



March 2008

Monthly provisional values

union for the co-ordination of transmission of electricity



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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

Countries	Net production in GWh							Exchange balance in GWh	Pump in GWh	Consumption in GWh			
	Therm. nuclear	Therm. conv.	Hydro prod	Other renew.	Of which wind	Not identify	Total			monthly	var. [%]	last 12 months	var. [%]
AT	0	2007	2877	0	0	686	5570 ¹	710	216	6064	2,8	68056	2,6
BA	0	701	436	0	0	0	1137	-125	0	1012	6,3	11408	4,7
BE ²	3442	2472	153	350	86	0	6417 ¹	1760	142	8035	1,3	90596	1,2
BG	1432	1766	255	0	0	0	3453	-434	65	2954	-3,2	34065	0,4
CH	2401	181	2273	99	2	0	4954 ¹	920	142	5732	1,1	63619	2,1
CZ	2142	4685	379	46	30	0	7252 ¹	-1187	48	6017	2,3	65439	3,8
DE	13178	30841	2144	7718	5532	0	53881 ¹	-4220	714	48947	-2,7	556247	0,0
DK_W	0	1355	4	749	603	0	2108 ¹	-211	0	1897	-0,7	21801	0,8
ES	5344	13641	1340	4375	1093	0	24700 ¹	-1199	391	23110	0,5	269814	3,4
FR	37204	6443	5547	1084	696	0	50278	-3029	750	46499	4,7	486973	4,2
GR	0	3253	253	193	173	0	3699 ¹	672	101	4270	-4,4	56081	4,2
HR	0	559	437	4	4	0	1000 ¹	576	6	1570	5,7	17729	7,3
HU	1315	1936	0	0	0	0	3251 ¹	277	0	3528	1,1	41641	3,0
IT	0	21600	2763	1123	667	0	25486	3404	597	28293	-2,8	340533	1,2
LU	0	267	84	16	8	0	367	347	94	620	1,5	6845	2,8
ME	0	119	171	0	0	0	290	118	0	408	2,3	4706	n.a.
MK	0	499	85	0	0	0	584 ¹	177	0	761	-2,2	8719	6,9
NL	361	8376	0	779	510	0	9516 ¹	909	0	10425	0,0	117037	0,5
PL ³	0	12161	294	94	81	0	12549 ¹	66	69	12546	1,4	143257	5,0
PT	0	2682	342	795	615	0	3819 ¹	1041	56	4804	8,5	51902	2,3
RO	968	2771	1558	0	0	0	5297 ¹	-496	6	4795	2,9	55074	4,6
RS	0	2559	1117	0	0	0	3676	-11	93	3572	8,6	39040	n.a.
SI	515	434	189	0	0	0	1138	-25	0	1113	-4,5	13366	0,8
SK	1470	574	493	28	0	0	2565 ¹	-68	19	2478	1,8	27828	3,1
UCTE	69772	121882	23194	17453	10100	686	232987 ¹	-28	3509	229450	1,5	2591776	3,3
UA_W	0	726	20	0	0	0	746 ¹	-357	0	389	4,3	4347	3,9

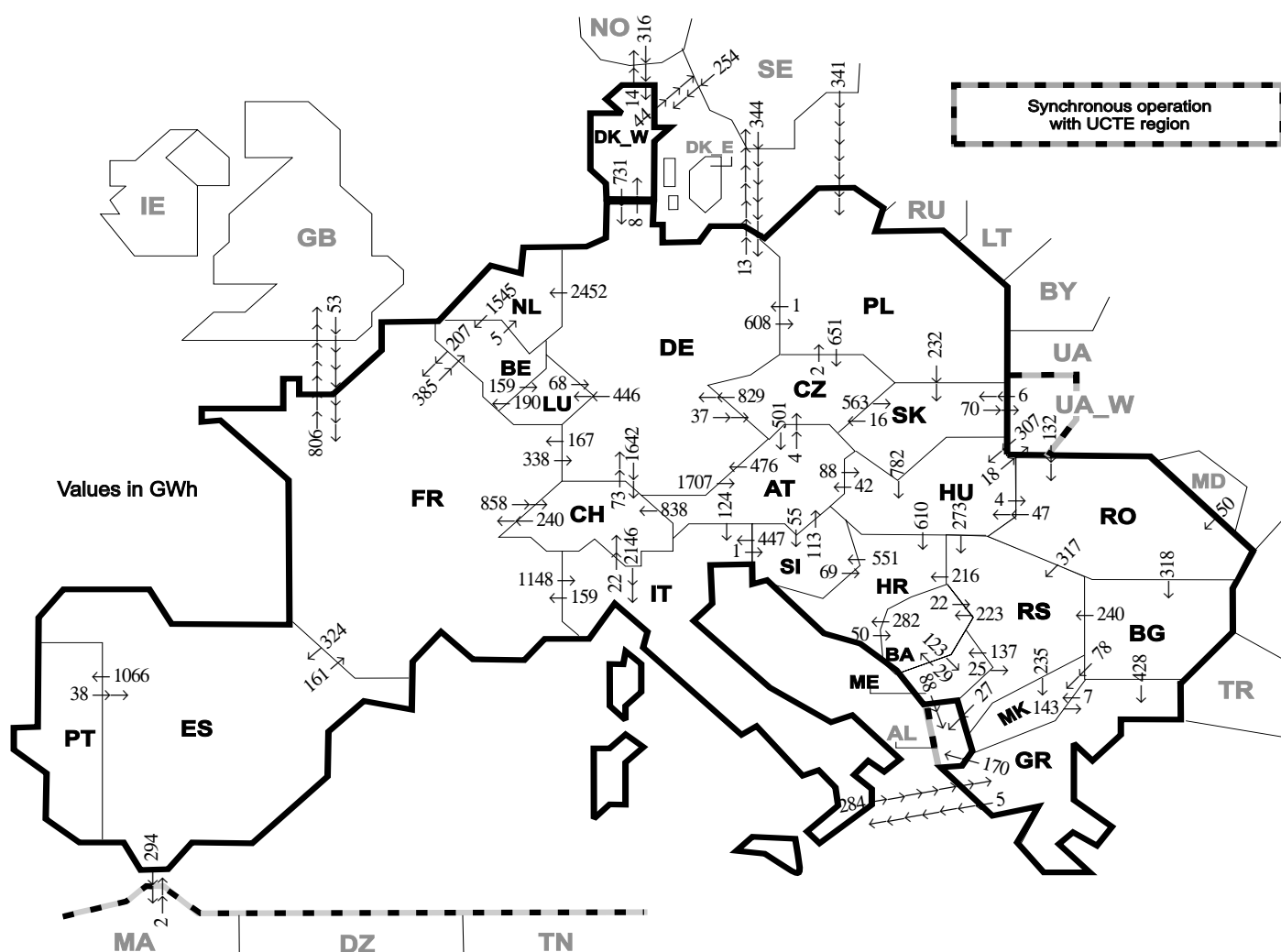
¹ Including deliveries from industry

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	94	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



