UCTE

Statistical Yearbook 2004

union for the co-ordination of transmission of electricity

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Introduction

What is UCTE ?

The »Union for the Co-ordination of Transmission of Electricity« (UCTE) is an association of transmission system operators in continental Europe, providing a reliable market base by efficient and secure electrical »power highways«. The interconnected system ensures the technical condition for the reliable operation, and provides benefit for all market participants because they guarantee market access.
For more than fifty years UCTE has been co-ordinating by a variety of technical rules and recommendations the international operation of high voltage grids that all work with one »heart beat«: the 50 Hz UCTE frequency. UCTE is committed to the development of the system to meet all new market requirements, but without losses in terms of reliability for the existing system. The UCTE network brings a safe electricity supply for some 450 million people. Therefore UCTE handles one of the biggest electrical synchronous interconnections worldwide. This technical solution provides the possibility of the free market operation.

Keyfigures

33	Transmission System Operators (TSO)
23	European Countries
450 million	People served by the represented power systems
590 GW	Installed capacity
2400 TWh	Electricity consumption in 2004
260 TWh	Sum of electricity exchange between member TSO's under rules of UCTE
220.000 km	Length of high-voltage transmission lines managed by the TSO's

UCTE activities include the preparation of a statistical yearbook. This publication is the result of the ongoing efforts of the Working Group "Statistics", the national correspondents and the UCTE Secretariat on the development, processing and production of appropriate statistics.
Part of the statistical data are used for various graphical representations in other publications such as the Half-yearly Reports, the Memo and the Monthly Statistics, which are amongst others all available on the web site "http://www.ucte.org". Figures indicated for the various countries may differ from other national statistics published, since the former will only describe that part of the electricity supply system which is concerned with interconnected system operation. Consequently, these data will not be representative of the entire electricity supply system in any given country. This yearbook is therefore mainly a document, which has been produced to meet the needs of members of the UCTE.
The national correspondents responsible for the production of national data published in this yearbook are listed below. They will be able to provide information on the contents and the interpretation of these statistics.

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Terminology index

The Terminology index contains all terms used in this Statistical Yearbook. The corresponding explanations are available on the UCTE internet site (www.ucte.org) under "Statistics / General Terms" on the mentioned chapters.

Explanations to the UCTE Power Balance / System Adequacy (Table 8a and Table 8b) are also available on the UCTE website under "Statistics / Terms System Adequacy Assessment (SAA)".

Terminology index

MONTHLY VALUES 1

Monthly values

I

OPERATION AND PHYSICAL EXCHANGE BALANCE (PER COUNTRY FOR THE YEARS 1999, 2003, 2004)

Abbreviations used in tables

Σ ..... Sum of the 12 monthly values
∅ pond. ..... Weighted mean value
Max. ..... Maximal value of the year
III ..... Third countries

BG	Bulgaria until 2002
CZ	Czech Republic until 2000
HU	Hungary until 2000
PL	Poland until 2000
RO	Romania until 2002
SK	Slovak Republic until 2000
DK_W	Denmark West
UA_W	Ukraine West
AL	Albania
BY	Belarus
DK_E	Denmark East
GB	Great Britain
MA	Morocco
MD	Republic of Moldavia
NO	Norway
SE	Sweden
TR	Republic of Turkey

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

[1] FYROM = Former Yugoslav Republic of Macedonia
[2] Denmark West represents the Western part of Denmark synchronously interconnected with UCTE (Jutland and Funen)
[3] 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 conventional net production

Thermal nuclear net production

Hydraulic net production

Total net electrical energy production

Total physical import/export balance

Consumption of pumps

National electrical consumption

National electrical consumption as percentage of total values

Energy capability factor (hydro power)

Consumption load at 3:00 a.m. on the 3rd Wednesday

Consumption load at 11:00 a.m.on the 3rd Wednesday

Peak load on the 3rd Wednesday

Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.

Austria

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	12159
			2003	17832
			2004	22124
Thermal nuclear net production	GWh	Σ	1999	0
			2003	0
			2004	0
Hydraulic net production	GWh	Σ	1999	39009
			2003	30708
			2004	34298
Total net electrical energy production	GWh	Σ	1999	51168
			2003	48540
			2004	56422
Total physical import / export balance [1]	GWh	Σ	1999	-1978
			2003	5647
			2004	3182
Consumption of pumps	GWh	Σ	1999	1485
			2003	2913
			2004	3039
National electrical consumption	GWh	Σ	1999	47705
			2003	51274
			2004	56565
National electrical consumption as percentage of total values	%	∅ pond.	1999	84
			2003	90
			2004	90
Energy capability factor (hydro power)		∅ pond.	1999	1,10
			2003	0,86
			2004	0,99
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	5376
			2003	6481
			2004	6419
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	7542
			2003	8316
			2004	8607
Peak load on the 3rd Wednesday	MW	max.	1999	7804
			2003	8546
			2004	8894
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	9315
			2003	9131
			2004	9304

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1851	1828	1174	640	354	239	323	251	547	1223	1873	1856
1966	2241	1917	1298	467	468	942	1132	1321	1880	2085	2115
2468	2321	2382	1784	1326	1349	1202	1040	1564	1853	2356	2479
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
2416	2249	3162	3334	4300	4365	4253	3809	3336	2950	2476	2359
3106	2316	2411	2447	3505	3353	2868	2303	2144	2552	1906	1797
2134	2260	2611	2846	3431	3934	3889	3190	2893	2529	2434	2147
4267	4077	4336	3974	4654	4604	4576	4060	3883	4173	4349	4215
5072	4557	4328	3745	3972	3821	3810	3435	3465	4432	3991	3912
4602	4581	4993	4630	4757	5283	5091	4230	4457	4382	4790	4626
296	231	28	-76	-852	-927	-769	-357	-136	-122	97	609
53	228	518	549	71	160	419	774	750	264	704	1157
989	581	353	135	-182	-731	-409	219	158	592	487	990
48	39	96	125	226	178	199	197	113	78	67	119
174	139	226	210	306	276	283	361	232	215	244	247
227	193	174	237	247	317	369	271	219	270	234	281
4515	4269	4268	3773	3576	3499	3608	3506	3634	3973	4379	4705
4951	4646	4620	4084	3737	3705	3946	3848	3983	4481	4451	4822
5364	4969	5172	4528	4328	4235	4313	4178	4396	4704	5043	5335
85	85	85	83	82	82	83	83	83	83	85	85
90	90	90	90	90	90	90	90	90	90	90	90
90	90	90	90	90	90	90	90	90	90	90	90
1,06	1,06	1,29	1,17	1,09	1,06	1,09	1,04	1,11	1,15	1,00	1,06
1,38	1,02	1,01	0,80	0,92	0,/82	0,68	0,61	0,74	1,05	0,87	0,76
1,00	1,08	1,02	1,03	0,95	1,06	1,06	0,87	0,98	0,99	1,08	0,81
5118	**5376**	4678	4353	3650	3596	3720	3486	3756	4481	4994	5098
6481	6414	5562	5086	4637	4809	4754	4468	4619	5094	5455	6156
6075	5967	5344	5069	4854	4747	4767	4674	4944	5363	5897	**6419**
7486	**7542**	7083	6657	6044	6264	6456	6200	6361	6879	7493	7482
8301	**8316**	7538	7174	7004	7256	6956	6870	6828	7331	7757	8263
8191	8233	7661	7188	7107	7348	7196	7187	7583	7602	8138	**8607**
7543	7542	7128	6725	6167	6351	6555	6298	6473	6914	**7804**	7747
8337	8415	7606	7299	7179	7406	7133	7069	6942	7434	8030	**8546**
8511	8327	7744	7263	7280	7538	7388	7324	7781	7798	8528	**8894**
7404	8172	8786	7548	8457	**9315**	8349	7985	7394	8532	9040	7797
7260	**9131**	8515	6403	6199	7130	7923	7233	7402	8675	7467	8503
9304	8922	7601	7556	6110	7983	7526	6598	7998	7490	8717	8934

Physical exchanges in interconnected operation [1]

Austria | GWh

MM_YY	AT→CH	AT→CZ	AT→DE	AT→HU	AT→IT	AT→SI	AT_UCTE_EXP	AT_III_EXP	CH→AT	CZ→AT	DE→AT	HU→AT	IT→AT	SI→AT	AT_UCTE_IMP	AT_III_IMP	AT_UCTE_SLD	AT_III_SLD
	Export (-)								Import (+)								Balance	
I.99	400	1	289	0	133	311	1134	0	1	339	631	224	0	0	1195	0	61	0
II.99	278	3	299	0	117	279	976	0	6	296	551	211	0	0	1064	0	88	0
III.99	324	7	343	9	132	267	1082	0	2	281	669	169	0	0	1121	0	39	0
IV.99	370	11	265	7	135	351	1139	0	8	240	662	168	0	0	1078	0	-61	0
V.99	200	17	580	13	141	382	1333	0	28	216	300	52	0	0	596	0	-737	0
VI.99	185	18	672	20	163	303	1361	0	16	167	286	77	0	0	546	0	-815	0
VII.99	200	5	676	7	160	358	1406	0	17	274	211	150	0	1	653	0	-753	0
VIII.99	145	4	549	5	78	215	996	0	66	165	178	223	0	0	632	0	-364	0
IX.99	203	2	519	2	167	313	1206	0	99	357	273	192	0	0	921	0	-285	0
X.99	217	0	489	0	158	348	1212	0	69	436	299	218	0	0	1022	0	-190	0
XI.99	288	0	380	0	155	288	1111	0	38	409	586	202	0	0	1235	0	124	0
XII.99	335	0	282	2	148	140	907	0	25	456	864	132	0	4	1481	0	574	0
1999	**3145**	**68**	**5343**	**65**	**1687**	**3555**	**13863**	**0**	**375**	**3636**	**5510**	**2018**	**0**	**5**	**11544**	**0**	**-2319**	**0**
I.03	453	1	431	21	150	231	1287	0	8	452	832	79	0	20	1391	0	104	0
II.03	330	0	297	27	132	197	983	0	11	391	706	21	0	32	1161	0	178	0
III.03	376	1	265	35	141	240	1058	0	27	489	1047	25	0	34	1622	0	564	0
IV.03	431	0	191	11	145	272	1050	0	6	636	934	81	0	5	1662	0	612	0
V.03	220	0	391	23	151	344	1129	0	46	622	466	97	0	0	1231	0	102	0
VI.03	226	0	383	17	137	392	1155	0	78	692	515	68	0	0	1353	0	198	0
VII.03	171	0	352	16	138	323	1000	0	90	742	560	67	0	9	1468	0	468	0
VIII.03	287	0	223	21	74	219	824	0	37	694	833	64	0	26	1654	0	830	0
IX.03	421	0	147	55	157	180	960	0	22	723	980	11	0	28	1764	0	804	0
X.03	469	0	237	192	157	299	1354	0	10	738	914	6	0	3	1671	0	317	0
XI.03	273	0	221	38	138	184	854	0	21	649	870	43	0	31	1614	0	760	0
XII.03	405	0	195	12	144	185	941	0	15	800	1249	76	0	11	2151	0	1210	0
2003	**4062**	**2**	**3333**	**468**	**1664**	**3066**	**12595**	**0**	**371**	**7628**	**9906**	**638**	**0**	**199**	**18742**	**0**	**6147**	**0**
I.04	445	0	254	23	137	136	995	0	2	661	1296	59	0	13	2031	0	1036	0
II.04	537	0	297	29	126	161	1150	0	0	564	1152	38	0	12	1766	0	616	0
III.04	518	1	326	22	139	165	1171	0	1	443	1000	50	0	67	1561	0	390	0
IV.04	469	0	324	64	145	168	1170	0	3	533	757	37	0	13	1343	0	173	0
V.04	276	0	401	21	132	158	988	0	37	183	407	188	0	24	839	0	-149	0
VI.04	315	8	542	102	141	206	1314	0	23	268	296	17	0	5	609	0	-705	0
VII.04	181	0	674	40	152	210	1257	0	101	482	256	27	0	2	868	0	-389	0
VIII.04	177	0	427	34	112	145	895	0	59	655	328	65	0	18	1125	0	230	0
IX.04	311	0	333	49	125	224	1042	0	13	588	568	75	0	2	1246	0	204	0
X.04	283	0	288	30	136	139	876	0	38	626	730	68	0	14	1476	0	600	0
XI.04	379	0	292	48	136	174	1029	0	31	541	892	36	0	16	1516	0	487	0
XII.04	528	0	307	16	140	116	1107	0	1	704	1240	80	0	48	2073	0	966	0
2004	**4419**	**9**	**4465**	**478**	**1621**	**2002**	**12994**	**0**	**309**	**6248**	**8922**	**740**	**0**	**234**	**16453**	**0**	**3459**	**0**

[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→CS	BA→HR	BA_UCTE_EXP	BA_III_EXP	CS→BA	HR→BA	BA_UCTE_IMP	BA_III_IMP	BA_UCTE_SLD	BA_III_SLD
	Export (-)				Import (+)				Balance	
I.99	0	0	0	0	0	23	23	0	23	0
II.99	0	1	1	0	0	3	3	0	2	0
III.99	0	0	0	0	0	49	49	0	49	0
IV.99	0	67	67	0	0	0	0	0	-67	0
V.99	171	6	177	0	80	0	80	0	-97	0
VI.99	140	53	193	0	35	0	35	0	-158	0
VII.99	119	41	160	0	52	0	52	0	-108	0
VIII.99	143	30	173	0	62	0	62	0	-111	0
IX.99	176	40	216	0	51	0	51	0	-165	0
X.99	205	9	214	0	68	0	68	0	-146	0
XI.99	210	0	210	0	93	59	152	0	-58	0
XII.99	288	0	288	0	69	41	110	0	-178	0
1999	**1452**	**247**	**1699**	**0**	**510**	**n.a.**	**685**	**0**	**-1014**	**0**
I.03	303	46	349	0	74	165	239	0	-110	0
II.03	180	59	239	0	72	126	198	0	-41	0
III.03	239	59	298	0	69	113	182	0	-116	0
IV.03	244	72	316	0	97	62	159	0	-157	0
V.03	125	136	261	0	96	58	154	0	-107	0
VI.03	136	107	243	0	46	101	147	0	-96	0
VII.03	98	84	182	0	56	93	149	0	-33	0
VIII.03	74	71	145	0	63	113	176	0	31	0
IX.03	72	47	119	0	62	178	240	0	121	0
X.03	113	108	221	0	73	115	188	0	-33	0
XI.03	158	138	296	0	19	71	90	0	-206	0
XII.03	219	127	346	0	65	95	160	0	-186	0
2003	**1961**	**1054**	**3015**	**0**	**792**	**1290**	**2082**	**0**	**-933**	**0**
I.04	235	140	375	0	82	80	162	0	-213	0
II.04	201	167	368	0	60	58	118	0	-250	0
III.04	226	207	433	0	104	65	169	0	-264	0
IV.04	171	144	315	0	88	88	176	0	-139	0
V.04	142	162	304	0	93	61	154	0	-150	0
VI.04	131	92	223	0	67	42	109	0	-114	0
VII.04	76	97	173	0	61	61	122	0	-51	0
VIII.04	47	118	165	0	15	91	106	0	-59	0
IX.04	11	193	204	0	14	76	90	0	-114	0
X.04	111	242	353	0	31	102	133	0	-220	0
XI.04	74	222	296	0	48	125	173	0	-123	0
XII.04	74	315	389	0	68	70	138	0	-251	0
2004	**1499**	**2099**	**3598**	**0**	**731**	**919**	**1650**	**0**	**-1948**	**0**

[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 conventional net production	GWh	Σ	1999	n.a
			2003	6653
			2004	6621
Thermal nuclear net production	GWh	Σ	1999	n.a
			2003	0
			2004	0
Hydraulic net production	GWh	Σ	1999	n.a
			2003	4501
			2004	5979
Total net electrical energy production	GWh	Σ	1999	n.a.
			2003	11154
			2004	12600
Total physical import / export balance [1]	GWh	Σ	1999	n.a
			2003	1355
			2004	-2084
Consumption of pumps	GWh	Σ	1999	n.a
			2003	0
			2004	0
National electrical consumption	GWh	Σ	1999	n.a
			2003	12509
			2004	10516
National electrical consumption as percentage of total values	%	∅ pond.	1999	n.a
			2003	99
			2004	99
Energy capability factor (hydro power)		∅ pond.	1999	n.a.
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	n.a.
			2004	1103
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	n.a.
			2004	1640
Peak load on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	n.a.
			2004	1803
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	n.a.
			2003	n.a.
			2004	2047

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

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.
514	481	556	517	444	601	556	563	455	610	608	748
738	643	432	211	249	395	572	675	740	688	669	609
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.
606	506	470	449	406	228	231	192	176	291	488	458
502	536	779	760	692	486	273	205	195	404	439	708
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1120	987	1026	966	850	829	787	755	631	901	1096	1206
1240	1179	1211	971	941	881	845	880	935	1092	1108	1317
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
120	51	125	166	121	106	52	15	113	56	219	211
-239	-268	-281	-151	-159	-119	-50	-78	-148	-152	-167	-272
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.
1240	1038	1151	1132	971	935	839	770	744	957	1315	1417
1001	911	930	820	782	762	795	802	787	940	941	1045
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
99	99	99	99	99	99	99	99	99	99	99	99
99	99	99	99	99	99	99	99	99	99	99	99
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1113	1092	969	811	742	791	761	794	786	822	928	1007
982	1058	894	862	758	792	835	828	828	894	1029	**1103**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1595	1629	1382	1220	1175	1123	1146	1159	1152	1313	1352	1477
1474	1504	1282	1292	1208	1162	1236	1259	1202	1308	1486	**1640**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1739	1745	1542	1396	1251	1202	1252	1233	1348	1477	1567	1681
1628	1657	1500	1447	1358	1287	1281	1406	1407	1528	1700	**1803**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1845	1570	1643	1521	1525	1136	1252	1053	969	1237	1725	1801
2047	1763	1748	1416	1429	1165	1343	1438	1371	1738	1778	1935

Belgium

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	32626
			2003	34405
			2004	34925
Thermal nuclear net production	GWh	Σ	1999	46660
			2003	45072
			2004	44901
Hydraulic net production	GWh	Σ	1999	1482
			2003	1316
			2004	1562
Total net electrical energy production	GWh	Σ	1999 [2]	80768
			2003 [2]	80793
			2004 [2]	81388
Total physical import / export balance [1]	GWh	Σ	1999	849
			2003	6309
			2004	7779
Consumption of pumps	GWh	Σ	1999	1517
			2003	1421
			2004	1695
National electrical consumption	GWh	Σ	1999	80100
			2003	85681
			2004	87472
National electrical consumption as percentage of total values	%∅	pond.	1999	100
			2003	99
			2004	99
Energy capability factor (hydro power)	∅	pond.	1999	-
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	9709
			2003	10500
			2004	10266
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	11953
			2003	12278
			2004	12420
Peak load on the 3rd Wednesday	MW	max.	1999	12617
			2003	12824
			2004	13325
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	12090
			2003	11195
			2004	11417

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
2975	3032	3008	2836	2190	2282	2152	2157	2652	2759	3272	3311
2974	2884	3134	2802	2694	2494	2924	2739	2738	2943	3115	2964
3023	3000	3252	2815	2817	2634	2657	2626	2929	3089	2972	3111
4294	3857	4246	3614	3976	3716	3593	3597	3334	4063	4090	4280
4330	3880	3565	3569	3444	3590	3387	3820	3762	3985	3460	4280
4315	3543	3649	3483	3687	3705	4000	3588	3365	3437	3875	4254
138	131	130	133	125	122	118	117	99	115	119	135
145	132	135	121	130	97	78	102	49	96	102	129
156	146	135	136	90	78	126	134	130	128	143	160
7407	7020	7384	6583	6291	6120	5863	5871	6085	6937	7481	7726
7449	6896	6834	6492	6268	6181	6389	6661	6549	7024	6677	7373
7494	6689	7036	6434	6594	6417	6783	6348	6424	6654	6990	7525
-117	-157	-148	27	54	206	148	345	400	227	-112	-24
816	613	740	579	667	466	159	-96	282	637	865	581
757	936	890	756	385	456	-90	497	732	976	788	696
119	108	108	116	133	140	138	145	119	129	132	130
130	118	126	135	137	109	94	130	58	119	127	138
152	134	138	144	88	93	156	157	153	154	162	164
7171	6755	7128	6494	6212	6186	5873	6071	6366	7035	7237	7572
8135	7391	7448	6936	6798	6538	6454	6435	6773	7542	7415	7816
8099	7491	7788	7046	6891	6780	6537	6688	7003	7476	7616	8057
100	100	100	100	100	100	100	100	100	100	100	100
99	100	99	99	99	99	99	99	99	99	99	99
99	99	99	99	99	99	99	99	99	99	99	99
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
8688	9355	8164	8143	7602	7508	6516	7415	7645	8640	9537	**9709**
9868	**10500**	8980	7985	8095	7893	7758	7832	7943	8586	8828	9597
10009	9834	8613	8566	7985	8142	7218	7896	8184	8397	9252	**10266**
10931	11242	10592	10305	10245	10268	7070	10241	10487	11343	11388	**11953**
12278	12265	11220	10676	10912	10730	10063	10507	10744	11330	11543	11873
12312	11859	11164	11174	10773	10704	8048	10918	11066	11617	11687	**12420**
11513	11691	10853	10696	10560	10592	7542	10682	10870	11609	12349	**12617**
12824	12413	11321	10902	11137	10954	10294	10727	10965	11455	12359	12780
12890	12306	11230	11366	11049	10961	8416	11270	11302	11687	12505	**13325**
10494	11443	10879	10546	10241	9849	6969	9939	9862	11292	11953	**12090**
10700	10414	9679	9717	9427	10035	9915	10283	9866	10322	9831	**11195**
11417	10517	10075	9955	9706	9894	9039	9509	9614	9872	10355	11314

Physical exchanges in interconnected operation [1]

MM_YY	BE→FR	BE→LU	BE→NL	BE_UCTE_EXP	BE_III_EXP	FR→BE	LU→BE	NL→BE	BE_UCTE_IMP	BE_III_IMP	BE_UCTE_SLD	BE_III_SLD
	Export (-)					Import (+)					Balance	
I.99	336	167	197	700	0	163	0	407	570	0	-130	0
II.99	233	166	263	662	0	203	0	290	493	0	-169	0
III.99	190	178	381	749	0	271	0	318	589	0	-160	0
IV.99	23	163	459	645	0	359	0	293	652	0	7	0
V.99	31	154	475	660	0	431	0	272	703	0	43	0
VI.99	24	164	395	583	0	505	0	274	779	0	196	0
VII.99	7	178	532	717	0	694	0	163	857	0	140	0
VIII.99	0	109	707	816	0	1018	0	134	1152	0	336	0
IX.99	0	162	511	673	0	916	0	149	1065	0	392	0
X.99	10	179	419	608	0	589	0	235	824	0	216	0
XI.99	84	181	477	742	0	344	0	274	618	0	-124	0
XII.99	72	145	432	649	0	337	0	279	616	0	-33	0
1999	**1010**	**1946**	**5248**	**8204**	**0**	**5830**	**0**	**3088**	**8918**	**0**	**714**	**0**
I.03	50	135	448	633	0	868	176	406	1450	0	817	0
II.03	63	123	496	682	0	844	202	249	1295	0	613	0
III.03	41	167	462	670	0	1022	88	301	1411	0	741	0
IV.03	63	142	408	613	0	763	162	269	1194	0	581	0
V.03	56	128	443	627	0	843	213	239	1295	0	668	0
VI.03	85	124	742	951	0	1059	193	167	1419	0	468	0
VII.03	52	154	685	891	0	845	73	133	1051	0	160	0
VIII.03	52	100	702	854	0	619	33	104	756	0	-98	0
IX.03	126	120	508	754	0	651	188	198	1037	0	283	0
X.03	135	139	226	500	0	484	218	435	1137	0	637	0
XI.03	37	148	358	543	0	875	232	302	1409	0	866	0
XII.03	112	122	301	535	0	527	181	409	1117	0	582	0
2003	**872**	**1602**	**5779**	**8253**	**0**	**9400**	**1959**	**3212**	**14571**	**0**	**6318**	**0**
I.04	130	110	374	614	0	728	229	406	1363	0	749	0
II.04	134	140	131	405	0	518	215	602	1335	0	930	0
III.04	144	153	134	431	0	505	213	598	1316	0	885	0
IV.04	124	122	239	485	0	561	195	480	1236	0	751	0
V.04	48	152	372	572	0	624	109	219	952	0	380	0
VI.04	31	139	625	795	0	870	196	180	1246	0	451	0
VII.04	144	148	527	819	0	352	204	171	727	0	-92	0
VIII.04	78	98	585	761	0	856	215	186	1257	0	496	0
IX.04	99	135	285	519	0	623	226	398	1247	0	728	0
X.04	23	150	251	424	0	802	222	351	1375	0	951	0
XI.04	91	105	352	548	0	683	192	461	1336	0	788	0
XII.04	133	120	178	431	0	475	166	581	1222	0	791	0
2004	**1179**	**1572**	**4053**	**6804**	**0**	**7597**	**2382**	**4633**	**14612**	**0**	**7808**	**0**

[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→CS	BG→GR	BG→RO	BG→TR	BG_UCTE_EXP	BG_III_EXP	CS→BG	GR→BG	RO→BG	TR→BG	BG_UCTE_IMP	BG_III_IMP	BG_UCTE_SLD	BG_III_SLD
	Export (-)						Import (+)						Balance	
I.99	150	8	n.a.	n.a.	158	n.a.	0	49	n.a.	n.a.	49	n.a.	-109	n.a.
II.99	95	23	n.a.	n.a.	118	n.a.	0	34	n.a.	n.a.	34	n.a.	-84	n.a.
III.99	21	32	n.a.	n.a.	53	n.a.	31	10	n.a.	n.a.	41	n.a.	-12	n.a.
IV.99	10	69	n.a.	n.a.	79	n.a.	83	6	n.a.	n.a.	89	n.a.	10	n.a.
V.99	19	152	n.a.	n.a.	171	n.a.	78	1	n.a.	n.a.	79	n.a.	-92	n.a.
VI.99	27	174	n.a.	n.a.	201	n.a.	6	1	n.a.	n.a.	7	n.a.	-194	n.a.
VII.99	12	196	n.a.	n.a.	208	n.a.	129	0	n.a.	n.a.	129	n.a.	-79	n.a.
VIII.99	17	210	n.a.	n.a.	227	n.a.	138	1	n.a.	n.a.	139	n.a.	-88	n.a.
IX.99	26	165	n.a.	n.a.	191	n.a.	114	1	n.a.	n.a.	115	n.a.	-76	n.a.
X.99	19	55	n.a.	n.a.	74	n.a.	57	15	n.a.	n.a.	72	n.a.	-2	n.a.
XI.99	59	16	n.a.	n.a.	75	n.a.	12	66	n.a.	n.a.	78	n.a.	3	n.a.
XII.99	87	28	n.a.	n.a.	115	n.a.	16	60	n.a.	n.a.	76	n.a.	-39	n.a.
1999	**542**	**1128**	**n.a.**	**n.a.**	**1670**	**n.a.**	**664**	**244**	**n.a.**	**n.a.**	**908**	**n.a.**	**-762**	**n.a.**
I.03	99	157	5	315	261	315	1	0	177	0	178	0	-83	-315
II.03	64	129	4	234	197	234	1	0	175	0	176	0	-21	-234
III.03	57	204	7	380	268	380	3	0	181	0	184	0	-84	-380
IV.03	45	166	4	207	215	207	16	0	158	0	174	0	-41	-207
V.03	16	281	13	0	310	0	32	0	193	0	225	0	-85	0
VI.03	13	289	55	0	357	0	36	0	28	0	64	0	-293	0
VII.03	195	399	40	0	634	0	2	0	81	0	83	0	-551	0
VIII.03	199	389	97	0	685	0	0	0	47	0	47	0	-638	0
IX.03	223	358	191	0	772	0	0	0	20	0	20	0	-752	0
X.03	216	233	122	0	571	0	0	0	5	0	5	0	-566	0
XI.03	226	315	102	0	643	0	0	1	77	0	78	0	-565	0
XII.03	283	382	49	0	714	0	0	0	51	0	51	0	-663	0
2003	**1636**	**3302**	**689**	**1136**	**5627**	**1136**	**91**	**1**	**1193**	**0**	**1285**	**0**	**-4342**	**-1136**
I.04	285	365	48	0	698	0	0	0	51	0	51	0	-647	0
II.04	205	335	36	0	576	0	0	0	62	0	62	0	-514	0
III.04	115	277	66	0	458	0	1	0	17	0	18	0	-440	0
IV.04	149	100	111	0	360	0	2	0	8	0	10	0	-350	0
V.04	107	189	99	0	395	0	3	0	27	0	30	0	-365	0
VI.04	64	266	113	0	443	0	2	0	65	0	67	0	-376	0
VII.04	111	323	89	0	523	0	0	1	94	0	95	0	-428	0
VIII.04	142	363	111	0	616	0	0	0	55	0	55	0	-561	0
IX.04	144	363	144	0	651	0	0	0	92	0	92	0	-559	0
X.04	200	341	44	0	585	0	0	0	92	0	92	0	-493	0
XI.04	241	348	69	0	658	0	0	0	128	0	128	0	-530	0
XII.04	238	363	59	0	660	0	0	0	41	0	41	0	-619	0
2004	**2001**	**3633**	**989**	**0**	**6623**	**0**	**8**	**1**	**732**	**0**	**741**	**0**	**-5882**	**0**

[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 conventional net production	GWh	Σ	1999	n.a.
			2003	22195
			2004	21238
Thermal nuclear net production	GWh	Σ	1999	n.a.
			2003	17257
			2004	16641
Hydraulic net production	GWh	Σ	1999	n.a.
			2003	3262
			2004	3257
Total net electrical energy production	GWh	Σ	1999	n.a.
			2003 [2]	42714
			2004 [2]	41136
Total physical import / export balance [1]	GWh	Σ	1999	n.a.
			2003	-5538
			2004	-5846
Consumption of pumps	GWh	Σ	1999	n.a.
			2003	482
			2004	273
National electrical consumption	GWh	Σ	1999	n.a.
			2003	36694
			2004	35017
National electrical consumption as percentage of total values	%	∅ pond.	1999	n.a.
			2003	100
			2004	100
Energy capability factor (hydro power)		∅ pond.	1999	n.a.
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	5325
			2004	4707
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	6058
			2004	5432
Peak load on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	6595
			2004	5949
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	n.a.
			2003	6626
			2004	6371

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

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.
2063	1957	2021	1647	1043	1107	1604	1612	1988	2207	2442	2504
2017	1972	1902	1497	1526	1499	1527	1764	1846	1739	2090	1859
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1891	1732	1860	1379	1098	1223	1293	1382	1135	1188	1203	1873
1933	1710	1539	1263	1137	837	1175	1098	1052	1377	1420	2100
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
403	373	271	265	362	326	214	206	177	199	215	251
290	310	284	270	258	490	284	247	186	156	209	273
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4357	4062	4152	3291	2503	2656	3111	3200	3300	3594	3860	4628
4240	3992	3725	3030	2921	2826	2986	3109	3084	3272	3719	4232
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-402	-258	-470	-252	-87	-295	-557	-643	-756	-575	-575	-668
-576	-517	-442	-351	-367	-378	-432	-566	-564	-495	-534	-624
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
56	34	39	39	41	19	30	39	45	51	46	43
31	18	14	17	25	8	17	16	24	34	25	44
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3899	3770	3643	3000	2375	2342	2524	2518	2499	2968	3239	3917
3633	3457	3269	2662	2529	2440	2537	2527	2496	2743	3160	3564
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5325	5321	4608	3740	2876	2893	3019	3006	3106	3248	4046	4678
4439	**4707**	4031	3349	3190	2975	3066	2993	3012	3185	3826	4531
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5789	**6058**	5024	4170	3354	3492	3522	3613	3620	4041	4572	5327
5294	5253	4354	3893	3680	3587	3619	3505	3590	3848	4840	**5432**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6226	**6595**	5817	4718	3851	3972	3927	3943	4375	4944	5285	5999
5835	5828	5135	4378	4162	4012	3937	3981	4290	4615	5390	**5949**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6491	**6626**	5782	4634	3573	3879	4275	4600	4633	4685	5442	6268
6243	5956	5001	4261	4099	4152	4136	4324	4481	4697	5733	**6371**

Switzerland

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	2554
			2003	2890
			2004	2974
Thermal nuclear net production	GWh	Σ	1999	23523
			2003	25931
			2004	25432
Hydraulic net production	GWh	Σ	1999	40616
			2003	36445
			2004	35117
Total net electrical energy production	GWh	Σ	1999	66693
			2003 [2]	65266
			2004 [2]	63523
Total physical import / export balance [1]	GWh	Σ	1999	-10229
			2003	-3112
			2004	-703
Consumption of pumps	GWh	Σ	1999	1408
			2003	2893
			2004	2433
National electrical consumption	GWh	Σ	1999	55056
			2003	59261
			2004	60387
National electrical consumption as percentage of total values	%∅	pond.	1999	100
			2003	100
			2004	100
Energy capability factor (hydro power)	∅	pond.	1999	1,20
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	7093
			2003	7786
			2004	7491
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	8958
			2003	9468
			2004	9431
Peak load on the 3rd Wednesday	MW	max.	1999	9099
			2003	9494
			2004	9548
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	12372
			2003	11830
			2004	12228

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
248	230	225	210	191	168	157	177	235	233	238	242
275	255	262	245	227	226	241	224	228	218	242	247
270	261	269	236	237	238	235	224	235	244	250	275
2279	2107	2180	2035	2215	1860	1168	1062	1816	2170	2276	2355
2390	2167	2392	2313	2269	1647	2190	1193	2251	2400	2327	2392
2413	2252	2401	2316	2249	1554	2212	1331	1652	2311	2329	2412
2300	2499	2570	2535	3842	4263	4446	4412	3946	3681	3276	2846
3195	3028	2388	2376	3682	4312	4079	3986	2632	2605	2080	2082
2426	2102	2585	2093	3126	4034	4003	3753	3167	2622	2751	2455
4827	4836	4975	4780	6248	6291	5771	5651	5997	6084	5790	5443
5860	5450	5042	4934	6178	6185	6510	5403	5111	5223	4649	4721
5109	4615	5255	4645	5612	5826	6450	5308	5054	5177	5330	5142
406	181	97	-238	-1907	-2040	-1629	-1419	-1584	-1391	-651	-54
-3	70	394	-1	-1413	-1300	-1760	-607	-300	42	735	1031
786	808	354	251	-720	-984	-1641	-460	-174	63	211	803
44	21	34	95	194	252	222	215	131	82	35	83
135	139	219	204	306	383	317	361	257	159	184	229
122	90	69	120	246	308	363	338	235	216	158	168
5189	4996	5038	4447	4147	3999	3920	4017	4282	4611	5104	5306
5722	5381	5217	4729	4459	4502	4433	4435	4554	5106	5200	5523
5773	5333	5540	4776	4646	4534	4446	4510	4645	5024	5383	5777
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
0,97	1,17	1,22	1,12	1,54	1,14	1,00	1,17	1,28	1,39	1,31	1,21
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
6834	**7093**	6005	5619	4822	4809	4490	4729	4981	5941	6571	7011
7228	**7786**	6478	5521	5277	5496	5155	4974	5203	5662	6174	7344
7351	7035	6424	5892	5352	5295	5003	5057	5327	6065	7193	**7491**
8522	8867	8223	8195	7565	7726	7086	7772	7958	8316	8627	**8958**
9209	**9468**	8290	8190	8278	8195	7780	7994	8105	8296	8803	9025
9336	9037	8555	8187	8083	8490	7849	8276	8493	8734	9089	**9431**
8803	9050	8409	8335	7852	7853	7110	7982	8240	8490	9013	**9099**
9369	**9494**	8290	8190	8278	8195	7780	7994	8105	8296	8803	9179
9342	9043	8555	8187	8083	8490	7849	8276	8493	8734	9089	**9548**
10291	10993	9291	9269	10867	11470	10372	10387	12115	12137	11779	**12372**
10992	**11830**	9557	9991	11740	11280	11495	10280	9933	9770	8807	9087
9497	9573	9529	9156	10582	11040	**12228**	10173	10353	9384	9089	10689

Physical exchanges in interconnected operation [1]

Switzerland | GWh

MM_YY	CH→AT	CH→DE	CH→FR	CH→IT	CH_UCTE_EXP	CH_III_EXP	AT→CH	DE→CH	FR→CH	IT→CH	CH_UCTE_IMP	CH_III_IMP	CH_UCTE_SLD	CH_III_SLD
	Export (-)						Import (+)						Balance	
I.99	1	343	121	1784	2249	0	400	1250	1087	0	2737	0	488	0
II.99	6	413	170	1565	2154	0	278	1010	1079	0	2367	0	213	0
III.99	2	446	105	1742	2295	0	324	1031	1106	0	2461	0	166	0
IV.99	8	346	85	1977	2416	0	370	1007	876	0	2253	0	-163	0
V.99	28	714	105	2018	2865	0	200	322	507	7	1036	0	-1829	0
VI.99	16	686	226	1916	2844	0	185	296	433	1	915	0	-1929	0
VII.99	17	321	169	2162	2669	0	200	569	392	1	1162	0	-1507	0
VIII.99	66	509	276	1390	2241	0	145	385	411	1	942	0	-1299	0
IX.99	99	509	411	1852	2871	0	203	531	607	36	1377	0	-1494	0
X.99	69	688	202	1818	2777	0	217	528	722	2	1469	0	-1308	0
XI.99	38	507	174	1717	2436	0	288	756	783	0	1827	0	-609	0
XII.99	25	381	165	1735	2306	0	335	1000	975	0	2310	0	4	0
1999	**375**	**5863**	**2209**	**21676**	**30123**	**0**	**3145**	**8685**	**8978**	**48**	**20856**	**0**	**-9267**	**0**
I.03	8	273	118	2273	2672	0	453	1132	1154	0	2739	0	67	0
II.03	11	252	120	2111	2494	0	330	1110	1167	1	2608	0	114	0
III.03	27	283	46	2328	2684	0	376	1426	1402	9	3213	0	529	0
IV.03	6	324	71	2311	2712	0	431	1322	1065	0	2818	0	106	0
V.03	46	576	49	2046	2717	0	220	456	796	1	1473	0	-1244	0
VI.03	78	247	233	2209	2767	0	226	787	605	0	1618	0	-1149	0
VII.03	90	463	187	2467	3207	0	171	758	631	2	1562	0	-1645	0
VIII.03	37	191	249	1951	2428	0	287	1045	598	1	1931	0	-497	0
IX.03	22	178	91	2217	2508	0	421	1086	776	0	2283	0	-225	0
X.03	10	107	156	2202	2475	0	469	1280	848	0	2597	0	122	0
XI.03	21	109	51	1909	2090	0	273	1394	1293	0	2960	0	870	0
XII.03	15	125	92	1915	2147	0	405	1552	1357	0	3314	0	1167	0
2003	**371**	**3128**	**1463**	**25939**	**30901**	**0**	**4062**	**13348**	**11692**	**14**	**29116**	**0**	**-1785**	**0**
I.04	2	81	126	2044	2253	0	445	1482	1261	0	3188	0	935	0
II.04	0	72	125	1793	1990	0	537	1318	1035	0	2890	0	900	0
III.04	1	172	100	1828	2101	0	518	1067	989	0	2574	0	473	0
IV.04	3	146	82	1608	1839	0	469	831	910	0	2210	0	371	0
V.04	37	473	43	1493	2046	0	276	455	734	1	1466	0	-580	0
VI.04	23	328	286	1451	2088	0	315	449	484	3	1251	0	-837	0
VII.04	101	390	421	1666	2578	0	181	485	452	0	1118	0	-1460	0
VIII.04	59	389	234	1150	1832	0	177	671	655	5	1508	0	-324	0
IX.04	13	258	231	1657	2159	0	311	1035	734	0	2080	0	-79	0
X.04	38	219	227	1550	2034	0	283	1031	892	3	2209	0	175	0
XI.04	31	165	216	1862	2274	0	379	1413	793	2	2587	0	313	0
XII.04	1	93	213	1813	2120	0	528	1593	881	0	3002	0	882	0
2004	**309**	**2786**	**2304**	**19915**	**25314**	**0**	**4419**	**11830**	**9820**	**14**	**26083**	**0**	**769**	**0**

[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 & Montenegro | GWh

MM_YY	CS→BA	CS→BG	CS→HR	CS→HU	CS→MK	CS→RO	CS→AL	CS_UCTE_EXP	CS_III_EXP	BA→CS	BG→CS	HR→CS	HU→CS	MK→CS	RO→CS	AL→CS	CS_UCTE_IMP	CS_III_IMP	CS_UCTE_SLD	CS_III_SLD
	Export (-)									Import (+)									Balance	
I.99	0	0	0	0	n.a.	1	16	0	17	0	150	0	111	n.a.	167	97	111	414	111	397
II.99	0	0	3	0	n.a.	2	23	3	25	0	95	0	100	n.a.	111	41	100	247	97	222
III.99	0	31	0	0	n.a.	43	28	0	102	0	21	0	2	n.a.	3	57	2	81	2	-21
IV.99	0	83	0	0	n.a.	119	13	0	215	0	10	0	0	n.a.	0	47	0	57	0	-158
V.99	80	78	0	0	n.a.	204	17	80	299	171	19	0	33	n.a.	14	28	204	61	124	-238
VI.99	35	6	0	0	n.a.	274	17	35	297	140	27	0	49	n.a.	21	33	189	81	154	-216
VII.99	52	129	0	0	n.a.	102	7	52	238	119	12	0	3	n.a.	2	60	122	74	70	-164
VIII.99	62	138	0	0	n.a.	50	8	62	196	143	17	0	2	n.a.	9	69	145	95	83	-101
IX.99	51	114	0	0	n.a.	61	6	51	181	176	26	0	1	n.a.	27	91	177	144	126	-37
X.99	68	57	0	0	n.a.	41	12	68	110	205	19	0	1	n.a.	26	60	206	105	138	-5
XI.99	93	12	0	0	n.a.	30	3	93	45	210	59	0	30	n.a.	56	12	240	127	147	82
XII.99	69	16	0	0	n.a.	43	8	69	67	288	87	0	111	n.a.	40	36	399	163	330	96
1999	**510**	**664**	**3**	**0**	**n.a.**	**970**	**158**	**513**	**1792**	**1452**	**542**	**0**	**443**	**n.a.**	**476**	**631**	**1895**	**1649**	**1382**	**-143**
I.03	74	1	0	0	118	2	13	195	13	303	99	0	177	0	156	88	735	88	540	75
II.03	72	1	0	0	121	1	4	195	4	180	64	0	183	0	106	100	533	100	338	96
III.03	69	3	0	0	147	7	22	226	22	239	57	0	77	0	79	34	452	34	226	12
IV.03	97	16	0	0	178	9	41	300	41	244	45	0	12	0	56	3	357	3	57	-38
V.03	96	32	0	0	174	5	34	307	34	125	16	0	0	0	100	6	241	6	-66	-28
VI.03	46	36	0	0	167	0	37	249	37	136	13	0	0	0	214	9	363	9	114	-28
VII.03	56	2	8	0	162	0	52	228	52	98	195	0	0	0	176	2	469	2	241	-50
VIII.03	63	0	18	0	122	0	83	203	83	74	199	0	7	0	228	0	508	0	305	-83
IX.03	62	0	16	0	92	3	67	173	67	72	223	0	6	0	126	0	427	0	254	-67
X.03	73	0	21	0	43	2	31	139	31	113	216	0	0	5	98	2	432	2	293	-29
XI.03	19	0	23	0	127	0	34	169	34	158	226	0	0	0	229	5	613	5	444	-29
XII.03	65	0	0	0	173	0	47	238	47	219	283	0	60	0	284	15	846	15	608	-32
2003	**792**	**91**	**86**	**0**	**1624**	**29**	**465**	**2622**	**465**	**1961**	**1636**	**0**	**522**	**5**	**1852**	**264**	**5976**	**264**	**3354**	**-201**
I.04	82	0	32	0	163	0	19	277	19	235	285	0	0	0	254	5	774	5	497	-14
II.04	60	0	26	0	168	0	43	254	43	201	205	0	0	0	186	0	592	0	338	-43
III.04	104	1	25	0	145	0	16	275	16	226	115	0	0	0	139	21	480	21	205	5
IV.04	88	2	20	0	189	2	16	301	16	171	149	0	0	0	109	24	429	24	128	8
V.04	93	3	18	0	181	8	16	303	16	142	107	0	0	0	51	26	300	26	-3	10
VI.04	67	2	19	0	143	5	13	236	13	131	64	0	0	0	69	6	264	6	28	-7
VII.04	61	0	19	0	152	2	13	234	13	76	111	0	2	0	138	1	327	1	93	-12
VIII.04	15	0	11	0	143	0	21	169	21	47	142	0	1	0	171	0	361	0	192	-21
IX.04	14	0	12	0	120	0	40	146	40	11	144	0	1	0	196	0	352	0	206	-40
X.04	31	0	218	0	146	5	69	400	69	111	200	0	83	0	190	0	584	0	184	-69
XI.04	48	0	335	0	128	0	55	511	55	74	241	1	129	0	239	0	684	0	173	-55
XII.04	68	0	305	0	229	0	1	602	1	74	238	0	178	0	272	68	762	68	160	67
2004	**731**	**8**	**1040**	**0**	**1907**	**22**	**322**	**3708**	**322**	**1499**	**2001**	**1**	**394**	**0**	**2014**	**151**	**5909**	**151**	**2201**	**-171**

[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".

Serbia & Montenegro

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	n.a
			2003	25819
			2004	25300
Thermal nuclear net production	GWh	Σ	1999	n.a
			2003	0
			2004	0
Hydraulic net production	GWh	Σ	1999	n.a
			2003	10707
			2004	13365
Total net electrical energy production	GWh	Σ	1999	n.a.
			2003	36526
			2004	38665
Total physical import / export balance [1]	GWh	Σ	1999	n.a
			2003	3148
			2004	1993
Consumption of pumps	GWh	Σ	1999	n.a
			2003	521
			2004	778
National electrical consumption	GWh	Σ	1999	n.a
			2003	39153
			2004	39880
National electrical consumption as percentage of total values	%	∅ pond.	1999	n.a
			2003	96
			2004	96
Energy capability factor (hydro power)		∅ pond.	1999	n.a.
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	5523
			2004	5070
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	6744
			2004	6598
Peak load on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	6979
			2004	6867
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	n.a.
			2003	6075
			2004	6181

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

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.
2107	2299	2377	2124	1796	1723	1888	1970	2130	2247	2328	2830
2870	2470	2179	1570	1471	1458	1850	1990	2075	2320	2497	2550
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.
1545	1327	1213	1068	942	752	549	472	366	780	841	852
1087	1199	1513	1518	1482	1194	834	608	532	775	1093	1530
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3652	3626	3590	3192	2738	2475	2437	2442	2496	3027	3169	3682
3957	3669	3692	3088	2953	2652	2684	2598	2607	3095	3590	4080
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
615	434	240	23	-95	88	190	223	181	264	409	576
482	294	209	135	1	37	68	146	166	114	116	225
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
69	30	45	19	16	12	34	43	66	41	69	77
89	19	113	122	83	20	38	63	44	65	48	74
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4198	4030	3785	3196	2627	2551	2593	2622	2611	3250	3509	4181
4350	3944	3788	3101	2871	2669	2714	2681	2729	3144	3658	4231
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
96	96	96	96	96	96	96	96	96	96	96	96
96	96	96	96	96	96	96	96	96	96	96	96
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5383	5523	4464	3323	2594	2710	2608	2752	2753	3123	4073	4955
4626	**5070**	3848	3348	2950	2723	2893	2761	2797	3256	4378	5013
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6283	**6744**	5537	4783	4042	4042	3999	4074	4138	4970	5213	6251
6245	6211	4792	4834	4485	4110	4138	4141	4235	4705	5631	**6598**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6707	**6979**	6013	5123	4365	4450	4363	4497	4842	5549	5836	6699
6485	6676	5581	5391	5012	4627	4508	4681	4832	5402	6274	**6867**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5045	**6075**	5250	4687	4152	3929	3657	3581	3643	4647	4471	5232
5384	5651	4164	4635	4294	3970	3945	3885	3959	4361	5373	**6181**

Czech Republic

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	44655
			2003	50509
			2004	50567
Thermal nuclear net production	GWh	Σ	1999	12525
			2003	24368
			2004	24817
Hydraulic net production	GWh	Σ	1999	2251
			2003	1787
			2004	2517
Total net electrical energy production	GWh	Σ	1999 [2]	59431
			2003 [2]	76664
			2004 [2]	77901
Total physical import / export balance [1]	GWh	Σ	1999	-3276
			2003	-16218
			2004	-15717
Consumption of pumps	GWh	Σ	1999	716
			2003	553
			2004	733
National electrical consumption	GWh	Σ	1999	55439
			2003	59893
			2004	61451
National electrical consumption as percentage of total values	%	∅ pond.	1999	100
			2003	100
			2004	100
Energy capability factor (hydro power)		∅ pond.	1999	-
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	7710
			2003	8344
			2004	7983
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	8682
			2003	9412
			2004	9500
Peak load on the 3rd Wednesday	MW	max.	1999	8879
			2003	9748
			2004	10097
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	10367
			2003	11444
			2004	11781

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
4157	4005	3852	3426	3258	3068	2919	3010	3277	4121	4669	4893
4947	4757	5118	4462	3549	3347	3273	3866	3653	4475	4622	4440
4715	4543	5000	4163	4393	4078	3341	3384	3675	4116	4516	4643
1245	1127	1187	899	980	960	910	882	894	1081	1201	1159
1964	1524	1406	1635	2242	2209	2493	1717	2192	2198	2200	2588
2666	1972	1765	1775	1333	1288	2302	2561	2146	2249	2309	2451
203	223	311	195	161	158	170	162	164	169	171	164
258	196	224	163	156	94	106	116	104	117	115	138
159	246	272	306	250	269	159	155	149	158	183	211
5605	5355	5350	4520	4399	4186	3999	4054	4335	5371	6041	6216
7169	6477	6748	6260	5947	5650	5872	5699	5949	6790	6937	7166
7540	6761	7037	6244	5976	5635	5802	6100	5970	6523	7008	7305
27	-51	-96	-55	-217	-246	-288	-166	-281	-586	-679	-638
-1054	-818	-1203	-1287	-1561	-1440	-1672	-1437	-1492	-1417	-1459	-1378
-1319	-1118	-1179	-1265	-1194	-1198	-1529	-1684	-1333	-1275	-1311	-1312
34	25	29	36	54	73	83	87	84	77	75	59
49	42	48	46	37	23	29	52	51	53	56	67
68	67	62	60	50	36	51	73	70	69	64	63
5598	5279	5225	4429	4128	3867	3628	3801	3970	4708	5287	5519
6066	5617	5497	4927	4349	4187	4171	4210	4406	5320	5422	5721
6153	5576	5796	4919	4732	4401	4222	4343	4567	5179	5633	5930
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
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
7206	**7710**	6930	6176	5477	5035	4564	4804	5131	6580	7116	7653
7941	**8344**	7152	6585	5698	5483	5417	5345	5623	6529	7091	7653
7819	7479	6882	6272	5987	5560	5337	5326	5716	6650	6701	**7983**
8682	8658	8230	7080	6395	6339	5821	6201	6351	7681	8355	8396
9229	**9412**	7937	7550	7167	6997	7032	6894	7217	7827	8544	8935
9107	8853	7945	7465	7295	7094	6868	7053	7366	8142	7484	**9500**
8862	8708	8310	7191	6605	6633	5948	6318	6520	8120	8879	**8879**
9748	9646	8564	7690	7271	7115	7032	7067	7275	8349	9247	9584
9585	9088	8338	7634	7472	7297	7121	7200	7535	8578	8292	**10097**
9421	9944	9400	8241	7951	8010	7183	7845	8054	9649	**10367**	9978
11043	10632	10059	9777	9410	9407	9318	8587	9256	10056	10954	**11444**
11352	11002	10364	10029	9431	8717	9123	9546	9386	10493	9920	**11781**

Physical exchanges in interconnected operation [1]

Czech Republic | GWh

MM_YY	CZ→AT	CZ→DE	CZ→PL	CZ→SK	CZ_UCTE_EXP	CZ_III_EXP	AT→CZ	DE→CZ	PL→CZ	SK→CZ	CZ_UCTE_IMP	CZ_III_IMP	CZ_UCTE_SLD	CZ_III_SLD
	Export (-)						Import (+)						Balance	
I.99	339	455	3	195	992	0	1	126	795	97	1019	0	27	0
II.99	296	469	6	167	938	0	3	98	678	108	887	0	-51	0
III.99	281	480	9	165	935	0	7	110	596	126	839	0	-96	0
IV.99	240	327	9	204	780	0	11	94	496	124	725	0	-55	0
V.99	216	350	7	134	707	0	17	38	314	121	490	0	-217	0
VI.99	167	462	7	175	811	0	18	34	361	152	565	0	-246	0
VII.99	274	434	5	281	994	0	5	48	456	197	706	0	-288	0
VIII.99	165	326	8	284	783	0	4	5	470	138	617	0	-166	0
IX.99	357	388	13	204	962	0	2	41	494	144	681	0	-281	0
X.99	436	644	7	280	1367	0	0	5	666	110	781	0	-586	0
XI.99	409	786	2	285	1482	0	0	0	710	93	803	0	-679	0
XII.99	456	572	3	479	1510	0	0	13	742	117	872	0	-638	0
1999	**3636**	**5693**	**79**	**2853**	**12261**	**0**	**68**	**612**	**6778**	**1527**	**8985**	**0**	**-3276**	**0**
I.03	452	1231	5	308	1996	0	1	1	856	85	943	0	-1053	0
II.03	391	1008	4	318	1721	0	0	0	812	91	903	0	-818	0
III.03	489	1011	5	524	2029	0	1	2	803	20	826	0	-1203	0
IV.03	636	971	2	514	2123	0	0	4	790	41	835	0	-1288	0
V.03	622	1148	15	353	2138	0	0	0	541	36	577	0	-1561	0
VI.03	692	880	7	431	2010	0	0	0	535	36	571	0	-1439	0
VII.03	742	982	2	787	2513	0	0	3	797	42	842	0	-1671	0
VIII.03	694	867	2	539	2102	0	0	20	594	52	666	0	-1436	0
IX.03	723	1014	2	574	2313	0	0	0	820	1	821	0	-1492	0
X.03	738	1227	7	432	2404	0	0	1	960	25	986	0	-1418	0
XI.03	649	1312	4	489	2454	0	0	0	921	74	995	0	-1459	0
XII.03	800	1143	2	550	2495	0	0	21	1059	38	1118	0	-1377	0
2003	**7628**	**12794**	**57**	**5819**	**26298**	**0**	**2**	**52**	**9488**	**541**	**10083**	**0**	**-16215**	**0**
I.04	661	1164	2	578	2405	0	0	11	1036	39	1086	0	-1319	0
II.04	564	1055	3	554	2176	0	0	4	1012	41	1057	0	-1119	0
III.04	443	1237	2	551	2233	0	1	0	1013	39	1053	0	-1180	0
IV.04	533	1035	6	541	2115	0	0	4	815	31	850	0	-1265	0
V.04	183	1326	6	409	1924	0	0	0	664	65	729	0	-1195	0
VI.04	268	1190	12	235	1705	0	8	1	447	52	508	0	-1197	0
VII.04	482	1069	14	510	2075	0	0	0	510	34	544	0	-1531	0
VIII.04	655	1027	9	580	2271	0	0	0	551	38	589	0	-1682	0
IX.04	588	932	6	593	2119	0	0	42	742	3	787	0	-1332	0
X.04	626	1006	9	558	2199	0	0	6	897	21	924	0	-1275	0
XI.04	541	1081	3	405	2030	0	0	25	641	53	719	0	-1311	0
XII.04	704	994	8	531	2237	0	0	51	826	47	924	0	-1313	0
2004	**6248**	**13116**	**80**	**6045**	**25489**	**0**	**9**	**144**	**9154**	**463**	**9770**	**0**	**-15719**	**0**

[1] These physical energy flows were measured on all cross-frontier transmission lines . 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]

