April 2008

Monthly provisional values

union for the co-ordination of transmission of electricity

UCTE

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General remarks and abbreviations used in the tables

- All values of production and consumption in chapter 1, 3&4, 5&6 and 12 are calculated to represent 100% of the national values.

- DK_W Denmark West represents the Western part of Denmark synchronously interconnected with UCTE (Jutland and Funen).

- UA_W Ukraine West represents the so-called Burshtyn Island synchronously interconnected with UCTE.

- CET Central European Time

- The Bulgarian load values on the 3rd Wednesday are gross values

1 Electricity supply situation of the countries

April 2008

Coun-tries	Net production in GWh: Therm. nuclear	Therm conv.	Hydro prod	Other renew.	Of which wind	Not iden-tify	Total	Exchange balance in GWh	Pump in GWh	Consumption in GWh: monthly	var. [%]	last 12 months	var. [%]
AT	0	1499	3129	0	0	701	**5329**	469	195	5603	7,9	68465	3,4
BA	0	486	546	0	0	0	**1032**	-121	0	911	7,1	11468	5,2
BE[2]	2975	2656	150	275	39	0	**6056** [1]	1596	133	7519	6,5	91053	2,0
BG	1364	1561	351	0	0	0	**3276**	-585	54	2637	2,9	32970	-2,3
CH	2320	176	2301	96	2	0	**4893** [1]	683	203	5373	11,5	64175	3,3
CZ	2000	4527	274	34	16	0	**6835** [1]	-1299	42	5494	8,3	65862	4,5
DE	11637	31656	2134	4160	2026	0	**49587** [1]	-2412	536	46639	4,9	558407	0,4
DK_W	0	1445	3	338	215	0	**1786** [1]	-36	0	1750	3,8	21865	1,2
ES	4019	12861	2851	3820	3364	0	**23551**	-1292	216	22043	7,0	271261	3,3
FR	34294	3900	6881	722	412	0	**45797** [1]	-3763	532	41502	15,9	492665	5,8
GR	0	3427	179	163	143	0	**3769** [1]	436	100	4105	2,2	56170	4,0
HR	0	379	566	5	4	0	**950** [1]	461	14	1397	9,1	17287	4,7
HU	975	1906	0	0	0	0	**2881** [1]	467	0	3348	4,4	41782	3,2
IT	0	19815	2983	1071	631	0	**23869**	3560	575	26854	3,0	341416	1,2
LU	0	181	82	10	3	0	**273**	417	95	595	8,0	6888	3,3
ME	0	35	175	0	0	0	**210**	138	0	348	0,0	4706	n.a.
MK	0	417	84	0	0	0	**501**	192	0	693	4,2	8747	6,9
NL	125	7693	0	526	257	0	**8344** [1]	881	0	9225	0,7	116906	0,5
PL[3]	0	11501	269	47	35	0	**11817** [1]	8	47	11778	6,9	144019	5,3
PT	0	1630	955	740	556	0	**3325** [1]	898	38	4185	5,2	52109	2,2
RO	852	2215	1734	0	0	0	**4801** [1]	-383	21	4397	7,8	55393	5,3
RS	0	2061	1149	0	0	0	**3210**	91	67	3234	2,5	39118	n.a.
SI	500	443	273	0	0	0	**1216** [1]	-183	0	1033	-1,0	13356	0,4
SK	966	654	481	25	0	0	**2126** [1]	156	20	2262	4,8	27931	3,5
UCTE	**62027**	**113124**	**27550**	**12032**	**7703**	**701**	**215434** [1]	**379**	**2888**	**212925**	**8,0**	2604019	**4,8**
UA_W	0	617	19	0	0	0	636	-295	0	341	4,6	4362	5,0

[1] Including deliveries from industry

[2] The reported figures are best estimates based on actual measurements and extrapolations

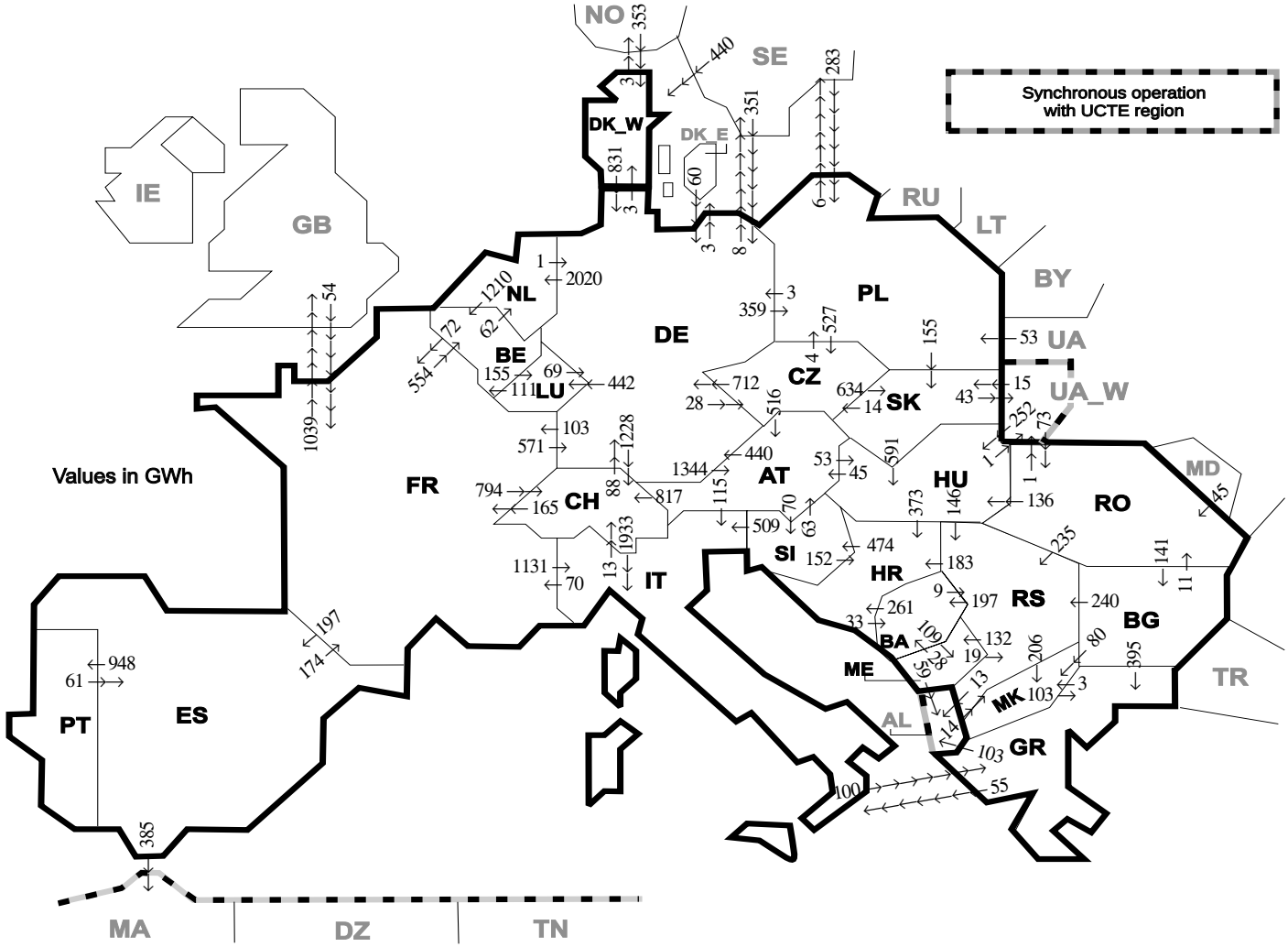
[3] Operational data

All representativities of the national production and consumption values used to calculate values at a representativity of 100% as stated in the table above:

Countries	AT	BA	BE	BG	CH	CZ	DE	DK_W	ES	FR	GR	HR	HU	IT	LU	ME	MK	NL	PL	PT	RO	RS	SI	SK	UA_W
Production																									
Therm.nuclear	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
Thermal conv.	100	100	100	100	100	100	100	100	97	100	100	100	100	100	100	100	100	100	100	92	100	100	100	100	100
Hydro prod	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
Other renew.	100	100	100	100	100	100	100	100	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Not identify	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
Consumption	100	100	100	100	100	100	100	100	98	100	100	100	100	100	100	100	100	100	100	97	100	100	100	100	100