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	-	-	-	-	838	4	476	-	-	-	-	-	88	124	-	-	-	-	-	-	-	-	55	-	-	-	1585
BA	-	-	-	-	-	-	-	-	-	-	-	282	-	-	-	123	-	-	-	-	-	22	-	-	-	-	427
BE	-	-	-	-	-	-	-	-	-	207	-	-	-	-	159	-	5	-	-	-	-	-	-	-	-	-	371
BG	-	-	-	-	-	-	-	-	-	-	428	-	-	-	-	-	78	-	-	-	0	240	-	-	-	0	746
CH	0	-	-	-	-	-	73	-	-	240	-	-	-	2146	-	-	-	-	-	-	-	-	-	-	-	-	2459
CZ	501	-	-	-	-	-	829	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	563	-	-	1895
DE	1707	-	-	-	1642	37	-	8	167	-	-	-	-	446	-	-	-	2452	608	-	-	-	-	-	-	13	7080
DK_W	-	-	-	-	-	-	731	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	789
ES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1066	-	-	-	-	-	294	1521
FR	-	-	385	-	858	-	338	-	324	-	-	-	-	1148	-	-	-	-	-	-	-	-	-	-	-	806	3859
GR	-	-	-	0	-	-	-	-	-	-	-	-	-	5	-	-	7	-	-	-	-	-	-	-	-	170	182
HR	-	50	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	0	551	-	-	601	
HU	42	-	-	-	-	-	-	-	-	-	-	610	-	-	-	-	-	-	-	-	4	273	-	0	18	947	
IT	0	-	-	-	22	-	-	-	159	284	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	466	
LU	-	-	190	-	-	-	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	258	
ME	-	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	-	-	88	142	
MK	-	-	-	0	-	-	-	-	-	-	-	143	-	-	-	-	-	-	-	-	-	-	0	-	-	143	
NL	-	-	1545	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1545	
PL	-	-	-	-	-	651	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	232	-	0	884	
PT	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	
RO	-	-	-	318	-	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-	-	-	-	0	0	682	
RS	-	223	-	0	-	-	-	-	-	-	-	216	0	-	137	235	-	-	-	-	0	-	-	-	-	27	838
SI	113	-	-	-	-	-	-	-	-	-	69	447	-	-	-	-	-	-	-	-	-	-	-	-	-	629	
SK	-	-	-	-	-	16	-	-	-	-	-	-	782	-	-	-	-	-	0	-	-	-	-	-	70	868	
UA_W	-	-	-	-	-	-	-	-	-	-	-	-	307	-	-	-	-	-	-	-	132	-	6	-	-	445	
Other III ¹	-	-	-	0	-	-	344	570	2	53	0	-	-	-	-	0	-	-	341	-	50	0	-	-	-	1360	
Sum imp	2363	302	2120	318	3360	708	2860	578	364	987	855	1177	1224	3870	605	260	320	2457	951	1066	186	877	607	801	88	1456	30760

Sum of physical energy flows between UCTE countries = 27411GWh Total physical energy flows = 30760GWh

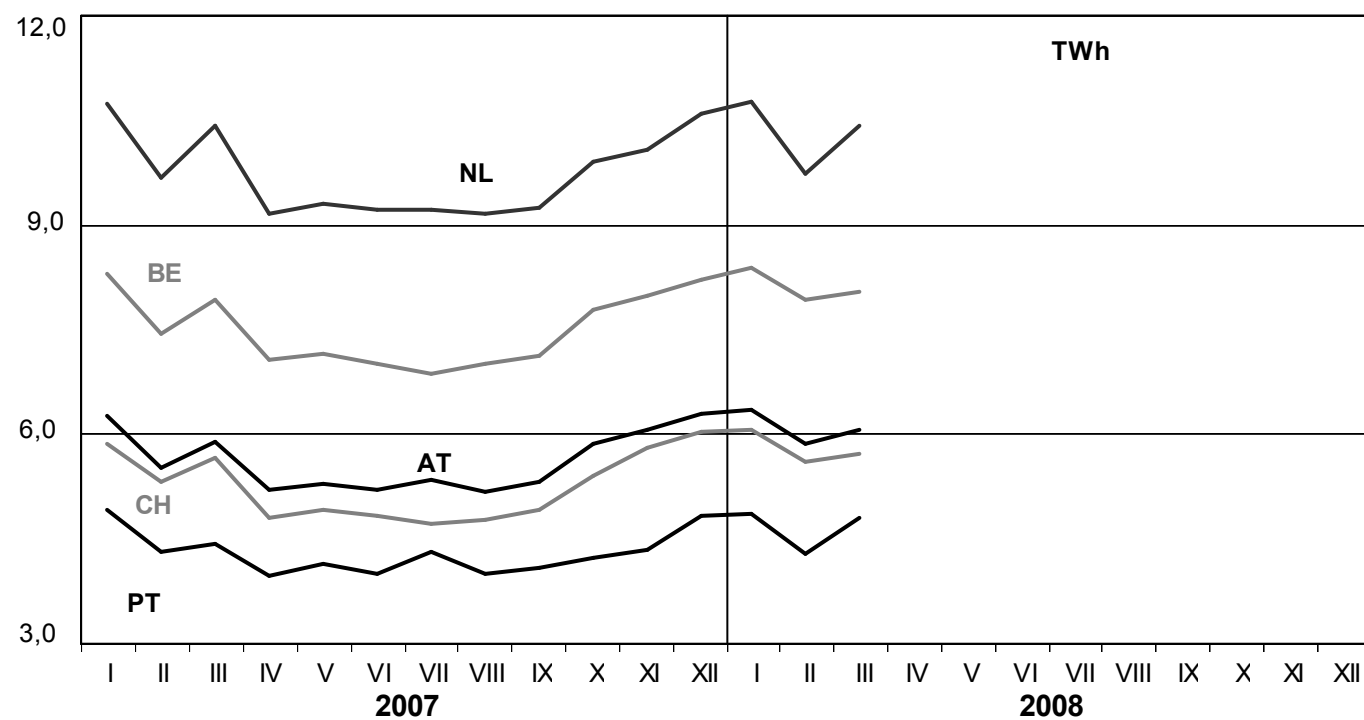
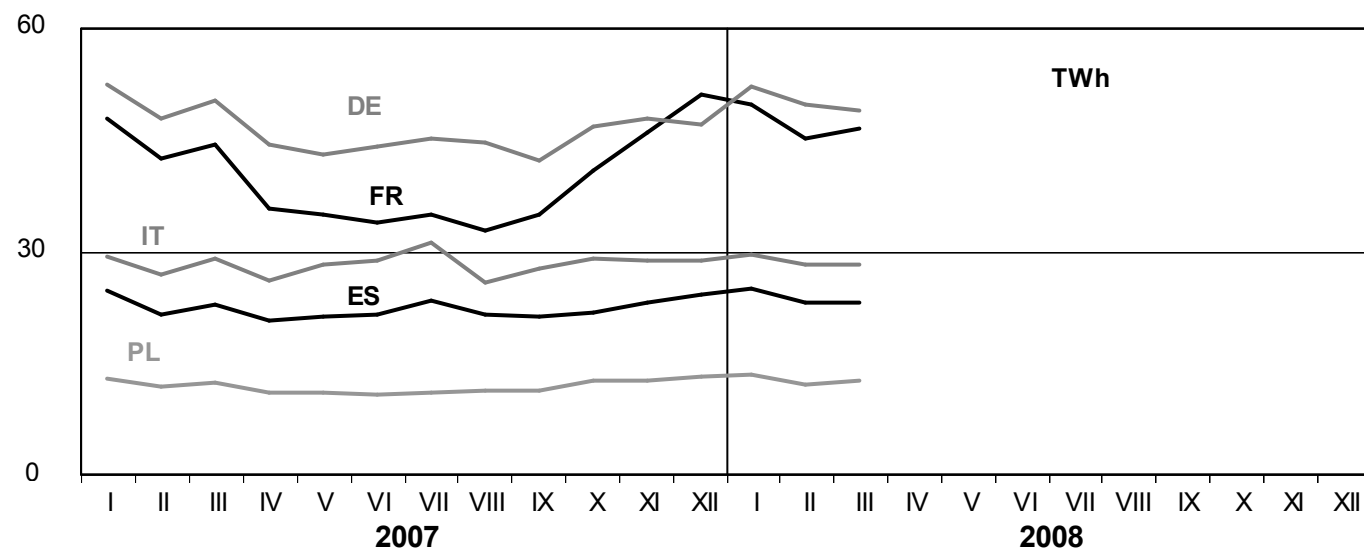
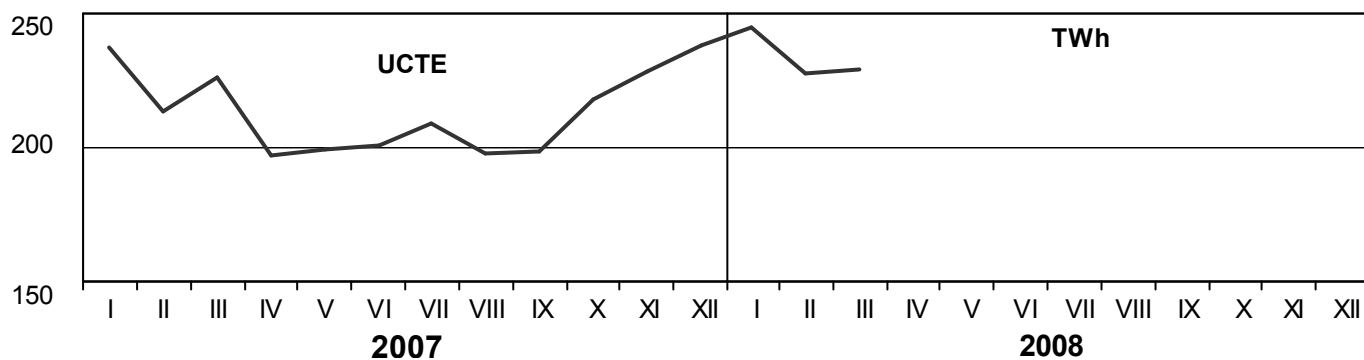
¹ Other III: Albania, Belarus, Denmark East, Great Britain, Morocco, Republic of Moldavia, Norway, Sweden, Republic of Turkey and Ukraine