Germany | GWh

MM_YY	DE→AT	DE→CH	DE→CZ	DE→FR	DE→LU	DE→NL	DE→PL	DE→DK_W	DE→DK[2]	DE→SE	DE_UCTE_EXP	DE_III_EXP	AT→DE	CH→DE	CZ→DE	FR→DE	LU→DE	NL→DE	PL→DE	DK_W→DE	DK[2]→DE	SE→DE	DE_UCTE_IMP	DE_III_IMP	DE_UCTE_SLD	DE_III_SLD
MM_YY	Export (-)												Import (+)												Balance	
I.99	631	1250	126	12	361	1456	148	n.a.	18	18	3984	36	289	343	455	993	49	28	50	n.a.	536	112	2207	648	-1777	612
II.99	551	1010	98	0	326	1171	142	n.a.	21	20	3298	41	299	413	469	1050	45	18	30	n.a.	550	131	2324	681	-974	640
III.99	669	1031	110	0	342	1304	75	n.a.	0	1	3531	1	343	446	480	1221	41	17	20	n.a.	550	126	2568	676	-963	675
IV.99	662	1007	94	0	343	1400	193	n.a.	2	1	3699	3	265	346	327	1422	42	18	23	n.a.	441	140	2443	581	-1256	578
V.99	300	322	38	8	328	1648	156	n.a.	12	0	2800	12	580	714	350	1030	49	80	20	n.a.	371	152	2823	523	23	511
VI.99	286	296	34	28	334	1577	115	n.a.	24	0	2670	24	672	686	462	914	54	103	24	n.a.	300	136	2915	436	245	412
VII.99	211	569	48	5	330	1423	188	n.a.	45	0	2774	45	676	321	434	1222	43	101	17	n.a.	278	131	2814	409	40	364
VIII.99	178	385	5	1	321	1276	209	n.a.	203	15	2375	218	549	509	326	1571	53	151	24	n.a.	252	43	3183	295	808	77
IX.99	273	531	41	3	357	1451	186	n.a.	145	10	2842	155	519	509	388	1375	60	57	30	n.a.	237	65	2938	302	96	147
X.99	299	528	5	38	390	1598	201	n.a.	73	32	3059	105	489	688	644	1199	71	24	36	n.a.	474	94	3151	568	92	463
XI.99	586	756	0	42	400	1409	113	n.a.	13	2	3306	15	380	507	786	909	78	34	81	n.a.	676	142	2775	818	-531	803
XII.99	864	1000	13	85	397	1445	228	n.a.	42	1	4032	43	282	381	572	865	72	34	13	n.a.	454	15	2219	469	-1813	426
1999	**5510**	**8685**	**612**	**222**	**4229**	**17158**	**1954**	**n.a.**	**598**	**100**	**38370**	**698**	**5343**	**5863**	**5693**	**13771**	**657**	**665**	**368**	**n.a.**	**5119**	**1287**	**32360**	**6406**	**-6010**	**5708**
I.03	832	1132	1	4	433	1453	236	n.a.	385	285	4091	670	431	273	1231	1660	71	91	34	n.a.	102	5	3791	107	-300	-563
II.03	706	1110	0	0	388	899	169	n.a.	486	228	3272	714	297	252	1008	1824	55	101	43	n.a.	181	2	3580	183	308	-531
III.03	1047	1426	2	0	395	1178	196	n.a.	577	251	4244	828	265	283	1011	1974	52	13	47	n.a.	179	1	3645	180	-599	-648
IV.03	934	1322	4	2	388	1235	286	n.a.	489	223	4171	712	191	324	971	1620	59	20	17	n.a.	251	17	3202	268	-969	-444
V.03	466	456	0	0	396	1308	179	n.a.	687	233	2805	920	391	576	1148	1844	65	16	16	n.a.	224	25	4056	249	1251	-671
VI.03	515	787	0	1	395	1056	238	n.a.	437	150	2992	587	383	247	880	1812	67	63	31	n.a.	412	93	3483	505	491	-82
VII.03	560	758	3	86	421	698	227	n.a.	387	137	2753	524	352	463	982	1722	77	174	31	n.a.	518	107	3801	625	1048	101
VIII.03	833	1045	20	22	401	856	246	n.a.	523	184	3423	707	223	191	867	1684	78	66	8	n.a.	352	68	3117	420	-306	-287
IX.03	980	1086	0	4	408	1048	207	n.a.	357	88	3733	445	147	178	1014	1396	70	32	7	n.a.	316	19	2844	335	-889	-110
X.03	914	1280	1	32	445	1836	189	n.a.	358	140	4697	498	237	107	1227	903	79	4	32	n.a.	525	71	2589	596	-2108	98
XI.03	870	1394	0	0	444	1652	191	n.a.	401	165	4551	566	221	109	1312	1877	81	3	16	n.a.	457	57	3619	514	-932	-52
XII.03	1249	1552	21	1	442	1819	397	n.a.	282	157	5481	439	195	125	1143	1911	80	18	3	n.a.	482	92	3475	574	-2006	135
2003	**9906**	**13348**	**52**	**152**	**4956**	**15038**	**2761**	**n.a.**	**5369**	**2241**	**46213**	**7610**	**3333**	**3128**	**12794**	**20227**	**834**	**601**	**285**	**n.a.**	**3999**	**557**	**41202**	**4556**	**-5011**	**-3054**
I.04	1296	1482	11	5	433	1611	338	109	184	133	5176	426	254	81	1164	1519	71	6	6	394	146	108	3101	648	-2075	222
II.04	1152	1318	4	79	395	1833	346	134	147	123	5127	404	297	72	1055	746	55	1	2	343	152	83	2228	578	-2899	174
III.04	1000	1067	0	91	420	1883	238	96	128	122	4699	346	326	172	1237	603	54	15	44	461	196	104	2451	761	-2248	415
IV.04	757	831	4	79	398	1737	149	218	169	144	3955	531	324	146	1035	845	64	3	87	251	110	65	2504	426	-1451	-105
V.04	407	455	0	14	397	1217	221	286	27	148	2711	461	401	473	1326	1494	60	22	11	261	0	119	3787	380	1076	-81
VI.04	296	449	1	62	396	1054	76	337	61	175	2334	573	542	328	1190	1416	61	97	114	212	6	82	3748	300	1414	-273
VII.04	256	485	0	27	412	865	147	161	74	101	2192	336	674	390	1069	1493	61	81	80	196	166	117	3848	479	1656	143
VIII.04	328	671	0	6	385	927	185	304	103	169	2502	576	427	389	1027	1672	60	197	36	167	5	60	3808	232	1306	-344
IX.04	568	1035	42	4	409	1165	271	182	0	94	3494	276	333	258	932	1443	65	108	27	346	0	147	3166	493	-328	217
X.04	730	1031	6	4	422	1516	363	171	43	81	4072	295	288	219	1006	1453	64	16	3	445	101	161	3049	707	-1023	412
XI.04	892	1413	25	7	420	1548	324	148	103	50	4629	301	292	165	1081	1544	63	12	32	415	189	63	3189	667	-1440	366
XII.04	1240	1593	51	18	441	2001	500	67	86	106	5844	259	307	93	994	1254	73	0	8	551	223	161	2729	935	-3115	676
2004	**8922**	**11830**	**144**	**396**	**4928**	**17357**	**3158**	**2213**	**1125**	**1446**	**46735**	**4784**	**4465**	**2786**	**13116**	**15482**	**751**	**558**	**450**	**4042**	**1294**	**1270**	**37608**	**6606**	**-9127**	**1822**

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

[2] Physical exchanges year 1999 and 2003 as sum Denmark, year 2004 exchanges with Denmark East

Germany

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	303877
			2003	350546
			2004	387479
Thermal nuclear net production	GWh	Σ	1999	159595
			2003	155416
			2004	158380
Hydraulic net production	GWh	Σ	1999	21118
			2003	20388
			2004	23430
Total net electrical energy production	GWh	Σ	1999 [2]	484590
			2003 [2]	526350
			2004 [2]	569289
Total physical import / export balance [1]	GWh	Σ	1999	966
			2003	-8069
			2004	-7306
Consumption of pumps	GWh	Σ	1999	5015
			2003	7834
			2004	9310
National electrical consumption	GWh	Σ	1999	480541
			2003	510447
			2004	552673
National electrical consumption as percentage of total values	%	∅ pond.	1999	93
			2003	94
			2004	100
Energy capability factor (hydro power)		∅ pond.	1999	1,11
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	53010
			2003	57000
			2004	56300
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	72462
			2003	71300
			2004	72500
Peak load on the 3rd Wednesday	MW	max.	1999	74267
			2003	73500
			2004	74300
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	79300
			2003	78400
			2004	79700

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
29357	28235	28511	24121	22644	21195	22170	21569	22396	25979	28071	29629
33893	31433	30751	28787	26781	25060	26102	26348	27652	30633	30833	32273
36514	34971	36416	30216	29133	28464	28437	28649	30789	32689	34640	36561
14224	12346	13358	12975	12066	12643	12358	12684	14026	13485	14201	15229
14028	12732	13871	12608	11535	11832	11563	12397	12998	14025	13819	14008
15193	13933	13973	13927	11830	11195	11904	11461	11384	13706	14587	15287
1523	1453	1943	2063	2029	2041	1986	1709	1477	1611	1521	1762
2301	1753	1940	1748	2032	1652	1580	1495	1349	1800	1345	1393
1877	1818	1851	1974	2100	2270	2202	2012	1814	1919	1833	1760
45104	42034	43812	39159	36739	35879	36514	35962	37899	41075	43793	46620
50222	45918	46562	43143	40348	38544	39245	40240	41999	46458	45997	47674
53584	50722	52240	46117	43063	41929	42543	42122	43987	48314	51060	53608
-1150	-298	-264	-545	583	714	463	957	294	580	328	-696
-863	-223	-1247	-1414	580	409	1149	-593	-999	-2010	-985	-1873
-1853	-2725	-1833	-1556	995	1141	1799	962	-111	-611	-1075	-2439
345	302	356	396	463	492	416	407	420	426	492	500
591	545	645	580	597	649	783	749	683	670	636	706
714	685	713	690	767	751	807	850	816	820	826	871
43609	41434	43192	38218	36859	36101	36561	36512	37773	41229	43629	45424
48768	45150	44670	41149	40331	38304	39611	38898	40317	43778	44376	45095
51017	47312	49694	43871	43291	42319	43535	42234	43060	46883	49159	50298
93	93	93	93	93	93	93	93	93	93	93	93
94	94	94	94	94	94	94	94	94	94	94	94
100	100	100	100	100	100	100	100	100	100	100	100
1,15	1,11	1,28	1,20	1,03	1,05	1,10	0,97	0,96	1,13	1,11	1,30
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
48925	52582	49525	44358	39517	39880	39195	37198	40024	45988	**53010**	51928
49900	**57000**	50300	42400	41200	42700	44800	41300	42600	46700	44800	51700
55200	49200	44700	44300	43700	39800	40700	40400	39400	47900	49000	**56300**
68116	69131	67424	67935	63672	65129	60656	60898	63660	67357	71474	**72462**
70900	**71300**	68600	66900	68200	66200	66400	64200	67500	68100	70100	70200
70700	70500	66700	67900	67000	66500	67200	64800	67800	69900	72300	**72500**
69736	71056	69745	68398	64644	66102	62086	61075	64389	67493	72494	**74267**
72700	71900	69800	66900	69900	67600	67300	65700	69000	69300	72600	**73500**
72900	72600	68900	68700	67900	68400	68600	65800	68500	71300	73400	**74300**
74700	74700	72600	71300	68100	67400	65700	64600	69100	72200	76000	**79300**
77900	**78400**	75400	73500	74900	72700	73000	70500	74200	74800	77000	77100
77700	77500	73300	74600	73600	73100	73800	71200	74500	76800	79500	**79700**

Spain

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	98298
			2003	126819
			2004	148384
Thermal nuclear net production	GWh	Σ	1999	56379
			2003	59220
			2004	60876
Hydraulic net production	GWh	Σ	1999	27645
			2003	43226
			2004	33782
Total net electrical energy production	GWh	Σ	1999 [2]	182322
			2003 [2]	229265
			2004 [2]	243042
Total physical import / export balance [1]	GWh	Σ	1999	5720
			2003	1264
			2004	-3028
Consumption of pumps	GWh	Σ	1999	3668
			2003	4678
			2004	4604
National electrical consumption	GWh	Σ	1999	184374
			2003	225851
			2004	235410
National electrical consumption as percentage of total values	%	∅ pond.	1999	94
			2003	94
			2004	94
Energy capability factor (hydro power)		∅ pond.	1999	0,68
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	19384
			2003	24837
			2004	25041
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	26983
			2003	34991
			2004	34543
Peak load on the 3rd Wednesday	MW	max.	1999	30115
			2003	37163
			2004	37196
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	27169
			2003	34452
			2004	36690

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
9453	9391	8948	7662	6244	7484	9140	7531	8614	7828	7596	8407
9198	9491	9029	8535	9198	11815	12577	11978	12396	12264	10436	9902
11542	11351	12805	10826	10759	11951	13398	12406	13209	13323	12861	13953
5175	3935	4011	3517	4881	4517	4678	5216	4712	5076	5279	5382
5509	4936	4672	4667	4789	4456	5408	5310	4126	4544	5301	5502
5461	5125	4949	5127	4825	5120	5506	5391	4699	4457	5065	5151
1765	1620	2217	2358	3106	2664	2142	1657	1796	2095	3069	3156
6058	4670	4846	4059	3895	2649	2271	1794	1962	2274	3504	5244
4046	3576	3401	3242	3615	3042	2386	2010	1798	2022	2525	2119
16393	14946	15176	13537	14231	14665	15960	14404	15122	14999	15944	16945
20765	19097	18547	17261	17882	18920	20256	19082	18484	19082	19241	20648
21049	20052	21155	19195	19199	20113	21290	19807	19706	19802	20451	21223
244	367	463	713	628	571	516	505	211	439	625	438
27	51	247	-37	134	409	237	124	160	55	-24	-119
-318	-300	-234	-621	-304	-321	-242	-455	-54	-331	-46	198
469	343	234	216	220	178	215	261	341	490	316	385
587	380	369	219	266	416	420	472	437	390	322	400
405	276	339	329	393	426	408	386	388	411	359	484
16168	14970	15405	14034	14639	15058	16261	14648	14992	14948	16253	16998
20205	18768	18425	17005	17750	18913	20073	18734	18207	18747	18895	20129
20326	19476	20582	18245	18502	19366	20640	18966	19264	19060	20046	20937
94	94	94	94	94	94	94	94	94	94	94	94
94	94	94	94	94	94	94	94	94	94	94	94
94	94	94	94	94	94	94	94	94	94	94	94
0,45	0,28	0,56	0,51	0,95	0,58	0,41	0,55	1,50	1,85	0,94	0,83
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
18818	19024	17259	17201	16719	18116	18893	16489	16517	16604	19217	**19384**
24837	24753	21255	20398	20271	21596	21766	20320	20799	20090	22241	23436
24340	23923	23288	22094	20314	21118	23518	20621	21401	20625	24035	**25041**
26382	26460	23324	23007	23503	25810	26173	22243	23598	23908	26544	**26983**
34507	**34991**	26176	27135	28716	31611	30495	27636	29410	28907	30631	32377
33804	33314	31849	30233	29813	30354	33110	27630	31515	29985	33771	**34543**
28248	28248	24983	23388	23727	26824	27727	23002	24248	26016	29307	**30115**
37163	37048	28924	27597	29915	33459	31918	30179	30866	31016	33106	35648
36012	35157	32646	31178	30554	31536	35326	29414	32569	32022	36690	**37196**
26495	26495	22714	22159	22448	25321	26434	22097	24188	23223	25744	**27169**
33478	**34452**	26339	28098	29625	31741	30857	27556	29396	28271	31035	33378
36012	35157	32646	31178	30554	31536	35326	29414	32569	32022	**36690**	33455

Physical exchanges in interconnected operation [1]

Spain | GWh

MM_YY	ES→FR	ES→PT	ES→MA	ES_UCTE_EXP	ES_III_EXP	FR→ES	PT→ES	MA→ES	ES_UCTE_IMP	ES_III_IMP	ES_UCTE_SLD	ES_III_SLD
	Export (-)					Import (+)					Balance	
I.99	66	454	67	520	67	531	337	0	868	0	348	-67
II.99	55	361	60	416	60	560	323	0	883	0	467	-60
III.99	50	380	64	430	64	600	397	0	997	0	567	-64
IV.99	65	226	64	291	64	601	479	0	1080	0	789	-64
V.99	38	141	203	179	203	521	482	0	1003	0	824	-203
VI.99	35	200	175	235	175	503	480	0	983	0	748	-175
VII.99	56	386	186	442	186	706	449	0	1155	0	713	-186
VIII.99	25	139	198	164	198	673	194	0	867	0	703	-198
IX.99	47	425	211	472	211	648	251	0	899	0	427	-211
X.99	40	270	185	310	185	655	303	0	958	0	648	-185
XI.99	47	220	192	267	192	729	383	0	1112	0	845	-192
XII.99	65	311	198	376	198	678	375	0	1053	0	677	-198
1999	**589**	**3513**	**1803**	**4102**	**1803**	**7405**	**4453**	**0**	**11858**	**0**	**7756**	**-1803**
I.03	132	443	148	575	148	443	362	0	805	0	230	-148
II.03	61	388	100	449	100	356	297	0	653	0	204	-100
III.03	21	383	127	404	127	544	279	0	823	0	419	-127
IV.03	43	418	184	461	184	393	250	0	643	0	182	-184
V.03	24	586	212	610	212	651	317	0	968	0	358	-212
VI.03	22	470	98	492	98	703	308	0	1011	0	519	-98
VII.03	41	590	73	631	73	680	274	0	954	0	323	-73
VIII.03	14	565	96	579	96	683	151	0	834	0	255	-96
IX.03	20	544	124	564	124	660	203	0	863	0	299	-124
X.03	60	523	81	583	81	582	171	0	753	0	170	-81
XI.03	62	405	112	467	112	378	214	0	592	0	125	-112
XII.03	102	455	102	557	102	316	281	0	597	0	40	-102
2003	**602**	**5770**	**1457**	**6372**	**1457**	**6389**	**3107**	**0**	**9496**	**0**	**3124**	**-1457**
I.04	99	689	135	788	135	400	268	0	668	0	-120	-135
II.04	84	618	127	702	127	374	215	0	589	0	-113	-127
III.04	119	701	87	820	87	537	188	1	725	1	-95	-86
IV.04	95	850	169	945	169	402	114	0	516	0	-429	-169
V.04	51	754	124	805	124	486	143	1	629	1	-176	-123
VI.04	42	733	126	775	126	469	118	5	587	5	-188	-121
VII.04	44	805	127	849	127	593	146	4	739	4	-110	-123
VIII.04	66	753	120	819	120	366	115	2	481	2	-338	-118
IX.04	15	625	85	640	85	528	158	3	686	3	46	-82
X.04	67	727	193	794	193	498	190	1	688	1	-106	-192
XI.04	60	595	138	655	138	561	217	1	778	1	123	-137
XII.04	18	673	148	691	148	820	258	3	1078	3	387	-145
2004	**760**	**8523**	**1579**	**9283**	**1579**	**6034**	**2130**	**21**	**8164**	**21**	**-1119**	**-1558**

[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	FR_UCTE_EXP	FR_III_EXP	BE→FR	CH→FR	DE→FR	ES→FR	IT→FR	GB→FR	FR_UCTE_IMP	FR_III_IMP	FR_UCTE_SLD	FR_III_SLD
	Export (-)								Import (+)								Balance	
I.99	163	1087	993	531	1407	1338	4181	1338	336	121	12	66	38	0	573	0	-3608	-1338
II.99	203	1079	1050	560	1386	1168	4278	1168	233	170	0	55	35	0	493	0	-3785	-1168
III.99	271	1106	1221	600	1528	1361	4726	1361	190	105	0	50	35	0	380	0	-4346	-1361
IV.99	359	876	1422	601	1281	1275	4539	1275	23	85	0	65	26	0	199	0	-4340	-1275
V.99	431	507	1030	521	1350	1351	3839	1351	31	105	8	38	16	0	198	0	-3641	-1351
VI.99	505	433	914	503	1232	1192	3587	1192	24	226	28	35	36	0	349	0	-3238	-1192
VII.99	694	392	1222	706	1190	1114	4204	1114	7	169	5	56	70	0	307	0	-3897	-1114
VIII.99	1018	411	1571	673	781	1318	4454	1318	0	276	1	25	87	0	389	0	-4065	-1318
IX.99	916	607	1375	648	1237	1076	4783	1076	0	411	3	47	33	0	494	0	-4289	-1076
X.99	589	722	1199	655	1422	1341	4587	1341	10	202	38	40	10	0	300	0	-4287	-1341
XI.99	344	783	909	729	1461	1158	4226	1158	84	174	42	47	20	0	367	0	-3859	-1158
XII.99	337	975	865	678	1495	1222	4350	1222	72	165	85	65	35	0	422	0	-3928	-1222
1999	**5830**	**8978**	**13771**	**7405**	**15770**	**14914**	**51754**	**14914**	**1010**	**2209**	**222**	**589**	**441**	**0**	**4471**	**0**	**-47283**	**-14914**
I.03	868	1154	1660	443	1749	650	5874	650	50	118	4	132	37	32	341	32	-5533	-618
II.03	844	1167	1824	356	1701	246	5892	246	63	120	0	61	33	285	277	285	-5615	39
III.03	1022	1402	1974	544	1888	371	6830	371	41	46	0	21	36	235	144	235	-6686	-136
IV.03	763	1065	1620	393	1666	362	5507	362	63	71	2	43	35	243	214	243	-5293	-119
V.03	843	796	1844	651	1600	561	5734	561	56	49	0	24	33	194	162	194	-5572	-367
VI.03	1059	605	1812	703	1327	354	5506	354	85	233	1	22	49	520	390	520	-5116	166
VII.03	845	631	1722	680	1334	292	5212	292	52	187	86	41	55	247	421	247	-4791	-45
VIII.03	619	598	1684	683	872	411	4456	411	52	249	22	14	60	112	397	112	-4059	-299
IX.03	651	776	1396	660	1601	47	5084	47	126	91	4	20	22	587	263	587	-4821	540
X.03	484	848	903	582	1373	296	4190	296	135	156	32	60	16	308	399	308	-3791	12
XI.03	875	1293	1877	378	1425	688	5848	688	37	51	0	62	28	178	178	178	-5670	-510
XII.03	527	1357	1911	316	1489	1023	5600	1023	112	92	1	102	30	34	337	34	-5263	-989
2003	**9400**	**11692**	**20227**	**6389**	**18025**	**5301**	**65733**	**5301**	**872**	**1463**	**152**	**602**	**434**	**2975**	**3523**	**2975**	**-62210**	**-2326**
I.04	728	1261	1519	400	1527	954	5435	954	130	126	5	99	32	78	392	78	-5043	-876
II.04	518	1035	746	374	1416	661	4089	661	134	125	79	84	34	92	456	92	-3633	-569
III.04	505	989	603	537	1635	465	4269	465	144	100	91	119	33	264	487	264	-3782	-201
IV.04	561	910	845	402	1479	751	4197	751	124	82	79	95	37	33	417	33	-3780	-718
V.04	624	734	1494	486	1353	829	4691	829	48	43	14	51	38	83	194	83	-4497	-746
VI.04	870	484	1416	469	1285	948	4524	948	31	286	62	42	45	39	466	39	-4058	-909
VII.04	352	452	1493	593	1376	928	4266	928	144	421	27	44	67	16	703	16	-3563	-912
VIII.04	856	655	1672	366	1162	896	4711	896	78	234	6	66	88	7	472	7	-4239	-889
IX.04	623	734	1443	528	1362	772	4690	772	99	231	4	15	50	24	399	24	-4291	-748
X.04	802	892	1453	498	1499	1271	5144	1271	23	227	4	67	19	0	340	0	-4804	-1271
XI.04	683	793	1544	561	1523	925	5104	925	91	216	7	60	53	117	427	117	-4677	-808
XII.04	475	881	1254	820	1508	924	4938	924	133	213	18	18	48	59	430	59	-4508	-865
2004	**7597**	**9820**	**15482**	**6034**	**17125**	**10324**	**56058**	**10324**	**1179**	**2304**	**396**	**760**	**544**	**812**	**5183**	**812**	**-50875**	**-9512**

[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 conventional net production	GWh	Σ	1999	40662
			2003	44389
			2004	55365
Thermal nuclear net production	GWh	Σ	1999	373423
			2003	419954
			2004	426816
Hydraulic net production	GWh	Σ	1999	71130
			2003	60357
			2004	64458
Total net electrical energy production	GWh	Σ	1999	485215
			2003	524700
			2004	546639
Total physical import / export balance [1]	GWh	Σ	1999	-63476
			2003	-66558
			2004	-62107
Consumption of pumps	GWh	Σ	1999	6153
			2003	7328
			2004	7294
National electrical consumption	GWh	Σ	1999	415586
			2003	450814
			2004	477238
National electrical consumption as percentage of total values	%	∅ pond.	1999	98
			2003	97
			2004	100
Energy capability factor (hydro power)		∅ pond.	1999	1,02
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	55084
			2003	66137
			2004	64420
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	62821
			2003	76249
			2004	77328
Peak load on the 3rd Wednesday	MW	max.	1999	65521
			2003	76656
			2004	79981
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	71165
			2003	83343
			2004	83264

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
5041	5134	3819	2316	1724	2126	2395	1843	2870	3180	4591	5623
5399	5140	4110	3541	2199	2248	2733	2693	3152	4042	4609	4523
6393	6282	7177	4266	3042	3077	2628	2801	3149	3502	6187	6861
36148	32020	32730	31681	26693	26988	29724	28519	29477	31923	32806	34714
40335	36453	35837	34473	32460	30997	33136	29990	31458	35464	37677	41674
41762	36195	36113	33943	32039	30499	32408	30449	33064	37584	39283	43477
4683	5683	6285	5865	7847	6617	5523	4846	4718	5896	6292	6875
7901	6877	5944	4573	5356	5070	3801	3587	3303	4576	4194	5175
7040	6326	6623	5508	6494	6083	4840	4277	3857	4180	4364	4866
45872	42837	42834	39862	36264	35731	37642	35208	37065	40999	43689	47212
53635	48470	45891	42587	40015	38315	39670	36270	37913	44082	46480	51372
55195	48803	49913	43717	41575	39659	39876	37527	40070	45266	49834	55204
-5030	-5054	-5819	-5684	-5034	-4523	-5106	-5500	-5473	-5722	-5170	-5361
-6377	-5777	-6977	-5553	-6099	-5122	-5018	-4523	-4437	-3958	-6287	-6430
-6053	-4356	-4134	-4623	-5391	-5107	-4573	-5276	-5186	-6229	-5645	-5534
600	379	394	428	651	500	523	518	470	599	499	592
502	449	615	644	679	501	554	600	611	653	808	712
732	576	575	545	667	496	581	474	550	822	655	621
40242	37404	36621	33750	30579	30708	32013	29190	31122	34678	38020	41259
46756	42244	38299	36390	33237	32692	34098	31147	32865	39471	39385	44230
48410	43871	45204	38549	35517	34056	34722	31777	34334	38215	43534	49049
99	99	99	99	99	99	99	98	98	98	98	98
97	97	97	97	97	97	97	97	97	97	97	97
100	100	100	100	100	100	100	100	100	100	100	100
0,86	0,93	1,06	1,04	1,35	0,95	0,84	0,96	0,89	1,22	0,95	1,06
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
50243	**55084**	43252	45516	38103	38088	39765	34507	37450	44762	52319	52756
61583	**66137**	50004	44728	41854	41077	41375	36352	39296	43211	49486	59073
57664	58900	49132	49055	41535	41613	41663	36271	40792	46892	56670	**64420**
61050	**62821**	53314	56764	50931	51028	52200	45683	51558	58688	58562	59723
74468	**76249**	59818	56159	55887	55362	55640	47608	53314	58320	63061	70944
71713	68683	59763	59854	54421	55140	55814	48623	55328	61319	69865	**77328**
62851	64783	54609	56911	51353	51370	52616	46318	51560	58956	63219	**65521**
76097	**76656**	61544	56582	55887	55898	56269	48419	54126	58873	66686	74070
74535	71184	60997	60334	55245	55841	56407	50121	55783	61597	73166	**79981**
67914	**71165**	62105	66114	58676	59155	60722	54864	59752	65363	64617	65640
81805	**83343**	70472	66044	63936	63208	60038	53714	60637	65217	73234	79264
81061	75293	67824	66502	62673	60882	61428	54262	60638	70740	75295	**83264**

Greece

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	37004
			2003	43291
			2004	44243
Thermal nuclear net production	GWh	Σ	1999	0
			2003	0
			2004	0
Hydraulic net production	GWh	Σ	1999	4787
			2003	5206
			2004	4926
Total net electrical energy production	GWh	Σ	1999	41791
			2003 [2]	48497
			2004 [2]	49169
Total physical import / export balance [1]	GWh	Σ	1999	162
			2003	2150
			2004	2818
Consumption of pumps	GWh	Σ	1999	335
			2003	813
			2004	766
National electrical consumption	GWh	Σ	1999	41618
			2003	49834
			2004	51221
National electrical consumption as percentage of total values	%∅	pond.	1999	95
			2003	93
			2004	100
Energy capability factor (hydro power)	∅	pond.	1999	1,07
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	4621
			2003	5356
			2004	5538
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	6761
			2003	8258
			2004	8347
Peak load on the 3rd Wednesday	MW	max.	1999	7366
			2003	8414
			2004	8507
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	7233
			2003	7718
			2004	7432

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
3330	2951	2763	2733	2720	3141	3571	3302	2829	3092	3168	3404
3227	3219	3514	3354	3538	3755	4156	3976	3598	3535	3499	3920
3884	3550	3570	3349	3229	3510	4225	3936	3682	3573	3641	4094
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
389	430	559	549	371	339	325	322	220	331	466	486
715	715	472	304	333	356	543	416	291	318	343	400
427	479	518	357	458	402	490	380	342	315	430	328
3719	3381	3322	3282	3091	3480	3896	3624	3049	3423	3634	3890
3942	3934	3986	3658	3871	4111	4699	4392	3889	3853	3842	4320
4311	4029	4088	3706	3687	3912	4715	4316	4024	3888	4071	4422
-198	-173	4	57	145	203	269	258	171	-104	-253	-217
169	153	190	140	116	247	393	229	116	104	129	164
240	102	114	122	199	365	502	479	176	136	137	246
21	13	5	4	48	52	58	46	26	23	30	9
7	25	53	76	81	81	77	77	81	83	82	90
67	57	49	65	48	57	60	69	71	56	71	96
3500	3195	3321	3335	3188	3631	4107	3836	3194	3296	3351	3664
4104	4062	4123	3722	3906	4277	5015	4544	3924	3874	3889	4394
4484	4074	4153	3763	3838	4220	5157	4726	4129	3968	4137	4572
95	95	95	95	95	95	95	95	95	95	95	95
93	93	93	93	93	93	93	93	93	93	93	93
100	100	100	100	100	100	100	100	100	100	100	100
0,67	1,17	1,24	1,18	0,96	0,86	0,98	0,99	0,90	0,69	1,30	1,22
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
4027	3963	3702	3149	3344	4106	4586	**4621**	3347	3338	3715	4015
4539	4894	4490	3872	4062	4916	5333	**5356**	3828	3852	4152	4496
4449	4882	4321	4052	3830	4523	**5538**	4668	4214	3858	4185	5029
5742	5709	5845	5013	5339	6450	**6761**	6538	5235	5297	5410	5666
6602	7642	6645	6024	6701	7705	**8258**	7870	6247	6269	6215	7550
6767	7400	6228	6456	6240	7559	**8347**	7184	6871	6337	6573	7524
6214	6290	6133	5686	5789	6898	**7366**	7110	6122	5953	6377	6674
7100	7668	7147	6428	6812	7868	**8414**	8145	6806	6627	6832	8084
7080	7667	6818	6696	6636	7712	**8507**	7313	7363	6698	7171	8122
6004	5904	5933	5314	5688	6843	**7233**	6952	5605	5575	5743	5974
6264	7266	6160	5658	6490	7227	**7718**	7263	6173	5982	6048	7046
6294	7222	6043	6044	5944	7081	**7432**	6312	6624	6130	6363	7342

Physical exchanges in interconnected operation [1]

MM_YY	GR→BG	GR→IT	GR→MK	GR→AL	GR_UCTE_EXP	GR_III_EXP	BG→GR	IT→GR	MK→GR	AL→GR	GR_UCTE_IMP	GR_III_IMP	GR_UCTE_SLD	GR_III_SLD
	Export (-)						Import (+)						Balance	
I.99	49	0	50	121	50	170	8	0	14	0	14	8	-36	-162
II.99	34	0	58	127	58	161	23	0	23	0	23	23	-35	-138
III.99	10	0	5	119	5	129	32	0	103	3	103	35	98	-94
IV.99	6	0	17	51	17	57	69	0	58	4	58	73	41	16
V.99	1	0	62	11	62	12	152	0	14	53	14	205	-48	193
VI.99	1	0	36	25	36	26	174	0	47	44	47	218	11	192
VII.99	0	0	1	43	1	43	196	0	107	10	107	206	106	163
VIII.99	1	0	2	43	2	44	210	0	87	7	87	217	85	173
IX.99	1	0	1	66	1	67	165	0	71	3	71	168	70	101
X.99	15	0	59	101	59	116	55	0	16	0	16	55	-43	-61
XI.99	66	0	60	157	60	223	16	0	13	0	13	16	-47	-207
XII.99	60	0	97	96	97	156	28	0	6	2	6	30	-91	-126
1999	**244**	**0**	**448**	**960**	**448**	**1204**	**1128**	**0**	**559**	**126**	**559**	**1254**	**111**	**50**
I.03	0	0	9	33	9	33	157	0	39	15	196	15	187	-18
II.03	0	3	8	19	11	19	129	0	41	13	170	13	159	-6
III.03	0	56	0	56	56	56	204	0	97	1	301	1	245	-55
IV.03	0	107	6	54	113	54	166	0	140	1	306	1	193	-53
V.03	0	223	0	70	223	70	281	0	128	0	409	0	186	-70
VI.03	0	73	5	73	78	73	289	0	109	0	398	0	320	-73
VII.03	0	14	4	72	18	72	399	10	75	0	484	0	466	-72
VIII.03	0	127	2	109	129	109	389	3	77	0	469	0	340	-109
IX.03	0	192	11	88	203	88	358	0	50	0	408	0	205	-88
X.03	0	74	43	60	117	60	233	12	26	11	271	11	154	-49
XI.03	1	139	27	66	167	66	315	3	37	8	355	8	188	-58
XII.03	0	125	38	76	163	76	382	0	19	2	401	2	238	-74
2003	**1**	**1133**	**153**	**776**	**1287**	**776**	**3302**	**28**	**838**	**51**	**4168**	**51**	**2881**	**-725**
I.04	0	56	51	41	107	41	365	0	12	10	377	10	270	-31
II.04	0	190	6	90	196	90	335	0	51	2	386	2	190	-88
III.04	0	220	8	22	228	22	277	0	60	28	337	28	109	6
IV.04	0	146	1	12	147	12	100	0	157	24	257	24	110	12
V.04	0	149	5	7	154	7	189	0	118	53	307	53	153	46
VI.04	0	26	1	3	27	3	266	0	79	49	345	49	318	46
VII.04	1	0	2	20	3	20	323	107	71	25	501	25	498	5
VIII.04	0	0	3	32	3	32	363	82	58	12	503	12	500	-20
IX.04	0	154	11	71	165	71	363	1	49	0	413	0	248	-71
X.04	0	195	2	88	197	88	341	0	81	0	422	0	225	-88
XI.04	0	192	8	61	200	61	348	1	46	2	395	2	195	-59
XII.04	0	96	4	69	100	69	363	0	51	0	414	0	314	-69
2004	**1**	**1424**	**102**	**516**	**1527**	**516**	**3633**	**191**	**833**	**205**	**4657**	**205**	**3130**	**-311**

[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]

Croatia | GWh

MM_YY	HR→BA	HR→CS	HR→HU	HR→SI	HR_UCTE_EXP	HR_III_EXP	BA→HR	CS→HR	HU→HR	SI→HR	HR_UCTE_IMP	HR_III_IMP	HR_UCTE_SLD	HR_III_SLD
	Export (-)						Import (+)						Balance	
I.99	23	0	0	0	23	0	0	0	55	121	176	0	153	0
II.99	3	0	0	0	3	0	1	3	51	136	191	0	188	0
III.99	49	0	0	0	49	0	0	0	52	164	216	0	167	0
IV.99	0	0	0	26	26	0	67	0	22	0	89	0	63	0
V.99	0	0	0	0	0	0	6	0	17	14	37	0	37	0
VI.99	0	0	0	0	0	0	53	0	22	87	162	0	162	0
VII.99	0	0	0	0	0	0	41	0	24	147	212	0	212	0
VIII.99	0	0	0	0	0	0	30	0	39	207	276	0	276	0
IX.99	0	0	0	0	0	0	40	0	27	190	257	0	257	0
X.99	0	0	0	0	0	0	9	0	19	251	279	0	279	0
XI.99	59	0	0	0	59	0	0	0	70	283	353	0	294	0
XII.99	41	0	0	43	84	0	0	0	340	0	340	0	256	0
1999	**175**	**0**	**0**	**69**	**244**	**0**	**247**	**3**	**738**	**1600**	**2588**	**0**	**2344**	**0**
I.03	165	0	0	439	604	0	46	0	533	152	731	0	127	0
II.03	126	0	0	354	480	0	59	0	467	133	659	0	179	0
III.03	113	0	0	367	480	0	59	0	534	144	737	0	257	0
IV.03	62	0	0	341	403	0	72	0	513	152	737	0	334	0
V.03	58	0	0	285	343	0	136	0	463	87	686	0	343	0
VI.03	101	0	1	268	370	0	107	0	435	202	744	0	374	0
VII.03	93	0	0	257	350	0	84	8	414	220	726	0	376	0
VIII.03	113	0	0	173	286	0	71	18	424	144	657	0	371	0
IX.03	178	0	0	174	352	0	47	16	458	205	726	0	374	0
X.03	115	0	0	306	421	0	108	21	533	205	867	0	446	0
XI.03	71	0	0	336	407	0	138	23	502	99	762	0	355	0
XII.03	95	0	0	365	460	0	127	0	566	133	826	0	366	0
2003	**1290**	**0**	**1**	**3665**	**4956**	**0**	**1054**	**86**	**5842**	**1876**	**8858**	**0**	**3902**	**0**
I.04	80	0	0	361	441	0	140	32	549	126	847	0	406	0
II.04	58	0	0	442	500	0	167	26	575	96	864	0	364	0
III.04	65	0	0	363	428	0	207	25	483	35	750	0	322	0
IV.04	88	0	0	539	627	0	144	20	364	271	799	0	172	0
V.04	61	0	0	363	424	0	162	18	163	245	588	0	164	0
VI.04	42	0	0	384	426	0	92	19	257	234	602	0	176	0
VII.04	61	0	0	388	449	0	97	19	365	248	729	0	280	0
VIII.04	91	0	0	304	395	0	118	11	341	233	703	0	308	0
IX.04	76	0	0	515	591	0	193	12	535	36	776	0	185	0
X.04	102	0	0	484	586	0	242	218	459	116	1035	0	449	0
XI.04	125	1	0	547	673	0	222	335	467	87	1111	0	438	0
XII.04	70	0	0	747	817	0	315	305	572	58	1250	0	433	0
2004	**919**	**1**	**0**	**5437**	**6357**	**0**	**2099**	**1040**	**5130**	**1785**	**10054**	**0**	**3697**	**0**

[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 conventional net production	GWh	Σ	1999	4807
			2003	6966
			2004	5432
Thermal nuclear net production	GWh	Σ	1999	0
			2003	0
			2004	0
Hydraulic net production	GWh	Σ	1999	6526
			2003	4895
			2004	7000
Total net electrical energy production	GWh	Σ	1999 [2]	11333
			2003 [2]	11861
			2004 [2]	12432
Total physical import / export balance [1]	GWh	Σ	1999	2344
			2003	3663
			2004	3662
Consumption of pumps	GWh	Σ	1999	4
			2003	87
			2004	134
National electrical consumption	GWh	Σ	1999	13673
			2003	15437
			2004	15960
National electrical consumption as percentage of total values	%	∅ pond.	1999	100
			2003	100
			2004	100
Energy capability factor (hydro power)		∅ pond.	1999	1,03
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	1401
			2003	1643
			2004	1544
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	2347
			2003	2453
			2004	2445
Peak load on the 3rd Wednesday	MW	max.	1999	2375
			2003	2618
			2004	2692
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	1886
			2003	2453
			2004	2295

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
651	522	426	312	266	316	393	375	361	351	465	369
608	575	557	501	501	522	603	704	832	534	413	616
592	577	369	206	245	445	558	617	623	430	385	385
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
571	572	653	693	672	474	420	371	375	450	484	791
752	663	545	381	282	263	270	179	166	323	539	532
568	517	774	877	779	531	462	339	408	407	570	768
1222	1094	1079	1005	938	790	813	746	736	801	949	1160
1360	1238	1102	882	783	785	873	883	998	857	952	1148
1160	1094	1143	1083	1024	976	1020	956	1031	837	955	1153
153	188	167	63	37	162	212	276	257	279	294	256
127	179	257	333	331	373	377	373	144	447	355	367
407	363	318	171	161	172	279	308	183	441	429	430
1	0	1	1	0	1	0	0	0	0	0	0
7	0	1	5	9	12	18	9	8	13	2	3
5	9	3	0	6	12	30	15	6	21	12	15
1374	1282	1245	1067	975	951	1025	1022	993	1080	1243	1416
1480	1417	1358	1210	1105	1146	1232	1247	1134	1291	1305	1512
1562	1448	1458	1254	1179	1136	1269	1249	1208	1257	1372	1568
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
1,06	0,97	0,78	1,18	1,01	0,82	1,00	1,15	1,03	0,69	0,83	1,64
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
1311	**1401**	1215	1092	917	972	1037	1044	983	1125	1226	1318
1624	**1643**	1418	1285	1095	1271	1224	1318	1132	1170	1348	1530
1489	**1544**	1347	1267	830	1184	1332	1270	1241	1272	1399	1534
2238	**2347**	2107	1916	1553	1597	1667	1685	1635	1961	2133	2225
2349	**2453**	2063	1865	1765	1892	1885	1991	1800	1927	2070	2377
2365	2311	1919	1883	1644	1830	2067	1966	1928	1967	2110	**2445**
2309	**2375**	2223	1968	1637	1656	1707	1780	1795	2087	2257	2336
2507	**2618**	2309	2049	1835	1950	1989	2151	2030	2213	2323	2602
2576	2600	2288	2104	1710	1940	2177	2176	2147	2224	2363	**2692**
1886	1762	1786	1800	1473	1433	1219	1177	1149	1529	1633	1713
2349	**2453**	2063	2049	1765	1439	880	1483	1507	1855	2096	2450
2101	**2295**	2021	1890	1861	1880	2039	1943	1712	1589	1929	2024

Hungary

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	20743
			2003	20956
			2004	19358
Thermal nuclear net production	GWh	Σ	1999	13268
			2003	10362
			2004	11199
Hydraulic net production	GWh	Σ	1999	176
			2003	162
			2004	196
Total net electrical energy production	GWh	Σ	1999 [2]	34187
			2003 [2]	31480
			2004 [2]	30753
Total physical import / export balance [1]	GWh	Σ	1999	1062
			2003	6938
			2004	7468
Consumption of pumps	GWh	Σ	1999	0
			2003	0
			2004	0
National electrical consumption	GWh	Σ	1999	35249
			2003	38418
			2004	38221
National electrical consumption as percentage of total values	%∅	pond.	1999	100
			2003	100
			2004	100
Energy capability factor (hydro power)	∅	pond.	1999	-
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	4360
			2003	4373
			2004	4397
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	5466
			2003	5477
			2004	5834
Peak load on the 3rd Wednesday	MW	max.	1999	5626
			2003	5887
			2004	6357
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	5532
			2003	5012
			2004	4974

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
2172	1975	1998	1635	1511	1427	1532	1527	1533	1650	1897	1886
2024	1904	1665	1653	1627	1698	1797	1809	1580	1815	1609	1775
1970	1666	1696	1736	1654	1436	1449	1357	1232	1634	1608	1920
1243	1161	1082	1023	1006	957	911	947	1069	1296	1262	1311
1237	928	1201	898	757	747	622	581	725	738	944	984
989	925	937	586	581	782	953	977	1228	982	1171	1088
12	16	4	4	8	22	23	19	17	17	16	18
10	14	14	15	20	11	12	10	8	15	15	18
18	14	9	5	21	23	16	21	18	22	15	14
3427	3152	3084	2662	2525	2406	2466	2493	2619	2963	3175	3215
3271	2846	2880	2566	2404	2456	2431	2400	2313	2568	2568	2777
2977	2605	2642	2327	2256	2241	2418	2355	2478	2638	2794	3022
-67	-101	39	105	148	217	250	174	108	65	38	86
235	395	466	484	594	597	668	719	698	735	744	603
526	648	705	698	734	693	662	659	572	615	548	408
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
3360	3051	3123	2767	2673	2623	2716	2667	2727	3028	3213	3301
3506	3241	3346	3050	2998	3053	3099	3119	3011	3303	3312	3380
3503	3253	3347	3025	2990	2934	3080	3014	3050	3253	3342	3430
99	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
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
4253	**4360**	4095	3771	3502	3402	3277	3323	3362	3920	4061	4052
4357	**4373**	4042	3815	3553	3699	3623	3615	3676	4011	4142	4253
4325	4275	3972	3823	3824	3722	3967	3805	3835	4172	4240	**4397**
5466	5268	5140	4653	4381	4580	4567	4488	4553	5117	5280	5247
5442	**5477**	5122	4907	4929	5079	5074	4004	4994	5135	5248	5337
5389	5446	4915	4882	4945	5020	5450	5107	5113	5161	5534	**5834**
5626	5508	5324	4869	4518	4592	4658	4614	4795	5412	5614	5560
5852	5846	5585	5122	4962	5221	5296	4340	5283	5595	**5887**	5862
5821	5784	5451	5003	5021	5028	5543	5294	5331	5668	6060	**6357**
5532	5285	4967	4393	3978	4208	4167	4188	4338	5041	5014	4977
5012	**5012**	4346	4143	3901	4094	4145	3198	3751	4001	4019	4285
4314	4257	3751	3759	3699	3875	4345	3873	3944	3997	4340	**4974**

Physical exchanges in interconnected operation [1]

Hungary | GWh

MM_YY	HU→AT	HU→CS	HU→HR	HU→RO	HU→SK	HU→UA_W	HU_UCTE_EXP	HU_III_EXP	AT→HU	CS→HU	HR→HU	RO→HU	SK→HU	UA_W→HU	HU_UCTE_IMP	HU_III_IMP	HU_UCTE_SLD	HU_III_SLD
	Export (-)								Import (+)								Balance	
I.99	224	111	55	0	0	0	390	0	0	0	0	0	257	0	257	0	-133	0
II.99	211	100	51	0	0	3	362	3	0	0	0	0	223	41	223	41	-139	38
III.99	169	2	52	0	1	46	224	46	9	0	0	0	296	4	305	4	81	-42
IV.99	168	0	22	0	1	11	191	11	7	0	0	0	287	13	294	13	103	2
V.99	52	33	17	0	5	6	107	6	13	0	0	0	240	9	253	9	146	3
VI.99	77	49	22	0	0	5	148	5	20	0	0	0	305	45	325	45	177	40
VII.99	150	3	24	0	0	0	177	0	7	0	0	0	341	79	348	79	171	79
VIII.99	223	2	39	0	0	2	264	2	5	0	0	0	382	53	387	53	123	51
IX.99	192	1	27	0	0	2	220	2	2	0	0	0	263	65	265	65	45	63
X.99	218	1	19	0	0	0	238	0	0	0	0	0	248	55	248	55	10	55
XI.99	202	30	70	0	4	0	306	0	0	0	0	0	217	127	217	127	-89	127
XII.99	132	111	340	0	0	0	583	0	2	0	0	0	460	207	462	207	-121	207
1999	**2018**	**443**	**738**	**0**	**11**	**75**	**3210**	**75**	**65**	**0**	**0**	**0**	**3519**	**698**	**3584**	**698**	**374**	**623**
I.03	79	177	533	31	0	3	820	3	21	0	0	0	697	340	718	340	-102	337
II.03	21	183	467	30	0	1	701	1	27	0	0	0	716	354	743	354	42	353
III.03	25	77	534	29	0	2	665	2	35	0	0	0	745	353	780	353	115	351
IV.03	81	12	513	26	0	1	632	1	11	0	0	0	741	364	752	364	120	363
V.03	97	0	463	0	0	2	560	2	23	0	0	0	766	367	789	367	229	365
VI.03	68	0	435	0	0	3	503	3	17	0	1	0	763	322	781	322	278	319
VII.03	67	0	414	0	0	7	481	7	16	0	0	0	843	296	859	296	378	289
VIII.03	64	7	424	0	0	0	495	0	21	0	0	0	726	467	747	467	252	467
IX.03	11	6	458	0	0	4	475	4	55	0	0	0	772	350	827	350	352	346
X.03	6	0	533	0	0	0	539	0	192	0	0	0	613	469	805	469	266	469
XI.03	43	0	502	0	0	0	545	0	38	0	0	0	804	449	842	449	297	449
XII.03	76	60	566	0	0	0	702	0	12	0	0	0	862	430	874	430	172	430
2003	**638**	**522**	**5842**	**116**	**0**	**23**	**7118**	**23**	**468**	**0**	**1**	**0**	**9048**	**4561**	**9517**	**4561**	**2399**	**4538**
I.04	59	0	549	0	0	4	608	4	23	0	0	0	789	326	812	326	204	322
II.04	38	0	575	0	0	1	613	1	29	0	0	0	806	427	835	427	222	426
III.04	50	0	483	0	0	15	533	15	22	0	0	0	814	417	836	417	303	402
IV.04	37	0	364	0	0	0	401	0	64	0	0	0	670	367	734	367	333	367
V.04	188	0	163	0	0	0	351	0	21	0	0	0	728	336	749	336	398	336
VI.04	17	0	257	0	0	0	274	0	102	0	0	0	549	316	651	316	377	316
VII.04	27	2	365	0	0	0	394	0	40	0	0	0	671	346	711	346	317	346
VIII.04	65	1	341	0	0	0	407	0	34	0	0	0	632	401	666	401	259	401
IX.04	75	1	535	0	0	0	611	0	49	0	0	0	649	484	698	484	87	484
X.04	68	83	459	2	0	0	612	0	30	0	0	37	739	421	806	421	194	421
XI.04	36	129	467	12	0	3	644	3	48	0	0	87	690	370	825	370	181	367
XII.04	80	178	572	17	0	3	847	3	16	0	0	70	809	362	895	362	48	359
2004	**740**	**394**	**5130**	**31**	**0**	**26**	**6295**	**26**	**478**	**0**	**0**	**194**	**8546**	**4573**	**9218**	**4573**	**2923**	**4547**

[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	IT_UCTE_EXP	IT_III_EXP	AT→IT	CH→IT	FR→IT	GR→IT	SI→IT	IT_UCTE_IMP	IT_III_IMP	IT_UCTE_SLD	IT_III_SLD
	Export (-)							Import (+)							Balance	
I.99	0	0	38	0	8	46	0	133	1784	1407	0	262	3586	0	3540	0
II.99	0	0	35	0	14	49	0	117	1565	1386	0	208	3276	0	3227	0
III.99	0	0	35	0	8	43	0	132	1742	1528	0	232	3634	0	3591	0
IV.99	0	0	26	0	2	28	0	135	1977	1281	0	270	3663	0	3635	0
V.99	0	7	16	0	0	23	0	141	2018	1350	0	341	3850	0	3827	0
VI.99	0	1	36	0	2	39	0	163	1916	1232	0	306	3617	0	3578	0
VII.99	0	1	70	0	0	71	0	160	2162	1190	0	358	3870	0	3799	0
VIII.99	0	1	87	0	1	89	0	78	1390	781	0	226	2475	0	2386	0
IX.99	0	36	33	0	0	69	0	167	1852	1237	0	295	3551	0	3482	0
X.99	0	2	10	0	0	12	0	158	1818	1422	0	344	3742	0	3730	0
XI.99	0	0	20	0	2	22	0	155	1717	1461	0	211	3544	0	3522	0
XII.99	0	0	35	0	1	36	0	148	1735	1495	0	353	3731	0	3695	0
1999	**0**	**48**	**441**	**0**	**38**	**527**	**0**	**1687**	**21676**	**15770**	**0**	**3406**	**42539**	**0**	**42012**	**0**
I.03	0	0	37	0	0	37	0	150	2273	1749	0	564	4736	0	4699	0
II.03	0	1	33	0	0	34	0	132	2111	1701	3	438	4385	0	4351	0
III.03	0	9	36	0	1	46	0	141	2328	1888	56	468	4881	0	4835	0
IV.03	0	0	35	0	0	35	0	145	2311	1666	107	494	4723	0	4688	0
V.03	0	1	33	0	0	34	0	151	2046	1600	223	381	4401	0	4367	0
VI.03	0	0	49	0	0	49	0	137	2209	1327	73	402	4148	0	4099	0
VII.03	0	2	55	10	0	67	0	138	2467	1334	14	324	4277	0	4210	0
VIII.03	0	1	60	3	33	97	0	74	1951	872	127	94	3118	0	3021	0
IX.03	0	0	22	0	9	31	0	157	2217	1601	192	178	4345	0	4314	0
X.03	0	0	16	12	0	28	0	157	2202	1373	74	438	4244	0	4216	0
XI.03	0	0	28	3	0	31	0	138	1909	1425	139	369	3980	0	3949	0
XII.03	0	0	30	0	0	30	0	144	1915	1489	125	398	4071	0	4041	0
2003	**0**	**14**	**434**	**28**	**43**	**519**	**0**	**1664**	**25939**	**18025**	**1133**	**4548**	**51309**	**0**	**50790**	**0**
I.04	0	0	32	0	1	33	0	137	2044	1527	56	425	4189	0	4156	0
II.04	0	0	34	0	0	34	0	126	1793	1416	190	530	4055	0	4021	0
III.04	0	0	33	0	0	33	0	139	1828	1635	220	478	4300	0	4267	0
IV.04	0	0	37	0	0	37	0	145	1608	1479	146	571	3949	0	3912	0
V.04	0	1	38	0	0	39	0	132	1493	1353	149	444	3571	0	3532	0
VI.04	0	3	45	0	0	48	0	141	1451	1285	26	516	3419	0	3371	0
VII.04	0	0	67	107	0	174	0	152	1666	1376	0	517	3711	0	3537	0
VIII.04	0	5	88	82	2	177	0	112	1150	1162	0	228	2652	0	2475	0
IX.04	0	0	50	1	0	51	0	125	1657	1362	154	445	3743	0	3692	0
X.04	0	3	19	0	0	22	0	136	1550	1499	195	544	3924	0	3902	0
XI.04	0	2	53	1	0	56	0	136	1862	1523	192	718	4431	0	4375	0
XII.04	0	0	48	0	0	48	0	140	1813	1508	96	764	4321	0	4273	0
2004	**0**	**14**	**544**	**191**	**3**	**752**	**0**	**1621**	**19915**	**17125**	**1424**	**6180**	**46265**	**0**	**45513**	**0**

[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 conventional net production	GWh	Σ	1999	201174
			2003	236532
			2004	240859
Thermal nuclear net production	GWh	Σ	1999	0
			2003	0
			2004	0
Hydraulic net production	GWh	Σ	1999	51561
			2003	43651
			2004	49285
Total net electrical energy production	GWh	Σ	1999	252735
			2003	280183
			2004	290144
Total physical import / export balance [1]	GWh	Σ	1999	42012
			2003	50969
			2004	45513
Consumption of pumps	GWh	Σ	1999	8903
			2003	10493
			2004	10300
National electrical consumption	GWh	Σ	1999	285844
			2003	320659
			2004	325357
National electrical consumption as percentage of total values	%	∅ pond.	1999	100
			2003	100
			2004	100
Energy capability factor (hydro power)		∅ pond.	1999	1,04
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	26571
			2003	32993
			2004	32656
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	43789
			2003	51820
			2004	52356
Peak load on the 3rd Wednesday	MW	max.	1999	46262
			2003	51820
			2004	53093
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	40669
			2003	45148
			2004	46194

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
18132	17505	18197	15406	14537	15764	17572	14836	17030	16684	17415	18096
19262	18934	19895	18149	18091	19672	21958	19055	20263	21072	20045	20136
21136	20454	21215	18692	18012	18434	21092	18573	21382	21381	19746	20742
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
2906	2823	3414	4107	5858	5358	4849	4098	4617	5090	4442	3999
4350	3546	3347	2939	4700	5100	4433	2986	2584	2775	3444	3447
3132	3109	3548	3820	5660	5974	5657	3817	3255	3216	4423	3674
21038	20328	21611	19513	20395	21122	22421	18934	21647	21774	21857	22095
23612	22480	23242	21088	22791	24772	26391	22041	22847	23847	23489	23583
24268	23563	24763	22512	23672	24408	26749	22390	24637	24597	24169	24416
3540	3227	3591	3635	3827	3578	3799	2386	3482	3730	3522	3695
4699	4343	4874	4702	4390	4113	4227	3040	4316	4230	3968	4067
4156	4021	4267	3912	3532	3371	3537	2475	3692	3902	4375	4273
746	690	681	723	801	701	748	632	786	785	780	830
906	839	913	853	866	902	849	822	808	875	874	986
901	892	925	840	882	895	869	755	724	790	932	895
23832	22865	24521	22425	23421	23999	25472	20688	24343	24719	24599	24960
27405	25984	27203	24937	26315	27983	29769	24259	26355	27202	26583	26664
27523	26692	28105	25584	26322	26884	29417	24110	27605	27709	27612	27794
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
0,81	0,83	0,98	1,04	1,21	0,91	0,84	1,09	1,18	1,28	1,20	1,19
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
23852	24674	23935	23690	24399	24944	**26571**	19807	25581	24145	24020	25227
28718	29066	28674	28535	28474	32104	**32993**	26430	28770	28460	28664	28709
28865	29467	28104	28156	28185	29680	**32656**	24040	30687	29087	28975	29749
40667	42812	40020	40720	40360	40677	43216	28680	41188	40872	40783	**43789**
49298	49904	46887	45727	45528	50587	**51820**	37064	45687	46541	47717	48896
48988	49611	46251	45358	44665	47635	**52356**	34080	49076	47655	48021	49347
42207	43183	40331	41068	40360	40677	43216	29300	41188	40878	42608	**46262**
51030	50266	47486	46286	45743	50587	**51820**	37488	45876	46541	49733	51371
50679	50230	47169	45896	44984	47635	52356	35567	49076	48196	50513	**53093**
36811	37579	34309	34899	34250	34847	37043	25487	35330	34823	36844	**40669**
44005	43195	40379	38698	40139	44065	**45148**	32878	39289	39183	42737	44422
43611	43192	40046	39025	39170	41821	**46194**	31667	42712	41038	43487	46138

Luxembourg

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	230
			2003	2560
			2004	3080
Thermal nuclear net production	GWh	Σ	1999	0
			2003	0
			2004	0
Hydraulic net production	GWh	Σ	1999	774
			2003	953
			2004	906
Total net electrical energy production	GWh	Σ	1999	1004
			2003	3513
			2004	3986
Total physical import / export balance [1]	GWh	Σ	1999	5561
			2003	3756
			2004	3365
Consumption of pumps	GWh	Σ	1999	916
			2003	1143
			2004	1055
National electrical consumption	GWh	Σ	1999	5649
			2003	6126
			2004	6296
National electrical consumption as percentage of total values	%	∅ pond.	1999	99
			2003	99
			2004	99
Energy capability factor (hydro power)		∅ pond.	1999	-
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	715
			2003	780
			2004	800
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	775
			2003	864
			2004	910
Peak load on the 3rd Wednesday	MW	max.	1999	845
			2003	918
			2004	952
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	823
			2003	864
			2004	917

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
23	21	23	23	17	14	16	14	16	18	21	24
236	256	132	211	271	245	105	56	247	280	287	234
295	274	279	261	155	251	256	238	278	285	284	224
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
66	58	55	56	59	60	47	57	64	80	87	85
89	71	66	68	74	74	83	83	75	88	89	93
90	73	69	76	71	69	69	68	76	78	79	88
89	79	78	79	76	74	63	71	80	98	108	109
325	327	198	279	345	319	188	139	322	368	376	327
385	347	348	337	226	320	325	306	354	363	363	312
478	447	479	470	439	450	471	384	464	505	504	470
318	253	422	310	245	257	425	390	270	284	279	303
243	265	305	260	380	278	295	209	252	286	270	322
73	60	56	56	70	74	61	75	86	100	106	99
95	78	71	80	89	92	104	105	97	108	113	111
96	79	78	89	88	86	86	83	91	90	88	101
494	466	501	493	445	450	473	380	458	503	506	480
548	502	549	509	501	484	509	424	495	544	542	519
532	533	575	508	518	512	534	432	515	559	545	533
99	99	99	99	99	99	99	99	99	99	99	98
99	99	99	99	99	99	99	99	99	99	99	99
99	99	99	99	99	99	99	99	99	99	99	99
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
715	701	677	659	658	573	629	519	485	673	705	655
622	697	637	633	621	656	706	467	681	739	**780**	725
697	720	732	685	673	606	699	519	696	693	**800**	701
738	747	768	766	754	738	710	645	661	740	**775**	722
864	745	698	801	740	772	812	656	722	860	791	852
850	**910**	809	760	741	801	810	719	843	895	896	828
795	777	823	766	768	761	737	667	713	803	**845**	488
918	806	866	830	766	796	826	661	776	894	861	880
862	929	882	823	839	807	862	726	866	950	**952**	877
764	774	790	789	780	758	**823**	664	680	762	796	742
864	754	704	801	743	779	823	659	728	860	800	855
857	**917**	816	762	747	804	818	720	849	900	903	830

Physical exchanges in interconnected operation [1]

Luxembourg | GWh

MM_YY	LU→BE	LU→DE	LU_UCTE_IMP	LU_III_IMP	BE→LU	DE→LU	LU_UCTE_IMP	LU_III_IMP	LU_UCTE_SLD	LU_III_SLD
	IMPort (-)				Import (+)				Balance	
I.99	0	49	49	0	167	361	528	0	479	0
II.99	0	45	45	0	166	326	492	0	447	0
III.99	0	41	41	0	178	342	520	0	479	0
IV.99	0	42	42	0	163	343	506	0	464	0
V.99	0	49	49	0	154	328	482	0	433	0
VI.99	0	54	54	0	164	334	498	0	444	0
VII.99	0	43	43	0	178	330	508	0	465	0
VIII.99	0	53	53	0	109	321	430	0	377	0
IX.99	0	60	60	0	162	357	519	0	459	0
X.99	0	71	71	0	179	390	569	0	498	0
XI.99	0	78	78	0	181	400	581	0	503	0
XII.99	0	72	72	0	145	397	542	0	470	0
1999	**0**	**657**	**657**	**0**	**1946**	**4229**	**6175**	**0**	**5518**	**0**
I.03	176	71	247	0	135	433	568	0	321	0
II.03	202	55	257	0	123	388	511	0	254	0
III.03	88	52	140	0	167	395	562	0	422	0
IV.03	162	59	221	0	142	388	530	0	309	0
V.03	213	65	278	0	128	396	524	0	246	0
VI.03	193	67	260	0	124	395	519	0	259	0
VII.03	73	77	150	0	154	421	575	0	425	0
VIII.03	33	78	111	0	100	401	501	0	390	0
IX.03	188	70	258	0	120	408	528	0	270	0
X.03	218	79	297	0	139	445	584	0	287	0
XI.03	232	81	313	0	148	444	592	0	279	0
XII.03	181	80	261	0	122	442	564	0	303	0
2003	**1959**	**834**	**2793**	**0**	**1602**	**4956**	**6558**	**0**	**3765**	**0**
I.04	229	71	300	0	110	433	543	0	243	0
II.04	215	55	270	0	140	395	535	0	265	0
III.04	213	54	267	0	153	420	573	0	306	0
IV.04	195	64	259	0	122	398	520	0	261	0
V.04	109	60	169	0	152	397	549	0	380	0
VI.04	196	61	257	0	139	396	535	0	278	0
VII.04	204	61	265	0	148	412	560	0	295	0
VIII.04	215	60	275	0	98	385	483	0	208	0
IX.04	226	65	291	0	135	409	544	0	253	0
X.04	222	64	286	0	150	422	572	0	286	0
XI.04	192	63	255	0	105	420	525	0	270	0
XII.04	166	73	239	0	120	441	561	0	322	0
2004	**2382**	**751**	**3133**	**0**	**1572**	**4928**	**6500**	**0**	**3367**	**0**

[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]

FYROM | GWh

MM_YY	MK→CS	MK→GR	MK_UCTE_EXP	MK_III_EXP	CS→MK	GR→MK	MK_UCTE_IMP	MK_III_IMP	MK_UCTE_SLD	MK_III_SLD
	Export (-)				Import (+)				Balance	
I.99	n.a.	14	14	0	n.a.	50	50	0	36	0
II.99	n.a.	23	23	0	n.a.	58	58	0	35	0
III.99	n.a.	103	103	0	n.a.	5	5	0	-98	0
IV.99	n.a.	58	58	0	n.a.	17	17	0	-41	0
V.99	n.a.	14	14	0	n.a.	62	62	0	48	0
VI.99	n.a.	47	47	0	n.a.	36	36	0	-11	0
VII.99	n.a.	107	107	0	n.a.	1	1	0	-106	0
VIII.99	n.a.	87	87	0	n.a.	2	2	0	-85	0
IX.99	n.a.	71	71	0	n.a.	1	1	0	-70	0
X.99	n.a.	16	16	0	n.a.	59	59	0	43	0
XI.99	n.a.	13	13	0	n.a.	60	60	0	47	0
XII.99	n.a.	6	6	0	n.a.	97	97	0	91	0
1999	**n.a.**	**559**	**559**	**0**	**n.a.**	**448**	**448**	**0**	**-111**	**0**
I.03	0	39	39	0	118	9	127	0	88	0
II.03	0	41	41	0	121	8	129	0	88	0
III.03	0	97	97	0	147	0	147	0	50	0
IV.03	0	140	140	0	178	6	184	0	44	0
V.03	0	128	128	0	174	0	174	0	46	0
VI.03	0	109	109	0	167	5	172	0	63	0
VII.03	0	75	75	0	162	4	166	0	91	0
VIII.03	0	77	77	0	122	2	124	0	47	0
IX.03	0	50	50	0	92	11	103	0	53	0
X.03	5	26	31	0	43	43	86	0	55	0
XI.03	0	37	37	0	127	27	154	0	117	0
XII.03	0	19	19	0	173	38	211	0	192	0
2003	**5**	**838**	**843**	**0**	**1624**	**153**	**1777**	**0**	**934**	**0**
I.04	0	12	12	0	163	51	214	0	202	0
II.04	0	51	51	0	168	6	174	0	123	0
III.04	0	60	60	0	145	8	153	0	93	0
IV.04	0	157	157	0	189	1	190	0	33	0
V.04	0	118	118	0	181	5	186	0	68	0
VI.04	0	79	79	0	143	1	144	0	65	0
VII.04	0	71	71	0	152	2	154	0	83	0
VIII.04	0	58	58	0	143	3	146	0	88	0
IX.04	0	49	49	0	120	11	131	0	82	0
X.04	0	81	81	0	146	2	148	0	67	0
XI.04	0	46	46	0	128	8	136	0	90	0
XII.04	0	51	51	0	229	4	233	0	182	0
2004	**0**	**833**	**833**	**0**	**1907**	**102**	**2009**	**0**	**1176**	**0**

[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".

