



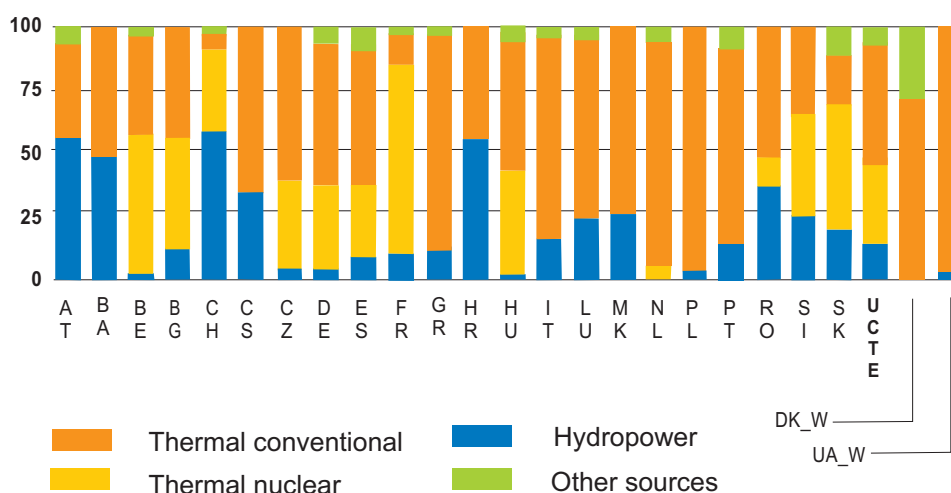
SYSTEM INFORMATION

3

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

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² The Bulgarian values of production and consumption are gross

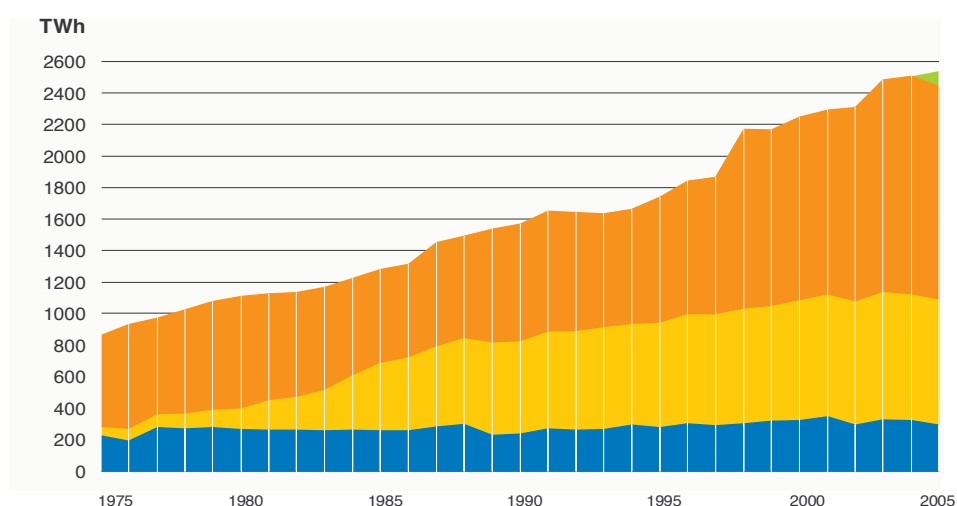


Country	Thermal nuclear		Thermal conventional		Hydro-production		Other renewable		of which	Not clearly identifiable		Total TWh
	TWh	%	TWh	%	TWh	%	TWh	%	TWh	TWh	%	
AT	-	-	24,1	37,7	35,5	55,7	-	-	-	4,2	6,6	63,8 ²
BA	-	-	6,6	52,4	6,0	47,6	-	-	-	-	-	12,6
BE	45,3	54,8	33,7	40,8	1,5	1,9	2,1	2,5	0,2	-	-	82,7 ²
BG	18,7	42,1	20,9	47,3	4,7	10,5	-	-	-	-	-	44,3
CH	22,0	38,0	2,2	3,8	32,8	56,6	0,9	1,6	0,01	-	-	57,9 ²
CS	-	-	27,5	66,4	13,9	33,6	-	-	-	-	-	41,5 ²
CZ	23,3	30,5	49,8	65,4	3,0	4,0	0,1	0,1	0,02	-	-	76,2 ²
DE	154,5	26,9	357,6	62,3	23,6	4,1	38,4	6,7	28,9	-	-	574,1 ²
ES	55,0	21,1	157,2	60,4	22,5	8,6	25,8	9,9	17,3	-	-	260,5 ²
FR	430,0	78,3	59,0	10,7	56,0	10,2	4,3	0,8	1,0	-	-	549,2
GR ³	-	-	43,3	86,7	5,6	11,2	1,1	2,1	1,0	-	-	49,9 ²
HR	-	-	5,2	44,6	6,4	55,2	0,02	0,2	0,01	-	-	11,6 ²
HU	13,0	39,3	17,9	54,0	0,2	0,6	1,4	4,2	0,01	0,6	1,8	33,1 ²
IT	-	-	241,1	82,9	42,4	14,6	7,4	2,5	2,3	-	-	290,8 ²
LU	-	-	3,1	76,0	0,9	21,3	0,1	2,6	0,05	-	-	4,1
MK	-	-	5,0	77,1	1,5	22,9	-	-	-	-	-	6,5 ²
NL	3,8	3,9	86,7	89,9	-	-	5,9	6,2	2,1	-	-	96,4 ²
PL	-	-	140,2	97,4	3,6	2,5	0,2	0,2	0,1	-	-	144,0 ²
PT	-	-	35,2	80,7	4,9	11,3	3,5	8,1	1,7	-	-	43,6 ²
RO	5,1	9,4	29,8	54,3	19,9	36,3	-	-	-	-	-	54,8 ²
SI	5,6	42,5	4,6	34,8	3,0	22,7	-	-	-	-	-	13,2
SK	16,4	56,2	5,5	18,9	4,6	15,7	0,01	-	0,01	2,7	9,2	29,1 ²
UCTE	792,7	31,2	1356,0	53,4	292,3	11,5	91,2	3,6	54,7	7,5	0,3	2539,7 ²
DK_W	-	-	15,5	70,7	0,02	0,1	6,4	29,2	5,0	-	-	21,9 ²
UA_W	-	-	8,0	98,6	0,1	1,4	-	-	-	-	-	8,1 ²

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

² Including deliveries from industry

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



Year	Hydro power	Thermal nuclear	Thermal conventional	Other sources ¹	Total TWh
	TWh	TWh	TWh	TWh	
1975	222,9	50,0	585,4		858,3
1976	191,2	69,5	669,1		929,8
1977	276,2	82,2	610,4		968,8
1978	266,1	97,4	659,9		1023,4
1979	275,4	110,6	691,3		1077,3
1980	263,4	133,9	712,1		1109,4
1981	256,4	191,0	678,4		1125,8
1982	258,0	211,2	665,5		1134,7
1983	255,9	258,8	653,3		1168,0
1984	257,0	348,5	617,3		1222,8
1985	255,2	426,3	597,3		1278,8
1986	253,3	464,4	593,6		1311,3
1987	276,8	510,4	662,4		1449,6
1988	295,4	545,0	650,3		1490,8
1989	226,7	583,5	725,4		1535,6
1990	233,0	588,1	747,1		1568,1
1991	265,2	614,3	768,3		1647,7
1992	257,8	626,5	754,2		1638,6
1993	262,2	648,0	719,9		1630,0
1994	290,3	636,6	730,6		1657,5
1995 ²	276,0	659,5	803,1		1738,5
1996	298,8	690,7	852,0		1841,4
1997	286,0	701,3	876,5		1863,8
1998 ³	298,5	725,0	1146,4		2169,8
1999	314,6	729,9	1119,5		2164,0
2000	319,1	764,3	1163,0		2246,4
2001	346,5	773,1	1171,5		2291,0
2002	289,7	784,6	1229,5		2303,9
2003 ⁴	321,7	814,8	1348,1		2484,6
2004	319,8	798,6	1386,8		2505,2
2005	292,3	792,6	1356,0	98,7	2539,7

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

² As of September 1995 total German values

³ Including values of CZ, HU, PL, SK as of 1998

⁴ Including values of RO, BG as of 2003

National electricity consumption

Country	GWh	D % ¹	repr % ²	Country	GWh	D % ¹	repr % ²
AT ³	63174	-6,1	90/100	HU	39314	2,8	100
BA	11191	4,9	100	IT	330441	1,5	100
BE	87169	-1,3	100	LU	6237	-2,3	99
BG	36083	3,0	100	MK	8074	8,5	100
CH	63047	4,4	100	NL	114658	3,3	100
CS	41632	0,3	100	PL	130612	0,3	100
CZ	62693	1,9	100	PT	49863	4,6	96
DE	556371	0,7	100	RO	51885	2,2	100
ES	252764	9,2	98	SI	12767	-4,7	95
FR	482400	1,1	100	SK	26283	-0,1	100
GR ⁴	52876	3,1	100				
HR	16557	3,7	100	DK_W	21296	0,9	100
UCTE	2496091	1,9		UA_W	4362	-1,5	100

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 In January, February and March 90%, the other months 100%

⁴ The values for Greece refer to the interconnected system and not to the whole country.

