII.2003	28929	28988	VII.2006	27811	30712
VIII.2003	26184	27360	VIII.2006	29425	31511
IX.2003	29103	29350	IX.2006	30387	32741
X.2003	27866	30843	X.2006	35170	35269
XI.2003	31576	35241	XI.2006	34951	38371
XII.2003	31604	33542	XII.2006	36861	37100
I.2004	29256	34182	I.2007	38361	44323
II.2004	29916	32890	II.2007	35103	39093
III.2004	28158	31485	III.2007	38724	39879
IV.2004	26784	29284	IV.2007	31042	35592
V.2004	25067	29647	V.2007	29604	31623
VI.2004	24757	26479	VI.2007[3]	33100	34083
VII.2004	26091	29950	VII.2007	32701	34488
VIII.2004	23333	26840	VIII.2007	29640	32111
IX.2004	28708	30714	IX.2007	31496	32702
X.2004	30693	33706	X.2007	37051	38615
XI.2004	32489	33415	XI.2007	37014	35286
XII.2004	36858	32395	XII.2007	38428	33916
I.2005	37275	33964	I.2008	33754	40167
II.2005	37569	37991	II.2008	31571	38189
III.2005	34802	39231	III.2008	35574	38794
IV.2005	32930	37448	IV.2008	31563	34232
V.2005	29743	31564	V.2008	24244	26511
VI.2005	33353	36145	VI.2008	27519	28774
VII.2005	30301	34641	VII.2008	27013	31179
VIII.2005	29701	30909	VIII.2008	28899	27271
IX.2005	30425	32967	IX.2008	23429	22437
X.2005	33755	35394	X.2008	30208	34776
XI.2005	33728	36159	XI.2008	32133	38123
XII.2005	32850	33209	XII.2008	32428	36042

[1] Day load at 11.00 a.m. and night load at 3.00 a.m. on the 3rd Wednesday of each month. The power flows crossing common borders with neighbouring third countries are excluded.
[2] From year 2003 on the power flows include RO and BG.
[3] From June 2007 on the power flows include DK_W.

T7 Net generating capacity on 31 December 2008, 2007 and 2003 in MW

Country	NGC Nuclear power MW			NGC Fossil fuels MW			NGC Hydro power MW			NGC Other sources [1] MW			NGC Total MW			Representativity [2] %		
	2008	2007	2003	2008	2007	2003	2008	2007	2003	2008	2007	2003	2008	2007	2003	2008	2007	2003
AT[3]	-	-	-	6344	6344	5900	11853	11853	11700	985	985	670	19182	19182	18270	100	100	100
BA	-	-	-	1957	1957	1957	2064	2064	2034	-	-	-	4021	4021	3991	100	100	99
BE	5825	5825	5761	8335	8226	8166	1412	1411	1408	1147	861	248	16719	16323	15583	100	100	99
BG	2000	2000	n.a.	6523	5800	n.a.	2993	2700	n.a.	113	9	n.a.	11629	10102	n.a.	100	100	n.a.
CH	3220	3220	3220	355	355	305	13475	13465	13295	540	530	515	17590	17570	17335	100	100	100
CS			-			6400			3497			-			9897			96
CZ	3537	3537	3537	10578	10542	10526	2175	2175	2128	190	163	11	16480	16417	16202	100	100	100
DE	20300	20300	20500	72300	70500	67700	9700	9100	8100	32400	28400	14900	134700	128300	111200	100	90	90
DK_W	-	-	-	5049	5173	5083	9	10	11	2774	2499	2374	7832	7682	7468	100	100	99
ES	7465	7465	7694	44074	43483	27615	19024	18914	18209	19791	15598	5284	90354	85460	58802	100	100	100
FR	63260	63260	63363	24718	24085	23172	25392	25404	24020	4283	3130	297	117653	115879	110852	100	100	97
GR[4]	-	-	-	8375	8049	7065	3177	3136	3059	940	784	354	12492	11969	10478	100	100	89
HR	-	-	-	1700	1700	1670	2007	2071	2071	55	55	-	3762	3826	3741	100	100	100
HU	1822	1799	1755	5360	5360	5657	50	46	48	1309	1208	538	8541	8413	7998	100	100	100
IT	-	-	-	72723	69022	56047	21275	21117	20660	4627	3459	1543	98625	93598	78250	100	100	100
LU	-	-	-	498	490	474	1128	1128	1128	80	69	43	1706	1687	1645	100	100	96
ME	-	-		210	190		660	649		-	9		870	848		100	100	
MK	-	-	-	907	907	907	503	503	418	-	-	-	1410	1410	1325	100	100	100
NL	485	485	449	21702	18911	18045	37	37	37	3036	2588	2028	25260	22021	20559	100	100	100
PL	-	-	-	29709	29818	29451	2327	2327	2192	473	318	73	32509	32463	31716	100	100	100
PT	-	-	-	6829	6703	5723	4963	4951	4554	3131	2435	387	14923	14089	10664	97	97	92
RO	1300	1300	655	9431	8995	9775	5843	5859	5970	7	7	-	16581	16161	16400	100	100	100
RS	-	-		5524	5524		2831	2831		-	-		8355	8355		100	100	
SI	700	696	670	1315	1260	1262	879	873	840	-	-	-	2894	2829	2772	100	100	100
SK	2200	2200	2640	2714	2767	2290	2478	2478	2429	61	63	700	7453	7508	8052	100	100	100
UCTE	**112114**	**112087**	**110244**	**347230**	**336161**	**295190**	**136255**	**135102**	**127808**	**75942**	**63170**	**29965**	**671541**	**646520**	**563207**			
UA_W	-	-	-	2347	2347	2347	27	27	27	-	-	-	2374	2374	2374	100	100	100

[1] Values of NGC Other sources are the sum of other renewable and other sources.
[2] Percentage as referred to the total values of a country
(The total values of a country are defined as the synchronously interconnected system plus the areas directly connected via AC or DC to the mainland system.)
[3] Year 2008 and 2007 NGC capacity as of 31 December 2006 (official values from E-Control)
[4] The values for Greece refer to the interconnected system and not to the whole country.

T8a

UCTE System Adequacy Retrospect 2008, Power Data

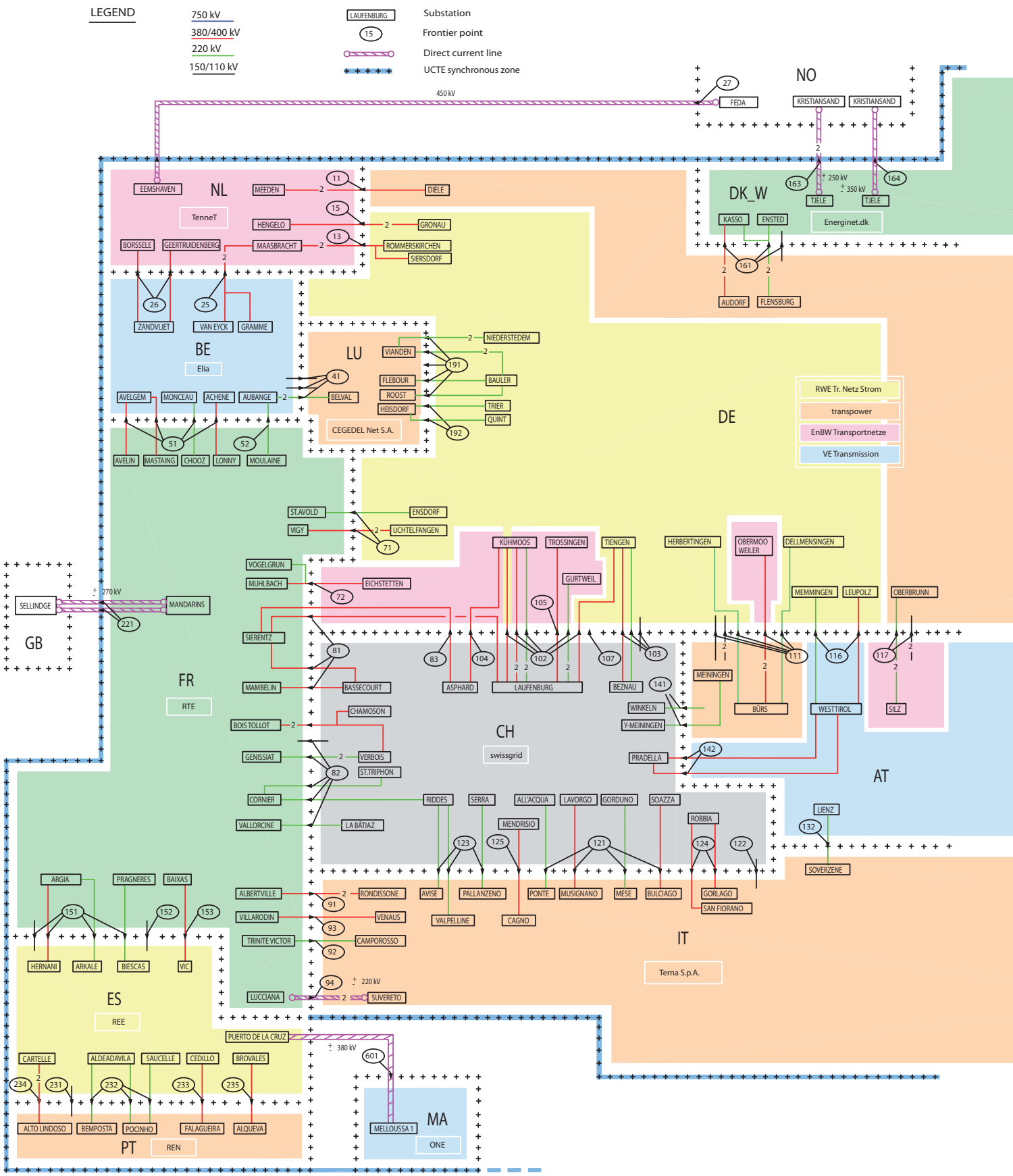
Net values at the refence time 11:00 a.m. on the 3rd Wednesday of each month (Data published on 29 June 2009) Values in GW

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1. Nuclear Power	112,1	112,1	112,1	112,1	112,1	112,1	112,1	112,1	112,1	112,1	112,1	111,9
2. Fossil Fuels	332,6	332,7	333,2	333,9	334,2	334,6	335,4	337,2	337,9	338,2	339,1	340,5
- of which Lignite sources	60,2	60,2	60,2	60,2	60,2	60,2	60,2	60,6	60,6	60,6	60,6	60,6
- of which Hard coal sources	82,3	82,3	82,2	82,2	82,1	82,1	82,0	82,0	82,0	82,0	82,0	82,0
- of which Gas sources	113,2	113,3	113,4	113,9	114,1	114,5	115,9	116,0	116,2	116,2	116,4	117,2
- of which Oil sources	32,0	32,0	32,2	34,9	32,3	32,3	32,4	32,4	32,5	32,6	33,0	33,2
- of which Mixed Fuels	34,8	34,8	35,1	32,6	35,4	35,4	35,8	36,0	36,4	36,6	36,9	37,4
3. Renewable energy sources (Other than Hydro)	62,0	62,7	63,6	64,6	65,3	65,8	66,5	67,2	69,6	69,1	70,1	71,3
- of which Wind	47,7	48,2	48,9	49,6	50,1	50,4	50,7	51,0	51,4	52,0	52,5	53,1
- of which Solar	5,1	5,3	5,3	5,5	5,6	5,8	6,1	6,2	6,1	7,2	7,5	8,1
4. Hydro power capacity (total)	135,5	135,5	135,5	135,5	135,6	135,6	135,6	135,6	135,6	135,6	135,6	135,6
5. Not clearly identifable energy sources capacity	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1
6. Net Generating Capacity (6 = 1+2+3+4+5)	**643,2**	**644,1**	**645,4**	**647,2**	**648,2**	**649,2**	**650,7**	**653,2**	**656,4**	**656,2**	**658,0**	**660,5**
7. Non-usable capacity	118,3	135,0	128,0	134,7	133,6	136,9	143,2	148,9	145,3	145,0	131,2	131,1
8. Maintenance and Overhauls	21,7	25,9	31,9	43,9	57,7	55,0	49,3	48,2	54,5	44,5	31,2	16,8
9. Outages	19,1	14,1	17,4	14,9	15,5	18,3	16,1	18,9	19,4	18,3	18,4	18,2
10. System Services Reserve	27,8	28,7	28,3	27,3	26,5	26.8	26,9	25,9	26,6	26,2	28,0	28,1
11. Unavailable Capacity (11 = 7+8+9+10)	**186,9**	**203,7**	**205,6**	**220,8**	**233,4**	**237,1**	**235,5**	**241,9**	**245,8**	**233,9**	**208,7**	**194,2**
12. Reliably Available Capacity (12 = 6-11)	**456,3**	**440,4**	**439,9**	**426,4**	**414,9**	**412,2**	**415,2**	**411,3**	**410,6**	**422,2**	**449,2**	**466,3**
13. Load	**371,1**	**360,0**	**343,0**	**336,0**	**318,2**	**319,8**	**324,2**	**300,8**	**322,0**	**323,6**	**344,1**	**361,4**
14. Remaining Capacity (14 = 12-13)	**85,1**	**80,2**	**96,8**	**90,3**	**96,5**	**92,2**	**94,7**	**110,3**	**88,5**	**98,5**	**106,2**	**104,8**
15. Margin Against Monthly Peak Load	22,0	18,7	29,0	18,5	15,3	25,6	19,1	32,5	24,1	23,1	34,4	31,5
16. Remaining Margin (16 = 14-15)	**63,1**	**61,5**	**67,8**	**71,8**	**81,2**	**66,6**	**75,6**	**77,9**	**64,3**	**75,4**	**71,8**	**73,3**
17. Physical Imports	42,5	41,7	40,7	36,0	29,0	31,3	34,8	28,7	24,3	37,0	41,4	38,7
18. Physical Exports	42,0	38,2	38,9	33,5	28,7	30,6	32,5	30,6	24,4	35,2	38,1	35,9
19. Exchanges (19=17-18)	**0,5**	**3,5**	**1,8**	**2,5**	**0,3**	**0,6**	**2,3**	**- 2,0**	**- 0,1**	**1,8**	**3,3**	**2,8**

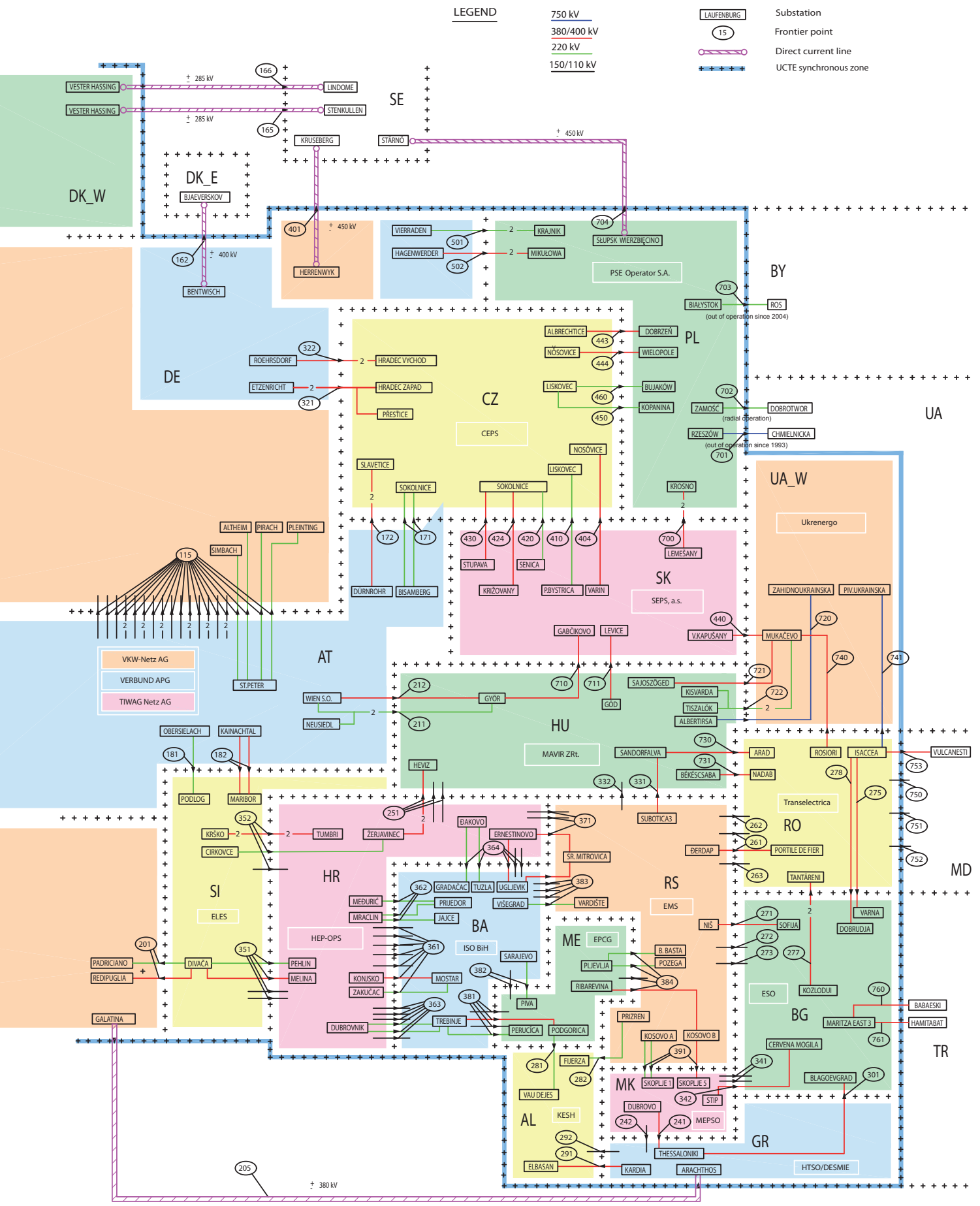
T8b **UCTE System Adequacy Retrospect 2008, Energy Data (Data published on 29 June 2009)** **Values in TWh**

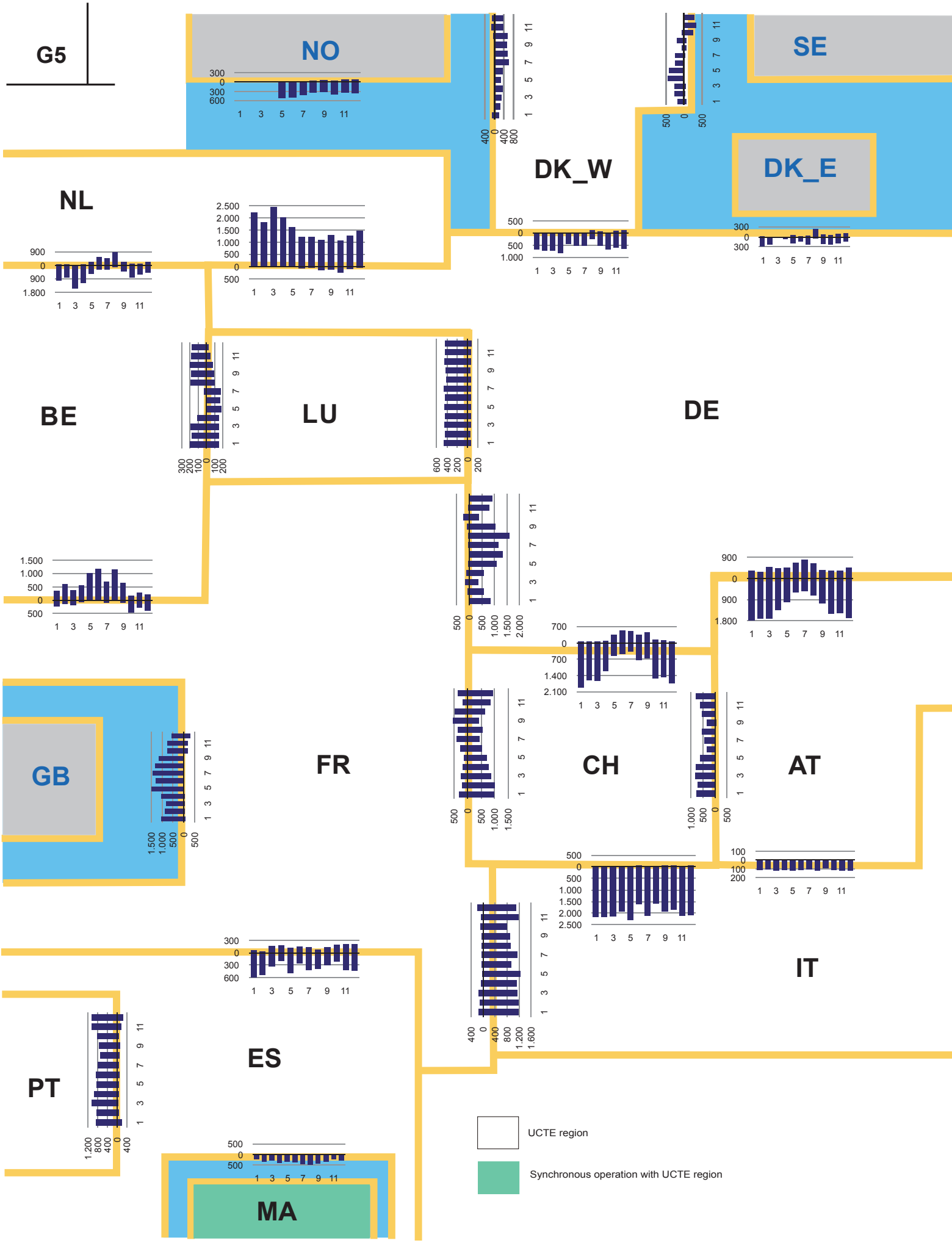
	AT	BA	BE	BG	CH	CZ	DE	ES	FR	GR	HR	HU	IT	LU	ME	MK	NL	PL	PT	RO	RS	SI	SK	UA_W
1. Nuclear power	-	-	43,4	14,8	26,1	25,0	141,1	56,3	418,3	-	-	14,0	-	-	-	-	3,9	-	-	10,3	-	6,0	15,5	-
2. Fossil Fuels	21,6	8,7	31,3	22,6	2,1	49,4	362,8	163,5	53,3	46,7	6,1	18,3	248,5	2,4	1,2	5,0	91,5	140,8	27,3	32,6	29,7	4,9	7,3	-
- of which Lignite	-	8,7	-	-	-	38,0	137,6	13,5	-	29,9	-	4,7	-	-	1,2	4,9	-	49,6	-	19,0	28,5	4,4	2,0	-
- of which Hard Coal	5,2	-	3,5	-	-	5,6	118,3	30,2	21,4	-	2,3	1,6	48,1	-	-	-	26,1	87,3	10,4	4,3	-	0,4	1,4	-
- of which Gas	10,9	-	23,0	-	-	4,3	80,2	113,3	14,6	13,3	1,6	9,9	145,6	2,4	-	-	53,7	3,9	14,3	2,6	0,4	0,0	1,7	-
- of which Oil	1,2	-	0,1	-	-	0,2	9,5	5,8	7,2,	3,5	1,0	0,0	21,9	-	-	0,1	2,3	-	2,0	-	-	-	-	-
- of which Mixed Fuels	-	-	3.5	-	-	1,2	-	-	-	-	1,2	2,0	17,9	-	-	-	9,4	-	0,5	6,7	0,8	-	-	-
3. Renewable Energy Sources (other than hydro)	-	-	4,2	-	1,2	0,3	70,6	36,1	9,6	1,9	0,0	1,5	11,8	0,2	-	-	8,9	0,9	7,4	0,0	-	-	0,3	-
- of which Wind	-	-	0,6	-	0,0	0,2	40,2	31,1	5,6	1,7	0,0	0,2	6,6	0,1	-	-	4,3	0,8	5,7	0,0	-	-	0,0	-
- of which Solar	-	-	-	-	-	0,0	4,0	1,0	0,0	0,0	-	-	-	-	-	-	0,0	-	0,0	-	-	-	-	-
4. Hydro Power	36,7	4,6	1,7	3,2	37,6	2,4	26,5	25,7	68,0	3,3	5,3	0,2	44,9	0,9	1,5	0,9	0,1	2,7	7,1	16,8	10,0	3,5	4,3	-
- of which Storage	-	-	1,3	-	-	-	-	15,7	27,4	2,5	1,9	-	-	0,0	1,5	-	-	0,4	1,5	9,4	0,7	-	1,8	-
- of which Run-of-River	-	-	0,4	-	-	-	-	7,8	34,6	-	1,0	0,2	-	0,0	-	-	-	1,4	4,6	7,4	8,8	3,5	2,2	
- of which Pumped-Storage	-	-	-	-	-	0,4	-	2,1	6,0	0,8	0,2	-	-	0,4	-	-	-	0,6	1,0	-	0,5	-	0,1	
5. Non-Identifiable Energy Sources	8,5	-	-	-	-	-	-	0,4	-	-	-	2,4	-	-	-	-	-	-	-	-	-	0,1	-	-
6. Total Generation	**66,8**	**13,2**	**80,6**	**40,6**	**67,0**	**77,1**	**601,0**	**281,9**	**549,1**	**51,9**	**11,4**	**36,3**	**305,2**	**3,5**	**2,7**	**5,9**	**104,4**	**144,4**	**41,8**	**59,8**	**39,7**	**14.4**	**27,4**	**-**
7a.Physical imports	19,8	3,4	17,2	3,1	30,5	8,5	40,2	5,9	10,3	7,6	12,2	12,8	43,3	6,8	3,4	3,9	25,0	9,0	10,6	2,6	9,1	6,2	9,4	-
7b.Physical exports	14,9	5,0	6,6	8,4	30,5	20,0	62,7	16,5	58,3	2,0	5,7	8,9	3,4	2,5	1,5	1,2	9,1	9,7	1,3	7,0	8,6	7.8	8,9	-
7. Exchange	**4,9**	**-1,7**	**10,6**	**-5,3**	**0,0**	**-11,5**	**-22,5**	**-10,6**	**-48,0**	**5,6**	**6,6**	**3,9**	**39,9**	**4,4**	**1,9**	**2,7**	**16,0**	**-0,7**	**9,3**	**-4,4**	**0,6**	**-1,6**	0,5	**-**
8. Pumped Storage	3,3	-	1,8	0,7	2,7	0,5	7,8	3,7	6,6	1,2	0,2	-	7,5	1,2	-	-	-	0,9	0,6	0,1	0,9	-	0,3	-
9. Consumption	**68,4**	**11,6**	**89,6**	**34,5**	**64,2**	**65,1**	**570,7**	**267,6**	**494,5**	**56,3**	**17,8**	**40,2**	**337,6**	**6,7**	**4,6**	**8,6**	**120,3**	**142,9**	**50,4**	**55,2**	**39,4**	**12,8**	**27,6**	**-**