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

3

Monthly consumption

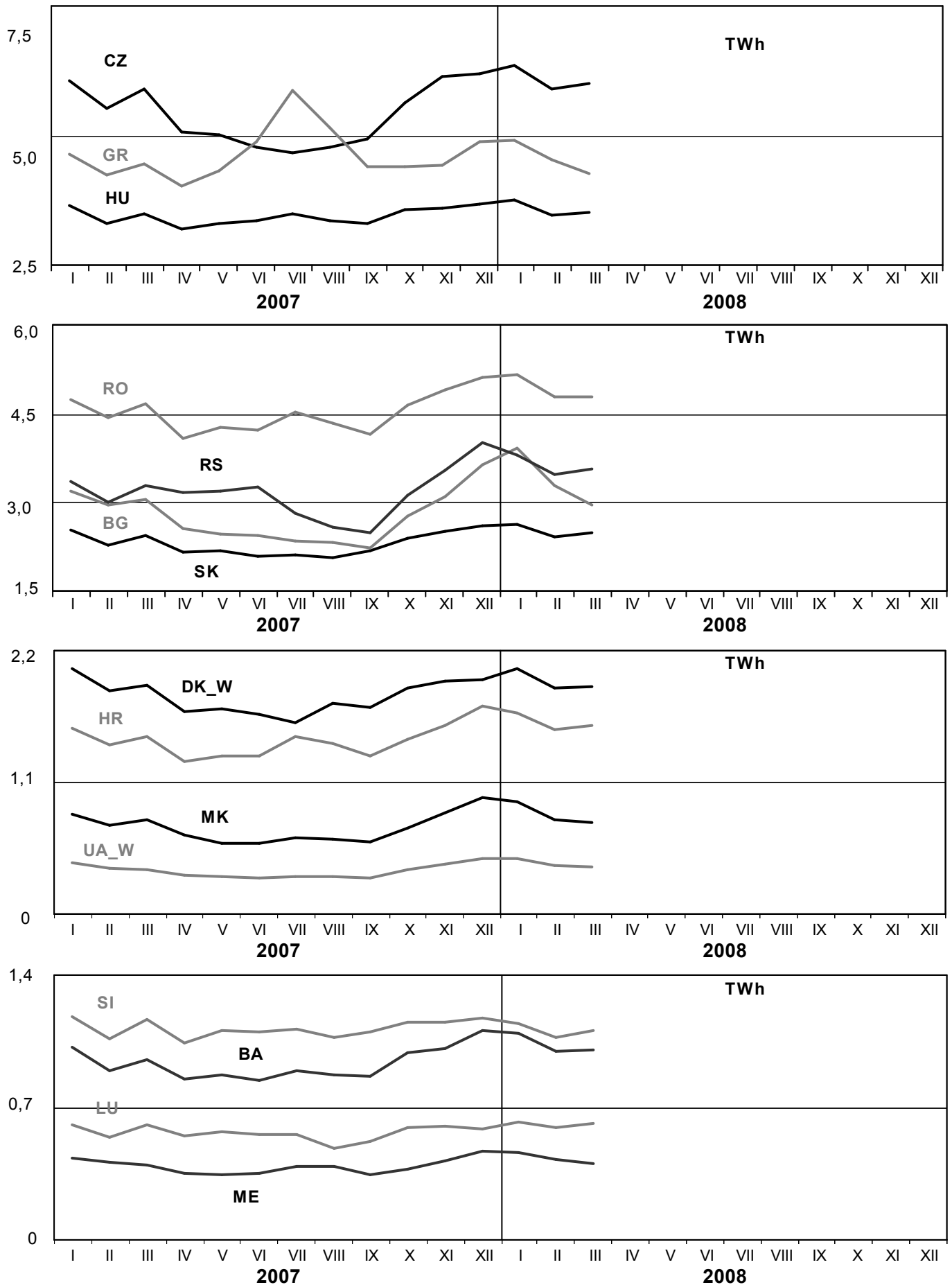
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3