Highest load 3rd Wednesday of each country

Maximum load in each country

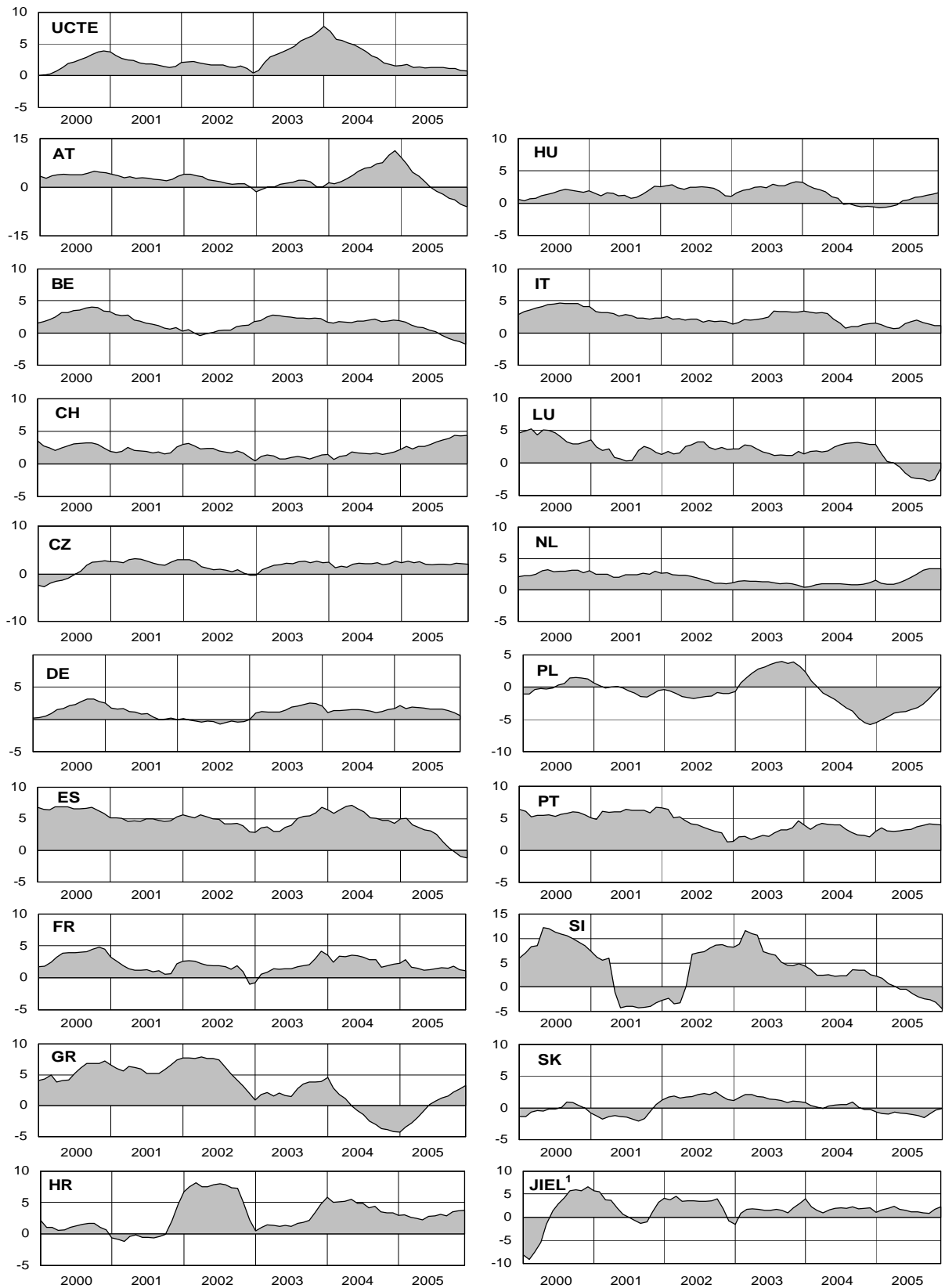
Country	MW	Date	Time	MW	Date	Day	Time
AT ⁶	10521	19 January	06:00 p.m.	9190	12 December	Monday	06:30 p.m.
BA	1821	21 December	06:00 p.m.	2005	31 December	Saturday	06:00 p.m.
BE	13059	21 December	07:00 p.m.	13731	13 December	Tuesday	06:00 p.m.
BG	6222	21 December	07:00 p.m.	6502	09 February	Wednesday	07:00 p.m.
CH	9724	21 December	11:00 a.m.	9783	21 December	Wednesday	11:45 a.m.
CS	7126	21 December	06:00 p.m.	7621	09 February	Wednesday	08:00 p.m.
CZ	9576	16 February	01:00 p.m.	10011	28 November	Monday	05:00 p.m.
DE	82527	16 November	06:00 p.m.	76700	15 December	Thursday	05:45 p.m.
ES ⁷	40972	21 December	07:00 p.m.	43378	27 January	Thursday	08:00 p.m.
FR	82319	21 December	07:00 p.m.	86024	28 February	Monday	07:15 p.m.
GR ⁴	9140	20 July	01:00 p.m.	9491	03 August	Wednesday	01:00 p.m.
HR	2810	21 December	06:00 p.m.	2900	02 March	Wednesday	08:00 p.m.
HU ⁸	6146	19 January	03:00 p.m.	6439	24 November	Thursday	03:00 p.m.
IT	54115	21 December	06:00 p.m.	55015	20 December	Tuesday	06:00 p.m.
LU	942	16 November	07:00 p.m.	1046	29 November	Tuesday	07:00 p.m.
MK	1450	21 December	06:00 p.m.	1490	31 December	Saturday	06:00 p.m.
NL	16858	16 November	06:00 p.m.	16916	09 December	Friday	05:30 p.m.
PL	21578 ⁹	21 December	05:00 p.m.	21680	21 December	Wednesday	05:00 p.m.
PT	8669	21 December	08:00 p.m.	8528	27 January	Thursday	08:30 p.m.
RO	7974	21 December	06:00 p.m.	8102	15 December	Thursday	05:00 p.m.
SI	2074	21 December	08:00 a.m.	2073	24 November	Thursday	07:00 p.m.
SK	4323	21 December	05:00 p.m.	4346	12 December	Monday	05:00 p.m.
UCTE	389858	21 December	07:00 p.m.				
DK_W	3569	16 February	06:00 p.m.				
UA_W	978	21 December	05:00 p.m.	1024	11 February	Friday	06:00 p.m.

⁶ The maximum load values represents 82%.

⁷ The maximum load values represents 96 %.

⁸ The highest load on the 3rd Wednesday are gross load values, the maximum load are net load values.