Simplified diagram of the cross-frontier transmission lines of the synchronous area of continental Europe as of 31 December 2008



Simplified diagram of the cross-frontier transmission lines of the synchronous area of continental Europe as of 31 December 2008




G5
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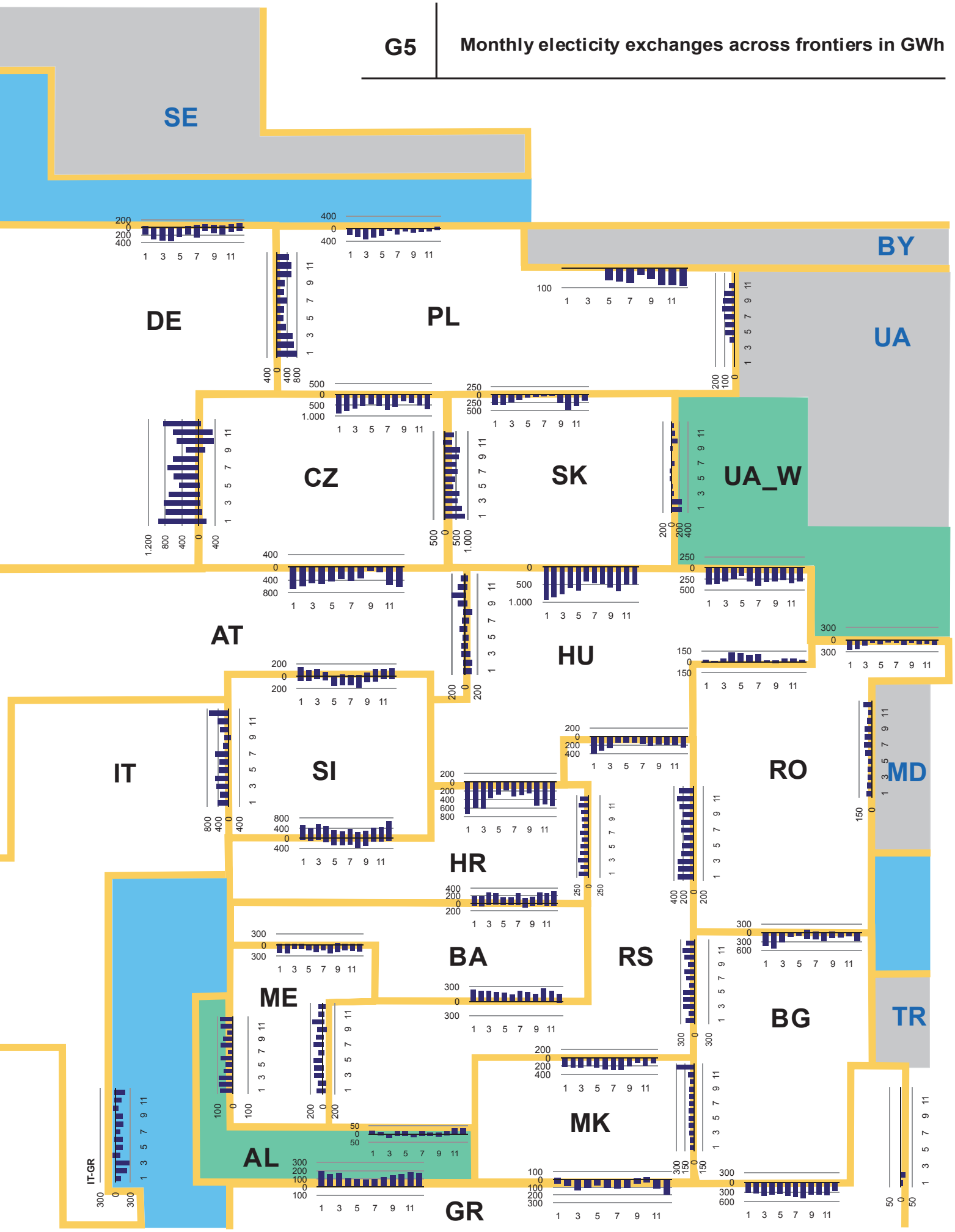
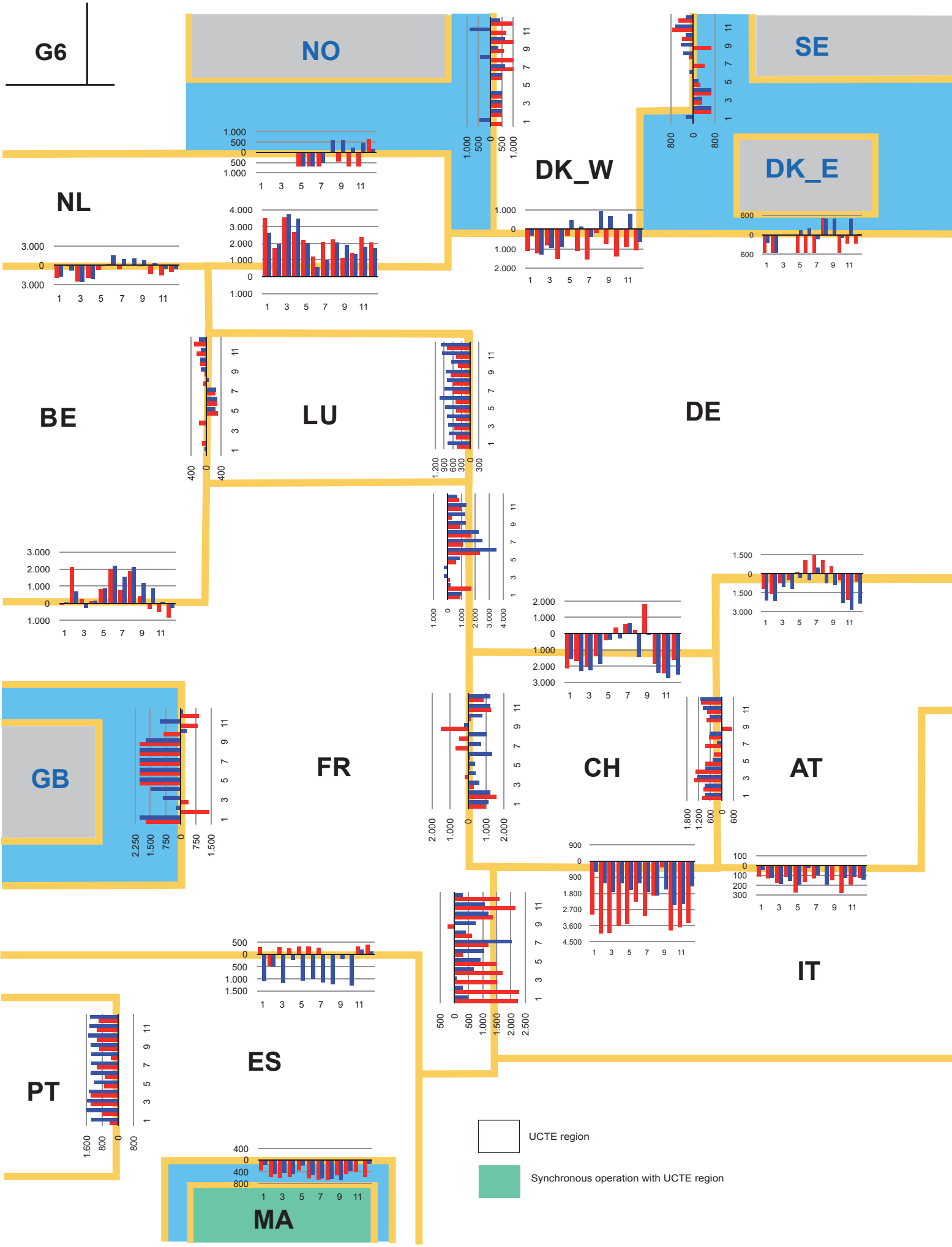
UCTE region
Synchronous operation with UCTE region

G5 Monthly electicity exchanges across frontiers in GWh




G6
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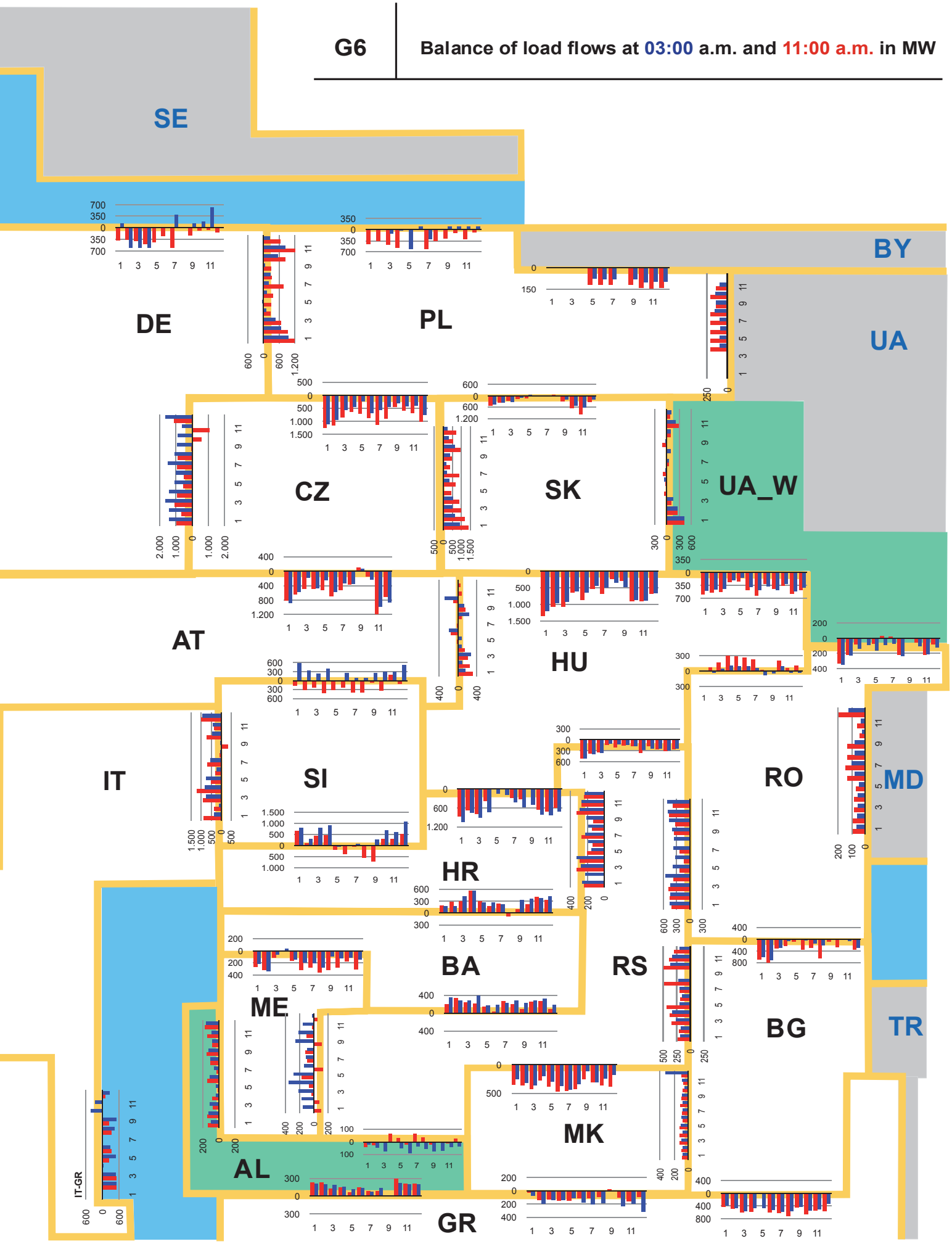
UCTE region
Synchronous operation with UCTE region

G6 Balance of load flows at 03:00 a.m. and 11:00 a.m. in MW



	Observations
[1]	Limited by phase shifting transformer in Meeden
[2]	Limited by phase shifting transformer in Meeden
[3]	Transformer in Borssele
[4]	DC submarine cable; Unit is MW instead of MVA
[5]	Transducer
[6]	Installed in Verbois
[7]	Cross-border power station (220/130)
[8]	Cross-border power station (220/130)
[9]	Cross-border power station (220/130)
[10]	Line property EnBW Netz in Germany partielly on the same tower as line Asphard-Kühmoos or Sierentz-Laufenburg; Line owned and operated by EnBW in Germany
[11]	DC link with three connections
[12]	Transforming station of Lucciana in Corsica
[13]	DC link with three connections
[14]	Transforming station of Lucciana in Corsica
[15]	Partially on the same tower as the Laufenbourg-Engstlatt line (No. 105.1)
[16]	On the same tower as line No. 81 Laufenburg-Sierentz 380 kV
[17]	From Kühmoos to Laufenbourg on the same tower
[18]	Limited by measuring transducer at Laufenbourg
[19]	From Kühmoos to Laufenbourg on the same tower
[20]	On the same tower as line Sierentz-Laufenburg
[21]	On CH side 220 kV
[22]	Limited by switching devices in Austria
[23]	Disconnected till approx. 2010; afterwards line will be dismantled
[24]	Cable at Braunau
[25]	Cable at Braunau

T 9

Circuit ID (Frontier point.Line.Circuit)	Connection between: From substation Country	From substation Name	From substation Operated by	to substation Country	to substation Name	to substation Operated by	Voltage of the circuit Forecast	Voltage of the circuit Present	Conventional transmission capacity of the connection (thermal)* Forecast	Conventional transmission capacity of the connection (thermal)* Present	Limited by the transformers or by the substations of circuits at	of circuits Voltage	of lines Transmission capacity	of lines Voltage
Nr.							kV	kV	MVA	MVA	MVA	kV	MVA	kV
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
11.1.1	DE	Diele	transpower	NL	Meeden	TenneT TSO B.V.		380		1382	1000 [1]			
11.1.2	DE	Diele	transpower	NL	Meeden	TenneT TSO B.V.		380		1382	1000 [2]			
13.1.1	DE	Siersdorf	RWE Transportnetz Strom	NL	Maasbracht	TenneT TSO B.V.		380		1645				
13.1.2	DE	Rommerskirchen	RWE Transportnetz Strom	NL	Maasbracht	TenneT TSO B.V.		380		1698				
15.1.1	DE	Gronau	RWE Transportnetz Strom	NL	Hengelo	TenneT TSO B.V.		380		1790				
15.1.2	DE	Gronau	RWE Transportnetz Strom	NL	Hengelo	TenneT TSO B.V.		380		1790				
25.1.1	BE	Van Eyck	Elia	NL	Maasbracht	TenneT TSO B.V.		380		1207				
25.1.2	BE	Van Eyck	Elia	NL	Maasbracht	TenneT TSO B.V.		380		1270				
26.1.1	BE	Zandvliet	Elia	NL	Geertruidenberg	TenneT TSO B.V.		380		1476				
26.2.1	BE	Zandvliet	Elia	NL	Borssele	TenneT TSO B.V.		380		1476	450 [3]			
27.1.1	NO	Feda	Statnett	NL	Eemshaven	TenneT TSO B.V.		450		700 [4]				
41.1.1	BE	Aubange	Elia	LU	Belval	SOTEL		220		358				
41.1.2	BE	Aubange	Elia	LU	Belval	SOTEL		220		358				
41.2.1	BE	Aubange	Elia	LU	Belval	SOTEL		150		157	100			
41.3.1	BE	Aubange	Elia	LU	Belval	SOTEL		150		157	100			
51.1.1	BE	Monceau	Elia	FR	Chooz	RTE		220		356				
51.2.1	BE	Avelgem	Elia	FR	Mastaing	RTE		380		1207				
51.2.2	BE	Avelgem	Elia	FR	Avelin	RTE		380		1367				
51.3.1	BE	Achène	Elia	FR	Lonny	RTE		380		1177				
52.1.1	BE	Aubange	Elia	FR	Moulaine	RTE		220		286				
71.1.1	DE	Uchtelfangen	RWE Transportnetz Strom	FR	Vigy	RTE		380		1790				
71.1.2	DE	Uchtelfangen	RWE Transportnetz Strom	FR	Vigy	RTE		380		1790				
71.2.1	DE	Ensdorf	RWE Transportnetz Strom	FR	St-Avold	RTE		220		261				
72.1.1	DE	Eichstetten	EnBW Transportnetze	FR	Vogelgrün	RTE	380	220		338 [5]		220		
72.1.2	DE	Eichstetten	EnBW Transportnetze	FR	Muhlbach	RTE		380		1751				
81.1.1	CH	Bassecourt	swissgrid	FR	Sierentz	RTE		380		1186				
81.2.1	CH	Laufenburg	swissgrid	FR	Sierentz	RTE		380		1167				
81.3.1	CH	Bassecourt	swissgrid	FR	Mambelin	RTE		380		1046				
82.1.1	CH	Verbois	swissgrid	FR	Bois-Tollot	RTE		380		1211	800	220 [6]		
82.1.2	CH	Chamoson	swissgrid	FR	Bois-Tollot	RTE		380		1409	600			
82.2.1	CH	Verbois	swissgrid	FR	Génissiat	RTE		220		315				11[7]
82.2.2	CH	Verbois	swissgrid	FR	Génissiat	RTE		220		315				11[8]
82.3.1	CH	Verbois	EOS	FR	Chancy-Pougny	SFM C-P		130		52	42			11[9]
82.4.1	CH	La Bâtiaz	swissgrid	FR	Vallorcine	RTE		220		266				
82.5.1	CH	Riddes	swissgrid	FR	Cornier	RTE		220		275				
82.6.1	CH	St.-Triphon	swissgrid	FR	Cornier	RTE		220		275				
83.1.1 [10]	CH/DE	Asphard	swissgrid/EnBW Tr.netze Strom	FR	Sierentz	RTE		380		1167				
91.1.1	FR	Albertville	RTE	IT	Rondissone	Terna		380		1244				
91.1.2	FR	Albertville	RTE	IT	Rondissone	Terna		380		1244				
92.1.1	FR	Trinite Victor	RTE	IT	Camporosso	Terna		220		320				
93.1.1	FR	Villarodin	RTE	IT	Venaus	Terna		380		956				
94.1.1 [11]	FR	Lucciana	EDF	IT	Suvereto	Terna		220 [12]		300			50	
94.1.2 [13]	FR	Lucciana	EDF	IT	Suvereto	Terna		220 [14]		300			50	
95.1.1	FR	Bonifacio	EDF	IT	Santa Teresa	Terna		150		53				
102.1.1 [15]	CH	Laufenburg	swissgrid	DE	Gurtweil	EnBW Transportnetze		220		469		220		
102.1.2	CH	Laufenburg	swissgrid	DE	Gurtweil	EnBW Transportnetze		220		469		220		
102.2.1 [16]	CH	Laufenburg	swissgrid	DE	Kühmoos	EnBW Transportnetze		220		410				
102.3.1 [17]	CH	Laufenburg	swissgrid	DE	Kühmoos	EnBW Transportnetze	380	220		430		220		
102.3.2	CH	Laufenburg	swissgrid	DE	Kühmoos	EnBW Transportnetze		380		1620	1580			
102.4.1	CH	Laufenburg	swissgrid	DE	Kühmoos	EnBW Transportnetze		380		1620	1580			
102.4.2	CH	Laufenburg	swissgrid	DE	Kühmoos	RWE Transportnetz Strom		380		1620	1265 [18]			
102.5.1 [19]	CH	Laufenburg	swissgrid	DE	Tiengen	RWE Transportnetz Strom		380		1131				
103.1.1	CH	Beznau	swissgrid	DE	Tiengen	RWE Transportnetz Strom		380		1158				
103.1.2	CH	Beznau	swissgrid	DE	Tiengen	RWE Transportnetz Strom	380	220		335				
103.1.3	CH	Klingnau	AWAG	DE	Tiengen	RWE Transportnetz Strom	380	110		57	40			
104.1.1 [20]	CH	Asphard	swissgrid	DE	Kühmoos	EnBW Transportnetze		380		1340				
105.1.1	CH	Laufenburg	swissgrid	DE	Trossingen	EnBW Transportnetze		380		1580				
107.1.1 [21]	CH	Laufenburg 220kV	swissgrid	DE	Laufenburg 110 kV	ED		110		200				
111.1.1	AT	Bürs	VIW	DE	Obermooweiler	EnBW Transportnetze		380		1369				
111.1.2	AT	Bürs	VIW	DE	Obermooweiler	EnBW Transportnetze		380		1369				
111.2.1	AT	Bürs	VIW	DE	Herbertingen	RWE Transportnetz Strom		220		389				
111.3.1	AT	Bürs	VIW	DE	Dellmensingen	RWE Transportnetz Strom		220		492	457 [22]			
111.4.1	AT	Rieden	VKW -Netz	DE	Lindau	VKW -Netz		110		84				
111.4.2	AT	Hörbranz	VKW -Netz	DE	Lindau	VKW -Netz		110		84				
111.5.1	AT	Vorderwald	VKW -Netz	DE	Weiler	VKW -Netz		110		127				
115.1.1	AT	Braunau	Verbund - APG	DE	Neuötting	transpower		110		90 [23]			82 [24]	
115.2.1	AT	Braunau	Verbund - APG	DE	Stammham	transpower		110		102			82 [25]	
115.4.1	AT	Antiesenhofen	Verbund - APG	DE	Egglfing	transpower		110		102				

*The conventional transmission capacity of cross-frontier tie-lines is based upon parameters standardised within UCTE for the calculation of the thermal load capability of each line. For areal lines these are : ambient temperature of + 35°C, wind velocity of 0,56 m/s at a right angle to the line as well as the voltage value stated in column 10 or 11. The conditions relevant to system operation in various countries at various time of the year can strongly differ from those above. Because the real allowable load capability of the line depends on many other factors, such as load flow distribution, upholding of voltage, real ambient conditions, limits of stability, n-1 security, etc., the conventional transmission capacity has no relevance from the point of view of system operation or economics but allows just a comparison of order of magnitude of the various lines. Adding together the conventional transmission capacity of several tie-lines does not allow to infer on the real total transmission capability and leads to irrelevant results from the point of view of system operation.