2 Physical energy flows

April 2008

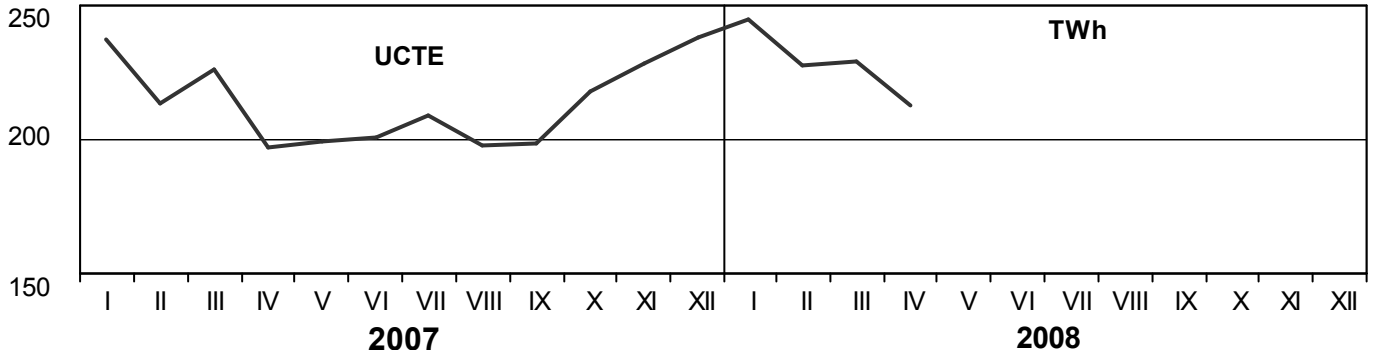


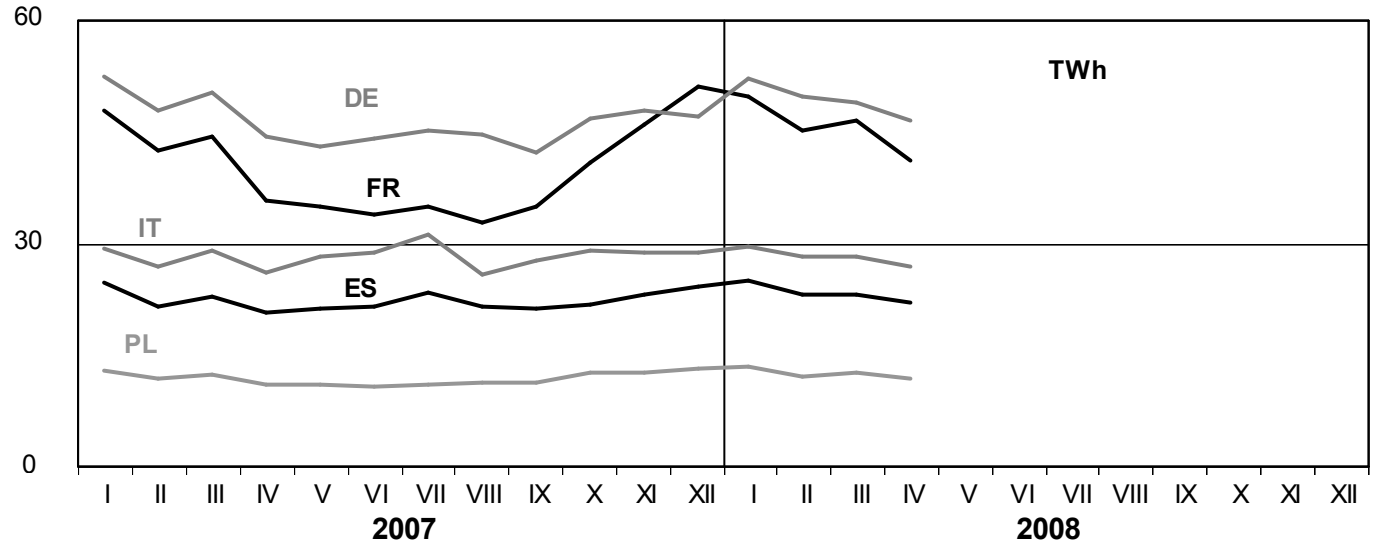
Exporting countries	AT	BA	BE	BG	CH	CZ	DE	DK_W	ES	FR	GR	HR	HU	IT	LU	ME	MK	NL	PL	PT	RO	RS	SI	SK	UA_W	Other III[1]	Sum export
AT	-	-	-	-	817	0	440	-	-	-	-	-	53	115	-	-	-	-	-	-	-	-	70	-	-	-	1495
BA	-	-	-	-	-	-	-	-	-	-	-	261	-	-	-	109	-	-	-	-	-	9	-	-	-	-	379
BE	-	-	-	-	-	-	-	-	-	72	-	-	-	-	155	-	-	62	-	-	-	-	-	-	-	-	289
BG	-	-	-	-	-	-	-	-	-	-	395	-	-	-	-	-	80	-	-	-	11	240	-	-	-	0	726
CH	0	-	-	-	-	-	88	-	-	165	-	-	-	1933	-	-	-	-	-	-	-	-	-	-	-	-	2186
CZ	516	-	-	-	-	-	712	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	634	-	-	1866
DE	1344	-	-	-	1228	28	-	3	-	103	-	-	-	-	442	-	-	2020	359	-	-	-	-	-	-	11	5538
DK_W	-	-	-	-	-	-	831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	834
ES	-	-	-	-	-	-	-	-	-	174	-	-	-	-	-	-	-	-	-	948	-	-	-	-	-	385	1507
FR	-	-	554	-	794	-	571	-	197	-	-	-	-	1131	-	-	-	-	-	-	-	-	-	-	-	1039	4286
GR	-	-	-	0	-	-	-	-	-	-	-	-	-	55	-	-	3	-	-	-	-	-	-	-	-	103	161
HR	-	33	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	0	474	-	-	-	507
HU	45	-	-	-	-	-	-	-	-	-	-	373	-	-	-	-	-	-	-	-	0	146	-	0	1	-	565
IT	0	-	-	-	13	-	-	-	-	70	100	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	183
LU	-	-	111	-	-	-	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180
ME	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	59	106
MK	-	-	-	0	-	-	-	-	-	-	103	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	103
NL	-	-	1210	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1211
PL	-	-	-	-	-	527	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	155	-	6	691
PT	-	-	-	-	-	-	-	-	61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61
RO	-	-	-	141	-	-	-	-	-	-	-	-	136	-	-	-	-	-	-	-	-	235	-	-	1	0	513
RS	-	197	-	0	-	-	-	-	-	-	-	183	0	-	-	132	206	-	-	-	0	-	-	-	-	13	731
SI	63	-	-	-	-	-	-	-	-	-	-	152	-	509	-	-	-	-	-	-	-	-	-	-	-	-	724
SK	-	-	-	-	-	14	-	-	-	-	-	-	591	-	-	-	-	-	0	-	-	-	-	-	43	-	648
UA_W	-	-	-	-	-	-	-	-	-	-	-	-	252	-	-	-	-	-	-	-	73		-	15	-	-	340
Other III[1]	-	-	-	0	-	-	411	793	0	54	0	-	-	-	-	0	-	-	336	-	45	14	-	-	-	-	1653
Sum imp	1968	258	1875	141	2852	569	3126	796	258	638	598	969	1032	3743	597	241	289	2082	699	948	129	663	544	804	45	1619	27483

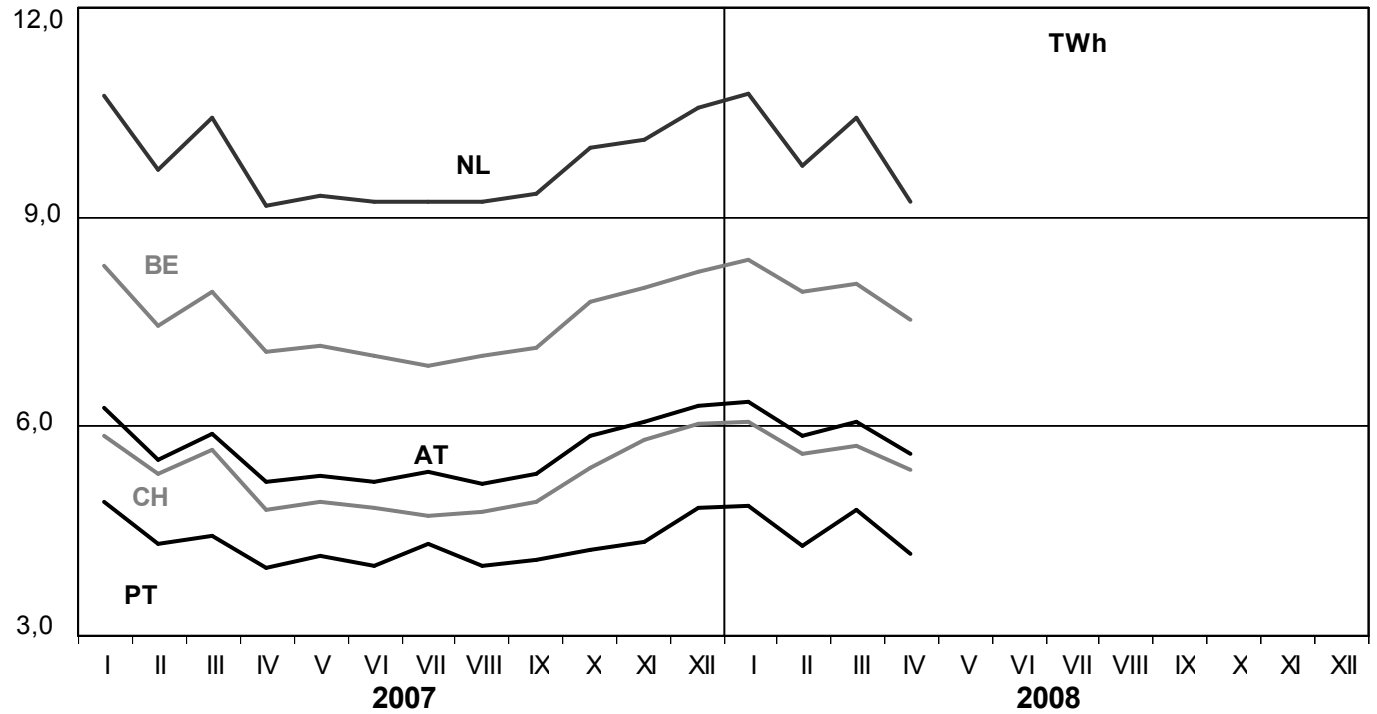
Sum of physical energy flows between UCTE countries = 23826GWh Total physical energy flows = 27483GWh

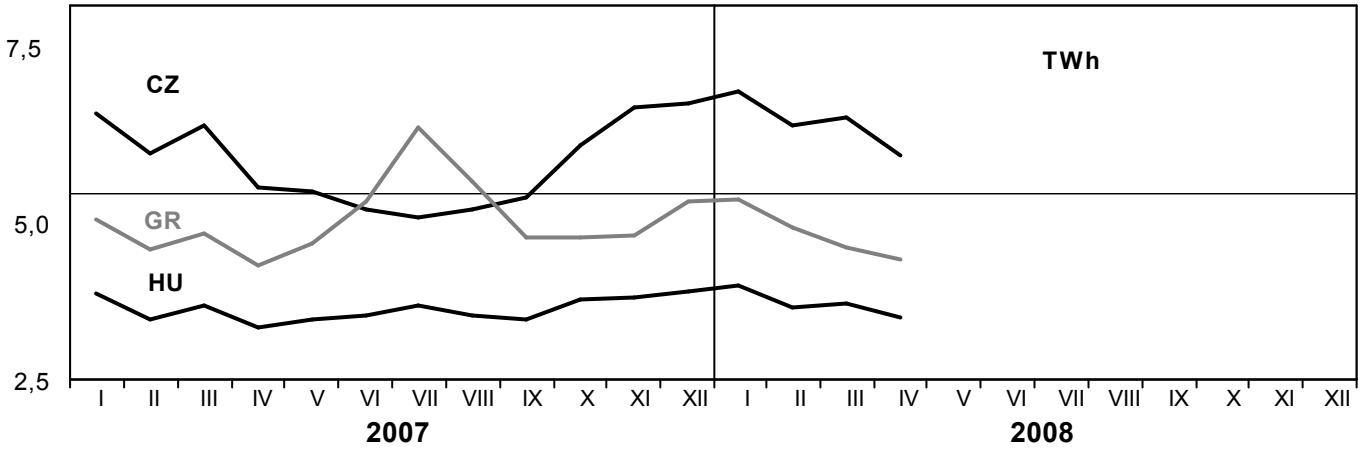
[1] Other III: Albania, Belarus, Denmark East, Great Britain, Morocco, Republic of Moldavia, Norway, Sweden, Republic of Turkey and Ukraina