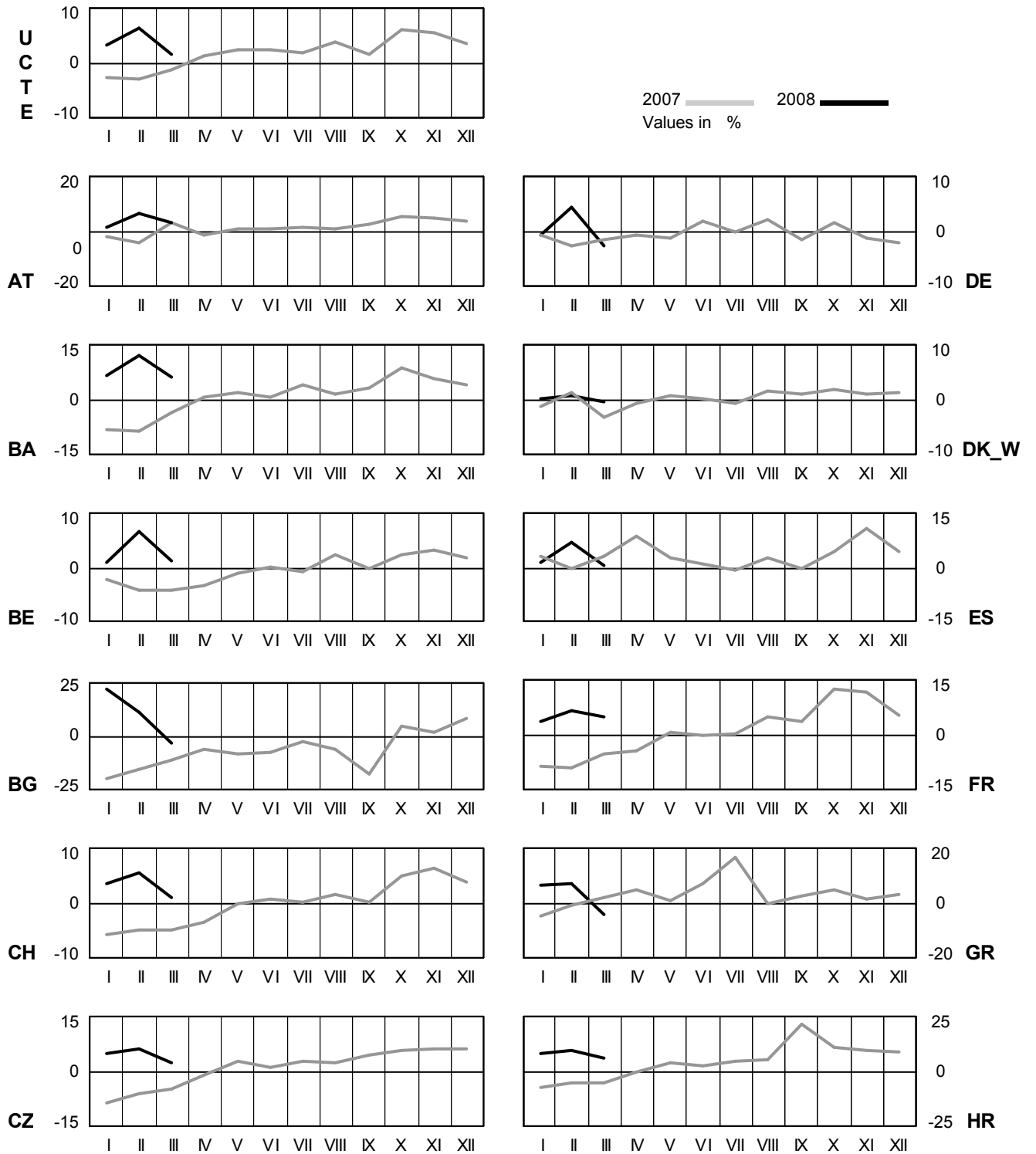
Monthly consumption

March 2008



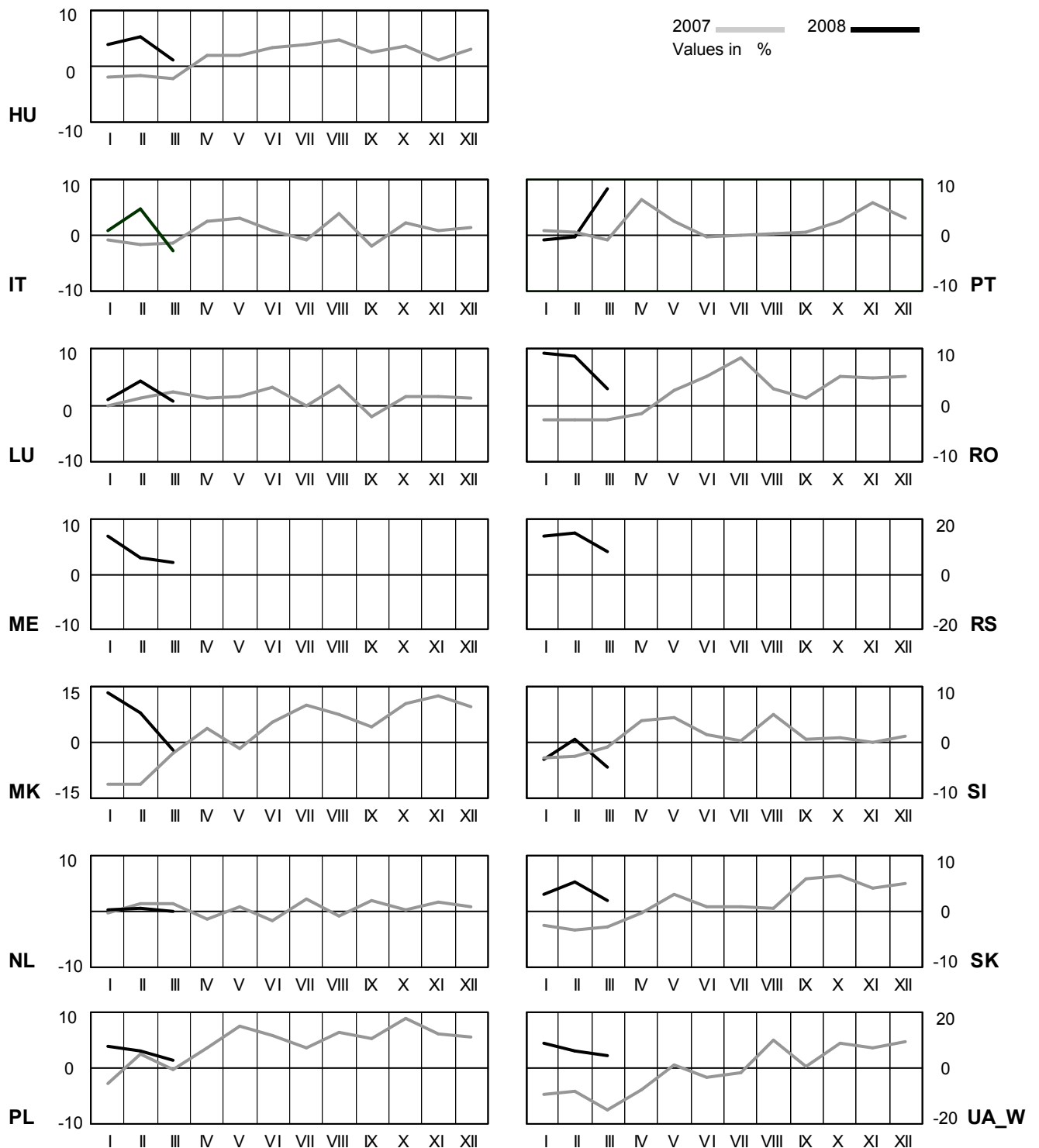
4 Monthly consumption variation

March 2008



4 Monthly consumption variation