	Observations
[26]	Transducer at Ering
[27]	Transducer at Ering
[28]	Isolator in St. Peter
[29]	Isolator in St. Peter
[30]	Only temporary line; from December 2005 till summer 2006; afterwards disconnected till approx.2010
[31]	No international interconnector
[32]	CFT blocker at St. Peter
[33]	No international interconnector
[34]	CFT blocker at St. Peter
[35]	Switching device at Oberbrunn
[36]	Switching device at Oberbrunn
[37]	Possible to lay a second circuit
[38]	New substation with 400kV near spanish frontier: replace Cantegrit
[39]	Limited by transformer in Enstedt
[40]	Limited by transformer in Kassø
[41]	Transducer at Kassø
[42]	Transducer at Kassø
[43]	DC submarine and underground cable
[44]	DC submarine and underground cable
[45]	DC submarine and underground cable
[46]	Under water cable
[47]	Under water cable
[48]	Under water cable
[49]	Generator line in radial operation - interconnected operation impossible
[50]	Installed at Vianden
[51]	Generator line in radial operation - interconnected operation impossible
[52]	Installed at Vianden
[53]	Generator line in radial operation - interconnected operation impossible
[54]	Installed at Vianden

Circuit ID (Frontier point.Line.Circuit)	Connection between: From substation Country	From substation Name	From substation Operated by	to substation Country	to substation Name	to substation Operated by	Voltage of the circuit Forecast	Voltage of the circuit Present	Conventional transmission capacity of the connection (thermal)* Forecast	Conventional transmission capacity of the connection (thermal)* Present	Limited by the transformers or by the substations: of circuits at	of circuits Voltage	of lines Transmission capacity	of lines Voltage
Nr.							kV	kV	MVA	MVA	MVA	kV	MVA	kV
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
115.5.1	AT	St. Peter	Verbund - APG	DE	Altheim	transpower		220		301				
115.6.1	AT	St. Peter	Verbund - APG	DE	Simbach	transpower		220		301				
115.7.1	AT	St. Peter	Verbund - APG	DE	Ering	transpower		110		152	137		114 [26]	
115.7.2	AT	St. Peter	Verbund - APG	DE	Ering	transpower		110		152	137		114 [27]	
115.8.1	AT	St. Peter	Verbund - APG	DE	Egglfing	transpower		110		105				
115.9.1	AT	St. Peter	Verbund - APG	DE	Pirach	transpower		220		518	457 [28]			
115.10.1	AT	St. Peter	Verbund - APG	DE	Pleinting	transpower		220		518	457 [29]			
115.11.1	AT	Ranna	EAGOÖ-Netz	DE	Passau/Hauzenberg	transpower		110		90 [30]				
115.12.1	AT	Oberaudorf	TIWAG-Netz	DE	Rosenheim	transpower		110		93				
115.13.1	AT	Oberaudorf	TIWAG-Netz	DE	Kiefersfelden	transpower		110		102				
115.14.1	AT	Antiesenhofen	EAGOÖ-Netz	DE	Weidach	Thüga		110		130				
115.14.2	AT	Antiesenhofen	EAGOÖ-Netz	DE	Weidach	Thüga		110		130				
115.15.1	AT	Aigerding	Verbund - APG/EAGOÖ-Netz	DE	Passau	Verbund - APG		110		102				
115.16.1 [31]	AT	St. Peter	Verbund - APG	DE	Schärding	Verbund - APG		220		301			229 [32]	
115.16.2 [33]	AT	St. Peter	Verbund - APG	DE	Schärding	Verbund - APG		220		301			229 [34]	
115.17.1	AT	Kufstein	TIWAG-Netz	DE	Oberaudorf	transpower		110		90				
115.17.2	AT	Ebbs	TIWAG-Netz	DE	Oberaudorf	transpower		110		127				
116.1.1	AT	Westtirol	Verbund - APG	DE	Leupolz	RWE Transportnetz Strom		380		1316				
116.2.1	AT	Westtirol	Verbund - APG	DE	Memmingen	RWE Transportnetz Strom		220		762				
117.1.1	AT	Silz	TIWAG-Netz	DE	Oberbrunn	transpower		220		793	762 [35]			
117.1.2	AT	Silz	TIWAG-Netz	DE	Oberbrunn	transpower		220		793	762 [36]			
117.3.1	AT	Reutte	TIWAG-Netz	DE	Füssen	EW Reutte		110		127				
117.3.2	AT	Reutte	TIWAG-Netz	DE	Füssen	EW Reutte		110		127				
121.1.1	CH	All'Acqua	swissgrid	IT	Ponte	Terna		220		278				
121.2.1	CH	Gorduno	swissgrid	IT	Mese	Terna		220		278				
121.3.1	CH	Soazza	swissgrid	IT	Bulciago	Terna		380		1224				
121.4.1	CH	Lavorgo	swissgrid	IT	Musignano	Terna		380		1204				
122.1.1 [37]	CH	Campocologno	RE	IT	Poschiavino	Terna		150		103	42			
123.1.1	CH	Riddes	swissgrid	IT	Avise	Terna		220		309				
123.2.1	CH	Riddes	swissgrid	IT	Valpelline	Terna		220		309				
123.3.1	CH	Serra	swissgrid	IT	Pallanzeno	Terna		220		278				
124.1.1	CH	Robbia	swissgrid	IT	Gorlago	Terna		380		1340				
124.1.2	CH	Robbia	swissgrid	IT	San Fiorano	Terna		380		1340				
125.1.1	CH	Mendrisio	swissgrid	IT	Cagno	Terna		380		450			200	
132.1.1	AT	Lienz	Verbund - APG	IT	Soverzene	Terna		220		257				
141.1.1	AT	Meiningen	VKW-Netz	CH	Y-Meiningen	swissgrid		220		501				
141.2.1	AT	Meiningen	VKW-Netz	CH	Winkeln	swissgrid		220		776				
142.1.1	AT	Westtirol	Verbund - APG	CH	Pradella	swissgrid		380		1340				
142.2.1	AT	Westtirol	Verbund - APG	CH	Pradella	swissgrid		380		1340				
151.1.1	ES	Hernani	REE	FR	Argia [38]	RTE		380		1136				
151.2.1	ES	Irún	REE	FR	Errondenia	RTE		132		56				
151.3.1	ES	Arkale	REE	FR	Argia	RTE		220		340				
151.4.1	ES	Biescas	REE	FR	Pragnères	RTE		220		237				
152.1.1	ES	Benós	REE	FR	Lac d'Oo	RTE		110		63				
153.1.1	ES	Vic	REE	FR	Baixas	RTE		380		1105				
161.1.1	DE	Flensburg	transpower	DK_W	Ensted	Energinet.dk		220		332	305 [39]			
161.2.1	DE	Flensburg	transpower	DK_W	Kassø	Energinet.dk		220		332	305 [40]			
161.3.1	DE	Audorf	transpower	DK_W	Kassø	Energinet.dk		380		1078	658 [41]			
161.3.2	DE	Audorf	transpower	DK_W	Kassø	Energinet.dk		380		1078	658 [42]			
161.4.1	DE	Flensburg UW Nord	transpower	DK_W	Ensted	Energinet.dk		150		150				
162.1.1 [43]	DE	Bentwisch	VE Transmission	DK_E	Bjæverskov	Energinet.dk		400		600				
163.1.1 [44]	NO	Kristiansand	Statnett	DK_W	Tjele	Energinet.dk				250				
163.1.2 [45]	NO	Kristiansand	Statnett	DK_W	Tjele	Energinet.dk				250				
164.1.1 [46]	NO	Kristiansand	Statnett	DK_W	Tjele	Energinet.dk				350				
165.1.1 [47]	SE	Stenkullen	Svenska Kraftnät	DK_W	Vester Hassing	Energinet.dk				125				
166.1.1 [48]	SE	Lindome	Svenska Kraftnät	DK_W	Vester Hassing	Energinet.dk				360				
171.1.1	AT	Bisamberg	Verbund - APG	CZ	Sokolnice	CEPS		220		251				
171.2.1	AT	Bisamberg	Verbund - APG	CZ	Sokolnice	CEPS		220		251				
172.1.1	AT	Dürnrohr	Verbund - APG	CZ	Slavetice	CEPS		380		1481				
172.1.2	AT	Dürnrohr	Verbund - APG	CZ	Slavetice	CEPS		380		1481				
181.1.1	AT	Obersielach	Verbund - APG	SI	Podlog	ELES		220		351				
182.1.1	AT	Kainachtal	Verbund - APG	SI	Maribor	ELES		380		1514				
182.2.1	AT	Kainachtal	Verbund - APG	SI	Maribor	ELES		380		1514	450			
191.1.1	DE	Niederstedem	RWE Transportnetz Strom	LU	Vianden	SEO		220		490	460 [49,50]			
191.1.2	DE	Niederstedem	RWE Transportnetz Strom	LU	Vianden	SEO		220		490	230			
191.2.1	DE	Bauler	RWE Transportnetz Strom	LU	Vianden	SEO		220		730	345 [51,52]			
191.2.2	DE	Bauler	RWE Transportnetz Strom	LU	Vianden	SEO		220		730	230 [53,54]			
191.3.1	DE	Bauler	RWE Transportnetz Strom	LU	Flebour	CEGEDEL Net SA		220		490			260	
191.4.1	DE	Bauler	RWE Transportnetz Strom	LU	Roost	CEGEDEL Net SA		220		490			260	
192.1.1	DE	Trier	RWE Transportnetz Strom	LU	Heisdorf	CEGEDEL Net SA		220		490				
192.2.1	DE	Quint	RWE Transportnetz Strom	LU	Heisdorf	CEGEDEL Net SA		220		490				

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	Observations
[55]	The 400kV DC link between GR-IT is composed of an overhead line and a submarine cable
[56]	DC submarine cable
[57]	Unit is MW instead of MVA
[58]	DC submarine cable
[59]	Unit is MW instead of MVA
[60]	In May 2007 out of operation 150 kV line Bitola1-Amyndeo; from June 2007 the new 400 kV line Bitola2-Meliti in operation
[61]	Limited by the connected network
[62]	Nominal voltage in Croatia
[63]	Limited by the connected network
[64]	Nominal voltage in Croatia
[65]	Built for 750 kV
[66]	4500 MVA at 750 kV
[67]	In the near future this line will be decommissioned.
[68]	Limited by the Albanian network
[69]	Capacity of current transformers at Bistrica
[70]	Disconnected in Serbia
[71]	Destroyed line
[72]	Out of operation

Circuit ID (Frontier point.Line.Circuit)	Connection between: From substation Country	From substation Name	From substation Operated by	to substation Country	to substation Name	to substation Operated by	Voltage of the circuit Forecast	Voltage of the circuit Present	Conventional transmission capacity of the connection (thermal)* Forecast	Conventional transmission capacity of the connection (thermal)* Present	Limited by the transformers or by the substations: of circuits at	of circuits Voltage	of lines Transmission capacity	of lines Voltage
Nr.							kV	kV	MVA	MVA	MVA	kV	MVA	kV
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
201.1.1	IT	Redipuglia	Terna	SI	Divača	ELES		380		1619				
201.2.1	IT	Padriciano	Terna	SI	Divača	ELES		220		305				
205.1.1 [55]	IT	Galatina	Terna	GR	Arachthos	HTSO		380		500				
211.1.1	AT	Wien Süd-Ost	Verbund - APG	HU	Györ	MAVIR		220		209				
211.1.2	AT	Neusiedl	Verbund - APG	HU	Györ	MAVIR		220		209				
212.1.1	AT	Wien Süd-Ost	Verbund - APG	HU	Györ	MAVIR		380		1514				
221.1.1	FR	Mandarins	RTE	GB	Sellindge	National Grid		270 [56]		1000 [57]				
221.2.1	FR	Mandarins	RTE	GB	Sellindge	National Grid		270 [58]		1000 [59]				
231.1.1	ES	Las Conchas	REE	PT	Lindoso	REN		132		90				
232.1.1	ES	Aldeadávila	REE	PT	Bemposta	REN		220		374				
232.2.1	ES	Aldeadávila	REE	PT	Pocinho	REN		220		374				
232.3.1	ES	Saucelle	REE	PT	Pocinho	REN		220		346				
233.1.1	ES	Cedillo	REE	PT	Falagueira	REN		380		1300				
234.1.1	ES	Cartelle	REE	PT	Alto Lindoso	REN		380		1330				
234.1.2	ES	Cartelle	REE	PT	Alto Lindoso	REN		380		1330				
235.1.1	ES	Brovales	REE	PT	Alqueva	REN		400		1280				
241.1.1	MK	Dubrovo	MEPSO	GR	Thessaloniki	HTSO		400		1300				
242.1.1 [60]	MK	Bitola	MEPSO	GR	Meliti	HTSO		400		1300				
251.1.1	HU	Lenti	MAVIR	HR	Nedeljanec	HEP-OPS		120		79	50 [61]	110 [62]		
251.2.1	HU	Siklos	MAVIR	HR	Donji Miholjac	HEP-OPS		120		114	50 [63]	110 [64]		
251.3.1	HU	Héviz	MAVIR	HR	Zerjavinec	HEP-OPS		400		1246				
251.3.2	HU	Héviz	MAVIR	HR	Zerjavinec	HEP-OPS		400		1246				
261.1.1	RS	Djerdap	EMS	RO	Portile de Fier	TRANSELECTRICA		400		1135			1107	
262.1.1	RS	Kikinda 1	EMS	RO	Jimbolia	TRANSELECTRICA		110		65			57	
263.1.1	RS	Kusijak	EMS	RO	Ostrovu Mare	TRANSELECTRICA		110		90				
264.1.1	RS	Sip	EMS	RO	Gura Văii	TRANSELECTRICA		110		87			19	
271.1.1	BG	Sofija Zapad	NEK	RS	Niš	EMS		400		1309				
272.1.1	BG	Breznik	ESO EAD	RS	HE Vrla 1	EMS		110		97				
273.1.1	BG	Kula	ESO EAD	RS	Zaječar	EMS		110		90				
275.1.1	RO	Isaccea	TRANSELECTRICA	BG	Varna	ESO EAD	750	400 [65]	4500	2168 [66]			750	
276.1.1	RO	Işalniţa	TRANSELECTRICA	BG	Kozlodui	ESO EAD		220		337 [67]				
277.1.1	RO	Ţânţăreni	TRANSELECTRICA	BG	Kozlodui	ESO EAD		400		1300		1000		
277.1.2	RO	Ţânţăreni	TRANSELECTRICA	BG	Kozlodui	ESO EAD		400		1300		1107		
278.1.1	RO	Isaccea	TRANSELECTRICA	BG	Dobrudja	ESO EAD		400		1135			830	
281.1.1	AL	Vau i Dejës	KESH	ME	Podgorica	EPCG		220		276				
282.1.1	AL	Fierza	KESH	RS	Prizren	EMS		220		270				
291.1.1	AL	Elbassan	KESH	GR	Kardia	HTSO		400		1300	250 [68]			
292.1.1	AL	Bistrica	KESH	GR	Mourtos	HTSO		150		120	40 [69]			
293.1.1	TR	Babaeski	TEIAS	GR	Didymoticho	HTSO		150		185				
301.1.1	BG	Blagoevgrad	ESO EAD	GR	Thessaloniki	HTSO		400		1300	700			
321.1.1	CZ	Hradec Zapad	CEPS	DE	Etzenricht	transpower		380		1295				
321.1.2	CZ	Prestice	CEPS	DE	Etzenricht	transpower		380		1295				
322.1.1	CZ	Hradec Vychod	CEPS	DE	Röhrsdorf	VE Transmission		380		1145				
322.1.2	CZ	Hradec Vychod	CEPS	DE	Röhrsdorf	VE Transmission		380		1145				
331.1.1	HU	Sándorfalva	MAVIR	RS	Subotica 3	EMS		380		1295	1050			
332.1.1	HU	Szeged	MAVIR	RS	Subotica	EMS		110		79 [70]	62			
341.1.1	BG	Skakavica	ESO EAD	MK	Kriva Palanka	MEPSO		110		123				
341.2.1	BG	Petric	ESO EAD	MK	Sušica	MEPSO		110		123				
342.1.1	BG	Cervena Mogila	ESO EAD	MK	Stip	MEPSO		400		1309				
351.1.1	HR	Melina	HEP-OPS	SI	Divača	ELES		380		1264				
351.2.1	HR	Pehlin	HEP-OPS	SI	Divača	ELES		220		366				
351.3.1	HR	Buje	HEP-OPS	SI	Koper	ELES		110		89				
351.4.1	HR	Matulji	HEP-OPS	SI	Ilirska Bistrica	ELES		110		53				
352.1.1	HR	Tumbri	HEP-OPS	SI	Krško	ELES		380		1316				
352.1.2	HR	Tumbri	HEP-OPS	SI	Krško	ELES		380		1316				
352.2.1	HR	Žerjavinec	HEP-OPS	SI	Cirkovce	ELES		220		297				
352.3.1	HR	Nedeljanec	HEP-OPS	SI	Formin	ELES		110		115				
361.1.1	BA	Mostar	NOS BiH	HR	Konjsko	HEP-OPS		400		1316				
361.2.1	BA	Mostar	NOS BiH	HR	Zakučac	HEP-OPS		220		311				
361.3.1	BA	Grahovo	NOS BiH	HR	Knin	HEP-OPS		110		90				
361.4.1	BA	Buško Blato	NOS BiH	HR	Kraljevac	HEP-OPS		110		115				
361.5.1	BA	Buško Blato	NOS BiH	HR	Peruca	HEP-OPS		110		90				
361.6.1	BA	Grude	NOS BiH	HR	Imotski	HEP-OPS		110		72				
361.7.1	BA	Kulen Vakuf	NOS BiH	HR	Gracac	HEP-OPS		110		120	101			
362.1.1	BA	Jajce	NOS BiH	HR	Mraclin	HEP-OPS		220		297 [71]				
362.2.1	BA	Prijedor	NOS BiH	HR	Međurić	HEP-OPS		220		297				
363.1.1	BA	Trebinje	NOS BiH	HR	Dubrovnik	HEP-OPS		220		460 [72]				
363.2.1	BA	Trebinje	NOS BiH	HR	Dubrovnik	HEP-OPS		220		460				

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	Observations
[73]	Destroyed line and substation
[74]	Destroyed line
[75]	Destroyed line
[76]	New line 400 kV between RS (EMS) and BA (NOS) Ugljevik - Sremska Mitrovica is operational from EMS side
[77]	Line is destroyed, currently under construction
[78]	Line is destroyed, currently under construction
[79]	DC submarine cable
[80]	Monopol
[81]	Limited by the measuring transformer of current
[82]	On Polish side 400 kV line (internal designation between VE-T and PSE Operator)
[83]	On Polish side 400 kV line (internal designation between VE-T and PSE Operator)
[84]	Submarine cable
[85]	Submarine cable
[86]	Limited by current transformer at Krosno
[87]	Limited by current transformer at Krosno
[88]	Out of operation
[89]	Limeted by HF attenuator at UA side
[90]	Radial operation
[91]	Out of operation
[92]	Submarine cable
[93]	Limited by the measuring transformer of current
[94]	Out of operation
[95]	Limited by HF attenuator
[96]	Passive island operation limit
[97]	Passive island operation limit
[98]	Passive island operation limit