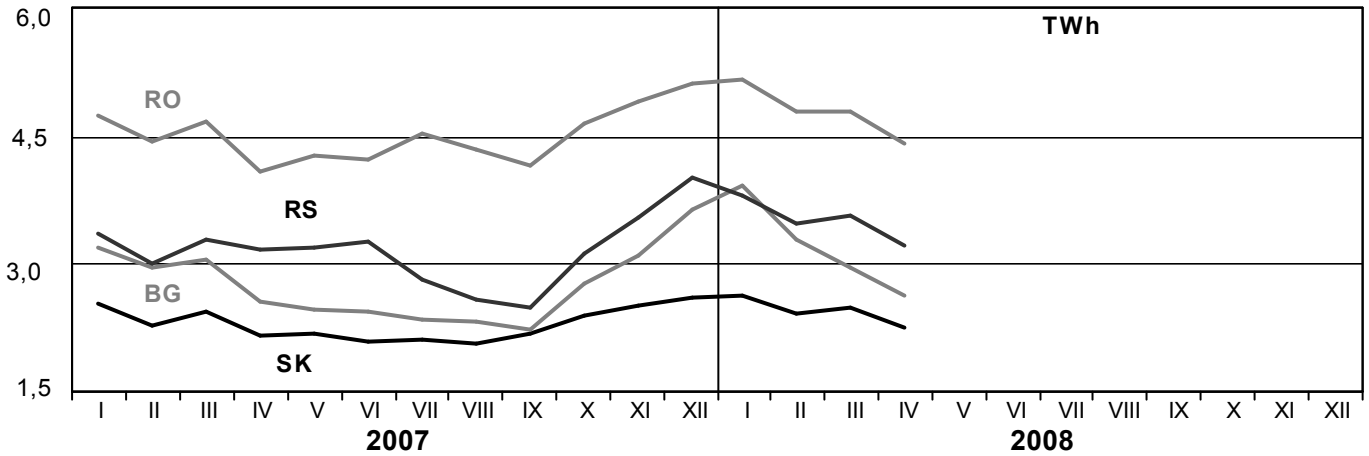
These physical energy flows were measured on the cross-frontier transmission lines (≤ 110 kV) listed in table 9 of the Statistical Yearbook. These values may differ from the official statistics and the exchange balances in chapter 1.

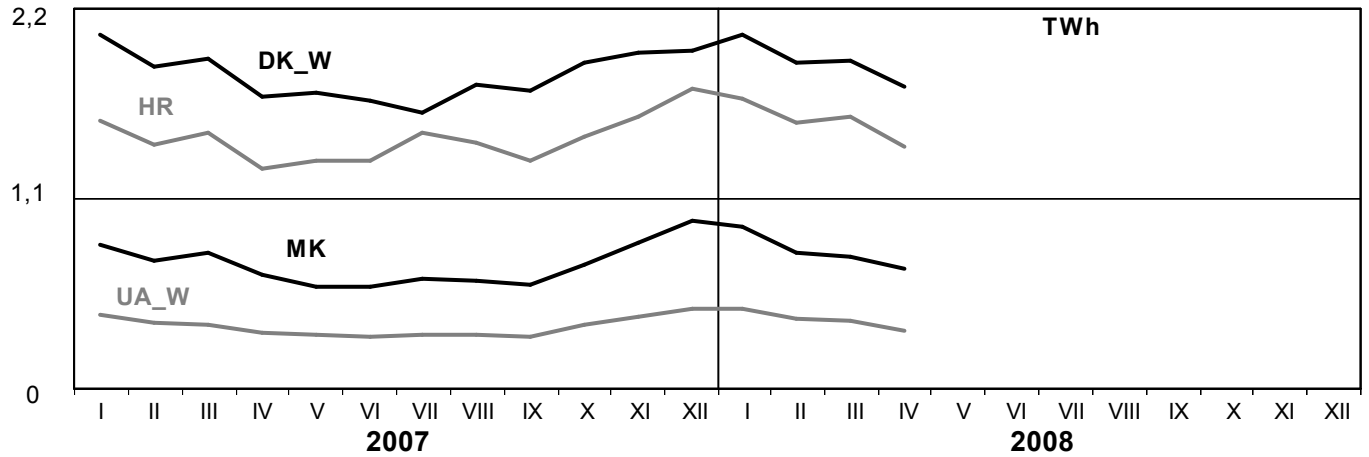

250
200
150
UCTE
TWh
I II III IV V VI VII VIII IX X XI XII I II III IV V VI VII VIII IX X XI XII
2007
2008

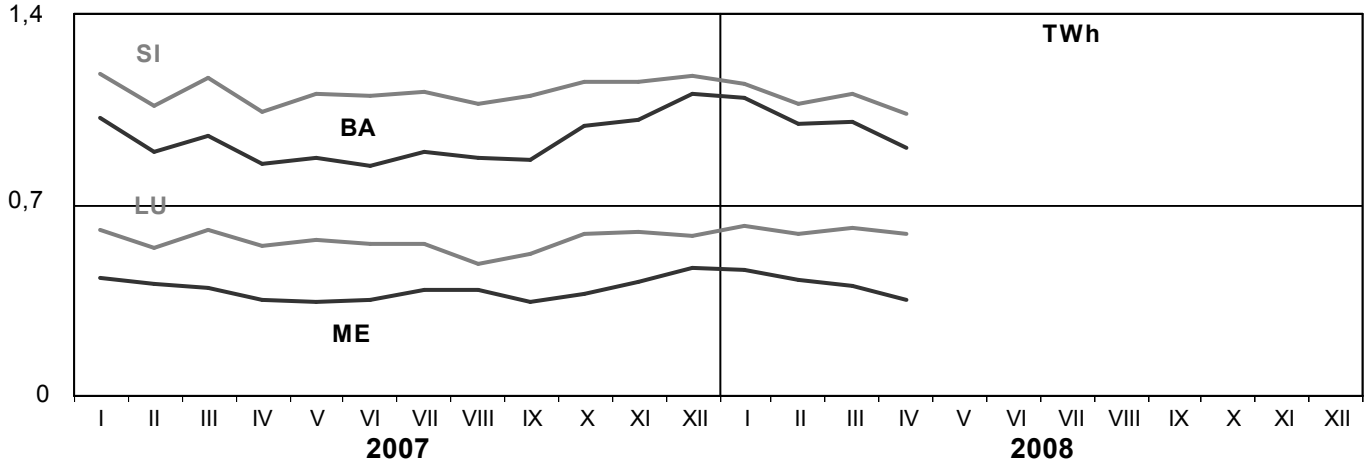

60
30
0
DE
FR
IT
ES
PL
TWh
I II III IV V VI VII VIII IX X XI XII I II III IV V VI VII VIII IX X XI XII
2007
2008

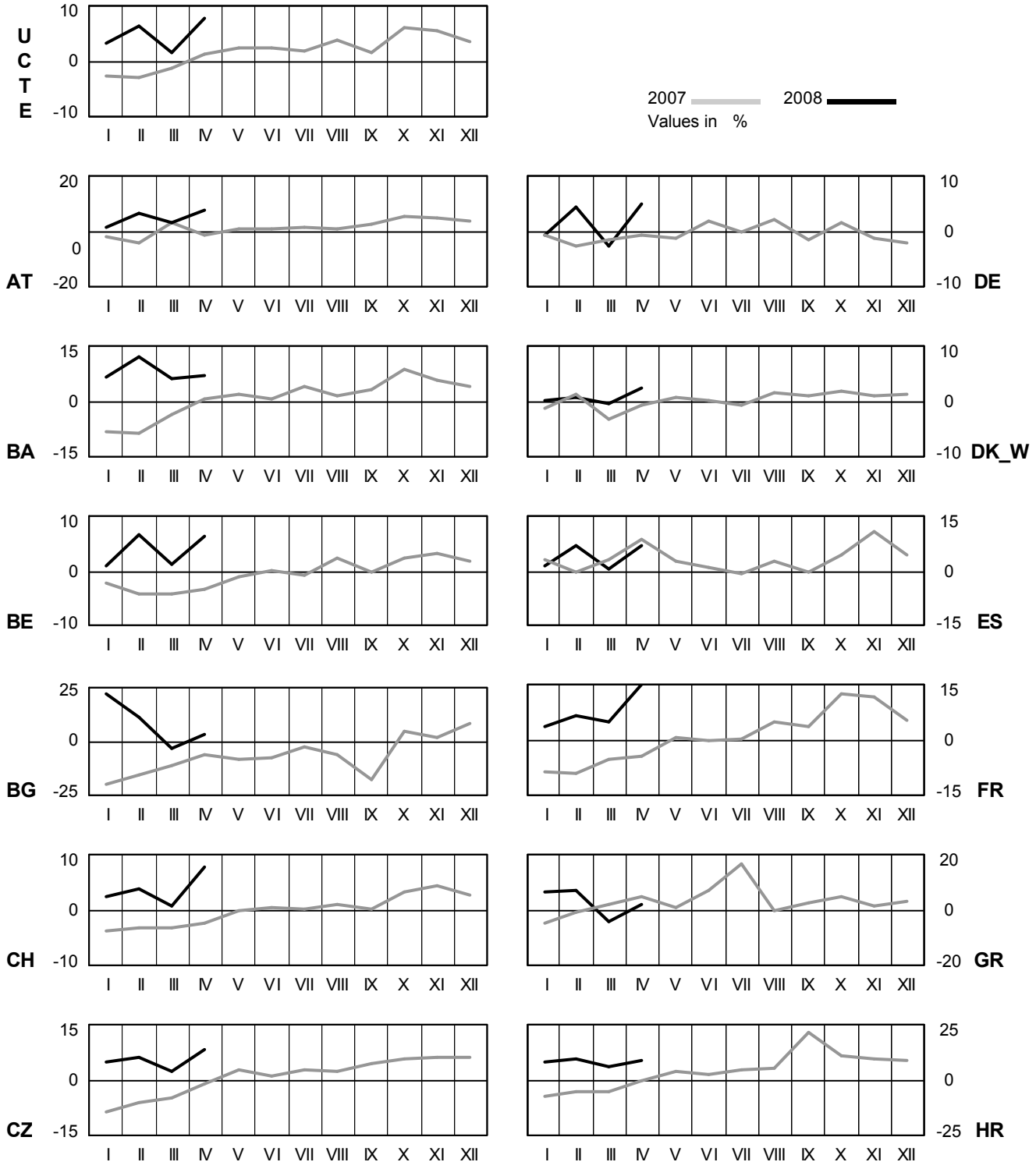

12,0
9,0
6,0
3,0
NL
BE
AT
CH
PT
TWh
I II III IV V VI VII VIII IX X XI XII I II III IV V VI VII VIII IX X XI XII
2007
2008