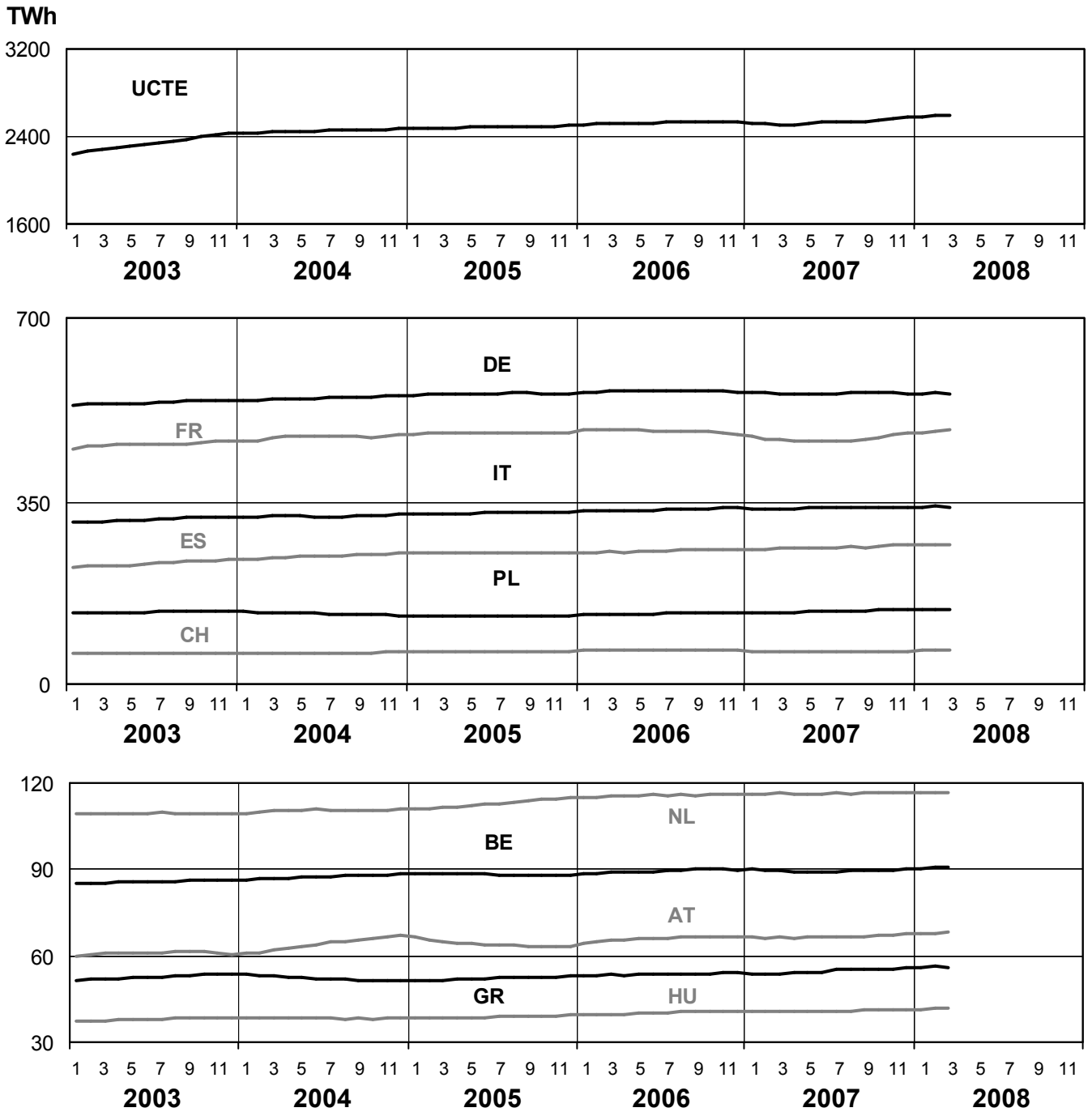
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5

Consumption of the last 12 months

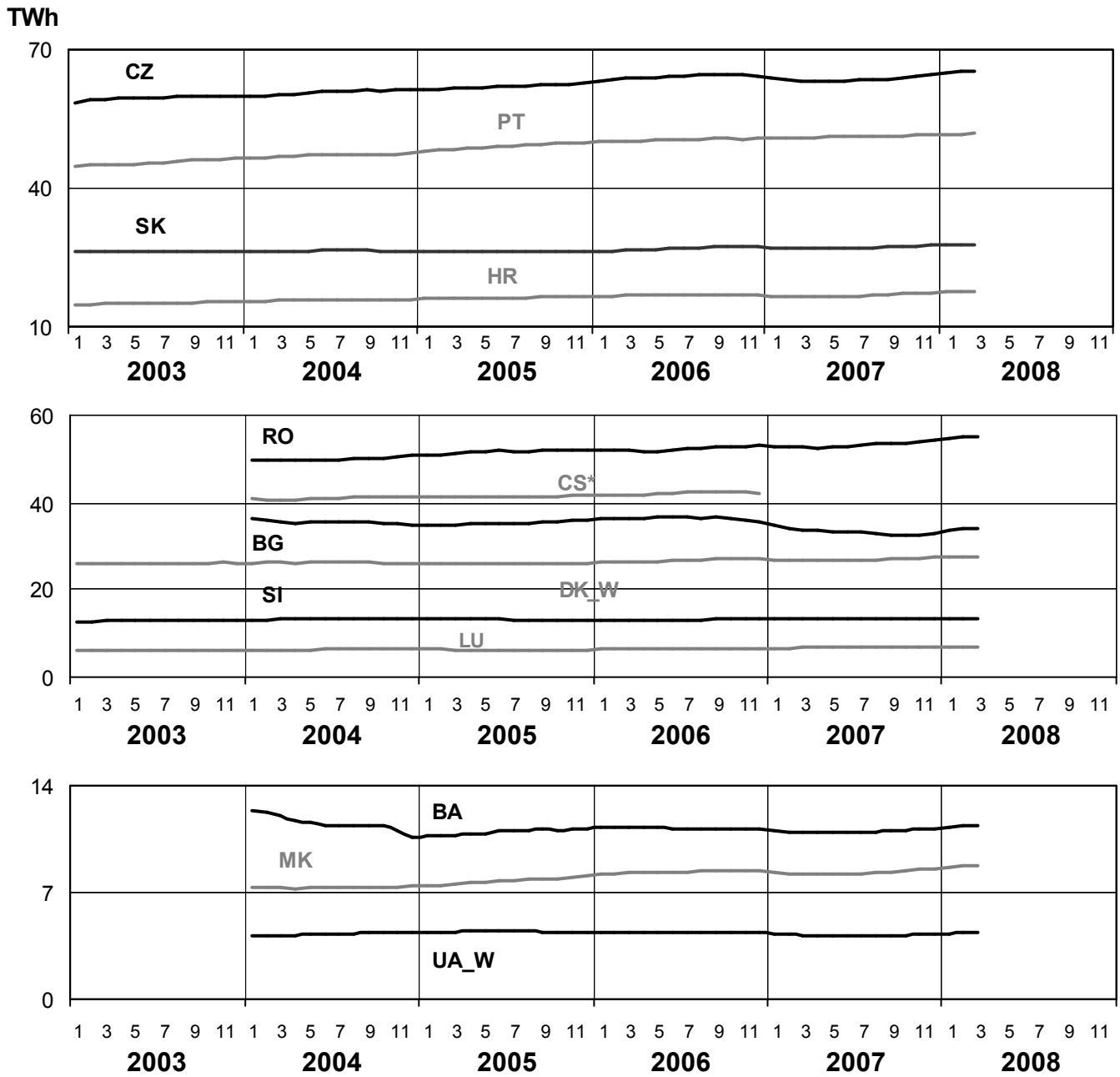
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5