FYROM

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	n.a
			2003	4945
			2004	4731
Thermal nuclear net production	GWh	Σ	1999	n.a
			2003	0
			2004	0
Hydraulic net production	GWh	Σ	1999	n.a
			2003	1324
			2004	1477
Total net electrical energy production	GWh	Σ	1999	n.a.
			2003 [2]	6269
			2004 [2]	6208
Total physical import / export balance [1]	GWh	Σ	1999	n.a
			2003	939
			2004	1176
Consumption of pumps	GWh	Σ	1999	n.a
			2003	0
			2004	0
National electrical consumption	GWh	Σ	1999	n.a
			2003	7208
			2004	7384
National electrical consumption as percentage of total values	%	∅ pond.	1999	n.a
			2003	100
			2004	100
Energy capability factor (hydro power)		∅ pond.	1999	n.a.
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	877
			2004	910
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	1181
			2004	1243
Peak load on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	1284
			2004	1358
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	n.a.
			2003	987
			2004	998

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

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.
468	407	475	440	303	278	313	381	415	478	488	499
469	473	475	380	273	260	302	338	361	431	470	499
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.
166	207	164	105	133	133	100	76	28	52	51	109
133	125	112	142	177	160	128	85	64	77	135	139
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
634	614	639	545	436	411	413	457	443	530	539	608
602	598	587	522	450	420	430	423	425	508	605	638
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
88	88	50	44	46	63	91	47	53	60	117	192
202	123	93	33	68	65	83	88	81	67	90	183
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.
722	702	689	589	482	474	504	504	496	590	656	800
804	721	680	555	518	485	513	511	506	575	695	821
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
860	868	747	589	493	524	529	519	513	545	744	**877**
730	866	673	629	516	487	542	536	520	586	760	**910**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1130	1172	1034	817	735	772	775	757	757	897	980	**1181**
1142	1147	851	887	768	729	789	774	751	782	1008	**1243**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1195	1222	1131	950	801	829	809	839	866	1014	1132	**1284**
1218	1242	1000	951	892	827	847	891	881	949	1212	**1358**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
925	**987**	929	797	670	570	655	639	668	811	731	909
877	**998**	713	839	631	610	626	614	604	649	869	**998**

The Netherlands

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	48623
			2003	88782
			2004	91033
Thermal nuclear net production	GWh	Σ	1999	3539
			2003	3787
			2004	3605
Hydraulic net production	GWh	Σ	1999	0
			2003	0
			2004	0
Total net electrical energy production	GWh	Σ	1999 [2]	52162
			2003 [2]	92569
			2004 [2]	94638
Total physical import / export balance [1]	GWh	Σ	1999	18657
			2003	16995
			2004	16219
Consumption of pumps	GWh	Σ	1999	0
			2003	0
			2004	0
National electrical consumption	GWh	Σ	1999	70819
			2003	109564
			2004	110857
National electrical consumption as percentage of total values	%∅	pond.	1999	73
			2003	100
			2004	100
Energy capability factor (hydro power)	∅	pond.	1999	-
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	6270
			2003	7935
			2004	8861
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	11533
			2003	13439
			2004	14307
Peak load on the 3rd Wednesday	MW	max.	1999	12104
			2003	13941
			2004	15053
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	8748
			2003	11683
			2004	11619

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
4651	4271	4532	3680	3587	3672	3911	3697	4262	3923	4114	4323
8344	7645	7734	7008	6917	6678	7331	7041	7307	7456	7456	7865
8190	7754	8109	7118	7084	6881	7241	7197	7444	7954	7868	8193
338	295	335	327	337	323	282	243	69	325	327	338
338	306	338	326	336	323	332	330	195	334	326	303
301	315	336	325	335	323	333	330	300	45	325	337
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
4989	4566	4867	4007	3924	3995	4193	3940	4331	4248	4441	4661
8682	7951	8072	7334	7253	7001	7663	7371	7502	7790	7782	8168
8491	8069	8445	7443	7419	7204	7574	7527	7744	7999	8193	8530
1219	1126	1350	1548	1771	1595	1692	1699	1757	1757	1578	1565
1404	1045	1326	1355	1497	1568	1067	1388	1326	1621	1705	1693
1573	1360	1404	1493	1348	1402	1140	1129	944	1401	1427	1598
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
6208	5692	6217	5555	5695	5590	5885	5639	6088	6005	6019	6226
10086	8996	9398	8689	8750	8569	8730	8759	8828	9411	9487	9861
10064	9429	9849	8936	8767	8606	8714	8656	8688	9400	9620	10128
72	73	73	72	74	73	74	73	76	71	70	70
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
5545	5716	5747	5265	5928	5818	6204	5635	**6270**	5290	5550	5670
7935	7498	7335	7399	7146	7829	7732	7584	7754	7404	7501	7380
8253	7663	7549	**8861**	8034	8084	8473	8384	7544	7706	7470	8127
11109	11146	11090	10503	10986	11078	10598	10044	**11533**	10603	11115	11482
13439	13018	12601	12669	12195	12574	12444	12627	12813	12373	13043	12840
13475	12976	12727	12817	12532	12679	13149	13062	12785	13273	13295	**14307**
11491	11196	11108	10569	11079	10885	10774	10270	11642	10715	11861	**12104**
13766	13246	12713	12800	12269	12708	12541	12782	12990	12384	13580	**13941**
13769	13250	12970	12835	12628	12679	13405	13177	12863	13373	13831	**15053**
8717	8733	8455	7531	7775	8516	7487	7109	8542	7496	8320	**8748**
11037	**11683**	10283	9816	9657	10018	10906	9655	10555	9331	10461	9709
10429	10291	10208	10461	10468	9873	**11619**	11594	11284	10987	11347	11410

Physical exchanges in interconnected operation [1]

The Netherlands | GWh

MM_YY	NL→BE	NL→DE	NL_UCTE_EXP	NL_III_EXP	BE→NL	DE→NL	NL_UCTE_IMP	NL_III_IMP	NL_UCTE_SLD	NL_III_SLD
	Export (-)				Import (+)				Balance	
I.99	407	28	435	0	197	1456	1653	0	1218	0
II.99	290	18	308	0	263	1171	1434	0	1126	0
III.99	318	17	335	0	381	1304	1685	0	1350	0
IV.99	293	18	311	0	459	1400	1859	0	1548	0
V.99	272	80	352	0	475	1648	2123	0	1771	0
VI.99	274	103	377	0	395	1577	1972	0	1595	0
VII.99	163	101	264	0	532	1423	1955	0	1691	0
VIII.99	134	151	285	0	707	1276	1983	0	1698	0
IX.99	149	57	206	0	511	1451	1962	0	1756	0
X.99	235	24	259	0	419	1598	2017	0	1758	0
XI.99	274	34	308	0	477	1409	1886	0	1578	0
XII.99	279	34	313	0	432	1445	1877	0	1564	0
1999	**3088**	**665**	**3753**	**0**	**5248**	**17158**	**22406**	**0**	**18653**	**0**
I.03	406	91	497	0	448	1453	1901	0	1404	0
II.03	249	101	350	0	496	899	1395	0	1045	0
III.03	301	13	314	0	462	1178	1640	0	1326	0
IV.03	269	20	289	0	408	1235	1643	0	1354	0
V.03	239	16	255	0	443	1308	1751	0	1496	0
VI.03	167	63	230	0	742	1056	1798	0	1568	0
VII.03	133	174	307	0	685	698	1383	0	1076	0
VIII.03	104	66	170	0	702	856	1558	0	1388	0
IX.03	198	32	230	0	508	1048	1556	0	1326	0
X.03	435	4	439	0	226	1836	2062	0	1623	0
XI.03	302	3	305	0	358	1652	2010	0	1705	0
XII.03	409	18	427	0	301	1819	2120	0	1693	0
2003	**3212**	**601**	**3813**	**0**	**5779**	**15038**	**20817**	**0**	**17004**	**0**
I.04	406	6	412	0	374	1611	1985	0	1573	0
II.04	602	1	603	0	131	1833	1964	0	1361	0
III.04	598	15	613	0	134	1883	2017	0	1404	0
IV.04	480	3	483	0	239	1737	1976	0	1493	0
V.04	219	22	241	0	372	1217	1589	0	1348	0
VI.04	180	97	277	0	625	1054	1679	0	1402	0
VII.04	171	81	252	0	527	865	1392	0	1140	0
VIII.04	186	197	383	0	585	927	1512	0	1129	0
IX.04	398	108	506	0	285	1165	1450	0	944	0
X.04	351	16	367	0	251	1516	1767	0	1400	0
XI.04	461	12	473	0	352	1548	1900	0	1427	0
XII.04	581	0	581	0	178	2001	2179	0	1598	0
2004	**4633**	**558**	**5191**	**0**	**4053**	**17357**	**21410**	**0**	**16219**	**0**

[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]

Poland | GWh

MM_YY	PL→CZ	PL→DE	PL→SK	PL→UA_W	PL→BY	PL→SE	PL_UCTE_EXP	PL_III_EXP	CZ→PL	DE→PL	SK→PL	UA_W→PL	BY→PL	SE→PL	PL_UCTE_IMP	PL_III_IMP	PL_UCTE_SLD	PL_III_SLD
	Export (-)								Import (+)								Balance	
I.99	795	50	86	0	0	0	931	0	3	148	0	94	0	0	151	94	-780	94
II.99	678	30	99	0	0	0	807	0	6	142	2	69	0	0	150	69	-657	69
III.99	596	20	99	0	0	0	715	0	9	75	1	94	0	0	85	94	-630	94
IV.99	496	23	73	0	0	0	592	0	9	193	1	58	0	0	203	58	-389	58
V.99	314	20	128	0	0	0	462	0	7	156	0	38	0	0	163	38	-299	38
VI.99	361	24	83	0	0	0	468	0	7	115	0	44	0	0	122	44	-346	44
VII.99	456	17	105	0	0	0	578	0	5	188	0	45	0	0	193	45	-385	45
VIII.99	470	24	26	0	0	0	520	0	8	209	0	49	0	0	217	49	-303	49
IX.99	494	30	47	0	0	0	571	0	13	186	2	41	0	0	201	41	-370	41
X.99	666	36	163	0	0	0	865	0	7	201	0	63	0	0	208	63	-657	63
XI.99	710	81	194	0	0	0	985	0	2	113	0	64	0	0	115	64	-870	64
XII.99	742	13	175	0	0	0	930	0	3	228	0	69	0	0	231	69	-699	69
1999	**6778**	**368**	**1278**	**0**	**0**	**0**	**8424**	**0**	**79**	**1954**	**6**	**728**	**0**	**0**	**2039**	**728**	**-6385**	**728**
I.03	856	34	247	0	0	311	1137	311	5	236	0	113	95	0	241	208	-896	-103
II.03	812	43	153	0	0	284	1008	284	4	169	0	90	114	0	173	204	-835	-80
III.03	803	47	129	0	0	255	979	255	5	196	0	77	112	0	201	189	-778	-66
IV.03	790	17	231	0	0	240	1038	240	2	286	0	61	111	0	288	172	-750	-68
V.03	541	16	175	0	0	153	732	153	15	179	0	69	110	0	194	179	-538	26
VI.03	535	31	195	0	0	67	761	67	7	238	0	52	102	0	245	154	-516	87
VII.03	797	31	140	0	0	129	968	129	2	227	0	91	72	7	229	170	-739	41
VIII.03	594	8	259	0	0	261	861	261	2	246	0	50	84	0	248	134	-613	-127
IX.03	820	7	252	0	0	152	1079	152	2	207	0	75	98	0	209	173	-870	21
X.03	960	32	299	0	0	266	1291	266	7	189	0	76	99	0	196	175	-1095	-91
XI.03	921	16	311	0	0	265	1248	265	4	191	0	68	114	0	195	182	-1053	-83
XII.03	1059	3	338	0	0	259	1400	259	2	397	0	109	114	0	399	223	-1001	-36
2003	**9488**	**285**	**2729**	**0**	**0**	**2642**	**12502**	**2642**	**57**	**2761**	**0**	**931**	**1225**	**7**	**2818**	**2163**	**-9684**	**-479**
I.04	1036	6	292	0	0	291	1334	291	2	338	0	74	121	0	340	195	-994	-96
II.04	1012	2	316	0	0	283	1330	283	3	346	0	78	108	0	349	186	-981	-97
III.04	1013	44	312	0	0	273	1369	273	2	238	0	87	103	25	240	215	-1129	-58
IV.04	815	87	220	0	0	189	1122	189	6	149	0	69	97	21	155	187	-967	-2
V.04	664	11	135	0	0	169	810	169	6	221	1	80	100	20	228	200	-582	31
VI.04	447	114	96	0	0	274	657	274	12	76	4	73	98	2	92	173	-565	-101
VII.04	510	80	146	0	0	140	736	140	14	147	2	61	72	39	163	172	-573	32
VIII.04	551	36	95	0	0	291	682	291	9	185	1	76	21	0	195	97	-487	-194
IX.04	742	27	201	0	0	169	970	169	6	271	0	64	70	21	277	155	-693	-14
X.04	897	3	246	0	0	136	1146	136	9	363	0	64	70	3	372	137	-774	1
XI.04	641	32	302	0	0	102	975	102	3	324	0	46	69	0	327	115	-648	13
XII.04	826	8	263	0	0	58	1097	58	8	500	0	81	71	82	508	234	-589	176
2004	**9154**	**450**	**2624**	**0**	**0**	**2375**	**12228**	**2375**	**80**	**3158**	**8**	**853**	**1000**	**213**	**3246**	**2066**	**-8982**	**-309**

[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".

Poland

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	137790
			2003	147605
			2004	138306
Thermal nuclear net production	GWh	Σ	1999	0
			2003	0
			2004	0
Hydraulic net production	GWh	Σ	1999	4142
			2003	3145
			2004	3487
Total net electrical energy production	GWh	Σ	1999 [2]	141932
			2003 [2]	150750
			2004 [2]	141793
Total physical import / export balance [1]	GWh	Σ	1999	-4936
			2003	-10160
			2004	-9292
Consumption of pumps	GWh	Σ	1999	2867
			2003	2280
			2004	2226
National electrical consumption	GWh	Σ	1999	134129
			2003	138310
			2004	130275
National electrical consumption as percentage of total values	%∅	pond.	1999	100
			2003	100
			2004	100
Energy capability factor (hydro power)	∅	pond.	1999	-
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	15908
			2003	17174
			2004	15928
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	20128
			2003	20456
			2004	19039
Peak load on the 3rd Wednesday	MW	max.	1999	21753
			2003	22139
			2004	20937
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	21811
			2003	22285
			2004	20708

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
13454	12383	12451	10677	10202	9578	9702	9813	10208	12292	13228	13802
14338	12972	13054	11764	10685	10244	11060	11064	11417	13597	13395	14015
13577	12262	12697	11117	10401	10271	10334	10505	10708	11954	11971	12509
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
370	348	440	411	367	356	351	298	267	303	289	342
308	259	342	356	304	236	210	223	193	222	233	259
251	336	377	371	282	254	258	305	234	244	274	301
13824	12731	12891	11088	10569	9934	10053	10111	10475	12595	13517	14144
14646	13231	13396	12120	10989	10480	11270	11287	11610	13819	13628	14274
13828	12598	13074	11488	10683	10525	10592	10810	10942	12198	12245	12810
-629	-537	-478	-274	-189	-239	-273	-190	-272	-538	-747	-570
-998	-915	-843	-823	-512	-428	-698	-739	-850	-1187	-1136	-1031
-1090	-1078	-1187	-969	-552	-666	-541	-681	-707	-773	-635	-413
271	231	237	226	231	225	208	172	255	271	261	279
219	185	195	187	130	181	179	215	185	195	194	215
218	186	196	185	92	167	193	207	192	201	197	192
12924	11963	12176	10588	10149	9470	9572	9749	9948	11786	12509	13295
13429	12131	12358	11110	10347	9871	10393	10333	10575	12437	12298	13028
12520	11334	11691	10334	10039	9692	9858	9922	10043	11224	11413	12205
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
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
15563	**15908**	15337	14311	12727	11964	11620	11640	12083	14895	15655	15677
16804	**17174**	15789	14957	13177	13414	13269	13783	13817	15322	16394	16723
15928	15473	14447	13385	12648	12594	12862	12810	13241	14582	14800	15571
19387	19417	18866	17779	15866	15722	15050	15133	15583	19196	**20128**	19815
20301	**20456**	18353	17496	16821	16046	16217	16484	16858	18725	19663	20299
18948	18742	17076	15838	15755	15546	15793	15883	16024	17660	18361	**19039**
20837	20875	20301	18494	16080	15874	15082	15992	17405	20536	**21753**	21585
21394	21313	20028	18510	16833	16298	16435	16796	18387	20165	21307	**22139**
20186	19878	18670	17183	16092	15641	15841	16546	17526	19535	19920	**20937**
21271	20849	20257	18808	16428	16716	15991	16140	16359	20866	**21811**	21446
22283	**22285**	20274	19326	18011	17313	17844	18548	18670	20716	21654	22116
20708	20443	18801	17667	17026	16945	17253	16585	17626	18741	19762	20675

Portugal

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	29653
			2003	24598
			2004	28744
Thermal nuclear net production	GWh	Σ	1999	0
			2003	0
			2004	0
Hydraulic net production	GWh	Σ	1999	7492
			2003	16169
			2004	10686
Total net electrical energy production	GWh	Σ	1999 [2]	37145
			2003 [2]	40767
			2004 [2]	39430
Total physical import / export balance [1]	GWh	Σ	1999	-852
			2003	2797
			2004	6481
Consumption of pumps	GWh	Σ	1999	491
			2003	486
			2004	407
National electrical consumption	GWh	Σ	1999	35802
			2003	43078
			2004	45504
National electrical consumption as percentage of total values	%∅	pond.	1999	92
			2003	92
			2004	95
Energy capability factor (hydro power)	∅	pond.	1999	0,68
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	3117
			2003	4483
			2004	4746
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	5592
			2003	7163
			2004	6941
Peak load on the 3rd Wednesday	MW	max.	1999	5965
			2003	8046
			2004	7845
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	5405
			2003	7100
			2004	6940

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
2634	2484	2592	2497	2540	2570	2711	2576	2375	2165	2228	2281
1341	1614	1488	1447	1927	2595	2773	2608	2598	2462	2002	1743
2213	1851	2326	1939	2173	2498	2787	2388	2515	2380	2542	3132
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
561	422	530	528	653	528	474	269	412	860	1094	1161
2607	1903	1957	1674	1246	668	619	422	588	865	1529	2091
1482	1487	1143	862	826	582	481	497	678	827	1042	779
3195	2906	3122	3025	3193	3098	3185	2845	2787	3025	3322	3442
3948	3517	3445	3121	3173	3263	3392	3030	3186	3327	3531	3834
3695	3338	3469	2801	2999	3080	3268	2885	3193	3207	3584	3911
131	45	-4	-253	-348	-275	-50	-46	183	-24	-157	-54
95	102	115	178	279	174	329	424	351	362	202	186
434	414	523	743	615	621	664	643	473	542	383	426
41	64	53	25	3	6	30	50	55	56	59	49
12	38	39	29	36	57	65	62	33	51	45	19
36	14	24	25	27	49	74	53	46	28	2	29
3285	2887	3065	2747	2842	2817	3105	2749	2915	2945	3106	3339
4031	3581	3521	3270	3416	3380	3656	3392	3504	3638	3688	4001
4093	3738	3968	3519	3587	3652	3858	3475	3620	3721	3965	4308
92	92	92	92	92	92	92	92	92	92	92	92
92	92	92	92	92	92	92	92	92	92	92	92
95	95	95	95	95	95	95	95	95	95	95	95
0,40	0,24	0,47	0,62	0,79	0,70	0,66	0,50	1,15	1,60	0,90	0,95
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
3084	2721	2768	2680	2592	2974	**3117**	2478	2893	2620	2884	2937
4483	4176	3791	3769	3758	3999	3949	3637	3946	3828	4020	4461
4511	4261	4082	4067	4010	4291	4324	3796	4026	4006	4482	**4746**
5592	5371	4751	4832	4717	4966	5247	3984	4857	4874	5146	5477
7163	6773	5814	5734	5804	6082	5833	4939	5988	5810	6013	6753
6941	6633	6118	6173	6069	6390	6333	5161	5888	6146	6541	6922
5947	5544	5004	4850	4785	5087	5342	4089	4939	4966	5630	**5965**
8046	7373	6298	5900	6085	6453	6048	5283	6355	6258	6803	7534
7671	7289	6706	6513	6338	6680	6649	5489	6157	6617	7489	**7845**
4773	4894	4646	**5405**	5378	5371	5115	4019	4276	4876	5294	5371
7100	6954	5064	4999	5123	6008	5563	4061	5225	5516	5553	6159
6207	5969	5695	5238	5300	5599	5926	4271	5427	5323	6535	**6940**

Physical exchanges in interconnected operation [1]

Portugal | GWh

MM_YY	PT→ES	PT_UCTE_EXP	PT_III_EXP	ES→PT	PT_UCTE_IMP	PT_III_IMP	PT_UCTE_SLD	PT_III_SLD
	Export (-)			Import (+)			Balance	
I.99	337	337	0	454	454	0	117	0
II.99	323	323	0	361	361	0	38	0
III.99	397	397	0	380	380	0	-17	0
IV.99	479	479	0	226	226	0	-253	0
V.99	482	482	0	141	141	0	-341	0
VI.99	480	480	0	200	200	0	-280	0
VII.99	449	449	0	386	386	0	-63	0
VIII.99	194	194	0	139	139	0	-55	0
IX.99	251	251	0	425	425	0	174	0
X.99	303	303	0	270	270	0	-33	0
XI.99	383	383	0	220	220	0	-163	0
XII.99	375	375	0	311	311	0	-64	0
1999	**4453**	**4453**	**0**	**3513**	**3513**	**0**	**-940**	**0**
I.03	362	362	0	443	443	0	81	0
II.03	297	297	0	388	388	0	91	0
III.03	279	279	0	383	383	0	104	0
IV.03	250	250	0	418	418	0	168	0
V.03	317	317	0	586	586	0	269	0
VI.03	308	308	0	470	470	0	162	0
VII.03	274	274	0	590	590	0	316	0
VIII.03	151	151	0	565	565	0	414	0
IX.03	203	203	0	544	544	0	341	0
X.03	171	171	0	523	523	0	352	0
XI.03	214	214	0	405	405	0	191	0
XII.03	281	281	0	455	455	0	174	0
2003	**3107**	**3107**	**0**	**5770**	**5770**	**0**	**2663**	**0**
I.04	268	268	0	689	689	0	421	0
II.04	215	215	0	618	618	0	403	0
III.04	188	188	0	701	701	0	513	0
IV.04	114	114	0	850	850	0	736	0
V.04	143	143	0	754	754	0	611	0
VI.04	118	118	0	733	733	0	615	0
VII.04	146	146	0	805	805	0	659	0
VIII.04	115	115	0	753	753	0	638	0
IX.04	158	158	0	625	625	0	467	0
X.04	190	190	0	727	727	0	537	0
XI.04	217	217	0	595	595	0	378	0
XII.04	258	258	0	673	673	0	415	0
2004	**2130**	**2130**	**0**	**8523**	**8523**	**0**	**6393**	**0**

[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]

Romania | GWh

MM_YY	RO→BG	RO→CS	RO→HU	RO→UA_W	RO→MD	RO_UCTE_EXP	RO_III_EXP	BG→RO	CS→RO	HU→RO	UA_W→RO	MD→RO	RO_UCTE_IMP	RO_III_IMP	RO_UCTE_SLD	RO_III_SLD
	Export (-)							Import (+)							Balance	
I.99	n.a.	167	0	n.a.	n.a.	167	n.a.	n.a.	1	0	n.a.	n.a.	1	n.a.	-166	n.a.
II.99	n.a.	111	0	n.a.	n.a.	111	n.a.	n.a.	2	0	n.a.	n.a.	2	n.a.	-109	n.a.
III.99	n.a.	3	0	n.a.	n.a.	3	n.a.	n.a.	43	0	n.a.	n.a.	43	n.a.	40	n.a.
IV.99	n.a.	0	0	n.a.	n.a.	0	n.a.	n.a.	119	0	n.a.	n.a.	119	n.a.	119	n.a.
V.99	n.a.	14	0	n.a.	n.a.	14	n.a.	n.a.	204	0	n.a.	n.a.	204	n.a.	190	n.a.
VI.99	n.a.	21	0	n.a.	n.a.	21	n.a.	n.a.	274	0	n.a.	n.a.	274	n.a.	253	n.a.
VII.99	n.a.	2	0	n.a.	n.a.	2	n.a.	n.a.	102	0	n.a.	n.a.	102	n.a.	100	n.a.
VIII.99	n.a.	9	0	n.a.	n.a.	9	n.a.	n.a.	50	0	n.a.	n.a.	50	n.a.	41	n.a.
IX.99	n.a.	27	0	n.a.	n.a.	27	n.a.	n.a.	61	0	n.a.	n.a.	61	n.a.	34	n.a.
X.99	n.a.	26	0	n.a.	n.a.	26	n.a.	n.a.	41	0	n.a.	n.a.	41	n.a.	15	n.a.
XI.99	n.a.	56	0	n.a.	n.a.	56	n.a.	n.a.	30	0	n.a.	n.a.	30	n.a.	-26	n.a.
XII.99	n.a.	40	0	n.a.	n.a.	40	n.a.	n.a.	43	0	n.a.	n.a.	43	n.a.	3	n.a.
1999	**n.a.**	**476**	**0**	**n.a.**	**n.a.**	**476**	**n.a.**	**n.a.**	**970**	**0**	**n.a.**	**n.a.**	**970**	**n.a.**	**494**	**n.a.**
I.03	177	156	0	0	0	333	0	5	2	31	0	0	38	0	-295	0
II.03	175	106	0	0	0	281	0	4	1	30	0	0	35	0	-246	0
III.03	181	79	0	0	0	260	0	7	7	29	0	0	43	0	-217	0
IV.03	158	56	0	0	0	214	0	4	9	26	0	0	39	0	-175	0
V.03	193	100	0	0	0	293	0	13	5	0	0	0	18	0	-275	0
VI.03	28	214	0	0	0	242	0	55	0	0	0	0	55	0	-187	0
VII.03	81	176	0	0	0	257	0	40	0	0	0	0	40	0	-217	0
VIII.03	47	228	0	0	0	275	0	97	0	0	0	0	97	0	-178	0
IX.03	20	126	0	0	0	146	0	191	3	0	0	29	194	29	48	29
X.03	5	98	0	0	0	103	0	122	2	0	0	21	124	21	21	21
XI.03	77	229	0	0	0	306	0	102	0	0	0	30	102	30	-204	30
XII.03	51	284	0	0	0	335	0	49	0	0	0	40	49	40	-286	40
2003	**1193**	**1852**	**0**	**0**	**0**	**3045**	**0**	**0**	**29**	**116**	**0**	**120**	**834**	**120**	**-2211**	**120**
I.04	51	254	0	0	0	305	0	48	0	0	0	40	48	40	-257	40
II.04	62	186	0	0	0	248	0	36	0	0	0	29	36	29	-212	29
III.04	17	139	0	0	0	156	0	66	0	0	0	27	66	27	-90	27
IV.04	8	109	0	0	0	117	0	111	2	0	0	25	113	25	-4	25
V.04	27	51	0	0	0	78	0	99	8	0	0	33	107	33	29	33
VI.04	65	69	0	0	0	134	0	113	5	0	0	33	118	33	-16	33
VII.04	94	138	0	0	0	232	0	89	2	0	0	33	91	33	-141	33
VIII.04	55	171	0	0	0	226	0	111	0	0	0	62	111	62	-115	62
IX.04	92	196	0	0	0	288	0	144	0	0	0	73	144	73	-144	73
X.04	92	190	37	0	0	319	0	44	5	2	78	60	51	138	-268	138
XI.04	128	239	87	1	0	454	1	69	0	12	78	0	81	78	-373	77
XII.04	41	272	70	0	0	383	0	59	0	17	126	9	76	135	-307	135
2004	**732**	**2014**	**194**	**1**	**0**	**2940**	**1**	**989**	**22**	**31**	**282**	**424**	**1042**	**706**	**-1898**	**705**

[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".

Romania

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	n.a.
			2003	33952
			2004	30512
Thermal nuclear net production	GWh	Σ	1999	n.a.
			2003	4564
			2004	5146
Hydraulic net production	GWh	Σ	1999	n.a.
			2003	13009
			2004	16276
Total net electrical energy production	GWh	Σ	1999	n.a.
			2003 [2]	51525
			2004 [2]	51934
Total physical import / export balance [1]	GWh	Σ	1999	n.a.
			2003	-2085
			2004	-1189
Consumption of pumps	GWh	Σ	1999	n.a.
			2003	0
			2004	0
National electrical consumption	GWh	Σ	1999	n.a.
			2003	49440
			2004	50745
National electrical consumption as percentage of total values	%	∅ pond.	1999	n.a.
			2003	100
			2004	100
Energy capability factor (hydro power)		∅ pond.	1999	n.a.
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	5764
			2004	5982
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	7135
			2004	7548
Peak load on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	7542
			2004	8028
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	n.a.
			2003	7135
			2004	7548

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

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.
3025	2926	2897	2199	2252	2898	2921	2786	2803	2811	3127	3307
3463	3045	2682	1868	1772	1909	2482	2195	2841	2578	2795	2882
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
491	445	467	472	249	0	438	347	168	522	475	490
488	456	439	466	489	470	480	425	0	474	471	488
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1330	1152	1335	1560	1599	1145	853	721	576	889	937	912
951	1082	1455	1592	1675	1415	1187	1312	1070	1311	1601	1625
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4846	4523	4699	4231	4100	4043	4212	3854	3547	4222	4539	4709
4902	4583	4576	3926	3936	3794	4149	3932	3911	4363	4867	4995
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-295	-248	-217	-176	-275	-188	-217	-166	77	42	-174	-248
-217	-183	-62	22	62	17	-108	-52	-71	-130	-296	-171
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.
4551	4275	4482	4055	3825	3855	3995	3688	3624	4264	4365	4461
4685	4400	4514	3948	3998	3811	4041	3880	3840	4233	4571	4824
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5746	5764	5583	4859	4805	4898	4742	4336	4539	5006	5306	5692
5697	5738	5556	5140	5005	4869	4925	4817	4763	5333	5608	**5982**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7006	**7135**	6793	5859	5836	6027	5802	5697	5512	6253	6702	7000
7086	7050	6577	6042	6156	6003	6331	5830	5815	6424	6944	**7548**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7265	7339	7168	5984	5962	6228	6010	5679	5885	6860	7109	**7542**
7310	7268	6972	6411	6318	6017	6439	6019	6109	6965	7668	**8028**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7006	**7135**	6793	5859	5836	6027	5802	5679	5512	6253	6702	7000
7086	7050	6577	6042	6156	6003	6331	5830	5815	6424	6944	**7548**

Slovenia

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	3915
			2003	4580
			2004	4649
Thermal nuclear net production	GWh	Σ	1999	4485
			2003	4957
			2004	5203
Hydraulic net production	GWh	Σ	1999	3412
			2003	2687
			2004	3608
Total net electrical energy production	GWh	Σ	1999	11812
			2003	12224
			2004	13460
Total physical import / export balance [1]	GWh	Σ	1999	-1349
			2003	170
			2004	-797
Consumption of pumps	GWh	Σ	1999	0
			2003	0
			2004	0
National electrical consumption	GWh	Σ	1999	10463
			2003	12394
			2004	12663
National electrical consumption as percentage of total values	%	∅ pond.	1999	96
			2003	95
			2004	95
Energy capability factor (hydro power)		∅ pond.	1999	0,98
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	1018
			2003	1237
			2004	1300
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	1582
			2003	1826
			2004	1868
Peak load on the 3rd Wednesday	MW	max.	1999	1667
			2003	1920
			2004	1947
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	1760
			2003	1890
			2004	2103

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
375	332	393	420	305	191	198	215	266	337	431	452
443	470	463	378	424	406	346	273	321	400	267	389
462	438	444	361	333	296	344	307	433	415	385	431
465	419	415	0	103	369	453	449	438	463	448	463
488	449	492	468	118	286	423	362	453	488	437	493
501	467	499	463	490	459	472	432	40	422	482	476
161	132	217	281	401	357	340	358	326	352	256	231
238	158	154	190	282	266	225	172	184	234	326	258
202	167	259	342	381	410	422	276	275	304	340	230
1001	883	1025	701	809	917	991	1022	1030	1152	1135	1146
1169	1077	1109	1036	824	958	994	807	958	1122	1030	1140
1165	1072	1202	1166	1204	1165	1238	1015	748	1141	1207	1137
-64	-51	-121	109	27	-88	-148	-217	-172	-247	-204	-173
-66	-52	-38	-38	161	52	26	160	-46	-42	46	7
-66	-38	-58	-151	-196	-170	-171	-30	252	-56	-103	-10
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
937	832	904	810	836	829	843	805	858	905	931	973
1103	1025	1071	998	985	1010	1020	967	912	1080	1076	1147
1099	1034	1144	1015	1008	995	1067	985	1000	1085	1104	1127
100	100	100	95	95	95	95	95	95	95	95	95
95	95	95	95	95	95	95	95	95	95	95	95
95	95	95	95	95	95	95	95	95	95	95	95
0,91	0,89	0,99	0,97	1,04	0,86	0,87	1,06	1,16	1,23	0,84	0,97
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
987	951	954	929	921	961	920	879	964	981	**1018**	1003
1237	1230	1152	1141	1083	1204	1112	1147	1091	1147	1196	1229
1162	1200	1226	1118	1112	1124	1151	1144	1092	1181	1216	**1300**
1526	1527	1464	1401	1327	1424	1339	1326	1406	1496	**1582**	1568
1799	1773	1653	1640	1642	1703	1655	1631	1594	1681	1708	**1826**
1747	1768	1710	1674	1623	1637	1675	1631	1647	1734	1822	**1868**
1602	1550	1551	1460	1390	1451	1397	1356	1502	1631	**1667**	1660
1855	1830	1770	1692	1667	1749	1725	1686	1663	1750	1810	**1920**
1815	1830	1819	1727	1667	1683	1745	1675	1702	1846	**1947**	1930
1520	1449	1651	1275	1204	933	1397	1572	1490	1643	1725	**1760**
1762	1767	**1890**	1713	1117	1710	1643	1277	1633	1727	1590	1800
1761	1792	1658	**2103**	1952	1814	1799	1508	1457	1928	1898	1747

Physical exchanges in interconnected operation [1]

Slovenia | **GWh**

MM_YY	SI→AT	SI→HR	SI→IT	SI_UCTE_EXP	SI_III_EXP	AT→SI	HR→SI	IT→SI	SI_UCTE_IMP	SI_III_IMP	SI_UCTE_SLD	SI_III_SLD
	Export (-)					Import (+)					Balance	
I.99	0	121	262	383	0	311	0	8	319	0	-64	0
II.99	0	136	208	344	0	279	0	14	293	0	-51	0
III.99	0	164	232	396	0	267	0	8	275	0	-121	0
IV.99	0	0	270	270	0	351	26	2	379	0	109	0
V.99	0	14	341	355	0	382	0	0	382	0	27	0
VI.99	0	87	306	393	0	303	0	2	305	0	-88	0
VII.99	1	147	358	506	0	358	0	0	358	0	-148	0
VIII.99	0	207	226	433	0	215	0	1	216	0	-217	0
IX.99	0	190	295	485	0	313	0	0	313	0	-172	0
X.99	0	251	344	595	0	348	0	0	348	0	-247	0
XI.99	0	283	211	494	0	288	0	2	290	0	-204	0
XII.99	4	0	353	357	0	140	43	1	184	0	-173	0
1999	**5**	**1600**	**3406**	**5011**	**0**	**3555**	**69**	**38**	**3662**	**0**	**-1349**	**0**
I.03	20	152	564	736	0	231	439	0	670	0	-66	0
II.03	32	133	438	603	0	197	354	0	551	0	-52	0
III.03	34	144	468	646	0	240	367	1	608	0	-38	0
IV.03	5	152	494	651	0	272	341	0	613	0	-38	0
V.03	0	87	381	468	0	344	285	0	629	0	161	0
VI.03	0	202	402	604	0	392	268	0	660	0	56	0
VII.03	9	220	324	553	0	323	257	0	580	0	27	0
VIII.03	26	144	94	264	0	219	173	33	425	0	161	0
IX.03	28	205	178	411	0	180	174	9	363	0	-48	0
X.03	3	205	438	646	0	299	306	0	605	0	-41	0
XI.03	31	99	369	499	0	184	336	0	520	0	21	0
XII.03	11	133	398	542	0	185	365	0	550	0	8	0
2003	**199**	**1876**	**4548**	**6623**	**0**	**3066**	**3665**	**43**	**6774**	**0**	**151**	**0**
I.04	13	126	425	564	0	136	361	1	498	0	-66	0
II.04	12	96	530	638	0	161	442	0	603	0	-35	0
III.04	67	35	478	580	0	165	363	0	528	0	-52	0
IV.04	13	271	571	855	0	168	539	0	707	0	-148	0
V.04	24	245	444	713	0	158	363	0	521	0	-192	0
VI.04	5	234	516	755	0	206	384	0	590	0	-165	0
VII.04	2	248	517	767	0	210	388	0	598	0	-169	0
VIII.04	18	233	228	479	0	145	304	2	451	0	-28	0
IX.04	2	36	445	483	0	224	515	0	739	0	256	0
X.04	14	116	544	674	0	139	484	0	623	0	-51	0
XI.04	16	87	718	821	0	174	547	0	721	0	-100	0
XII.04	48	58	764	870	0	116	747	0	863	0	-7	0
2004	**234**	**1785**	**6180**	**8199**	**0**	**2002**	**5437**	**3**	**7442**	**0**	**-757**	**0**

[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	SK_UCTE_EXP	SK_III_EXP	CZ→SK	HU→SK	PL→SK	UA_W→SK	SK_UCTE_IMP	SK_III_IMP	SK_UCTE_SLD	SK_III_SLD
	Export (-)						Import (+)						Balance	
I.99	97	257	0	0	354	0	195	0	86	99	281	99	-73	99
II.99	108	223	2	0	333	0	167	0	99	85	266	85	-67	85
III.99	126	296	1	0	423	0	165	1	99	158	265	158	-158	158
IV.99	124	287	1	0	412	0	204	1	73	84	278	84	-134	84
V.99	121	240	0	0	361	0	134	5	128	27	267	27	-94	27
VI.99	152	305	0	0	457	0	175	0	83	86	258	86	-199	86
VII.99	197	341	0	3	538	3	281	0	105	58	386	58	-152	55
VIII.99	138	382	0	1	520	1	284	0	26	96	310	96	-210	95
IX.99	144	263	2	9	409	9	204	0	47	54	251	54	-158	45
X.99	110	248	0	3	358	3	280	0	163	20	443	20	85	17
XI.99	93	217	0	5	310	5	285	4	194	65	483	65	173	60
XII.99	117	460	0	19	577	19	479	0	175	73	654	73	77	54
1999	**1527**	**3519**	**6**	**40**	**5052**	**40**	**2853**	**11**	**1278**	**905**	**4142**	**905**	**-910**	**865**
I.03	85	697	0	99	782	99	308	0	247	5	555	5	-227	-94
II.03	91	716	0	106	807	106	318	0	153	5	471	5	-336	-101
III.03	20	745	0	91	765	91	524	0	129	4	653	4	-112	-87
IV.03	41	741	0	107	782	107	514	0	231	6	745	6	-37	-101
V.03	36	766	0	87	802	87	353	0	175	4	528	4	-274	-83
VI.03	36	763	0	54	799	54	431	0	195	4	626	4	-173	-50
VII.03	42	843	0	44	885	44	787	0	140	23	927	23	42	-21
VIII.03	52	726	0	163	778	163	539	0	259	4	798	4	20	-159
IX.03	1	772	0	69	773	69	574	0	252	4	826	4	53	-65
X.03	25	613	0	151	638	151	432	0	299	5	731	5	93	-146
XI.03	74	804	0	160	878	160	489	0	311	5	800	5	-78	-155
XII.03	38	862	0	159	900	159	550	0	338	6	888	6	-12	-153
2003	**541**	**9048**	**0**	**1290**	**9589**	**1290**	**5819**	**0**	**2729**	**75**	**8548**	**75**	**-1041**	**-1215**
I.04	39	789	0	151	828	151	578	0	292	5	870	5	42	-146
II.04	41	806	0	149	847	149	554	0	316	5	870	5	23	-144
III.04	39	814	0	116	853	116	551	0	312	5	863	5	10	-111
IV.04	31	670	0	111	701	111	541	0	220	4	761	4	60	-107
V.04	65	728	1	51	794	51	409	0	135	9	544	9	-250	-42
VI.04	52	549	4	46	605	46	235	0	96	5	331	5	-274	-41
VII.04	34	671	2	86	707	86	510	0	146	9	656	9	-51	-77
VIII.04	38	632	1	109	671	109	580	0	95	5	675	5	4	-104
IX.04	3	649	0	201	652	201	593	0	201	3	794	3	142	-198
X.04	21	739	0	201	760	201	558	0	246	4	804	4	44	-197
XI.04	53	690	0	162	743	162	405	0	302	5	707	5	-36	-157
XII.04	47	809	0	192	856	192	531	0	263	5	794	5	-62	-187
2004	**463**	**8546**	**8**	**1575**	**9017**	**1575**	**6045**	**0**	**2624**	**64**	**8669**	**64**	**-348**	**-1511**

[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 conventional net production	GWh	Σ	1999	9086
			2003	8898
			2004	8620
Thermal nuclear net production	GWh	Σ	1999	12108
			2003	16466
			2004	15651
Hydraulic net production	GWh	Σ	1999	4796
			2003	3536
			2004	4041
Total net electrical energy production	GWh	Σ	1999 [2]	25990
			2003 [2]	28900
			2004 [2]	28312
Total physical import / export balance [1]	GWh	Σ	1999	-42
			2003	-2254
			2004	-1862
Consumption of pumps	GWh	Σ	1999	293
			2003	262
			2004	147
National electrical consumption	GWh	Σ	1999	25655
			2003	26384
			2004	26303
National electrical consumption as percentage of total values	%	∅ pond.	1999	100
			2003	100
			2004	100
Energy capability factor (hydro power)		∅ pond.	1999	-
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	3523
			2003	3648
			2004	3410
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	3994
			2003	4007
			2004	4099
Peak load on the 3rd Wednesday	MW	max.	1999	4058
			2003	4194
			2004	4323
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	3922
			2003	4672
			2004	4172

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1082	935	689	531	523	486	458	585	598	962	1114	1123
899	879	883	755	614	542	592	649	540	796	843	906
849	772	806	749	700	580	606	542	602	754	821	839
1094	1028	1107	1069	931	1013	997	1034	1089	857	849	1040
1545	1604	1341	1148	1267	1248	1099	1278	1271	1404	1616	1645
1588	1384	1291	953	1230	1219	1119	1240	1213	1370	1424	1620
345	379	585	491	570	464	524	336	261	287	245	309
500	329	389	355	410	330	246	171	178	265	179	184
277	371	438	409	362	432	367	272	251	260	290	312
2521	2342	2381	2091	2024	1963	1979	1955	1948	2106	2208	2472
2944	2812	2613	2258	2291	2120	1937	2098	1989	2465	2638	2735
2714	2527	2535	2111	2292	2231	2092	2054	2066	2384	2535	2771
26	18	0	-50	-66	-113	-97	-114	-113	102	233	132
-323	-437	-199	-138	-358	-222	22	-139	-13	-52	-231	-164
-104	-120	-101	-48	-291	-316	-129	-99	-56	-154	-193	-251
27	18	24	17	16	22	26	24	33	31	31	24
18	8	13	12	17	15	23	31	30	31	30	34
19	13	17	9	3	5	5	11	17	14	17	17
2520	2342	2357	2024	1942	1828	1856	1817	1802	2177	2410	2580
2603	2367	2401	2108	1916	1883	1936	1928	1946	2382	2377	2537
2591	2394	2417	2054	1998	1910	1958	1944	1993	2216	2325	2503
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
-	-	1,14	1,12	1,23	-	-	-	-	-	0,64	0,89
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
3459	**3523**	3351	2981	2654	2463	2335	2278	2382	3077	3359	3287
3581	**3648**	3211	2863	2622	2576	2537	2437	2583	3060	3221	3461
3410	3361	2997	2776	2583	2596	2661	2473	2722	2953	3161	3174
3994	3934	3560	3314	3040	2965	2775	2870	2776	3510	3794	3787
3925	**4007**	3681	3270	3234	3090	3059	3075	3178	3609	3726	3928
3862	3856	3395	3194	3151	3143	3153	3040	3275	3567	3684	**4099**
4049	4052	3888	3459	3222	3048	2848	2917	2964	3690	3990	**4058**
3984	4166	3833	3456	3278	3136	3191	3141	3380	3832	3953	**4194**
4167	4056	3727	3305	3219	3192	3197	3196	3479	3775	4004	**4323**
3922	3860	3530	3398	3172	3222	2926	3034	3081	3143	3613	3463
4672	4578	3758	3367	3687	3380	3039	3363	3246	3621	3938	4066
3991	3924	3507	3111	3421	3420	3196	3068	3122	3623	3624	**4172**

Denmark West

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	n.a.
			2003	n.a.
			2004	24247
Thermal nuclear net production	GWh	Σ	1999	n.a.
			2003	n.a.
			2004	0
Hydraulic net production	GWh	Σ	1999	n.a.
			2003	n.a.
			2004	24
Total net electrical energy production	GWh	Σ	1999	n.a.
			2003	n.a.
			2004 [2]	24271
Total physical import / export balance [1]	GWh	Σ	1999	n.a.
			2003	n.a.
			2004	-3419
Consumption of pumps	GWh	Σ	1999	n.a.
			2003	n.a.
			2004	0
National electrical consumption	GWh	Σ	1999	n.a.
			2003	n.a.
			2004	20852
National electrical consumption as percentage of total values	%	∅ pond.	1999	n.a.
			2003	n.a.
			2004	99
Energy capability factor (hydro power)		∅ pond.	1999	n.a.
			2003	n.a.
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	n.a.
			2004	2128
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	n.a.
			2004	3449
Peak load on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	n.a.
			2004	3553
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	n.a.
			2003	n.a.
			2004	5411

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

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.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2620	2394	2547	1871	1649	1651	1368	1431	1676	2032	2419	2589
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
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.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	3	3	2	2	1	1	1	2	2	3	3
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2621	2397	2550	1873	1651	1652	1369	1432	1678	2034	2422	2592
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-651	-618	-692	-246	-43	-14	104	267	-10	-264	-558	-694
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
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.
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	1779	1858	1627	1608	1638	1473	1699	1668	1770	1864	1898
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
99	99	99	99	99	99	99	99	99	99	99	99
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2128	1969	1874	1827	1870	1850	1498	1782	1714	1865	1937	2025
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3449	3214	3062	3037	2980	2898	2458	3041	2915	3014	3308	3445
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3553	3262	3062	3037	2980	2898	2458	3041	2915	3155	3371	3517
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3772	3698	4649	3026	4041	4371	2315	2360	4289	4318	3211	**5411**

Physical exchanges in interconnected operation [1]

Denmark West | GWh

MM_YY	DK_W→DE	DK_W→NO	DK_W→SE	DK_W_UCTE_EXP	DK_W_III_EXP	DE→DK_W	NO→DK_W	SE→DK_W	DK_W_UCTE_IMP	DK_W_III_IMP	DK_W_UCTE_SLD	DK_W_III_SLD
	Export (-)					Import (+)					Balance	
I.99	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.99	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.99	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.99	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.99	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.99	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.99	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.99	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.99	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.99	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.99	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.99	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1999	**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.03	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.03	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.03	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.03	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.03	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.03	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.03	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.03	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.03	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.03	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.03	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.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2003	**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.04	394	383	123	394	506	109	117	24	109	141	-285	-365
II.04	343	385	118	343	503	134	68	27	134	95	-209	-408
III.04	461	376	84	461	460	96	110	24	96	134	-365	-326
IV.04	251	426	22	251	448	218	89	145	218	234	-33	-214
V.04	261	316	57	261	373	286	170	135	286	305	25	-68
VI.04	212	288	58	212	346	337	129	79	337	208	125	-138
VII.04	196	222	1	196	223	161	116	247	161	363	-35	140
VIII.04	167	194	30	167	224	304	206	149	304	355	137	131
IX.04	346	152	11	346	163	182	199	118	182	317	-164	154
X.04	445	309	13	445	322	171	124	208	171	332	-274	10
XI.04	415	392	50	415	442	148	56	95	148	151	-267	-291
XII.04	551	337	70	551	407	67	98	98	67	196	-484	-211
2004	**4042**	**3780**	**637**	**4042**	**4417**	**2213**	**1482**	**1349**	**2213**	**2831**	**-1829**	**-1586**

[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]

Ukraine West | GWh

MM_YY	UA_W→HU	UA_W→PL	UA_W→RO	UA_W→SK	UA_W_UCTE_EXP	UA_W_III_EXP	HU→UA_W	PL→UA_W	RO→UA_W	SK→UA_W	UA_W_UCTE_IMP	UA_W_III_IMP	UA_W_UCTE_SLD	UA_W_III_SLD
	Export (-)						Import (+)						Balance	
I.99	0	94	n.a.	99	193	n.a.	0	0	n.a.	0	0	n.a.	-193	n.a.
II.99	41	69	n.a.	85	110	n.a.	3	0	n.a.	0	3	n.a.	-107	n.a.
III.99	4	94	n.a.	158	98	n.a.	46	0	n.a.	0	46	n.a.	-52	n.a.
IV.99	13	58	n.a.	84	71	n.a.	11	0	n.a.	0	11	n.a.	-60	n.a.
V.99	9	38	n.a.	27	47	n.a.	6	0	n.a.	0	6	n.a.	-41	n.a.
VI.99	45	44	n.a.	86	89	n.a.	5	0	n.a.	0	5	n.a.	-84	n.a.
VII.99	79	45	n.a.	58	124	n.a.	0	0	n.a.	3	3	n.a.	-121	n.a.
VIII.99	53	49	n.a.	96	102	n.a.	2	0	n.a.	1	3	n.a.	-99	n.a.
IX.99	65	41	n.a.	54	106	n.a.	2	0	n.a.	9	11	n.a.	-95	n.a.
X.99	55	63	n.a.	20	118	n.a.	0	0	n.a.	3	3	n.a.	-115	n.a.
XI.99	127	64	n.a.	65	191	n.a.	0	0	n.a.	5	5	n.a.	-186	n.a.
XII.99	207	69	n.a.	73	276	n.a.	0	0	n.a.	19	19	n.a.	-257	n.a.
1999	**698**	**728**	**n.a.**	**905**	**1525**	**n.a.**	**75**	**0**	**n.a.**	**40**	**115**	**n.a.**	**-1410**	**n.a.**
I.03	340	113	0	5	458	0	3	0	0	99	102	0	-356	0
II.03	354	90	0	5	449	0	1	0	0	106	107	0	-342	0
III.03	353	77	0	4	434	0	2	0	0	91	93	0	-341	0
IV.03	364	61	0	6	431	0	1	0	0	107	108	0	-323	0
V.03	367	69	0	4	440	0	2	0	0	87	89	0	-351	0
VI.03	322	52	0	4	378	0	3	0	0	54	57	0	-321	0
VII.03	296	91	0	23	410	0	7	0	0	44	51	0	-359	0
VIII.03	467	50	0	4	521	0	0	0	0	163	163	0	-358	0
IX.03	350	75	0	4	429	0	4	0	0	69	73	0	-356	0
X.03	469	76	0	5	550	0	0	0	0	151	151	0	-399	0
XI.03	449	68	0	5	522	0	0	0	0	160	160	0	-362	0
XII.03	430	109	0	6	545	0	0	0	0	159	159	0	-386	0
2003	**4561**	**931**	**0**	**75**	**5567**	**0**	**23**	**0**	**0**	**1290**	**1313**	**0**	**-4254**	**0**
I.04	326	74	0	5	405	0	4	0	0	151	155	0	-250	0
II.04	427	78	0	5	510	0	1	0	0	149	150	0	-360	0
III.04	417	87	0	5	509	0	15	0	0	116	131	0	-378	0
IV.04	367	69	0	4	440	0	0	0	0	111	111	0	-329	0
V.04	336	80	0	9	425	0	0	0	0	51	51	0	-374	0
VI.04	316	73	0	5	394	0	0	0	0	46	46	0	-348	0
VII.04	346	61	0	9	416	0	0	0	0	86	86	0	-330	0
VIII.04	401	76	0	5	482	0	0	0	0	109	109	0	-373	0
IX.04	484	64	0	3	551	0	0	0	0	201	201	0	-350	0
X.04	421	64	78	4	567	0	0	0	0	201	201	0	-366	0
XI.04	370	46	78	5	499	0	3	0	1	162	166	0	-333	0
XII.04	362	81	126	5	574	0	3	0	0	192	195	0	-379	0
2004	**4573**	**853**	**282**	**64**	**5772**	**0**	**26**	**0**	**1**	**1575**	**1602**	**0**	**-4170**	**0**

[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".