Circuit ID (Frontier point.Line.Circuit)	Connection between: From substation Country	From substation Name	From substation Operated by	to substation Country	to substation Name	to substation Operated by	Voltage of the circuit Forecast	Voltage of the circuit Present	Conventional transmission capacity of the connection (thermal)* Forecast	Conventional transmission capacity of the connection (thermal)* Present	Limited by the transformers or by the substations: of circuits at	of circuits Voltage	of lines Transmission capacity	of lines Voltage
Nr.							kV	kV	MVA	MVA	MVA	kV	MVA	kV
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
363.3.1	BA	Čapljina	NOS BiH	HR	Opuzen	HEP-OPS		110		84				
363.4.1	BA	Neum	NOS BiH	HR	Opuzen	HEP-OPS		110		84				
363.5.1	BA	Neum	NOS BiH	HR	Ston	HEP-OPS		110		76				
363.6.1	BA	Trebinje	NOS BiH	HR	Komolac	HEP-OPS		110		84				
364.1.1	BA	Ugljevik	NOS BiH	HR	Ernestinovo	HEP-OPS		400		1264 [73]				
364.2.1	BA	Gradačac	NOS BiH	HR	Đakovo	HEP-OPS		220		229 [74]				
364.3.1	BA	Tuzla	NOS BiH	HR	Đakovo	HEP-OPS		220		229				
364.4.1	BA	Bosanski Brod	NOS BiH	HR	Slavonski Brod 2	HEP-OPS		110		115 [75]				
364.5.1	BA	Orasje	NOS BiH	HR	Županja	HEP-OPS		110		76				
371.1.1	HR	Ernestinovo	HEP-OPS	RS	Sremska Mitrovica	EMS		380		1264				
371.2.1	HR	Nijemci	HEP-OPS	RS	Šid	EMS		110		76				
371.3.1	HR	Beli Manastir	HEP-OPS	RS	Apatin	EMS		110		78				
381.1.1	BA	Trebinje	NOS BiH	ME	Podgorica	EPCG		380		1264				
381.2.1	BA	Trebinje	NOS BiH	ME	Perućica	EPCG		220		276				
381.3.1	BA	Trebinje	NOS BiH	ME	Herceg Novi	EPCG		110		90				
381.4.1	BA	Bileča	NOS BiH	ME	Vilusi	EPCG		110		84				
382.1.1	BA	Sarajevo 20	NOS BiH	ME	Piva	EPCG		220		366				
382.2.1	BA	Goražde	NOS BiH	ME	Pljevlja	EPCG		110		90				
383.1.1	BA	Višegrad	NOS BiH	RS	Požega	EMS		220		311				
383.2.1	BA	Bijeljina	NOS BiH	RS	Lešnica	EMS		110		123				
383.3.1	BA	Zvornik	NOS BiH	RS	HE Zvornik	EMS		110		123				
383.4.1	BA	Višegrad	NOS BiH	RS	Potpeć	EMS		110		90				
383.5.1	BA	Ugljevik	NOS BiH	RS	Sremska Mitrovica	EMS		380		1264 [76]				
384.1.1	ME	Ribarevine	EPCG	RS	Kosovo B	EMS		380		1264				
384.2.1	ME	Pljevlja 2	EPCG	RS	Bajina Basta	EMS		220		350				
384.3.1	ME	Pljevlja 2	EPCG	RS	Pozega	EMS		220		365				
384.4.1	ME	Pljevlja 1	EPCG	RS	Zamrsten	EMS		110		70				
391.1.1	MK	Skopje 1	MEPSO	RS	Kosovo A	EMS		220		311[77]				
391.2.1	MK	Skopje 1	MEPSO	RS	Kosovo A	EMS		220		311[78]				
391.3.1	MK	Skopje 5	MEPSO	RS	Kosovo B	EMS		380		1218				
401.1.1 [79,80]	DE	Herrenwyk	transpower	SE	Kruseberg	Sydkraft/Vattenfall		450		600				
404.1.1	CZ	Nosovice	CEPS	SK	Varin	SEPS		400		1205				
410.1.1	CZ	Liskovec	CEPS	SK	Pov. Bystrica	SEPS		220		221				
420.1.1	CZ	Sokolnice	CEPS	SK	Senica	SEPS		220		213				
424.1.1	CZ	Sokolnice	CEPS	SK	Krizovany	SEPS		400		1205				
430.1.1	CZ	Sokolnice	CEPS	SK	Stupava	SEPS		400		1363				
440.1.1	SK	V.Kapusany	SEPS	UA_W	Mukachevo	NPC Ukrenergo		400		1186	831[81]			
443.1.1	CZ	Albrechtice	CEPS	PL	Dobrzeń	PSE Operator S.A.		400		1088				
444.1.1	CZ	Nošovice	CEPS	PL	Wielopole	PSE Operator S.A.		400		1088				
450.1.1	CZ	Liskovec	CEPS	PL	Kopanina	PSE Operator S.A.		220		399				
460.1.1	CZ	Liskovec	CEPS	PL	Bujaków	PSE Operator S.A.		220		399				
501.1.1	DE	Vierraden	VE Transmission	PL	Krajnik	PSE Operator S.A.		220		402				
501.1.2	DE	Vierraden	VE Transmission	PL	Krajnik	PSE Operator S.A.		220		402				
502.1.1	DE	Hagenwerder	VE Transmission	PL	Mikułowa	PSE Operator S.A.		380 [82]		1302				
502.1.2	DE	Hagenwerder	VE Transmission	PL	Mikułowa	PSE Operator S.A.		380 [83]		1302				
601.1.1 [84]	ES	Puerto de la Cruz	REE	MA	Melloussa 1	ONE		380		715				
601.1.2 [85]	ES	Puerto de la Cruz	REE	MA	Melloussa 2	ONE		380		715				
700.1.1	PL	Krosno Iskrzynia	PSE Operator S.A.	SK	Lemešany	SEPS		400		1252	831[86]			
700.1.2	PL	Krosno Iskrzynia	PSE Operator S.A.	SK	Lemešany	SEPS		400		1252	831[87]			
701.1.1	PL	Rzeszów	PSE Operator S.A.	UA	Chmielnicka	NPC Ukrenergo		750		2676 [88]	1949 [89]			
702.1.1	PL	Zamość	PSE Operator S.A.	UA	Dobrotwor	NPC Ukrenergo		220		309 [90]				
703.1.1	PL	Białystok	PSE Operator S.A.	BY	Roś	Grodnoenergo		220		215 [91]				
704.1.1	PL	Słupsk Wierzbięcino	PSE Operator S.A.	SE	Stärnö	SvK		450		600 [92]				
710.1.1	HU	Györ	MAVIR	SK	Gabcikovo	SEPS		400		1330				
711.1.1	HU	Göd	MAVIR	SK	Levice	SEPS		400		1330				
720.1.1	HU	Albertirsa	MAVIR	UA_W	Zahidno Ukrainska	NPC Ukrenergo		750		4010	1400			
721.1.1	HU	Sajószöged	MAVIR	UA_W	Mukacevo	NPC Ukrenergo		400		1390	693 [93]			
722.1.1	HU	Kisvárda	MAVIR	UA_W	Mukacevo	NPC Ukrenergo		220		209	305			
722.1.2	HU	Tiszalök	MAVIR	UA_W	Mukacevo	NPC Ukrenergo		220		209	305			
730.1.1	HU	Sándorfalva	MAVIR	RO	Arad	TRANSELECTRICA		400		1135	1109		1107	
731.1.1	HU	Békéscsaba	MAVIR	RO	Nadab	TRANSELECTRICA		400		1300				
740.1.1	RO	Roşiori	TRANSELECTRICA	UA_W	Mukacevo	NPC Ukrenergo		400		1135			1107	
741.1.1	RO	Isaccea	TRANSELECTRICA	UA_W	Pivdenno Ukrainska AES	NPC Ukrenergo		750		4064 [94]	2100 [95]		2595	
750.1.1	RO	Stânca	TRANSELECTRICA	MD	Costeşti	Moldenergo		110		119			90 [96]	
751.1.1	RO	Huşi	TRANSELECTRICA	MD	Cioara	Moldenergo		110		87			65 [97]	
752.1.1	RO	Ţuţora	TRANSELECTRICA	MD	Ungheni	Moldenergo		110		87			76 [98]	
753.1.1	RO	Issaccea	TRANSELECTRICA	MD	Vulcanesti	Moldenergo		400		1135			830	
760.1.1	BG	Maritsa3	ESO EAD	TR	Babaeski	TEIAS		400		1309				
761.1.1	BG	Maritsa3	ESO EAD	TR	Hamitabat	TEIAS		400	1962	900				

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Austria	Verbund - APG TIWAG Netz AG VKW - Netz AG	Verbund - Austria Power Grid AG TIWAG Netz AG VKW - Netz AG
Bosnia - Herzegovina	ISO BiH	Nezavisni operator sustava u Bosni i Hercegovini
Belgium	Elia	Elia System Operator SA/NV
Bulgaria	ESO EAD	Electroenergien Sistemen Operator EAD
Switzerland	swissgrid	swissgrid ag
Czech Republic	CEPS	CEPS a.s.
Germany	transpower EnBW Transportnetze RWE Transportnetz Strom VE Transmission	transpower stromübertragungsnetz gmbh EnBW Transportnetze AG RWE Transportnetz Strom GmbH (since September 2009 Amprion GmbH) Vattenfall Europe Transmission GmbH
Denmark West	Energinet.dk	Energinet.dk
Spain	REE	Red Eléctrica de España S.A.
France	RTE	RTE EDF Transport S.A.
Greece	HTSO / DESMIE	Hellenic Transmission System Operator/ Diachiristis Elinikou Sistimatos Metaforas Ilectrikis Energias
Croatia	HEP - OPS	HEP-Operator prijenosnog sustava d.o.o.
Hungary	MAVIR ZRt.	MAVIR Magyar Villamosenergia-ipari Rendszerirányító Zártkörúen Múködó Részvénytársaság
Italy	Terna S.p.A.	Terna - Rete Elettrica Nazionale SpA
Luxembourg	CEGEDEL Net S.A.	Compagnie Grand Ducale d'Electricité du Luxembourg
Montenegro	EPCG	Elektroprivreda Crne Gore
FYROM	MEPSO	Macadonian Transmission System Operator
The Netherlands	TenneT TSO B.V.	TenneT TSO B.V.
Poland	PSE Operator	PSE Operator S.A.
Portugal	REN	Rede Eléctrica Nacional, S.A.
Romania	TRANSELECTRICA	C.N. Transelectrica S.A.
Slovenia	ELES	Elektro Slovenija
Serbia	EMS	JP Elektromreža Srbije
Slovak Republic	SEPS	Slovenska elektrizacna prenosova sustava, a.s.
Denmark East	Energinet.dk	Energinet.dk
Ukraine West	NPC Ukrenergo	NPC Ukrenergo
Albania	KESH	Albanian Electroenergetic Corporation
Belarus	Grodnoenergo	Grodnoenergo
Great Britain	National Grid	The National Grid Company plc
Morocco	ONE	Office National de l'Electricité
Republic of Moldavia	Moldenergo	Moldenergo
Norway	Statnett	Statnett
Sweden	SYDKRAFT VATTENFALL SvK	Sydkraft AB Vattenfall AB Svenska Kraftnät
Republic of Turkey	TEIAS	Türkiye Elektrik Iletim A.S.
Ukraine	NPC Ukrenergo	NPC Ukrenergo

Unavailability of international tie lines - Overview 2008

Circuit ID	From substation	To substation	Voltage [kV]	Thermal conventional transmission capacity [MVA]	Major Reason	Time whole year [min]	January [min]	February [min]	March [min]	April [min]	May [min]	June [min]	July [min]	August [min]	September [min]	October [min]	November [min]	December [min]
11.1.1	DE - Diele (transpower)	NL - Meeden (TenneT TSO B.V.)	380	1382	R1,R2,R6,R10	1752				15		568		350	460	359		
13.1.1	DE - Siersdorf (RWE Transportnetz Strom)	NL - Maasbracht (TenneT TSO B.V.)	380	1645	R1	2206								2206				
13.1.2	DE - Rommerskirchen (RWE Transportnetz Strom)	NL - Maasbracht (TenneT TSO B.V.)	380	1698	R1	6006					6006							
15.1.1	DE - Gronau (RWE Transportnetz Strom)	NL - Hengelo (TenneT TSO B.V.)	380	1790	R9	6708				6108	96			331	173			
15.1.2	DE - Gronau (RWE Transportnetz Strom)	NL - Hengelo (TenneT TSO B.V.)	380	1790	R9	7967				7493					474			
25.1.1	BE - Van Eyck (Elia)	NL - Maasbracht (TenneT TSO B.V.)	380	1207	R1,R3	17066		12009		212					4845			
25.1.2	BE - Van Eyck (Elia)	NL - Maasbracht (TenneT TSO B.V.)	380	1270	R1,R3	8672								3377	1950	3345		
26.1.1	BE - Zandvliet (Elia)	NL - Geertruidenberg (TenneT TSO B.V.)	380	1476	R1	775	572				203							
26.2.1	BE - Zandvliet (Elia)	NL - Borssele (TenneT TSO B.V.)	380	1476	R1,R2	18513		462	638	616				15629	1168			
41.1.1	BE - Aubange (Elia)	LU - Belval (SOTEL)	220	358	R1	48983				22579	26404							
41.1.2	BE - Aubange (Elia)	LU - Belval (SOTEL)	220	358	R1	6333					5404	929						
41.2.1	BE - Aubange (Elia)	LU - Belval (SOTEL)	150	157	R1	28137		972	341		4861	9685	2069	3170	369	1624	5046	
41.3.1	BE - Aubange (Elia)	LU - Belval (SOTEL)	150	157	R1	112403		972	341		9213	10950	3087	44640	43200			
51.1.1	BE - Monceau (Elia)	FR - Chooz (RTE)	220	362	R1	32780			7695							16868	8217	
51.2.1	BE - Avelgem (Elia)	FR - Mastaing (RTE)	380	1207	R1,R2	18950				13520	4915							515
51.2.2	BE - Avelgem (Elia)	FR - Avelin (RTE)	380	1367	R1	3521			956	2565								
51.3.1	BE - Achene (Elia)	FR - Lonny (RTE)	380	1177	R1,R10	12658			6271						6377		10	
52.1.1	BE - Aubange (Elia)	FR - Moulaine (RTE)	220	358	R1	3430										3430		
71.1.1	DE - Uchtelfangen (RWE Transportnetz Strom)	FR - Vigy (RTE)	380	1790	R3,R9	43055		28284	9760	5011								
71.1.2	DE - Uchtelfangen (RWE Transportnetz Strom)	FR - Vigy (RTE)	380	1790	R1	21792		21658			134							
71.2.1	DE - Ensdorf (RWE Transportnetz Strom)	FR - St-Avold (RTE)	220	282	R1,R3,R9	110802	5350	41760	44580	18414	422						276	
72.1.1	DE - Eichstetten (EnBW Transportnetze)	FR - Vogelgrün (RTE)	220	480	R1,R7,R9	3807	8			1	710		673	1933		74		408
72.1.2	DE - Eichstetten (EnBW Transportnetze)	FR - Muhlbach (RTE)	380	1684	R1,R9	3503	12			4				3484			3	
81.1.1	CH - Bassecourt (swissgrid)	FR - Sierentz (RTE)	380	1340	R1	19692	3306										16386	
81.2.1	CH - Laufenburg (swissgrid)	FR - Sierentz (RTE)	380	1340	R1,R2	18880			4911				2315	666	2296	8692		
81.3.1	CH - Bassecourt (swissgrid)	FR - Mambelin (RTE)	380	1340	R1,R9	9043	3306				2138			1524	2075			
82.1.1	CH - Verbois (swissgrid)	FR - Bois-Tollot (RTE)	380	1564	R1	18499	2019								12528	3952		
82.1.2	CH - Chamoson (swissgrid)	FR - Bois-Tollot (RTE)	380	1564	R1,R9	44935	1947			371	8176	1640	6675	9589		3890	12647	
82.2.1	CH - Verbois (swissgrid)	FR - Génissiat (RTE)	220	428	R1	6355									6355			
82.2.2	CH - Verbois (swissgrid)	FR - Génissiat (RTE)	220	428	R1	7531									6964	567		
82.4.1	CH - La Bâtiaz (swissgrid)	FR - Vallorcine (RTE)	220	370	R1	4725						4725						
82.5.1	CH - Riddes (swissgrid)	FR - Cornier (RTE)	220	360	R1,R10	3089		640		2088			361					
82.6.1	CH - St.-Triphon (swissgrid)	FR - Cornier (RTE)	220	360	R1,R2,R10	4467				2099	2005		363					
83.1.1	DE - Asphard (swissgrid/EnBW Tr.Netze Strom)	FR - Sierentz (RTE)	380	1660	R1	13625										10129		3496
91.1.1	FR - Albertville (RTE)	IT - Rondissone (Terna)	380	1745	R1	7775								7775				
91.1.2	FR - Albertville (RTE)	IT - Rondissone (Terna)	380	1745	R1,R8	15732							55	15677				
92.1.1	FR - Trinite Victor (RTE)	IT - Camporosso (Terna)	220	320	R1	4779					4779							
93.1.1	FR - Villarodin (RTE)	IT - Venaus (Terna)	380	956	R1,R6	29682					3224	11376		15082				
94.1.1	FR - Lucciana (EDF)	IT - Suvereto (Terna)	220	300	R1	26520					26520							
102.1.1	CH - Laufenburg (swissgrid)	DE - Gurtweil (EnBW Transportnetze)	220	485	R1,R2	3305		59					299	2947				
102.1.2	CH - Laufenburg (swissgrid)	DE - Gurtweil (EnBW Transportnetze)	220	469	R1,R9	4186						373		3813				
102.2.1	CH - Laufenburg (swissgrid)	DE - Kühmoos (EnBW Transportnetze)	220	469	R1,R9	13067					4862	549	482	596	6578			
102.3.1	CH - Laufenburg (swissgrid)	DE - Kühmoos (EnBW Transportnetze)	220	469	R1,R9	12462					4862	4	482	536	6578			
102.3.2	CH - Laufenburg (swissgrid)	DE - Kühmoos (EnBW Transportnetze)	380	1620	R1	8361					554	4395				3412		
102.4.1	CH - Laufenburg (swissgrid)	DE - Kühmoos (EnBW Transportnetze)	380	1620	R1	8677					555		4464			3412		246
102.4.2	CH - Laufenburg (swissgrid)	DE - Kühmoos (RWE Transportnetz Strom)	380	1620	R1,R2	4359							660	3480				219
102.5.1	CH - Laufenburg (swissgrid)	DE - Tiengen (RWE Transportnetz Strom)	380	1131	R1,R2	53307					641				885		26918	24863
103.1.1	CH - Beznau (swissgrid)	DE - Tiengen (RWE Transportnetz Strom)	380	1278	R1	6736				6118				618				
103.1.2	CH - Beznau (swissgrid)	DE - Tiengen (RWE Transportnetz Strom)	220	370	R1	814				203				611				
105.1.1	CH - Laufenburg (swissgrid)	DE - Trossingen (EnBW Transportnetze)	380	1580	R1,R3,R6,R9	5676				1989			1247	610	1797			33
111.1.1	AT - Bürs (VIW)	DE - Obermooweiler (EnBW Transportnetze)	380	1369	R1,R2,R9	4746	170	557		615	681	2067				29	302	325
111.1.2	AT - Bürs (VIW)	DE - Obermooweiler (EnBW Transportnetze)	380	1369	R1,R2,R9	3216			214	597	0	2098		287		20		
111.2.1	AT - Bürs (VIW)	DE - Herbertingen (RWE Transportnetz Strom)	220	389	R1,R7,R9,R10	48037					6311	5789	15728	16321	1036		17	2835
111.3.1	AT - Bürs (VIW)	DE - Dellmensingen (RWE Transportnetz Strom)	220	492	R1,R7,R10	2433			180	1954					261		38	
115.5.1	AT - St. Peter (Verbund-APG)	DE - Altheim (transpower)	220	301	R1	31869							30603	570			696	
115.6.1	AT - St. Peter (Verbund-APG)	DE - Simbach (transpower)	220	301	R1,R3,R10	31555			59				9256	19386	1750		1064	40
115.9.1	AT - St. Peter (Verbund-APG)	DE - Pirach (transpower)	220	518	R1	2799									589			2210
115.10.1	AT - St. Peter (Verbund-APG)	DE - Pleinting (transpower)	220	518	R1	313											313	
116.1.1	AT - Westtirol (Verbund-APG)	DE - Leupolz (RWE Transportnetz Strom)	380	1316	R1,R2	19211						187		15077		3947		
116.2.1	AT - Westtirol (Verbund-APG)	DE - Memmingen (RWE Transportnetz Strom)	220	762	R1	7321								5037	2284			
117.1.1	AT - Silz (TIWAG-Netz)	DE - Oberbrunn (transpower)	220	793	R1	10684					665					6661	12816	581
117.1.2	AT - Silz (TIWAG-Netz)	DE - Oberbrunn (transpower)	220	793	R1	20723				641			885					
121.1.1	CH - All'Acqua (swissgrid)	IT - Ponte (Terna)	220	905	R1	3636						3636						
121.2.1	CH - Gorduno (swissgrid)	IT - Mese (Terna)	220	370	R1,R9	39854				642		524			3823	34865		

Reasons: R1 - Maintenance, R2 - Repair, R3 - New construction, R4 - Overload (also calculated), R5 - False operation, R6 - Failure in protection device or other element, R7 - Outside impacts (animals, trees, fire, avalance,...), R8 - Very exceptional conditions (weather, natural disaster,...), R9 - Other reasons, R10 - Unknown reasons