Consumption of the last 12 months

March 2008

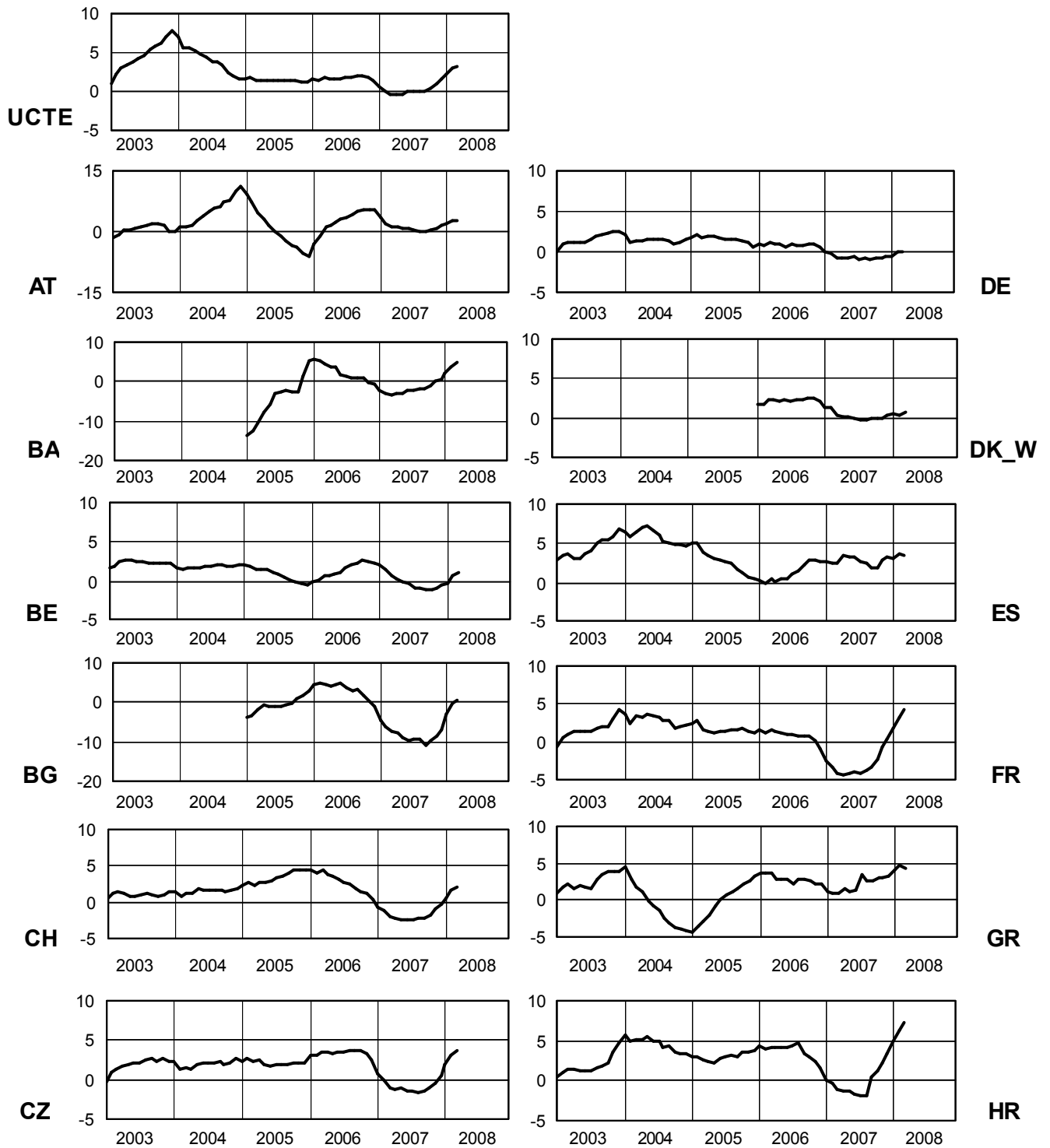


* CS consumption values until December 2006; from 2007 on ME and RS as separate countries