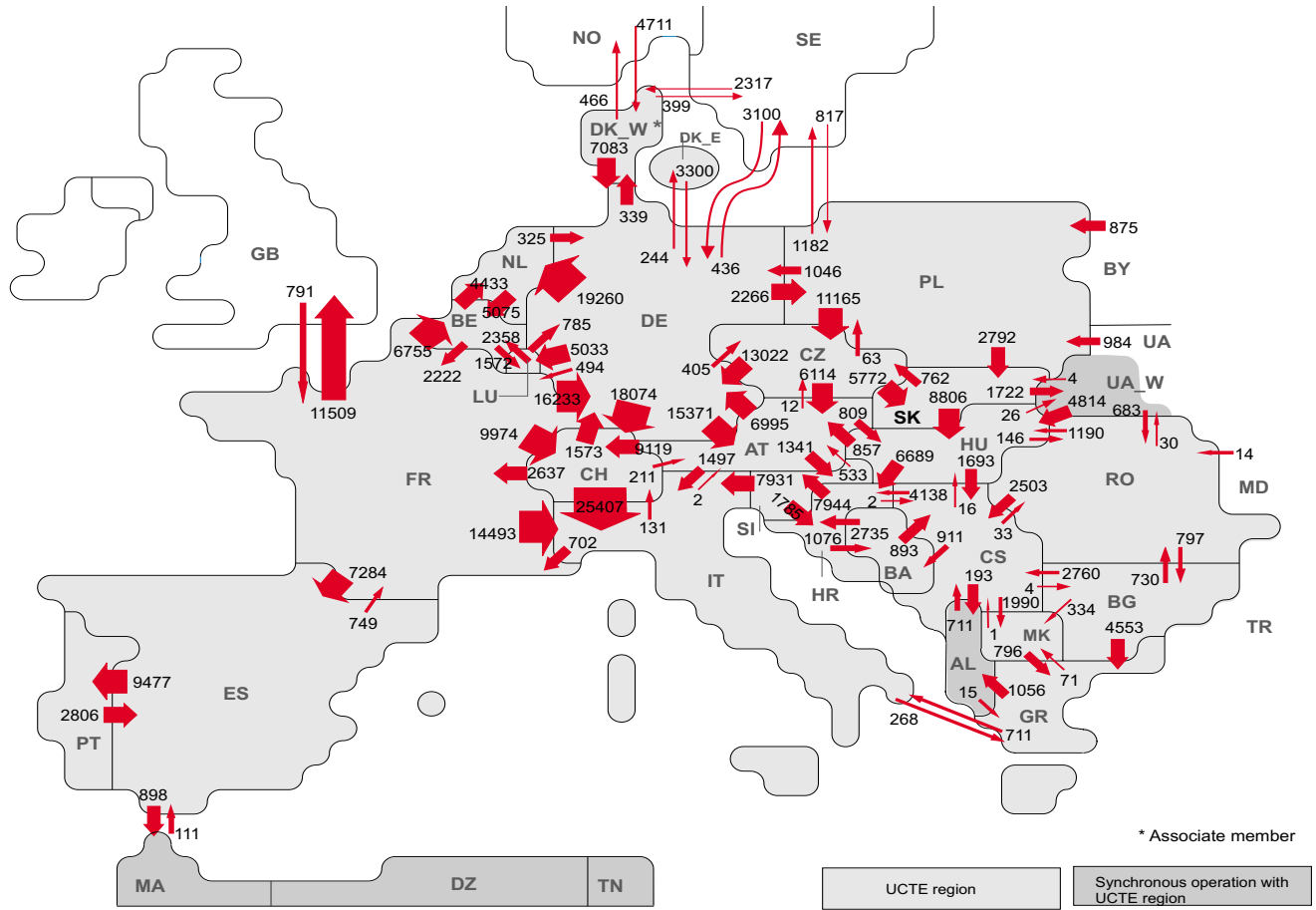
⁹ Average value of this hour.



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

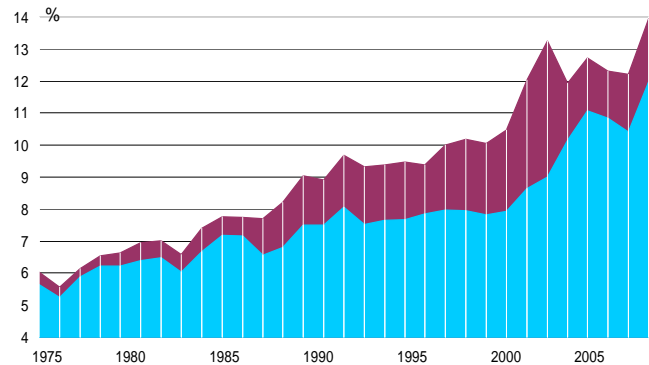
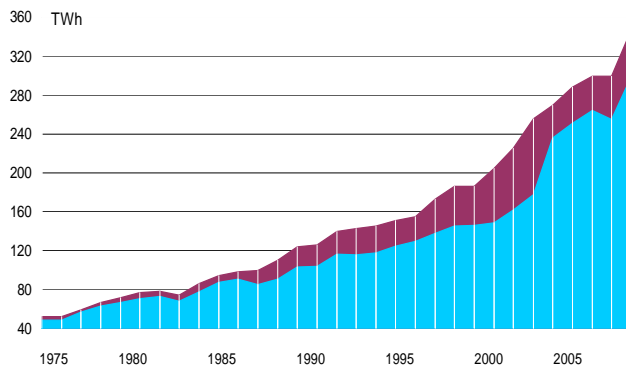
Month	GW	Month	GW	Month	GW	Month	GW	Month	GW	Month	GW
01/1982	187,3	01/1986	206,1	01/1990	233,5	01/1994	254,4	01/1998	313,9	01/2002	336,2
02/1982	190,4	02/1986	215,1	02/1990	214,3	02/1994	243,5	02/1998	294,4	02/2002	323,8
03/1982	181,7	03/1986	192,7	03/1990	209,7	03/1994	223,9	03/1998	294,1	03/2002	305,0
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
01/1985	224,6	01/1989	232,9	01/1993	233,0	01/1997	306,2	01/2001	332,6	01/2005	362,5
02/1985	207,5	02/1989	228,7	02/1993	242,9	02/1997	291,8	02/2001	317,2	02/2005	361,0
03/1985	196,6	03/1989	218,4	03/1993	223,6	03/1997	279,2	03/2001	310,8	03/2005	329,4
04/1985	182,1	04/1989	215,7	04/1993	210,4	04/1997	279,8	04/2001	308,5	04/2005	323,0
05/1985	175,4	05/1989	203,3	05/1993	205,3	05/1997	266,4	05/2001	290,0	05/2005	317,9
06/1985	177,2	06/1989	205,8	06/1993	199,8	06/1997	267,0	06/2001	296,3	06/2005	320,1
07/1985	172,3	07/1989	197,0	07/1993	203,0	07/1997	263,1	07/2001	291,5	07/2005	323,5
08/1985	157,9	08/1989	179,2	08/1993	190,7	08/1997	243,6	08/2001	242,8	08/2005	290,3
09/1985	180,2	09/1989	203,3	09/1993	213,2	09/1997	266,3	09/2001	296,6	09/2005	322,6
10/1985	184,2	10/1989	207,4	10/1993	224,1	10/1997	283,6	10/2001	300,3	10/2005	333,5
11/1985	209,8	11/1989	225,3	11/1993	228,4	11/1997	293,9	11/2001	329,5	11/2005	343,3
12/1985	205,2	12/1989	223,3	12/1993	245,6	12/1997	316,0	12/2001	343,4	12/2005	375,9

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.