Unavailability of international tie lines - Overview 2008

Circuit ID	From substation	To substation	Voltage [kV]	Thermal conventional transmission capacity [MVA]	Major Reason	Time whole year [min]	January [min]	February [min]	March [min]	April [min]	May [min]	June [min]	July [min]	August [min]	September [min]	October [min]	November [min]	December [min]
121.3.1	CH - Soazza (swissgrid)	IT - Bulciago (Terna)	380	1340	R1,R2	24772						2110		22232			430	
121.4.1	CH - Lavorgo (swissgrid)	IT - Musignano (Terna)	380	1278	R9	10436							507	9248	681			
122.1.1	CH - Campocologno (RE)	IT - Poschiavino (Terna)	150	156	R1	76048			9593	29855			15420	21180				
123.1.1	CH - Riddes (swissgrid)	IT - Avise (Terna)	220	331	R1,R10	32776									26367	1013	5396	
123.2.1	CH - Riddes (swissgrid)	IT - Valpelline (Terna)	220	331	R1	4908											4908	
123.3.1	CH - Serra (swissgrid)	IT - Pallanzeno (Terna)	220	370	R1,R7	33958							10692					23266
124.1.1	CH - Robbia (swissgrid)	IT - Gorlago (Terna)	380	1340	R1,R8	42727	10400							32327				
132.1.1	AT - Lienz (Verbund-APG)	IT - Soverzene (Terna)	220	257	R1	3480					3480							
141.1.1	AT - Meiningen (VKW-Netz)	CH - Y-Meiningen (swissgrid)	220	501	R1	1225						602	623					
141.2.1	AT - Meiningen (VKW-Netz)	CH - Winkeln (swissgrid)	220	776	R1,R9	5343		560						664		2128	1991	
142.1.1	AT - Westtirol (Verbund-APG)	CH - Pradella (swissgrid)	380	1340	R1	830								621			209	
142.2.1	AT - Westtirol (Verbund-APG)	CH - Pradella (swissgrid)	380	1340	R2,R9	11747						972	7479	3063		233		
151.1.1	ES - Hernani (REE)	FR - Cantegrit (RTE)	380	1482	R1,R10	830	265								565			
151.2.1	ES - Irún (REE)	FR - Errondenia (RTE)	132	59	R1	4761		4761										
151.4.1	ES - Biescas (REE)	FR - Pragnères (RTE)	220	256	R1,R2	29446								19054			7512	2880
152.1.1	ES - Benós (REE)	FR - Lac d'Oo (RTE)	110	76	R1,R8	35672					46		35269			357		
153.1.1	ES - Vic (REE)	FR - Baixas (RTE)	380	1489	R1,R2,R6,R10	4555		362	1436					507	543		1707	
161.1.1	DE - Flensburg (transpower)	DK_W - Ensted (Energinet.dk)	220	332	R1,R2,R10	24491		112			17410						6618	351
161.2.1	DE - Flensburg (transpower)	DK_W - Kassø (Energinet.dk)	220	332	R1,R10	19648					17252						1952	444
161.3.1	DE - Audorf (transpower)	DK_W - Kassø (Energinet.dk)	380	1382	R2,R6,R10	1719		107					366	184		1062		
161.3.2	DE - Audorf (transpower)	DK_W - Kassø (Energinet.dk)	380	1382	R10	1152							725			427		
163.1.1	NO - Kristiansand (Statnett)	DK_W - Tjele (Energinet.dk)			R1,R5,R6	5523			768	14	4741							
163.1.2	NO - Kristiansand (Statnett)	DK_W - Tjele (Energinet.dk)			R1,R5,R9	10128		17			4920		5191					
164.1.1	NO - Kristiansand (Statnett)	DK_W - Tjele (Energinet.dk)			R1,R2	266384	44640	41760	44580	43200	44640	43200	3681					683
165.1.1	SE - Stenkullen (Svenska Kraftnät)	DK_W - Vester Hassing- LIndome (Energinet.dk)			R1,R2,R6,R7	44704			12705	180		7414		20221	4184			
166.1.1	SE - Lindome (Svenska Kraftnät)	DK_W - Vester Hassing- LIndome (Energinet.dk)			R1,R2,R5,R9,R10	20669	370		769			1657		8261	9378			234
171.1.1	AT - Bisamberg (Verbund-APG)	CZ - Sokolnice (CEPS)	220	269	R1,R3,R6	33848				5959	33	1014	25364					1478
171.2.1	AT - Bisamberg (Verbund-APG)	CZ - Sokolnice (CEPS)	220	269	R1,R3	27862						1015	25364					1483
172.1.1	AT - Dürnrohr (Verbund-APG)	CZ - Slavetice (CEPS)	380	1481	R1,R3	91639	207								42681	44700	4051	
191.3.1	DE - Bauler (RWE Transportnetz Strom)	LU - Flebour (CEGEDEL Net SA)	220	492	R1	2239				2239								
191.4.1	DE - Bauler (RWE Transportnetz Strom)	LU - Roost (CEGEDEL Net SA)	220	490	R1	5316			399	1656							3261	
192.1.1	DE - Trier (RWE Transportnetz Strom)	LU - Heisdorf (CEGEDEL Net SA)	220	492	R1	1631			464			1167						
192.2.1	DE - Quint (RWE Transportnetz Strom)	LU - Heisdorf (CEGEDEL Net SA)	220	492	R1,R9	29618			458		107	1340	2403	25310				
201.1.1	IT - Redipuglia (Terna)	SI - Divaca (ELES)	380	1619	R1,R8	21305				5				17820			3480	
201.2.1	IT - Padriciano (Terna)	SI - Divaca (ELES)	220	354	R1,R8	18016			14640	3364				12				
205.1.1	IT - Galatina (Terna)	GR - Arachthos (HTSO)	380	500	R1,R6	36116		683	346	420	6780	10979	16740				18	150
221.1.1	GB - Sellindge (National Grid)	FR - Mandarins (RTE)			R1,R6,R10	6622	115	97	272					347	3867	1678	230	16
221.2.1	GB - Sellindge (National Grid)	FR - Mandarins (RTE)			R1,R6,R9,R10	6586	479		2165	51		3622	122		113			34
231.1.1	ES - Las Conchas (REE)	PT - Lindoso (REN)	132	90	R1	2948	2948											
232.1.1	ES - Aldeadávila (REE)	PT - Bemposta (REN)	220	389	R9	976									976			
232.2.1	ES - Aldeadávila (REE)	PT - Pocinho (REN)	220	389	R1	581		581										
234.1.1	ES - Cartelle (REE)	PT - Alto Lindoso (REN)	380	1330	R1,R2,R7	21380		315			2026		17035	2004				
234.1.2	ES - Cartelle (REE)	PT - Alto Lindoso (REN)	380	1330	R2,R7	9529		314						9215				
235.1.1	ES - Brovales (REE)	PT - Alqueva (REN)	400	1347	R1,R2	2053			276						490	1287		
241.1.1	MK - Dubrovo (MEPSO)	GR - Thessaloniki (HTSO)	400	1300	R1	3443				3443								
242.1.1	MK - Bitola (MEPSO)	GR - Meliti (HTSO)	400	1300	R1,R3	39424				4636					15409	19379		
261.1.1	RS - Djerdap (EMS)	RO - Portile de Fier (TRANSELECTRICA)	400	1250	R1	1406							1406					
262.1.1	RS - Kikinda 1 (EMS)	RO - Jimbolia (TRANSELECTRICA)	110	65	R1	7128					1853	5275						
264.1.1	RS - Sip (EMS)	RO - Gura Văii (TRANSELECTRICA)	110	90	R1	1550											1550	
277.1.1	RO - Tântareni (TRANSELECTRICA)	BG - Kozlodui (ESO EAD)	400	1300	R1	59961								26296	8575	5274	19816	
277.1.2	RO - Tântareni (TRANSELECTRICA)	BG - Kozlodui (ESO EAD)	400	1300	R1	26035						26035						
278.1.1	RO - Isaccea (TRANSELECTRICA)	BG - Dobrudja (ESO EAD)	400	1135	R1	60624			4288	6601		137			11080	38518		
282.1.1	AL - Fierza (KESH)	RS - Prizren (EMS)			R4	1103												1103
291.1.1	AL - Elbassan (KESH)	GR - Kardia (HTSO)			R1,R10	8044				7842		202						
301.1.1	BG - Blagoevgrad (ESO EAD)	GR - Thessaloniki (HTSO)	400	1309	R7	25							25					
321.1.1	CZ - Hradec Zapad (CEPS)	DE - Etzenricht (transpower)	400	1295	R1	16467				16467								
321.1.2	CZ - Prestice (CEPS)	DE - Etzenricht (transpower)	400	1295	R1,R9	9562								8872			690	
322.1.1	CZ - Hradec Vychod (CEPS)	DE - Röhrsdorf (VE Transmission)	400	1145	R1,R9	11017							9000			774	1243	
322.1.2	CZ - Hradec Vychod (CEPS)	DE - Röhrsdorf (VE Transmission)	400	1145	R1,R2,R9,R10	13702		67		198			11078	401			1346	612
331.1.1	HU - Sandorfalva (MAVIR)	RS - Subotica 3 (EMS)	400	1295	R1	330											330	
351.1.1	HR - Melina (HEP-OPS)	SI - Divaca (ELES)	400	1264	R8	43				43								
351.2.1	HR - Pehlin (HEP-OPS)	SI - Divaca (ELES)	220	366	R8,R9	10						5		5				

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Unavailability of international tie lines - Overview 2008

Circuit ID	From substation	To substation	Voltage [kV]	Thermal conventional transmission capacity [MVA]	Major Reason	Time whole year [min]	January [min]	February [min]	March [min]	April [min]	May [min]	June [min]	July [min]	August [min]	September [min]	October [min]	November [min]	December [min]
371.1.1	HR - Ernestinovo (HEP-OPS)	RS - Sremska Mitrovica (EMS)	400	1264	R1	580		580										
384.1.1	RS - Kosovo B (EMS)	ME - Ribarevine (EP CG)	400	1330	R1	7176											6948	228
391.1.1	MK - Skopje 1 (MEPSO)	RS - Kosovo A (EMS)	220	311	R9	527040	44640	41760	44580	43200	44640	43200	44640	44640	43200	44700	43200	44640
391.2.1	MK - Skopje 1 (MEPSO)	RS - Kosovo A (EMS)	220	311	R9	527040	44640	41760	44580	43200	44640	43200	44640	44640	43200	44700	43200	44640
401.1.1	DE - Herrenwyk (transpower)	SE - Kruseberg (Sydkraft/Vattenfall)	450	600	R1,R2,R4,R5,R6	8261			103	15		580		70	6348		1145	
404.1.1	CZ - Nosovice (CEPS)	SK - Varin (SEPS)	400	1205	R1,R2	9344						327		9017				
410.1.1	CZ - Liskovec (CEPS)	SK - Pov. Bystrica (SEPS)	220	221	R1	7282					6198						1084	
420.1.1	CZ - Sokolnice (CEPS)	SK - Senica (SEPS)	220	213	R1,R3	19047	503			13871	2747							1926
424.1.1	CZ - Sokolnice (CEPS)	SK - Krizovany (SEPS)	400	1205	R1,R2,R9	66098	5237	34823	24917			402	191				528	
430.1.1	CZ - Sokolnice (CEPS)	SK - Stupava (SEPS)	400	1363	R2	6208			350			5858						
440.1.1	UA_W - Mukachevo (NPC Ukrenergo)	SK - V.Kapusany (SEPS)	400	1186	R1,R2	21291			17542					3719	30			
443.1.1	CZ - Albrechtice (CEPS)	PL - Dobrzeń (PSE Operator S.A.)	400	1088	R1,R2,R3	118988		468		174					42765	44700	30881	
444.1.1	CZ - Nosovice (CEPS)	PL - Wielopole (PSE Operator S.A.)	400	1088	R3	118487									42764	44700	31023	
450.1.1	CZ - Liskovec (CEPS)	PL - Kopanina (PSE Operator S.A.)	220	399	R1,R9	33583							3751	26058				3774
460.1.1	CZ - Liskovec (CEPS)	PL - Bujaków (PSE Operator S.A.)	220	399	R1	11407							1014	10393				
501.1.1	DE - Vierraden (VE Transmission)	PL - Krajnik (PSE Operator S.A.)	220	390	R1	546						546						
501.1.2	DE - Vierraden (VE Transmission)	PL - Krajnik (PSE Operator S.A.)	220	390	R1	444						444						
502.1.1	DE - Hagenwerder (VE Transmission)	PL - Mikułowa (PSE Operator S.A.)	380	1660	R1	2241				2241								
502.1.2	DE - Hagenwerder (VE Transmission)	PL - Mikułowa (PSE Operator S.A.)	380	1660	R1	1523				1523								
601.1.1	ES - Puerto de la Cruz (REE)	MA - Melloussa 1 (ONE)	380	715	R1,R2	45991	1606		922	2295	549	1521	648	578	432		34560	2880
601.1.2	ES - Puerto de la Cruz (REE)	MA - Melloussa 2 (ONE)	380	715	R1	4905	1623		2637				645					
700.1.1	PL - Krosno Iskrzynia (PSE Operator S.A.)	SK - Lemešany (SEPS)	400	1252	R1,R2,R9	19092	1189						16176				1727	
700.1.2	PL - Krosno Iskrzynia (PSE Operator S.A.)	SK - Lemešany (SEPS)	400	1252	R1,R6,R9	17762	2520				6		15236					
704.1.1	PL - Słupsk Wierzbięcino (PSE Operator S.A.)	SE - Stärnö (SvK)	450	600	R1,R9,R10	6723					267				6236	111	109	
710.1.1	HU - Gyoer (MAVIR)	SK - Gabcikovo (SEPS)	400	1330	R2	6441								6441				
711.1.1	HU - Göd (MAVIR)	SK - Levice (SEPS)	400	1330	R2	35511			88	138			35285					
720.1.1	HU - Albertirsa (MAVIR)	UA_W - Zahidno Ukrainska (NPC Ukrenergo)	750	4988	R1,R9	87856				24180	33115				10665	19544	352	
721.1.1	HU - Sajószöged (MAVIR)	UA_W - Mukacevo (NPC Ukrenergo)	400	1390	R2,R1	21175								7567			13608	
722.1.1	HU - Kisvárda (MAVIR)	UA_W - Mukacevo (NPC Ukrenergo)	220	209	R1	3089											3089	
722.1.2	HU - Tiszalök (MAVIR)	UA_W - Mukacevo (NPC Ukrenergo)	220	209	R1	41995						31210	10785					
730.1.1	HU - Sandorfalva (MAVIR)	RO - Arad (TRANSELECTRICA)	400	1330	R1	3477	3477											
740.1.1	RO - Rosiori (TRANSELECTRICA)	UA_W - Mukacevo (NPC Ukrenergo)	400	1135	R1	18551				6513					12038			
753.1.1	RO - Isaccea (TRANSELECTRICA)	MD - Vulcanesti (Moldenergo)	400	1135	R1	22683										22683		

Reasons: R1 - Maintenance, R2 - Repair, R3 - New construction, R4 - Overload (also calculated), R5 - False operation, R6 - Failure in protection device or other element, R7 - Outside impacts (animals, trees, fire, avalance,...), R8 - Very exceptional conditions (weather, natural disaster,...), R9 - Other reasons, R10 - Unknown reasons

	Circuit length in km				Transformers 380/400kV➔220kV	
					in the network	
Country	220 kV	of which cable	380 - 750 kV	of which cable	Number	Capacity GVA
AT [1]	3765,0	5,0	2474,0	56,0	13	4,0
BA	1544,0	0	867,0	0	7	3,0
BE	425,0	n.a.	1324,0	n.a.	9	n.a.
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	4845,3	22,7	1788,0	8,0	18	10,0
CZ	1910,0	0	3479,0	0	4	2,0
DE [2]	15630,0	33,0	20131,0	70,0	150	61,4
DK_W	500,0	0	1387,0	28,0	n.a.	n.a.
ES	16910,0	145,0	17724,0	55,0	109	57,0
FR	26391,0	935,0	21238,0	4,0	216	111,4
GR [3]	11385,0	232,0	4434,0	160,0	47	13,0
HR [4]	1145,0	0	1159,0	0	4	2,0
HU [5]	1545,0	0	2395,0	0	3	1,5
IT	11352,0	431,0	10634,0	466,0	55	23,2
LU	259,0	11,0	0,0	0	0	0
ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
MK [6]	70,0	0	397,0	0	0	0,0
NL [7]	653,3	0,9	2105,9	291,2	n.a.	n.a.
PL [8]	7919,0	0	5288,0	254,0	17	7,7
PT	3237,0	20,0	1589,0	0	9	4,1
RO [9]	4096,0	0	4895,0	0	22	9,0
RS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
SI	328,0	0	508,0	0	3	1,2
SK	962,0	0	1752,0	0	3	1,4
UCTE [10]	**114871,6**	**1835,6**	**105568,9**	**1392,2**	**689**	**311,8**
UA_W [11]	594,0	0	589,8	0	6	2,3

[1] Values as of 31 December 2000
[2] Values transformers of power units as of 31 December 2005; values transformers of power units as of 31 December 2007
[3] The 220 kV network corresponds to 150 kV greek network.
[4] Values as of 31 December 2004
[5] Previous years track lenght was submitted instead of circuit lenght.
[6] Values as of 31 December 2003
[7] The 400kV also includes the 450 kV AC cable to Norway.
[8] Including 114 km circuit lenghts 750 kV; additionally 2 x 750/400kV autotransformers, 2 x 1251MVA;
the lenght of the cable concerns 450kV DC link between PL and SE (SwePol Link) and it is the total lenght of this cable.
[9] Including 155 km circuit lenghts 750 kV
[10] Except Bulgaria, Montenegro and Serbia
[11] Including 208,5 km circuit lenghts 750 kV

	Transformers 220kV ➔< 220kV				Transformers 380/400kV ➔< 220kV			
	of power units		in the network		of power units		in the network	
Country	Number	Capacity GVA	Number	Capacity GVA	Number	Capacity GVA	Number	Capacity GVA
AT [1]	64	7,0	67	12,0	17	11,0	3	1,2
BA	15	2,0	15	2,0	3	1,0	7	2,0
BE	n.a.	n.a.	25	n.a.	n.a.	n.a.	28	n.a.
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	104	4,5	143	21,3	8	4,3	3	0,6
CZ	5	0,9	20	4,0	33	9,2	44	12,5
DE [2]	111	31,0	512	99,5	100	62,0	207	58,7
DK_W	n.a.	n.a.	2	0,6	4	1,6	20	6,5
ES	n.a.	n.a.	1	0,1	n.a.	n.a.	15	5,0
FR	231	30,0	801	84,3	105	86,6	58	13,8
GR [3]	99	8,5	446	18,0	18	6,0	0	0
HR [4]	7	1,3	21	3,2	2	0,3	7	2,4
HU [5]	0	0	28	4,5	0	0,0	22	5,5
IT	112	23,0	168	28,1	121	37,9	218	56,6
LU	11	1,8	21	2,8	0	0,0	0	0
ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
MK [6]	0	0	4	0,6	2	0,5	7	2,1
NL [7]	28	5,4	23	4,4	40	18,4	39	18,2
PL [8]	56	13,6	126	20,0	27	9,5	35	9,4
PT	65	4,4	76	9,9	19	4,4	24	6,7
RO	40	8,1	87	17,6	14	5,8	25	6,3
RS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
SI	0	0	15	1,5	0	0,0	6	1,8
SK	4	0,8	11	2,2	18	3,9	23	6,4
UCTE [10]	**952**	**142,2**	**2612**	**336,6**	**531**	**262,3**	**791**	**215,6**
UA_W [11]	7	1,8	13	1,9	5	1,3	1	1,0

	AT	BA	BE	BG	CH	CZ	DE	DKW	ES	FR	GR	HR	HU	IT	LU	ME	MK	NL	PL	PT	RO	RS	SI	SK	UAW
AT					- 2 2	- 2 2	19 11 3						2 1	- 1 -									- 1 2		
BA												11 7 2				3 2 1						3 1 1			
BE										- 2 3					2 2 -			- - 4							
BG											- - 1						2 - 1				- 1 4	2 - 1			
CH							2 5 7			1 5 5				1 5 5											
CZ							- - 4												- 2 2					- 2 3	
DE								1 2 2		- 2 4					- 8 -			- - 6	- 2 2						
ES										2 2 2										1 3 4					
FR														1 3 3											
GR														- - 1			- - 2								
HR													2 - 2									2 - 1	3 2 3		
HU																					- - 2	1 - 1		- - 2	- 2 2
IT																							- 1 1		
ME																						1 2 1			
MK																						- 2 1			
PL																								- - 2	
RO																						3 - 1			- - 2
SK																									- - 1

<220 kV
220 kV
380/400 kV and 750 kV

As of 31.12.2008

Country	Name of line or equipment	Voltage in kV	Main characteristics and comments impact on interconnection capacity
AT	No. 438; Second system: Duernrohr (AT) - Slavetice (CZ)	380	
BE	Scheldelaan - 7de Havendok	150	Second circuit including a partial replacement of an existing circuit (ca. 1,15 km), ca.6 km, AC line; no impact
	Mercator - Lint	380	Fourth circuit, ca.3 km , AC line; no impact
	Moen - Zwevegem	150	Single circuit, ca.2,6 km, AC line; no impact
	Dhanis - Wiertz	150	Single circuit, ca.2,5 km, AC line; no impact
	Burcht - Petrol - Zurenborg	150	Double circuit replacing an existing single circuit, AC cable, ca.1,9 km; no impact
	Van Eyck	380/380	Phase shifting transformator 1400 MVA. The commissioning of a phase shifter in Zandvliet and two phase shifters in Van Eyck allows a better control of loop flows. This commissioning permits to minimizethe negative effects of increasung loop flows on the NTC-values. Commissioning on 2ndSeptember 2008
	Van Eyck	380/380	Phase shifting transformator 1400 MVA. The commissioning of a phase shifter in Zandvliet and two phase shifters in Van Eyck allows a better control of loop flows. This commissioning permits to minimizethe negative effects of increasung loop flows on the NTC-values. Commissioning on 11thSeptember 2008
	Zandvliet	380/380	Phase shifting transformator 1400 MVA. The commissioning of a phase shifter in Zandvliet and two phase shifters in Van Eyck allows a better control of loop flows. This commissioning permits to minimizethe negative effects of increasung loop flows on the NTC-values. Commissioning on 9thSeptember 2008
	Brume	380/70	Transformator 110 MVA; no impact
	Schelle	150/70/ 10-15	Replacement of an existing transformator 145 MVA; no impact
	Mechelen	150/70	Transformator 125 MVA; no impact
	Mechelen	150/10	Transformator 40 MVA; no impact
	Walgoed	150/10	Transformator; no impact
	Wiertz	150/11	Transformator 50 MVA; no impact
	Baudour	150	Capacitor bank 75 Mvar.The installation of the capacitor bank was needed, to maintain the voltage level when importing significant amounts.
	Kallo	150	Capacitor bank 75 Mvar. The installation of the capacitor bank was needed, to maintain the voltage level when importing significant

T12 Main grid developments

Country	Name of line or equipment	Voltage in kV	Main characteristics and comments impact on interconnection capacity
BE	Merksem	150	Capacitor bank 75 Mvar. The installation of the apacitor bank was needed, to maintain the voltage level when importing significant amounts.
	Mol	150	Capacitor bank 75 Mvar. The installation of the apacitor bank was needed, to maintain the voltage level when importing significant amounts.
	Petrol	150	New substation; no impact
BG	RUEN	400	The line is between Chervena mogila in BG and Dubrovo in MK.
CH	Mendrisio (CH) - Cagno (IT)	380	8 km cable. No significant increase.
CZ	Slavetice (CZ) - Duernrohr (AT)	380	Double circuit (replacing excisting single circuit). The new double line will significantly contribute to the enhacement of the transmission system security.
	Transformer T403 Dasny	400/110	350 MVA
DE	Ragow	380/220	Transfomer; no impact
	Lauchstädt - Vieselbach	380	OHL (2 circuits); no impact
	Ragow - Wustermark	380	OHL (circuit 1); no impact
	Ragow - Streumen	380	OHL (circuit 2); no impact
FR	Yvelines Ouest	400	New substation
	Bergholz	225	New substation
	Chartes Sud	225	New substation
	Espiers	225	New substation
	Favary	225	New substation
	Le Long Champ	225	New substation
	Le Soler	225	New substation
	Quartes	225	New substation
	Salles Curan	225	New substations
	One new substation in RTE network	150	New substations
	Five new substations in RTE network	90	New substations
	Six new substations in RTE network	63	New substations
	217 km of new /refurbished circuits	400	217 km of new/refurbished circuits (combined with 72 km of removed installations and various modifications) including: - the overhead line between Marlenheim, near Strasbourg, and Vigy, near Metz to improve the security of electricity supply of the regions Alsace and Lorraine;