6

Variation of the last 12 months' consumption in %

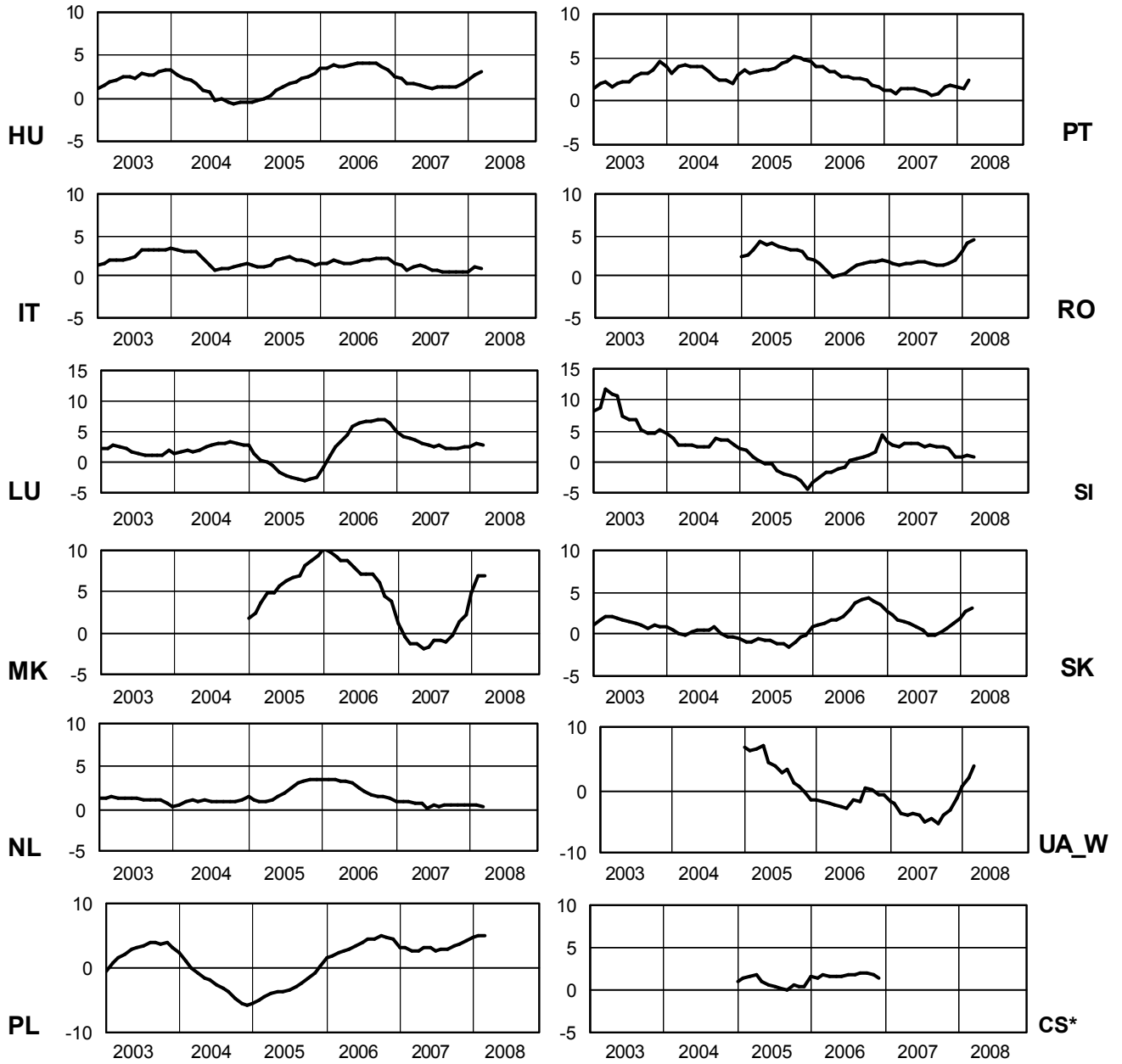
March 2008



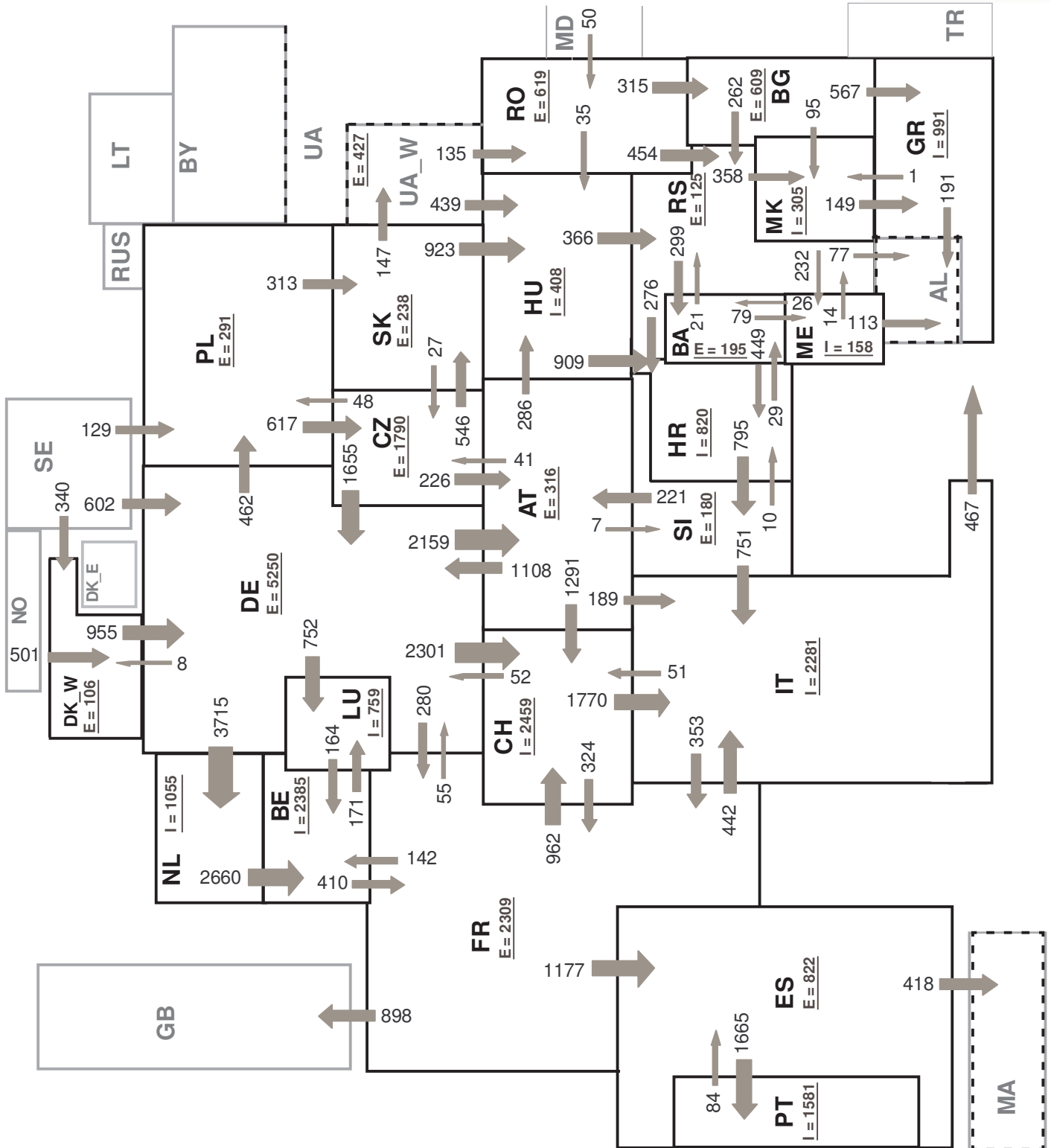
6

Variation of the last 12 months' consumption in %

March 2008



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