7,5
5,0
2,5
TWh
CZ
GR
HU
I II III IV V VI VII VIII IX X XI XII I II III IV V VI VII VIII IX X XI XII
2007
2008


6,0
4,5
3,0
1,5
TWh
RO
RS
BG
SK
I II III IV V VI VII VIII IX X XI XII I II III IV V VI VII VIII IX X XI XII
2007
2008

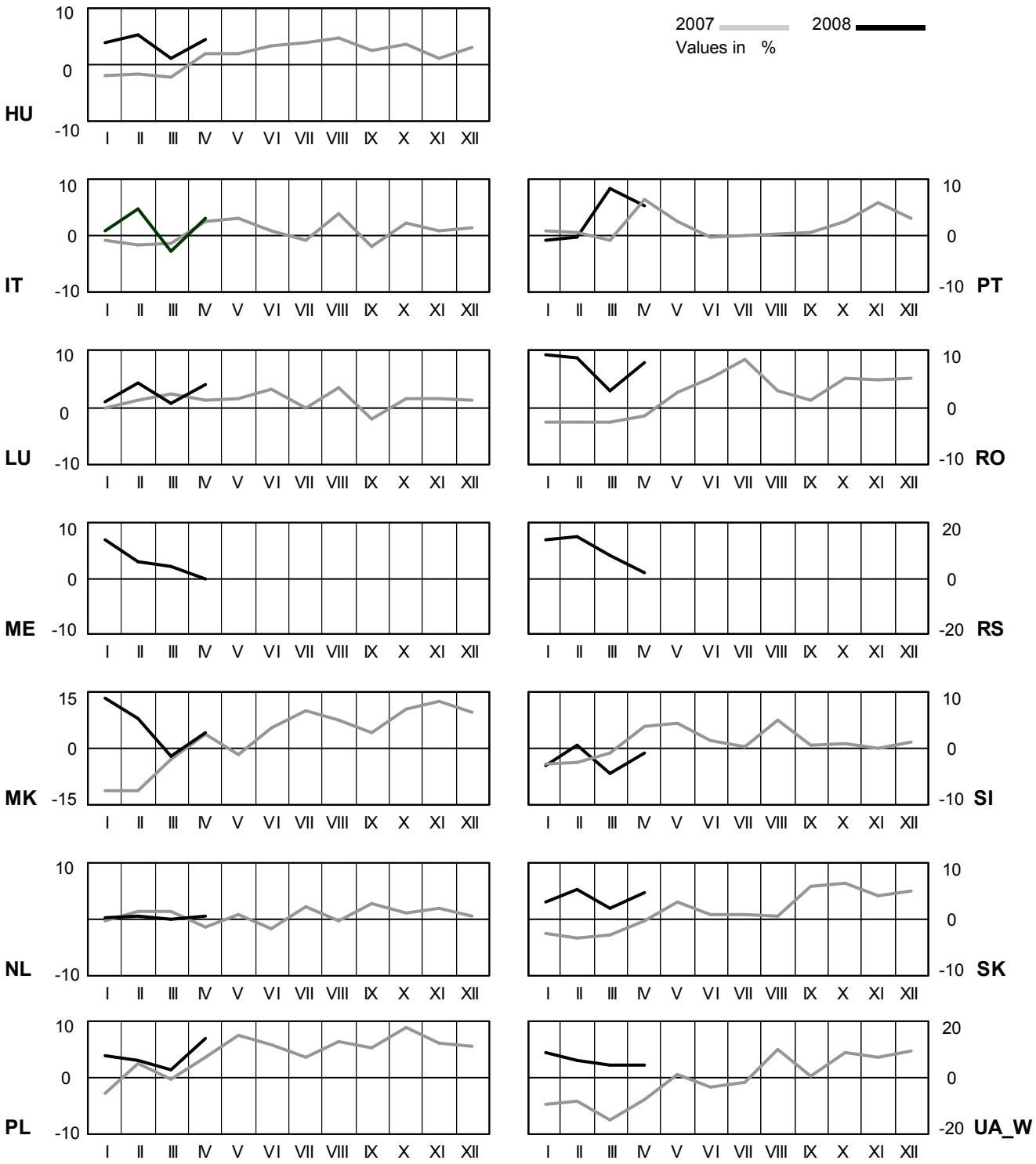

2,2
1,1
0
TWh
DK_W
HR
MK
UA_W
I II III IV V VI VII VIII IX X XI XII I II III IV V VI VII VIII IX X XI XII
2007
2008


1,4
0,7
0
TWh
SI
BA
LU
ME
I II III IV V VI VII VIII IX X XI XII I II III IV V VI VII VIII IX X XI XII
2007
2008


UCTE