Exporting countries	Importing countries																			Sum export							
	AT	BA	BE	BG	CH	CS	CZ	DE	ES	FR	GR	HR	HU	IT	LU	MK	NL	PL	PT		RO	SI	SK	DK_W	UA_W	Other	
AT	-	-	-	-	9119	-	12	6995	-	-	-	-	809	1497	-	-	-	-	-	-	1341	-	-	-	-	-	19773
BA	-	-	-	-	-	893	-	-	-	-	-	2735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3628
BE	-	-	-	-	-	-	-	-	-	2222	-	-	-	-	1367	-	4433	-	-	-	-	-	-	-	-	-	8022
BG	-	-	-	-	-	2760	-	-	-	-	4553	-	-	-	-	334	-	-	-	730	-	-	-	-	-	0	8377
CH	211	-	-	-	-	-	-	1573	-	2637	-	-	25407	-	-	-	-	-	-	-	-	-	-	-	-	-	29828
CS	-	911	-	4	-	-	-	-	-	-	-	4138	16	-	1990	-	-	-	-	33	-	-	-	-	-	193	7285
CZ	6114	-	-	-	-	-	-	-	13022	-	-	-	-	-	-	-	-	63	-	-	5772	-	-	-	-	-	24971
DE	15371	-	-	-	18074	-	405	-	494	-	-	-	5033	-	19260	2266	-	-	-	-	-	339	-	-	680	61922	
ES	-	-	-	-	-	-	-	-	749	-	-	-	-	-	-	-	-	-	9477	-	-	-	-	-	-	898	11124
FR	-	-	6755	-	9974	-	-	16233	7284	-	-	-	14493	-	-	-	-	-	-	-	-	-	-	-	-	11509	66248
GR	-	-	-	0	-	-	-	-	-	-	-	-	711	-	71	-	-	-	-	-	-	-	-	-	-	1056	1838
HR	-	1340	-	-	-	2	-	-	-	-	-	-	0	-	-	-	-	-	-	-	7944	-	-	-	-	-	9286
HU	857	-	-	-	-	1693	-	-	-	-	-	6689	-	-	-	-	-	-	-	146	0	-	26	-	-	9411	
IT	2	-	-	-	131	-	-	-	702	268	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	1103	
LU	-	-	2358	-	-	-	-	785	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3143	
MK	-	-	-	0	-	1	-	-	-	-	796	-	-	-	-	-	-	-	-	-	-	-	-	-	-	797	
NL	-	-	5075	-	-	-	-	325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5400	
PL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1182	16185
PT	-	-	-	-	-	-	-	-	2806	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2806
RO	-	-	-	797	-	2503	-	-	-	-	-	-	1190	-	-	-	-	-	-	-	-	-	-	30	0	4520	
SI	533	-	-	-	-	-	-	-	-	-	-	1076	7931	-	-	-	-	-	-	-	-	-	-	-	-	9540	
SK	-	-	-	-	-	-	762	-	-	-	-	-	8806	-	-	-	-	0	-	-	-	-	-	-	1722	11290	
DK_W	-	-	-	-	-	-	-	-	-	7083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	865	7948
UA_W	-	-	-	-	-	-	-	-	-	-	-	4814	-	-	-	-	-	-	-	683	4	-	-	-	-	5501	
Other	-	-	-	0	-	711	-	6400	111	791	15	-	-	-	-	-	-	2676	-	14	-	-	-	7028	-	17746	
Sum imp	23088	2251	14188	801	37298	8563	12344	53462	10201	7595	5632	14638	15635	50039	6400	2395	23693	5005	9477	1606	9285	8568	7367	1778	16383	347692	

Sum of physical energy flows between UCTE countries = 298862 GWh Total physical energy flows = 347692 GWh



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	%	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	10,5							33,7	1,8			269,2	12,4		
2002	250,9	11,1							36,9	1,6			287,8	12,7		
2003	⁴ 263,8	10,8							35,5	1,5			299,3	12,3		
2004	255,2	10,4							44,0	1,8			299,2	12,2		
2005	298,9	12,0							48,8	2,0			347,7	13,9		

¹ Import + export³ From year 2001 on sum of exchanges including CZ, HU, PL SK² As of September 1995 total German values⁴ From year 2003 on sum of exchanges including RO and BG

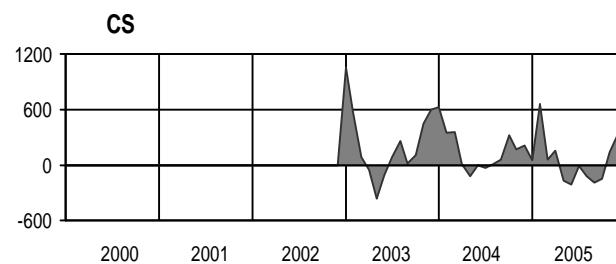
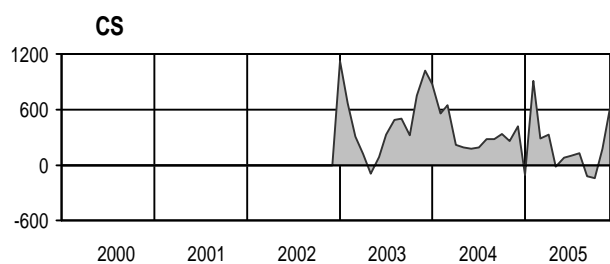
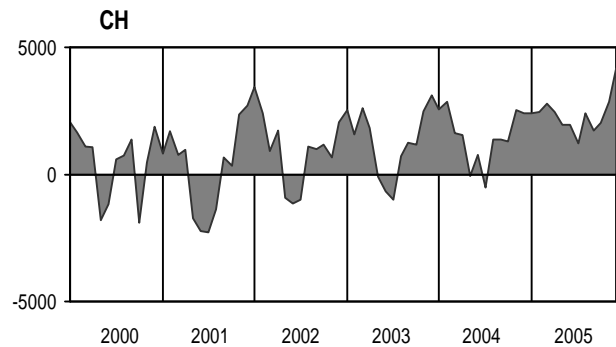
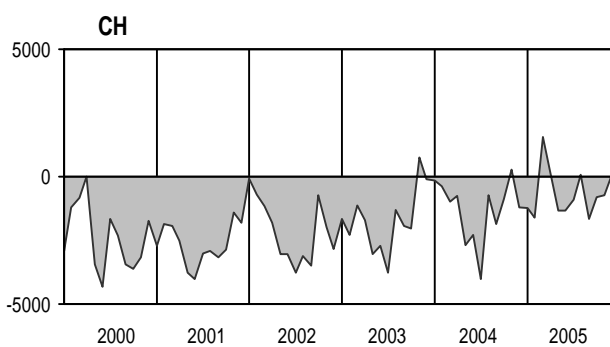
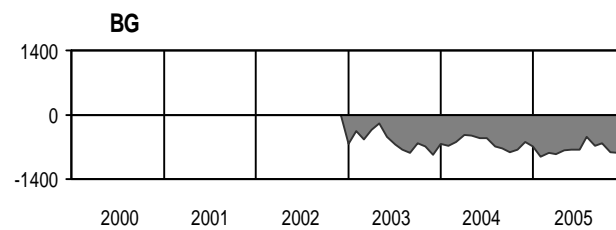
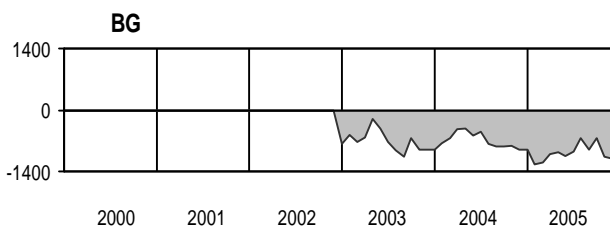
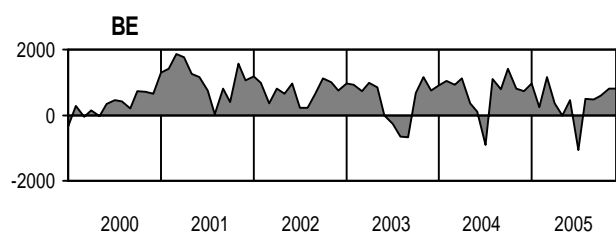
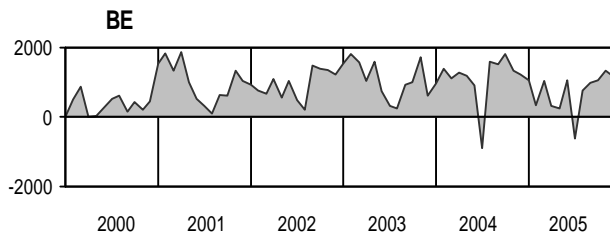
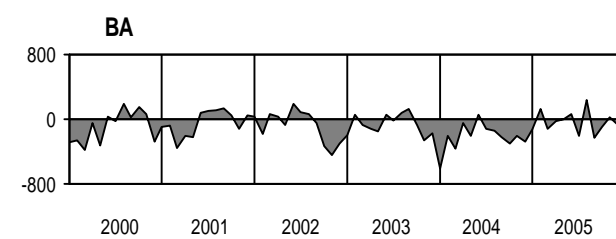
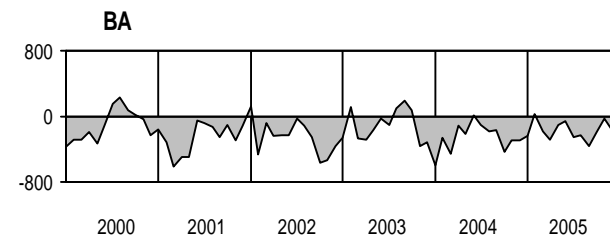
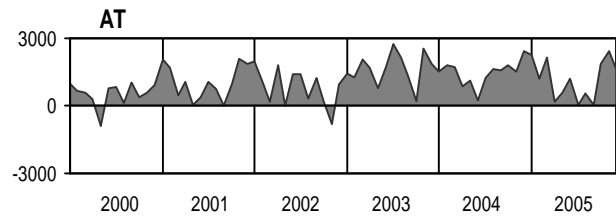
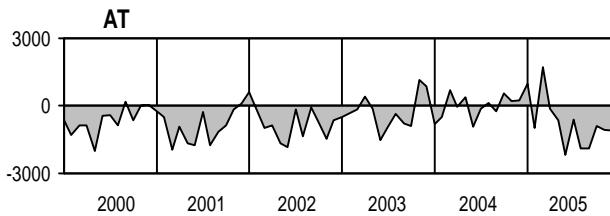
Control area	Export Programs	Import Programs	Export Programs at 03:00	Import Programs at 03:00	Export Programs at 11:00	Import Programs at 11:00
AT	8354350	9527815	11914	10054	11190	16381
BA	2241230	750558	3222	2033	3781	1538
BE	6368482	11548820	9153	13381	10843	18150
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	26396887	56201507	25923	53883	44130	36991
CS	5417718	6759671	6761	7787	8168	10357
CZ	21936293	8664952	28897	11213	32002	13927
DE	46552492	30470933	60995	32106	53746	54585
ES	9449148	8087545	16121	10476	13529	12117
FR	90872607	32283526	119178	41955	116969	48717
GR	857948	4643945	1033	6397	1418	6764
HR	1808397	6995402	2389	9452	2099	8961
HU	5577087	11800596	9810	13360	6495	19876
IT	1605920	47727184	2384	53763	1524	73743
MK	175574	1785844	1331	2573	510	2942
NL	4876415	23497675	7773	27460	2811	35291
PL	13100029	2244366	16033	3292	21720	3161
PT	701300	7528397	5	13569	3383	11357
RO	5547512	2798638	5283	4246	9510	3652
SI	7418147	7238350	9607	9698	10340	9142
SK	7317503	4047484	9897	3764	10242	8129
DK_W	7155001	7265421	7829	8257	12452	12497
UA_W	3723826	240	4693	10	5812	10