Ukraine West

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1999	n.a.
			2003	7308
			2004	7547
Thermal nuclear net production	GWh	Σ	1999	n.a.
			2003	0
			2004	0
Hydraulic net production	GWh	Σ	1999	n.a.
			2003	97
			2004	141
Total net electrical energy production	GWh	Σ	1999	n.a.
			2003 [2]	7405
			2004 [2]	7688
Total physical import / export balance [1]	GWh	Σ	1999	n.a.
			2003	-3271
			2004	-3262
Consumption of pumps	GWh	Σ	1999	n.a.
			2003	0
			2004	0
National electrical consumption	GWh	Σ	1999	n.a.
			2003	4134
			2004	4426
National electrical consumption as percentage of total values	%	∅ pond.	1999	n.a.
			2003	100
			2004	100
Energy capability factor (hydro power)		∅ pond.	1999	n.a.
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	706
			2004	680
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	841
			2004	866
Peak load on the 3rd Wednesday	MW	max.	1999	n.a.
			2003	943
			2004	975
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	n.a.
			2003	1226
			2004	1375

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

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.
711	674	664	580	483	514	531	565	558	671	656	701
646	708	692	572	591	548	559	541	597	659	684	750
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.
5	3	9	17	14	3	6	2	2	15	16	5
4	10	14	19	18	9	7	12	4	14	14	16
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
716	677	673	597	497	517	537	567	560	686	672	706
650	718	706	591	609	557	566	553	601	673	698	766
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-238	-247	-261	-258	-277	-267	-266	-303	-277	-317	-289	-271
-170	-277	-286	-255	-290	-271	-265	-294	-282	-298	-281	-293
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.
478	430	412	339	220	250	271	264	283	369	383	435
480	441	420	336	319	286	301	259	319	375	417	473
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
706	675	590	522	302	386	390	395	403	523	557	588
660	**680**	575	462	462	407	435	382	456	556	606	678
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
841	791	698	593	430	487	502	496	490	599	734	718
779	805	692	549	584	573	575	506	557	634	770	**866**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
943	918	816	731	493	505	546	596	642	775	813	851
919	939	877	702	684	600	613	575	702	807	918	**975**
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1226	1216	1123	975	888	859	912	958	949	1080	1183	1182
1293	1310	1204	977	1098	1087	1078	1017	1066	1136	1280	**1375**

				I-XII
Thermal conventional net production	GWh	Σ	1999	1052984
			2003	1305722
			2004	1374544
Thermal nuclear net production	GWh	Σ	1999	705505
			2003	787354
			2004	798667
Hydraulic net production	GWh	Σ	1999	301973
			2003	307434
			2004	319653
Total net electrical energy production	GWh	Σ	1999 [2]	2060462
			2003 [2]	2400510
			2004 [2]	2492864
Total physical import / export balance [1]	GWh	Σ	1999	-7105
			2003	-7894
			2004	-10275
Consumption of pumps	GWh	Σ	1999	34916
			2003	44187
			2004	45194
National electrical consumption	GWh	Σ	1999	2018441
			2003	2348429
			2004	2437395
National electrical consumption as percentage of total values	%∅	pond.	1999	-
			2003	-
			2004	-
Energy capability factor (hydro power)	∅	pond.	1999	-
			2003	-
			2004	-
Consumption load at 3:00 a.m. on the 3rd Wednesday	MW	max.	1999	225670
			2003	273901
			2004	269787
Consumption load at 11:00 a.m. on the 3rd Wednesday	MW	max.	1999	302308
			2003	356987
			2004	359003
Peak load on the 3rd Wednesday	MW	max.	1999	315422
			2003	360698
			2004	372278
Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.	MW	max.	1999	319108
			2003	369182
			2004	370997

[1] Terminology 2.15, see also note Physical energy exchange in interconnected operation

[2] Including deliveries from industry

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
102670	98077	96323	80648	73436	74634	80844	75220	81965	89343	97202	102622
117551	112739	112032	101817	95548	98622	106795	103527	107634	116755	114751	117951
127650	120930	126482	105360	100984	101914	107523	103752	112312	117332	121554	128751
66505	58295	60651	57140	53188	53346	55074	54633	56924	60739	62739	66271
74546	67156	67442	63956	60564	58558	62384	58707	60734	67290	69785	76232
77610	68277	67891	64627	60225	57451	62864	59283	60143	68414	72741	79141
19762	20330	24435	25158	32034	29606	27225	23871	22926	25029	25347	26250
36583	30195	28627	25216	29849	27115	23371	19712	17133	21336	22475	25822
27248	26279	28756	27506	32230	32132	28533	23963	21392	21954	25173	24487
188937	176702	181409	162946	158658	157586	163143	153724	161815	175111	185288	195143
228680	210090	208101	190989	185961	184295	192550	181946	185501	205381	207011	220005
232508	215486	223129	197493	193439	191497	198920	186998	193847	207700	219468	232379
-63	-114	-587	-568	-1021	-828	-741	-1127	-685	-874	-479	-18
-1615	-723	-1230	-856	-1168	87	-91	-1037	-56	-38	-394	-773
-1040	-788	24	-1004	-876	-1372	-886	-1567	-723	-1071	-744	-228
2969	2350	2478	2634	3200	2933	2962	2900	3011	3264	2929	3286
3557	3049	3617	3338	3613	3728	3859	4128	3682	3707	3832	4077
3882	3308	3489	3477	3712	3726	4107	3821	3646	4061	3850	4115
185905	174238	178344	159744	154437	153825	159440	149697	158119	170973	181880	191839
223508	206318	203254	186795	181180	180654	188600	176781	181763	201636	202785	215155
227586	211390	219664	193012	188851	186399	193927	181610	189478	202568	214874	228036
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
213971	**225670**	202247	192769	175545	177368	179916	163417	176343	196930	219297	221541
260165	**273901**	236641	214294	204133	212538	215162	197772	205058	217609	230590	255135
258021	252623	228162	222766	207875	206525	214130	195089	206982	224656	245077	**269787**
294997	300340	278624	275684	260566	266406	261278	238732	263482	283910	294460	**302308**
351877	**356987**	312866	300766	300665	307318	306667	277350	298178	310515	325452	343511
345736	341297	312641	307984	298154	303461	311331	277829	308194	318761	339080	**359003**
300759	304282	279136	275684	261077	267061	263522	241208	263864	283910	305241	**315422**
360237	**360698**	317946	300766	302006	310961	309440	282399	300269	311918	339678	359627
355601	349296	318883	307984	298759	306149	314678	282286	309705	320014	349152	**372278**
307337	313760	291422	285729	273027	280068	277179	255092	278031	296154	308510	**319108**
361688	**369182**	328144	313953	313936	319125	318336	288670	309542	320391	338850	356894
361083	352094	324733	318399	310368	313939	326847	289929	318070	331436	352771	**370997**

[3] Denmark West and Ukraine West are not part of UCTE values

EXPORTING COUNTRIES	Year	IMPORTING COUNTRIES AT	BA	BE	BG	CH	CS	CZ	DE	ES	FR	GR	HR
AT	1999					3145		68	5343				
	2003					4062		2	3333				
	2004					4419		9	4465				
BA	1999						1452						247
	2003						1961						1054
	2004						1499						2099
BE	1999										1010		
	2003										872		
	2004										1179		
BG	1999						542					1128	
	2003						1636					3302	
	2004						2001					3633	
CH	1999	375							5863		2209		
	2003	371							3128		1463		
	2004	309							2786		2304		
CS	1999		510		664								3
	2003		792		91								86
	2004		731		8								1040
CZ	1999	3636							5693				
	2003	7628							12794				
	2004	6248							13116				
DE	1999	5510				8685		612			222		
	2003	9906				13348		52			152		
	2004	8922				11830		144			396		
ES	1999										589		
	2003										602		
	2004										760		
FR	1999			5830		8978			13771	7405			
	2003			9400		11692			20227	6389			
	2004			7597		9820			15482	6034			
GR	1999				244								
	2003				1								
	2004				1								
HR	1999		175				0						
	2003		1290				0						
	2004		919				1						
HU	1999	2018					443						738
	2003	638					522						5842
	2004	740					394						5130
IT	1999	0				48					441	0	
	2003	0				14					434	28	
	2004	0				14					544	191	
LU	1999			0					657				
	2003			1959					834				
	2004			2382					751				
MK	1999						n.a.					559	
	2003						5					838	
	2004						0					833	
NL	1999			3088					665				
	2003			3212					601				
	2004			4633					558				
PL	1999							6778	368				
	2003							9488	285				
	2004							9154	450				
PT	1999									4453			
	2003									3107			
	2004									2130			
RO	1999				n.a.		476						
	2003				1193		1852						
	2004				732		2014						
SI	1999	5											1600
	2003	199											1876
	2004	234											1785
SK	1999							1527					
	2003							541					
	2004							463					
DK_W	1999								n.a.				
	2003								n.a.				
	2004								4042				
UA_W	1999												
	2003												
	2004												
III	1999				n.a.		1649		6406	0	0	1254	
	2003				0		264		4556	0	2975	51	
	2004				0		151		6606	21	812	205	
UCTE	1999	11544	685	8918	908	20856	1895	8985	32360	11858	4471	559	2588
	2003	18742	2082	14571	1285	29116	5976	10083	41202	9496	3523	4168	8858
	2004	16453	1650	14612	741	26083	5909	9770	37608	8164	5183	4657	10054
Total Import	1999	11544	685	8918	908	20856	3544	8985	38766	11858	4471	1813	2588
	2003	18742	2082	14571	1285	29116	6240	10083	45758	9496	6498	4219	8858
	2004	16453	1650	14612	741	26083	6060	9770	44214	8185	5995	4862	10054
Balance UCTE	1999	-2319	-1014	714	-762	-9267	1382	-3276	-6010	7756	-47283	111	2344
	2003	6147	-933	6318	-4342	-1785	3354	-16215	-5011	3124	-62210	2881	3902
	2004	3459	-1948	7808	-5882	769	2201	-15719	-9127	-1119	-50875	3130	3697
Balance Total	1999	-2319	-1014	714	-762	-9267	1239	-3276	-302	5953	-62197	161	2344
	2003	6147	-933	6318	-5478	-1785	3153	-16215	-8065	1667	-64536	2156	3902
	2004	3459	-1948	7808	-5882	769	2030	-15719	-7305	-2677	-60387	2819	3697

HU	IT	LU	MK	NL	PL	PT	RO	SI	SK	DK_W	UA_W	UCTE	III	Total Export
65	1687							3555				13863		13863
468	1664							3066				12595		12595
478	1621							2002				12994		12994
												1699		1699
												3015		3015
												3598		3598
		1946		5248								8204		8204
		1602		5779								8253		8253
		1572		4053								6804		6804
							n.a.					1670	n.a.	1670
							689					5627	1136	6763
							989					6623		6623
	21676											30123		30123
	25939											30901		30901
	19915											25314		25314
0			n.a.				970					513	1792	2305
0			1624				29					2622	465	3087
0			1907				22					3708	322	4030
					79				2853			12261		12261
					57				5819			26298		26298
					80				6045			25489		25489
		4229		17158	1954					n.a.		38370	698	39068
		4956		15038	2761					n.a.		46213	7610	53823
		4928		17357	3158					2213		46735	4784	51519
						3513						4102	1803	5905
						5770						6372	1457	7829
						8523						9283	1579	10862
	15770											51754	14914	66668
	18025											65733	5301	71034
	17125											56058	10324	66382
	0		448									448	1204	1652
	1133		153									1287	776	2063
	1424		102									1527	516	2043
0								69				244		244
1								3665				4956		4956
0								5437				6357		6357
							0		11		75	3210	75	3285
							116		0		23	7118	23	7141
							31		0		26	6295	26	6321
								38				527		527
								43				519		519
								3				752		752
												657		657
												2793		2793
												3133		3133
												559		559
												843		843
												833		833
												3753		3753
												3813		3813
												5191		5191
									1278		0	8424	0	8424
									2729		0	12502	2642	15144
									2624		0	12228	2375	14603
												4453		4453
												3107		3107
												2130		2130
0											n.a.	476	n.a.	476
0											0	3045	0	3045
194											1	2940	1	2941
	3406											5011		5011
	4548											6623		6623
	6180											8199		8199
3519					6						40	5052	40	5092
9048					0						1290	9589	1290	10879
8546					8						1575	9017	1575	10592
												n.a.	n.a.	n.a.
												n.a.	n.a.	n.a.
												4042	4417	8459
698					728		n.a.		905			1525	n.a.	1525
4561					931		0		75			5567	0	5567
4573					853		282		64			5772	0	5772
698					728		n.a.		905	n.a.	n.a.	11640		11640
4561					2163		120		75	n.a.	0	14765		14765
4573					2066		706		64	2831	0	15204		15204
3584	42539	6175	448	22406	2039	3513	970	3662	4142	n.a.	115	195105		195220
9517	51309	6558	1777	20817	2818	5770	834	6774	8548	n.a.	1313	263824		265137
9218	46265	6500	2009	21410	3246	8523	1042	7442	8669	2213	1602	255208		259023
4282	42539	6175	448	22406	2767	3513	970	3662	5047	n.a.	n.a.	206745		
14078	51309	6558	1777	20817	4981	5770	954	6774	8623	n.a.	1313	278589		
13791	46265	6500	2009	21410	5312	8523	1748	7442	8733	5044	1602	277055		
374	42012	5518	-111	18653	-6385	-940	494	-1349	-910	n.a.	n.a.			
2399	50790	3765	934	17004	-9684	2663	-2211	151	-1041	n.a.	n.a.			
2923	45513	3367	1176	16219	-8982	6393	-1898	-757	-348	-1829	-4170			
997	42012	5518	-111	18653	-5657	-940	494	-1349	-45	n.a.	n.a.			
6937	50790	3765	934	17004	-10163	2663	-2091	151	-2256	n.a.	-4254			
7470	45513	3367	1176	16219	-9291	6393	-1193	-757	-1859	-3415	-4170			

LOAD VALUES 2

Load values

II

HOURLY LOAD VALUES PER COUNTRY

NOTICE:

A grafical presentation of the load curves of all the countries is available in an electronic format on UCTE's web site (http://www.ucte.org) in the section „Publications" together with the Statistical Yearbook 2004.

[1] FYROM = Former Yugoslav Republic of Macedonia
[2] Denmark West represents the Western part of Denmark synchronously interconnected with UCTE (Jutland and Funen)
[3] Ukraine West represents the so-called Burshtyn Island synchronously interconnected with UCTE

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
21 / 1 / 2004	6466	6236	6075	5849	5944	6417	7121	7871	8102	8105	8191
18 / 2 / 2004	6382	6147	5967	5798	5886	6322	7057	7742	8041	8130	8233
17 / 3 / 2004	5776	5514	5344	5242	5383	5987	6705	7338	7546	7606	7661
21 / 4 / 2004	5512	5231	5069	4898	5032	5555	6387	6924	7139	7145	7188
19 / 5 / 2004	5259	4957	4854	4686	4738	5132	5979	6647	6924	6998	7107
16 / 6 / 2004	5211	4901	4747	4547	4600	4954	6015	6850	7108	7174	7348
21 / 7 / 2004	5292	4931	4767	4574	4589	4945	5716	6423	6800	6996	7196
18 / 8 / 2004	5145	4809	4674	4486	4487	4933	5700	6442	6802	6981	7187
15 / 9 / 2004	5367	5072	4944	4757	4791	5261	6350	7108	7391	7421	7583
20/ 10 / 2004	5766	5477	5363	5190	5332	5851	6809	7631	7678	7572	7602
17/ 11 / 2004	6320	6064	5897	5770	5849	6402	7202	7943	8117	8049	8138
15/ 12 / 2004	6818	6563	6419	6186	6270	6763	7583	8389	8563	8533	8607

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
21 / 1 / 2004	1112	1033	982	961	969	1032	1157	1359	1468	1493	1474
18 / 2 / 2004	1166	1086	1058	1042	1057	1119	1284	1448	1551	1533	1504
17 / 3 / 2004	979	921	894	890	899	951	1113	1265	1362	1344	1282
21 / 4 / 2004	969	887	862	851	856	919	1044	1235	1313	1335	1292
19 / 5 / 2004	889	823	758	789	791	817	980	1139	1232	1193	1208
16 / 6 / 2004	912	849	792	775	797	813	903	1093	1147	1188	1162
21 / 7 / 2004	946	870	835	822	823	836	905	1084	1192	1233	1236
18 / 8 / 2004	955	868	828	810	825	860	927	1115	1212	1256	1259
15 / 9 / 2004	897	839	828	790	803	856	971	1126	1201	1231	1202
20/ 10 / 2004	995	933	894	887	966	1010	1098	1258	1304	1353	1308
17/ 11 / 2004	1153	1064	1029	1024	1015	1064	1258	1424	1512	1521	1486
15/ 12 / 2004	1256	1168	1103	1085	1103	1181	1328	1541	1648	1679	1640

Belgium

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	10711	10362	10009	9733	9796	9970	10813	11927	12353	12386	12312
18 / 2 / 2004	10676	10186	9834	9551	9471	9712	10691	11683	11821	11874	11859
17 / 3 / 2004	9826	9210	8613	8630	8654	9167	10056	10631	10938	10994	11164
21 / 4 / 2004	9609	9043	8566	8630	8368	8733	9582	10340	10759	11057	11174
19 / 5 / 2004	8739	8246	7985	7916	7992	8301	8953	9829	10462	10716	10773
16 / 6 / 2004	8842	8405	8142	7890	8016	8172	8687	9732	10320	10708	10704
21 / 7 / 2004	7969	7534	7218	7128	6909	6837	6701	6781	7226	7619	8048
18 / 8 / 2004	8739	8352	7896	7853	7907	8117	8660	9503	10280	10650	10918
15 / 9 / 2004	9012	8531	8184	8041	8156	8392	9296	10372	10677	10931	11066
20/ 10 / 2004	9515	8846	8397	8252	8226	8728	9592	11045	11618	11534	11617
17/ 11 / 2004	10209	9621	9252	8883	8964	9426	10318	11436	11713	11696	11687
15/ 12 / 2004	11140	10729	10266	10070	9870	10212	10971	12136	12581	12414	12420

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
8256	8040	7992	7978	7950	8026	8511	8455	8084	7522	7151	7344	6988
8327	8095	8045	7958	7932	7938	7993	8156	7864	7356	6896	7144	6730
7744	7413	7322	7236	7132	7022	7135	7572	7577	7174	6596	6591	6100
7263	7022	7015	6925	6779	6599	6496	6474	6558	6753	6375	6279	5838
7280	7059	6983	6851	6743	6544	6540	6418	6247	6204	6120	5940	5546
7538	7245	7174	7030	6899	6705	6633	6458	6220	6103	6081	5960	5525
7388	7133	7047	6919	6835	6703	6633	6472	6245	6119	6077	5976	5626
7324	7088	7011	6895	6764	6647	6576	6487	6237	6298	6130	5935	5493
7781	7439	7379	7240	7121	7018	7067	7115	7223	6799	6236	6020	5643
7697	7434	7372	7266	7175	7158	7329	7798	7613	7120	6618	6563	6141
8216	7927	7899	7888	7965	8221	8528	8395	7965	7470	7009	7043	6574
8650	8458	8516	8535	8571	8797	8894	8721	8417	7941	7479	7579	7275

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
1461	1459	1503	1488	1508	1521	1616	1609	1628	1590	1504	1439	1286
1449	1414	1432	1409	1389	1384	1533	1657	1639	1591	1506	1431	1287
1236	1198	1239	1226	1209	1172	1216	1425	1500	1445	1348	1222	1079
1270	1256	1230	1260	1249	1214	1172	1154	1277	1447	1398	1228	1099
1198	1167	1176	1203	1186	1170	1120	1115	1144	1291	1358	1200	1047
1178	1189	1181	1238	1209	1172	1135	1096	1144	1233	1287	1164	1024
1259	1257	1259	1261	1244	1214	1155	1130	1139	1180	1281	1207	1070
1275	1272	1273	1312	1291	1235	1198	1179	1203	1406	1359	1201	1076
1202	1198	1205	1242	1245	1222	1174	1201	1387	1407	1279	1131	1014
1295	1247	1257	1297	1293	1303	1347	1478	1528	1466	1367	1242	1130
1450	1425	1455	1452	1442	1575	1700	1668	1612	1600	1511	1426	1278
1635	1614	1646	1660	1657	1773	1803	1765	1746	1701	1645	1560	1404

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
12399	12184	12099	12067	12038	11893	12349	12890	12511	11843	11279	11502	11495
11998	11961	11905	11873	11865	11749	11747	12306	12290	11761	11211	11507	11332
11226	11159	10928	10849	10764	10641	10404	10637	11230	11113	10511	10579	10499
11366	11261	11158	11076	10986	10835	10577	10445	10073	10006	10302	10654	10382
11049	10844	10790	10638	10646	10524	10341	9973	9574	9333	9127	9752	9617
10961	10850	10742	10700	10630	10580	10581	10314	9880	9609	9397	9825	9765
8179	8416	8179	8044	7852	7765	7847	7945	7832	7700	7789	8389	8366
11270	11102	11011	10972	10836	10642	10650	10645	10256	9840	9944	9902	9377
11302	11137	11016	10974	10934	10917	10769	10632	10296	10567	10557	10254	9769
11687	11597	11569	11377	11148	11028	10992	11163	11423	11142	10514	10294	10301
11824	11738	11792	11758	11787	11836	12393	12505	11982	11586	10971	11142	11045
12453	12265	12408	12311	12355	12438	13170	13325	12940	12168	11645	11541	11542

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
21 / 1 / 2004	4855	4606	4439	4381	4347	4380	4699	5043	5232	5332	5294
18 / 2 / 2004	5146	4851	4707	4603	4644	4710	4979	5252	5387	5380	5253
17 / 3 / 2004	4408	4206	4031	3976	3941	4069	4294	4500	4594	4562	4354
21 / 4 / 2004	3789	3485	3349	3288	3293	3348	3685	3882	4009	3993	3893
19 / 5 / 2004	3652	3342	3190	3113	3078	3195	3512	3609	3713	3751	3680
16 / 6 / 2004	3495	3172	2975	2889	2911	2954	3156	3379	3508	3570	3587
21 / 7 / 2004	3545	3219	3066	3016	2950	2954	3197	3312	3471	3603	3619
18 / 8 / 2004	3423	3130	2993	2941	2911	2932	3095	3281	3445	3529	3505
15 / 9 / 2004	3457	3184	3012	2938	2923	3021	3325	3554	3646	3650	3590
20/ 10 / 2004	3635	3298	3185	3130	3130	3196	3587	3856	3908	3949	3848
17/ 11 / 2004	4251	3985	3826	3799	3806	3922	4264	4569	4720	4834	4840
15/ 12 / 2004	5014	4709	4531	4460	4416	4476	4841	5222	5408	5529	5432

Switzerland

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	7502	7384	7351	7181	7280	7686	8681	9210	9294	9342	9336
18 / 2 / 2004	7135	7081	7035	6888	7243	7568	8423	8875	8881	9043	9037
17 / 3 / 2004	6520	6424	6424	6489	6853	7264	7835	8184	8323	8380	8555
21 / 4 / 2004	6087	5985	5892	5835	6254	6748	7266	7861	7850	7939	8187
19 / 5 / 2004	5901	5590	5352	5139	5408	6190	7113	7554	7683	7826	8083
16 / 6 / 2004	5745	5497	5295	5035	5229	5997	7160	8161	8234	8232	8490
21 / 7 / 2004	5621	5226	5003	4743	4935	5548	6565	7143	7291	7522	7849
18 / 8 / 2004	5432	5191	5057	4888	5097	5882	6859	7530	7516	7993	8276
15 / 9 / 2004	5682	5463	5327	5044	5345	6257	7383	7781	7940	8199	8493
20/ 10 / 2004	6185	6021	6065	5982	6296	6984	7821	8336	8311	8512	8734
17/ 11 / 2004	7552	7373	7193	6962	7163	7668	8618	8931	8925	8968	9089
15/ 12 / 2004	7745	7608	7491	7264	7464	7885	8797	9374	9413	9454	9431

Serbia & Montenegro

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	5289	4958	4626	4435	4359	4543	5097	5822	6131	6255	6245
18 / 2 / 2004	5707	5374	5070	4782	4768	5012	5635	6290	6239	6311	6211
17 / 3 / 2004	4477	4182	3848	3711	3695	3970	4542	4996	4973	4937	4792
21 / 4 / 2004	4078	3615	3348	3217	3230	3451	4052	4611	4779	4825	4834
19 / 5 / 2004	3649	3206	2950	2829	2868	3138	3672	4319	4435	4478	4485
16 / 6 / 2004	3341	2933	2723	2647	2636	2781	3282	3733	3983	4089	4110
21 / 7 / 2004	3604	3155	2893	2832	2803	2863	3282	3712	3983	4130	4138
18 / 8 / 2004	3309	2991	2761	2652	2719	2864	3179	3617	3918	4052	4141
15 / 9 / 2004	3258	2914	2797	2760	2733	2901	3413	3970	4176	4257	4235
20/ 10 / 2004	3833	3339	3256	3268	3245	3394	3931	4552	4677	4714	4705
17/ 11 / 2004	5044	4650	4378	4180	4148	4386	4987	5616	5710	5740	5631
15/ 12 / 2004	5663	5318	5013	4839	4709	5052	5653	6278	6445	6576	6598

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
5349	5302	5299	5250	5291	5263	5577	5835	5831	5654	5528	5669	5553
5202	5058	4982	4885	4835	4829	4991	5565	5828	5672	5525	5616	5444
4360	4258	4224	4143	4125	4149	4190	4604	5135	5063	4839	4906	4641
3824	3827	3844	3769	3707	3621	3666	3817	4045	4367	4378	4310	4119
3583	3635	3660	3616	3557	3490	3497	3578	3676	3851	4162	4124	3895
3561	3606	3664	3638	3627	3570	3525	3593	3667	3581	3886	4012	3852
3648	3720	3745	3724	3674	3685	3632	3684	3722	3716	3937	3914	3892
3557	3582	3635	3685	3605	3586	3570	3603	3680	3852	3981	3959	3787
3647	3637	3683	3674	3653	3641	3640	3731	3971	4290	4037	3862	3665
3847	3863	3871	3831	3784	3740	3751	4118	4615	4454	4137	4064	3897
4907	4828	4803	4761	4791	4918	5202	5390	5371	5171	4976	5000	4718
5458	5338	5317	5259	5291	5420	5778	5939	5949	5747	5565	5629	5415

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
9060	8947	8981	8906	8832	8972	9092	8756	8561	8164	8435	8334	7908
8817	8591	8608	8404	8341	8196	8751	8708	8152	8030	8134	8060	7938
8127	7998	8088	7868	7626	7310	7528	7961	7617	7572	7703	7245	6779
7699	7574	7583	7575	7412	7124	7097	6871	6791	7206	7397	7081	6697
7763	7622	7660	7384	7005	6807	6686	6468	6278	6452	6922	6710	5894
8018	7938	7804	7408	7700	7347	7107	6738	6431	6527	6877	6646	6206
7381	7350	7534	7424	7259	6823	6435	6452	6055	6141	6498	6182	5674
7832	7768	7840	7494	7459	7242	6903	6559	6520	6755	7062	6689	5826
8065	7758	7788	7927	7695	7480	7340	7150	7267	6847	6911	6690	6244
8299	8213	8236	8180	8213	8041	8151	8019	7637	7464	7510	6998	6443
8695	8848	8780	8752	8894	8983	8983	8355	8271	7926	8084	7839	7193
9127	9073	9097	8819	9014	9350	9548	9141	9027	8575	8778	8463	7926

Serbia & 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
6259	6173	6066	6016	6036	6227	6426	6465	6485	6333	6286	6228	5900
6005	5827	5708	5554	5550	5719	6184	6606	6676	6507	6255	6240	5879
4660	4640	4471	4345	4231	4416	4587	5366	5581	5501	5325	5059	4578
4734	4589	4486	4339	4252	4261	4291	4383	4834	5391	5284	4833	4384
4460	4297	4274	4140	4103	4031	3974	4002	4274	4862	5012	4724	4175
4060	4147	4084	3986	3925	3862	3813	3820	3924	4253	4627	4203	3765
4194	4301	4305	4191	4045	4027	3946	3934	4006	4237	4508	4321	3981
4157	4202	4150	4108	4013	3916	3839	3868	4109	4681	4599	4310	3873
4261	4033	4033	3975	4109	3923	3929	4177	4777	4832	4545	4113	3738
4583	4516	4392	4321	4301	4308	4502	5173	5402	5237	5015	4674	4253
5609	5532	5418	5414	5423	5966	6274	6206	6160	6050	5870	5630	5292
6445	6354	6318	6330	6466	6721	6867	6711	6811	6635	6461	6341	5974

Hourly load values on the 3rd Wednesday in MW

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
21 / 1 / 2004	8091	7758	7819	7657	7773	8338	9146	9058	9229	9098	9107
18 / 2 / 2004	7831	7573	7479	7366	7538	8032	8720	8757	8964	8767	8853
17 / 3 / 2004	7249	6945	6882	6761	7031	7476	8005	8048	8081	7968	7945
21 / 4 / 2004	6553	6358	6272	6216	6355	6712	7481	7634	7549	7492	7465
19 / 5 / 2004	6217	6051	5987	5853	5844	6272	7069	7271	7384	7331	7295
16 / 6 / 2004	5894	5721	5560	5467	5455	5915	6802	6986	7173	7080	7094
21 / 7 / 2004	5686	5450	5337	5237	5227	5549	6292	6565	6799	6906	6868
18 / 8 / 2004	5656	5489	5326	5287	5389	5652	6561	6735	6966	6998	7053
15 / 9 / 2004	5973	5801	5716	5623	5888	6401	7275	7409	7535	7411	7366
20/ 10 / 2004	6914	6827	6650	6639	6838	7543	8487	8453	8404	8244	8142
17/ 11 / 2004	6997	6936	6701	6817	6609	6687	6556	6782	7013	7185	7484
15/ 12 / 2004	7895	7979	7983	7890	7937	8056	8461	9303	9317	9528	9500

Germany [1]

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	58000	56000	55200	55100	55300	56900	62000	68100	70300	70300	70700
18 / 2 / 2004	52100	50100	49200	49600	51100	53400	59500	66300	69000	69700	70500
17 / 3 / 2004	47500	45100	44700	45800	48300	51700	56900	62000	65400	65900	66700
21 / 4 / 2004	47500	45500	44300	44900	46900	50800	57700	63200	66600	66900	67900
19 / 5 / 2004	46900	44700	43700	43400	45100	47800	55500	62800	66500	66700	67000
16 / 6 / 2004	42700	40600	39800	40200	41500	44800	53700	60700	64600	64500	66500
21 / 7 / 2004	43400	41900	40700	40700	41800	44700	52200	59600	63900	65500	67200
18 / 8 / 2004	43500	41300	40400	40300	41000	44900	51200	57600	62000	63900	64800
15 / 9 / 2004	43000	40500	39400	40000	41500	46600	57200	64200	67100	67200	67800
20/ 10 / 2004	51900	49000	47900	47900	49400	52300	59900	67600	68900	68900	69900
17/ 11 / 2004	53300	50100	49000	49000	50300	53000	60200	68000	70800	71400	72300
15/ 12 / 2004	59700	57200	56300	55600	55300	57400	63700	71300	73000	72400	72500

[1] Values estimated on the basis of the vertical load. The vertical load is the total amount of the power flows out of the transmission network into distribution and large consumer networks.

Spain

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	28676	25854	24340	23507	23123	22895	25148	27965	31708	32854	33804
18 / 2 / 2004	28085	25273	23923	22992	22571	22684	24652	27978	30815	32781	33314
17 / 3 / 2004	26831	25009	23288	22528	22264	22667	24266	26865	29570	30881	31849
21 / 4 / 2004	25650	23415	22094	21479	21309	21611	23330	26397	28334	29387	30233
19 / 5 / 2004	23563	21419	20314	20144	20085	20335	21974	24391	27684	29105	29813
16 / 6 / 2004	24139	22425	21118	20912	20752	20906	22247	24613	28142	29652	30354
21 / 7 / 2004	26692	24902	23518	22645	22390	22637	23991	25860	28827	31467	33110
18 / 8 / 2004	24477	22127	20621	19819	19395	19347	20608	21909	24014	26050	27630
15 / 9 / 2004	24876	22818	21401	21254	20941	21220	23120	26266	28470	30568	31515
20/ 10 / 2004	23731	21630	20625	20185	19951	20412	22102	25873	28583	29277	29985
17/ 11 / 2004	28109	25594	24035	23061	22861	22960	24820	28076	31471	33103	33771
15/ 12 / 2004	29555	26769	25041	24327	23706	24177	25675	28815	32787	33634	34543

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
9137	9239	9217	9386	9198	9585	9329	9189	9148	8584	8147	7964	7803
8940	9088	8814	9056	8827	8923	9058	8877	8849	8311	7495	7595	7467
7994	8024	7793	7854	7594	7613	7607	8338	8177	7773	7183	6994	6828
7547	7540	7284	7369	7225	7177	6768	6880	7109	7286	6766	6522	6285
7374	7472	7114	7196	7058	6968	6635	6705	6742	6699	6521	6348	6123
7154	7297	6911	7010	6879	6856	6512	6572	6571	6347	6307	6126	5890
7039	7121	6816	6778	6642	6742	6311	6221	6255	6124	6147	5908	5688
7200	7162	6905	6873	6829	6797	6461	6376	6399	6555	6125	5918	5700
7411	7395	7206	7232	7163	7205	6894	7104	7354	6886	6383	6119	5918
8131	8225	7883	8028	8042	8084	8113	8578	8217	7692	7159	6968	6694
7768	7669	7840	7739	7798	7772	8292	7834	7784	7591	7271	6941	6745
9597	9642	9947	9610	9834	9769	10097	9568	9554	9272	8918	8394	9143

Germany [1]

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
71500	71300	70600	70100	69100	68500	72300	72900	71300	67600	65300	64600	60800
72000	71300	70500	69500	68300	66600	68300	72600	71000	66700	63700	62100	57800
67700	67000	65200	63800	62000	60100	60800	64800	68900	64300	60300	57100	52200
68700	67800	66900	65600	64200	62300	61300	61400	61000	61200	61100	56900	50900
67900	66000	64600	62800	60800	58200	57800	57700	57000	55200	55100	53100	47800
68400	66800	65100	63500	62000	60400	60100	60200	60000	58700	57900	57500	52300
68600	67400	66100	64900	63900	62200	61400	60700	59600	56400	55500	53600	48600
65800	64500	62900	61500	60200	58800	58700	59000	58600	57300	56100	51400	45500
68500	67500	66300	65100	63900	62400	62900	64300	66600	67600	62400	57000	50700
71300	69800	68400	66800	65700	64200	65100	68600	69400	65000	61500	58400	53300
73400	71900	70800	70100	69100	69300	71600	69700	66200	61300	57500	55100	48700
73400	72800	71600	70900	70100	72500	74300	73700	71500	67900	65200	63800	59200

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
33891	33404	32402	30818	31020	31198	31873	34472	36012	35230	34027	31609	31239
33492	33326	31852	30243	30478	30982	31682	32782	35157	34940	33690	31063	30602
32429	32160	31245	28789	28878	29578	29849	29323	31574	32646	31580	29388	29207
30700	30317	29904	28141	28480	28823	28759	28398	27854	28935	31178	28901	25873
29812	30554	29459	28091	28142	28774	29382	29129	28459	27859	29232	28520	25926
31138	31396	31243	30096	30340	31060	31536	31328	30166	29213	29046	28767	27250
34324	35326	35117	33631	33713	34484	35166	34826	33372	31412	31329	31551	29334
28569	29253	29414	28417	27501	27327	27430	27507	27180	26802	28772	27959	25845
32180	32569	32192	30067	30007	30396	30713	30490	29785	30900	31612	28605	26500
30373	30631	30358	28822	29300	29294	29291	29719	30943	32022	30232	27405	24923
33914	33696	32644	30822	31119	31522	32737	36016	36690	36459	35042	32384	31832
34764	34150	33266	31691	31958	32777	34282	37196	37196	36472	35113	32550	32501

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
21 / 1 / 2004	59380	59605	57664	55606	55202	58219	64039	69391	71156	71844	71713
18 / 2 / 2004	59846	60571	58900	56648	56414	59105	63343	66202	67854	68782	68683
17 / 3 / 2004	50585	50728	49132	47301	47303	50683	55837	59240	60997	60789	59763
21 / 4 / 2004	50941	51069	49055	47093	46869	49706	53811	57597	59984	60334	59854
19 / 5 / 2004	44059	43705	41535	39691	39674	41330	45657	49852	52829	53768	54421
16 / 6 / 2004	44154	43637	41613	39739	39702	41098	45407	50189	52752	54386	55140
21 / 7 / 2004	44282	43984	41663	39932	39899	41851	44484	48845	52392	54777	55814
18 / 8 / 2004	38528	38205	36271	34788	34791	36636	38446	41725	45124	47460	48623
15 / 9 / 2004	42774	42582	40792	39170	39291	42058	47895	50980	53656	54913	55328
20/ 10 / 2004	49032	48961	46892	44862	44812	47873	54188	59768	61024	61597	61319
17/ 11 / 2004	58573	58543	56670	54526	54470	57886	64277	68255	69698	70157	69865
15/ 12 / 2004	63379	66377	64420	62141	61869	65122	71464	76860	77446	77742	77328

Greece

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	4582	4598	4449	4288	4321	4806	5597	6224	6688	6764	6767
18 / 2 / 2004	4958	5029	4882	4720	4736	5191	6020	6733	7271	7379	7400
17 / 3 / 2004	4512	4475	4321	4194	4289	4685	5466	5998	6313	6247	6228
21 / 4 / 2004	4352	4191	4052	3971	4070	4432	5221	5788	6240	6347	6456
19 / 5 / 2004	4168	3876	3830	3807	3934	4271	5067	5685	6086	6161	6240
16 / 6 / 2004	4933	4659	4523	4482	4519	4787	5563	6441	7107	7319	7559
21 / 7 / 2004	6057	5754	5538	5473	5510	5682	6431	7271	7919	8164	8347
18 / 8 / 2004	5093	4837	4668	4630	4650	4758	5123	5917	6616	6982	7184
15 / 9 / 2004	4528	4322	4214	4189	4259	4635	5305	6013	6595	6677	6871
20/ 10 / 2004	4166	3942	3858	3839	3926	4415	5116	5640	6123	6195	6337
17/ 11 / 2004	4421	4305	4185	4102	4164	4604	5269	5944	6389	6481	6573
15/ 12 / 2004	5180	5170	5029	4848	4911	5461	6298	6828	7326	7466	7524

Croatia

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	1731	1580	1489	1454	1469	1598	2001	2273	2388	2431	2365
18 / 2 / 2004	1815	1635	1544	1508	1521	1652	2030	2282	2397	2412	2311
17 / 3 / 2004	1559	1429	1347	1333	1356	1478	1721	1955	2032	1965	1919
21 / 4 / 2004	1493	1355	1267	1237	1251	1358	1614	1911	1992	1980	1883
19 / 5 / 2004	1024	886	830	851	893	938	1294	1638	1708	1710	1644
16 / 6 / 2004	1378	1272	1184	1160	1162	1203	1458	1694	1801	1835	1830
21 / 7 / 2004	1605	1456	1332	1307	1298	1324	1539	1802	1998	2074	2067
18 / 8 / 2004	1477	1327	1270	1236	1239	1302	1473	1686	1871	1960	1966
15 / 9 / 2004	1411	1299	1241	1216	1227	1330	1596	1800	1897	1940	1928
20/ 10 / 2004	1496	1330	1272	1227	1251	1359	1712	1965	2050	2052	1967
17/ 11 / 2004	1626	1475	1399	1350	1370	1505	1864	2095	2207	2192	2110
15/ 12 / 2004	1813	1640	1534	1506	1524	1671	2058	2363	2478	2481	2445

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
71887	71449	71196	69689	68230	67768	71388	74535	71049	67548	63560	65032	63251
69440	68941	68412	66243	64649	63790	64727	71184	69177	66160	62463	64054	62547
59258	58913	57997	56004	54169	52834	52676	57719	60378	57010	52612	53714	52383
59532	59014	58110	56235	54296	52420	51473	53009	52058	53111	51943	53401	51249
55026	55245	54975	53822	52302	50801	49819	50020	48305	46303	47535	49948	47619
55841	55710	55225	54510	53137	52036	51089	51857	49666	47492	47112	50206	48582
56407	56367	56049	55431	54044	52862	51702	52020	50251	47901	48281	50788	48329
49507	50121	48942	48308	47103	45945	45557	46251	45071	44501	44309	45370	42876
55783	55540	54884	54124	52527	51360	50592	51983	51844	52269	48490	48972	47079
61431	60556	59747	58483	56960	56013	55879	60151	60616	56606	52248	53144	51108
69689	69103	68435	67012	65937	66263	70656	73166	69864	65862	61599	63209	60782
77281	76290	75602	73384	72079	73532	78158	79981	76726	72922	68477	69686	67373

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
6739	6629	6363	6253	6450	6713	6969	7080	6950	6663	6017	5781	5221
7380	7305	6919	6641	6699	6632	7214	7667	7462	6936	6274	6019	5364
6229	6184	5970	5718	5656	5590	5887	6818	6798	6458	5773	5440	4876
6478	6411	6215	5978	5893	5846	5760	6033	6627	6696	6006	5445	4824
6262	6231	6037	5649	5451	5422	5486	5585	6104	6636	6000	5342	4652
7712	7688	7519	7030	6789	6741	6818	6823	6833	7281	6897	6293	5611
8472	8507	8208	7788	7535	7499	7566	7585	7638	8054	7586	7077	6560
7313	7307	6978	6580	6368	6347	6529	6672	7102	7289	6709	6173	5644
6988	6947	6752	6284	6055	6093	6254	6627	7363	6962	6178	5564	5031
6421	6414	6188	5745	5543	5561	5881	6698	6696	6324	5667	5148	4623
6639	6562	6322	5981	6033	6633	7171	7110	6964	6566	5920	5507	4872
7532	7555	7322	7112	7335	7897	8122	8109	7887	7434	6693	6334	5739

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
2371	2316	2237	2193	2152	2282	2567	2560	2576	2515	2516	2319	2055
2327	2268	2188	2139	2096	2170	2385	2575	2600	2532	2501	2343	2046
1934	1900	1824	1769	1715	1709	1769	2064	2288	2227	2216	1999	1720
1907	1870	1801	1751	1701	1653	1627	1639	1778	2104	2077	1968	1672
1666	1709	1624	1526	1458	1417	1330	1344	1448	1616	1682	1616	1320
1895	1911	1876	1817	1749	1720	1704	1739	1776	1859	1940	1882	1630
2146	2177	2123	2073	1993	1956	1927	1955	1996	2056	2093	2020	1895
2040	2052	2006	1933	1854	1849	1826	1859	1950	2176	2090	1980	1758
1992	2018	1937	1886	1817	1835	1848	1946	2147	2146	1946	1802	1606
1982	1959	1900	1845	1788	1798	1849	2153	2224	2122	1985	1870	1710
2091	2066	1987	1940	1935	2174	2328	2363	2356	2313	2328	2176	1919
2462	2416	2333	2306	2316	2546	2692	2662	2656	2582	2576	2412	2097

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
21 / 1 / 2004	4600	4450	4325	4218	4286	4884	5502	5375	5434	5402	5389
18 / 2 / 2004	4592	4472	4275	4216	4333	4900	5349	5377	5367	5420	5446
17 / 3 / 2004	4292	4104	3972	3905	4063	4496	4889	4910	4948	4943	4915
21 / 4 / 2004	4042	3924	3823	3765	3903	4286	5000	4910	4865	4877	4882
19 / 5 / 2004	3964	3913	3824	3719	3713	4141	4882	4857	4802	4908	4945
16 / 6 / 2004	4001	3889	3722	3657	3625	4036	4766	4832	4911	4973	5020
21 / 7 / 2004	4265	4051	3967	3962	3896	4319	4926	5102	5236	5325	5450
18 / 8 / 2004	3981	3820	3805	3633	3752	3934	4504	4716	4856	4977	5107
15 / 9 / 2004	3984	3856	3835	3679	3867	4388	4998	4927	4999	5078	5113
20/ 10 / 2004	4222	4180	4172	4035	4216	4782	5528	5383	5320	5261	5161
17/ 11 / 2004	4534	4462	4240	4134	4319	4950	5467	5554	5572	5570	5534
15/ 12 / 2004	4642	4579	4397	4324	4414	5064	5737	5721	5796	5833	5834

Italy

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	30452	29307	28865	28828	29548	32435	38797	45805	48247	49372	48988
18 / 2 / 2004	31090	29921	29467	29439	30118	33122	39079	46163	49275	49989	49611
17 / 3 / 2004	29636	28461	28104	28050	28879	31675	36341	43495	46015	46506	46251
21 / 4 / 2004	29844	28436	28156	27943	28596	31008	35439	42199	45335	45896	45358
19 / 5 / 2004	29949	28771	28185	27880	28375	29376	34781	41047	44266	44984	44665
16 / 6 / 2004	31427	30049	29680	29392	29982	30619	35683	42179	46542	47536	47635
21 / 7 / 2004	34976	33611	32656	32300	32707	33479	38536	45270	49896	51651	52356
18 / 8 / 2004	25834	24675	24040	23746	23874	25042	26342	29612	32544	33681	34080
15 / 9 / 2004	32067	31143	30687	30417	30819	33150	37856	44067	47199	48864	49076
20/ 10 / 2004	30641	29574	29087	29322	29818	32421	38760	44551	47573	47968	47655
17/ 11 / 2004	30445	29367	28975	28957	29056	32432	38677	44322	47894	48329	48021
15/ 12 / 2004	31537	30365	29749	29801	30411	33544	40678	46743	49525	49865	49347

Luxembourg

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	713	677	697	682	686	683	734	810	862	856	850
18 / 2 / 2004	702	695	720	689	699	743	748	790	827	821	910
17 / 3 / 2004	768	718	732	749	762	743	742	815	782	844	809
21 / 4 / 2004	740	642	685	717	733	756	697	702	754	745	760
19 / 5 / 2004	648	622	673	651	576	631	641	726	767	777	741
16 / 6 / 2004	650	627	606	634	672	680	665	715	754	779	801
21 / 7 / 2004	708	671	699	655	680	714	687	750	785	829	810
18 / 8 / 2004	522	542	519	542	537	522	562	645	664	690	719
15 / 9 / 2004	723	667	696	684	690	710	716	761	798	775	843
20/ 10 / 2004	702	707	693	699	711	743	769	816	850	854	895
17/ 11 / 2004	840	812	800	766	775	780	833	912	950	952	896
15/ 12 / 2004	792	743	701	705	624	658	693	779	821	825	828

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
5293	5275	5539	5821	5648	5777	5692	5739	5544	5576	5422	5096	4727
5322	5301	5603	5719	5563	5337	5672	5784	5515	5541	5322	5068	4679
4811	4800	5080	5217	4980	4700	4850	5451	5327	5284	5048	4738	4389
4810	4793	4606	4987	4964	4840	4569	4579	5003	4968	4758	4629	4306
4890	4862	4692	5003	5021	4857	4539	4518	4593	4938	4899	4669	4348
5009	4937	4706	5028	5003	4803	4525	4503	4492	4730	4797	4567	4303
5471	5440	5244	5543	5501	5335	5042	4932	4898	5227	5216	4977	4600
5101	5078	4960	5294	5280	5080	4736	4712	4801	5134	4952	4768	4378
5056	5069	4978	5216	5258	5101	4806	5077	5331	5014	4735	4627	4300
5131	5099	4905	5301	5308	5286	5392	5668	5558	5205	5009	4838	4577
5516	5481	5674	5936	5883	6060	5880	5886	5742	5621	5369	5092	4627
5799	5804	6069	6285	6357	6205	6062	6003	5844	5839	5583	5222	4838

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
47335	44054	45581	46763	47442	48601	50679	49413	46438	43803	39948	36379	32723
48019	44816	46188	47616	48188	48376	50230	50161	46899	44428	40771	36590	33186
44316	41777	43095	43764	43894	43054	42884	47169	44949	42449	38932	34830	31530
44015	41374	42573	43323	43104	42498	40771	39882	40734	41758	38467	34898	31720
43584	41046	42446	43488	43883	43290	41704	40212	39405	40547	38245	35236	32013
46504	44219	45111	45982	46477	46276	44325	42592	41354	41107	40431	37595	34119
51636	49651	50531	51385	51673	51902	49761	47599	45916	45838	44062	41245	37913
34467	33691	33306	33219	33176	33557	33577	33669	34212	35567	33438	30859	28409
48135	45612	46223	46820	47484	47481	45276	44542	46584	43860	40091	37304	34780
46612	43886	44962	45831	46115	46142	45909	48196	46035	43003	39170	36115	32921
46347	43435	44701	45285	46257	49765	50513	49381	46329	43835	40084	36082	32720
47586	44523	45745	47277	47920	52883	53093	50938	48139	45167	41557	37815	33981

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
745	833	851	830	826	827	832	853	825	788	763	820	773
929	887	880	847	878	841	857	852	882	877	840	774	798
837	824	781	797	797	793	753	790	882	852	822	853	806
778	765	744	733	724	734	747	753	776	807	823	815	702
786	768	783	754	788	800	821	839	796	806	787	726	656
806	807	785	786	782	775	768	758	751	779	722	709	704
862	845	829	809	825	819	778	751	779	738	734	726	722
726	709	712	713	682	666	672	678	693	631	628	598	568
866	852	803	791	788	784	730	696	797	845	818	749	705
950	921	896	894	894	853	865	874	885	857	828	804	757
875	855	857	864	846	852	856	895	876	845	805	804	802
828	803	817	806	783	813	845	877	846	797	747	825	788

Hourly load values on the 3rd Wednesday in MW

FYROM

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	829	766	730	722	749	901	839	927	1052	1088	1142
18 / 2 / 2004	958	905	866	857	887	1033	1014	1098	1160	1159	1147
17 / 3 / 2004	743	699	673	672	716	817	801	862	875	866	851
21 / 4 / 2004	724	661	629	598	612	633	726	839	870	893	887
19 / 5 / 2004	597	542	516	505	517	529	623	702	767	769	768
16 / 6 / 2004	578	521	487	480	480	488	556	634	698	721	729
21 / 7 / 2004	643	573	542	518	523	526	564	656	727	741	789
18 / 8 / 2004	617	571	536	522	521	548	590	671	714	758	774
15 / 9 / 2004	598	542	520	515	523	561	619	683	725	720	751
20/ 10 / 2004	671	602	586	608	613	611	649	715	742	767	782
17/ 11 / 2004	899	805	760	720	713	757	848	927	1009	1004	1008
15/ 12 / 2004	1091	996	910	882	858	882	1014	1101	1189	1220	1243

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
21 / 1 / 2004	8979	8447	8253	8157	8301	8901	10140	12563	13089	13578	13475
18 / 2 / 2004	8451	7834	7663	7570	7733	8360	10125	12314	13250	13104	12976
17 / 3 / 2004	8324	7796	7549	7535	7607	8172	9570	11569	12662	12736	12727
21 / 4 / 2004	9510	9087	8861	8743	8815	9087	9886	11431	12400	12769	12817
19 / 5 / 2004	8895	8298	8034	7842	7808	7888	8922	10790	11973	12390	12532
16 / 6 / 2004	9012	8396	8084	7962	7973	8133	9066	10855	12049	12546	12679
21 / 7 / 2004	9248	8684	8473	8335	8340	8391	9467	11165	12340	12926	13149
18 / 8 / 2004	9042	8665	8384	8347	8341	8663	9508	11042	12393	12862	13062
15 / 9 / 2004	8236	7778	7544	7554	7653	8101	9532	11105	12331	12691	12785
20/ 10 / 2004	8546	7992	7706	7647	7739	8195	9692	11833	12710	13092	13273
17/ 11 / 2004	8352	7765	7470	7415	7454	8039	9710	12193	13071	13234	13295
15/ 12 / 2004	9002	8362	8127	7941	8113	8559	10319	13100	14074	14232	14307

Poland

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	16157	15940	15928	15894	15965	16039	17742	18392	18893	18781	18948
18 / 2 / 2004	15289	15599	15473	15581	15580	15797	16890	18073	18473	18524	18742
17 / 3 / 2004	14421	14545	14447	14385	14370	14477	15619	16688	17063	16956	17076
21 / 4 / 2004	13466	13160	13385	13355	13138	12915	14751	15664	15899	15919	15838
19 / 5 / 2004	12609	12501	12648	12498	12235	12353	14070	15185	15618	15678	15755
16 / 6 / 2004	12503	12522	12594	12271	12191	12566	13515	14563	15197	15247	15546
21 / 7 / 2004	12685	12768	12862	12757	12515	12524	13243	14431	15258	15473	15793
18 / 8 / 2004	12984	13040	12810	12889	12872	12679	13455	14722	15462	15574	15883
15 / 9 / 2004	13138	13093	13241	13133	13390	13277	14349	15476	15779	15879	16024
20/ 10 / 2004	14967	14497	14582	14501	14676	15233	16822	17368	17676	17552	17660
17/ 11 / 2004	14885	14868	14800	14836	14969	15210	16708	17539	17998	18202	18361
15/ 12 / 2004	15462	15489	15571	15487	15742	15937	18094	18666	18956	19032	19039

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
1141	1135	1171	1184	1169	1185	1218	1205	1203	1175	1167	1172	1122
1112	1103	1106	1100	1092	1101	1203	1242	1234	1204	1214	1234	1173
838	814	845	846	829	806	847	995	1000	982	965	939	848
865	841	842	860	853	836	807	807	893	951	924	856	785
760	757	759	774	765	751	720	708	734	866	892	812	725
740	729	734	757	759	694	669	645	662	778	827	764	687
808	812	833	847	796	782	751	729	733	824	834	786	716
793	789	791	818	783	768	740	739	781	891	849	785	707
779	769	782	797	790	771	736	735	881	880	842	752	689
781	796	802	808	815	823	869	937	949	906	869	825	742
1020	1036	1042	1057	1090	1156	1212	1190	1167	1144	1113	1109	1037
1234	1236	1265	1291	1316	1358	1356	1347	1329	1311	1301	1293	1203

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
13450	13257	13216	13232	13138	13193	13769	13316	12376	11890	11339	10498	10274
13049	12707	12833	13098	13034	12896	13059	13061	12749	11789	11080	10005	9283
12807	12542	12646	12476	12389	12352	12158	12482	12970	12117	11561	10538	9827
12835	12477	12697	12531	12438	11871	11592	10965	10828	10878	11171	10324	9541
12628	12367	12373	12279	12109	11738	11460	10904	10629	10309	10667	10464	10089
12642	12469	12626	12499	12360	12070	11723	10994	10723	10002	10113	9923	9712
13278	13162	13405	13185	13110	12766	12486	11577	11260	10716	10812	10767	10184
13177	13084	12913	12768	12592	12404	12152	11439	11230	10930	10783	10123	9547
12863	12633	12680	12335	12192	11958	11737	11076	11300	11900	11363	10473	9800
13373	13133	13272	13020	12833	12500	12439	12681	12769	11914	11208	10355	9780
13375	13099	13230	13151	13246	13757	13831	13010	12641	11633	10874	9902	9144
14355	14175	14324	14164	14215	14983	15053	14278	13780	12918	12150	10951	9985

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
18963	19482	18709	18595	18621	20186	20029	19987	19907	19285	18064	17012	15952
18817	18855	18609	18365	18092	18669	19643	19878	19542	18841	17576	16547	15568
17160	17234	16533	16554	16179	16009	16657	18670	18421	17591	16315	15434	14451
15941	15848	15384	15563	15284	15071	14631	15054	16325	17183	15746	14706	13598
15683	15766	15223	15364	15171	14883	14547	14858	15107	16092	15467	14278	13094
15641	15566	15035	15152	14969	14691	14469	14477	14389	14724	14992	14457	12984
15841	15829	15410	15595	15422	14845	14480	14556	14384	14994	15248	14635	13340
16105	16093	15517	15676	15353	15233	14765	14919	15334	16546	15371	14469	13162
16027	16062	15594	15669	15511	15376	15076	16041	17526	16829	14939	14183	13075
17658	17477	16981	17019	16703	16580	18258	19535	19037	18393	16675	15800	14829
18400	18403	18208	18381	19105	19920	19541	19579	19090	18259	16927	15907	15185
18951	19090	18612	18747	20038	20937	20606	20499	20213	19400	18021	16911	15792

Hourly load values on the 3rd Wednesday in MW

Portugal

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	5585	4909	4511	4304	4215	4219	4316	4642	5648	6717	6941
18 / 2 / 2004	5348	4616	4261	4094	3972	3991	4127	4547	5364	6411	6633
17 / 3 / 2004	4997	4367	4082	3937	3881	3864	4000	4112	5023	5940	6118
21 / 4 / 2004	4976	4379	4067	3912	3840	3814	3933	4064	4888	5866	6173
19 / 5 / 2004	4829	4314	4010	3874	3741	3785	3860	3835	4692	5797	6069
16 / 6 / 2004	5088	4638	4291	4096	4083	4038	4032	4155	4978	6065	6390
21 / 7 / 2004	5113	4638	4324	4139	4106	4106	4171	4186	4939	5952	6333
18 / 8 / 2004	4505	4083	3796	3640	3566	3539	3616	3636	4034	4758	5161
15 / 9 / 2004	4783	4341	4026	3944	3883	3793	3923	4149	4607	5622	5888
20/ 10 / 2004	4758	4262	4006	3917	3857	3830	3943	4190	5087	5840	6146
17/ 11 / 2004	5401	4741	4481	4272	4181	4139	4313	4686	5398	6300	6539
15/ 12 / 2004	5859	5122	4746	4536	4454	4408	4559	4958	5844	6722	6921

Romania

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	5702	5682	5697	5777	5992	6611	7131	7137	7128	7149	7086
18 / 2 / 2004	5876	5888	5738	5904	6226	6744	7062	7190	7059	6995	7050
17 / 3 / 2004	5536	5516	5556	5598	5746	5971	6695	6840	6708	6667	6577
21 / 4 / 2004	5359	5150	5140	5266	5356	5686	6191	6219	6223	6164	6042
19 / 5 / 2004	5154	4959	5005	5088	5114	5558	6048	6305	6318	6212	6156
16 / 6 / 2004	4769	4804	4869	4829	4767	5051	5737	5897	5986	5950	6003
21 / 7 / 2004	4955	4877	4925	4996	4972	5145	5954	6183	6197	6206	6331
18 / 8 / 2004	4773	4615	4817	4798	4909	4943	5543	5792	6019	5911	5830
15 / 9 / 2004	4754	4784	4763	4821	5075	5378	5615	5918	5871	5752	5815
20/ 10 / 2004	5279	5190	5333	5287	5586	6307	6478	6555	6495	6510	6424
17/ 11 / 2004	5678	5652	5608	5871	6008	6691	6936	7126	6972	7066	6944
15/ 12 / 2004	6101	6061	5982	6292	6474	7197	7661	7699	7673	7769	7548