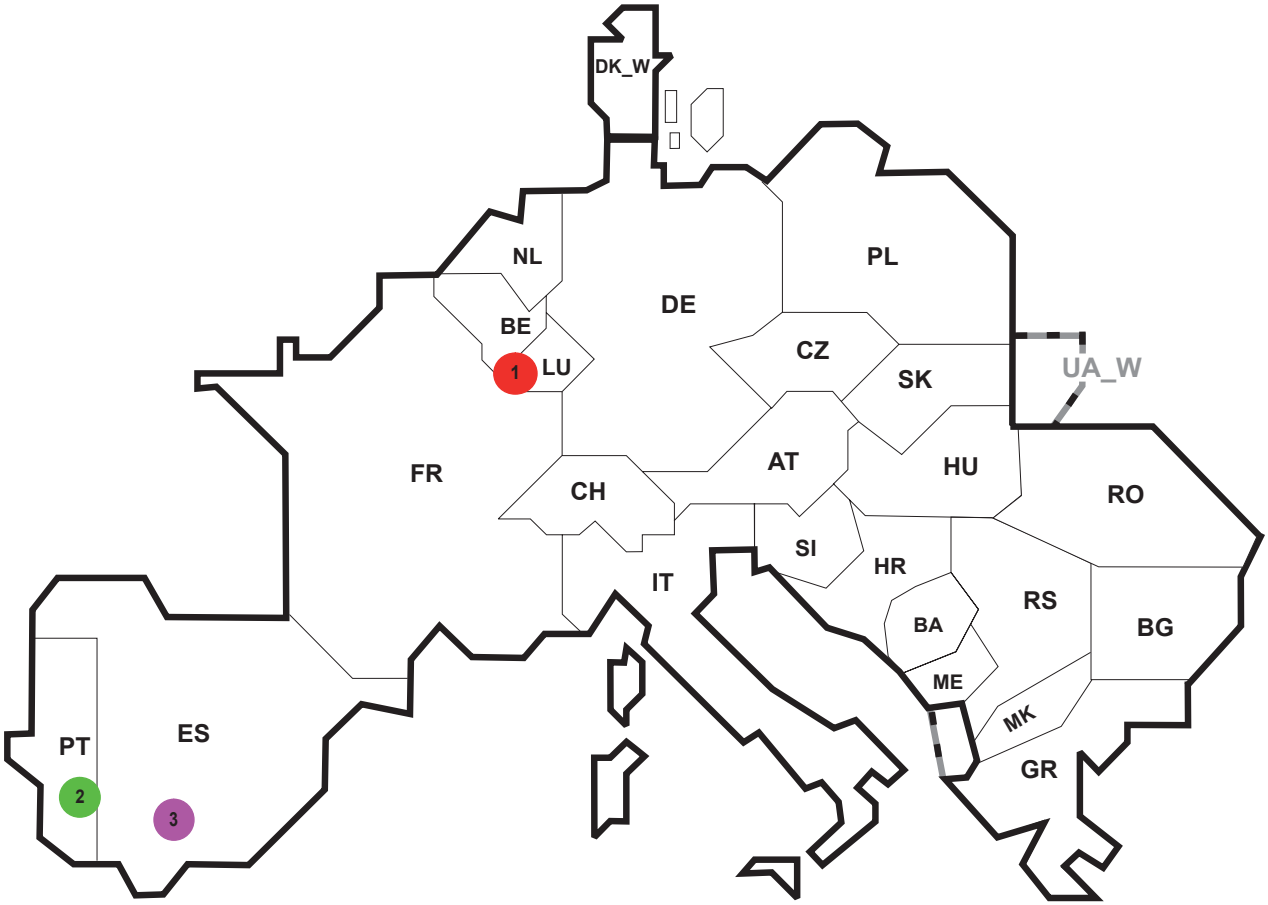
Country	Name of line or equipment	Voltage in kV	Main characteristics and comments impact on interconnection capacity
FR			- the overhead lines Warande-Weppes and Avelin-Warande after partial replacement of the conductors.
	329 km of new /refurbished circuits	225	329 km of new or refurbished circuits (combined with 260 km of removed installations and various modifications) including: - the underground line Elancourt - Yvelines Ouest to secure the electricity supply of south-west Paris region; - the overhead lines Bergholz-Marlenheim and Bergholz-St Avold-Sarreguemines in the departments of Moselle and Bas-Rhin, to supply Bergholz substation; Beautor-Le Long Champ and Beautor-Soissons Notre Dame-Rupreux in the department of Aisne, to reinforce the supply of Soissonnais area; - the overhead lines Pusy-Rolampont in Haute-Saône and Haute-Marne departments, Montahut-St Vincent in Hérault and Aveyron departments, Jonquières-St Césaire in Gard department, Compiègne-Moru in Oise department, after replacement of the conductors.
GR	OHL 400 kV S/S N.Santa (GR) - Babaeski (TR)	400	The construction of the new OHL 400 kV S/S N.Santa (GR) - Babaeski (TR) has been completed in 2008. The official commissioning of this line is expected for 2009. this line will comprise an upgrade of the existing OHL 150 kV S/S Didymotiho (GR) -Hamibat (TR), which has been commissioned in 2007.
HU	OHL Békéscsaba (HU) - Nadab (RO)		Increasing the capacity offered to the market.
IT	Phase shift transformer	220	PST of 370 MVA; device installed in the 220 kV border substation Padriciano
	Lines	150/132	A total of 23 new lines
	Bari Ovest - Palo del Colle	380	New line for a total length of 11,5 km
	Avenza - Sarmato	220	New line for a total length of 131,2 km
	Capacitors banks	380	Capacitor bank of 54 MVAr
	Reactor bank	380	Reactor bank of 200 MVAr
	Transformers	380/220	New transformers for a total of 1030 MVA
	Mendrisio (CH) - Cagno (IT)	380	New interconnection line Italy and Switzerland
	Palo del Colle - Foggia	380	New line for a total lenght of 113,9 km
	Substations	380/150/132	132 kV were installed
MK	Stip - Cervena Mogila	400	Interconnection line Macedonia-Bulgaria

T12 Main grid developments

Country	Name of line or equipment	Voltage in kV	Main characteristics and comments impact on interconnection capacity
NL	NorNed	450	DC cable; 700 MW
PT	Alto Lindose - Riba de Ave line 2	400	Reinforcment of transmission capacity on already existing circuits (lines&bays). Facilitates flows on Minho (PT)-Galiza (ES) interconnetion.
	Pedralva substation autotransformation	400/150	New 400/150 kV, 2x450 MVA, autotransformation. This reinforcement is associated with Minho (PT)-Galiza (ES) interconnection. Besides, facilitates renewable energy reception.
	Alto Lindose - Pedralva line	400	Opening of Lindoso-Riba de Ave 1 already existent 400 kV line at new Pedralva substation (39,2 km plus 21,2 km minus 59,1 km). This reinforcement is associated with Minho (PT)-Galiza (ES) interconnection. Besides, facilitates renewable energy reception.
	Valdigem - Vermoim 4 line	400	Refurbishment of an old 220 kV line into a 400 kV double line (74 km). Reinforcement of Douro axis, preparing future 400 kV connections between Aldeadavila (ES)-Lagoaa (PT) and Oporto areas.
	Vila Pouca de Aguiar substation	220	New 220 kV substation. First stages on the creation of a 220 kV loop in Portugal Northern area, facilitating renewable energy reception and also facilitating flows on Douro interconnection.
	Macedo de Cavaleiros substation	220	New 220 kV substation. First stages on the creation of a 220 kV loop in Portugal Northern area, facilitating renewable energy reception and also facilitating flows on Douro interconnection.
	Alto Lindoso - Riba de Ave line 1	400	Reinforcement of transmission capacity on already existing circuits (lines&bays). Facilitates flows on Minho(PT)-Galiza (ES) interconnection.
	Valdigem - Vila Pouca de Aguiar line	220	New 220kV line (45 km). First stages on the creation of a 220 kV loop in Portugal Northern area, facilitating renewable energy reception and also facilitating flows on Douro interconnection.
	Valdigem - Macedo de Cavaleiros line	220	New 220kV line (31 km). First stages on the creation of a 220 kV loop in Portugal Northern area, facilitating renewable energy reception and also facilitating flows on Douro interconnection.

T12 Main grid developments

Country	Name of line or equipment	Voltage in kV	Main characteristics and comments impact on interconnection capacity
PT	Pedralva - Riba de Ave line	400	Opening of Alto Lindos-Riba de Ave line 1 already excistent 400 kV line at new Pedralva substation (39,2 km plus 21,2 km minus 59,1 km). This reinforcement is associated with Minho (PT)-Galiza (ES) interconnection. Besides, facilitates renewable energy reception.
RO	OHL Nadab (RO) - Békéscsaba (HU)	400	Thermal transmission capacity: 1860 A; temporary capacity. 1600 A due to the curent transformer. Increasing of RO interconnection capacity with 100 MW export / 200 MW import

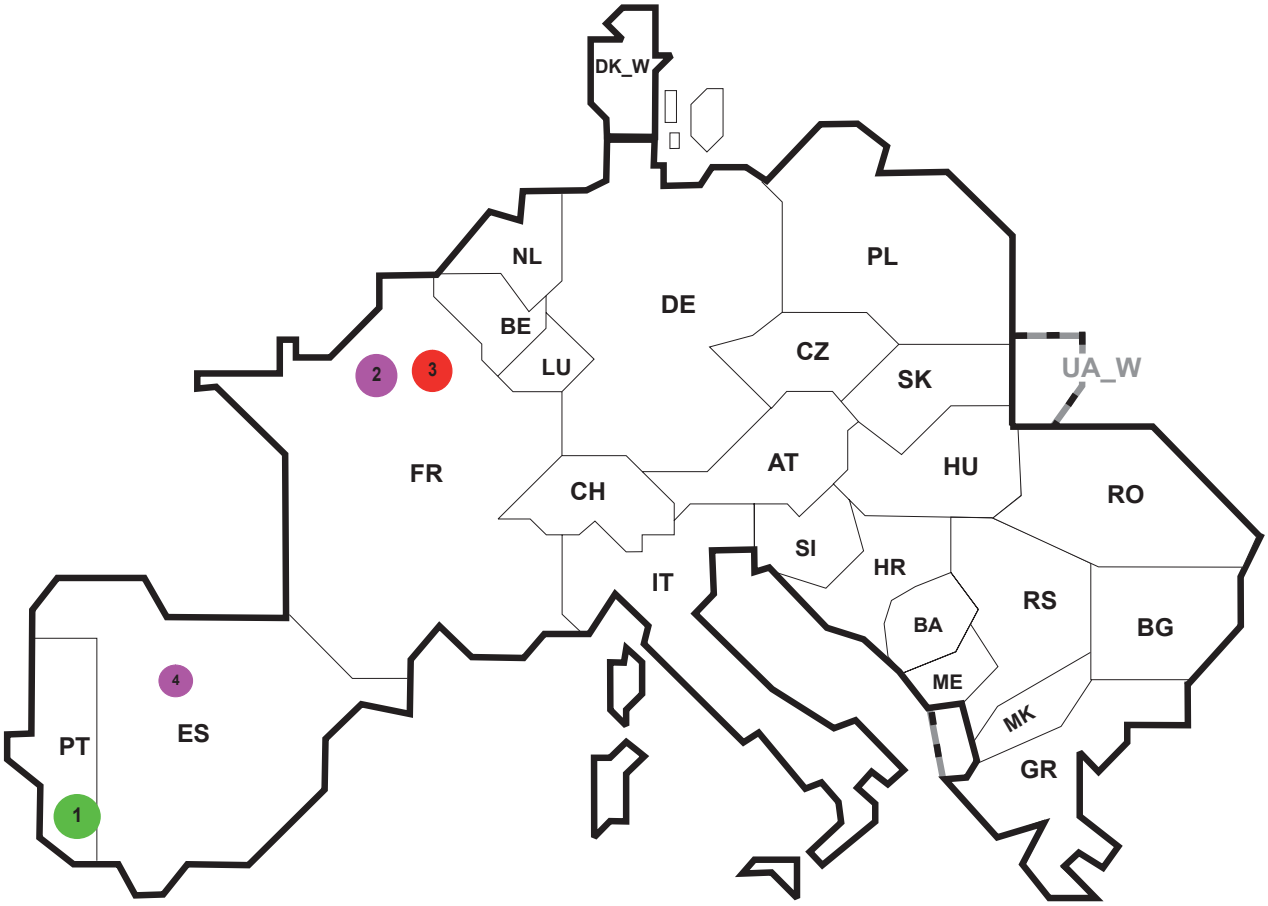


Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation		
R6	Failure in protection device or other element	R9	Other reasons
R7	Outside impacts (animals, trees, fire, avalances,...)	R10	Unknown reasons

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	LU	Schifflange	R6	16	138	7	1,242
2	PT	Torrao	R7	7	0	4	0,071
3	ES	Los Barrios	R9	2	294	50	0,005

[1] (year [in min] * energy not supplied) / consumption last 12 months

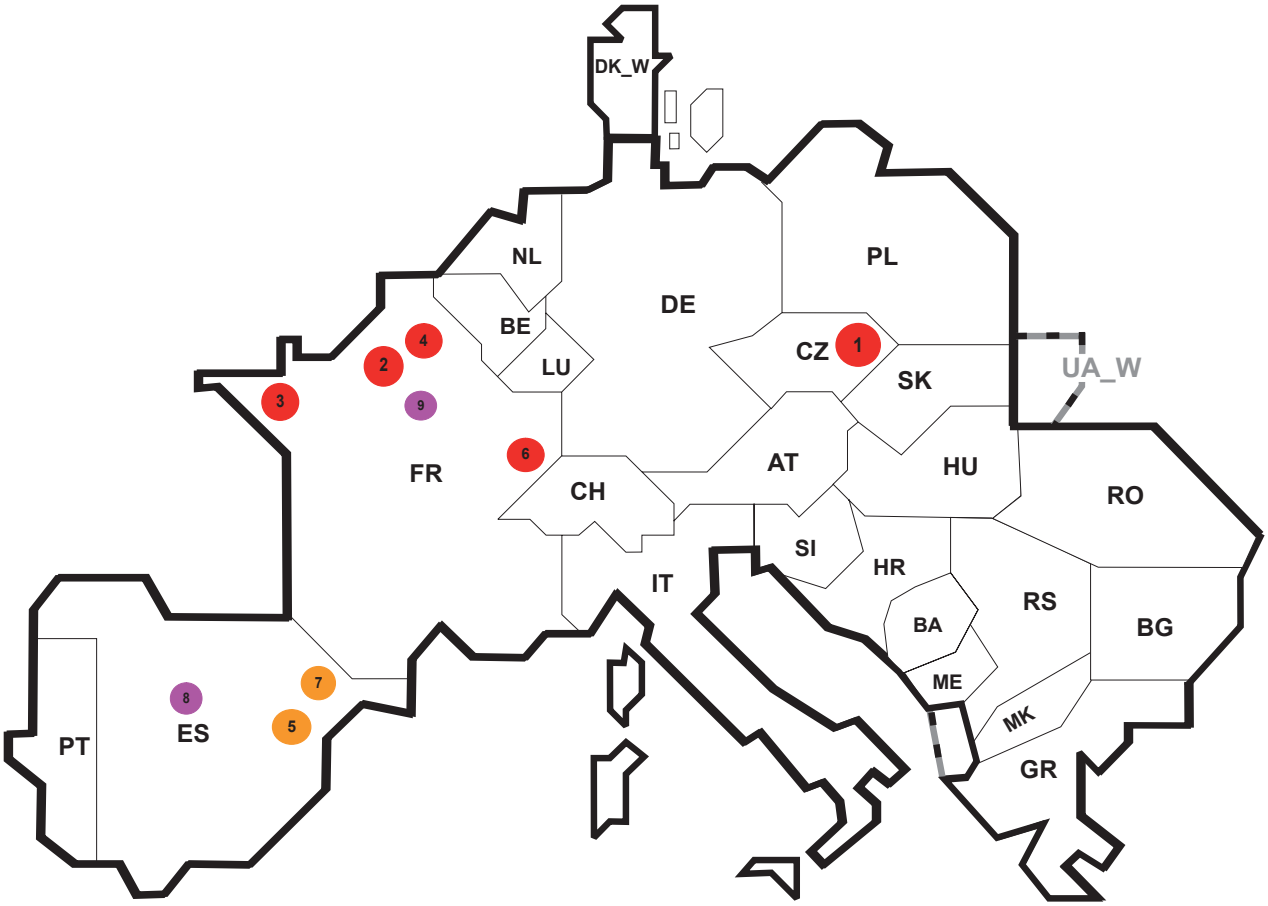


Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation		
R6	Failure in protection device or other element	R9	Other reasons
R7	Outside impacts (animals, trees, fire, avalances,...)	R10	Unknown reasons

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	PT	Estoi	R7	6	0	4	0,058
2	FR	Fallou	R9	9	58	9	0,010
3	FR	Les Loges	R6	5	19	15	0,005
4	ES	Otero	R10	1	620	23	0,002

[1] (year [in min] * energy not supplied) / consumption last 12 months

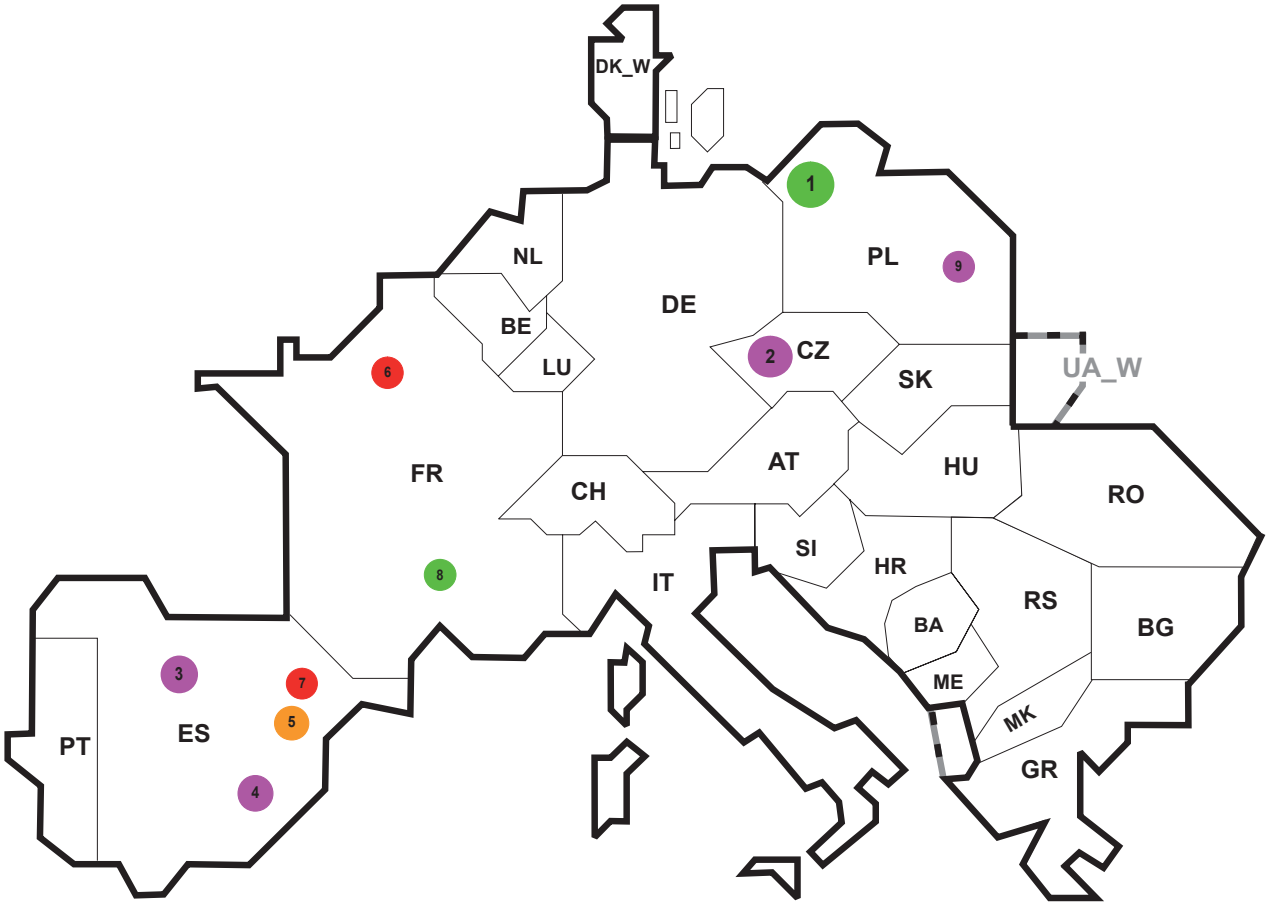


Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation	R9	Other reasons
R6	Failure in protection device or other element	R10	Unknown reasons
R7	Outside impacts (animals, trees, fire, avalances,...)		