- 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.

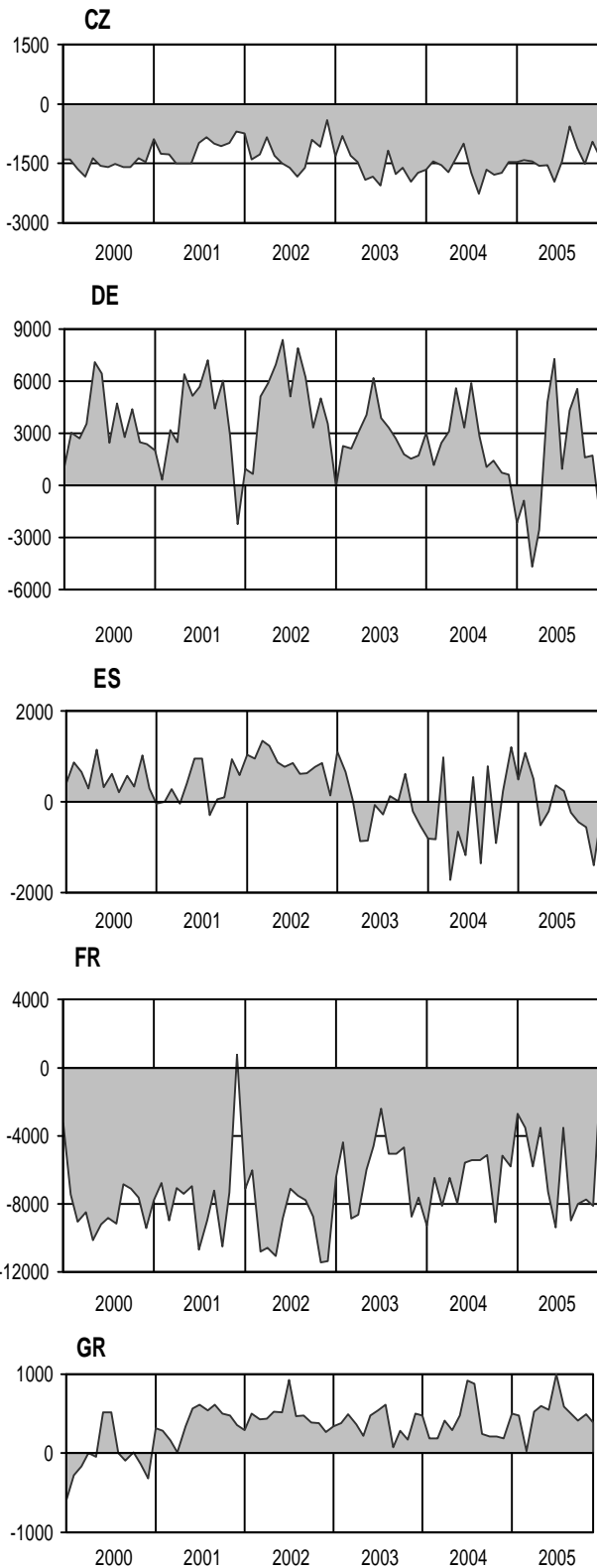
11:00

Day load in MW ¹

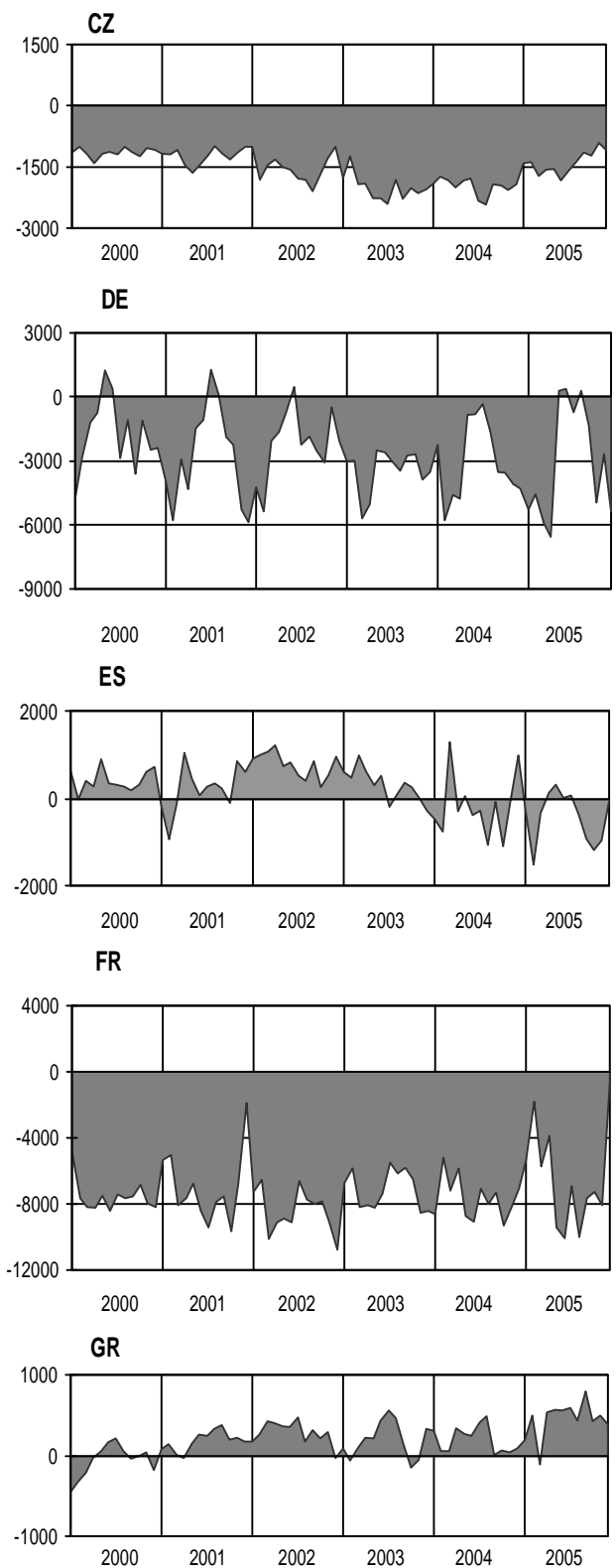