2007
2008
Values in %
AT
BA
BE
BG
CH
CZ
DE
DK_W
ES
FR
GR
HR
I II III IV V VI VII VIII IX X XI XII

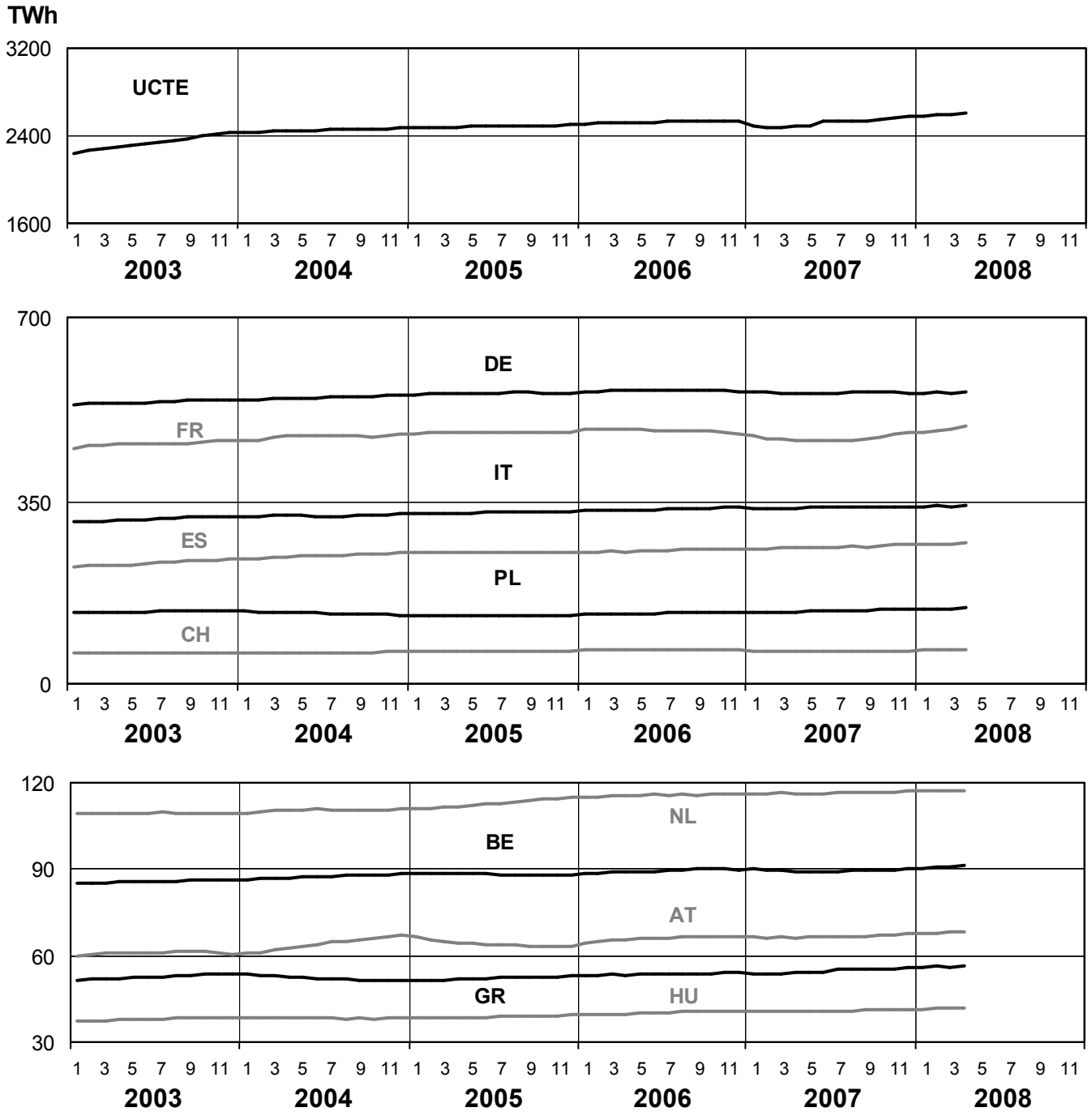
4 Monthly consumption variation

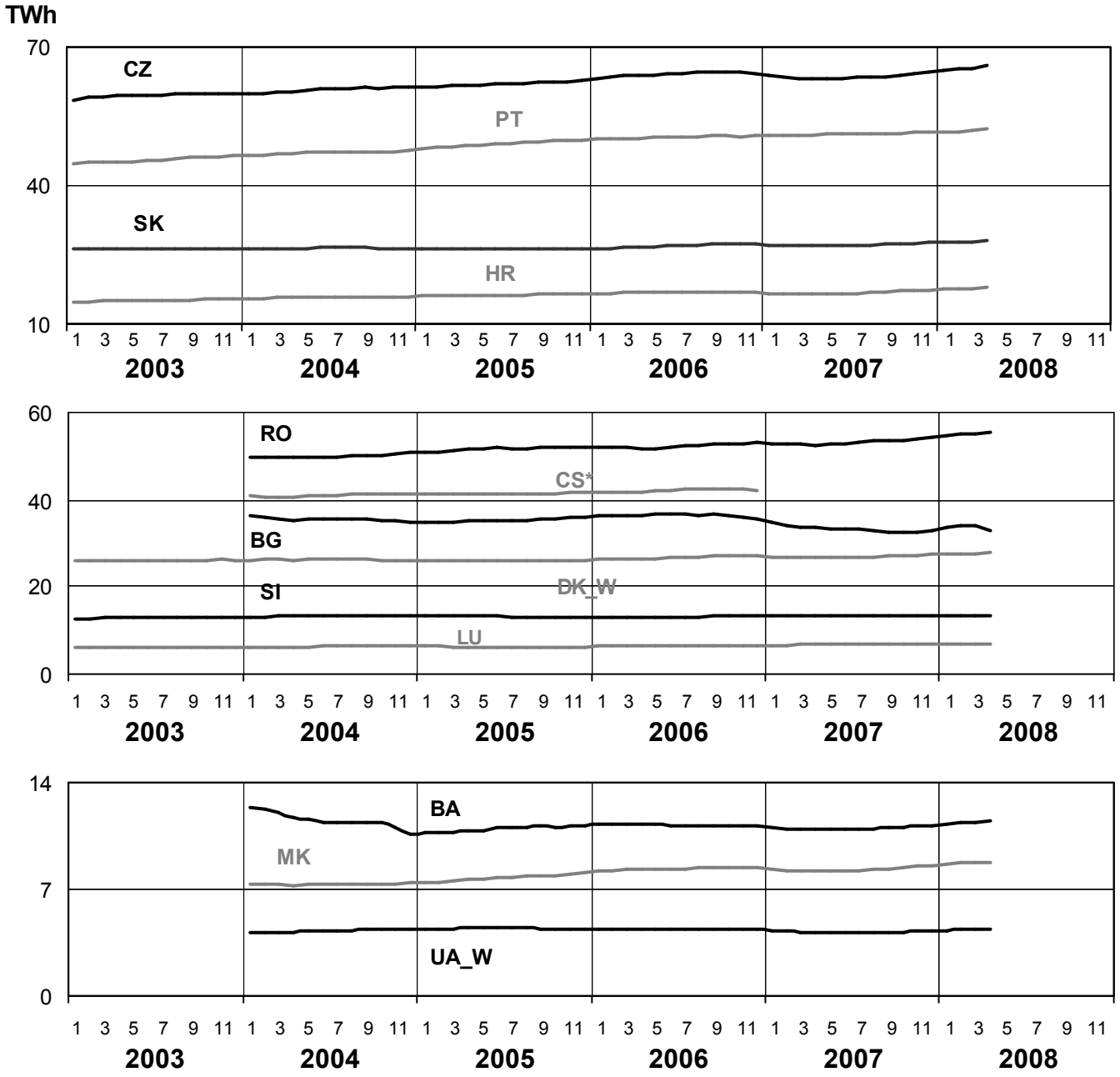
April 2008



5 Consumption of the last 12 months

April 2008

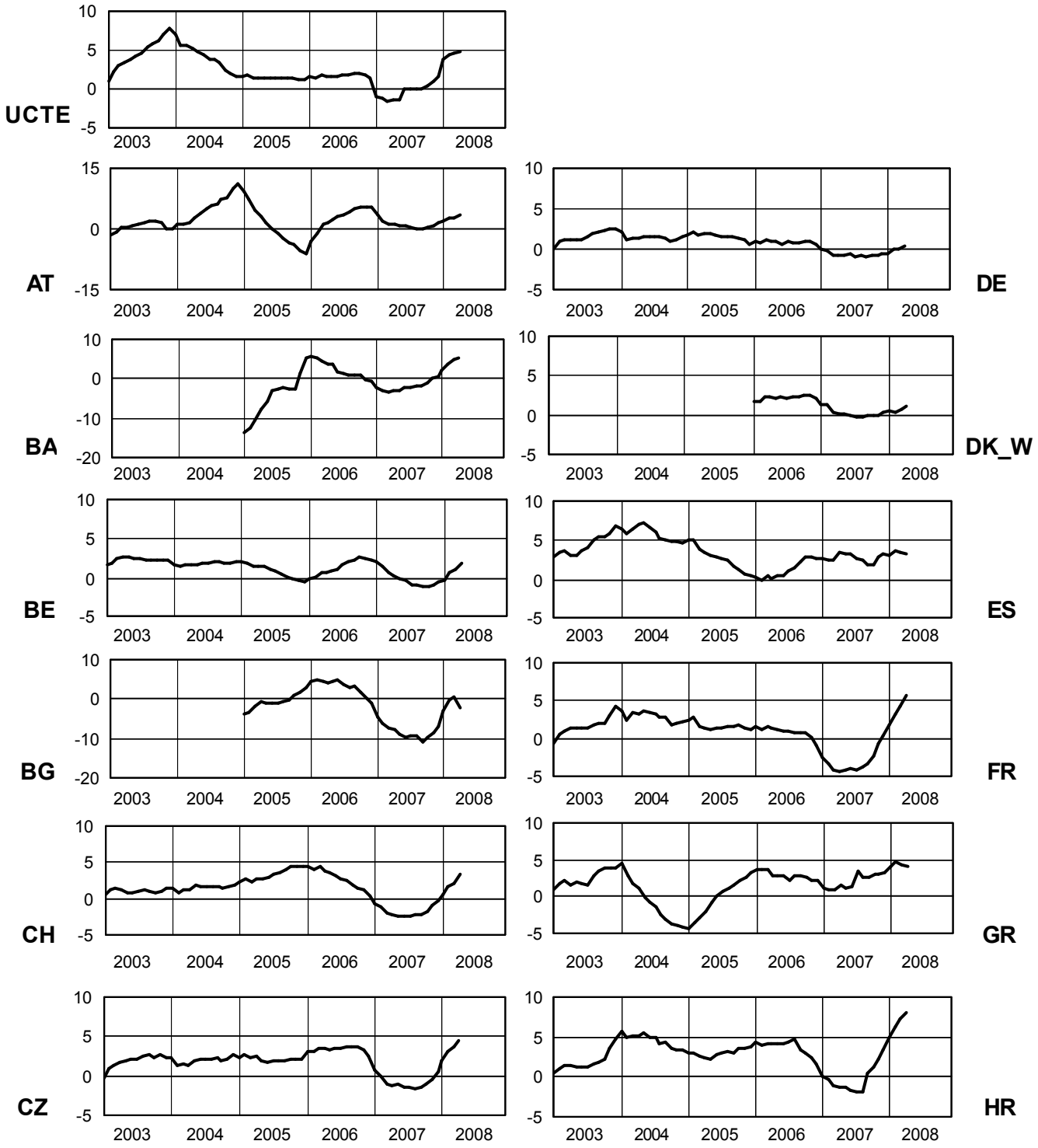




* CS consumptiuon values until December 2006; from 2007 on ME and RS as separate countries

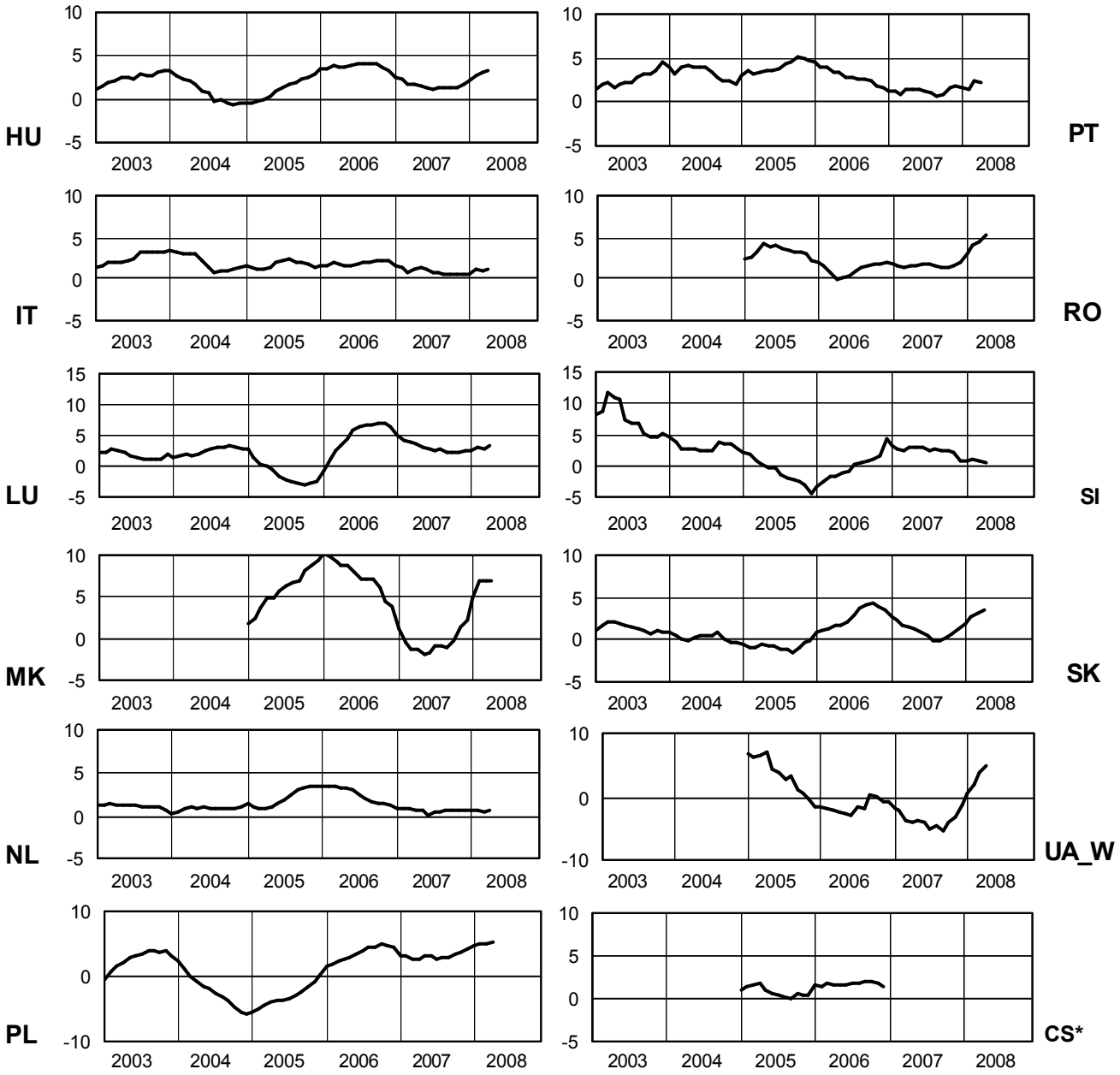
6 Variation of the last 12 months´consumption in %