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	CZ	Vitkov	R6	26	220	9	0,209
2	FR	Gatellier	R6	64	69	56	0,069
3	FR	Pontchateau	R5	15	36	25	0,016
4	FR	Alma	R6	6	51	7	0,006
5	ES	Bellicens	R4	1	1915	1	0,002
6	FR	Graffenstaden	R6	2	18	5	0,002
7	ES	Urgell	R4	1	20	3	0,002
8	ES	Otero	R10	1	15	5	0,001
9	FR	Cardinet	R9	1	27	2	0,001

[1] (year [in min] * energy not supplied) / consumption last 12 months

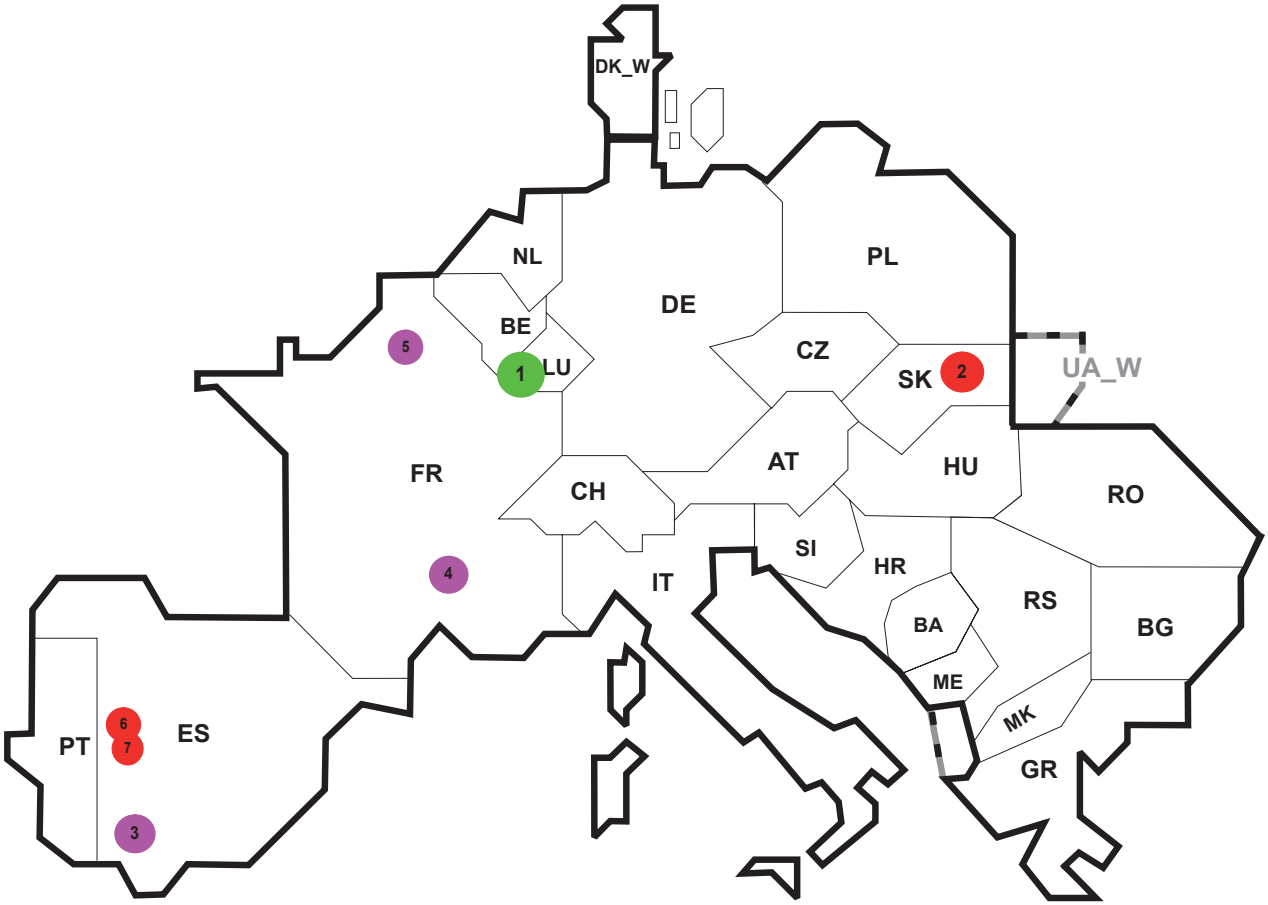


Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation		
R6	Failure in protection device or other element	R9	Other reasons
R7	Outside impacts (animals, trees, fire, avalances,...)	R10	Unknown reasons

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	PL	Krajnik	R8	2170	130	840	7,941
2	CZ	Chrast	R10	13	0	3	0,104
3	ES	C. Fregacedos	R10	25	3992	74	0,049
4	ES	La Fortuna	R10	4	4117	622	0,008
5	ES	Maragall	R4	4	1859	0	0,007
6	FR	St.Ouen	R6	3	35	5	0,003
7	ES	Vic	R5	2	1160	820	0,003
8	FR	Semnaire	R7	2	5	25	0,002
9	PL	Kozienice	R9	0	167	71	0

[1] (year [in min] * energy not supplied) / consumption last 12 months

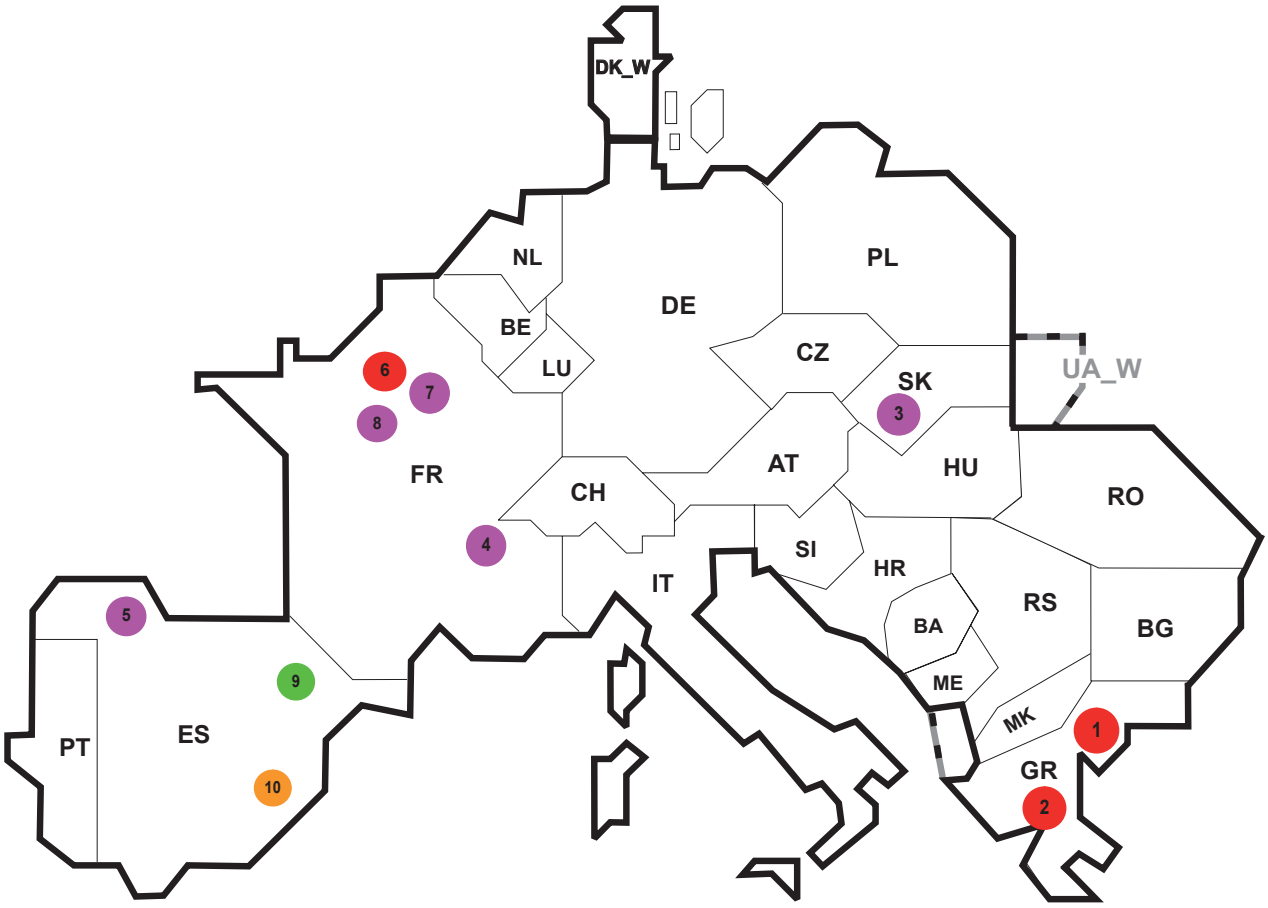


Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation	R9	Other reasons
R6	Failure in protection device or other element	R10	Unknown reasons
R7	Outside impacts (animals, trees, fire, avalances,...)		

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	LU	Schifflange	R7	6	47	7	0,420
2	SK	Medzibrod	R6	11	32	20	0,200
3	ES	Onuba	R10	41	0	11	0,080
4	FR	St Joseph	R9	34	30	67	0,036
5	FR	Mezerolles	R10	6	39	10	0,007
6	ES	Manso Figueras	R6	3	0	4	0,007
7	ES	Manso Figueras	R6	2	0	86	0,004

[1] (year [in min] * energy not supplied) / consumption last 12 months

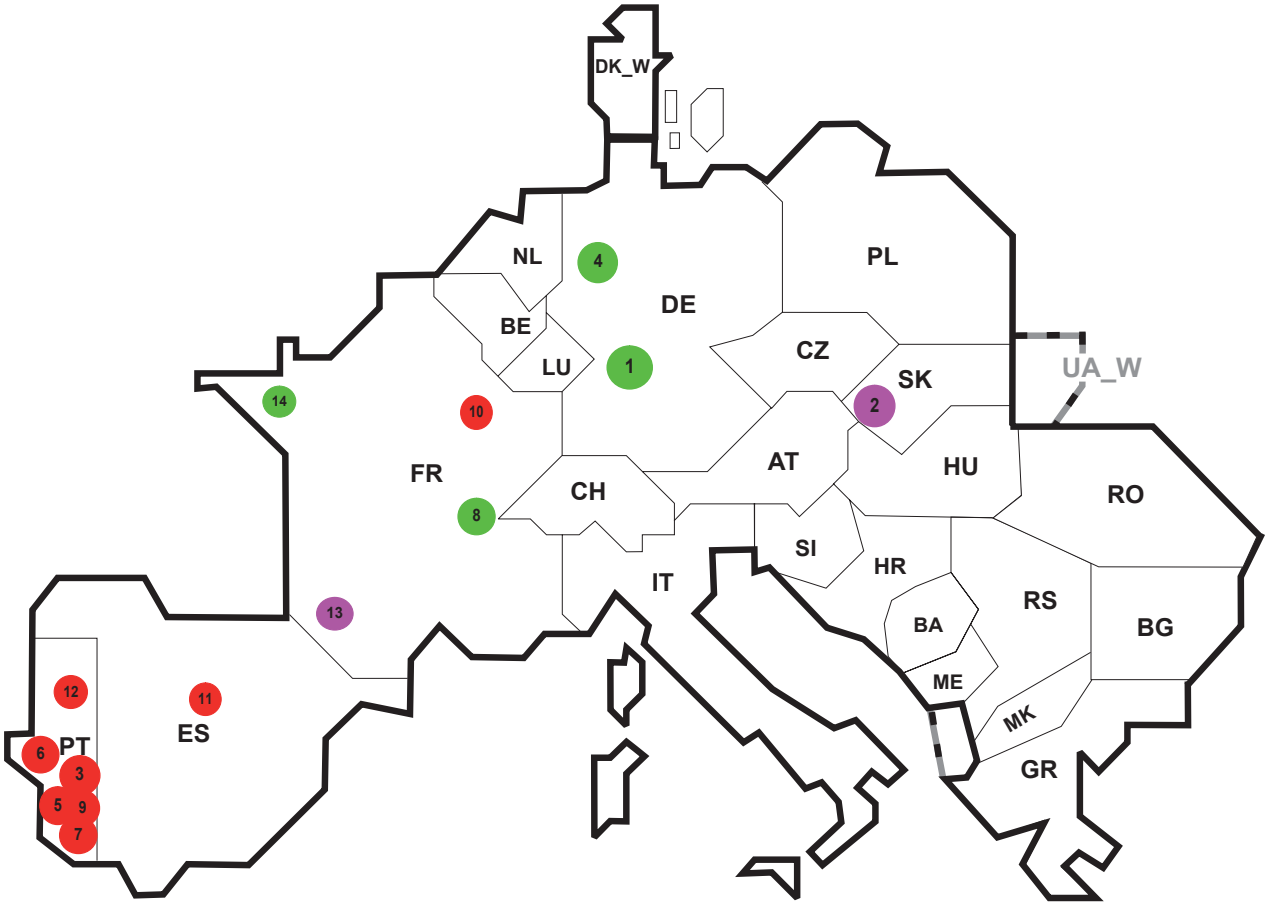


Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation		
R6	Failure in protection device or other element	R9	Other reasons
R7	Outside impacts (animals, trees, fire, avalances,...)	R10	Unknown reasons

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	GR	Kardia	R6	4950	550	540	46,275
2	GR	Agios Dimitrios	R6	4300	860	300	40,199
3	SK	Levice	R9	46	70	15	0,866
4	FR	Ugine	R9	115	16	430	0,123
5	ES	Pinar del Rey	R10	45	26746	70	0,087
6	FR	Buttes Chaumont	R6	8	49	10	0,009
7	FR	Charenton	R9	6	12	32	0,007
8	FR	Pasquier	R9	6	18	18	0,006
9	ES	Sabianigo	R7	2	9602	228	0,003
10	ES	Elche	R4	1	5060	24	0,002

[1] (year [in min] * energy not supplied) / consumption last 12 months

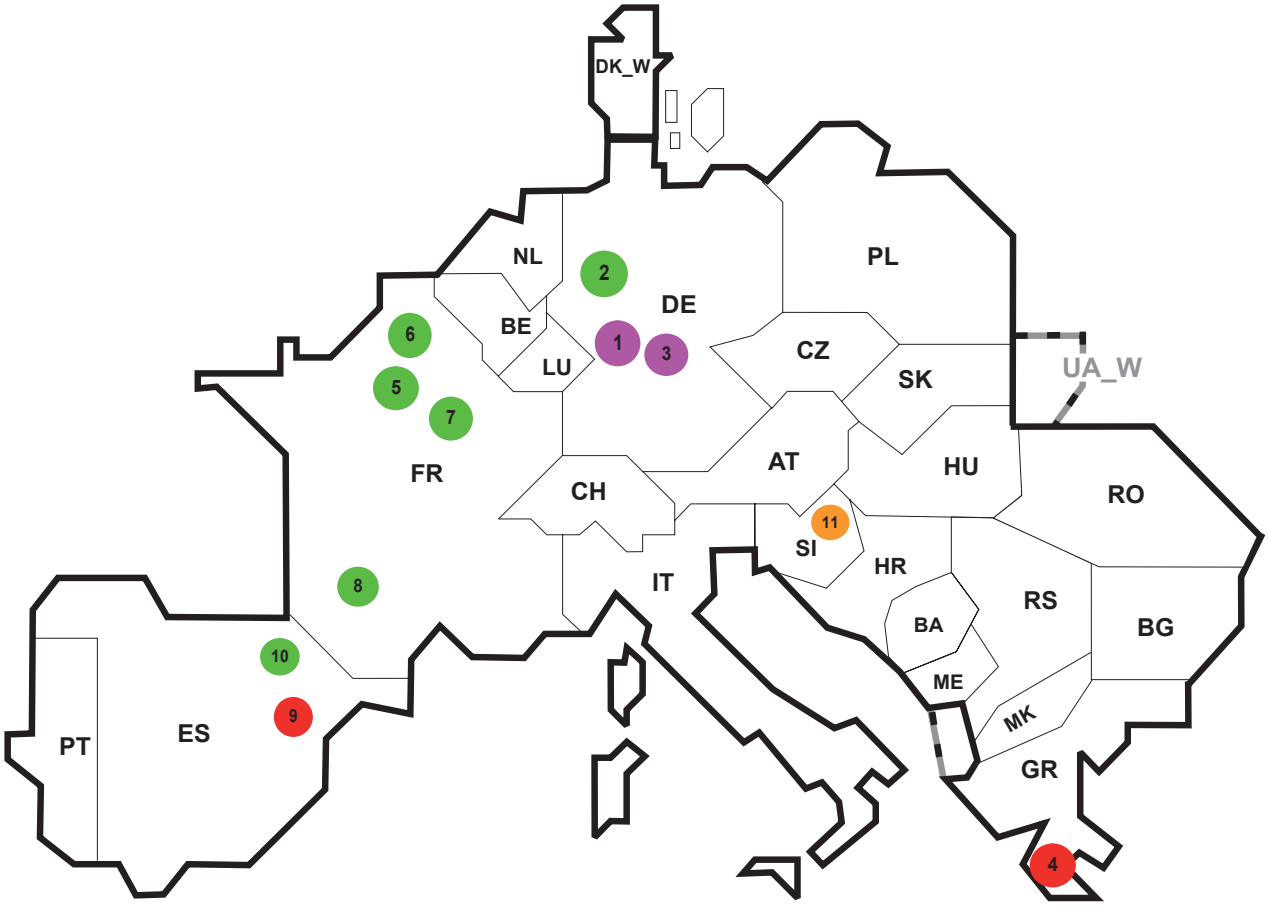


Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation		
R6	Failure in protection device or other element	R9	Other reasons
R7	Outside impacts (animals, trees, fire, avalances,...)	R10	Unknown reasons

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	DE	Buerstadt	R7	6556	700	562	6,174
2	SK	S.N. Ves	R9	17	78	13	0,320
3	PT	Estoi	R5	27	0	10	0,275
4	DE	Kusenhorst	R8	150	360	25	0,141
5	PT	Portimo	R5	13	0	10	0,130
6	PT	Sines	R5	7	0	6	0,067
7	PT	Tunes	R5	2	0	1	0,025
8	FR	Mambelin	R7	21	53	24	0,023
9	PT	Neves Corvo	R5	2	0	1	0,016
10	FR	Moulaine	R6	14	36	23	0,014
11	ES	Lucero	R5	2	1495	35	0,005
12	PT	Saboia-Luzianes	R5	0	0	10	0,002
13	FR	Hourat	R9	1	1	45	0,001
14	FR	Laval	R8	1	5	7	0,001

[1] (year [in min] * energy not supplied) / consumption last 12 months

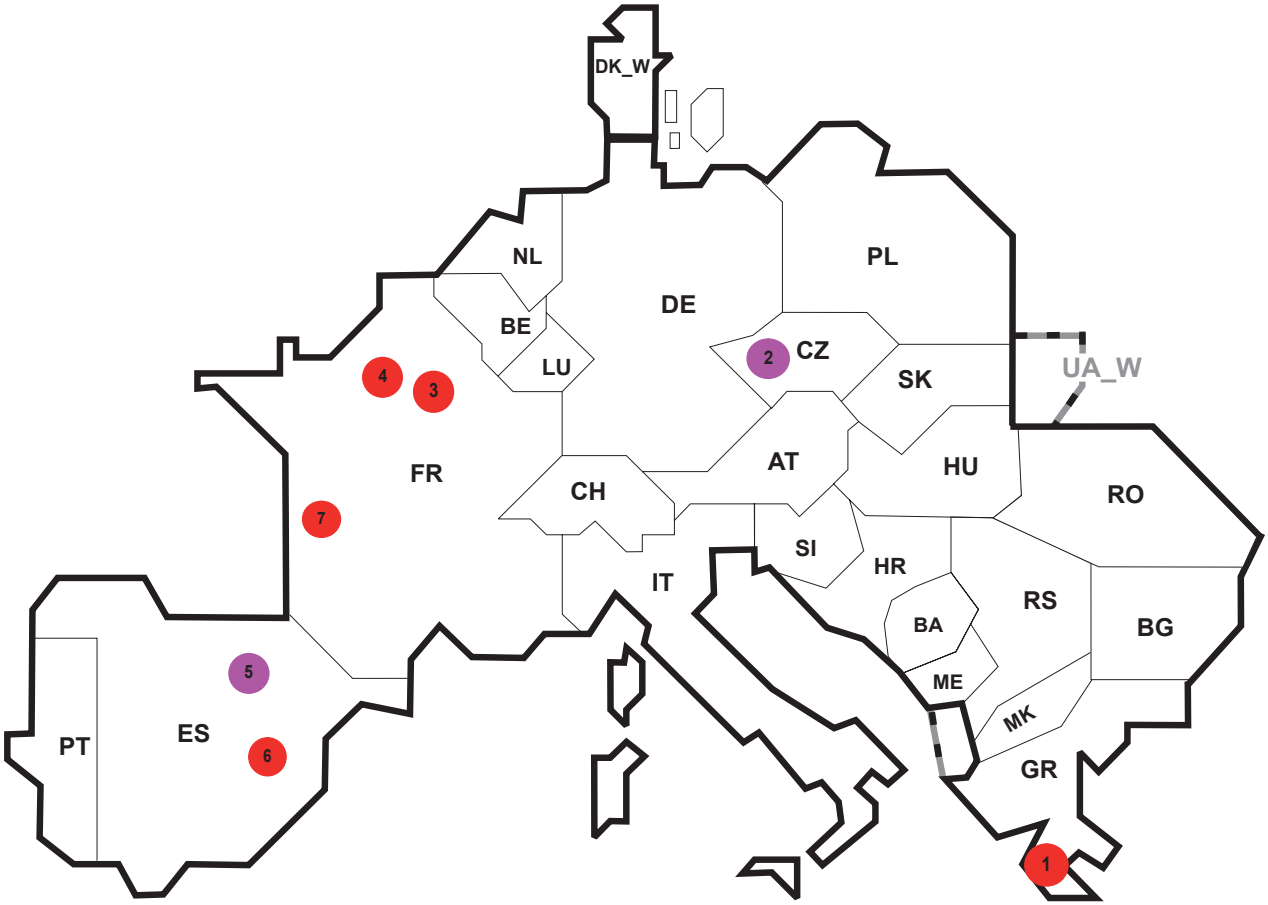


Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation		
R6	Failure in protection device or other element	R9	Other reasons
R7	Outside impacts (animals, trees, fire, avalances,...)	R10	Unknown reasons

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	DE	Buerstadt	R10	8140	1200	407	7,671
2	DE	Hanekenfaehr	R7	7470	1330	337	7,039
3	DE	Buerstadt	R10	5400	1200	270	5,089
4	GR	Lavrion	R6	300	600	30	2,797
5	FR	Nemours	R8	36	12	182	0,039
6	FR	Estre	R8	27	9	179	0,029
7	FR	Capelle	R8	14	6	143	0,015
8	FR	Chesnoy	R8	14	10	86	0,015
9	ES	Can Jard	R5	0	1656	18	0,001
10	ES	La Fortunada	R8	0	0	10	0
11	SI	Beričevo	R4	0	0	6	0

[1] (year [in min] * energy not supplied) / consumption last 12 months

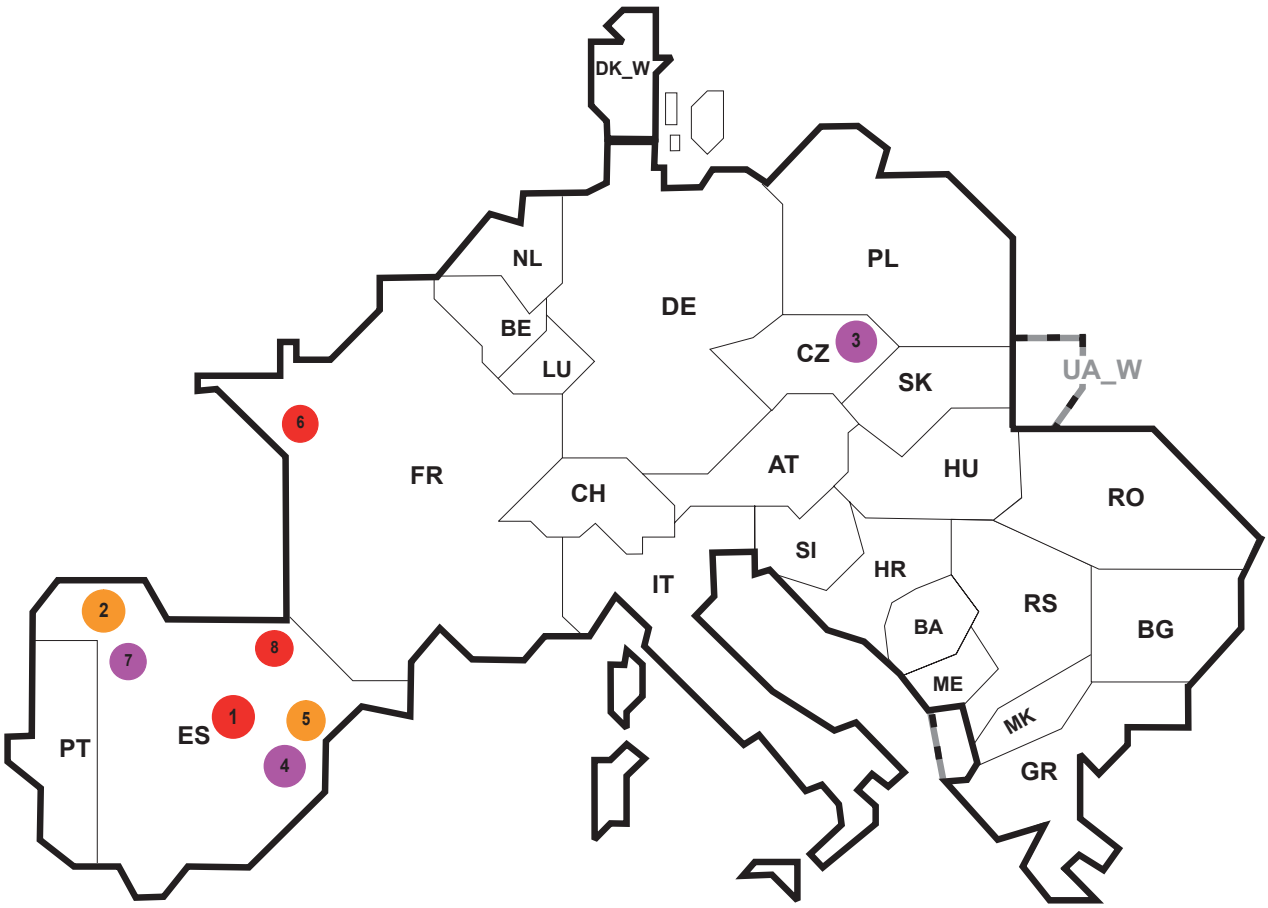


Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation	R9	Other reasons
R6	Failure in protection device or other element	R10	Unknown reasons
R7	Outside impacts (animals, trees, fire, avalances,...)		