03:00

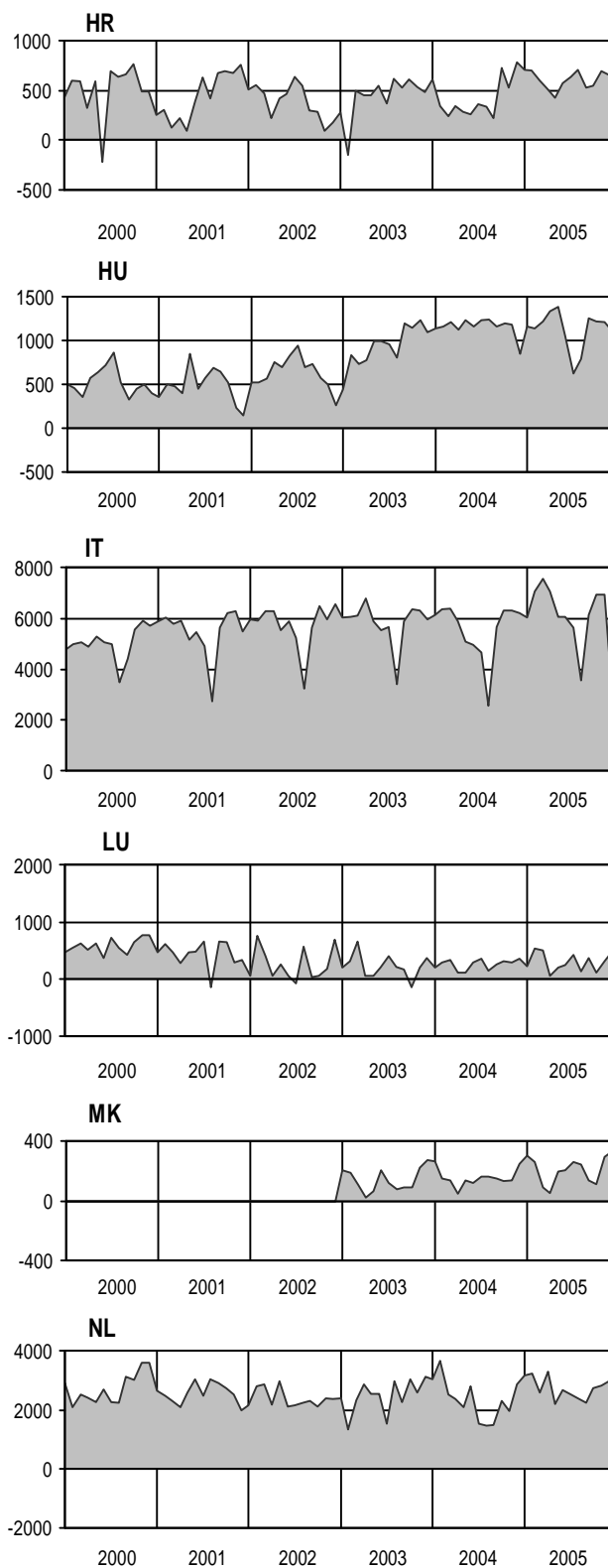
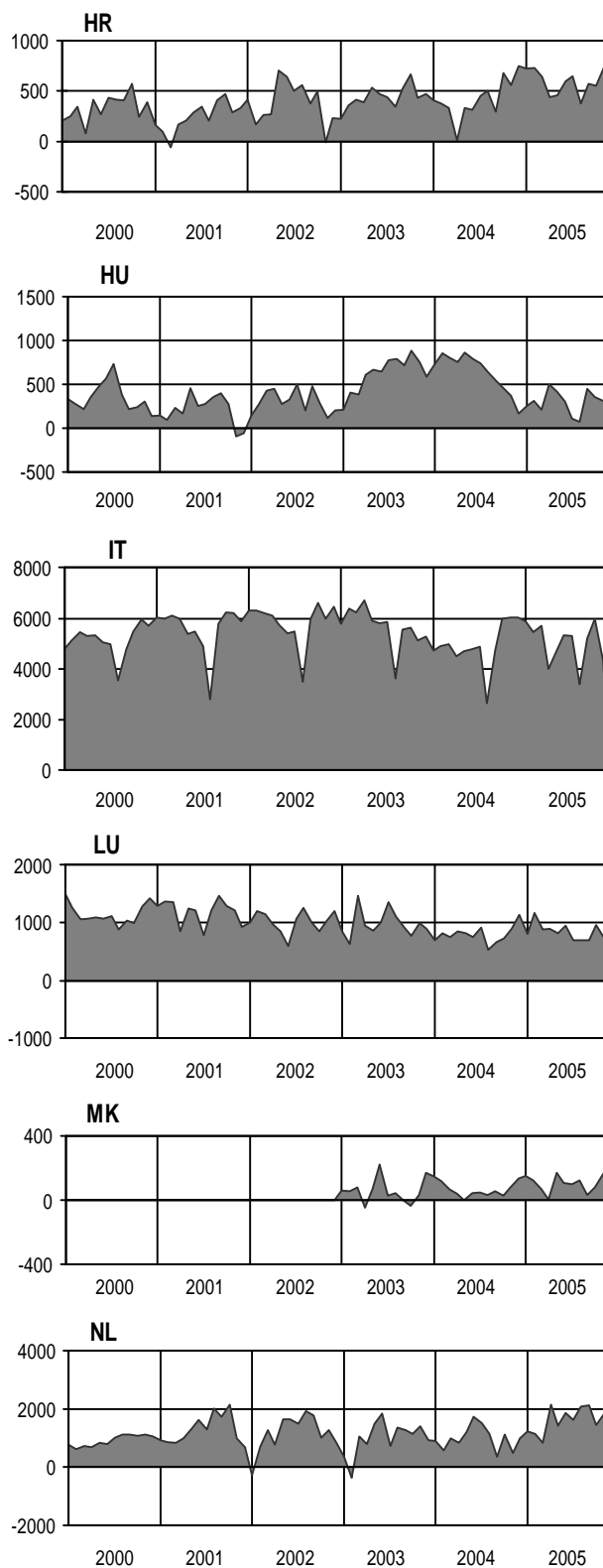
Night load in MW ¹¹ On the 3rd Wednesday of each month