April 2008

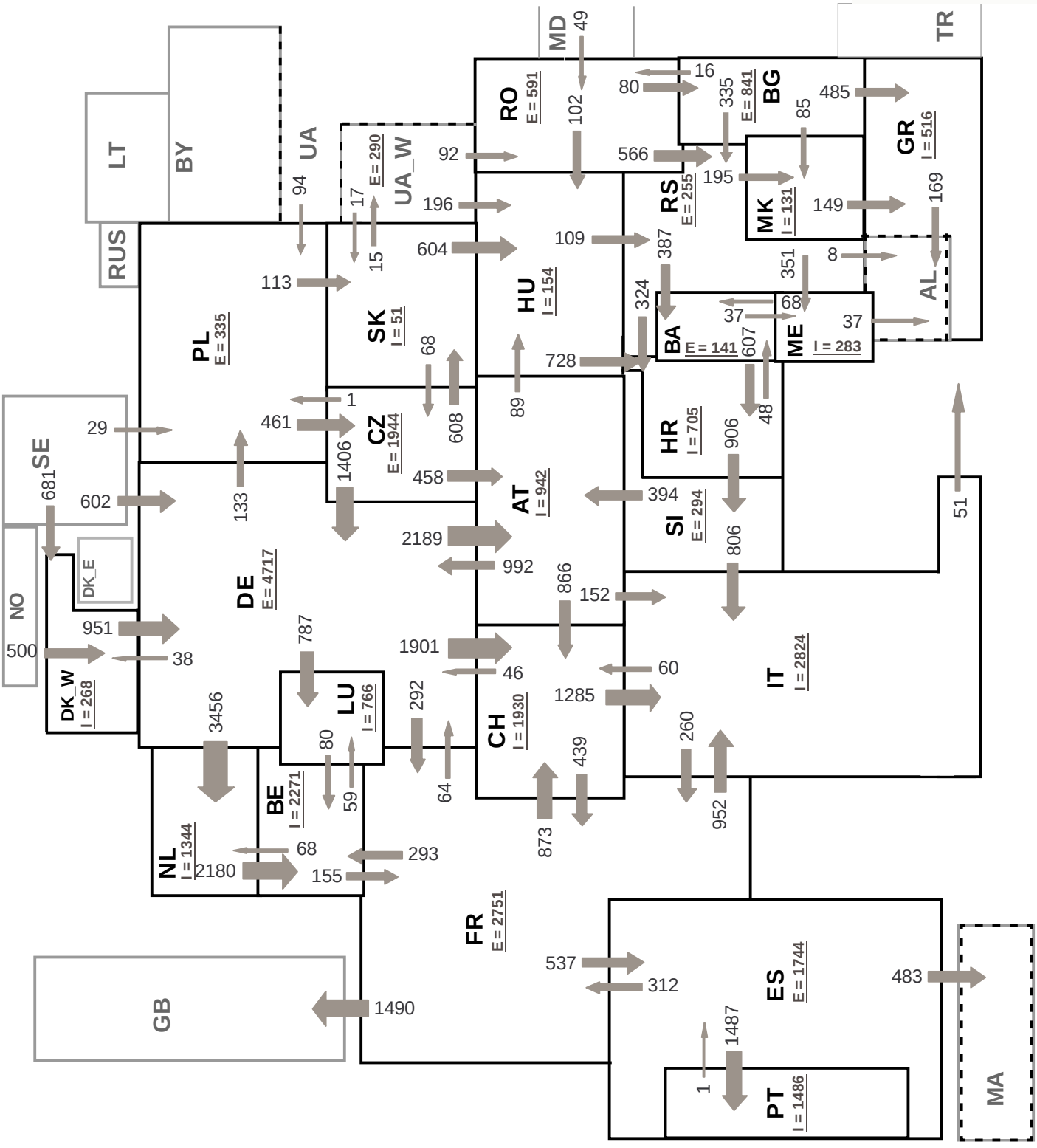


6 Variation of the last 12 months´consumption in %

April 2008



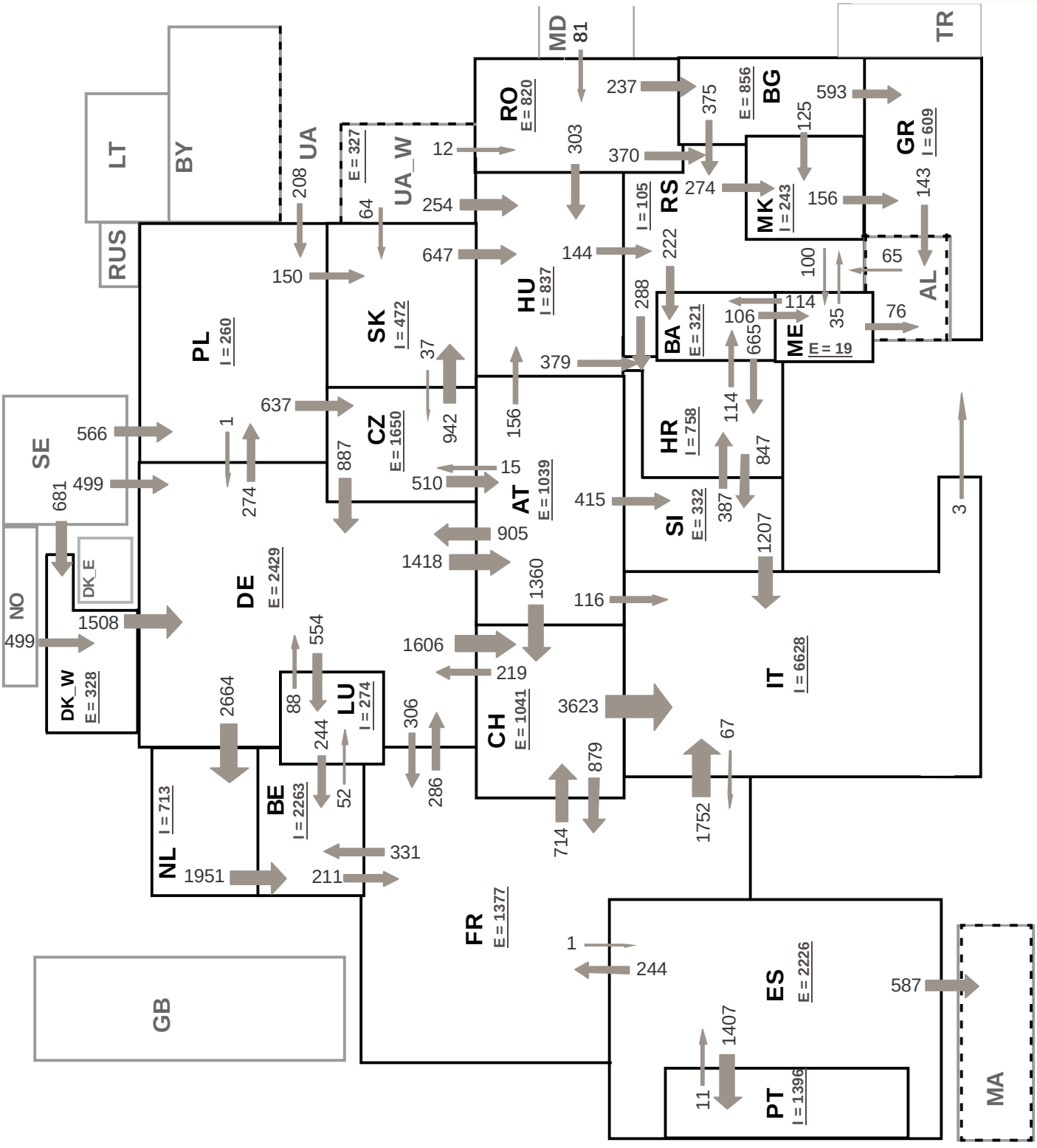
* CS consumptiuon values until December 2006; from 2007 on ME and RS as separate countries