Slovenia

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	1244	1218	1162	1156	1204	1288	1587	1765	1791	1759	1747
18 / 2 / 2004	1250	1210	1200	1176	1188	1297	1602	1764	1830	1766	1768
17 / 3 / 2004	1303	1262	1226	1233	1244	1324	1615	1733	1738	1717	1710
21 / 4 / 2004	1259	1181	1118	1172	1170	1242	1556	1727	1715	1683	1674
19 / 5 / 2004	1212	1140	1112	1114	1138	1188	1444	1596	1642	1624	1623
16 / 6 / 2004	1192	1170	1124	1119	1111	1178	1462	1591	1650	1641	1637
21 / 7 / 2004	1251	1212	1151	1179	1175	1204	1461	1592	1674	1677	1675
18 / 8 / 2004	1240	1152	1144	1132	1150	1204	1412	1554	1643	1604	1631
15 / 9 / 2004	1183	1136	1092	1096	1105	1184	1467	1601	1659	1645	1647
20/ 10 / 2004	1256	1218	1181	1175	1157	1232	1577	1775	1764	1741	1734
17/ 11 / 2004	1331	1262	1216	1227	1241	1334	1661	1819	1840	1817	1822
15/ 12 / 2004	1391	1301	1300	1268	1297	1366	1679	1886	1920	1879	1868

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
7008	7047	6554	6755	6947	6886	6937	7294	7671	7628	7400	7217	6529
6696	6719	6295	6440	6667	6593	6616	6571	7247	7289	7037	6726	6200
6222	6268	5755	6006	6185	6102	6074	5911	6401	6706	6445	6161	5661
6383	6513	6043	6327	6490	6405	6294	5867	5731	5765	6207	6080	5581
6206	6338	5845	6087	6275	6225	6224	5889	5705	5623	5753	5905	5455
6578	6680	6238	6484	6677	6585	6590	6266	5977	5765	5652	6007	5747
6482	6595	6197	6460	6649	6615	6615	6296	6122	5941	5879	6198	5769
5366	5489	5243	5308	5356	5310	5254	5111	5015	5031	5454	5329	4982
6004	6101	5601	5955	6157	6117	6021	5736	5590	5914	6082	5742	5328
6232	6313	5844	6081	6331	6226	6160	5949	6222	6617	6233	5992	5394
6658	6670	6148	6357	6523	6472	6567	7297	7486	7456	7167	6845	6200
6982	6984	6461	6725	6847	6833	6983	7705	7844	7790	7500	7279	6745

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
7004	6967	6762	6720	6879	7310	7272	7138	6692	6417	5934	5811	5519
7064	6920	6648	6555	6510	6786	7268	7220	6958	6576	6114	5968	5859
6442	6372	6016	6050	5977	6112	6707	6972	6714	6250	5656	5742	5527
6069	6035	5713	5635	5540	5437	5520	5586	6411	6101	5720	5430	5170
6062	6084	5874	5818	5682	5612	5617	5623	5858	5905	5800	5347	5159
5923	5961	5751	5697	5620	5552	5425	5526	5698	6017	5706	5268	5094
6329	6225	6079	5893	5895	5772	5666	5712	5887	6439	5859	5318	5169
5917	5737	5555	5588	5584	5450	5261	5308	5773	5770	5569	5181	4992
5833	5802	5572	5549	5431	5415	5328	5933	6109	5789	5328	5097	4797
6392	6290	6132	5815	5638	5748	6586	6965	6741	6247	5778	5729	5450
6845	6891	6697	6731	7097	7668	7465	7355	6828	6306	6096	5958	5894
7576	7503	7213	7264	7676	8028	7817	7617	7458	6982	6385	6398	6188

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
1747	1740	1791	1746	1679	1725	1796	1798	1815	1713	1570	1491	1330
1767	1721	1784	1705	1654	1660	1704	1790	1782	1682	1541	1447	1340
1703	1696	1714	1669	1664	1605	1568	1740	1819	1702	1566	1469	1329
1701	1707	1664	1691	1639	1602	1527	1501	1551	1688	1623	1429	1334
1666	1665	1667	1667	1625	1575	1480	1511	1519	1584	1596	1433	1340
1658	1683	1669	1681	1664	1581	1527	1514	1555	1574	1560	1464	1361
1745	1735	1699	1735	1643	1620	1601	1551	1577	1543	1566	1482	1358
1675	1674	1649	1642	1586	1541	1496	1484	1512	1558	1225	1398	1321
1673	1700	1655	1637	1601	1569	1544	1602	1702	1683	1500	1363	1253
1755	1752	1743	1715	1666	1696	1659	1808	1846	1731	1592	1458	1369
1825	1806	1812	1766	1750	1835	1924	1947	1926	1806	1648	1525	1445
1879	1868	1863	1795	1789	1885	1930	1922	1896	1903	1656	1563	1446

Hourly load values on the 3rd Wednesday in MW

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
21 / 1 / 2004	3532	3415	3410	3361	3472	3658	4012	3939	3938	3925	3862
18 / 2 / 2004	3465	3388	3361	3384	3474	3599	3858	3857	3897	3929	3856
17 / 3 / 2004	3139	3023	2997	3032	3147	3192	3458	3534	3573	3515	3395
21 / 4 / 2004	2914	2794	2776	2731	2802	2888	3201	3248	3239	3187	3194
19 / 5 / 2004	2803	2640	2583	2606	2621	2783	3048	3138	3206	3219	3151
16 / 6 / 2004	2789	2667	2596	2583	2651	2728	3092	3140	3172	3190	3143
21 / 7 / 2004	2748	2685	2661	2642	2613	2725	2962	3111	3197	3146	3153
18 / 8 / 2004	2659	2510	2473	2501	2503	2614	2833	2991	3082	3058	3040
22 / 9 / 2004	2807	2694	2722	2718	2801	3000	3279	3387	3360	3336	3275
20/ 10 / 2004	3133	3012	2953	2959	3047	3290	3635	3617	3671	3554	3567
16/ 11 / 2004	3248	3062	3161	3112	3208	3408	3701	3676	3756	3747	3684
15/ 12 / 2004	3553	3477	3174	3347	3447	3680	4060	4046	4060	4196	4099

UCTE

Date	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00
21 / 1 / 2004	274188	264785	258021	253251	254301	266403	296299	325598	340131	344831	345736
18 / 2 / 2004	267868	259434	252623	248408	251159	264093	292188	320715	334723	340210	341297
17 / 3 / 2004	243381	234634	228162	225951	230383	244828	270470	295578	309516	312263	312641
21 / 4 / 2004	239367	229548	222766	219817	222752	235688	262553	288383	302736	306733	307984
19 / 5 / 2004	224680	214501	207875	203995	206243	215951	245089	272915	290691	296095	298154
16 / 6 / 2004	222753	213354	206525	202766	204814	213897	242954	272132	291812	298381	303461
21 / 7 / 2004	231291	222151	214130	209892	210660	218859	243274	270844	292047	303917	311331
18 / 8 / 2004	211891	202299	195089	191440	192435	201871	220196	242441	261175	271684	277829
15 / 9 / 2004	222508	213359	206982	204343	207663	222474	255483	282653	297612	304760	308194
20/ 10 / 2004	241343	230838	224656	221511	224793	239709	272196	302780	314468	317038	318761
17/ 11 / 2004	263168	252506	245076	240784	242643	257250	288487	317825	332735	337547	339078
15/ 12 / 2004	284588	277725	269787	264799	264913	278751	311323	343108	356270	359009	359002

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
3961	3954	3879	3944	3908	4167	4115	4112	4078	3923	3769	3809	3692
3870	3951	3882	3867	3874	3853	4025	4056	3973	3831	3698	3638	3584
3435	3450	3347	3367	3347	3347	3422	3727	3641	3516	3332	3297	3203
3183	3211	3152	3101	3064	3050	2991	3088	3259	3305	3089	3003	2914
3137	3202	3072	3101	3001	2987	2876	2997	3054	3180	3010	2930	2827
3192	3157	3026	3094	2999	3028	2954	2947	2941	3046	3028	2943	2893
3189	3164	3146	3161	3077	3059	3016	3057	3032	3063	3101	3053	2906
3115	3139	3010	3051	3003	2986	2829	2932	3076	3196	2933	2900	2769
3357	3315	3216	3203	3243	3184	3188	3479	3466	3294	3100	2987	2978
3496	3430	3437	3430	3361	3423	3480	3775	3685	3523	3319	3186	3213
3753	3812	3711	3785	3836	4004	3892	3903	3859	3661	3529	3482	3393
4162	4222	4056	4146	4252	4323	4194	4273	4094	3912	3891	3833	3709

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
344956	340186	338008	335734	334062	337805	350336	355601	346684	331444	315126	307126	292140
342022	336154	333193	329217	326513	325024	334842	349298	343475	328554	310843	301169	286106
311468	306624	302113	296347	291340	287014	289568	310534	318879	305731	286628	274238	258461
307600	302045	298948	294769	290280	284217	278435	278585	281515	287906	282732	269692	248973
298775	294690	291086	287251	282771	276866	272598	270096	266651	266156	265887	259124	239320
306149	301985	298204	295123	292194	288104	283528	280760	274820	270720	269185	266281	249004
314678	312533	309855	306777	303327	299475	293916	289684	282699	276363	274337	270120	251692
282286	280892	275721	272154	267218	263328	260721	260997	260734	262709	258382	247206	227590
309705	305086	301479	297697	294681	291246	287562	291373	299300	297513	279372	263409	244612
319426	313552	310147	305909	302911	299805	303802	320036	320041	305045	284633	271872	253555
338816	332782	330255	326932	327857	336652	347545	349151	337163	320460	301693	290103	271397
358156	352163	349797	346417	348169	361768	371650	372277	361853	345368	327341	316379	300264

Hourly load values on the 3rd Wednesday in MW

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
21 / 1 / 2004	2148	2140	2128	2112	2198	2437	3039	3548	3459	3489	3449
18 / 2 / 2004	2056	2004	1969	2018	2096	2363	2933	3234	3237	3262	3214
17 / 3 / 2004	1916	1890	1874	1883	1970	2239	2701	3039	2980	3016	3062
21 / 4 / 2004	1874	1831	1827	1851	1933	2142	2597	2952	2974	3024	3037
19 / 5 / 2004	1947	1912	1870	1886	1883	2073	2472	2825	2855	2926	2980
16 / 6 / 2004	1960	1898	1850	1820	1820	2017	2373	2761	2755	2859	2898
21 / 7 / 2004	1585	1512	1498	1512	1519	1628	1858	2191	2362	2423	2458
18 / 8 / 2004	1858	1798	1782	1802	1860	2023	2429	2819	2865	2982	3041
15 / 9 / 2004	1706	1728	1714	1761	1887	2139	2520	2837	2827	2913	2915
20/ 10 / 2004	1947	1887	1865	1907	1970	2251	2804	3136	3048	3045	3014
17/ 11 / 2004	1981	1944	1937	1962	2043	2341	2942	3335	3309	3352	3308
15/ 12 / 2004	2129	2028	2025	2026	2115	2367	3021	3465	3440	3463	3445

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
21 / 1 / 2004	668	653	660	678	667	765	823	860	849	862	779
18 / 2 / 2004	681	663	680	669	701	782	840	843	823	820	805
17 / 3 / 2004	603	580	575	574	607	668	691	713	732	728	692
21 / 4 / 2004	495	476	462	465	484	533	565	580	586	594	549
19 / 5 / 2004	483	462	462	485	485	517	575	608	606	599	584
16 / 6 / 2004	427	416	407	418	432	474	532	589	595	600	573
21 / 7 / 2004	458	435	435	440	437	480	506	596	586	583	575
18 / 8 / 2004	366	366	382	384	406	430	453	495	499	520	506
15 / 9 / 2004	458	449	456	461	483	574	585	573	595	570	557
20/ 10 / 2004	551	532	556	539	563	640	701	684	685	670	634
17/ 11 / 2004	607	607	606	612	645	712	723	758	803	789	770
15/ 12 / 2004	720	670	678	674	707	811	865	901	892	872	866

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
3314	3333	3286	3193	3125	3462	3553	3303	3071	2889	2699	2486	2288
3090	3063	3012	2937	2832	2942	3247	3136	2902	2718	2573	2364	2194
2922	2927	2910	2809	2624	2724	2838	2940	2837	2606	2401	2215	2036
2916	2956	2875	2751	2564	2622	2687	2557	2421	2461	2378	2134	1950
2845	2888	2814	2683	2521	2576	2664	2497	2332	2247	2267	2152	1921
2784	2870	2814	2740	2603	2663	2730	2613	2487	2398	2342	2318	2158
2409	2375	2374	2331	2233	2270	2410	2230	2074	1969	1982	1892	1719
2927	2968	2938	2858	2665	2757	2801	2581	2419	2386	2364	2154	1941
2840	2885	2900	2759	2644	2648	2671	2598	2560	2478	2346	2139	1915
2937	2997	2959	2927	2884	2988	3155	3064	2875	2677	2523	2278	2077
3213	3233	3197	3189	3102	3349	3371	3168	2955	2754	2616	2316	2073
3316	3368	3345	3258	3285	3517	3470	3247	3032	2847	2674	2389	2185

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
768	779	787	803	817	914	913	919	917	848	776	722	668
824	826	836	821	831	871	938	939	899	838	766	699	653
713	704	734	731	720	730	818	877	818	771	684	647	604
564	557	558	551	538	549	555	591	688	702	640	552	499
573	577	579	568	540	565	563	593	633	684	632	547	502
567	574	561	550	518	518	518	521	528	599	584	489	456
605	572	562	541	534	556	531	560	565	613	563	500	487
506	496	507	516	487	496	460	485	541	575	520	428	378
567	557	561	545	551	540	553	638	702	651	575	512	471
629	621	626	624	633	651	801	807	782	736	675	546	562
770	788	784	797	853	914	918	883	841	831	723	618	601
852	870	884	899	951	973	975	927	907	879	795	746	711

TABLES AND GRAPHS 3

Tables and graphs

III

Country	Thermal conventional TWh	Thermal conventional %	Thermal nuclear TWh	Thermal nuclear %	Hydropower TWh	Hydropower %	Total TWh	Representativity [1] %
AT	22,1	39,2	-	-	34,3	60,8	56,4	84
BA	6,6	52,5	-	-	6,0	47,5	12,6	99
BE	34,9	42,9	44,9	55,2	1,6	1,9	81,4 [2]	99
BG	21,2	51,6	16,6	40,5	3,3	7,9	41,1 [2]	100
CH	3,0	4,7	25,4	40,0	35,1	55,3	63,5 [2]	100
CS	25,3	65,4	-	-	13,4	34,6	38,7	96
CZ	50,6	64,9	24,8	31,8	2,5	3,2	77,9 [2]	100
DE	387,5	68,1	158,4	27,8	23,4	4,1	569,3 [2]	100
ES	148,4	61,1	60,9	25,0	33,8	13,9	243,0 [2]	94
FR	55,4	10,1	426,8	78,1	64,5	11,8	546,6	100
GR	44,2	90,0	-	-	4,9	10,0	49,2 [2]	100 [3]
HR	5,4	43,7	-	-	7,0	56,3	12,4 [2]	100
HU	19,4	62,9	11,2	36,4	0,2	0,6	30,8 [2]	100
IT	240,9	83,0	-	-	49,3	17,0	290,2	100
LU	3,1	77,3	-	-	0,9	22,7	4,0	98
MK	4,7	76,2	-	-	1,5	23,8	6,2 [2]	100
NL	91,0	96,2	3,6	3,8	-	-	94,6 [2]	100
PL	138,3	97,5	-	-	3,5	2,5	141,8 [2]	100
PT	28,7	72,9	-	-	10,7	27,1	39,4 [2]	95
RO	30,5	58,8	5,2	9,9	16,3	31,3	52,0 [2]	100
SI	4,6	34,5	5,2	38,7	3,6	26,8	13,5	95
SK	8,6	30,4	15,7	55,3	4,0	14,3	28,3 [2]	100
UCTE	**1374,6**	**55,2**	**798,7**	**32,0**	**319,6**	**12,8**	**2492,9** [2]	
DK_W	24,2	99,9	-	-	0,0	0,1	24,3 [2]	99
UA_W	7,5	98,2	-	-	0,1	1,8	7,7 [2]	100

[1] 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.)

[2] Including deliveries from industry

[3] The values for Greece refer to the interconnected system and not to the whole country.

Year	Thermal conventional TWh	Thermal nuclear TWh	Hydro power TWh	Total TWh
1975	585,4	50,0	222,9	858,3
1976	669,1	69,5	191,2	929,8
1977	610,4	82,2	276,2	968,8
1978	659,9	97,4	266,1	1023,4
1979	691,3	110,6	275,4	1077,3
1980	712,1	133,9	263,4	1109,4
1981	678,4	191,0	256,4	1125,8
1982	665,5	211,2	258,0	1134,7
1983	653,3	258,8	255,9	1168,0
1984	617,3	348,5	257,0	1222,8
1985	597,3	426,3	255,2	1278,8
1986	593,6	464,4	253,3	1311,3
1987	607,7	483,0	264,9	1355,6
1988	597,0	514,6	282,9	1394,5
1989	668,2	551,6	216,2	1436,0
1990	690,6	558,5	222,8	1472,0
1991	701,7	579,6	246,2	1527,5
1992	689,5	591,2	240,2	1520,9
1993	656,8	613,2	244,3	1514,3
1994	729,2	601,7	272,5	1603,3
1995 [1]	837,6	623,2	257,1	1717,9
1996	693,4	652,9	274,0	1620,3
1997	784,2	660,4	264,0	1708,7
1998 [2]	1057,7	689,5	284,4	2031,5
1999	1053,0	705,5	302,0	2060,5
2000	1093,4	733,8	305,1	2132,3
2001	1129,8	744,4	331,6	2205,8
2002	1187,3	757,8	276,1	2221,2
2003 [3]	1305,7	787,4	307,4	2400,5
2004	1374,5	798,7	319,7	2492,9

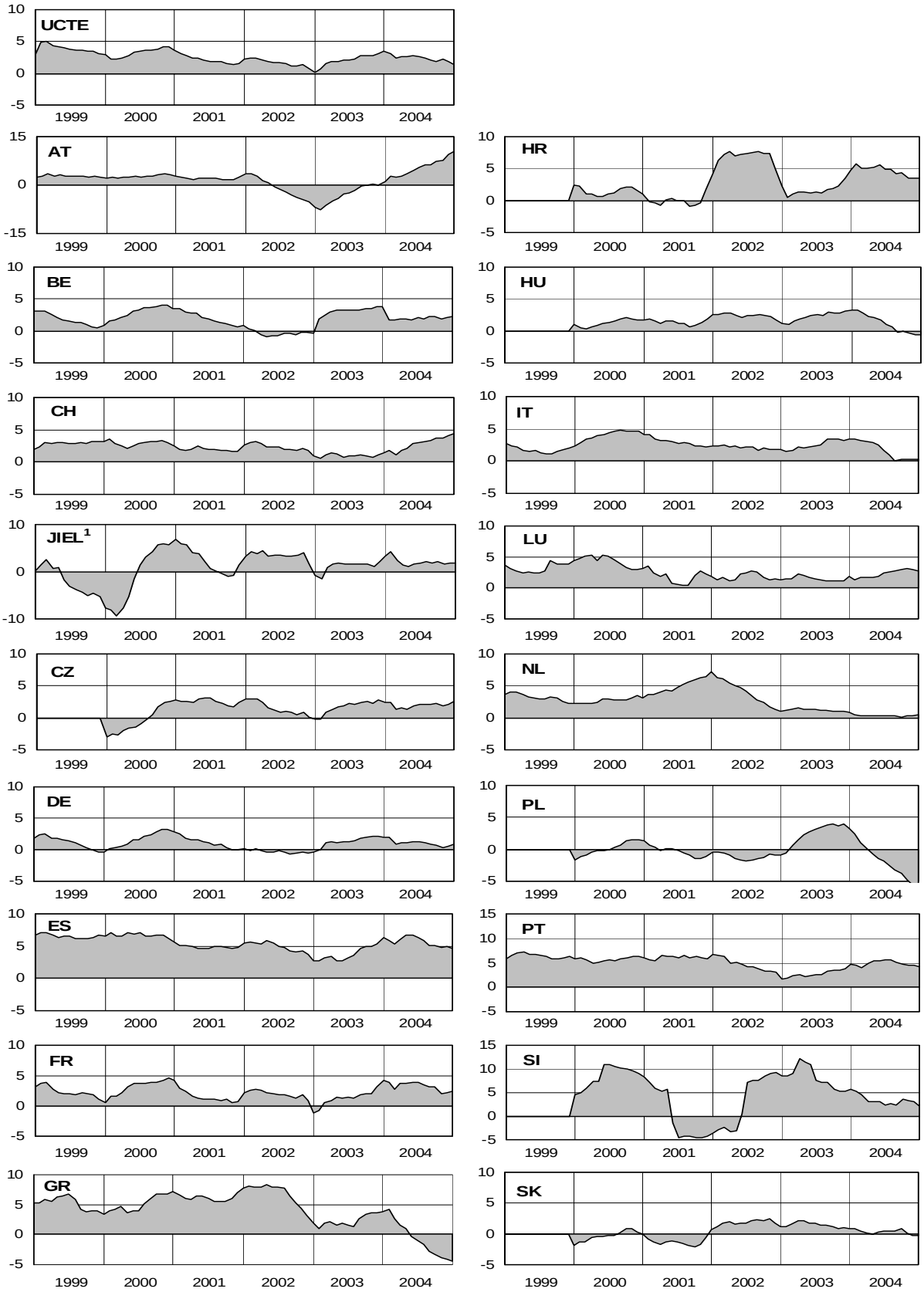
[1] As of September 1995 total German values
[2] Included values of CZ, HU, PL, SK as of 1998
[3] Included values of RO, BG as of 2003

T3 National electricity consumption and peak load

Country	National electricity consumption TWh	Δ %[1]	Persentage as refered total values[2] %	Peak load on the 3rd Wednesday MW	Date	Time
AT	56,6	10,3	90	8894	15 December	06:00 p.m.
BA	10,5	-15,9	99	1803	15 December	06:00 p.m.
BE	87,5	2,1	99	13325	15 December	07:00 p.m.
BG	35,0	-4,6	100	5949	15 December	08:00 p.m.
CH	60,4	1,9	100	9548	15 December	06:00 p.m.
CS	39,9	1,9	96	6867	15 December	06:00 p.m.
CZ	61,5	2,6	100	10097	15 December	06:00 p.m.
DE	552,7	1,8	100	74300	15 December	06:00 p.m.
ES	235,4	4,2	94	37196	15 December	07:00 p.m.
FR	477,2	2,7	100	79981	15 December	07:00 p.m.
GR	51,2	1,8	100 [3]	8507	21 July	01:00 p.m.
HR	16,0	3,4	100	2692	15 December	06:00 p.m.
HU	38,2	-0,5	100	6357	15 December	04:00 p.m.
IT	325,4	1,5	100	53093	15 December	06:00 p.m.
LU	6,3	2,8	99	952	17 November	10:00 a.m.
MK	7,4	2,4	100	1358	15 December	05:00 p.m.
NL	110,9	1,2	100	15053	15 December	06:00 p.m.
PL	130,3	-5,8	100	20937	15 December	05:00 p.m.
PT	45,5	2,3	95	7845	15 December	08:00 p.m.
RO	50,8	2,6	100	8028	15 December	05:00 p.m.
SI	12,7	2,2	95	1947	17 November	07:00 p.m.
SK	26,3	-0,3	100	4323	15 December	05:00 p.m.
UCTE	**2437,4**	**1,6**		**372278**	**15 December**	**07:00 p.m.**
DK_W	20,8	n.a.	99	3553	21 January	06:00 p.m.
UA_W	4,4	7,1	100	975	15 December	06:00 p.m.

[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.

G1 Variation of the last 12 months' consumption in %



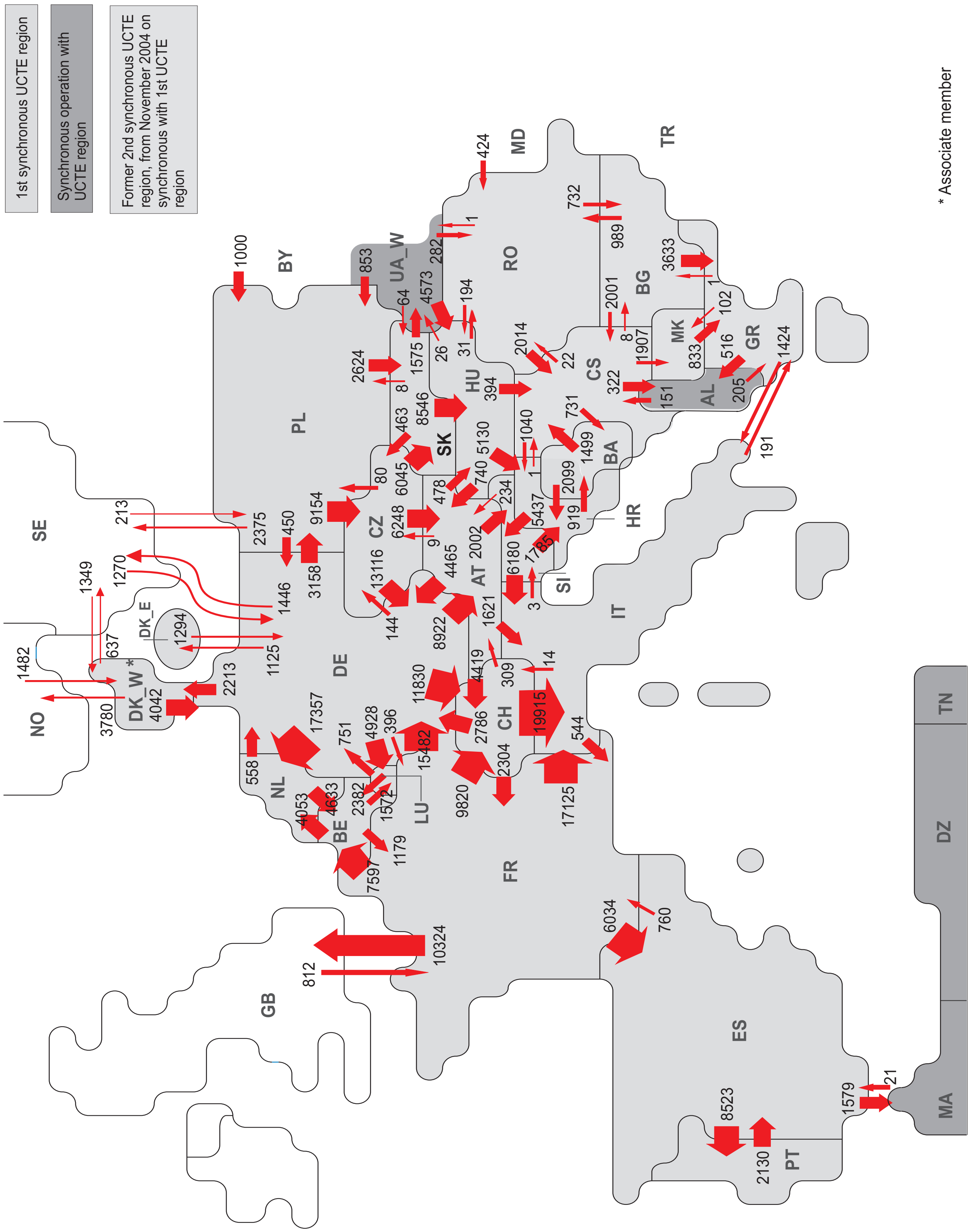
[1] JIEL = FRY + FYROM (Federal Republic of Yugoslavia and Former Yugoslav Republic of Macedonia)

T4 Development of power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.[1]

Month	GW	Month	GW	Month	GW	Month	GW	Month	GW	Month	GW
01/1981	**182,9**	**01/1985**	**224,6**	**01/1989**	**232,9**	01/1993	233,0	01/1997	306,2	01/2001	332,6
02/1981	184,0	02/1985	207,5	02/1989	228,7	02/1993	242,9	02/1997	291,8	02/2001	317,2
03/1981	175,8	03/1985	196,6	03/1989	218,4	03/1993	223,6	03/1997	279,2	03/2001	310,8
04/1981	159,0	04/1985	182,1	04/1989	215,7	04/1993	210,4	04/1997	279,8	04/2001	308,5
05/1981	159,2	05/1985	175,4	05/1989	203,3	05/1993	205,3	05/1997	266,4	05/2001	290,0
06/1981	161,0	06/1985	177,2	06/1989	205,8	06/1993	199,8	06/1997	267,0	06/2001	296,3
07/1981	155,2	07/1985	172,3	07/1989	197,0	07/1993	203,0	07/1997	263,1	07/2001	291,5
08/1981	***138,3***	***08/1985***	***157,9***	***08/1989***	***179,2***	***08/1993***	***190,7***	***08/1997***	***243,6***	***08/2001***	***242,8***
09/1981	164,8	09/1985	180,2	09/1989	203,3	09/1993	213,2	09/1997	266,3	09/2001	296,6
10/1981	170,6	10/1985	184,2	10/1989	207,4	10/1993	224,1	10/1997	283,6	10/2001	300,3
11/1981	181,1	11/1985	209,8	11/1989	225,3	11/1993	228,4	11/1997	293,9	11/2001	329,5
12/1981	**191,3**	12/1985	205,2	12/1989	223,3	**12/1993**	**245,6**	**12/1997**	**316,0**	**12/2001**	**343,4**
01/1982	187,3	01/1986	206,1	01/1990	233,5	**01/1994**	**254,4**	**01/1998**	**313,9**	01/2002	336,2
02/1982	190,4	**02/1986**	**215,1**	02/1990	214,3	02/1994	243,5	02/1998	294,4	02/2002	323,8
03/1982	181,7	03/1986	192,7	03/1990	209,7	03/1994	223,9	03/1998	294,1	03/2002	305,0
04/1982	170,9	04/1986	192,8	04/1990	219,6	04/1994	227,3	04/1998	292,0	04/2002	306,1
05/1982	162,4	05/1986	182,6	05/1990	204,4	05/1994	215,2	05/1998	265,4	05/2002	290,7
06/1982	164,6	06/1986	182,3	06/1990	207,5	06/1994	213,6	06/1998	271,0	06/2002	305,0
07/1982	151,6	07/1986	176,7	07/1990	204,8	07/1994	212,8	07/1998	267,8	07/2002	292,7
08/1982	***138,5***	***08/1986***	***161,7***	***08/1990***	***164,0***	***08/1994***	***193,8***	***08/1998***	***252,0***	***08/2002***	***268,0***
09/1982	164,3	09/1986	190,8	09/1990	209,8	09/1994	221,1	09/1998	280,0	09/2002	294,5
10/1982	168,5	10/1986	185,3	10/1990	210,8	10/1994	223,8	10/1998	289,3	10/2002	303,8
11/1982	178,8	11/1986	199,2	11/1990	226,6	11/1994	227,9	11/1998	308,9	11/2002	327,3
12/1982	**190,8**	12/1986	207,6	**12/1990**	**249,4**	12/1994	243,9	12/1998	311,5	**12/2002**	**344,4**
01/1983	187,7	**01/1987**	**231,7**	01/1991	244,3	01/1995	254,6	**01/1999**	307,3	01/2003	361,7
02/1983	**197,6**	02/1987	215,6	02/1991	242,5	02/1995	235,4	02/1999	313,8	**02/2003**	**369,2**
03/1983	180,8	03/1987	208,1	03/1991	214,9	03/1995	237,6	03/1999	291,4	03/2003	328,1
04/1983	172,1	04/1987	195,9	04/1991	216,6	04/1995	227,1	04/1999	285,7	04/2003	314,0
05/1983	167,4	05/1987	193,1	05/1991	214,0	05/1995	223,6	05/1999	273,0	05/2003	313,9
06/1983	165,2	06/1987	189,8	06/1991	211,5	06/1995	220,3	06/1999	280,1	06/2003	319,1
07/1983	158,3	07/1987	188,2	07/1991	208,4	07/1995	220,2	07/1999	277,2	07/2003	318,3
08/1983	***141,0***	***08/1987***	***167,0***	***08/1991***	***189,7***	***08/1995***	***189,6***	***08/1999***	***255,1***	***08/2003***	***288,7***
09/1983	168,3	09/1987	193,4	09/1991	208,9	09/1995	232,7	09/1999	278,0	09/2003	309,5
10/1983	170,5	10/1987	196,5	10/1991	214,5	10/1995	265,4	10/1999	296,2	10/2003	320,4
11/1983	184,3	11/1987	204,7	11/1991	237,5	11/1995	285,4	11/1999	308,5	11/2003	338,1
12/1983	188,7	12/1987	216,1	**12/1991**	**245,3**	**12/1995**	**300,4**	**12/1999**	**319,1**	12/2003	356,9
01/1984	192,0	01/1988	211,4	**01/1992**	**245,9**	**01/1996**	**305,8**	01/2000	321,0	01/2004	361,1
02/1984	**197,1**	02/1988	209,3	02/1992	242,8	02/1996	302,0	02/2000	312,9	02/2004	352,1
03/1984	182,5	03/1988	208,0	03/1992	219,6	03/1996	284,4	03/2000	297,4	03/2004	324,7
04/1984	174,4	04/1988	194,3	04/1992	223,0	04/1996	266,9	04/2000	293,4	04/2004	318,4
05/1984	174,4	05/1988	192,6	05/1992	208,4	05/1996	264,3	05/2000	285,5	05/2004	310,4
06/1984	169,3	06/1988	193,3	06/1992	201,7	06/1996	263,3	06/2000	296,2	06/2004	313,9
07/1984	164,0	07/1988	188,4	07/1992	205,5	07/1996	259,0	07/2000	285,4	07/2004	326,8
08/1984	***152,5***	***08/1988***	***171,3***	***08/1992***	***187,4***	***08/1996***	***241,9***	***08/2000***	***259,1***	***08/2004***	***289,9***
09/1984	175,7	09/1988	197,9	09/1992	209,3	09/1996	267,5	09/2000	290,1	09/2004	318,1
10/1984	175,2	10/1988	197,5	10/1992	226,1	10/1996	276,0	10/2000	298,7	10/2004	331,4
11/1984	187,8	11/1988	215,8	11/1992	229,5	11/1996	296,7	11/2000	316,4	11/2004	352,8
12/1984	196,6	**12/1988**	**227,7**	12/1992	235,7	12/1996	304,0	**12/2000**	**324,3**	**12/2004**	**371,0**

[1] Including Denmark from 01/1990, German total values from 09/1995 on, the former CENTREL countries CZ, HU, PL, SK from 10/1995 and RO, BG from 1/2003 on.

Physical energy flows 2004 in GWh



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

[1] import + export
[2] As of September 1995 total German values
[3] From year 2001 sum of exchanges include CZ, HU, PL SK
[4] From year 2003 sum of exchanges include RO and BG

Control area	Export Programs	Import Programs	Export Programs at 03:00	Import Programs at 03:00	Export Programs at 11:00	Import Programs at 11:00
AT	4933502	5737947	6488	4876	10567	8507
BA	2148113	1333896	3766	800	3638	755
BE	6055343	13043280	7075	14799	4626	17986
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	25348457	26157095	24493	42494	47094	30927
CS	4446277	6364307	5210	6842	6874	11208
CZ	22559666	6643177	31510	7224	32143	12654
DE	39001122	34158451	44609	38345	44643	57678
ES	11319998	7979215	14650	13392	17779	13646
FR	89597516	29161718	117896	26816	116126	37312
GR	1552531	4380285	2610	4952	2620	7156
HR	3666533	7293600	5538	7043	3969	5403
HU	3055517	10523746	5244	13043	3641	17402
IT	754149	46282345	445	59155	1540	68082
MK	552000	1739500	1977	2732	2814	4590
NL	5882189	22075449	13808	21942	12039	27879
PL	11359658	1807560	11308	3681	22473	2341
PT	976096	7459681	250	11814	4378	11372
RO	5701074	3112996	6152	4148	8163	4161
SI	7083150	6312095	10090	8971	9840	8822
SK	7130506	4517739	9280	3950	10723	8566
DK_W	8134240	4988162	10699	8806	13437	6813
UA_W	3261216	0	4394	0	5864	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 (MWh).

- This values are not the provisional values entered in the VULCANUS system, but the definitive values after an eventual correction during the actual date.

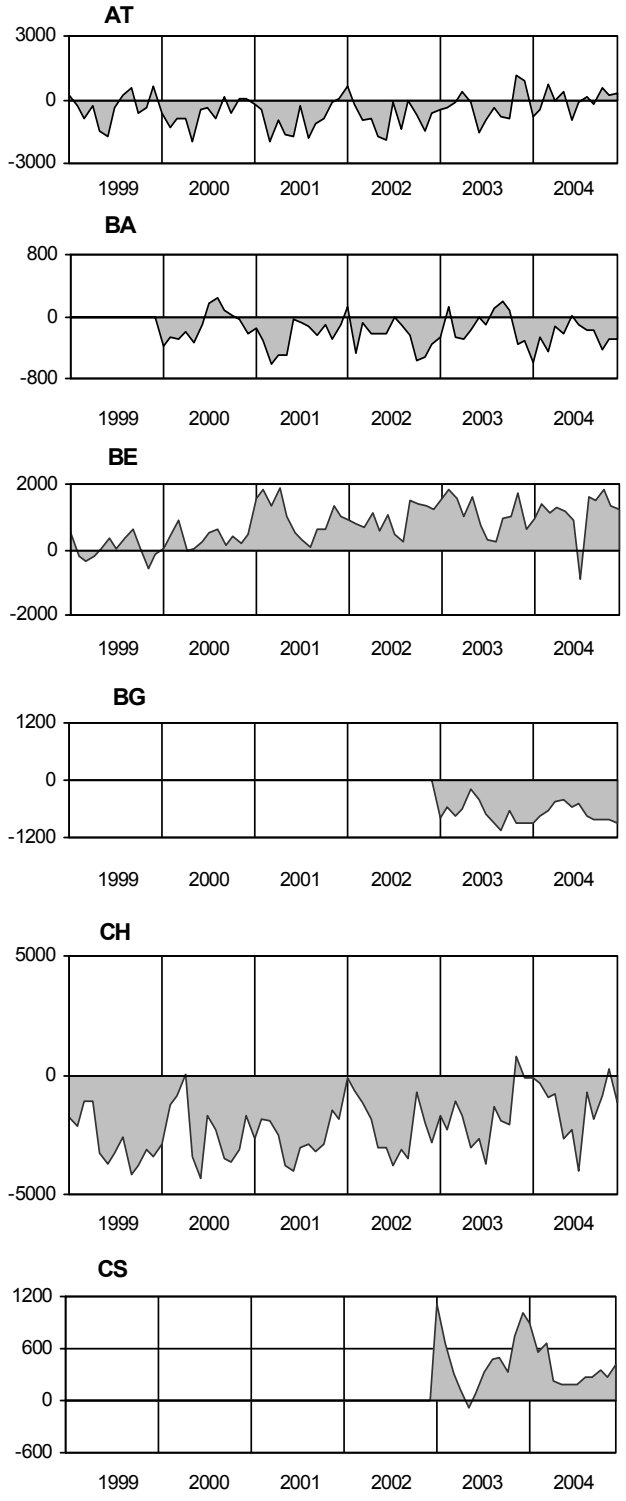
- Export Programs: Sum of all positive values of every hour of every border
- Import Programs: Sum of all negative values of every hour of every border

- Export Programs at 03:00: Sum of all positive values the third Wednesday from 02:00 to 03:00 a.m.
- Import Programs at 03:00: Sum of all negative values the third Wednesday from 02:00 to 03:00 a.m.

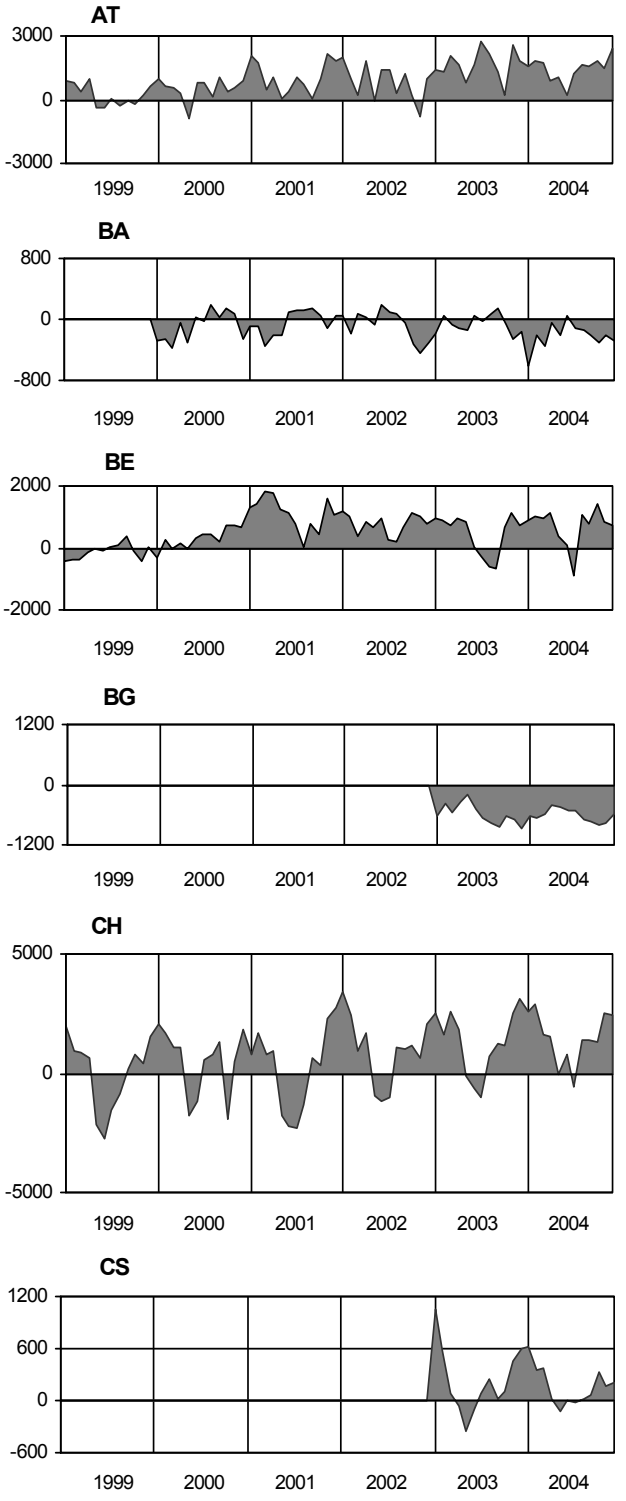
- Export Programs at 11:00: Sum of all positive values the third Wednesday from 10:00 to 11:00 a.m.
- Import Programs at 11:00: Sum of all negative values the third Wednesday from 10:00 to 11:00 a.m

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

11:00 Day load in MW [1]



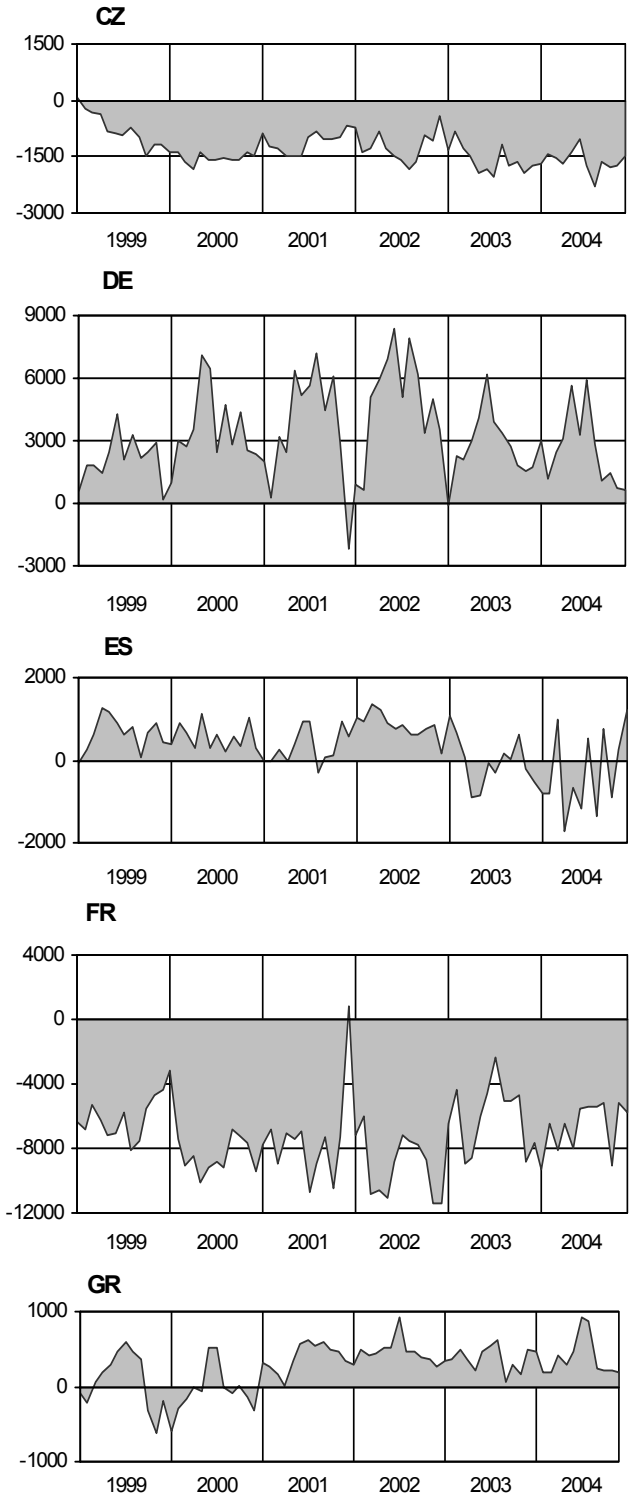
03:00 Night load in MW [1]



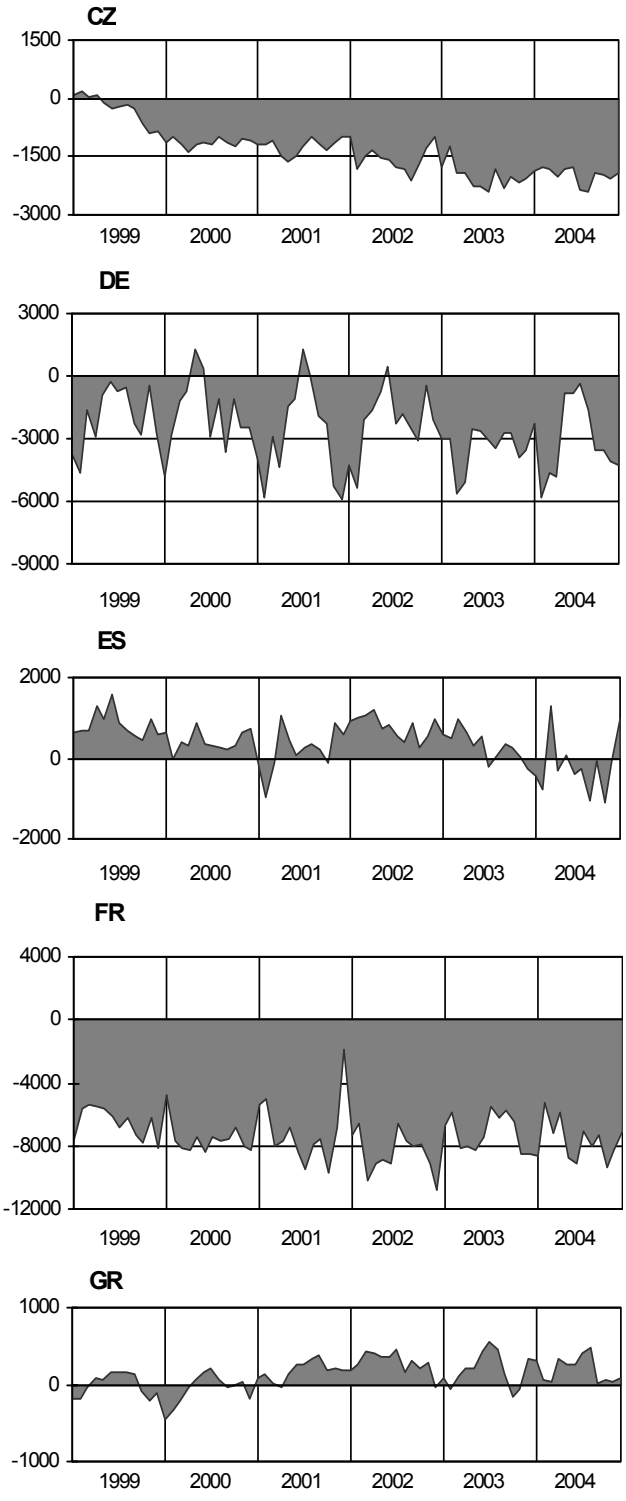
[1] On the third Wednesday of each month

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

11:00 Day load in MW [1]



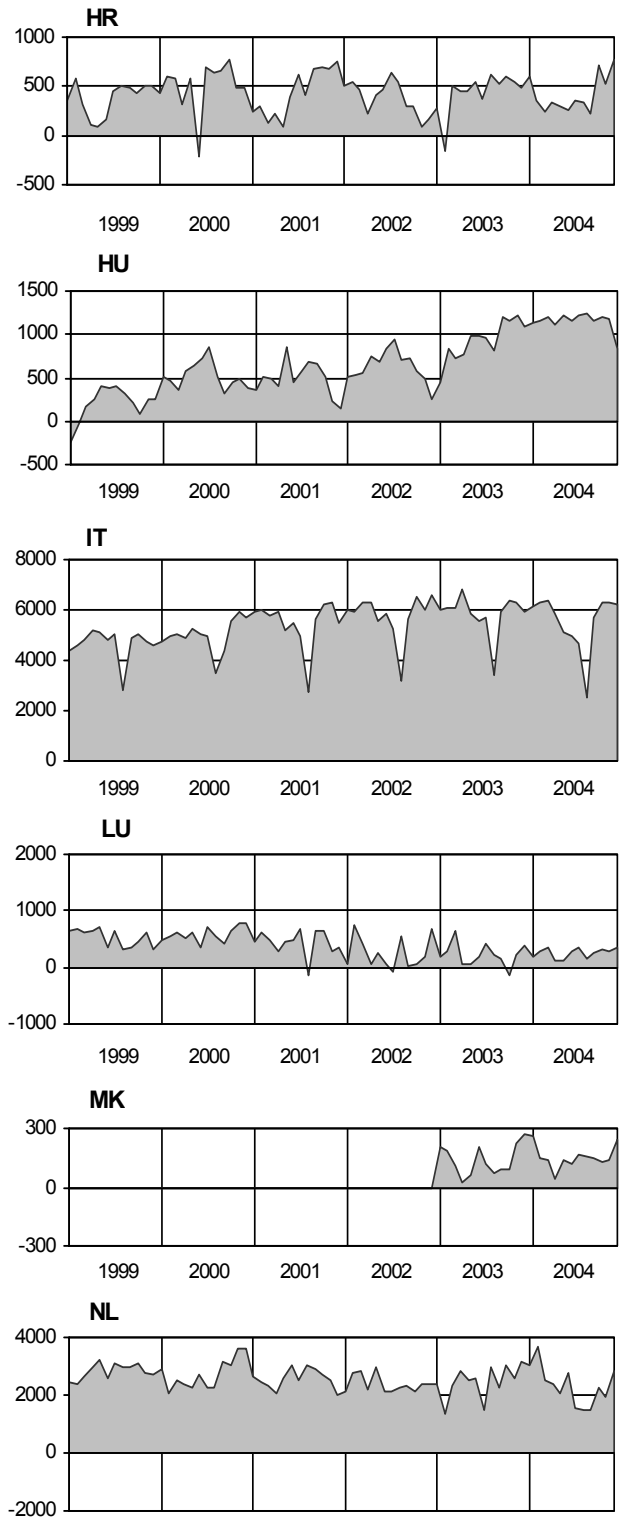
03:00 Night load in MW [1]



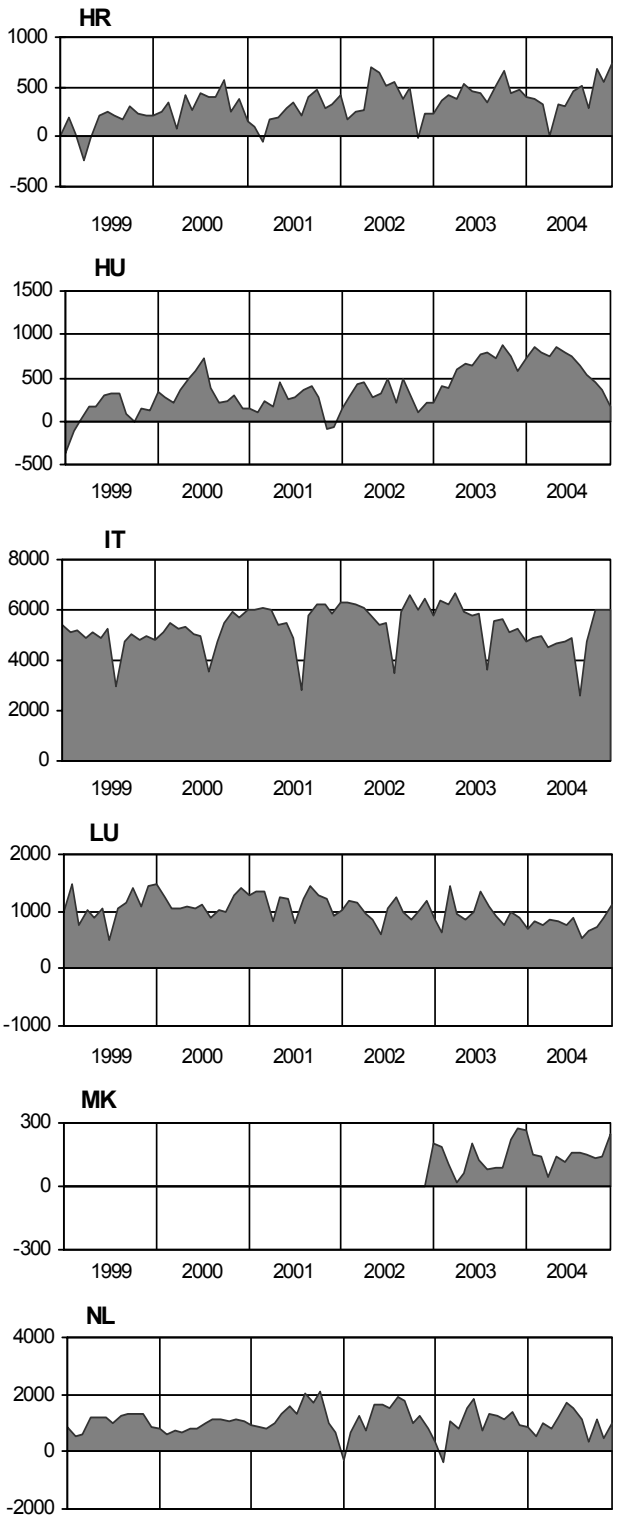
[1] On the third Wednesday of each month

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

11:00 Day load in MW [1]



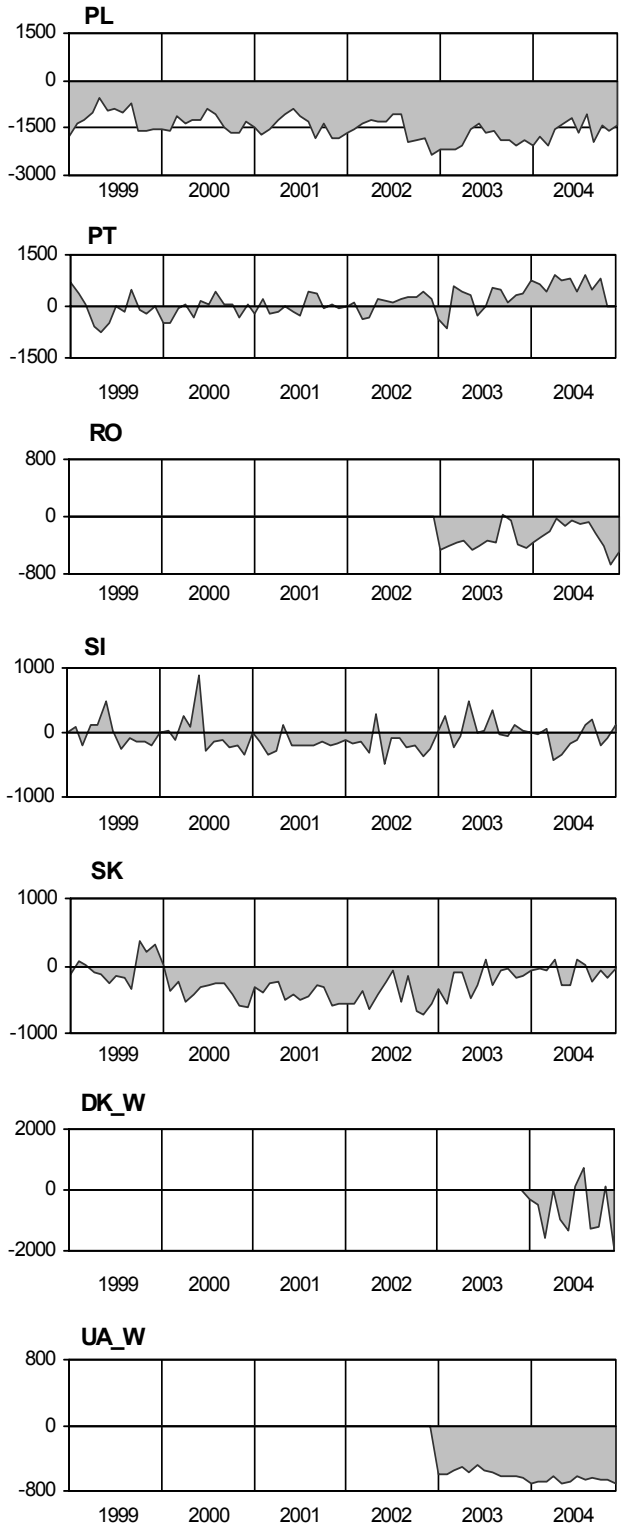
03:00 Night load in MW [1]