11:00

Day load in MW ¹

03:00

Night load in MW ¹¹ On the 3rd Wednesday of each month

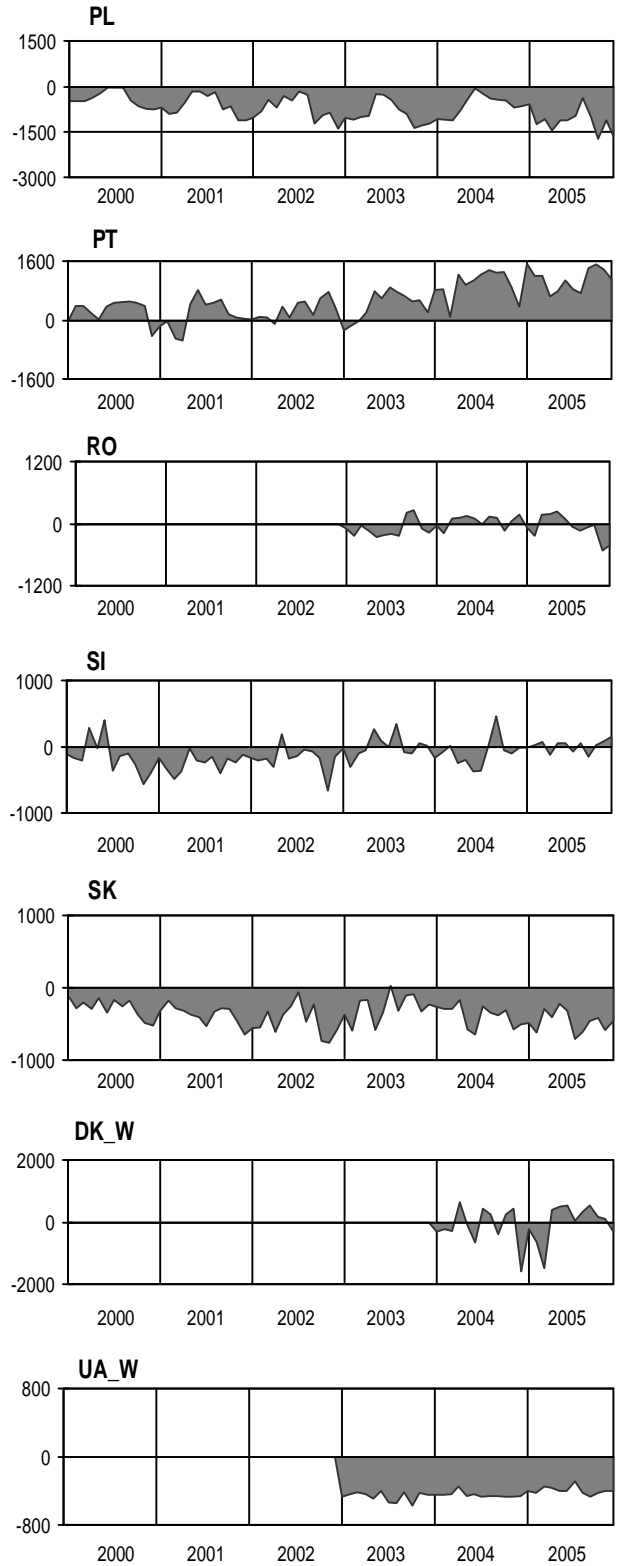
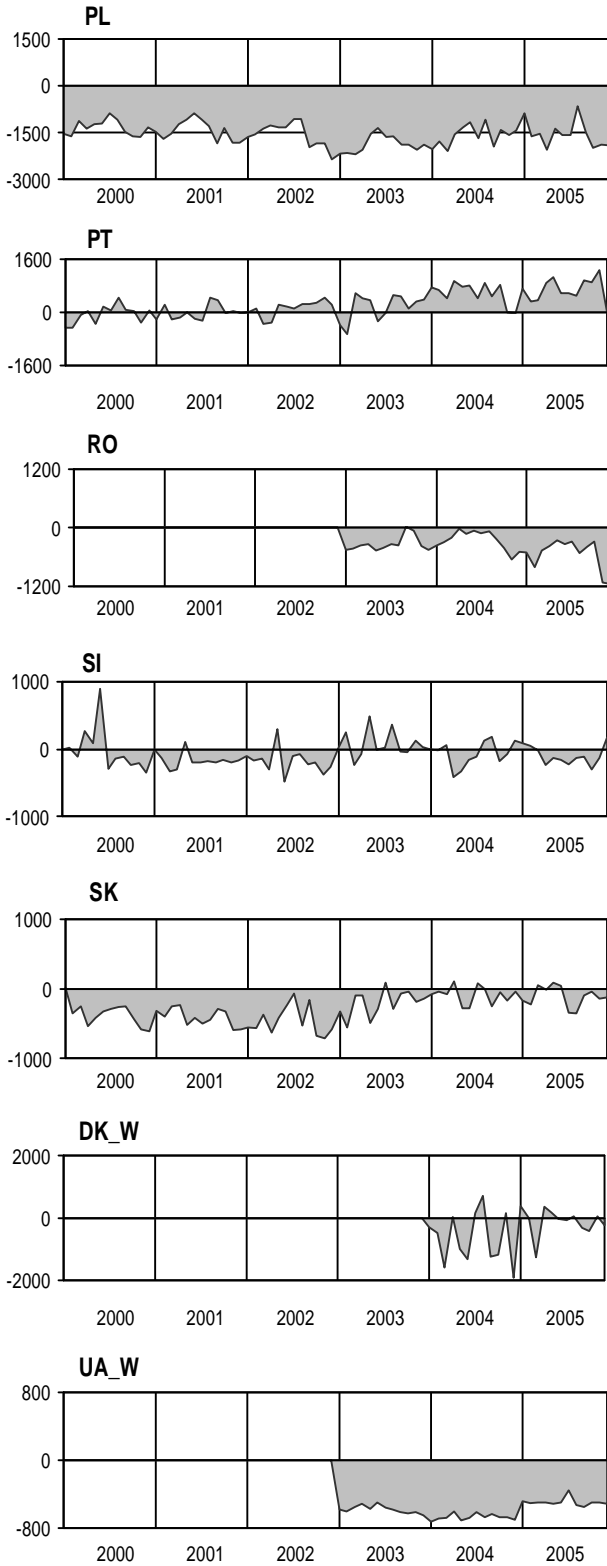
11:00 Day load in MW ¹03:00 Night load in MW ¹¹ On the 3rd Wednesday of each month

11:00

Day load in MW ¹

03:00

Night load in MW ¹



¹ On the 3rd Wednesday of each month

Development of the balance of the simultaneous power flows across the frontiers of the UCTE countries ¹
MW

Date	Night	Day	Date	Night	Day
I.2000	17024	11724	I.2003 ³	28921	24641
II.2000	17664	14630	II.2003	24316	22212
III.2000	17267	15400	III.2003	29221	26150
IV.2000	16786	15903	IV.2003	28527	26909
V.2000	12996	18659	V.2003	25320	24900
VI.2000	14341	18620	VI.2003	25915	25054
VII.2000	16139	15145	VII.2003	24493	20980
VIII.2000	13993	16018	VIII.2003	24256	22918
IX.2000	15786	14995	IX.2003	26076	24320
X.2000	13951	16251	X.2003	23730	23139
XI.2000	17709	16831	XI.2003	29334	29503
XII.2000	18891	17040	XII.2003	28642	28666
I.2001	19241	15530	I.2004	26336	26954
II.2001	20576	16165	II.2004	27452	27601
III.2001	19726	17651	III.2004	24520	25689
IV.2001	19632	15559	IV.2004	23264	23332
V.2001	15655	17735	V.2004	21353	24641
VI.2001 ²	21017	24715	VI.2004	21719	21271
VII.2001	19222	25324	VII.2004	21893	23480
VIII.2001	17476	22151	VIII.2004	18957	18405
IX.2001	24340	23573	IX.2004	26624	24670
X.2001	24983	25279	X.2004	28075	28255
XI.2001	28571	24405	XI.2004	29424	26969
XII.2001	27423	21122	XII.2004	34232	27561
I.2002	28647	23600	I.2005	30606	27403
II.2002	28364	24882	II.2005	31334	30189
III.2002	23176	25924	III.2005	31233	33611
IV.2002	25500	24720	IV.2005	28305	31143
V.2002	22660	26484	V.2005	25721	24831
VI.2002	21746	24905	VI.2005	29741	28372
VII.2002	23635	24549	VII.2005	25259	24783
VIII.2002	21967	23121	VIII.2005	24871	23367
IX.2002	26098	22894	IX.2005	26750	24784
X.2002	24076	24634	X.2005	29481	26373
XI.2002	22212	25754	XI.2005	28963	28871
XII.2002	27435	25747	XII.2005	24896	22593

¹ Day load at 11.00 a.m. and night load at 3.00 a.m. on the 3rd Wednesday of each month. The power flows crossing common borders with neighbouring third countries are excluded.

² As of June 2001 on the power flows include CENTREL countries CZ, HU, PL and SK.

³ From year 2003 on the power flows include RO and BG.