Sum of load flows in MW **UCTE = 31563 MW** **Total = 36025 MW**

Synchronous operation with UCTE region

I = Import balance
E = Export balance

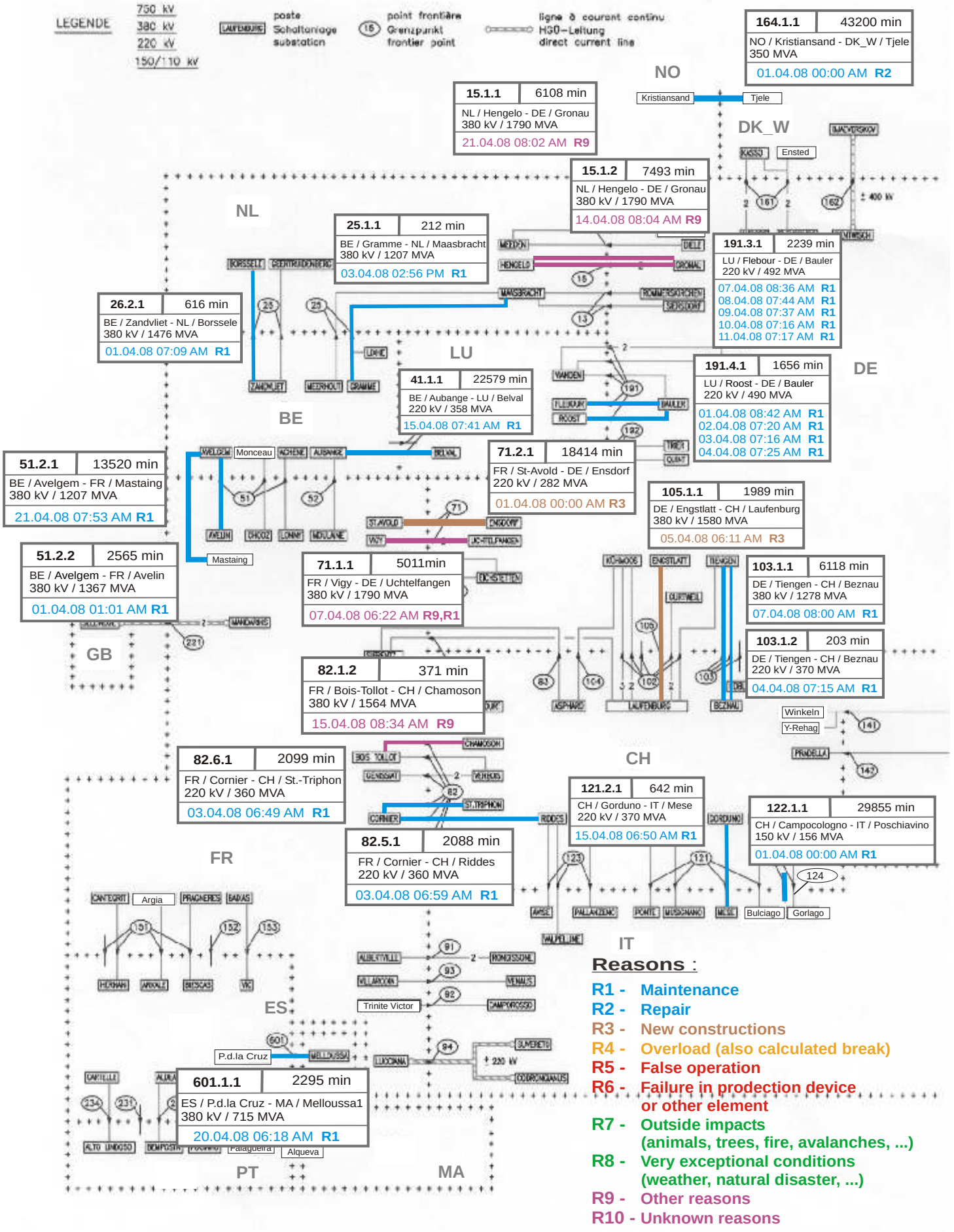


Sum of load flows in MW **UCTE = 34232 MW** **Total = 37970 MW**

Synchronous operation with UCTE region

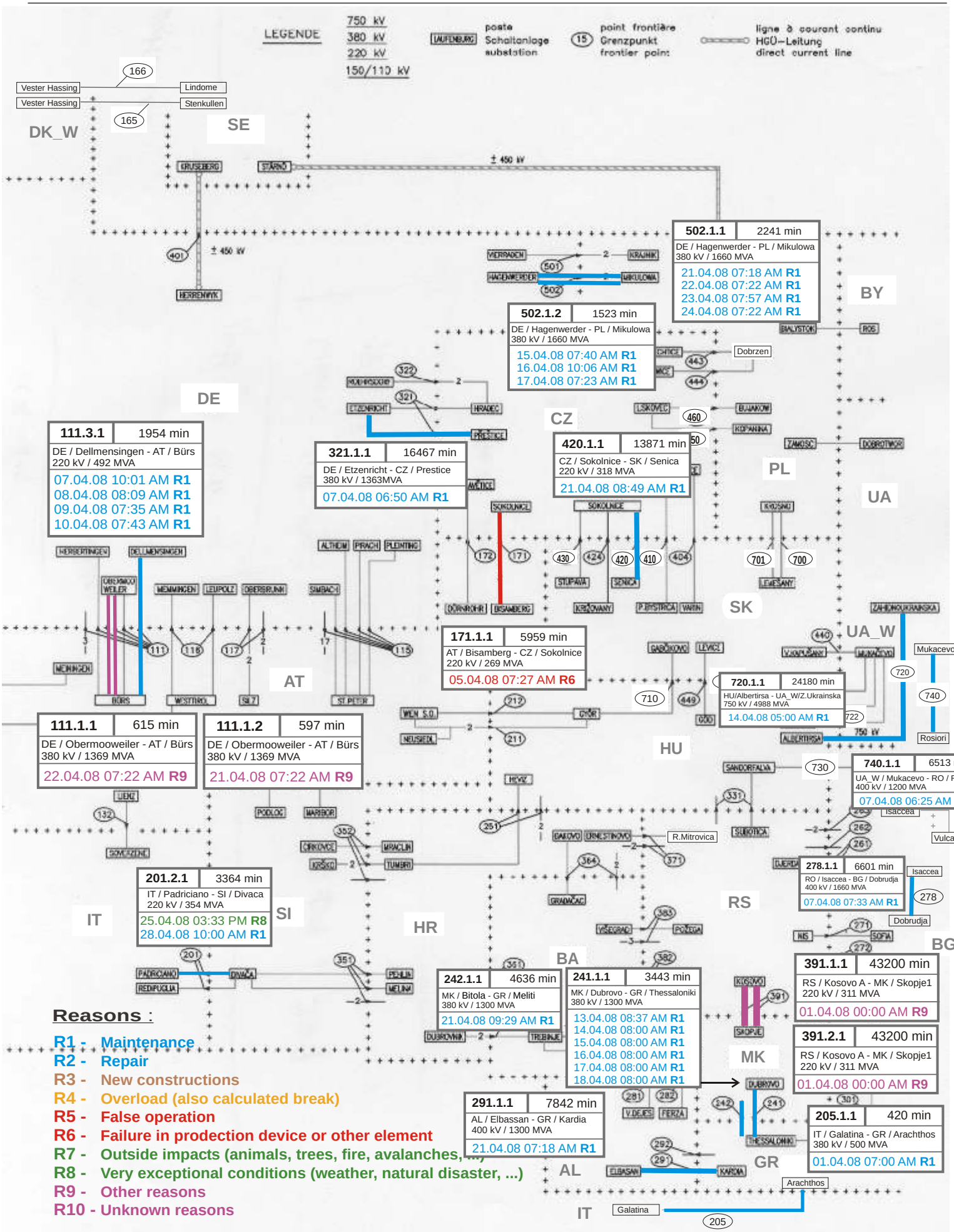
I = Import balance
E = Export balance

Unavailability of international tie lines
(major events with sum over 200 minutes)



9 Unavailability of international tie lines
(major events with sum over 200 minutes)

April 2008



502.1.1 | 2241 min
DE / Hagenwerder - PL / Mikulowa
380 kV / 1660 MVA
21.04.08 07:18 AM **R1**
22.04.08 07:22 AM **R1**
23.04.08 07:57 AM **R1**
24.04.08 07:22 AM **R1**

502.1.2 | 1523 min
DE / Hagenwerder - PL / Mikulowa
380 kV / 1660 MVA
15.04.08 07:40 AM **R1**
16.04.08 10:06 AM **R1**
17.04.08 07:23 AM **R1**

111.3.1 | 1954 min
DE / Dellmensingen - AT / Bürs
220 kV / 492 MVA
07.04.08 10:01 AM **R1**
08.04.08 08:09 AM **R1**
09.04.08 07:35 AM **R1**
10.04.08 07:43 AM **R1**

321.1.1 | 16467 min
DE / Etzenricht - CZ / Prestice
380 kV / 1363MVA
07.04.08 06:50 AM **R1**

420.1.1 | 13871 min
CZ / Sokolnice - SK / Senica
220 kV / 318 MVA
21.04.08 08:49 AM **R1**

171.1.1 | 5959 min
AT / Bisamberg - CZ / Sokolnice
220 kV / 269 MVA
05.04.08 07:27 AM **R6**

720.1.1 | 24180 min
HU/Albertirsa - UA_W/Z.Ukrainska
750 kV / 4988 MVA
14.04.08 05:00 AM **R1**

740.1.1 | 6513 min
UA_W / Mukacevo - RO / Rosiori
400 kV / 1200 MVA
07.04.08 06:25 AM **R1**

111.1.1 | 615 min
DE / Obermooweiler - AT / Bürs
380 kV / 1369 MVA
22.04.08 07:22 AM **R9**

111.1.2 | 597 min
DE / Obermooweiler - AT / Bürs
380 kV / 1369 MVA
21.04.08 07:22 AM **R9**

201.2.1 | 3364 min
IT / Padriciano - SI / Divaca
220 kV / 354 MVA
25.04.08 03:33 PM **R8**
28.04.08 10:00 AM **R1**

278.1.1 | 6601 min
RO / Isaccea - BG / Dobrudja
400 kV / 1660 MVA
07.04.08 07:33 AM **R1**

242.1.1 | 4636 min
MK / Bitola - GR / Meliti
380 kV / 1300 MVA
21.04.08 09:29 AM **R1**

241.1.1 | 3443 min
MK / Dubrovo - GR / Thessaloniki
380 kV / 1300 MVA
13.04.08 08:37 AM **R1**
14.04.08 08:00 AM **R1**
15.04.08 08:00 AM **R1**
16.04.08 08:00 AM **R1**
17.04.08 08:00 AM **R1**
18.04.08 08:00 AM **R1**

391.1.1 | 43200 min
RS / Kosovo A - MK / Skopje1
220 kV / 311 MVA
01.04.08 00:00 AM **R9**