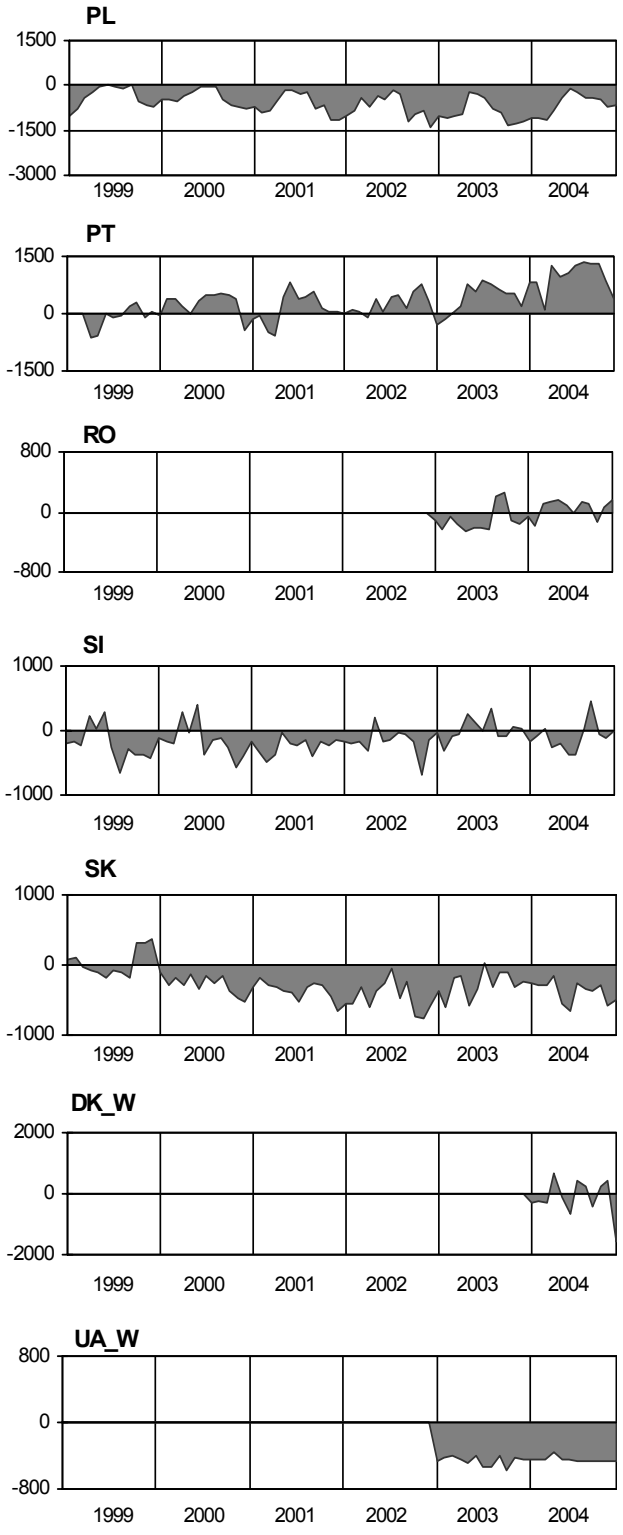
[1] On the third Wednesday of each month

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] On the third Wednesday of each month

T6 Development of the balance of the simultaneous power flows across the frontiers of the UCTE countries [1]

MW

Date	Night	Day
I.1999	17246	12177
II.1999	16764	12562
III.1999	14455	12929
IV.1999	16866	15351
V.1999	12400	15475
VI.1999	12526	15400
VII.1999	12755	15345
VIII.1999	9854	13951
IX.1999	14241	16205
X.1999	14959	14752
XI.1999	13756	13180
XII.1999	15628	10459
I.2000	17024	11724
II.2000	17664	14630
III.2000	17267	15400
IV.2000	16786	15903
V.2000	12996	18659
VI.2000	14341	18620
VII.2000	16139	15145
VIII.2000	13993	16018
IX.2000	15786	14995
X.2000	13951	16251
XI.2000	17709	16831
XII.2000	18891	17040
I.2001	19241	15530
II.2001	20576	16165
III.2001	19726	17651
IV.2001	19632	15559
V.2001	15655	17735
VI.2001[2]	21017	24715
VII.2001	19222	25324
VIII.2001	17476	22151
IX.2001	24340	23573
X.2001	24983	25279
XI.2001	28571	24405
XII.2001	27423	21122

Date	Night	Day
I.2002	28647	23600
II.2002	28364	24882
III.2002	23176	25924
IV.2002	25500	24720
V.2002	22660	26484
VI.2002	21746	24905
VII.2002	23635	24549
VIII.2002	21967	23121
IX.2002	26098	22894
X.2002	24076	24634
XI.2002	22212	25754
XII.2002	27435	25747
I.2003[3]	28921	24641
II.2003	24316	22212
III.2003	29221	26150
IV.2003	28527	26909
V.2003	25320	24900
VI.2003	25915	25054
VII.2003	24493	20980
VIII.2003	24256	22918
IX.2003	26076	24320
X.2003	23730	23139
XI.2003	29334	29503
XII.2003	28642	28666
I.2004	26336	26954
II.2004	27452	27601
III.2004	24520	25689
IV.2004	23264	23332
V.2004	21353	24641
VI.2004	21719	21271
VII.2004	21893	23480
VIII.2004	18957	18405
IX.2004	26624	24670
X.2004	28075	28255
XI.2004	29424	26969
XII.2004	34232	27561

[1] Day load at 11.00 a.m. and night load at 3.00 a.m. on the third Wednesday of each month. The power flows crossing common borders with neighbouring third countries are excluded.
[2] As of June 2001 the power flows include CENTREL countries CZ, HU, PL and SK,
[3] From year 2003 the power flows include RO and BG

T7 Maximum output capacity on 31 December 2004

Country	Thermal conventional MW	Δ%[2]	Thermal nuclear MW	Δ%[2]	Hydropower MW	Δ%[2]	Other sources MW	Δ%[2]	Total MW	Δ%[2]	Representativity [1] %
AT[3]	5900	n.a.	-	-	11700	n.a.	670	n.a.	18270	n.a.	100
BA	1957	0,0	-	-	2064	1,5	-	-	4062	0,8	99
BE	7998	-2,1	5802	0,7	1416	0,6	394	58,9	15610	0,2	99
BG	6420	n.a.	2880	n.a.	2930	n.a.	-	n.a.	12230	n.a.	100
CH	320	4,9	3220	0,0	13315	0,2	540	4,9	17395	0,4	100
CS	6400	0,0	-	-	3497	0,0	-	-	9897	0,0	96
CZ	10591	0,6	3537	0,0	2138	0,5	20	81,8	16286	0,5	100
DE	68100	0,6	20500	0,0	9000	11,1	17300	16,1	114900	3,3	90
ES	32964	19,4	7600	-1,2	18491	1,5	9196	74,0	68251	16,1	100
FR	26908	16,1	63363	0,0	25394	5,7	1056	255,6	116721	2,1	100
GR	7212	2,1	-	-	3060	0,0	380	7,3	10652	1,7	100 [4]
HR	1662	-0,5	-	-	2079	0,4	5	0,0	3746	0,1	100
HU	5685	0,5	1755	0,0	46	-4,2	790	46,8	8276	3,5	100
IT	58990	5,3	-	-	20744	0,4	1777	15,2	81511	4,2	100
LU	477	0,6	-	-	1128	0,0	60	39,5	1665	1,2	96
MK	907	0,0	-	-	503	20,3	-	-	1410	6,4	100
NL	18770	4,0	449	0,0	37	0,0	1896	-6,5	21152	2,9	100
PL	29350	-0,3	-	-	2193	0,0	145	98,6	31688	-0,1	100
PT	6178	8,0	-	-	4717	3,6	825	113,2	11720	7,6	94
RO	10081	3,1	655	0,0	6007	0,6	-	-	16743	2,1	100
SI	1262	0,0	670	0,0	862	2,6	-	-	2794	0,8	100
SK	2290	0,0	2640	0,0	2429	0,0	699	-0,1	8058	0,0	100
UCTE[5]	**310422**	**7,0**	**113071**	**2,6**	**133750**	**4,7**	**35753**	**29,6**	**592996**	**5,7**	
DK_W	5098	0,3	-	-	11	0,0	2379	0,2	7488	-0,7	100
UA_W	2347	0,0	-	-	27	0,0	-	-	2374	0,0	100

[1] 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.)
[2] As compared to the last year
[3] Values as of 31 December 2003
[4] The values for Greece refer to the interconnected system and not to the whole country.
[5] Without Bulgarian values 2003

T8a

UCTE System Adequacy Retrospect 2004, Power Data

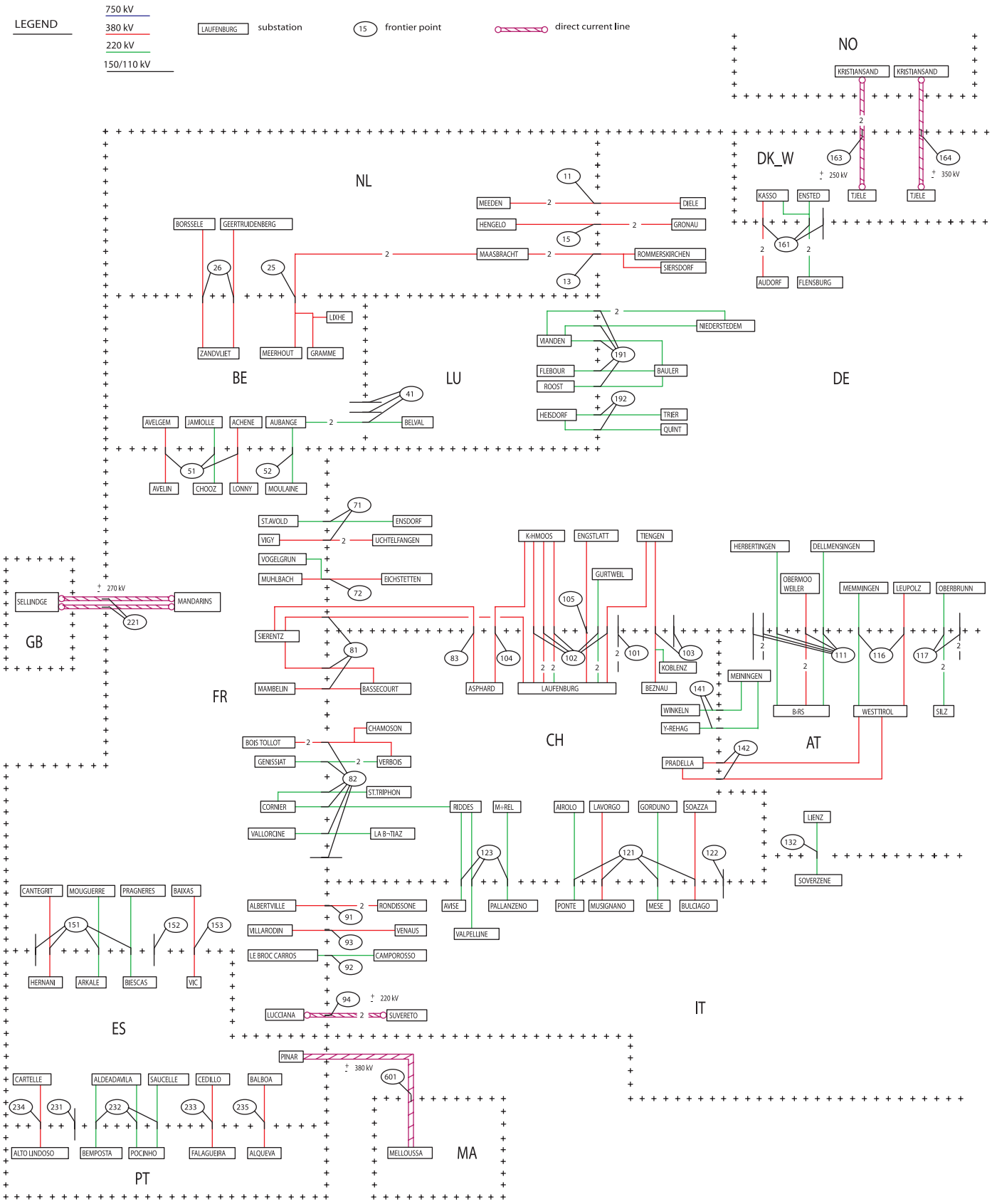
net values at the refence time 11:00 a.m. on the 3rd Wednesday of each month (Data published on 1 June 2005) Values in GW

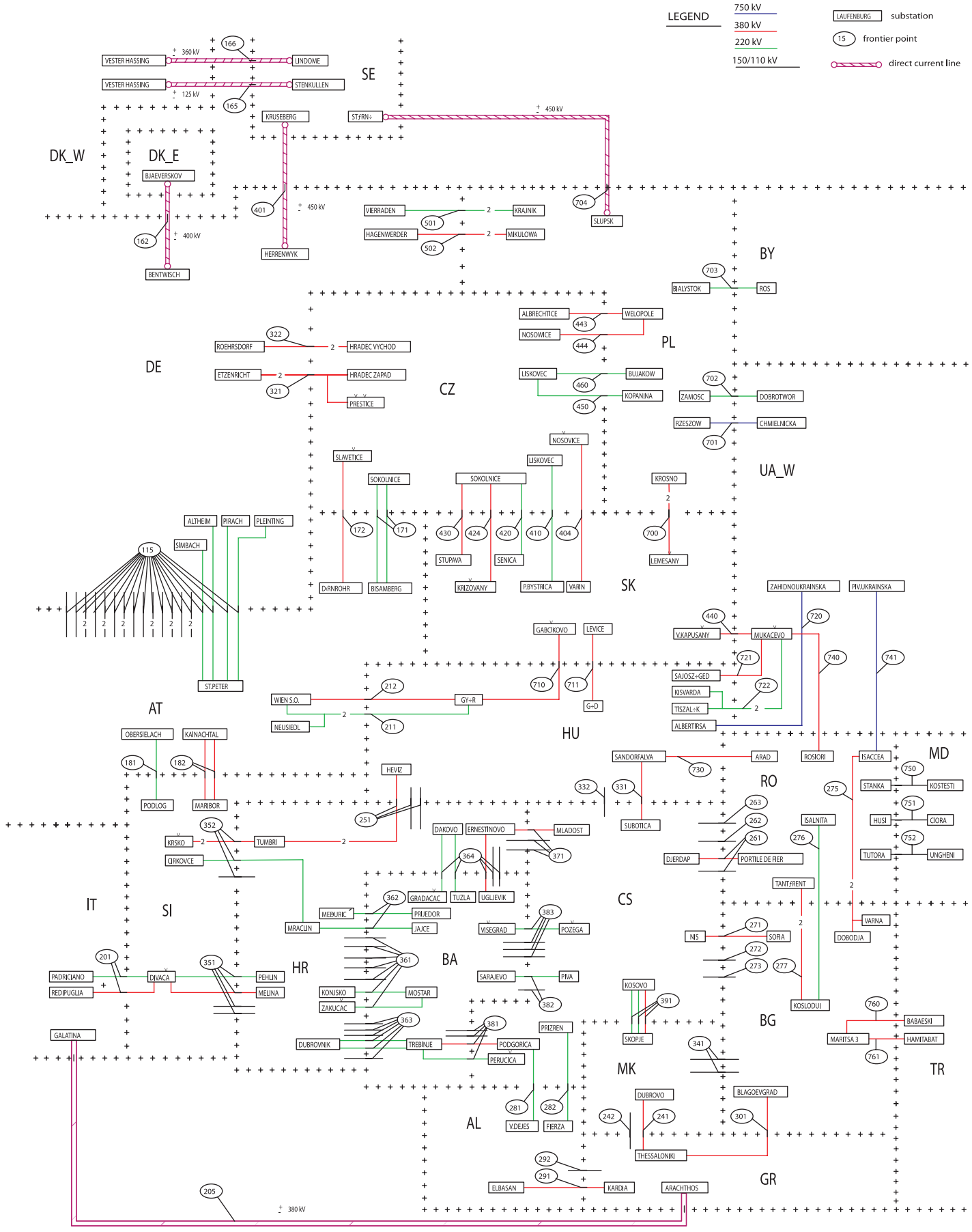
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
National generating capacity												
1. Hydro power stations	132.2	132.2	132.3	132.1	132.1	132.3	132.5	132.4	132.4	132.5	132.6	132.6
2. Nuclear power stations	113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3
3. Conventional thermal power stations	303.4	303.6	304.4	305.9	306.6	307.1	309.0	311.0	311.4	311.8	312.3	312.6
4. Renewable energy sources	27.7	28.2	28.6	29.0	29.4	29.6	30.1	30.6	30.8	31.5	32.1	32.9
5. Not clearly identifable energy sources	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
6. National generating capacity (6 = 1+2+3+4+5)	**578.4**	**579.0**	**580.3**	**582.1**	**583.1**	**584.1**	**586.7**	**589.1**	**589.7**	**591.0**	**592.0**	**593.2**
7. Non-usable capacity	100.7	101.4	106.6	108.6	109.0	112.8	117.0	119.8	114.4	106.4	107.6	109.7
8. Overhauls (thermal power stations)	11.6	18.5	31.9	45.8	56.5	52.8	47.6	51.7	41.5	36.6	25.2	7.9
9. Outages (thermal power stations)	15.2	17.2	19.2	15.7	16.8	13.1	15.2	16.9	20.2	17.1	12.4	15.8
10. System services reserve	31.5	28.3	29.1	28.2	27.0	27.0	26.6	29.3	26.2	29.3	31.0	28.7
11. Reliably available capacity (11 = 6-(7+8+9+10))	**419.4**	**413.6**	**393.4**	**383.7**	**373.8**	**378.4**	**380.3**	**371.3**	**387.4**	**401.5**	**416.0**	**431.2**
12. Load	**348.1**	**343.1**	**314.6**	**309.1**	**299.4**	**304.6**	**312.7**	**279.7**	**310.2**	**320.5**	**342.0**	**360.6**
13. Margin against monthly peak load	31.5	30.4	45.9	34.7	29.0	24.1	21.1	45.3	25.4	24.4	35.2	31.0
14. Remaining capacity without exchanges (14 = 11-12)	**71.2**	**70.5**	**78.9**	**74.6**	**74.4**	**73.8**	**67.6**	**91.6**	**77.2**	**80.9**	**74.0**	**70.6**
Physical exchanges												
15. Import	38.2	39.1	37.1	33.6	33.2	30.0	33.1	28.8	34.3	37.3	39.8	38.2
16. Export	37.0	35.6	33.4	31.8	32.9	30.4	33.9	29.9	34.9	38.8	36.2	34.7
17. **Physical exchange balance (17=15-16)**	**1.2**	**3.4**	**3.7**	**1.8**	**0.3**	**- 0.4**	**- 0.8**	**- 1.2**	**- 0.5**	**- 1.5**	**3.6**	**3.4**
18. Remaining capacity with exchange (18=14+17)	**72.4**	**73.9**	**82.6**	**76.4**	**74.7**	**73.3**	**66.8**	**90.5**	**76.6**	**79.4**	**77.6**	**74.0**

T8b | **UCTE System Adequacy Retrospect 2004, Energy Data (Data published on 1 June 2005)** | **Values in TWh**

	AT	BA	BE	BG	CH	CS	CZ	DE	ES	FR	GR	HR	HU	IT	LU	MK	NL	PL	PT	RO	SI	SK	UCTE	UA_W
Generation																								
1. Hydro power stations	34.4	6.0	1.6	3.3	35.1	13.4	2.6	26.7	33.9	64.5	4.9	7.0	0.2	47.9	0.8	1.5	0.1	3.5	9.9	16.3	3.6	4.0	**321.3**	0.1
2. Nuclear power stations	0.0	0.0	44.9	15.4	25.4	0.0	24.8	158.4	60.9	426.8	0.0	0.0	11.2	0.0	0.0	0.0	3.6	0.0	0.0	5.1	5.2	15.7	**797.5**	0.0
3. Conventional thermal power stations	17.2	6.6	34.8	16.7	2.9	25.3	50.5	352.2	129.4	51.8	43.2	5.4	16.6	231.8	3.1	4.7	86.4	138.3	27.8	30.5	4.6	6.0	**1293.4**	7.5
4. Renewable energy. sources	1.4	0.0	0.1	0.0	0.9	0.0	0.0	32.8	18.7	3.5	1.0	0.0	0.8	6.9	0.1	0.0	4.0	0.4	1.7	0.0	0.0	0.0	**72.3**	0.0
5. Not clearly identified energy sources	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	**9.4**	0.0
6.Total (6 = 1+2+3+4+5)	**57.8**	**12.6**	**81.4**	**35.4**	**64.4**	**38.7**	**77.9**	**570.1**	**242.9**	**546.6**	**49.1**	**12.4**	**30.8**	**286.6**	**4.0**	**6.2**	**94.1**	**142.2**	**39.4**	**51.9**	**13.4**	**28.3**	**2493.9**	**7.7**
7. Exchanges (7 = 7a - 7b)	**3.2**	**-1.9**	**7.8**	**-5.9**	**0.8**	**2.0**	**-15.7**	**-7.3**	**-3.0**	**-62.1**	**2.8**	**3.7**	**7.5**	**45.7**	**3.4**	**1.2**	**16.2**	**-9.3**	**6.5**	**-1.1**	**-0.8**	**-1.9**	**-11.5**	**-3.3**
7a. Import	16.5	1.7	14.6	0.7	26.1	6.0	9.8	44.2	8.1	6.6	4.9	10.1	13.8	46.5	6.5	2.0	21.4	5.3	8.6	1.7	4.3	8.7	**269.6**	1.6
7b. Export	13.3	3.6	6.8	6.6	25.3	4.0	25.5	51.5	11.1	68.7	2.0	6.4	6.3	0.8	3.1	0.8	5.2	14.6	2.1	3.0	5.0	10.6	**281.2**	4.9
8. Pumped storage	3.0	0.0	1.7	0.3	2.4	0.8	0.7	7.9	4.6	7.3	0.8	0.1	0.0	10.3	1.1	0.0	0.0	2.2	0.4	0.0	0.0	0.1	**43.8**	0.0
9. Consumption (9 = 6+7-8))	**56.6**	**10.7**	**87.5**	**29.5**	**60,0**	**39.9**	**61.5**	**554.0**	**235.1**	**477.2**	**51.2**	**16.0**	**38.3**	**322.0**	**6.3**	**7.4**	**111.1**	**130.6**	**45.5**	**50.7**	**12.6**	**26.3**	**2434.5**	**4.4**

UCTE Cross-fontier lines as of 31 December 2004




LEGEND
750 kV
380 kV
220 kV
150/110 kV
LAUFENBURG substation
15 frontier point
direct current line
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LINDOME
STENKULLEN
KRUSEBERG
HERRENWYK
BJAEVERSKOV
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KRAJNIK
HAGENWERDER
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LISKOVEC
BUJAKOW
KOPANINA
ZAMOSC
DOBROTWOR
RZESZOW
CHMIELNICKA
ROEHRSDORF
HRADEC VYCHOD
ETZENRICHT
HRADEC ZAPAD
PRESTICE
SLAVETICE
SOKOLNICE
NOSOVICE
KROSNO
LEMESANY
STUPAVA
SENICA
KRIZOVANY
P.BYSTRICA
VARIN
D.RNROHR
BISAMBERG
ALTHEIM
PIRACH
PLEINTING
SIMBACH
ST.PETER
GABCIKOVO
LEVICE
G÷D
V.KAPUSANY
MUKACEVO
ZAHIDNOUKRAINSKA
PIV.UKRAINSKA
SAJOSZ÷GED
KISVARDA
TISZAL÷K
ALBERTIRSA
WIEN S.O.
NEUSIEDL
GY÷R
OBERSIELACH
KAINACHTAL
PODLOG
MARIBOR
HEVIZ
SANDORFALVA
ARAD
ROSIORI
ISACCEA
SUBOTICA
DJERDAP
PORTILE DE FIER
ISALNITA
STANKA
KOSTESTI
HUSI
CIORA
TUTORA
UNGHENI
KRSKO
TUMBRI
CIRKOVCE
DAKOVO
ERNESTINOVO
MLADOST
TANT.FRENT
VARNA
DOBODJA
MEBURIC
MRACLIN
PRIJEDOR
JAJCE
GRADACAC
TUZLA
UGLJEVIK
VISEGRAD
POZEGA
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SOFIA
KOSLODUI
BABAESKI
HAMITABAT
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DIVACA
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DUBROVNIK
TREBINJE
SARAJEVO
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PRIZREN
PODGORICA
PERUCICA
KOSOVO
SKOPJE
V.DEJES
FIERZA
DUBROVO
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ELBASAN
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ARACHTHOS
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450 kV
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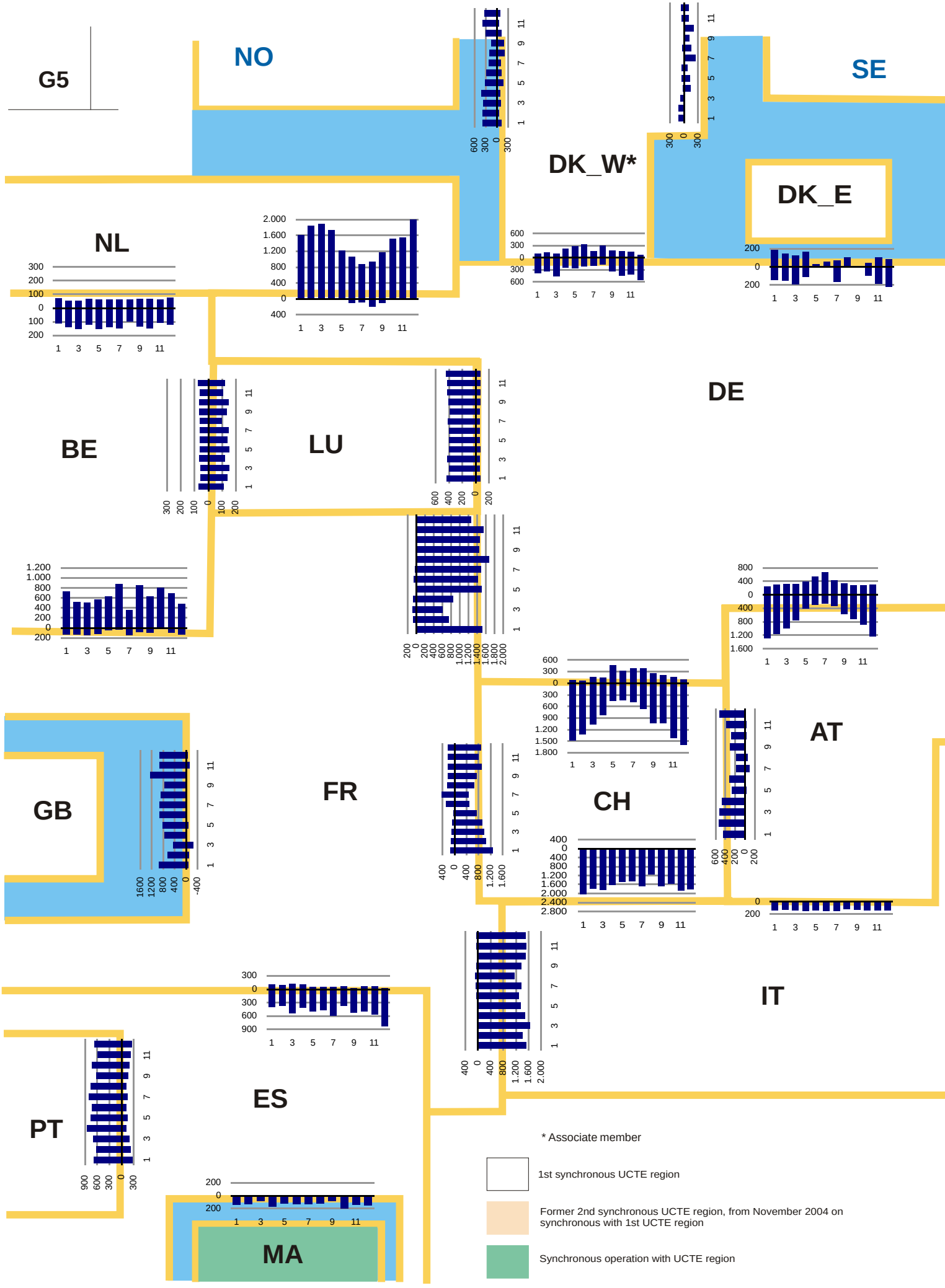
125 kV


G5
NO
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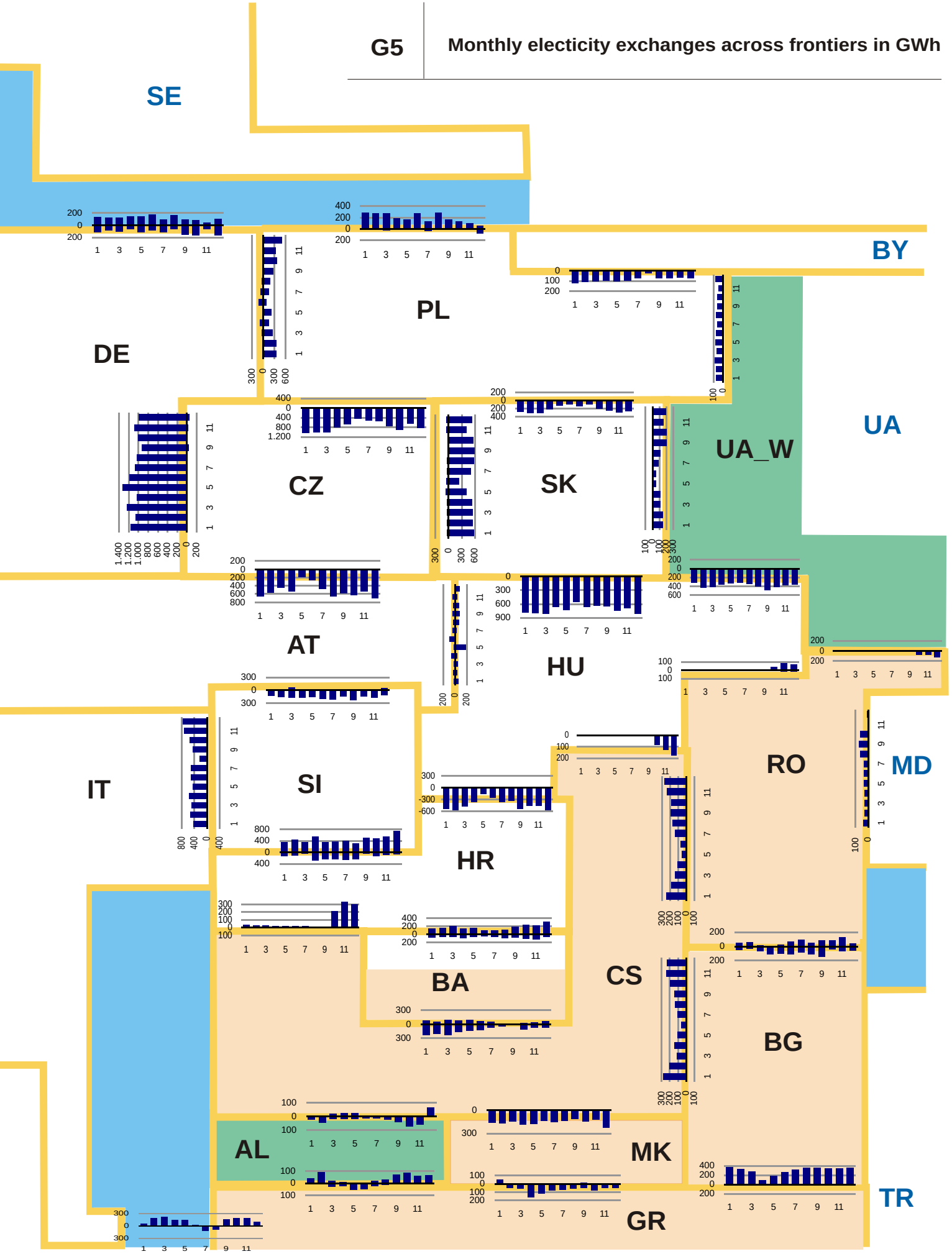
* Associate member
1st synchronous UCTE region
Former 2nd synchronous UCTE region, from November 2004 on synchronous with 1st UCTE region
Synchronous operation with UCTE region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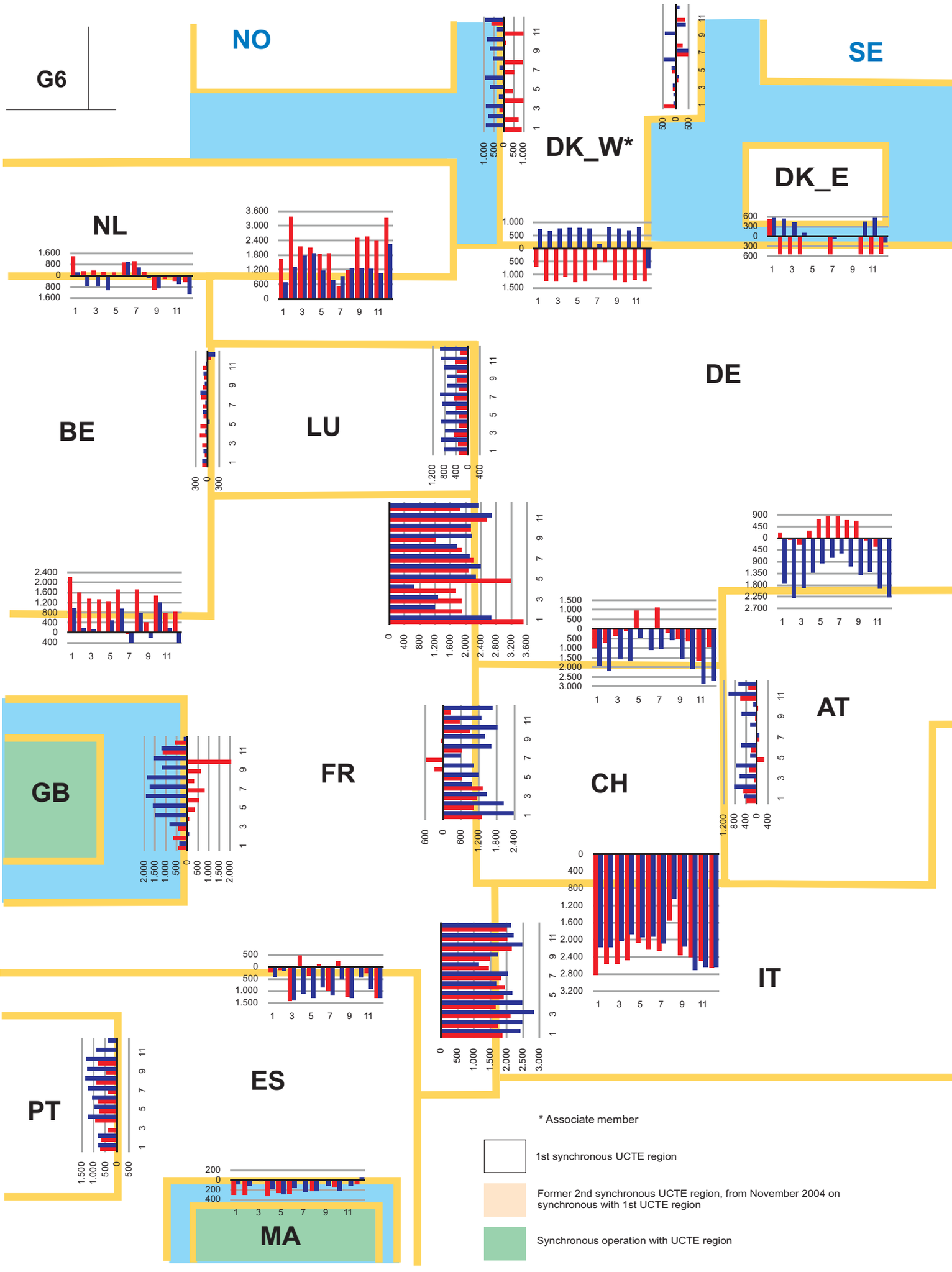
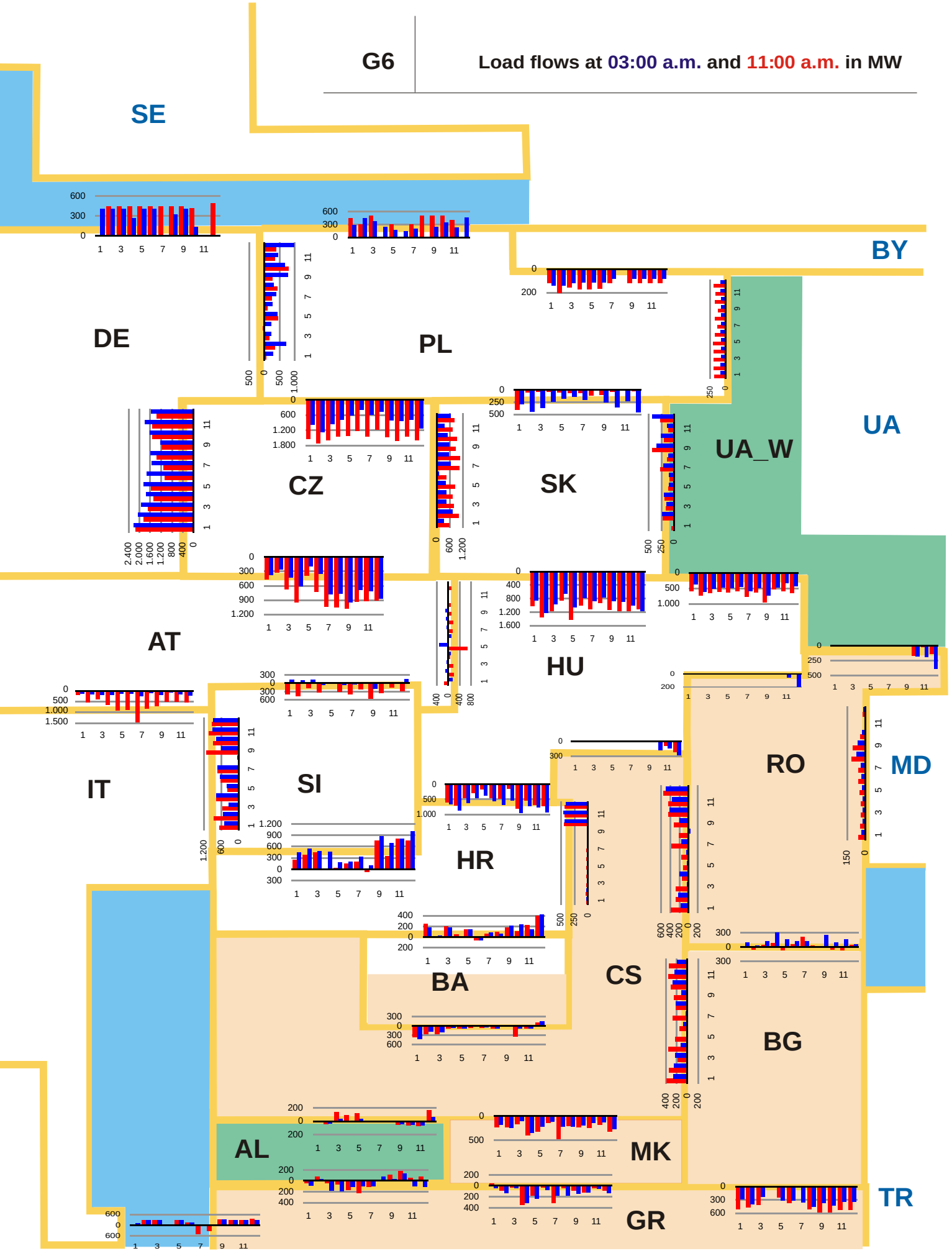

G6
NO
SE
DK_W*
DK_E
NL
BE
LU
DE
GB
FR
CH
AT
IT
ES
PT
MA
* Associate member
1st synchronous UCTE region
Former 2nd synchronous UCTE region, from November 2004 on synchronous with 1st UCTE region
Synchronous operation with UCTE region

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]	Limited by transformer with regulation in Gronau
[4]	Limited by transformer with regulation in Gronau
[5]	Transformer in Borssele
[6]	Transformer in Jamiolle
[7]	Transducer
[8]	Installed in Verbois
[9]	Cross-border power station (220/130)
[10]	Cross-border power station (220/130)
[11]	Cross-border power station (220/130)
[12]	Line property EnBW Netz in Germany partielly on the same tower as line Asphard-Kühmoos or Sierentz-Laufenburg
[13]	DC link with three connections
[14]	Transforming station of Lucciana in Corsica
[15]	DC link with three connections
[16]	Transforming station of Lucciana in Corsica
[17]	Partially on the same tower as the Laufenbourg-Engstlatt line (No. 105.1)
[18]	Transducer
[19]	Transducer
[20]	On the same tower as line No. 81 Laufenbourg-Sierentz 380 kV
[21]	Sag of conductor taken into consideration
[22]	From Kühmoos to Laufenbourg on the same tower
[23]	Disconnector
[24]	Limited by measuring transducer at Laufenbourg
[25]	From Kühmoos to Laufenbourg on the same tower
[26]	On the same tower as line Sierentz-Laufenburg
[27]	Limited by switching devices in Austria

Frontier point	Line	Circuit	Connection between: From substation			Connection between: to substation			Voltage of the circuit		Conventional transmission capacity of the connection (thermal)*		Limited by the transformers or by the substations: of circuits		Limited by the transformers or by the substations: of lines	
			Country	Name	Operated by	Country	Name	Operated by	Forecast	Present	Forecast	Present	at	Voltage	Transmission capacity	Voltage
Nr.	Nr.	Nr.							kV	kV	MVA	MVA	MVA	kV	MVA	kV
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
11	1	1	DE	Diele	E.ON Netz	NL	Meeden	TenneT		380		1382	1000 [1]			
11	1	2	DE	Diele	E.ON Netz	NL	Meeden	TenneT		380		1382	1000 [2]			
13	1	1	DE	Siersdorf	RWE Transportnetz Strom	NL	Maasbracht	TenneT		380		1645				
13	1	2	DE	Rommerskirchen	RWE Transportnetz Strom	NL	Maasbracht	TenneT		380		1698				
15	1	1	DE	Gronau W	RWE Transportnetz Strom	NL	Hengelo	TenneT		380		1790			1300 [3]	
15	1	2	DE	Gronau Z	RWE Transportnetz Strom	NL	Hengelo	TenneT		380		1790			1300 [4]	
25	1	1	BE	Gramme	Elia	NL	Maasbracht	TenneT		380		1207				
25	1	2	BE	Meerhout	Elia	NL	Maasbracht	TenneT		380		1270				
26	1	1	BE	Zandvliet	Elia	NL	Geertruidnberg	TenneT		380		1476				
26	2	1	BE	Zandvliet	Elia	NL	Borssele	TenneT		380		1476	450 [5]			
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	Jamiolle	Elia	FR	Chooz	RTE		220		338	290	150 [6]		
51	2	1	BE	Avelgem	Elia	FR	Avelin	RTE		380		1207				
51	3	1	BE	Achène	Elia	FR	Lonny	RTE		380		1207				
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 [7]		220		
72	1	2	DE	Eichstetten	EnBW Transportnetze	FR	Muhlbach	RTE		380		1751				
81	1	1	CH	Bassecourt	BKW	FR	Sierentz	RTE		380		1186				
81	2	1	CH	Laufenburg	EGL Grid	FR	Sierentz	RTE		380		1167	1264			
81	3	1	CH	Bassecourt	BKW	FR	Mambelin	RTE		380		1046	1316			
82	1	1	CH	Verbois	EOS	FR	Bois-Tollot	RTE		380		1211	800	220 [8]		
82	1	2	CH	Chamoson	EOS	FR	Bois-Tollot	RTE		380		1409	600			
82	2	1	CH	Verbois	EOS	FR	Génissiat	RTE		220		315				11 [9]
82	2	2	CH	Verbois	EOS	FR	Génissiat	RTE		220		315				11 [10]
82	3	1	CH	Verbois	EOS	FR	Chancy-Pougny	SFRM C-P		130		52	42			11 [11]
82	4	1	CH	La Bâtiaz	Atel	FR	Vallorcine	RTE		220		266				
82	5	1	CH	Riddes	EGL Grid	FR	Cornier	RTE		220		275				
82	6	1	CH	St.-Triphon	EOS	FR	Cornier	RTE		220		275				
83	1	1 [12]	CH/DE	Asphard	Atel/NOK /EnBW Transp.netze	FR	Sierentz	RTE		380		1167				
91	1	1	FR	Albertville	RTE	IT	Rondissone	GRTN		380		1150				
91	1	2	FR	Albertville	RTE	IT	Rondissone	GRTN		380		1150				
92	1	1	FR	Le Broc Carros	RTE	IT	Camporosso	GRTN		220		320				
93	1	1	FR	Villarodin	RTE	IT	Venaus	GRTN		380		879				
94	1	1 [13]	FR	Lucciana	EDF	IT	Suvereto	GRTN		220 [14]		300			50	
94	1	2 [15]	FR	Lucciana	EDF	IT	Suvereto	GRTN		220 [16]		300			50	
102	1 [17]	1	CH	Laufenburg	EGL Grid	DE	Gurtweil	EnBW Transportnetze		220		485	457 [18]	220		
102	1	2	CH	Laufenburg	EGL Grid	DE	Gurtweil	EnBW Transportnetze		220		469	457 [19]	220		
102	2	1 [20]	CH	Laufenburg	EGL Grid	DE	Kühmoos	EnBW Transportnetze		220		295[21]		220		
102	3 [22]	1	CH	Laufenburg	EGL Grid	DE	Kühmoos	EnBW Transportnetze	380	220		469	476 [23]	220		
102	3	2	CH	Laufenburg	EGL Grid	DE	Kühmoos	EnBW Transportnetze		380		1620	1264			
102	4	1	CH	Laufenburg	EGL Grid	DE	Kühmoos	EnBW Transportnetze		380		1620	1580			
102	4	2	CH	Laufenburg	EGL Grid	DE	Kühmoos	RWE Transportnetz Strom		380		1580	1264 [24]			
102	5 [25]	1	CH	Laufenburg	EGL Grid	DE	Tiengen	RWE Transportnetz Strom		380		1131				
103	1	1	CH	Beznau	NOK	DE	Tiengen	RWE Transportnetz Strom		380		1158				
103	1	2	CH	Beznau	NOK	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 [26]	CH	Asphard	Atel/NOK	DE	Kühmoos	EnBW Transportnetze		380		1340				
105	1	1	CH	Laufenburg	EGL Grid	DE	Engstlatt	EnBW Transportnetze		380		1675				
106	1	1	CH	Laufenburg	EGL Grid	DE	Breitematt	ED		110		246				
107	1	1	CH	Laufenburg	EGL Grid	DE	Breitematt	ED		110		246				
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	380	220		389				
111	3	1	AT	Bürs	VIW	DE	Dellmensingen	RWE Transportnetz Strom	380	220		492	457 [27]			
111	4	1	AT	Rieden	VKW -ÜN	DE	Lindau	VKW -ÜN		110		84				
111	4	2	AT	Hörbranz	VKW -ÜN	DE	Lindau	VKW -ÜN		110		84				
111	5	1	AT	Vorderwald	VKW -ÜN	DE	Weiler	VKW -ÜN		110		141				

*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 aerial 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	
[28]	Cable at Braunau
[29]	Cable at Braunau
[30]	Normally no electricity exchange across this line/ electricity loop at pylon 32 open, circuit grounded
[31]	Transducer at Ering
[32]	Transducer at Ering
[33]	Isolator in St. Peter
[34]	Isolator in St. Peter
[35]	Normally no electricity exchange across this line
[36]	Line section national border-tower 62 owned by E.ON Netz
[37]	Normally no electricity exchange across this line
[38]	Line section national border-tower 62 owned by E.ON Netz
[39]	No international interconnector
[40]	CFT blocker at St. Peter
[41]	No international interconnector
[42]	CFT blocker at St. Peter
[43]	Switching device at Oberbrunn
[44]	Switching device at Oberbrunn
[45]	Possible to lay a second circuit
[46]	Possible to lay a second circuit
[47]	New substation with 400kV near Spanish frontier : replace Cantegrit
[48]	New substation with 225 kV near Spanish frontier : replace Mouguerre
[49]	Limited by transformer in Ensted / DK West
[50]	Limited by transformer in Kassø / DK West
[51]	Transducer at Kassø / DK West
[52]	Transducer at Kassø / DK West
[53]	Monopol
[54]	DC submarine and underground cable
[55]	DC submarine and underground cable
[56]	DC submarine and underground cable
[57]	Under water cable
[58]	Under water cable
[59]	Under water cable
[60]	Limited by high-frequency coil

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Frontier point	Line	Circuit	Connection between: From substation			Connection between: to substation			Voltage of the circuit		Conventional transmission capacity of the connection (thermal)*		Limited by the transformers or by the substations: of circuits		Limited by the transformers or by the substations: of lines	
			Country	Name	Operated by	Country	Name	Operated by	Forecast	Present	Forecast	Present	at	Voltage	Transmission capacity	Voltage
Nr.	Nr.	Nr.							kV	kV	MVA	MVA	MVA	kV	MVA	kV
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
115	1	1	AT	Braunau	ÖBK	DE	Neuötting	E.ON Netz		110		102			82 [28]	
115	2	1	AT	Braunau	ÖBK	DE	Stammham	E.ON Netz		110		102			82 [29]	
115	3	1	AT	Ranshofen	Verbund - APG	DE	Neuötting	E.ON Netz		110		90				
115	3	2 [30]	AT	Ranshofen	Verbund - APG	DE	Neuötting	E.ON Netz		110		90				
115	4	1	AT	Antiesenhofen	Verbund - APG	DE	Egglfing	E.ON Netz		110		102				
115	5	1	AT	St. Peter	Verbund - APG	DE	Altheim	E.ON Netz		220		301				
115	6	1	AT	St. Peter	Verbund - APG	DE	Simbach	E.ON Netz		220		301				
115	7	1	AT	St. Peter	Verbund - APG	DE	Ering	E.ON Netz		110		152	137		114 [31]	
115	7	2	AT	St. Peter	Verbund - APG	DE	Ering	E.ON Netz		110		152	137		114 [32]	
115	8	1	AT	St. Peter	Verbund - APG	DE	Egglfing	E.ON Netz		110		105				
115	9	1	AT	St. Peter	Verbund - APG	DE	Pirach	E.ON Netz		220		518	457 [33]			
115	10	1	AT	St. Peter	Verbund - APG	DE	Pleinting	E.ON Netz		220		518	457 [34]			
115	11	1	AT	Ranna	EAGOÖ	DE	Passau [35,36]	E.ON Netz		110		90				
115	11	2	AT	Ranna	EAGOÖ	DE	Passau [37,38]	E.ON Netz		110		90				
115	12	1	AT	Oberaudorf	ÖBK	DE	Rosenheim	E.ON Netz		110		93				
115	13	1	AT	Oberaudorf	ÖBK	DE	Kiefersfelden	E.ON Netz		110		102				
115	14	1	AT	Antiesenhofen	EAGOÖ	DE	Weidach	Thüga		110		130				
115	14	2	AT	Antiesenhofen	EAGOÖ	DE	Weidach	Thüga		110		130				
115	15	1	AT	Aigerding	Verbund - APG/EAGOÖ	DE	Passau	ÖBK		110		102				
115	16 [39]	1	AT	St. Peter	Verbund - APG	DE	Schärding	ÖBK		220		301			229 [40]	
115	16 [41]	2	AT	St. Peter	Verbund - APG	DE	Schärding	ÖBK		220		301			229 [42]	
115	17	1	AT	Kufstein	TIRAG	DE	Oberaudorf	ÖBK		110		90				
115	17	2	AT	Ebbs	TIRAG	DE	Oberaudorf	ÖBK		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	380	220		762				
117	1	1	AT	Silz	TIRAG	DE	Oberbrunn	E.ON Netz		220		793	762 [43]			
117	1	2	AT	Silz	TIRAG	DE	Oberbrunn	E.ON Netz		220		793	762 [44]			
117	3	1	AT	Reutte	TIRAG	DE	Füssen	EW Reutte		110		127				
117	3	2	AT	Reutte	TIRAG	DE	Füssen	EW Reutte		110		127				
121	1	1	CH	Airolo	Atel	IT	Ponte	GRTN		220		257	457			
121	2	1	CH	Gorduno	Atel	IT	Mese	GRTN		220		257		250		
121	3	1	CH	Soazza	EGL Grid	IT	Bulciago	GRTN		380		1142				
121	4	1	CH	Lavorgo	Atel	IT	Musignano	GRTN		380		1118				
122	1	1 [45]	CH	Campocologno	RE	IT	Poschiavino	GRTN		150		103	42			
123	1	1	CH	Riddes	EGL Grid	IT	Avise	GRTN		220		290				
123	2	1	CH	Riddes	EGL Grid	IT	Valpelline	GRTN		220		290				
123	3	1	CH	Mörel	RHOWAG	IT	Pallanzeno	GRTN		220		257				
132	1	1	AT	Lienz	Verbund - APG	IT	Soverzene	GRTN		220		257				
141	1	1 [46]	AT	Meiningen	VKW-ÜN	CH	Y-Rehag	NOK		220		501				
141	2	1	AT	Meiningen	VKW-ÜN	CH	Winkeln	NOK		220		776				
142	1	1	AT	Westtirol	Verbund - APG	CH	Pradella	EGL Grid		380		1340				
142	2	1	AT	Westtirol	Verbund - APG	CH	Pradella	EGL Grid		380		1340				
151	1	1	ES	Hernani	REE	FR	Argia [47]	RTE		380		1136				
151	2	1	ES	Irún	REE	FR	Errondenia	RTE		132		56				
151	3	1	ES	Arkale	REE	FR	Argia [48]	RTE		220		340				
151	4	1	ES	Biescas	REE	FR	Pragnères	RTE		220		257				
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	E.ON Netz	DK_W	Ensted	ELTRA		220		332	305 [49]			
161	2	1	DE	Flensburg	E.ON Netz	DK_W	Kassø	ELTRA		220		332	305 [50]			
161	3	1	DE	Audorf	E.ON Netz	DK_W	Kassø	ELTRA		380		1078	658 [51]			
161	3	2	DE	Audorf	E.ON Netz	DK_W	Kassø	ELTRA		380		1078	658 [52]			
161	4	1	DE	Flensburg UW Nord	E.ON Netz	DK_W	Ensted	ELTRA		150		150				
162	1 [53]	1	DE	Bentwisch	VE Transmission	DK_E	Bjæverskov	ELKRAFT		400		600 [54]				
163	1	1	NO	Kristiansand	Statnett	DK_W	Tjele	ELTRA				250 [55]				
163	1	2	NO	Kristiansand	Statnett	DK_W	Tjele	ELTRA				250 [56]				
164	1	1	NO	Kristiansand	Statnett	DK_W	Tjele	ELTRA				350 [57]		500		
165	1	1	SE	Stenkullen	Svenska Kraftnät	DK_W	Vester Hassing	ELTRA				125 [58]		250		
166	1	1	SE	Lindome	Svenska Kraftnät	DK_W	Vester Hassing	ELTRA				360 [59]		285		
171	1	1	AT	Bisamberg	Verbund - APG	CZ	Sokolnice	CEPS		220		269				
171	2	1	AT	Bisamberg	Verbund - APG	CZ	Sokolnice	CEPS		220		269				
172	1	1	AT	Dürnrohr	Verbund - APG	CZ	Slavetice	CEPS		380		1711	1386 [60]			
181	1	1	AT	Obersielach	Verbund - APG	SI	Podlog	ELES		220		351				
182	1	1	AT	Kainachtal	Verbund - APG	SI	Maribor	ELES		380		1514	450			
182	2	1	AT	Kainachtal	Verbund - APG	SI	Maribor	ELES		380		1514	450			

*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 aerial 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	
[61]	Generator line in radial operation - interconnected operation impossible
[62]	Installed at Vianden
[63]	Generator line in radial operation - interconnected operation impossible
[64]	Installed at Vianden
[65]	Generator line in radial operation - interconnected operation impossible
[66]	Installed at Vianden
[67]	Generator line in radial operation - interconnected operation impossible
[68]	Installed at Vianden
[69]	Limited by pumped storage power station at Bauler
[70]	520 MW in total because of the use of pumps in the power station of Vianden
[71]	520 MW in total because of the use of pumps in the power station of Vianden
[72]	The 400kV DC link between GR-IT is composed of an overhead line and a submarine cable
[73]	In Hungary 2 systems in parallel operation
[74]	DC submarine cable
[75]	DC submarine cable
[76]	Unit is MW instead of MVA
[77]	Unit is MW instead of MVA
[78]	Limited by the connected network
[79]	Nominal voltage in Croatia
[80]	Limited by the connected network
[81]	Nominal voltage in Croatia
[82]	Built for 750 kV
[83]	4500 MVA at 750 kV
[84]	The limitation is 750MW
[85]	Limited by the Albanian network
[86]	Capacity of current transformers at Bistrica
[87]	Limitating installations in CZ
[88]	Limitating installations in Etzenricht
[89]	Limited by disconnector / CEPS
[90]	Limited by disconnector / CEPS
[91]	Disconnected in Yugoslavia
[92]	Limitation by measuring transducer