T7

Maximum output capacity on 31 December 2005, 2004 and 2000 in MW

Country	Thermal nuclear			Thermal conventional			Hydropower			Other sources			Total			Representativity ¹		
	2005	2004	2000	2005	2004	2000	2005	2004	2000	2005	2004	2000	2005	2004	2000	2005	2004	2000
AT	-	-	-	5900	5900	5200	11700	11700	10985	670	670	35	18270	18270	16220	100	100	90
BA	-	-	-	1957	1957	n.a.	2064	2064	n.a.	-	-	n.a.	4021	4021	n.a.	99	99	n.a.
BE	5802	5802	5738	8099	7996	8322	1417	1416	1406	750	395	183	16068	15609	15649	100	99	99
BG	2880	2880	n.a.	5410	6420	n.a.	2700	2930	n.a.	1	-	n.a.	10991	1223	n.a.	100	100	n.a.
CH	3220	3220	3200	335	320	290	13355	13315	13240	520	540	500	17430	17395	17230	100	100	100
CS	-	-	n.a.	6400	6400	n.a.	3497	3497	n.a.	-	-	n.a.	9897	9897	n.a.	100	96	n.a.
CZ	3537	3537	1637	10558	10591	10562	2165	2138	2076	43	20	1	16303	16286	14276	100	100	100
DE	20200	20500	20984	70400	68100	71722	9100	9000	8417	19600	17300	2582	119300	114900	103705	90	90	91
ES	7600	7600	7478	36673	33051	21660	18675	18523	17656	10673	9393	2229	73621	68667	49023	100	100	94
FR	63260	63363	63183	25331	26908	23085	25398	25394	24278	1554	1056	222	115543	116721	110768	100	100	97
GR ²	-	-	-	7601	7212	6301	3108	3103	3092	595	380	-	11304	10695	9393	100	100	95
HR	-	-	-	1691	1662	1428	2079	2079	2076	5	5	-	3775	3746	3504	100	100	100
HU	1755	1755	1758	5202	5685	5608	46	46	46	1077	790	311	8080	8276	7723	100	100	100
IT	-	-	-	62164	58990	54187	20993	20744	20480	2313	1777	1208	85470	81511	75875	100	100	100
LU	-	-	-	481	477	75	1128	1128	1128	67	60	15	1676	1665	1218	100	96	99
MK	-	-	n.a.	1010	907	n.a.	517	503	n.a.	-	-	n.a.	1527	1410	n.a.	100	100	n.a.
NL	449	449	449	19457	18770	17107	37	37	35	2034	18961	1053	21977	21152	18644	100	100	90
PL	-	-	-	29724	29350	31222	2245	2193	2140	108	145	-	32077	31688	33362	100	100	100
PT	-	-	-	6561	6194	4855	4915	4717	4386	1353	835	372	12829	11746	9613	96	94	91
RO	655	655	n.a.	9173	10081	n.a.	5819	6007	n.a.	-	-	n.a.	15647	16743	n.a.	100	100	n.a.
SI	670	670	670	1262	1262	1241	872	862	778	-	-	-	2804	2794	2689	100	100	100
SK	2640	2640	2200	2270	2290	2291	2429	2429	2425	699	699	660	8038	8058	7576	100	100	100
UCTE	112668	113071	107297	317659	310523	271909	134259	133825	118537	42062	35993	9371	606648	593412	507114			
DK_W	-	-	n.a.	5154	5098	n.a.	10	11	n.a.	2392	2379	n.a.	7556	7488	n.a.	100	100	n.a.
UA_W	-	-	n.a.	2347	2347	n.a.	27	27	n.a.	-	-	n.a.	2374	2374	n.a.	100	100	n.a.

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

UCTE System Adequacy Retrospect 2005, Power Data

Net values at the reference time 11:00 a.m. on the 3rd Wednesday of each month (Data published on 1 August 2006) Values in GW

T8a

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
National generating capacity												
1. Hydro power stations	133.7	134.0	134.3	134.4	134.5	134.6	134.4	134.3	134.6	134.7	134.7	134.7
2. Nuclear power stations	113.1	113.1	113.1	113.1	112.7	112.7	112.7	112.7	112.7	112.8	112.8	112.7
3. Conventional thermal power stations	314.7	315.6	315.4	315.9	316.2	316.8	316.8	318.3	319.7	320.6	321.5	322.6
4. Renewable energy sources	34.6	35.1	35.5	36.1	36.6	36.8	37.4	38.1	38.5	39.1	39.4	39.9
5. Not clearly identifiable energy sources	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.4
6. National generating capacity (6 = 1+2+3+4+5)	597.5	599.3	599.8	601.0	601.4	602.4	602.7	604.6	606.8	608.5	609.7	611.3
7. Non-usable capacity	106.7	100.7	114.3	113.6	112.4	120.8	120.9	126.0	119.1	118.9	112.3	110.0
8. Overhauls (thermal power stations)	12.2	17.2	29.8	48.3	56.2	51.7	42.9	44.6	47.0	33.7	25.8	11.8
9. Outages (thermal power stations)	11.9	16.9	15.1	14.3	19.3	18.6	24.5	23.4	19.3	18.7	18.0	22.3
10. System services reserve	32.0	29.9	32.6	30.0	28.8	25.7	29.5	29.4	27.7	28.3	27.6	27.0
11. Reliably available capacity (11 = 6-(7+8+9+10))	434.7	434.7	408.1	394.7	384.8	385.7	384.8	381.1	393.7	408.9	426.0	440.3
12. Load	361.1	359.9	328.8	322.6	310.1	313.8	315.5	276.6	309.4	324.1	342.6	369.5
13. Margin against monthly peak load	33.9	34.5	51.7	22.1	24.0	26.7	20.0	47.0	23.2	24.7	47.8	28.9
14. Remaining capacity without exchanges (14 = 11-12)	73.1	74.7	79.2	72.1	74.7	71.9	69.3	104.5	84.3	84.8	83.4	70.8
Physical exchanges												
15. Import	39.9	44.7	43.9	41.2	34.8	41.0	40.2	34.3	37.9	39.9	42.1	39.5
16. Export	33.5	34.4	38.8	35.5	28.9	32.5	32.4	31.1	30.5	34.8	35.6	31.3
17. Physical exchange balance (17=15-16)	6.4	10.3	5.2	5.8	5.9	8.5	7.8	3.1	7.3	5.1	6.5	8.2
18. Remaining capacity with exchange (18=14+17)	79.5	85.0	84.4	77.9	80.6	80.4	77.1	107.6	91.6	89.9	90.0	78.9

T8b

UCTE System Adequacy Retrospect 2005, Energy Data (Data published on 1 August 2006)

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	34.2	6.0	1.6	4.7	32.7	13.9	3.0	27.7	19.4	56.0	5.6	6.4	0.2	47.9	0.8	1.5	0.1	3.6	4.9	19.9	3.0	4.6	291.9	0.1
2. Nuclear power stations	0.0	0.0	45.3	18.7	22.0	0.0	23.3	154.6	57.5	430.0	0.0	0.0	13.0	0.0	0.0	0.0	3.8	0.0	0.0	5.1	5.6	16.3	795.2	0.0
3. Conventional thermal power stations	18.4	6.6	33.6	20.9	2.2	27.5	49.9	358.9	158.1	58.9	43.3	4.6	17.4	240.8	3.1	5.0	88.4	140.2	32.9	29.8	4.6	5.5	1358.5	8.0
4. Renewable energy sources	0.0	0.0	2.0	0.0	0.9	0.0	0.1	40.1	28.0	4.3	1.1	0.0	1.4	6.9	0.1	0.0	3.9	0.2	3.9	0.0	0.0	0.0	92.9	0.0
5. Not clearly identified energy sources	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.5	0.0
6.Total (6 = 1+2+3+4+5)	57.8	12.6	82.5	44.3	57.9	41.4	76.2	581.3	263.1	549.2	49.9	11.0	32.6	289.6	4.1	6.5	96.2	144.0	41.7	54.8	13.3	29.1	2547.0	8.1
7. Exchanges (7 = 7a - 7b)	2.7	-1.4	6.2	-7.6	7.8	7.2	-12.6	-8.5	-1.4	-60.2	3.8	5.2	6.2	49.0	3.3	1.7	18.3	-11.2	6.8	-2.9	-0.2	-2.7	-3.7	5.5
7a.Import	20.3	1.1	14.2	0.0	37.6	8.5	12.4	53.4	6.5	8.1	5.6	8.8	15.6	50.1	6.4	1.7	23.7	5.0	9.6	1.6	9.3	8.6	309.8	1.8
7b.Export	17.6	2.5	8.0	7.6	29.8	1.3	25.0	61.9	7.9	68.3	1.8	3.6	9.4	1.1	3.2	0.0	5.4	16.2	2.8	4.5	9.5	11.3	304.3	5.5
8. Pumped storage	3.3	0.0	1.8	0.5	2.6	1.0	0.9	9.2	15.8	6.6	0.8	0.1	0.0	9.3	1.1	0.0	0.0	2.2	0.6	0.0	0.0	0.1	56.0	0.0
9. Consumption (9 = 6+7-8)	57.1	11.1	86.8	36.6	61.2	43.6	62.7	563.5	245.7	482.4	52.9	16.7	38.8	329.4	6.2	8.1	114.6	130.6	48.0	51.9	12.8	26.3	2491.5	4.4

LEGEND

750 kV
380 kV
220 kV
150/110 kV

LAUFENBURG Substation
15 Frontier point
Direct current line
UCTE synchronous zone