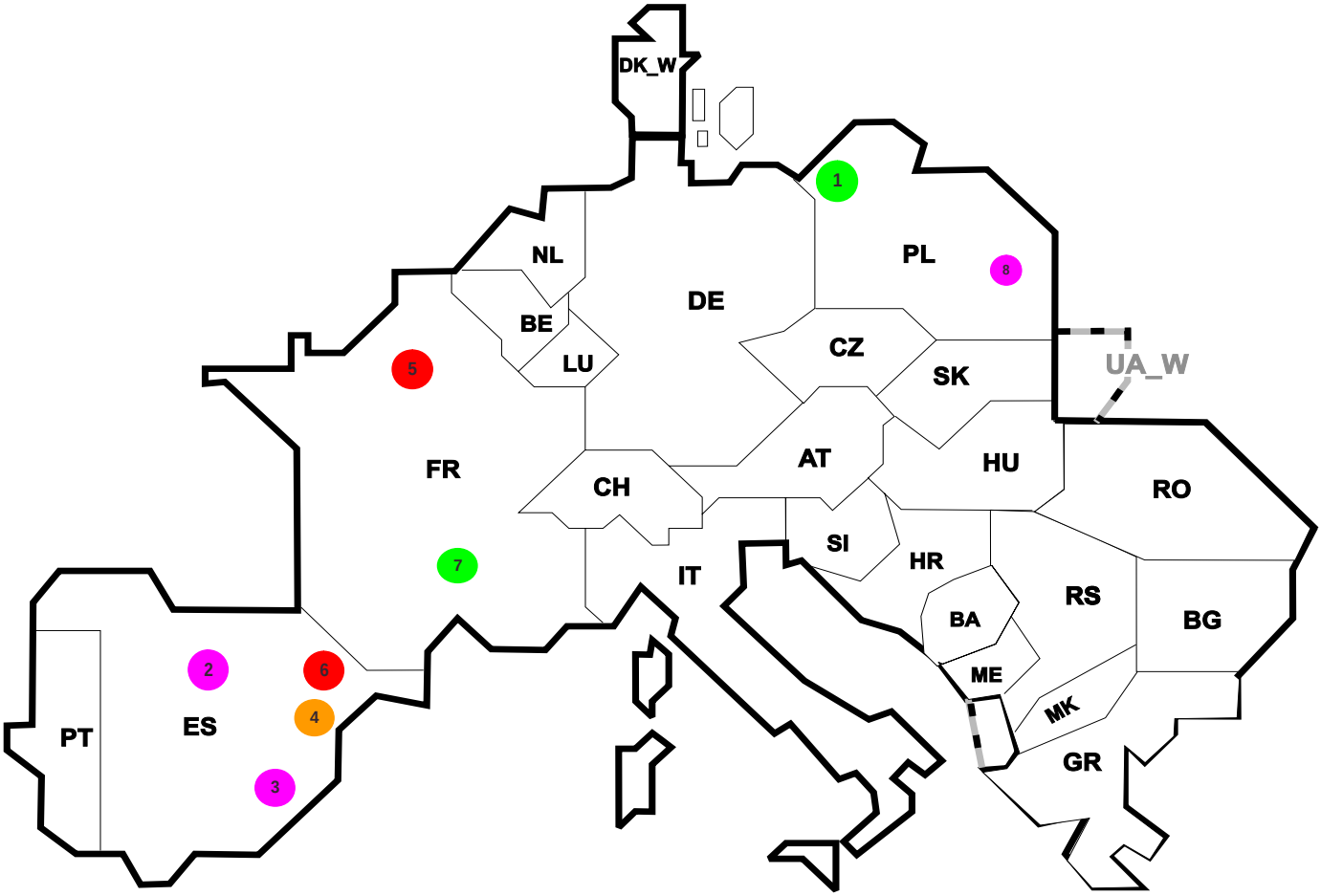
391.2.1 | 43200 min
RS / Kosovo A - MK / Skopje1
220 kV / 311 MVA
01.04.08 00:00 AM **R9**

291.1.1 | 7842 min
AL / Elbassan - GR / Kardia
400 kV / 1300 MVA
21.04.08 07:18 AM **R1**

205.1.1 | 420 min
IT / Galatina - GR / Arachthos
380 kV / 500 MVA
01.04.08 07:00 AM **R1**

Reasons :

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



Reasons:

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

No	Country	Substation	Reason	Energy not supplied [2] [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption[1]
1	PL	Krajnik	R8	2170	130	840	7,941
2	ES	C. Fregacedos	R10	25	3992	74	0,049
3	ES	La Fortuna	R10	4	4117	622	0,008
4	ES	Maragall	R4	4	1859	0	0,007
5	FR	St.Ouen	R6	3	35	5	0,003
6	ES	Vic	R5	2	1160	820	0,003
7	FR	Semnaire	R7	2	5	25	0,002
8	PL	Kozienice	R9	0	167	71	0,000

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

11 Scheduled exchanges in MWh

April 2008

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	454397	971668	3074	453	1059	604
BA	349660	229239	242	141	319	100
BE	33524	1668109	0	2208	0	2116
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	1748364	2427530	1380	3330	3500	2482
CZ	2003242	717729	2750	802	2917	1312
DE	4446142	1340566	7240	2699	6192	1862
DK_W	962133	245674	1605	0	2010	0
ES	1599455	327134	2267	480	2610	300
FR	6746767	3091875	7359	4744	7086	5873
GR	77230	515108	5	520	0	570
HR	112594	570856	170	820	359	1084
HU	696190	1164058	1129	1283	1003	1849
IT	183455	3742791	371	3195	73	6698
ME	228238	366565	200	463	200	498
MK	252800	600	70	307	70	321
NL	637241	1588247	916	2260	1219	2404
PL	277428	326217	415	95	500	778
PT	941	901046	0	1500	0	1400
RO	432206	48947	658	74	910	95
RS	602235	489674	955	725	1121	930
SI	754743	575077	1055	808	1309	971
SK	462218	549934	369	350	600	957
UA_W	290252	0	287	0	325	0

- Control areas can differ from national borders (i.e. German block which includes parts of AT, LU and DK).

- 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.

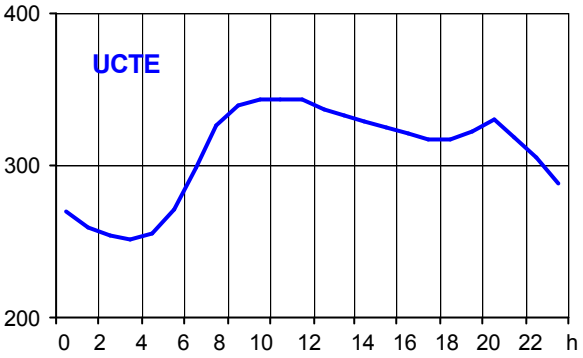
- Export Programs: Sum of all positive values of every hour of every border
- Import Programs: Sum of all negative values of every hour of every border

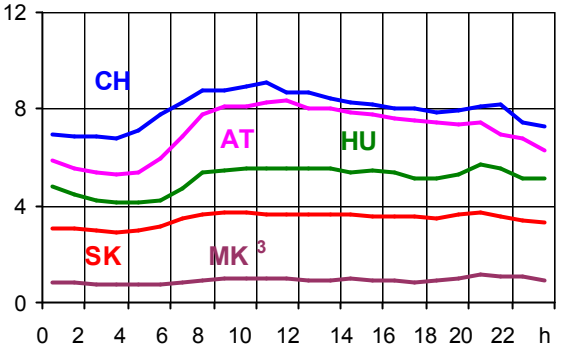
- Export Programs at 03:00: Sum of all positive values the third Wednesday from 02:00 to 03:00 a.m.
- Import Programs at 03:00: Sum of all negative values the third Wednesday from 02:00 to 03:00 a.m.

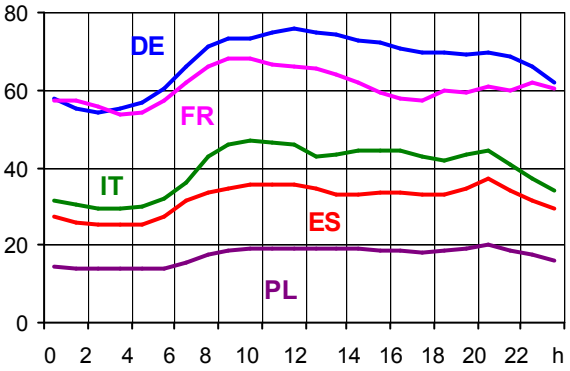
- Export Programs at 11:00: Sum of all positive values the third Wednesday from 10:00 to 11:00 a.m.
- Import Programs at 11:00: Sum of all negative values the third Wednesday from 10:00 to 11:00 a.m.

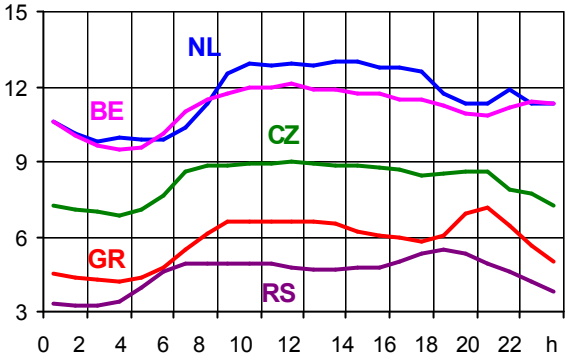
Consumption hourly load curves on 16.04.2008 CET

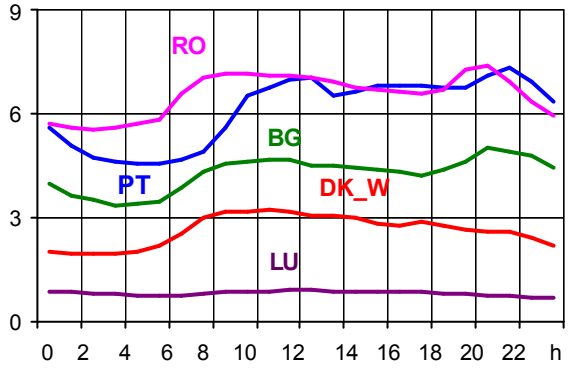
Values in GW

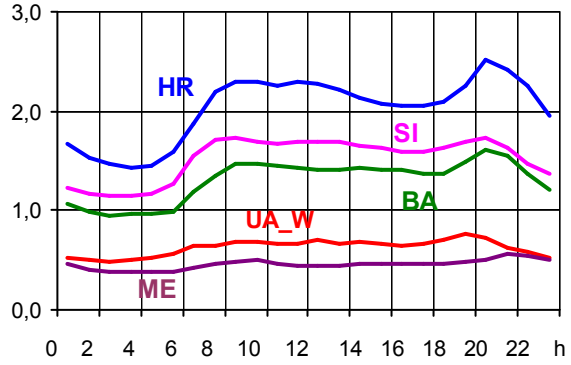












	Highest load MW	var.%[1]	Load representativity %
AT	8390	6,7	100
BA	1617	8,3	100
BE [2]	12086	5,1	100
BG	5009	4,4	100
CH	9071	8,4	100
CZ	8969	8,8	100
DE	75656	1,0	91
DK_W	3205	2,2	100
ES	36943	4,8	98
FR	68374	20,5	100
GR	7143	-1,6	100
HR	2515	9,3	100
HU	5692	2,9	100
IT	46924	-0,4	100
LU	917	-2,6	100
ME	561	0,7	100
MK [3]	1133	n.a.	100
NL	13027	-14,2	100
PL [4]	19891	5,8	100
PT	7306	5,8	97
RO	7367	43,7	100
RS	5494	-16,7	100
SI	1741	-8,3	100
SK	3762	3,3	100
UCTE	**344159**	6,1	
UA_W	766	3,4	100

[1] Variation as compared to corresponding month of the previous year
[2] The reported figures are best estimates based on actual measurements and extrapolations.
[3] Load values as of April 2007
[4] Operational data

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