Frontier point	Line	Circuit	Connection between: From substation			Connection between: to substation			Voltage of the circuit		Conventional transmission capacity of the connection (thermal)*		Limited by the transformers or by the substations: of circuits		Limited by the transformers or by the substations: of lines	
			Country	Name	Operated by	Country	Name	Operated by	Forecast	Present	Forecast	Present	at	Voltage	Transmission capacity	Voltage
Nr.	Nr.	Nr.							kV	kV	MVA	MVA	MVA	kV	MVA	kV
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
191	1	1	DE	Niederstedem	RWE Transportnetz Strom	LU	Vianden	SEO		220		730	460 [61,62]			
191	2	1	DE	Niederstedem	RWE Transportnetz Strom	LU	Vianden	SEO		220		365	172 [63,64]			
191	2	2	DE	Niederstedem	RWE Transportnetz Strom	LU	Vianden	SEO		220		365	172 [65,66]			
191	3	1	DE	Bauler	RWE Transportnetz Strom	LU	Viaden	SEO		220		730	460 [67,68]			
191	4	1	DE	Bauler	RWE Transportnetz Strom	LU	Flebour	CEGEDEL Net SA		220		490 [69]			260 [70]	
191	4	2	DE	Bauler	RWE Transportnetz Strom	LU	Roost	CEGEDEL Net SA		220		490			260 [71]	
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				
201	1	1	IT	Redipuglia	GRTN	SI	Divača	ELES		380		1712				
201	2	1	IT	Padriciano	GRTN	SI	Divača	ELES		220		305				
205	1 [72]	1	IT	Galatina	GRTN	GR	Arachthos	HTSO		380		500				
211	1	1	AT	Wien Süd-Ost	Verbund - APG	HU	Györ	MAVIR		220		305				
211	1	2	AT	Neusiedel	Verbund - APG	HU	Györ	MAVIR		220		305				
212	1	1 [73]	AT	Wien Süd-Ost	Verbund - APG	HU	Györ	MAVIR		380		1514				
221	1	1	FR	Mandarins	RTE	GB	Sellindge	National Grid		270 [74]		1000 [76]				
221	2	1	FR	Mandarins	RTE	GB	Sellindge	National Grid		270 [75]		1000 [77]				
231	1	1	ES	Las Conchas	REE	PT	Lindoso	REN		132		90				
232	1	1	ES	Aldeadávila	REE	PT	Bemposta	REN		220		321				
232	2	1	ES	Aldeadávila	REE	PT	Pocinho	REN		220		321				
232	3	1	ES	Saucelle	REE	PT	Pocinho	REN		220		321				
233	1	1	ES	Cedillo	REE	PT	Falagueira	REN		380		948				
234	1	1	ES	Cartelle	REE	PT	Alto Lindoso	REN		380		1036				
234	1	2	ES	Cartelle	REE	PT	Alto Lindoso	REN		380		1036				
235	1	1	ES	Balboa	REE	PT	Alqueva	REN		400		1258				
241	1	1	MK	Dubrovo	ESM	GR	Thessaloniki	HTSO		400		1300	700			
242	1	1	MK	Bitola	ESM	GR	Amynteo	HTSO		150		120	100			
251	1	1	HU	Lenti	MAVIR	HR	Nedeljanec	HEP		120		82	50 [78]	110 [79]		
251	2	1	HU	Siklos	MAVIR	HR	Donji Miholjac	HEP		120		114	50 [80]	110 [81]		
251	3	1	HU	Héviz	MAVIR	HR	Zerjavinec	HEP		400		1246				
251	3	2	HU	Héviz	MAVIR	HR	Zerjavinec	HEP		400		1246				
261	1	1	CS	Djerdap	EPS	RO	Portile de Fier	TRANSELECTRICA		380		1264				
261	2	1	CS	Sip	EPS	RO	Gura Văii	TRANSELECTRICA		110		90				
262	1	1	CS	Kikinda 1	EPS	RO	Jimbolia	TRANSELECTRICA		110		90				
263	1	1	CS	Kusijak	EPS	RO	Ostrovu Mare	TRANSELECTRICA		110		257				
271	1	1	BG	Sofija Zapad	NEK	CS	Niš	EPS		380		1264				
272	1	1	BG	Breznik	NEK	CS	HE Vrla 1	EPS		110		90				
273	1	1	BG	Kula	NEK	CS	Zaječar	EPS		110		90				
275	1	1	RO	Isaccea	TRANSELECTRICA	BG	Varna	NEK	750	400 [82]	4500	2390 [83]			750 [84]	
275	2	1	RO	Isaccea	TRANSELECTRICA	BG	Dobrodja	NEK		400		1700				
276	1	1	RO	Işalniţa	TRANSELECTRICA	BG	Kozlodui	NEK		220		360				
277	1	1	RO	Ţânţăreni	TRANSELECTRICA	BG	Kozlodui	NEK		400		1309		1000		
277	1	2	RO	Ţânţăreni	TRANSELECTRICA	BG	Kozlodui	NEK		400		1309				
281	1	1	AL	Vau i Dejës	KESH	CS	Podgorica	EP CG		220		311				
282	1	1	AL	Fierza	KESH	CS	Prizren	EPS		220		311				
291	1	1	AL	Elbassan	KESH	GR	Kardia	HTSO		400		1300	250 [85]			
292	1	1	AL	Bistrica	KESH	GR	Mourtos	HTSO		150		120	40 [86]			
301	1	1	BG	Blagoevgrad	NEK	GR	Thessaloniki	HTSO		400		1300	700			
321	1	1	CZ	Hradec Zapad	CEPS	DE	Etzenricht	E.ON Netz		380		1386	1316 [87]			
321	1	2	CZ	Prestice	CEPS	DE	Etzenricht	E.ON Netz		380		1579 [88]				
322	1	1	CZ	Hradec Vychod	CEPS	DE	Röhrsdorf	VE Transmission		380		1476	1320 [89]			
322	1	2	CZ	Hradec Vychod	CEPS	DE	Röhrsdorf	VE Transmission		380		1476	1320 [90]			
331	1	1	HU	Sándorfalva	MAVIR	CS	Subotica 3	EPS		380		1264	1050			
332	1	1	HU	Szeged	MAVIR	CS	Subotica	EPS		120		86 [91]				
341	1	1	BG	Skakavica	NEK	MK	Kriva Palanka	ESM		110		123				
341	2	1	BG	Petric	NEK	MK	Sušica	ESM		110		123				
351	1	1	HR	Melina	HEP	SI	Divača	ELES		380		1264				
351	2	1	HR	Pehlin	HEP	SI	Divača	ELES		220		366				
351	3	1	HR	Buje	HEP	SI	Koper	ELES		110		89				
351	4	1	HR	Matulji	HEP	SI	Ilirska Bistrica	ELES		110		53				
352	1	1	HR	Tumbri	HEP	SI	Krško	ELES		380		1316				
352	1	2	HR	Tumbri	HEP	SI	Krško	ELES		380		1316				
352	2	1	HR	Žerjavinec	HEP	SI	Cirkovce	ELES		220		297				
352	3	1	HR	Nedeljanec	HEP	SI	Formin	ELES		110		115				
361	1	1	BA	Mostar	JPCC	HR	Konjsko	HEP		400		1316				
361	2	1	BA	Mostar	JPCC	HR	Zakučac	HEP		220		311				
361	3	1	BA	Grahovo	JPCC	HR	Knin	HEP		110		90				
361	4	1	BA	Buško Blato	JPCC	HR	Kraljevac	HEP		110		115				
361	5	1	BA	Buško Blato	JPCC	HR	Peruca	HEP		110		90				
361	6	1	BA	Grude	JPCC	HR	Imotski	HEP		110		72				
361	7	1	BA	Kulen Vakuf	JPCC	HR	Gracac	HEP		110		120	101 [92]			

*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 aerial 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	
[93]	Destroyed line
[94]	Out of operation
[95]	Destroyed line and substation
[96]	Destroyed line
[97]	Destroyed line
[98]	Line is destroyed, currently under construction
[99]	Line is destroyed, currently under construction
[100]	Monopol
[101]	Limited by the measuring transformer of current
[102]	Limited by the connections among equipments
[103]	Limited by the measuring transformer of current
[104]	Limited by the measuring transformer of current
[105]	Submarine cable
[106]	Limited by current transformer at Krosno and Lemešany
[107]	Limited by current transformer at Krosno and Lemešany
[108]	Out of operation / substation local automatic equipment
[109]	Limited by HF attenuator
[110]	Radial operation
[111]	Limited by HF attenuator
[112]	Isolated operation
[113]	Submarine cable
[114]	Limited by a metering current transformer
[115]	Limited by the measuring transformer of current
[116]	Limited by HF attenuator
[117]	Limited by the measuring transformer of current
[118]	Limited by HF attenuator
[119]	Limited by HF attenuator
[120]	Out of operation/ substation local automatic equipment
[121]	Limited by the measuring transformer of current
[122]	Out of operation / substation local automatic equipment
[123]	Limited by HF attenuator
[124]	Not in operation
[125]	Limitation 900 MW

Frontier point	Line	Circuit	Connection between: From substation			Connection between: to substation			Voltage of the circuit		Conventional transmission capacity of the connection (thermal)*		Limited by the transformers or by the substations: of circuits		Limited by the transformers or by the substations: of lines	
			Country	Name	Operated by	Country	Name	Operated by	Forecast	Present	Forecast	Present	at	Voltage	Transmission capacity	Voltage
Nr.	Nr.	Nr.							kV	kV	MVA	MVA	MVA	kV	MVA	kV
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
362	1	1	BA	Jajce	JPCC	HR	Mraclin	HEP		220		297 [93]				
362	2	1	BA	Prijedor	JPCC	HR	Međurić	HEP		220		297				
363	1	1	BA	Trebinje	JPCC	HR	Dubrovnik	HEP		220		460 [94]				
363	2	1	BA	Trebinje	JPCC	HR	Dubrovnik	HEP		220		460				
363	3	1	BA	Čapljina	JPCC	HR	Opuzen	HEP		110		84				
363	4	1	BA	Neum	JPCC	HR	Opuzen	HEP		110		84				
363	5	1	BA	Neum	JPCC	HR	Ston	HEP		110		76				
363	6	1	BA	Trebinje	JPCC	HR	Komolac	HEP		110		84				
364	1	1	BA	Ugljevik	JPCC	HR	Ernestinovo	HEP		400		831 [95]				
364	2	1	BA	Gradačac	JPCC	HR	Đakovo	HEP		220		229 [96]				
364	3	1	BA	Tuzla	JPCC	HR	Đakovo	HEP		220		229				
364	4	1	BA	Bosanski Brod	JPCC	HR	Slavonski Brod 2	HEP		110		115 [97]				
364	5	1	BA	Orasje	JPCC	HR	Županja	HEP		110		76				
371	1	1	HR	Ernestinovo	HEP	CS	S.Mitrovica	EPS		380		1264				
371	2	1	HR	Nijemci	HEP	CS	Šid	EPS		110		76				
371	3	1	HR	Beli Manastir	HEP	CS	Apatin	EPS		110		78				
381	1	1	BA	Trebinje	JPCC	CS	Podgorica	EP CG		380		1264				
381	2	1	BA	Trebinje	JPCC	CS	Peručica	EP CG		220		311				
381	3	1	BA	Trebinje	JPCC	CS	Herceg Novi	EP CG		110		90				
381	4	1	BA	Bileča	JPCC	CS	Vilusi	EP CG		110		84				
382	1	1	BA	Sarajevo 20	JPCC	CS	Piva	EP CG		220		366				
382	2	1	BA	Goražde	JPCC	CS	Pljevlja	EP CG		110		90				
383	1	1	BA	Višegrad	JPCC	CS	Požega	EPS		220		311				
383	2	1	BA	Bijeljina	JPCC	CS	Lešnica	EPS		110		123				
383	3	1	BA	Zvornik	JPCC	CS	HE Zvornik	EPS		110		123				
383	4	1	BA	Višegrad	JPCC	CS	Potpeć	EPS		110		123				
391	1	1	MK	Skopje 1	ESM	CS	Kosovo A	EPS		220		311 [98]				
391	2	1	MK	Skopje 1	ESM	CS	Kosovo A	EPS		220		311 [99]				
391	3	1	MK	Skopje 5	ESM	CS	Kosovo B	EPS		380		1264				
401	1 [100]	1	DE	Herrenwyk	E.ON Netz	SE	Kruseberg	Sydkraft/Vattenfall		450		600				
404	1	1	CZ	Nosovice	CEPS	SK	Varin	SEPS		400		1465	1386 [101]			
410	1	1	CZ	Liskovec	CEPS	SK	Pov. Bystrica	SEPS		220		269				
420	1	1	CZ	Sokolnice	CEPS	SK	Senica	SEPS		220		318				
424	1	1	CZ	Sokolnice	CEPS	SK	Krizovany	SEPS		400		1503	1323 [102]			
430	1	1	CZ	Sokolnice	CEPS	SK	Stupava	SEPS		400		1559	831 [103]			
440	1	1	SK	V.Kapusany	SEPS	UA_W	Mukachevo	NPC Ukrenergo		400		1186	693 [104]			
443	1	1	CZ	Albrechtice	CEPS	PL	Dobrzen	PSE-Operator SA		400		1088				
444	1	1	CZ	Nošovice	CEPS	PL	Wielopole	PSE-Operator SA		400		1088				
450	1	1	CZ	Liskovec	CEPS	PL	Kopanina	PSE-Operator SA		220		400				
460	1	1	CZ	Liskovec	CEPS	PL	Bujakov	PSE-Operator SA		220		400				
501	1	1	DE	Vierraden	VE Transmission	PL	Krajnik	PSE-Operator SA		220		173				
501	1	2	DE	Vierraden	VE Transmission	PL	Krajnik	PSE-Operator SA		220		173				
502	1	1	DE	Hagenwerder	VE Transmission	PL	Mikulowa	PSE-Operator SA		380		1302				
502	1	2	DE	Hagenwerder	VE Transmission	PL	Mikulowa	PSE-Operator SA		380		1302				
601	1 [109]	1	ES	Pinar del Rey	REE	MA	Melloussa	ONE		380		730				
700	1	1	PL	Krosno Iskrzynia	PSE-Operator SA	SK	Lemešany	SEPS		400		1252	831 [106]			
700	1	2	PL	Krosno Iskrzynia	PSE-Operator SA	SK	Lemešany	SEPS		400		1252	831 [107]			
701	1	1	PL	Rzeszów	PSE-Operator SA	UA_W	Chmielnicka	NPC Ukrenergo		750		2676 [108]	1949 [109]			
702	1	1	PL	Zamość	PSE-Operator SA	UA_W	Dobrotwor	NPC Ukrenergo		220		309 [110]	381 [111]			
703	1	1	PL	Bialystok	PSE-Operator SA	BY	Roś	Grodnoenergo		220		215 [112]				
704	1	1	PL	Slupsk	PSE-Operator SA	SE	Stämo	SvK		450		600 [113]				
710	1	1	HU	Györ	MAVIR	SK	Gabcikovo	SEPS		400		1246	1386 [114]			
711	1	1	HU	Göd	MAVIR	SK	Levice	SEPS		400		1246	1108 [115]			
720	1	1	HU	Albertirsa	MAVIR	UA_W	Zahidno Ukrainska	NPC Ukrenergo		750		4000	2146 [116]			
721	1	1	HU	Sajószöged	MAVIR	UA_W	Mukacevo	NPC Ukrenergo		400		1635	693 [117]			
722	1	1	HU	Kisvárda	MAVIR	UA_W	Mukacevo	NPC Ukrenergo		220		312	305 [118]			
722	1	2	HU	Tiszalök	MAVIR	UA_W	Mukacevo	NPC Ukrenergo		220		312	305 [119]			
730	1	1	HU	Sándorfalva	MAVIR	RO	Arad	TRANSELECTRICA		400		1246				
740	1	1	RO	Roşiori	TRANSELECTRICA	UA_W	Mukacevo	NPC Ukrenergo		400		1400 [120]	693 [121]			
741	1	1	RO	Isaccea	TRANSELECTRICA	UA_W	PivdennoUkrainska AES	NPC Ukrenergo		750		4000 [122]	2100 [123]			
750	1	1	RO	Stânca	TRANSELECTRICA	MD	Costeşti	Moldenergo		110		90				
751	1	1	RO	Huşi	TRANSELECTRICA	MD	Cioara	Moldenergo		110		90				
752	1	1	RO	Ţuţora	TRANSELECTRICA	MD	Ungheni	Moldenergo		110		90				
753	1	1	RO	Issaccea	TRANSELECTRICA	MD	Vulcanesti	Moldenergo		400		1700				
760	1	1	BG	Maritsa3	NEK	TR	Babaeski	TEIAS		400		1309 [124]	900			
761	1	1	BG	Maritsa3	NEK	TR	Hamitabat	TEIAS		400	1715	900 [125]				

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Abbreviations used of grid operators

Austria	TIRAG	Tiroler Regelzone AG
	Verbund APG	Verbund - Austria Power Grid GmbH, Wien
	VKW ÜN	VKW - Übertragungsnetz AG, Bregenz
Bosnia - Herzegovina	JPCC	Joint Power Coordination Center
Belgium	Elia	Elia System Operator SA
Bulgaria	NEK	Natsionalna Elektricheska Kompania EAD, Sofia
Switzerland	ATEL	Aare-Tessin Ltd.for Elektricity
	BKW UTN	BKW Übertragungsnetz AG, Bern
	EGL Grid	EGL Grid AG, Laufenburg
	EOS	Energy Ouest Suisse S.A., Lausanne
	ETRANS	ETRANS Ltd.
	NOK	Nordostschweizerische Kraftwerke AG, Baden
Serbia & Montenegro	EPCG	Elektroprivreda Crne Gore, Niksic
	EPS	Elektroprivreda Srbije, Beograd
Czech Republic	CEPS	CEPS a.s., Praha
Germany	E.ON Netz	E.ON Netz GmbH, Bayreuth
	EnBW Transportnetze	EnBW Transportnetze AG, Karlsruhe
	RWE Transportnetz Strom	RWE Transportnetz Strom GmbH, Dortmund
	VE Transmission	Vattenfall Europe Transmission GmbH, Berlin
Spain	REE	Red Eléctrica de España S.A., Madrid
France	RTE	RTE Gestionnaire du Réseau de Transport d'Electricité,
Greece	HTSO / DESMIE	Hellenic Transmission System Operator / Diachristis Elinikou Sistimatos Metaforas Illectrikis Energias
Croatia	HEP	Hrvatska Elektroprivreda d.d., Zagreb
Hungary	MAVIR Rt	Magyar Villamosenergia - ipari Rendszerirányitó Rt., Budapest
Italy	GRTN	Gestore della Rete di Trasmissione Nazionale S.p.A., Roma
Luxembourg	CEGEDEL Net	Compagnie Grand Ducale d'Electricité du Luxembourg S.A., Luxembourg
FYROM	ESM	Elektrostopastvo na Makedonija, Skopje
The Netherlands	TenneT	TenneT bV Transmission System Operator
Poland	PSE-Operator	Polskie Sieci Elektroenergetyczne Operator S.A.
Portugal	REN	Rede Eléctrica Nacional, S.A., Lisboa
Romania	TRANSELECTRICA	Transelectrica S.A., National Power Grid Company, Bucaresti
Slovenia	ELES	Elektro Slovenija, Ljubljana
Slovak Republic	SEPS	Slovenska Elektrizacna Prenosova Sustava, a.s.
Denmark West	ELTRA	ELTRA , Fredericia
Denmark East	ELKRAFT	ELKRAFT
Ukraine West	NPC Ukrenergo	NPC Ukrenergo
Albania	KESH	Albanian Electroenergetic Corporation
Belarus	Grodnoenergo	Grodnoenergo
Great Britain	National Grid	The National Grid Company plc, London
Morocco	ONE	Office National de l'Electricité, Casablanca
Republic of Moldavia	Moldenergo	Moldenergo
Norway	Statnett	Statnett
Republic of Turkey	TEIAS	Türkiye Elektrik Iletim A.S., Ankara
Sweden	SYDKRAFT	Sydkraft AB, Malmö
	VATTENFALL	Vattenfall AB, Stockholm
	SvK	Svenska Kraftnät

Unavailability of international tie lines - Overview

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 (E.ON Netz)	NL - Meeden (TenneT)	380	1382	R1	611							611					
11.1.2	DE - Conneforde (E.ON Netz)	NL - Meeden (TenneT)	380	1382	R1	2439							2439					
13.1.1	DE - Siersdorf (RWE Transportnetz Strom)	NL - Maasbracht (TenneT)	380	1645	R1	34415					850	33565						
13.1.2	DE - Rommerskirchen (RWE Transportnetz Strom	NL - Maasbracht (TenneT)	380	1698	R1	1113									1113			
15.1.1	DE - Gronau W (RWE Transportnetz Strom)	NL - Hengelo (TenneT)	380	1790	R1	4033							3427	606				
15.1.2	DE - Gronau Z (RWE Transportnetz Strom)	NL - Hengelo (TenneT)	380	1790	R1	3370							3370					
25.1.1	BE - Gramme (Elia)	NL - Maasbracht (TenneT)	380	1207	R9	19488										19488		
25.1.2	BE - Meerhout (Elia)	NL - Maasbracht (TenneT)	380	1270	R1	12193						12193						
26.2.1	BE - Zandvliet (Elia)	NL - Borssele (TenneT)	380	1476	R1	2509				1311			1198					
41.1.1	BE - Aubange (Elia)	LU - Belval (SOTEL)	220	358	R1	3392					3392							
41.2.1	BE - Aubange (Elia)	LU - Belval (SOTEL)	150	157	R1, R6, R9	9795				6106						15	3674	
41.3.1	BE - Aubange (Elia)	LU - Belval (SOTEL)	150	157	R1	5561				5561								
51.1.1	BE - Jamiolle (Elia)	FR - Chooz (RTE)	220	338	R1, R9	4855				4739		116						
51.2.1	BE - Avelgem (Elia)	FR - Avelin (RTE)	380	1207	R1, R9	7002					410		3				6589	
51.3.1	BE - Achène (Elia)	FR - Lonny (RTE)	380	1207	R1, R9	22864					22857						7	
52.1.1	BE - Aubange (Elia)	FR - Moulaine (RTE)	220	286	R1	4817											4817	
71.1.1	DE - Uchtelfangen (RWE Transportnetz Strom)	FR - Vigy (RTE)	380	1790	R1	3622				3622								
71.1.2	DE - Uchtelfangen (RWE Transportnetz Strom)	FR - Vigy (RTE)	380	1790	R1, R9, 10	4459				3692								767
71.2.1	DE - Ensdorf (RWE Transportnetz Strom)	FR - St-Avold (RTE)	220	261	R1	6654		5859			795							
72.1.1	DE - Eichstetten (EnBW Transportnetze)	FR - Vogelgrün (RTE)	220	338	R9, R10	2763			2429			334						
72.1.2	DE - Eichstetten (EnBW Transportnetze)	FR - Muhlbach (RTE)	380	1751	R9	2517			2061	456								
81.1.1	FR - Sierentz (RTE)	CH - Bassecourt (BKW)	380	1186	R1	11577				4945					6632			
81.2.1	CH - Laufenburg (EGL Grid)	FR - Sierentz (RTE)	380	1167	R1	72447					3442				5019	2452	43200	18334
81.3.1	FR - Mambelin (RTE)	CH - Bassecourt (BKW)	380	1046	R1, R10	4537		6			4531							
82.1.1	FR - Bois-Tollot (RTE)	CH - Verbois (EOS)	380	1211	R1	19631				3035						16223	373	
82.1.2	FR - Bois-Tollot (RTE)	CH - Chamoson (EOS)	380	1409	R1, R9	15544						2966	6679		5292	588		19
82.2.1	FR - Génissiat (RTE)	CH - Verbois (EOS)	220	315	R1	596					596							
82.2.2	CH - Verbois (EOS)	FR - Génissiat (RTE)	220	315	R1	594					594							
82.4.1	FR - Vallorcine (RTE)	CH - La Bâtiaz (Atel)	220	266	R1	3394							3394					
82.5.1	CH - Riddes (EGL Grid)	FR - Cornier (RTE)	220	275	R1,R2,R7,R8	7792		913		130			6178			571		
82.6.1	CH - St.-Triphon (EOS)	FR - Cornier (RTE)	220	275	R1, R7	5010				127						4883		
83.1.1	FR - Sierentz (RTE)	CH - Asphard (Atel/NOK/EnBW TN)	380	1167	R9	6435						6435						
91.1.1	FR - Albertville (RTE)	IT - Rondissone (GRTN)	380	1150	R1, R9	3255						102			3153			
91.1.2	FR - Albertville (RTE)	IT - Rondissone (GRTN)	380	1150	R1	2979									2042	937		
92.1.1	FR - Le Broc Carros (RTE)	IT - Camporosso (GRTN)	220	320	R1, R6, R9	14091		6285		6404								1402
93.1.1	FR - Villarodin (RTE)	IT - Venaus (GRTN)	380	879	R1, R9	13570						130		13440				
94.1.1	FR - Lucciana (EDF)	IT - Suvereto (GRTN)	220	300	R1	29549	2911								5219	21419		
102.1.1	DE - Gurtweil (EnBW Transportnetze)	CH - Laufenburg (EGL Grid)	220	485	R1	7719				540				2502	4677			
102.1.2	DE - Gurtweil (EnBW Transportnetze)	CH - Laufenburg (EGL Grid)	220	469	R1	526				526								
102.2.1	CH - Laufenburg (EGL Grid)	DE - Kühmoos (EnBW Transportnetze)	220	295	R1, R10	865				599							266	
102.3.1	DE - Kühmoos (EnBW Transportnetze)	CH - Laufenburg (EGL Grid)	220	469	R1	1358				531					426	401		
102.3.2	DE - Kühmoos (EnBW Transportnetze)	CH - Laufenburg (EGL Grid)	380	1620	R1	13000			496	6193							6311	
102.4.1	DE - Kühmoos (EnBW Transportnetze)	CH - Laufenburg (EGL Grid)	380	1620	R1, R2	6567							6118				449	
102.4.2	DE - Kühmoos (EnBW Transportnetze)	CH - Laufenburg (EGL Grid)	380	1580	R1	6323			40		6283							
102.5.1	DE - Tiengen (RWE Transportnetz Strom)	CH - Laufenburg (EGL Grid)	380	1131	R1, R2, R9	11727			6669	645			639		3642		132	
103.1.1	DE - Tiengen (RWE Transportnetz Strom)	CH - Beznau (NOK)	380	1158	R1	22556			4998				13521	3446	591			
103.1.2	DE - Tiengen (RWE Transportnetz Strom)	CH - Koblenz (NOK)	220	335	R1, R9	40957	558	133			780	23945	13514	2027				
104.1.1	DE - Kühmoos (EnBW Transportnetze)	CH - Asphard (Atel/NOK)	380	1340	R1, R2, R9	19772						6777			12516	479		
105.1.1	DE - Engstlatt (EnBW Transportnetze)	CH - Laufenburg (EGL Grid)	380	1675	R1	3289							3289					
111.2.1	DE - Herbertingen (RWE Transportnetz Strom)	AT - Bürs (VIW)	220	389	R1, R2, R9	37340	293			3111	6100		106		16435	11295		
111.3.1	DE - Dellmensingen (RWE Transportnetz Strom)	AT - Bürs (VIW)	220	492	R1,R2,R8,R9	13802		53	215	1891		4794			5274	996	579	
115.5.1	DE - Altheim (E.ON Netz)	AT - St. Peter (Verbund-APG)	220	301	R1, R9	19202	76	129						8126	9658	509	704	
115.6.1	DE - Simbach (E.ON Netz)	AT - St. Peter (Verbund-APG)	220	301	R1, R9	1692	77							1615				
115.9.1	DE - Pirach (E.ON Netz)	AT - St. Peter (Verbund-APG)	220	518	R1, R9	8424	2436								116		1236	4636
115.10.1	DE - Pleinting (E.ON Netz)	AT - St. Peter (Verbund-APG)	220	518	R1, R4, R9	3179		203	390		2446	67		73				
116.1.1	DE - Leupolz (RWE Transportnetz Strom)	AT - Westtirol (Verbund-APG)	380	1316	R1, R8	1617		77				544		320		461		215
116.2.1	AT - Westtirol (Verbund-APG)	DE - Memmingen (RWE Transportnetz Strom)	220	762	R1, R9	9516		1947				3316	132	325		348		3448
117.1.1	DE - Oberbrunn (E.ON Netz)	AT - Silz (TIRAG)	220	793	R1, R9	21275				1671			2391		497	6056	5188	5472
117.1.2	DE - Oberbrunn (E.ON Netz)	AT - Silz (TIRAG)	220	793	R1, R2, R9	13404				2680					500	8679	1010	535
121.1.1	IT - Ponte (GRTN)	CH - Airolo (Atel)	220	257	R1, R2	19637					170	3808	15127			292		240
121.2.1	IT - Mese (GRTN)	CH - Gorduno (Atel)	220	257	R1, R9	8556					779	752			764	6261		
121.3.1	IT - Bulciago (GRTN)	CH - Soazza (EGL Grid)	380	1142	R1	15104				11220				2904		591	389	
121.4.1	IT - Musignano (GRTN)	CH - Lavorgo (Atel)	380	1118	R1	1840								1352			488	
122.2.1	IT - Sondrio (GRTN)	CH - Robbia (RE)	220	257	R1	144005		556	44159	41760	44640	12890						
123.1.1	IT - Avise (GRTN)	CH - Riddes (EGL Grid)	220	290	R1, R2	18731					11039	6888				295	509	
123.2.1	IT - Valpelline (GRTN)	CH - Riddes (EGL Grid)	220	290	R1	22864					11039	6939					4886	
123.3.1	IT - Pallanzeno (GRTN)	CH - Mörel (RHOWAG)	220	257	R1,R2,R6	4810		97						384	3327	1002		
132.1.1	IT - Soverzene (GRTN)	AT - Lienz (Verbund-APG)	220	257	R1	7293						543		6300			450	
141.1.1	AT - Meiningen (VKW-ÜN)	CH - Y-Rehag (NOK)	220	501	R1	38032					566	14603	22249					614
141.2.1	AT - Meiningen (VKW-ÜN)	CH - Winkeln (NOK)	220	776	R1, R9	6079					96	2620	3363					

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

T9a Unavailability of international tie lines - Overview

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]
142.1.1	CH - Pradella (EGL Grid)	AT - Westtirol (Verbund-APG)	380	1340	R1	7817								7817				
142.2.1	CH - Pradella (EGL Grid)	AT - Westtirol (Verbund-APG)	380	1340	R1, R2, R9	5511		20						5491				
151.1.1	ES - Hernani (REE)	FR - Argia (RTE)	380	1136	R2, R9	10101						1161			8940			
151.2.1	ES - Irún (REE)	FR - Errondenia (RTE)	132	56	R2	31785						13529	18256					
151.3.1	ES - Arkale (REE)	FR - Argia (RTE)	220	340	R1,R2,R9	40289			463			2017	3133		7675	757	2290	23954
151.4.1	ES - Biescas (REE)	FR - Pragnères (RTE)	220	247	R1,R2,R9	35671	11479	6592			5730	7331			4539			
152.1.1	ES - Benós (REE)	FR - Lac d'Oo (RTE)	110	63	R1	14179			3779						10400			
153.1.1	ES - Vic (REE)	FR - Baixas (RTE)	380	1105	R1, R7	9132				5446				3653				33
161.1.1	DE - Flensburg (E.ON Netz)	DK_W - Ensted (ELTRA)	220	332	R1, R9	21827						1976		9374	7498			2979
161.2.1	DE - Flensburg (E.ON Netz)	DK_W - Kassø (ELTRA)	220	332	R1, R9	24624						1973	2243	16333	2240			1835
161.3.1	DE - Audorf (E.ON Netz)	DK_W - Kassø (ELTRA)	380	1078	R1	859					312	547						
161.3.2	DE - Audorf (E.ON Netz)	DK_W - Kassø (ELTRA)	380	1078	R1, R2, R9	1072			2	598		472						
162.1.1	DE - Bentwisch (VE Transmission)	DK_E - Bjæverskov (ELKRAFT)	400	600	R2	190951					41399	33119	6120	44640	43200	21970		503
163.1.1	DK_W - Tjele (ELTRA))	NO - Kristiansand (Statnett)		250	R1, R6, R9	14939							455	2179	8567	3738		
163.1.2	DK_W - Tjele (ELTRA))	NO - Kristiansand (Statnett)		250	R1	10337									10337			
164.1.1	DK_W - Tjele (ELTRA))	NO - Kristiansand (Statnett)		350	R1, R5	6529									6418			111
165.1.1	DK_W - Vester Hassing (ELTRA)	SE - Stenkullen (Svenska Kraftnät)		125	R1, R6	20978								2564	17010	22	1382	
166.1.1	DK_W - Vester Hassing (ELTRA)	SE - Lindome (Svenska Kraftnät)		360	R1, R2, R9	13990								1167	12433			390
171.1.1	AT - Bisamberg (Verbund-APG)	CZ - Sokolnice (CEPS)	220	269	R1	51203		536				3943	10957		15128	20443	196	
171.2.1	AT - Bisamberg (Verbund-APG)	CZ - Sokolnice (CEPS)	220	269	R1	18352		520				3943	10958				2931	
172.1.1	AT - Dürnrohr (Verbund-APG)	CZ - Slavetice (CEPS)	380	1711	R1	42190		2047			39122	1021						
181.1.1	SI - Podlog (ELES)	AT - Obersielach (Verbund-APG)	220	351	R1, R2	9099	1485		2451			225				4938		
182.1.1	SI - Maribor (ELES)	AT - Kainachtal (Verbund-APG)	380	1514	R1	10982		6197				4785						
182.2.1	SI - Maribor (ELES)	AT - Kainachtal (Verbund-APG)	380	1514	R1	12235		6190			6045							
191.4.1	DE - Bauler (RWE Transportnetz Strom)	LU - Flebour (CEGEDEL Net SA)	220	490	R1, R8	1977		8					1596			373		
191.2.1	DE - Niederstedem (RWE Transportnetz Strom)	LU - Vianden (SEO)	220	365	R9	723			723									
191.4.2	DE - Bauler (RWE Transportnetz Strom)	LU - Roost (CEGEDEL Net SA)	220	490	R1, R8	2654		16	54		2211					373		
192.1.1	DE - Trier (RWE Transportnetz Strom)	LU - Heisdorf (CEGEDEL Net SA)	220	490	R1, R2, R9	1703		122	603		576					402		
192.2.1	DE - Quint (RWE Transportnetz Strom)	LU - Heisdorf (CEGEDEL Net SA)	220	490	R1	299										299		
201.1.1	IT - Redipuglia (GRTN)	SI - Divaca (ELES)	380	1712	R1	10920	240							10680				
201.2.1	IT - Padriciano (GRTN)	SI - Divaca (ELES)	220	305	R9	33	31				2							
205.1.1	IT - Galatina (GRTN)	GR - Arachthos (HTSO)	380	500	R1, R8	22155				3779	18360	16						
211.1.1	HU - Györ (MAVIR)	AT - Wien Süd-Ost (Verbund-APG)	220	305	R1	28905			134				28339			432		
211.1.2	HU - Györ (MAVIR)	AT - Neusiedl (Verbund-APG)	220	305	R1	28353							28353					
212.1.1	HU - Györ (MAVIR)	AT - Wien Süd-Ost (Verbund-APG)	380	1514	R1	839			839									
221.1.1	FR - Mandarins (RTE)	GB - Sellindge (National Grid)	270	1000	R1, R9	5346	22			226	52				4262	784		
221.2.1	FR - Mandarins (RTE)	GB - Sellindge (National Grid)	270	1000	R9	6057				109	5948							
231.1.1	ES - Las Conchas (REE)	PT - Lindoso (REN)	132	90	R1	57649				20737				12314	24217	381		
232.1.1	ES - Aldeadávila (REE)	PT - Bemposta (REN)	220	321	R1	145	145											
232.2.1	ES - Aldeadávila (REE)	PT - Pocinho (REN)	220	321	R1, R7	820	106				705			9				
232.3.1	ES - Saucelle (REE)	PT - Pocinho (REN)	220	321	R1, R8	8531	127					3			6226		1061	1114
233.1.1	ES - Cedillo (REE)	PT - Falagueira (REN)	380	948	R1, R6	6815	203	385						6227				
234.1.1	ES - Cartelle (REE)	PT - Alto Lindoso (REN)	380	1036	R1, R7, R8	2953			742	40				31		251	1889	
234.1.2	ES - Cartelle (REE)	PT - Alto Lindoso (REN)	380	1036	R7, R8	81				39				39	3			
241.1.1	GR - Thessaloniki (HTSO)	MK - Dubrovo (ESM)	400	1300	R1, R4, R10	4121				3796		141	47	115	20	2		
242.1.1	GR - Amyndeo (HTSO)	MK - Bitola (ESM)	150	120	R1, R4, R9	5784	1224			3535		218	48	151	608			
251.1.1	HR - Nedeljanec (HEP)	HU - Lenti (MAVIR)	120	82	R9	306720				43200	44640	43200		44640	43200	44640	43200	
251.2.1	HR - Donji Miholjac (HEP)	HU - Siklos (MAVIR)	120	114	R9	289869				42572	40683	31342		44640	42968	44464	43200	
251.3.1	HR - Zerjavinec (HEP)	HU - Héviz (MAVIR)	400	1246	R9	57319					3959	15170		22599	8378	7213		
251.3.2	HR - Zerjavinec (HEP)	HU - Héviz (MAVIR)	400	1246	R9	13458						11944	220		647	647		
261.1.1	CS - Djerdap (EPS)	RO - Portile de Fier (TRANSELECTRICA)	380	1264	R1, R2	1669			1552									117
261.2.1	CS - Sip (EPS)	RO - Guravai (TRANSELECTRICA)	110	90	R1, R9	46260	44640									1620		
262.1.1	CS - Kikinda 1 (EPS)	RO - Jimbolia (TRANSELECTRICA)	110	90	R1, R9	47640	44640		3000									
263.1.1	CS - Kusijak (EPS)	RO - Ostrvo Mare (TRANSELECTRICA)	110	257	R9	44640	44640											
271.1.1	CS - Niš (EPS)	BG - Sofija Zapad (NEK)	380	1264	R1	1648									1648			
272.1.1	CS - HE Vrla 1 (EPS)	BG - Breznik (NEK)	110	90	R9	44640	44640											
273.1.1	CS - Zajecar (EPS)	BG - Kula (NEK)	110	90	R9	44640	44640											
275.1.1	BG - Varna (NEK)	RO - Isaccea (TRANSELECTRICA)	400	2390	R1	81056		12600		30240				3900	12118	22198		
276.1.1	BG - Kozlodui (NEK)	RO - Isalnita (TRANSELECTRICA)	220	360	R1	5460		4860			600							
277.1.1	RO - Tântareni (TRANSELECTRICA)	BG - Kozlodui (NEK)	400	1309	R1	5400					1980					1980	120	1320
277.1.2	RO - Tântareni (TRANSELECTRICA)	BG - Kozlodui (NEK)	400	1309	R1	8940		1500		3000						3000	1440	
281.1.1	CS - Podgorica (EP CG)	AL - Vau i Dejës (KESH)	220	311	R1, R5	15579	8337	1174				488	4509	584	437	26	24	
282.1.1	CS - Prizren (EPS)	AL - Fierza (KESH)	220	311	R1, R5, R9	2592	318		319	1195	435		50			152		123
291.1.1	GR - Kardia (HTSO)	AL - Elbassan (KESH)	400	1300	R1, R9	8702	1938				563					6201		
301.1.1	GR - Thessaloniki (HTSO)	BG - Blagoevgrad (NEK)	400	1300	R1, R8	22423				21588	802	33						
321.1.1	DE - Etzenricht (E.ON Netz)	CZ - Hradec Zapad (CEPS)	380	1386	R1, R6	5060						3164		1765	131			
321.1.2	DE - Etzenricht (E.ON Netz)	CZ - Prestice (CEPS)	380	1579	R9	2181									2181			
322.1.1	DE - Röhrsdorf (VE Transmission)	CZ - Hradec Vychod (CEPS)	380	1476	R1, R4, R9	16441	2102		974		2120	385	3340	804	2155		4561	
322.1.2	DE - Röhrsdorf (VE Transmission)	CZ - Hradec Vychod (CEPS)	380	1476	R1, R4	4896	612		511		615		524		2148		486	
331.1.1	CS - Subotica 3 (EPS)	HU - Sándorfalva (MAVIR)	380	1246	R9	13541										13541		

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

T9a Unavailability of international tie lines - Overview

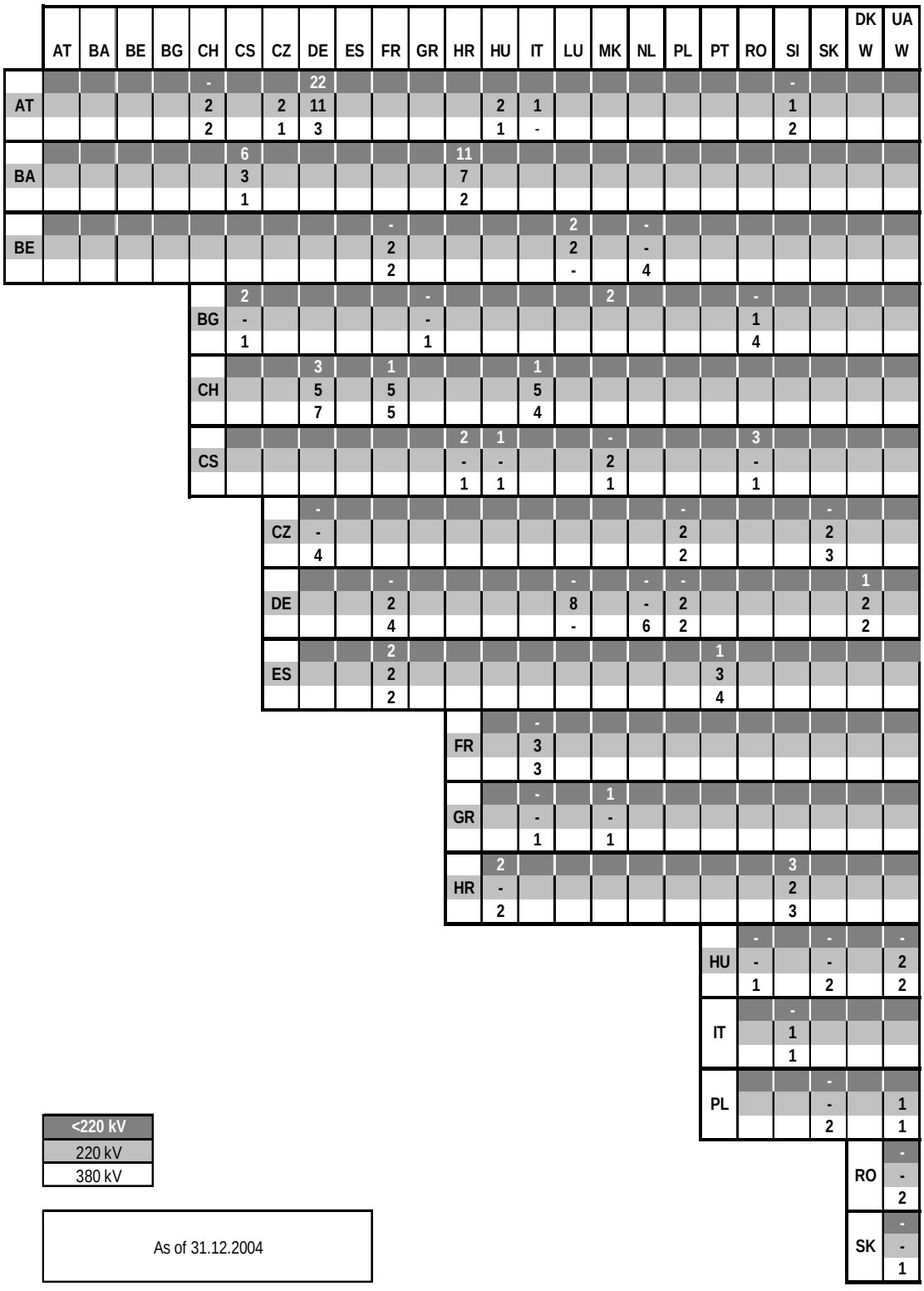
Circuit ID	From substation	To substation	Voltage [kV]	Thermal conventional transmission capacity [MVA]	Major Reason	Time whole year [min]	January [min]	February [min]	March [min]	April [min]	May [min]	June [min]	July [min]	August [min]	September [min]	October [min]	November [min]	December [min]
351.1.1	HR - Melina (HEP)	SI - Divaca (ELES)	380	1264	R1, R9	52950	1440		26409	3240					3279	3616	14966	
351.2.1	HR - Pehlin (HEP)	SI - Divaca (ELES)	220	366	R1, R9	5643	364				4799				480			
351.3.1	HR - Buje (HEP)	SI - Koper (ELES)	110	89	R9, R10	901					220				528		153	
351.4.1	HR - Matulji (HEP)	SI - Ilirska Bistrica (ELES)	110	53	R9	54830	971	6617		22365				21199	3146	532		
352.1.1	HR - Tumbri (HEP)	SI - Krško (ELES)	380	1316	R1	26005									22774	3231		
352.1.2	HR - Tumbri (HEP)	SI - Krško (ELES)	380	1316	R1, R9	28916			10						22775	6131		
352.2.1	HR - Mraclin (HEP)	SI - Cirkovce (ELES)	220	297	R8, R9	32107					3969	25160	33		2945			
352.3.1	HR - Nedeljanec (HEP)	SI - Formin (ELES)	110	115	R1, R8, R9	7939			3102			1132			457		3248	
361.1.1	HR - Konjsko (HEP)	BA - Mostar (JPCC)	400	1316	R1, R6, R9	11581		562		19	761	694		821	7530	239	955	
361.2.1	HR - Zakucac (HEP)	BA - Mostar (JPCC)	220	311	R1, R9	6201	1368				522	1010		1957	896	448		
361.3.1	HR - Knin (HEP)	BA - Grahovo (JPCC)	110	90	R8	28						28						
361.5.1	HR - Peruca (HEP)	BA - Buško Blato (JPCC)	110	90	R8, R9	278			269							9		
361.7.1	HR - Gracac (HEP)	BA - Kulen Vakuf (JPCC)	110	120	R2, R9	3722				1467		14			1799	442		
362.2.1	HR - Meduric (HEP)	BA - Prijedor (JPCC)	220	297	R1, R9	27662						23526		2606	1530			
363.2.1	HR - Dubrovnik (HEP)	BA - Trebinje (JPCC)	220	460	R1, R10	1434									627	807		
363.3.1	HR - Opuzen (HEP)	BA - Capljina (JPCC)	110	84	R9	113						8				105		
363.5.1	HR - Ston (HEP)	BA - Neum (JPCC)	110	76	R5	12					12							
363.6.1	HR - Komolac (HEP)	BA - Trebinje (JPCC)	110	84	R1, R2, R9	145434				43200	44640	42167		14977	393	57		
364.2.1	HR - Đakovo (HEP)	BA - Gradacac (JPCC)	220	229	R9	6497											6497	
364.3.1	HR - Đakovo (HEP)	BA - Tuzla (JPCC)	220	229	R9, R10	1277						315		56		394	512	
364.5.1	HR - Zupanja (HEP)	BA - Orasje (JPCC)	110	76	R1, R9	25452						2303			22687	462		
371.1.1	HR - Ernestinovo (HEP)	CS - S.Mitrovica (EPS)	380	1264	R2, R9	408284	44640	41760	44640	43200	44640	43200	44640	44640	43200	13581	143	
371.2.1	HR - Nijemci (HEP)	CS - Šid (EPS)	110	76	R1, R9	86147	91				2899					44640	38517	
371.3.1	HR - Beli Manastir (HEP)	CS - Apatin (EPS)	110	78	R1, R9	133178								44267	1071	44640	43200	
381.1.1	CS - Podgorica (EP CG)	BA - Trebinje (JPCC)	380	1264	R1, R5, R9	22383	30		508	4433	758		24	342		13559	2688	41
381.2.1	CS - Perucica (EP CG)	BA - Trebinje (JPCC)	220	311	R1, R2, R9	19721					270	709	2662			13670		2410
381.3.1	CS - Herceg Novi (EP CG)	BA - Trebinje (JPCC)	110	90	R1, R5	13909		64	32		3	189				13605		16
381.4.1	CS - Vilusi (EP CG)	BA - Bileca (JPCC)	110	84	R1, R5	2143	233		22	314	216	28	580	750				
382.1.1	CS - Piva (EP CG)	BA - Sarajevo 20 (JPCC)	220	366	R1, R5	4076					20						4056	
383.1.1	CS - Požega (EPS)	BA - Višegrad (JPCC)	220	311	R1, R9	16760						3143				13617		
383.2.1	CS - Lešnica (EPS)	BA - Bijeljina (JPCC)	110	123	R5	20							14	6				
383.3.1	CS - HE Zvornik (EPS)	BA - Zvornik (JPCC)	110	123	R1	176				176								
383.4.1	CS - Potpec (EPS)	BA - Višegrad (JPCC)	110	123	R5	10					10							
391.1.1	CS - Kosovo A (EPS)	MK - Skopje 1 (ESM)	220	311	R9	526320	43920	41760	44640	43200	44640	43200	44640	44640	43200	44640	43200	44640
391.2.1	CS - Kosovo A (EPS)	MK - Skopje 1 (ESM)	220	311	R9	526320	43920	41760	44640	43200	44640	43200	44640	44640	43200	44640	43200	44640
391.3.1	CS - Kosovo B (EPS)	MK - Skopje 5 (ESM)	380	1264	R1, R6, R9	45335				43200	1875				20	240		
401.1.1	DE - Herrenwyk (E.ON Netz)	SE - Kruseberg (Sydkraft/Vattenfall)	450	600	R1,R2,R6,R10	22035	34		51				58		1173	106	20613	
404.1.1	CZ - Nošovice (CEPS)	SK - Varin (SEPS)	400	1465	R1, R10	28864					1037	25052	33		699	2043		
410.1.1	CZ - Liskovec (CEPS)	SK - Pov. Bystrica (SEPS)	220	269	R1, R9	7956				170			7786					
420.1.1	CZ - Sokolnice (CEPS)	SK - Senica (SEPS)	220	318	R1	46289									35548	10741		
424.1.1	CZ - Sokolnice (CEPS)	SK - Krizovany (SEPS)	400	1503	R1	10919				10919								
430.1.1	CZ - Sokolnice (CEPS)	SK - Stupava (SEPS)	400	1559	R1, R2, R9	17628						13916	2845		318	549		
440.1.1	UA_W - Mukachevo (NPC Ukrenergo)	SK - V.Kapusany (CEPS)	400	1186	R1, R2, R6	9194		1804	3988	2528			57			358	459	
443.1.1	CZ - Albrechtice (CEPS)	PL - Dobrzen (PSE-Operator SA)	400	1088	R1,R2,R7,R9	31009					553	672	4694			725	20369	3996
444.1.1	CZ - Nošovice (CEPS)	PL - Wielopole (PSE-Operator SA)	400	1088	R1,R2,R6,R8	37103					489		12971		2314	1542	16546	3241
450.1.1	CZ - Liskovec (CEPS)	PL - Kopanina (PSE-Operator SA)	220	400	R1	2710						731					1979	
460.1.1	CZ - Liskovec (CEPS)	PL - Bujaków (PSE-Operator SA)	220	400	R1, R6	16354							831			6299	9224	
501.1.1	DE - Vierraden (VE Transmission)	PL - Krajnik (PSE-Operator SA)	220	173	R1	4011		133			1861		2017					
501.1.2	DE - Vierraden (VE Transmission)	PL - Krajnik (PSE-Operator SA)	220	173	R1, R2	2504		195					1327	982				
502.1.1	DE - Hagenwerder (VE Transmission)	PL - Mikulowa (PSE-Operator SA)	380	1302	R1	2835	722			2113								
502.1.2	DE - Hagenwerder (VE Transmission)	PL - Mikulowa (PSE-Operator SA)	380	1302	R1	2771	995			1776								
601.1.1	ES - Pinar del Rey (REE)	MA - Melloussa (ONE)	400	730	R1	1874							702	1172				
700.1.1	PL - Krosno Iskrzynia (PSE-Operator SA)	SK - Lemešany (SEPS)	400	1252	R1, R2	17920								15195		2363		362
700.1.2	PL - Krosno Iskrzynia (PSE-Operator SA)	SK - Lemešany (SEPS)	400	1252	R1, R2	29145								26175		2364		606
702.1.1	PL - Zamosc (PSE-Operator SA)	UA_W - Dobrotwor (NPC Ukrenergo)	220	309	R1	14726					4306				6129		4291	
703.1.1	PL - Bialystok (PSE-Operator SA)	BY - Ros (Grodnoenergo)	220	215	R1, R2, R10	31398	4463	5728	329						20878			
704.1.1	PL - Slupsk (PSE-Operator SA)	SE - Stämo (SvK)	450	600	R1, R6, R9	19407						3508	15	55			15829	
710.1.1	HU - Györ (MAVIR)	SK - Gabcikova (SEPS)	400	1246	R1, R2	3788							254		3534			
711.1.1	HU - Göd (MAVIR)	SK - Levice (SEPS)	400	1246	R1	11049							6199	4850				
720.1.1	HU - Albertirsa (MAVIR)	UA_W - Zahidno Ukrainska (NPC Ukrenergo)	750	4000	R1, R9	49711	440				2213	12644	25709	3844			2098	2763
721.1.1	HU - Sajószöged (MAVIR)	UA_W - Mukacevo (NPC Ukrenergo)	400	1635	R1, R2	16424				14223		543				543		1115
722.1.1	HU - Kisvarda (MAVIR)	UA_W - Mukacevo (NPC Ukrenergo)	220	275	R1	6938			6265					673				
722.1.2	HU - Tiszalök (MAVIR)	UA_W - Mukacevo (NPC Ukrenergo)	220	275	R1, R10	6388						6378	10					
730.1.1	HU - Sándorfalva (MAVIR)	RO - Arad (TRANSELECTRICA)	400	1246	R1	29639	480	540	3959	22560						2100		
740.1.1	RO - Rosiori (TRANSELECTRICA)	UA_W - Mukacevo (NPC Ukrenergo)	400	1400	R1, R2	57640		14897	600	300	2732	21235	12088			5446	342	
741.1.1	RO - Isaccea (TRANSELECTRICA)	UA_W - Niwnitschnoi Ukrainska (NPC Ukrenergo	750	4000	R1	4980										4980		
750.1.1	RO - Stânca (TRANSELECTRICA)	MD - Costesti (Moldenergo)	110	90	R1	2700				660							2040	
751.1.1	RO - Husi (TRANSELECTRICA)	MD - Cioara (Moldenergo)	110	90	R1, R2	17939				1439		7200					9300	
752.1.1	RO - Ţutora (TRANSELECTRICA)	MD - Ungheni (Moldenergo)	110	90	R1	13260									13260			
351.1.1	CS - Leśnica (EPS)	BA - Bijeljina (JPCC)	110	123	R5	20												
383.2.1	CS - Lešnica (EPS)	BA - Bijeljina (JPCC)	110	123	R5	20												

Reasons: R1 - Maintenance, R2 - Repair, R3 - New construction, R4 - Overload (also calculated), R5 - False operation, R6 - Failure in prodection 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 (km)				Transformers 400kV → 220kV		
					in the network		
Country	220 kV	of which cable	400 kV	of which cable	Number	Capacity GVA	
AT[1]	3765	5	2474	56	17	10,8	
BA	1507	0	766	0	7	3,0	
BE	400	0	1301	0	6	2,1	
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
CH	4956	15	1780	0	18	10,0	
CS	2589	0	1814	0	12	4,8	
CZ	1922	0	3421	0	4	1,9	
DE[2]	15900	20	19600	63	89	52,8	
ES	16839	110	16358	15	88	48,0	
FR	26264	921	21005	2	208	106,0	
GR	10940	111	4316	160	43	11,5	
HR	1145	0	1159	0	4	2,0	
HU	1188	0	2172	0	3	1,5	
IT	11579	860	9960	317	51	20,5	
LU	236	6	0	0	0	0,0	
MK[3]	70	0	397	0	0	0,0	
NL	683	6	2003	0	4	2,5	
PL	7895	0	4832	245	16	7,2	
PT	2820	17	1454	0	7	3,2	
RO	4132	0	4630	0	22	9,0	
SI	328	0	510	0	3	1,2	
SK	962	0	1753	0	3	1,4	
UCTE	**116120**	**2071**	**101705**	**858**	**605**	**299,3**	
DK_W	39	0	833	14	0	0,0	
UA_W	594	0	590[4]	0	6[4]	2,3[4]	

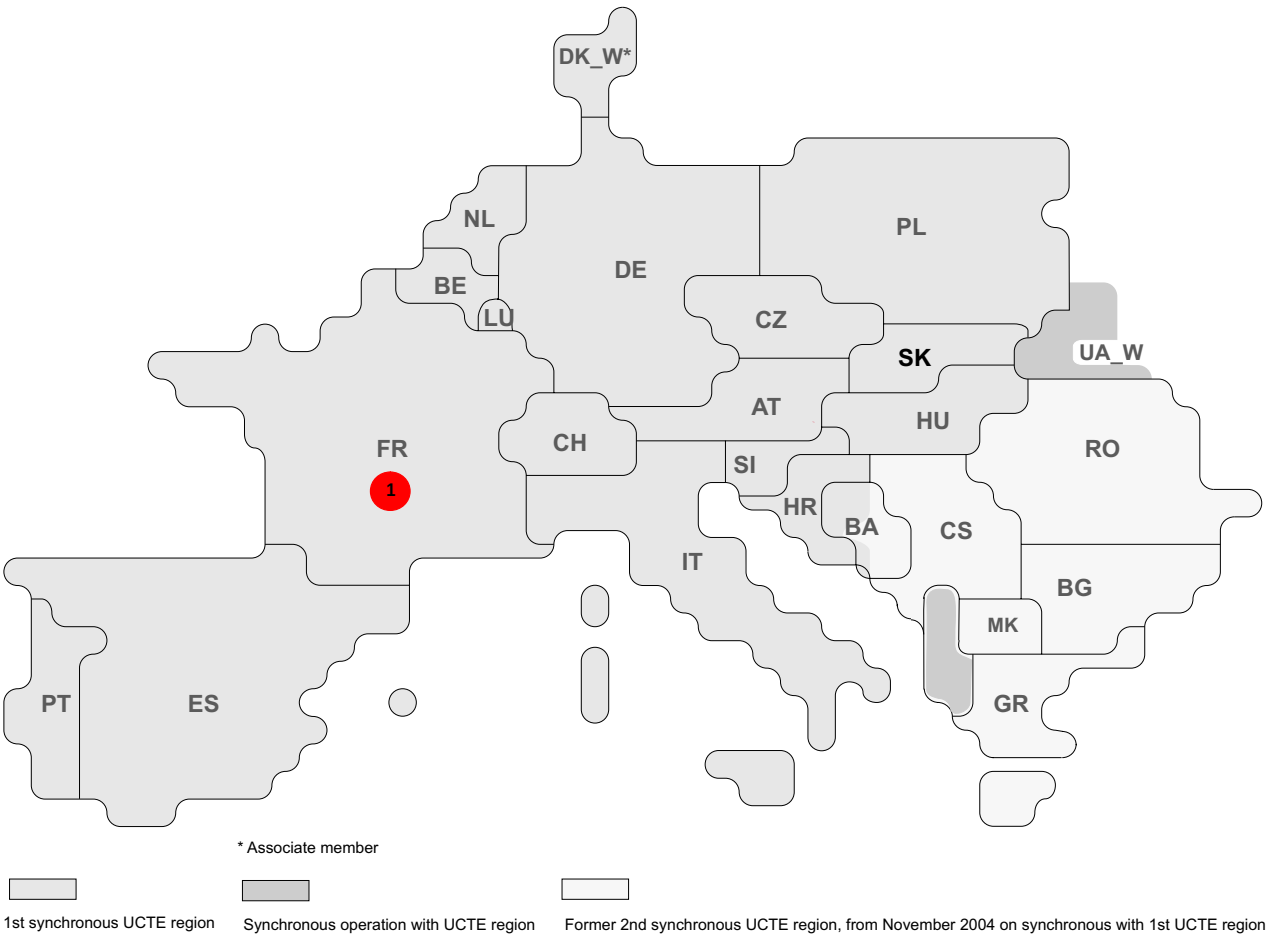
[1] Values as of December 31, 2000
[2] Values transformers of power units as of 2000; values transformers in the network as of 2003
[3] Values as of December 31, 2003
[4] Including 330 kV and 750 kV equipment

	Transformers 220kV ➔ < 220kV				Transformers 400kV ➔ < 220kV			
	of power units		in the network		of power units		in the network	
	Number	Capacity GVA	Number	Capacity GVA	Number	Capacity GVA	Number	Capacity GVA
	64	7,1	67	11,5	3	1,2	13	3,9
	15	2,0	15	2,0	3	1,0	7	2,0
	3	0,8	25	3,2	14	8,4	25	12,5
	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	101	4,7	149	13,9	8	4,3	2	0,4
	23	4,6	51	7,7	11	4,9	13	3,8
	5	1,1	20	4,0	33	11,3	41	11,3
	111	31,0	438	82,1	100	62,0	190	54,7
	0	0,0	0	0,0	0	0,0	53	14,0
	234	31,0	1175	108,0	103	86,0	55	13,0
	86	8,0	399	16,0	17	5,4	0	0,0
	7	1,3	21	3,2	2	0,3	7	2,4
	0	0,0	26	4,2	0	0,0	22	5,5
	112	23,0	153	25,3	119	35,8	212	54,4
	11	1,8	19	2,7	0	0,0	0	0,0
	0	0,0	4	0,6	2	0,5	7	2,1
	9	3,2	25	4,4	6	3,6	32	15,6
	58	13,9	109	17,3	25	8,6	36	9,6
	61	4,1	63	7,6	18	3,9	16	4,5
	46	9,3	91	17,6	13	5,3	21	10,3
	0	0,0	15	2,3	0	0,0	5	1,5
	8	1,5	13	2,6	20	4,1	19	5,0
	954	**148,4**	**2878**	**336,1**	**497**	**246,7**	**776**	**226,4**
	0	0,0	2	1,0	4	2,0	18	8,0
	7	1,8	14	1,9	5 [4]	1,3 [4]	1 [4]	1,0 [4]