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	GR	Lavrion	R6	724	724	60	6,727
2	CZ	Chrast	R9	46	123	11	0,366
3	FR	Alsace	R6	39	93	25	0,041
4	FR	Perret	R6	32	50	39	0,035
5	ES	Sidenorb	R9	4	24120	15	0,008
6	ES	Albarello	R5	1	5070	12	0,002
7	FR	Fleac	R6	1	39	152	0,001

[1] (year [in min] * energy not supplied) / consumption last 12 months

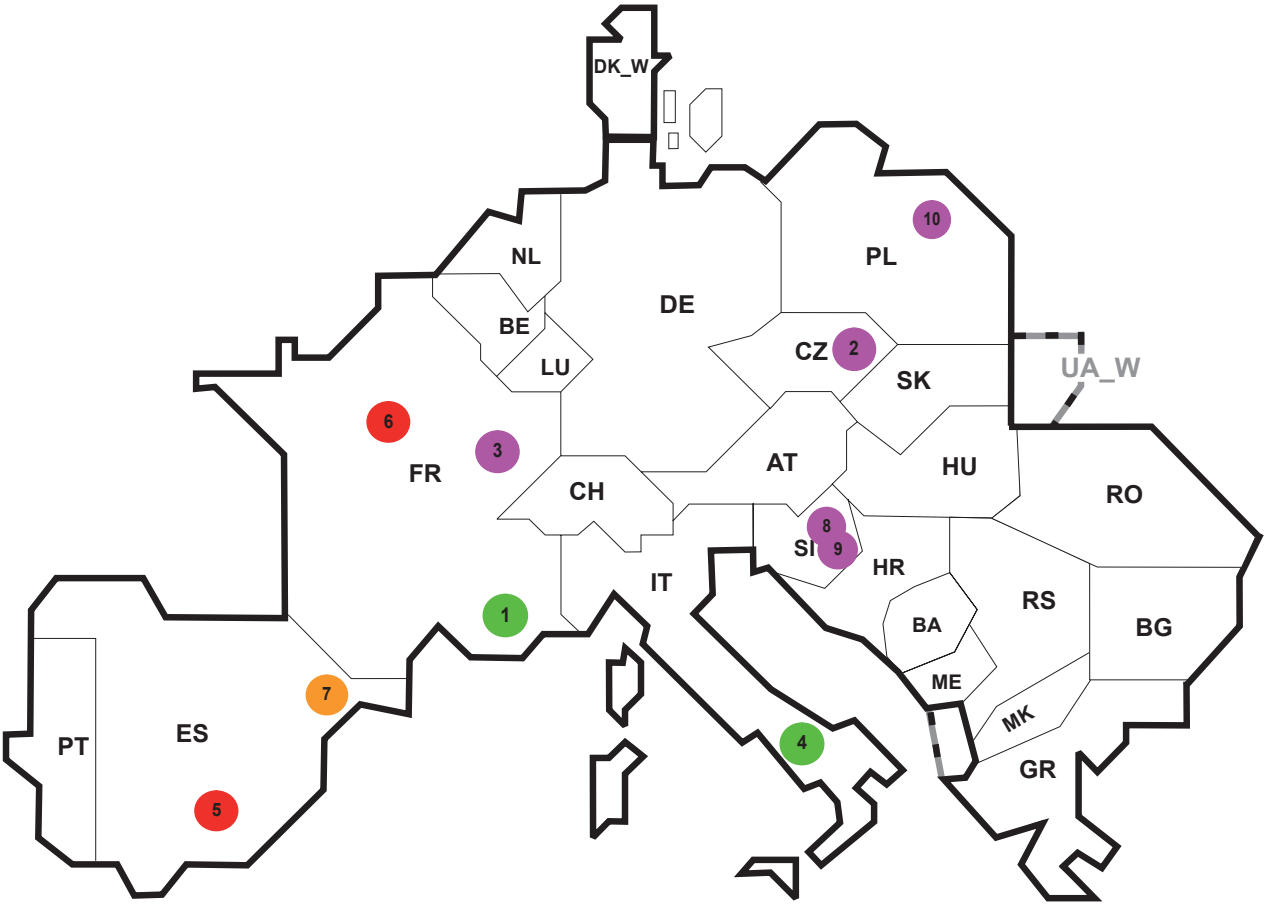


Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation		
R6	Failure in protection device or other element	R9	Other reasons
R7	Outside impacts (animals, trees, fire, avalances,...)	R10	Unknown reasons

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	ES	Moraleja	R5	154	0	35	0,298
2	ES	Puentes de Garcia Rodriguez	R4	134	0	451	0,260
3	CZ	Horni Zivotice	R9	11	0	4	0,084
4	ES	Aover	R10	22	0	82	0,043
5	ES	Rojales	R4	4	0	253	0,007
6	FR	Theix	R5	4	37	6	0,004
7	ES	Villares	R10	1	0	3	0,002
8	ES	Jundiz	R5	1	0	11	0,002

[1] (year [in min] * energy not supplied) / consumption last 12 months

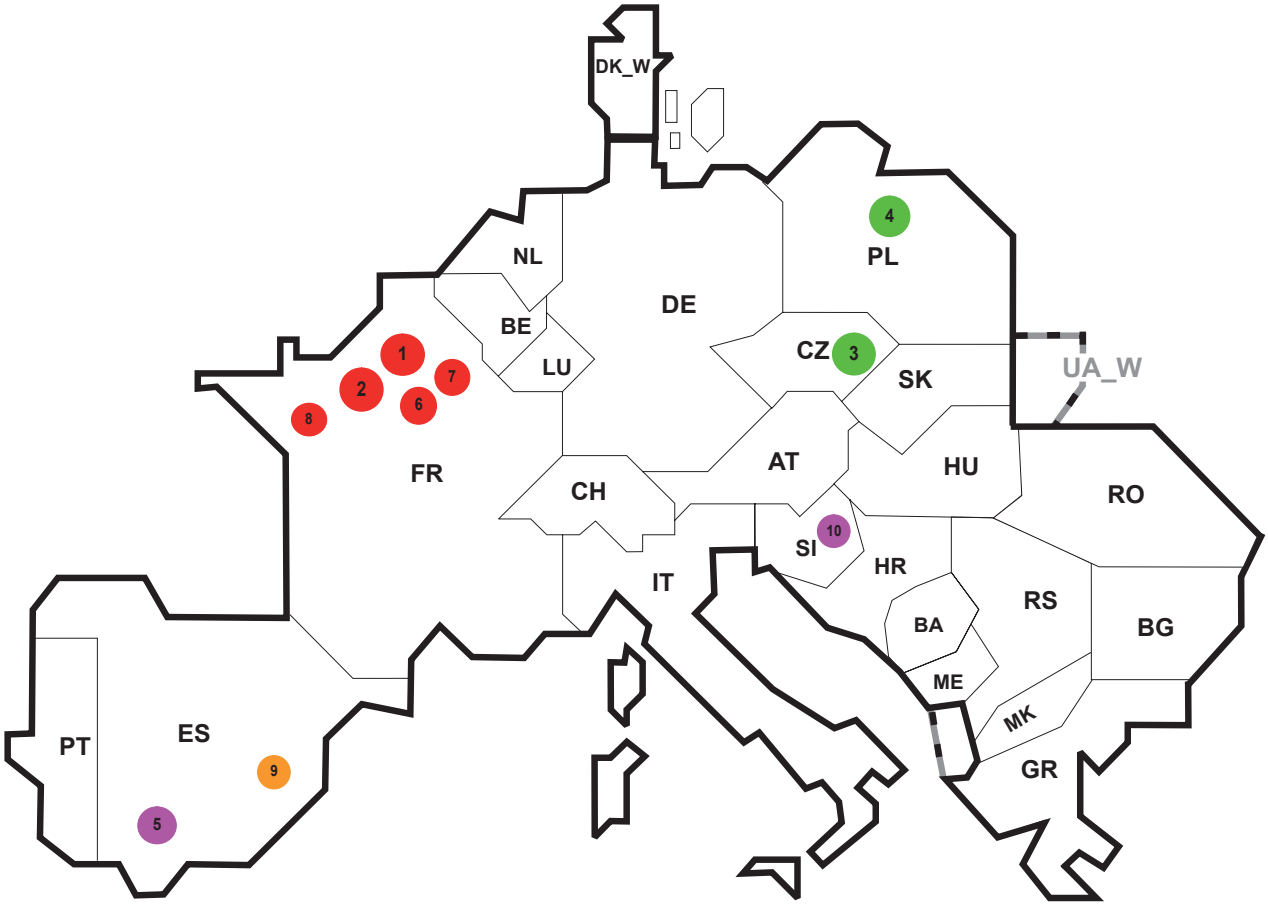


Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation		
R6	Failure in protection device or other element	R9	Other reasons
R7	Outside impacts (animals, trees, fire, avalances,...)	R10	Unknown reasons

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	FR	Neoules	R8	1544	1247	74	1,647
2	CZ	Otrokovice	R9	17	0	5	0,137
3	FR	Alsace	R9	17	65	16	0,019
4	IT	Sorgente	R8	7	80	5	0,011
5	ES	Retamar	R5	4	0	113	0,008
6	FR	Chevilly	R6	6	52	7	0,006
7	ES	Palau	R4	1	0	2	0,001
8	SI	Beričevo	R9	0	0	127	0
9	SI	Beričevo	R9	0	0	1949	0
10	PL	Wielopole	R9	0	200	161	0

[1] (year [in min] * energy not supplied) / consumption last 12 months



Reasons:

R4	Overload (also calculated break)	R8	Very exceptional conditions (weather, natural disaster, ...)
R5	False operation		
R6	Failure in protection device or other element	R9	Other reasons
R7	Outside impacts (animals, trees, fire, avalances,...)	R10	Unknown reasons

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	FR	Orangerie	R6	89	97	55	0,095
2	FR	St Hubert	R6	74	174	26	0,079
3	CZ	T402 Sokolnice	R7	8	125	4	0,065
4	PL	Konin	R7	4	18	11	0,015
5	ES	Dos Hermanas	R9	3	0	9	0,005
6	FR	Nanterre	R6	3	44	5	0,004
7	FR	Buttes Chaumont	R6	3	45	4	0,003
8	FR	Douvain	R5	1	9	5	0,001
9	ES	Ribarroja	R4	0	0	2	0
10	SI	Beričevo	R9	0	0	13	0

[1] (year [in min] * energy not supplied) / consumption last 12 months

Inventory of thermal units ≤ 10 MW as of 31 December 2008

Country	Inventory									
	Conventional thermal units								Nuclear thermal units	
	10 MW ≤ x < 200 MW		200 MW ≤ x < 400 MW		≥ 400 MW		Total		Total	
	Number	MW	Number	MW	Number	MW	Number	MW	Number	MW
AT	62	3146	8	2735	0	0	70	5881	0	0
BA	9	512	6	1445	0	0	15	1957	0	0
BE [2]	67	3023	12	3566	3	1380	82	7969	7	5825
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0	0
CH	20	332	0	0	0	0	20	332	5	3220
CZ	174	10118	0	0	1	460	175	10578	6	3537
DE [3]	403	23572	66	20178	47	27749	516	71499	17	20300
DK_W	31	899	8	2776	1	626	40	4301	0	0
ES	785	22152	53	18190	38	24207	876	64549	8	7465
FR	184	6113	21	5178	17	10091	222	21382	59	63260
GR	25	2547	20	5828	0	0	45	8375	0	0
HR [4]	24	1137	2	508	0	0	26	1645	0	0
HU	63	3468	9	1892	0	0	72	5360	4	1822
IT	1481	18904	98	30113	34	21684	1613	70701	0	0
LU	0	0	1	385	0	0	1	385	0	0
ME [1]	1	190	0	0	0	0	1	190	0	0
MK [4]	2	301	3	606	0	0	5	907	0	0
NL	111	4598	20	5821	19	11286	150	21705	1	485
PL [5]	n.a.	13724	62	14537	3	1448	n.a.	29709	0	0
PT	41	1753	16	4888	0	0	57	6641	0	0
RO	80	5565	13	3506	0	0	93	9071	2	1300
RS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0	0
SI [1]	2	276	1	312	1	672	4	1260	1	696
SK	34	1918	n.a.	n.a.	n.a.	n.a.	34	1918	5	2200
UCTE [6]	**3599**	**124248**	**419**	**122464**	**164**	**99603**	**4182**	**346315**	**115**	**110110**
UA_W	16	2347	0	0	0	0	16	2347	0	0

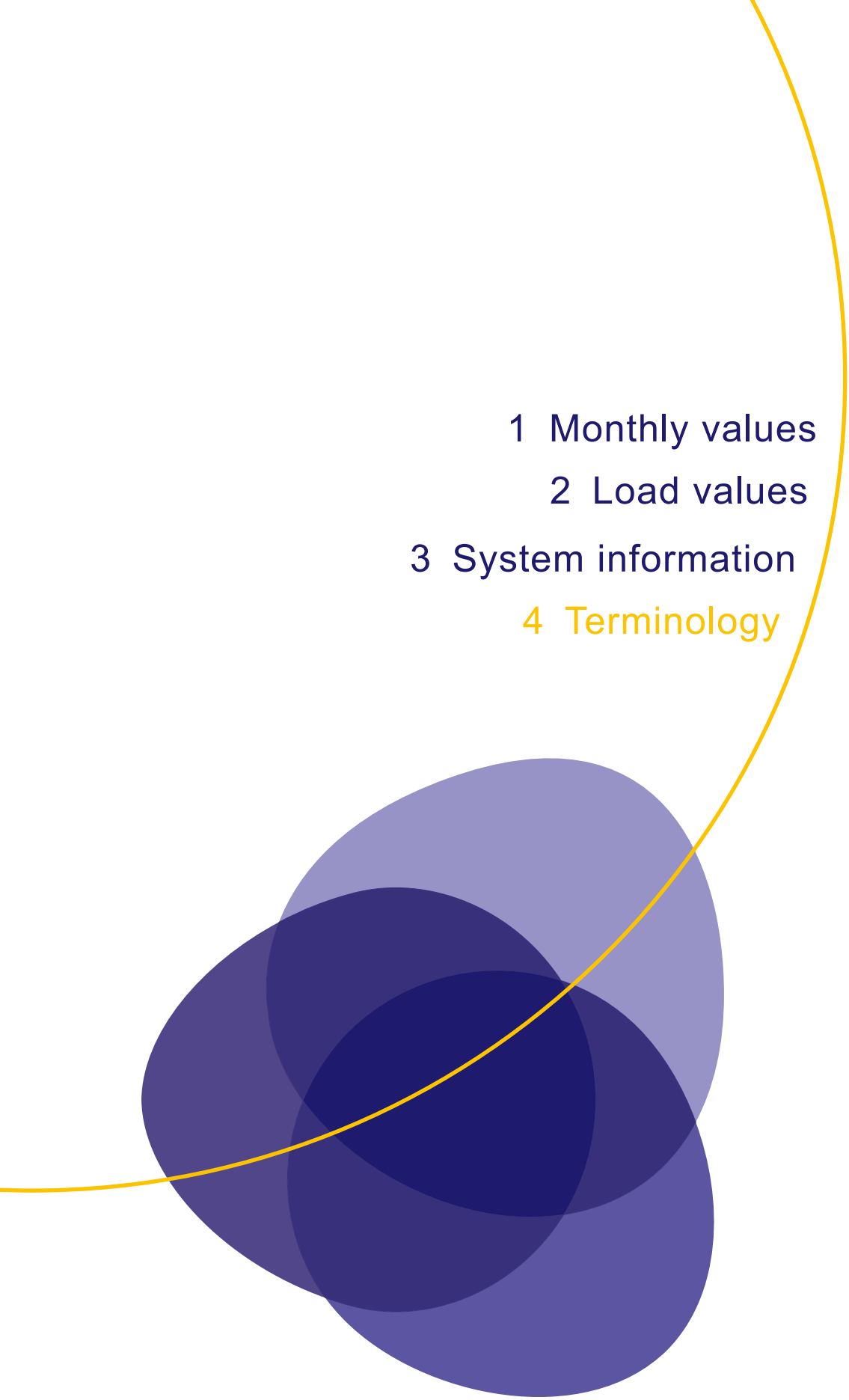
[1] Values on conventional thermal units as of 31 December 2007
[2] The ´Fossil fuels power units´ number and capacity contain also information regarding units that also burn biomass, biogas or waste besides fossil fuels.
[3] Values on conventional thermal units as of 31 December 2000
[4] Values on conventional thermal units as of 31 December 2004
[5] Units with the capacity <10MW are included in the range 10 MW-200 MW. No precise information about number of units with the capacity <50MW.
[6] Except Bulgaria and Serbia; including PL total number of 65

Inventory of hydro power units

Country	1 MW ≤ x < 10 MW		10 MW ≤ x < 50 MW		50 MW ≤ x < 100 MW		≥ 100 MW		**Total**	
	Number	MW	Number	MW	Number	MW	Number	MW	Number	MW
AT	582	910	100	2496	19	1473	27	6918	728	11797
BA	1	8	14	337	12	774	7	945	34	2064
BE	27	95	4	144	n.a.	n.a.	6	1164	31	239
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	185	650	101	2475	40	2705	36	7508	362	13338
CZ	74	379	6	212	6	484	6	1100	92	2175
DE [2]	234	898	78	1648	14	1026	15	4841	341	8413
DK_W	10	11	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	10	11
ES	495	1690	140	3184	42	2897	38	11038	715	18809
FR	523	1668	184	4425	40	2942	61	15879	808	24914
GR	35	109	4	73	2	120	11	2846	52	3148
HR [3]	22	69	21	576	6	453	8	978	57	2076
HU	11	46	0	0	0	0	0	0	11	46
IT	683	2156	232	5473	29	1960	42	11601	986	21190
LU	3	20	1	11	0	0	1	1096	5	1127
ME [1]	3	8	0	0	0	0	2	649	5	657
MK [3]	22	36	3	73	3	265	1	150	29	524
NL	3	12	2	25	n.a.	n.a.	n.a.	n.a.	5	37
PL [4]	74	151	21	504	5	292	8	1256	108	2203
PT	108	432	40	913	33	2199	8	1395	189	4939
RO	175	883	109	1987	17	1039	11	1869	312	5778
RS	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
SI [1]	1	8	11	314	5	319	2	230	19	871
SK	29	176	36	700	10	820	6	734	81	2430
UCTE [5]	**3300**	**10415**	**1107**	**25570**	**283**	**19768**	**296**	**72197**	**4980**	**126786**
UA_W	5	27	0	0	0	0	0	0	5	27

[1] Values as of 31 December 2007
[2] Values as of 31 December 2000
[3] Values as of 31 December 2004
[4] Additionally 124 MW in 818 Hydro power units with the capacity <1MW.
[5] Except Bulgaria and Serbia

1 Monthly values
2 Load values
3 System information
4 Terminology



Terminology index

The Terminology index contains all terms used in this Statistical Yearbook. The corresponding explanations are available on the ENTSO-E internet site www.entsoe.eu under "Resources / Data Portal CE / Terminology / Statistics".

Explanations to the UCTE Power Balance / System Adequacy (Table 8a and Table 8b) are also available on the ENTSO-E website under "Resources / Publications / Continental Europe / System Adequacy / System Adequacy Methodology" [1].

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[1] SAM - System Adequacy Methodology

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ENTSO-E

Avenue de Cortenbergh, 100
B-1000 Brussels – Belgium

Tel + 32 2 741 09 50
Fax + 32 2 741 09 51

info@enstoe.eu
www.entsoe.eu

European Network of
Transmission System Operators
for Electricity