AT
BA
BE
BG
CH
CS
CZ
DE
ES
FR
GR
HR
HU
IT
PL
RO
SK
DK W
UA W
<220 kV
220 kV
380 kV
As of 31.12.2004

T12 Commissioning of new transmission installations

Country	Name of line	Designed for	Equipped for	Operated with
Germany	Eschen-Feldkirch	2 x 110 kV	1 x 110 kV	1 x 110 kV
	Diele - Hanekenfähr Emsland West/Rhede	2 x 380 kV	2 x 380 kV	1 x 380 kV
	Connection Wustermark	2 x 380 kV	2 x 380 kV	2 x 380 kV
Greece	Argyroupolis - Lavrion	1 x 400 kV	1 x 400 kV	1 x 150
	Substation HT s/s Olympic Village : 150 kV Substation HT s/s Heron pp : 150 kV Substation EHT s/s Argyroupolis : 400 kV			
Italy	S.Fiorano - Robbia	2 x 380 kV	2 x 380 kV	2 x 380 kV
	Teramo - S.Giacomo	1 x 380 kV	1 x 380 kV	1 x 380 kV
	Laino - Altomonte	1 x 380 kV	1 x 380 kV	1 x 380 kV
	Candela - Foggia	1 x 380 kV	1 x 380 kV	1 x 380 kV

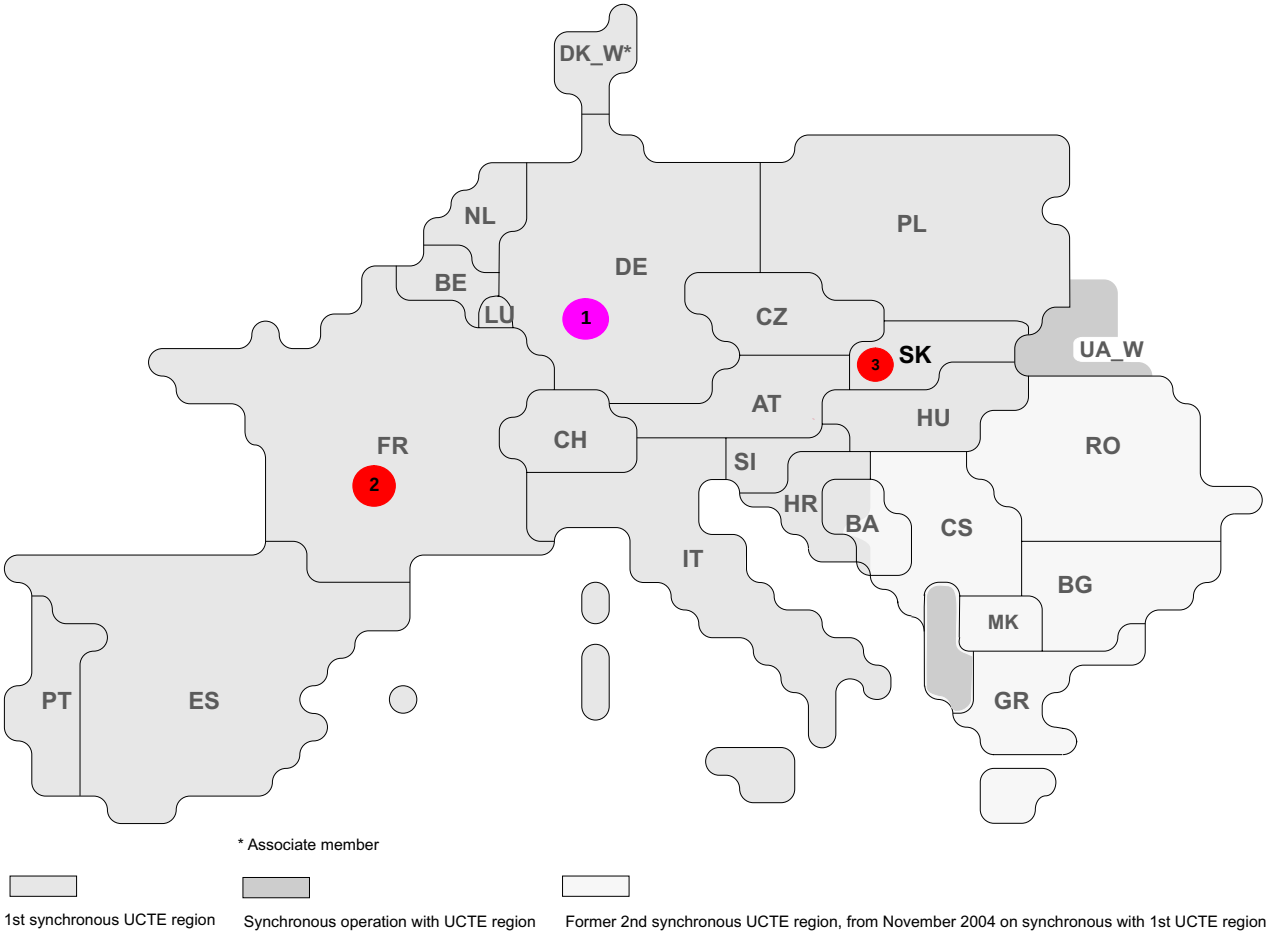


Reasons:

R4	Overload (also calculated brake)	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	Malassis	R6	53	196	55	0,23

[1] (year [in min] * power loss) / consumption last 12 months

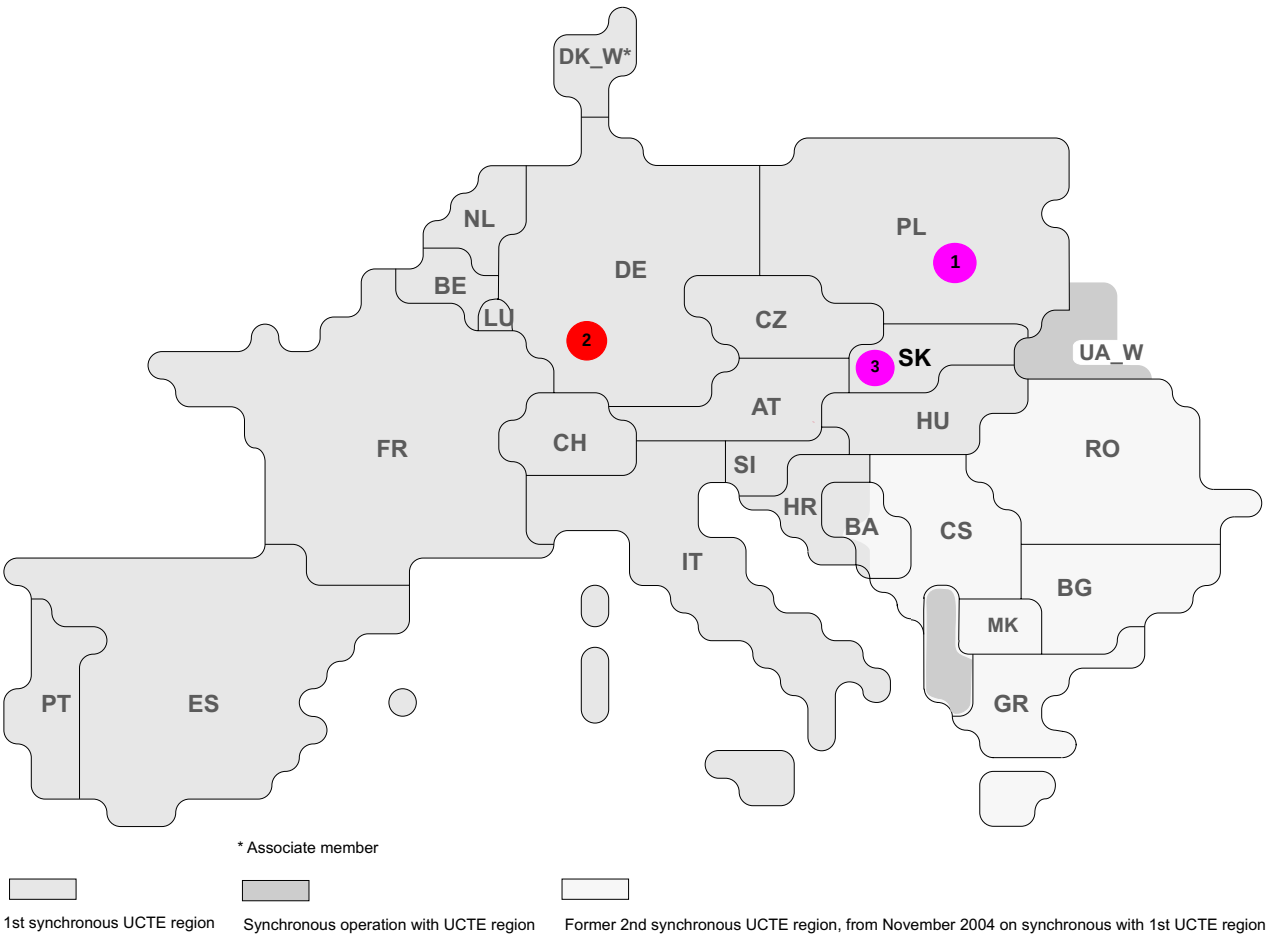


Reasons:

R4	Overload (also calculated brake)	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	Biblis	R9	910	1300	42	1,36
2	FR	Louifert	R5	16	121	8	0,14
3	SK	Lemesany	R6	3	22	7	0,44

[1] (year [in min] * power loss) / consumption last 12 months

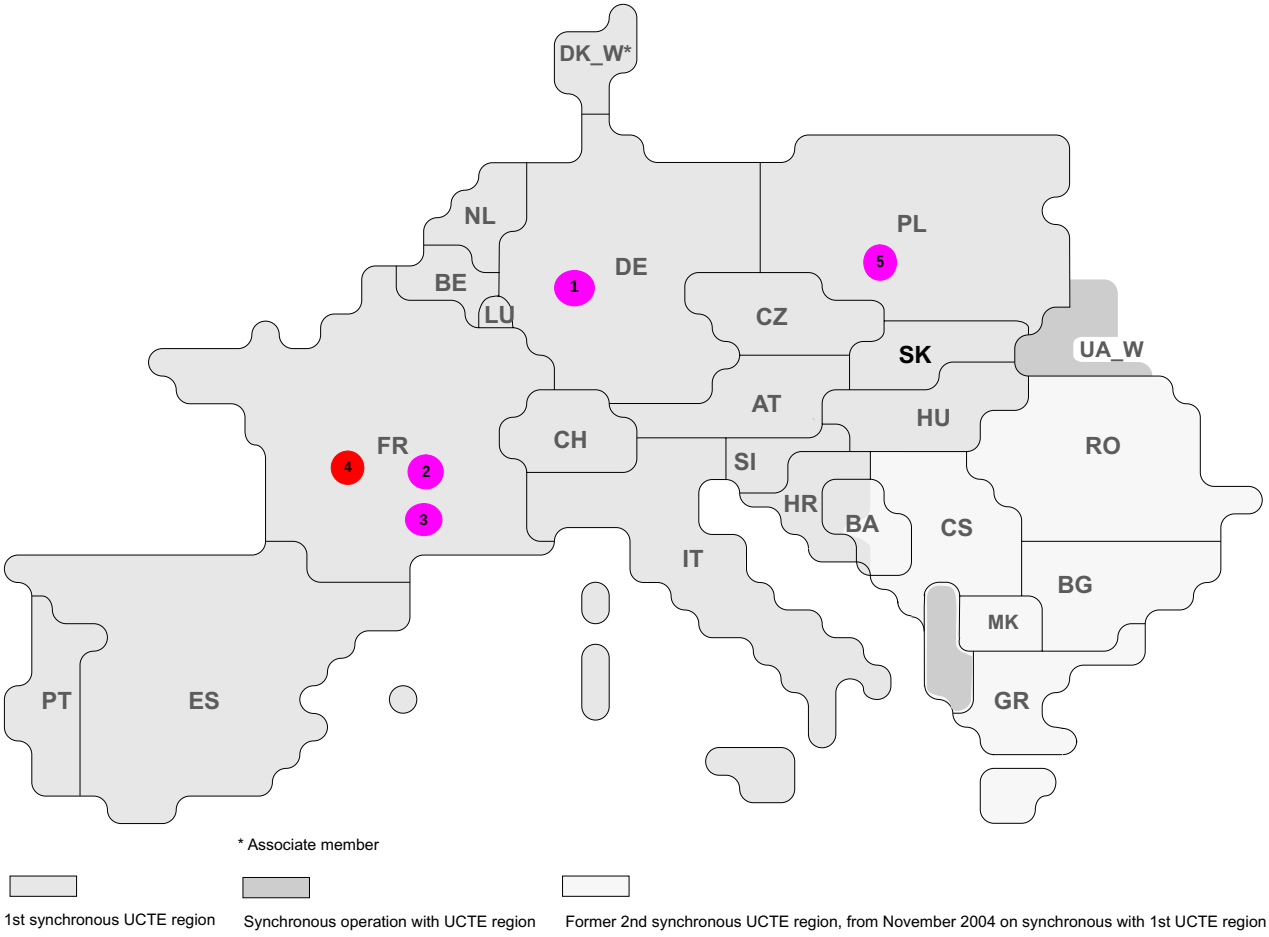


Reasons:

R4	Overload (also calculated brake)	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	Polaniec	R9	382	285	154	1,10
2	DE	BASF W 210	R5	71	120	82	0,12
4	SK	Lemesany	R9	3	20	10	0,40

[1] (year [in min] * power loss) / consumption last 12 months

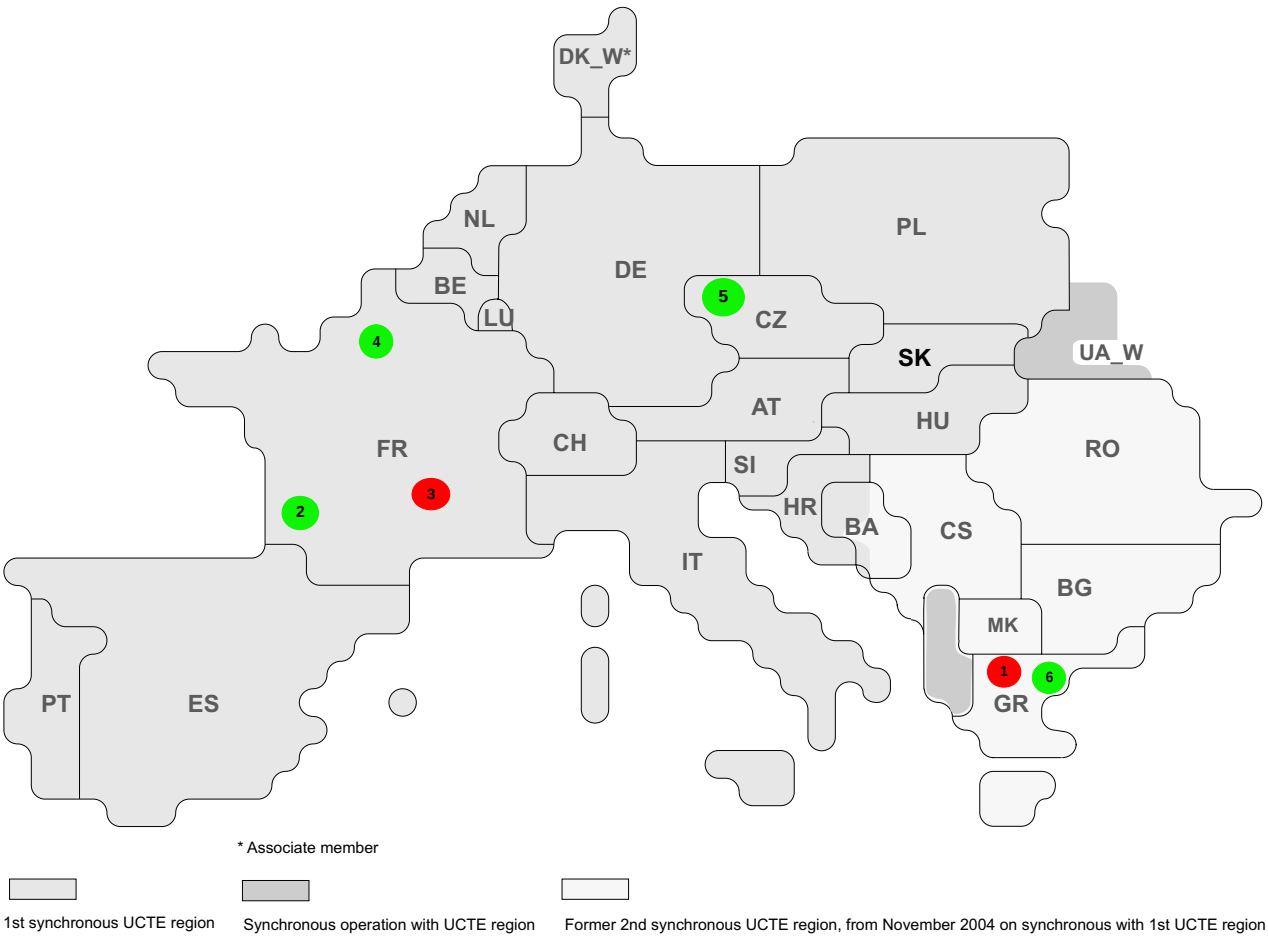


Reasons:

R4	Overload (also calculated brake)	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	Herne	R9	871	260	201	0,27
2	FR	Hotel DIEU	R9	64	92	42	0,10
3	FR	Nanterre	R9	19	32	37	0,03
4	FR	Argenteuil	R5	9	40	33	0,04
5	PL	Lagisza	R9	0	80	93	0,31

[1] (year [in min] * power loss) / consumption last 12 months

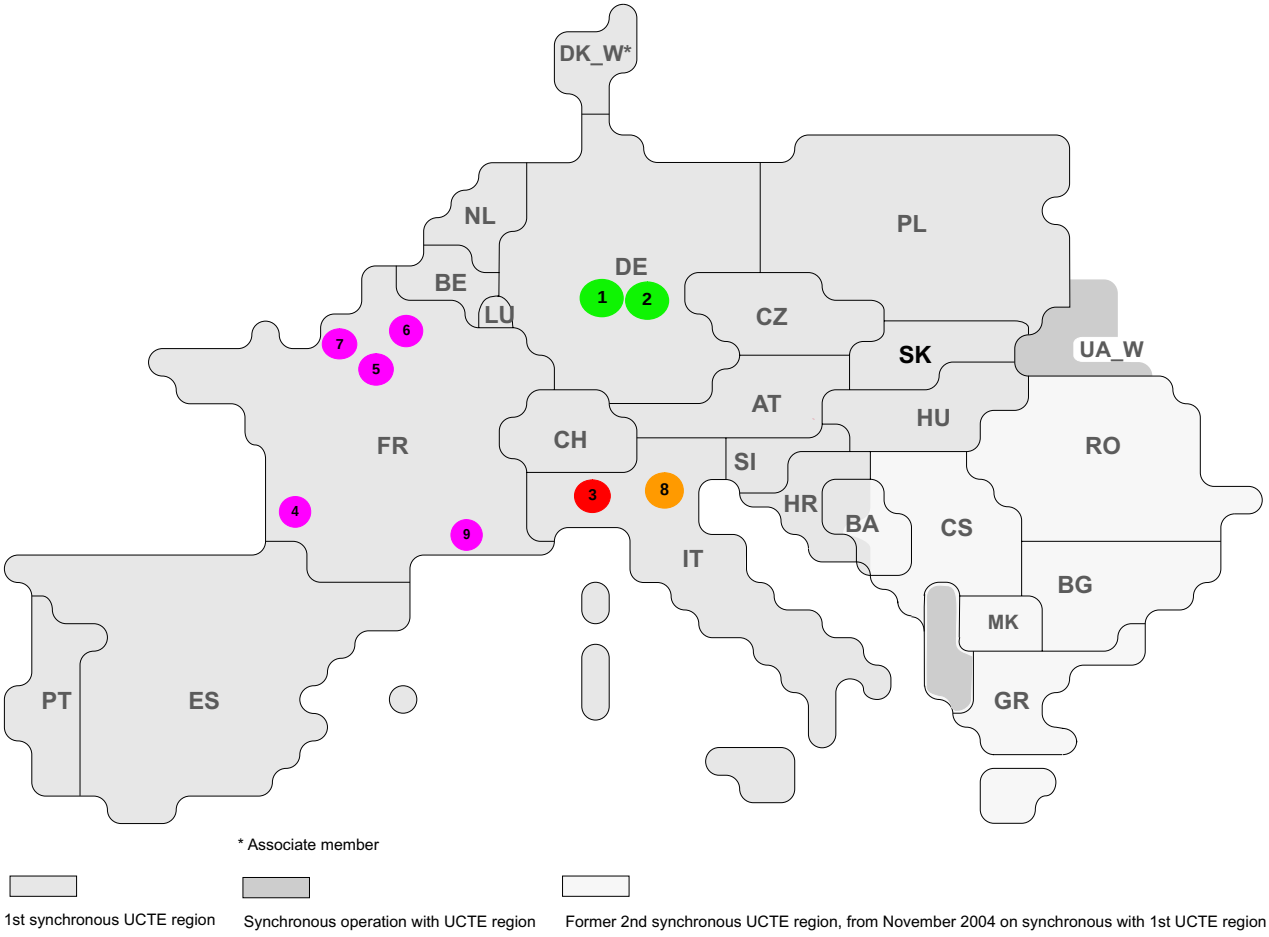


Reasons:

R4	Overload (also calculated brake)	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	40	600	15	6,31
2	FR	Marsillon	R8	22	31	44	0,04
3	FR	Vaise	R6	5	25	12	0,03
4	FR	Cergy	R8	5	55	8	0,06
5	CZ	Hradec	R8	0	200	33	1,74
6	GR	Kardia	R8	0	900	5	9,47

[1] (year [in min] * power loss) / consumption last 12 months

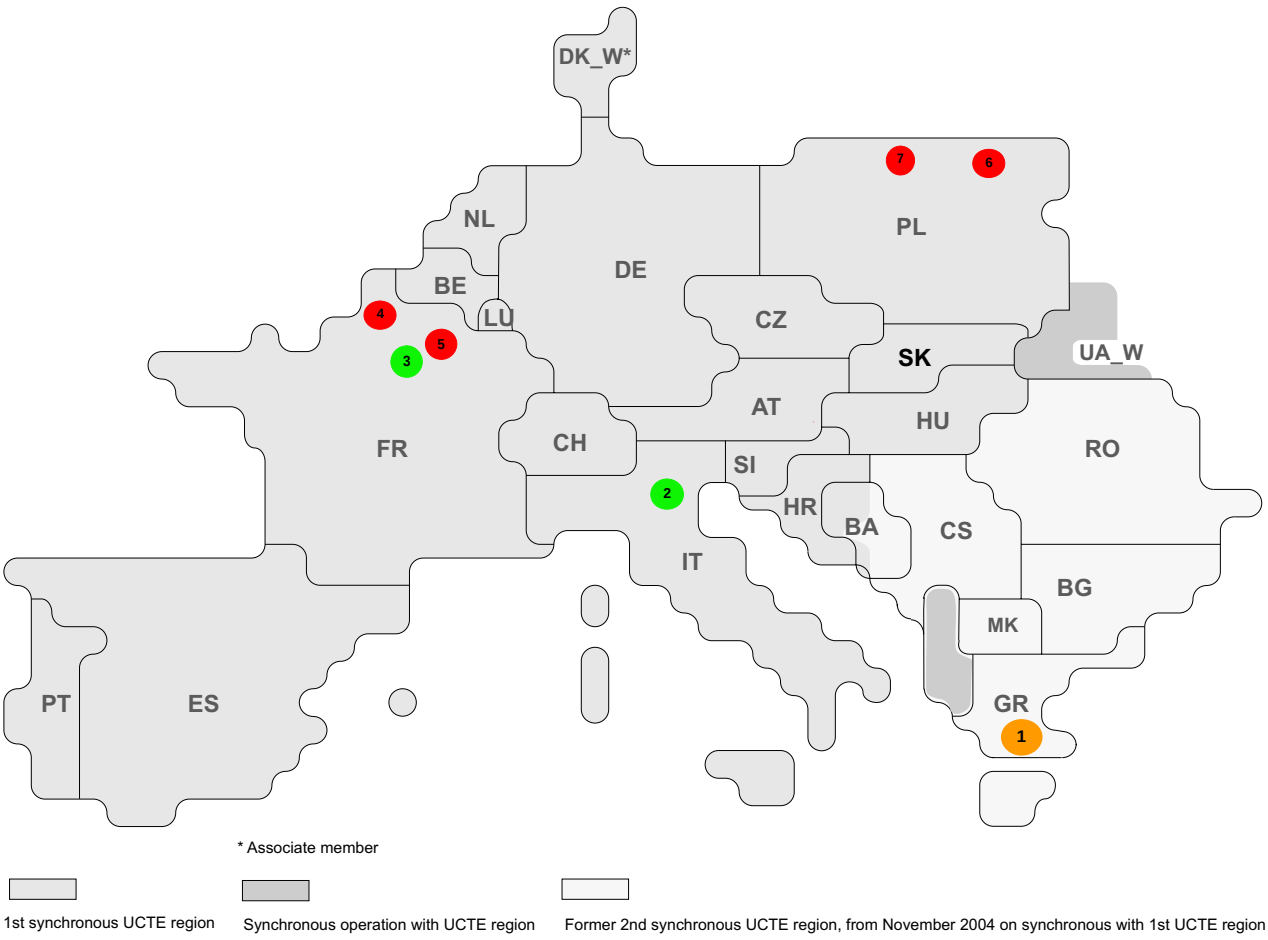


Reasons:

R4	Overload (also calculated brake)	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	Altenfeld	R8	280	160	105	0,17
2	DE	Altenfeld	R8	212	795	16	0,82
3	IT	Nave	R6	146	108	81	0,18
4	FR	Mouguere	R9	124	20	371	0,02
5	FR	Bourget	R9	122	14	522	0,02
6	FR	Ampere	R9	86	97	103	0,11
7	FR	Ranville	R9	28	17	203	0,02
8	IT	Sanlux	R4	24	142	10	0,23
9	FR	Enco de Botle	R9	16	22	88	0,02

[1] (year [in min] * power loss) / consumption last 12 months

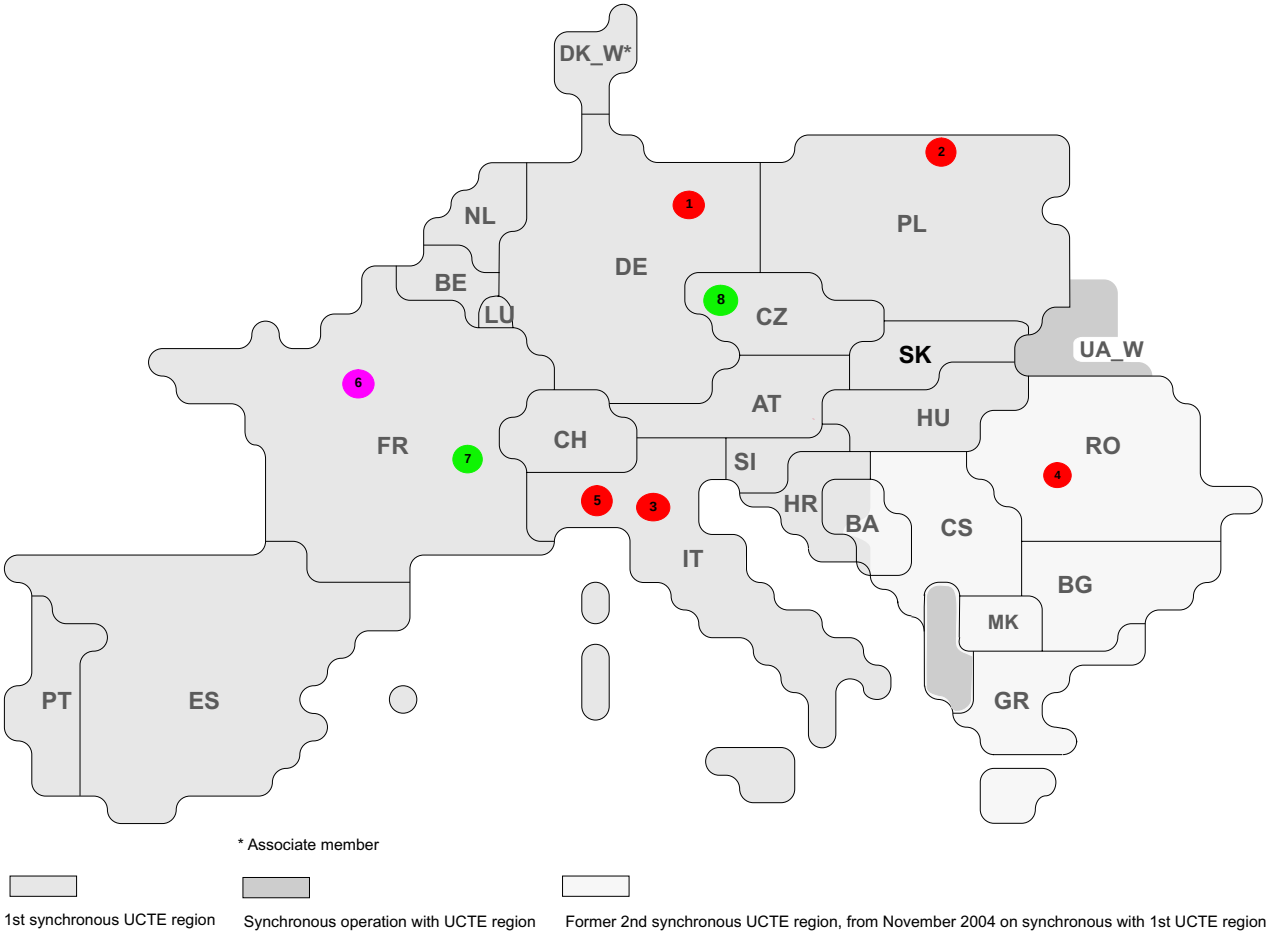


Reasons:

R4	Overload (also calculated brake)	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	substations in the south of Greece	R4	13500	4500	180	47,31
2	IT	Fratta	R7	150	415	22	0,69
3	FR	Pusy	R8	34	11	188	0,01
4	FR	Brode	R6	22	2	676	0,00
5	FR	Champs-Regnaud	R5	2	12	9	0,01
6	PL	Pulawy	R6	0	70	558	0,28
7	PL	Kozienice	R5	0	611	207	2,40

[1] (year [in min] * power loss) / consumption last 12 months

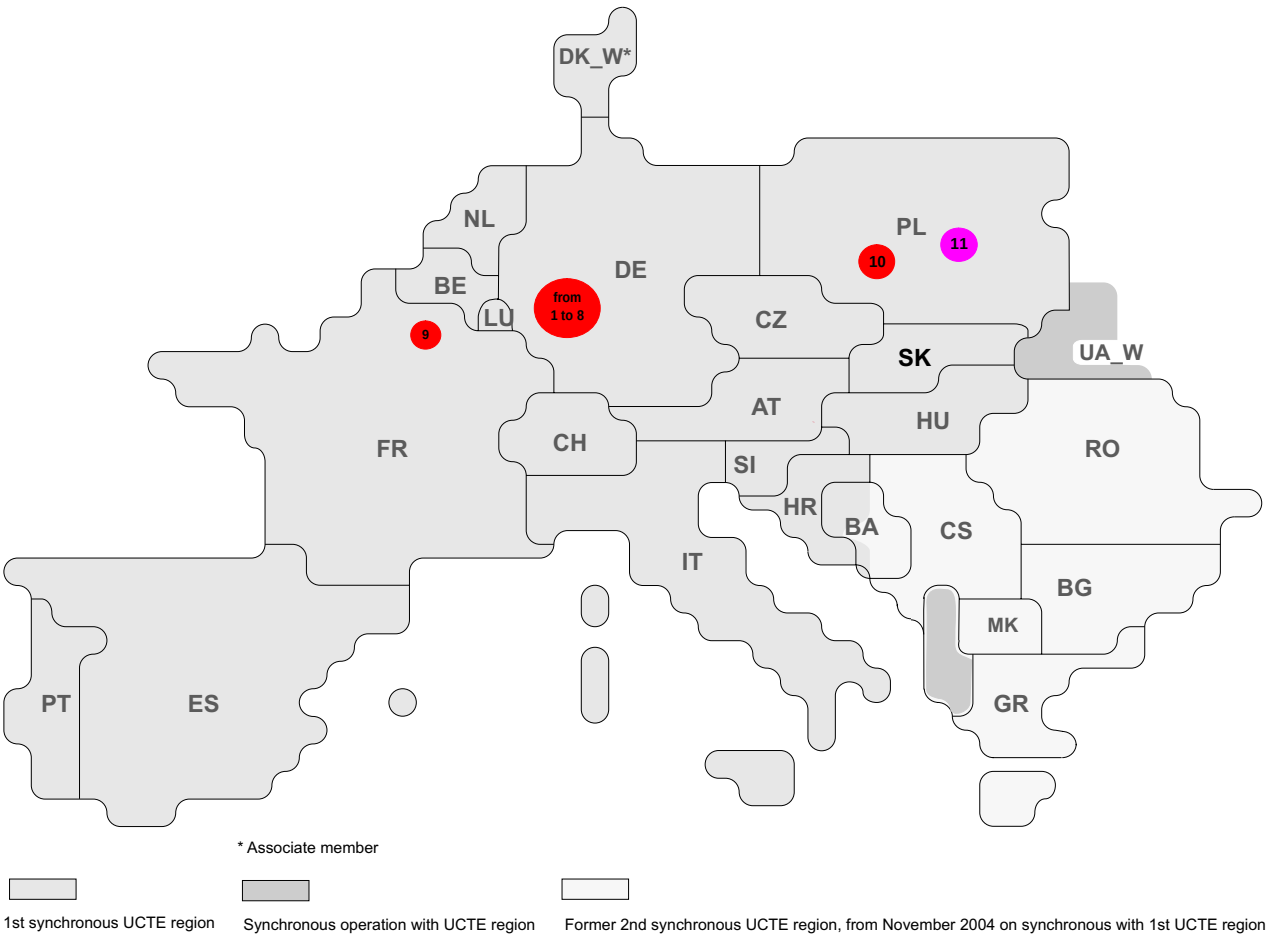


Reasons:

R4	Overload (also calculated brake)	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	Reuter	R6	24824	187	7965	0,19
2	PL	Slupsk	R6	425	500	51	1,97
3	IT	Ponte Resia	R6	66	367	11	0,61
4	RO	Tulcea Vest	R5	16	188	5	1,98
5	IT	Roma Ovest	R5	11	135	5	0,22
6	FR	Gambetta	R9	3	50	5	0,06
7	FR	Cornier	R8	0	5	4	0,01
8	CZ	Vitkov	R7	0	280	165	2,42

[1] (year [in min] * power loss) / consumption last 12 months

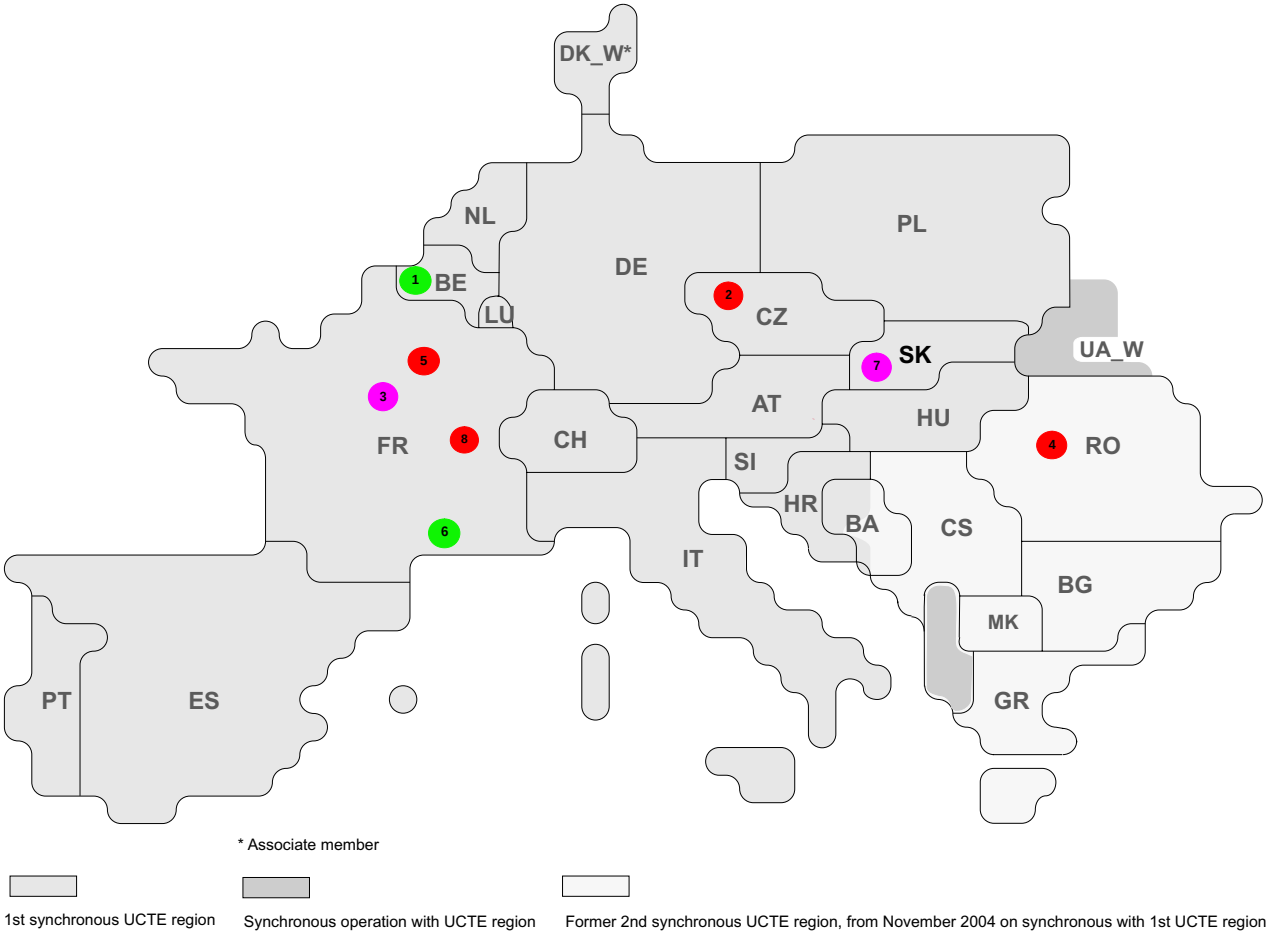


Reasons:

R4	Overload (also calculated brake)	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	Trier	R6	386	80	290	0,08
2	DE	Quint	R6	176	80	132	0,08
3	DE	Niederstedem	R6	138	80	104	0,08
4	DE	Wengerohr	R6	129	80	97	0,08
5	DE	Trier	R6	105	80	79	0,08
6	DE	Quint	R6	73	140	31	0,14
7	DE	Bauler	R6	73	140	31	0,14
8	DE	Trier	R6	73	140	31	0,14
9	FR	Vendin	R6	1	22	4	0,02
10	PL	Wielopole	R5	0	216	211	0,85
11	PL	Mikulowa	R10	0	261	294	1,03

[1] (year [in min] * power loss) / consumption last 12 months

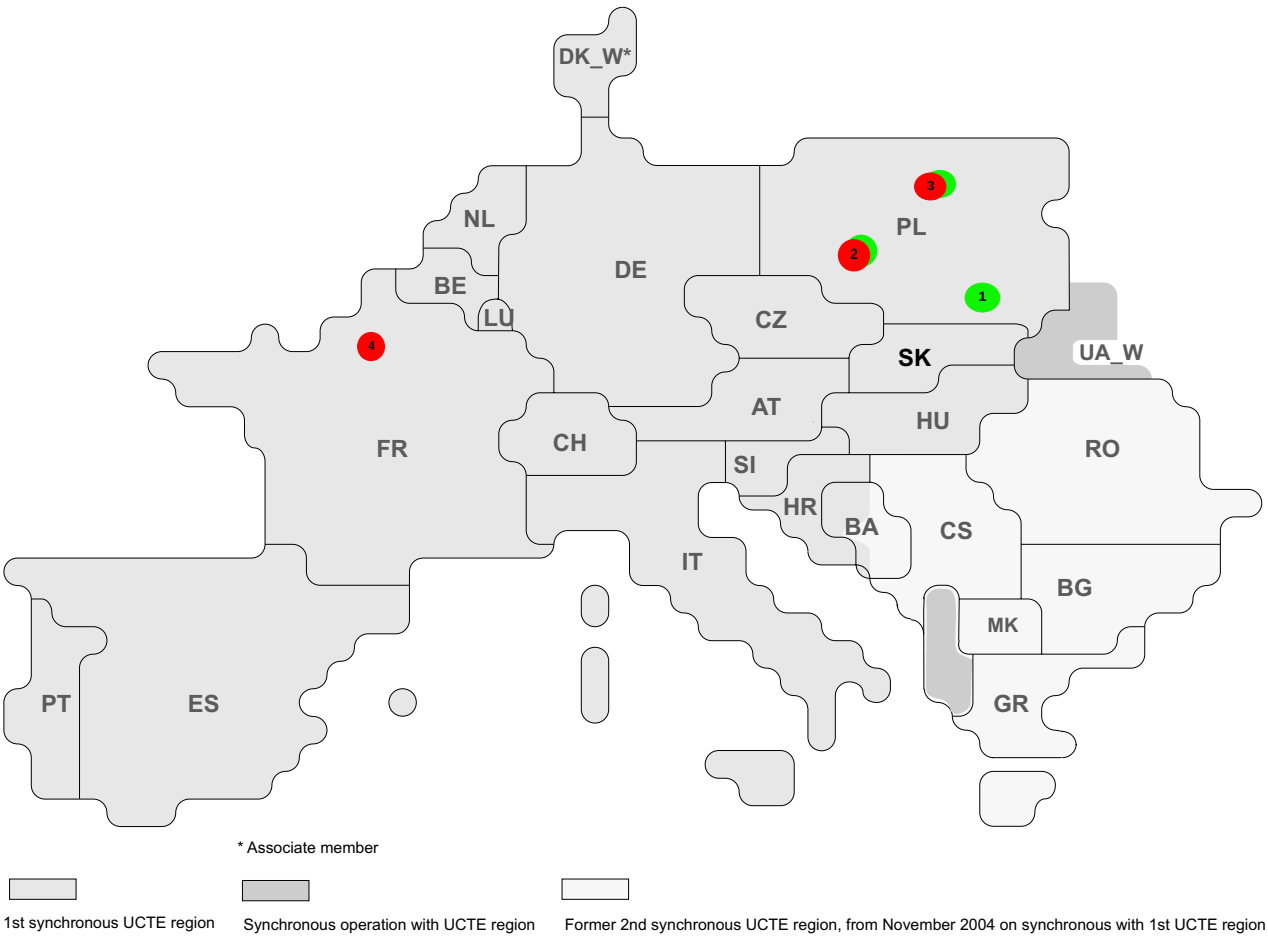


Reasons:

R4	Overload (also calculated brake)	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	BE	Aubange	R8	1091	15	4	0,09
2	CZ	Prosenice	R6	217	66	53	0,57
3	FR	Versailles	R10	66	121	144	0,14
4	RO	Gheorgheni	R6	26	40	39	0,42
5	FR	Les Crechets	R6	8	18	43	0,02
6	FR	Montpellier	R8	7	55	8	0,06
7	SK	Levice	R9	7	78	5	1,56
8	FR	Pariset	R6	6	52	8	0,06

[1] (year [in min] * power loss) / consumption last 12 months

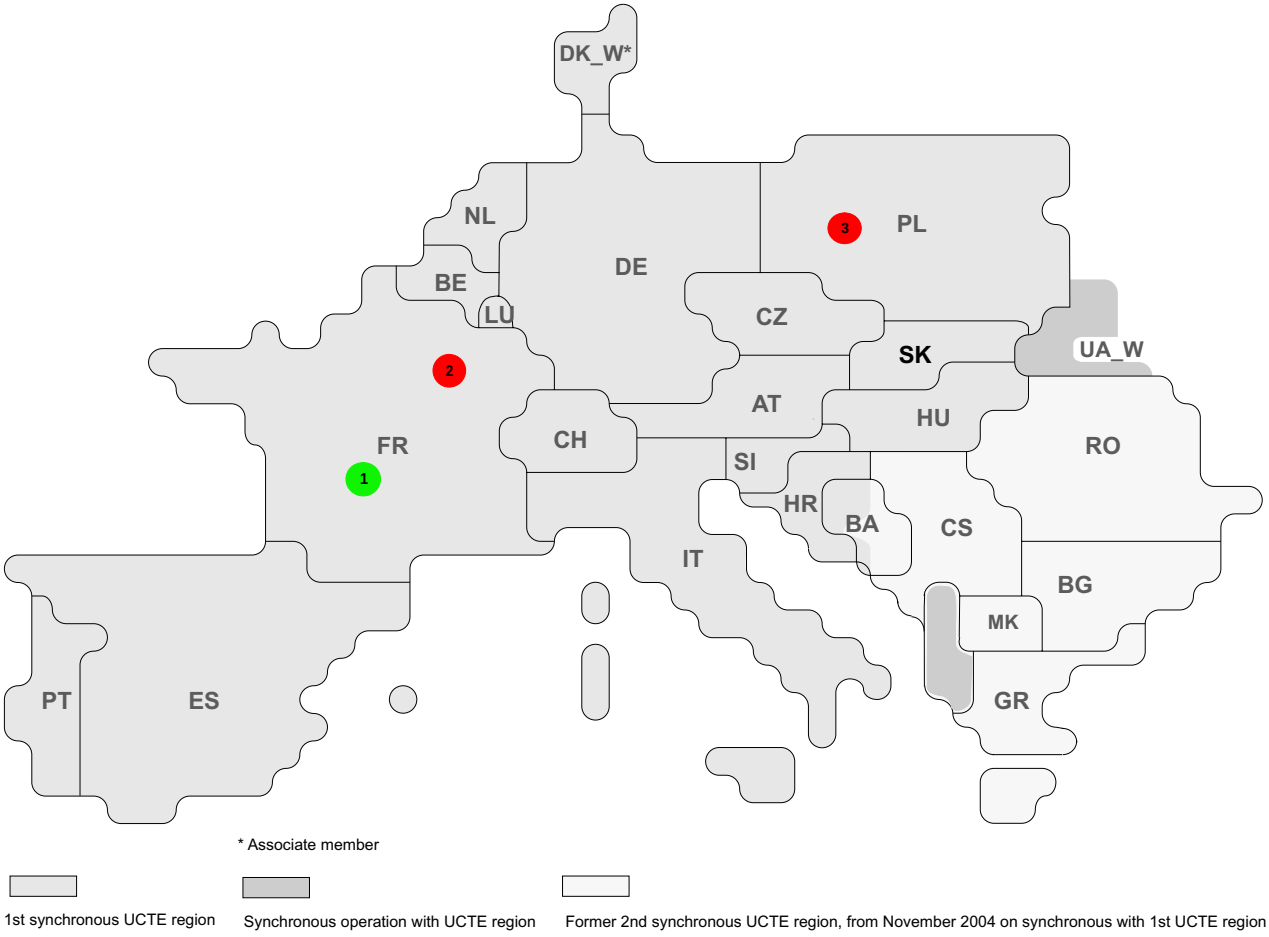


Reasons:

R4	Overload (also calculated brake)	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	Albrechtice	R7	0	360	22050	1,45
2	PL	Kopanina	R6, R8	0	360	16206	1,45
3	PL	Wielopole	R6, R8	0	990	21965	3,98
4	FR	Haut Vinage	R6	2	19	7	0,02

[1] (year [in min] * power loss) / consumption last 12 months



Reasons:

R4	Overload (also calculated brake)	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	Amargues	R8	76	45	204	0,05
2	FR	Ampère	R6	5	36	9	0,04
3	PL	Mikulowa	R6	0	190	287	0,77

[1] (year [in min] * power loss) / consumption last 12 months

Inventory										
	Conventional thermal units								Nuclear thermal units	
Country	10 MW ≤ x < 200 MW		200 MW ≤ x < 400 MW		≥ 400 MW		Total			
	Number	MW	Number	MW	Number	MW	Number	MW	Number	MW
AT [1]	57	2941	9	2796	0	0	66	5737	0	0
BA	9	512	6	1445	0	0	15	1957	0	0
BE	71	3249	11	3171	3	1380	85	7800	7	5802
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH [2]	17	282	0	0	0	0	17	282	5	3220
CS	14	1104	15	4056	2	1240	31	6400	0	0
CZ	169	9661	0	0	1	460	170	10121	6	3537
DE [3]	403	23572	66	20178	47	27749	516	71499	18	20491
ES	508	14549	46	16387	14	7748	568	38684	9	7694
FR	230	6604	31	7648	16	9640	277	23892	59	63363
GR	22	2477	17	4735	0	0	39	7212	0	0
HR	24	1137	2	508	0	0	26	1645	0	0
HU	52	2531	14	2918	0	0	66	5449	4	1755
IT	1730	18563	70	22601	29	18117	1829	59281	0	0
LU	0	0	1	385	0	0	1	385	0	0
MK	2	301	3	606	0	0	5	907	0	0
NL	97	3998	19	5783	14	8177	130	17958	1	449
PL	227	11793	78	19146	2	1095	307	32034	0	0
PT	31	1545	15	4496	0	0	46	6041	0	0
RO	88	6628	11	3039	0	0	99	9667	1	655
SI	2	267	1	312	1	676	4	1255	1	670
SK	24	2068	1	214	0	0	25	2282	6	2640
UCTE	**3777**	**113782**	**416**	**120424**	**129**	**76282**	**4322**	**310488**	**117**	**110276**
DK_W	28	957	8	2776	1	626	37	4359	0	0
UA_W	16	2500	0	0	0	0	16	2500	0	0

[1] Values conventional thermal units as of December 2003
[2] Values nuclear thermal units as of December 2003
[3] Values conventional thermal units as of December 2000

Country	Commissioning				Decommissioning			
	Tc		Tn		Tc		Tn	
	Number	MW	Number	MW	Number	MW	Number	MW
AT	0	0	0	0	0	0	0	0
BA	0	0	0	0	0	0	0	0
BE	0	0	0	0	0	0	0	0
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	1	10	0	0	1	22	0	0
CS	0	0	0	0	0	0	0	0
CZ	1	67	0	0	0	0	0	0
DE	0	0	0	0	1	500	0	0
ES	16	3909	0	0	0	0	0	0
FR	9	892	0	0	3	82	0	0
GR	1	147	0	0	0	0	0	0
HR	0	0	0	0	0	0	0	0
HU	6	213	0	0	3	363	0	0
IT	66	3587	0	0	105	816	0	0
LU	0	0	0	0	0	0	0	0
MK	0	0	0	0	0	0	0	0
NL	1	810	0	0	0	0	0	0
PL	2	254	0	0	8	541	0	0
PT	1	392	0	0	0	0	0	0
RO	5	306	0	0	0	0	0	0
SI	0	0	0	0	0	0	0	0
SK	0	0	0	0	0	0	0	0
UCTE	**109**	**10587**	**0**	**0**	**121**	**2324**	**0**	**0**
DK_W	1	10	0	0	0	0	0	0
UA_W	0	0	0	0	0	0	0	0

Inventory of hydro power units										
	1 MW ≤ x < 10 MW		10 MW ≤ x < 50 MW		50 MW ≤ x < 100 MW		≥ 100 MW		**Total**	
Country	Number	MW	Number	MW	Number	MW	Number	MW	Number	MW
AT [1]	208	650	101	2526	20	1492	26	6698	355	11366
BA	2	10	16	335	12	774	7	945	37	2064
BE	28	101	0	0	0	0	3	1308	31	1409
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	178	619	102	2444	39	2597	37	7527	356	13187
CS	11	30	37	870	8	583	11	2014	67	3497
CZ	50	147	7	168	0	0	5	1711	62	2026
DE [2]	234	898	78	1648	14	1026	15	4841	341	8413
ES	455	1513	130	2996	41	2826	38	10952	664	18287
FR	499	1587	179	4374	41	3025	58	16002	777	24988
GR	6	31	3	63	2	120	11	2845	22	3059
HR	22	69	21	576	6	453	8	978	57	2076
HU	10	46	0	0	0	0	0	0	10	46
IT	593	1952	232	5450	29	1957	40	11301	894	20660
LU	3	20	1	11	0	0	1	1096	5	1127
MK	22	36	3	73	2	265	1	150	28	524
NL	0	0	3	35	0	0	0	0	3	35
PL	62	179	4	78	3	195	5	1688	74	2140
PT	89	414	37	882	31	2008	8	1395	165	4699
RO	169	955	82	1771	17	1138	8	1416	276	5279
SI	1	8	11	288	5	319	2	230	19	845
SK	29	176	36	700	10	820	6	734	81	2430
UCTE	**2671**	**9441**	**1083**	**25288**	**280**	**19598**	**290**	**73831**	**4324**	**128157**
DK_W	3	8	0	0	0	0	0	0	3	8
UA_W	3	27	0	0	0	0	0	0	3	27

[1] Values as of December 2003
[2] Values as of December 2000

Country	Commissioning		Decommissioning	
	Number	MW	Number	MW
AT	0	0	0	0
BA	2	30	0	0
BE	0	0	0	0
BG	n.a.	n.a.	n.a	n.a.
CH	1	1	0	0
CS	0	0	0	0
CZ	0	0	0	0
DE	2	530	0	0
ES	0	0	0	0
FR	6	12	2	3
GR	0	0	0	0
HR	0	0	0	0
HU	0	0	0	0
IT	36	45	13	15
LU	0	0	0	0
MK	0	0	0	0
NL	0	0	0	0
PL	2	4	0	0
PT	3	128	0	0
RO	3	37	0	0
SI	0	0	0	0
SK	0	0	0	0
UCTE	**55**	**787**	**15**	**18**
DK_W	0	0	0	0
UA_W	0	0	0	0

UCTE-TERMINOLOGY 4

Terminology

All explanations concerning the terms used in the UCTE statistics are available on our online terminology on the UCTE website, www.ucte.org under " Statistics / General Terms ". Please take also a look at the Terminology Index (Statistical Yearbook 2004 page 5 and 6) for the corresponding chapters.

All explanations to the UCTE Power Balance / System Adequacy (Table 8a and Table 8b) are also available on the UCTE website under "Statistics/Terms System Adequacy Assesment (SAA)".

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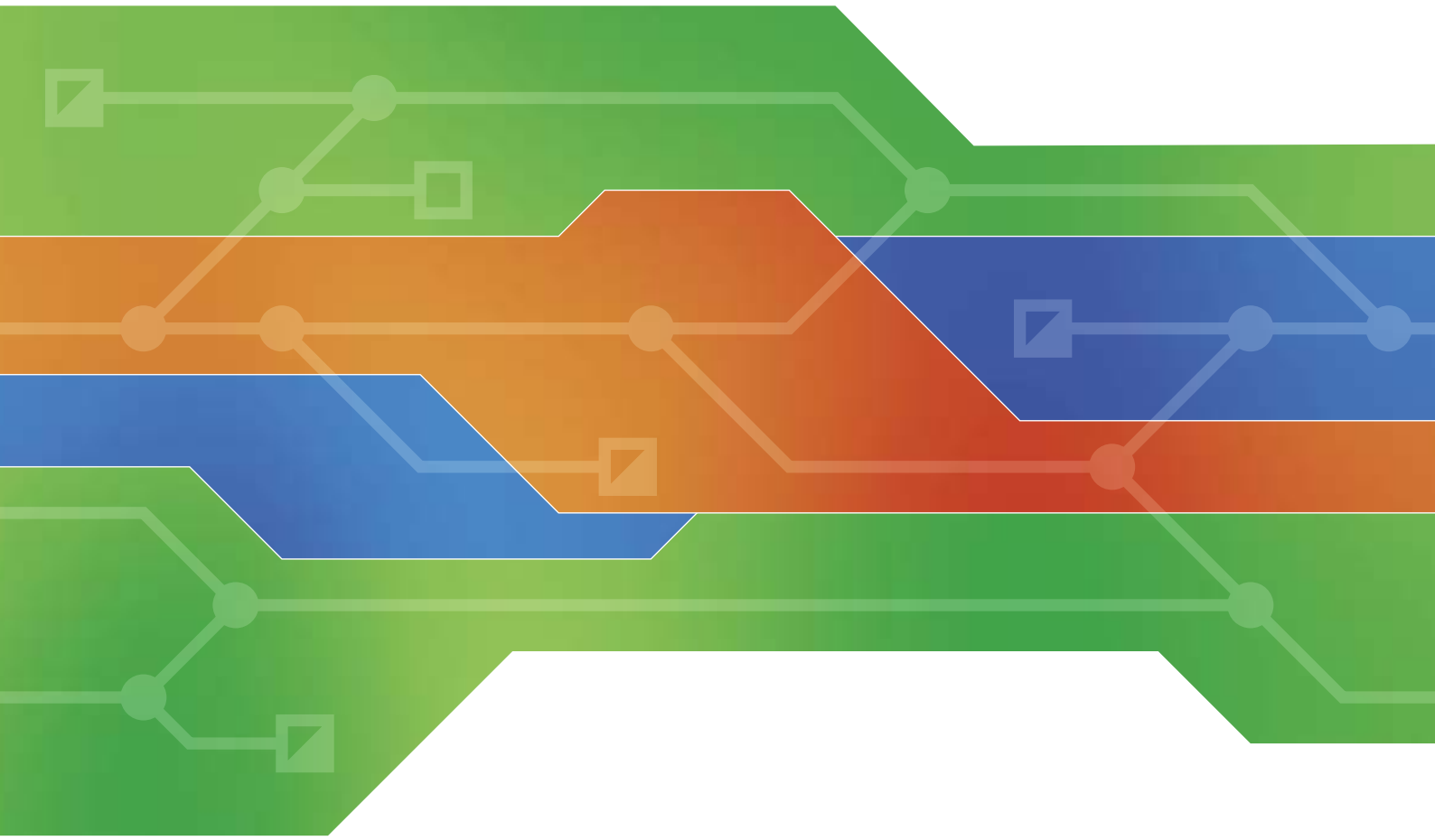

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