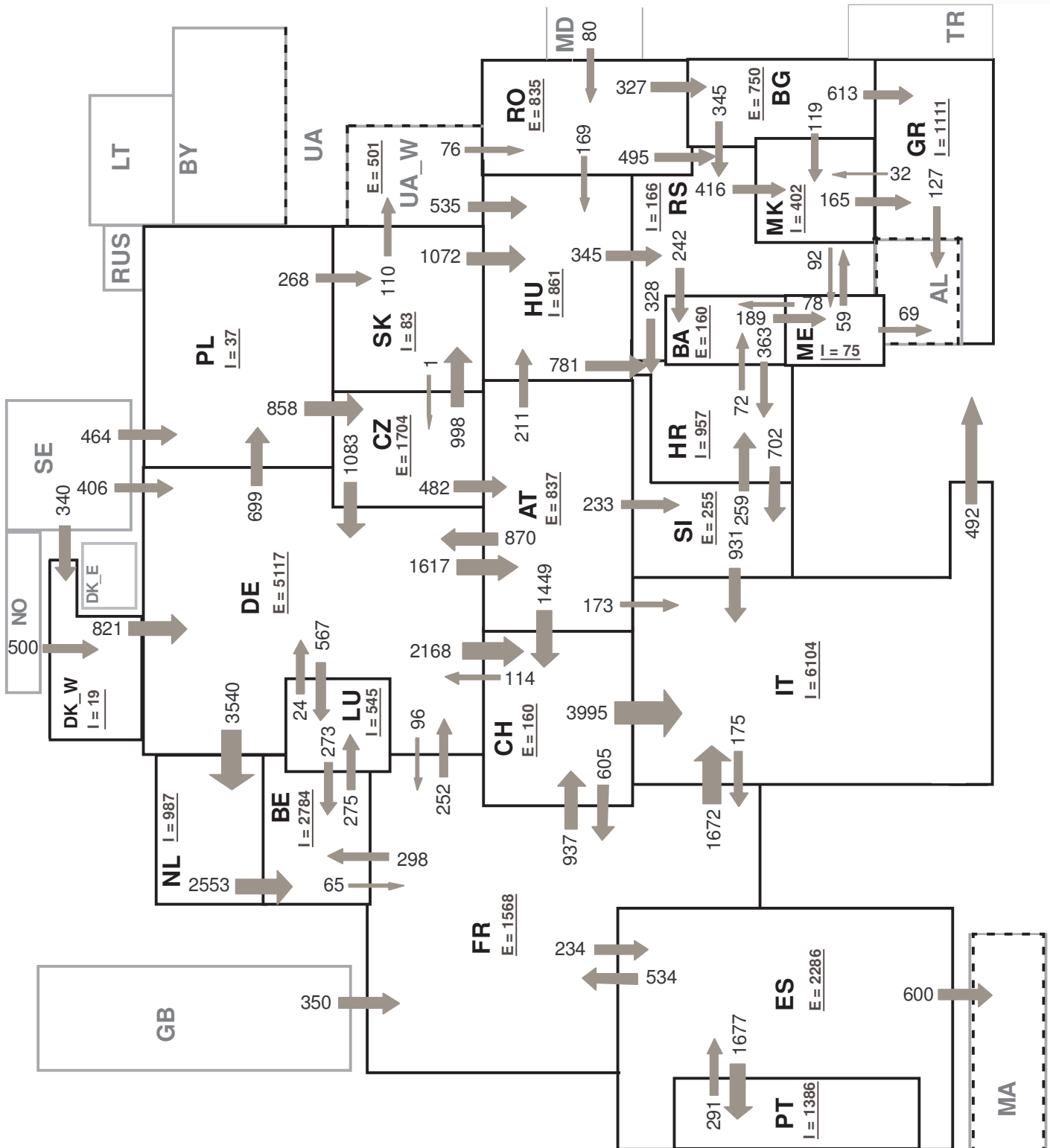
Sum of load flows in MW

UCTE = 35571 MW

Total = 39611 MW

Synchronous operation with UCTE region

I = Import balance
E = Export balance



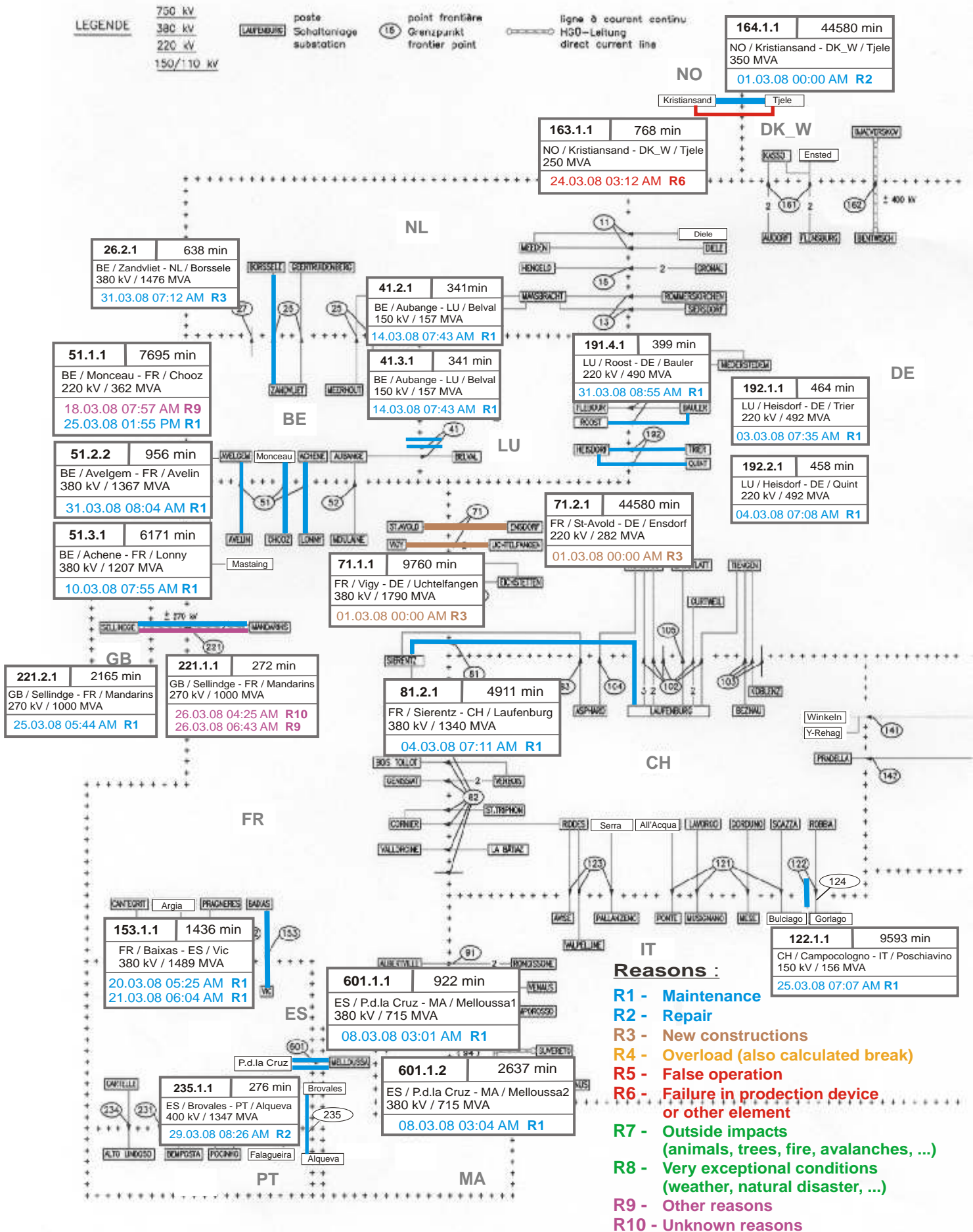
Sum of load flows in MW

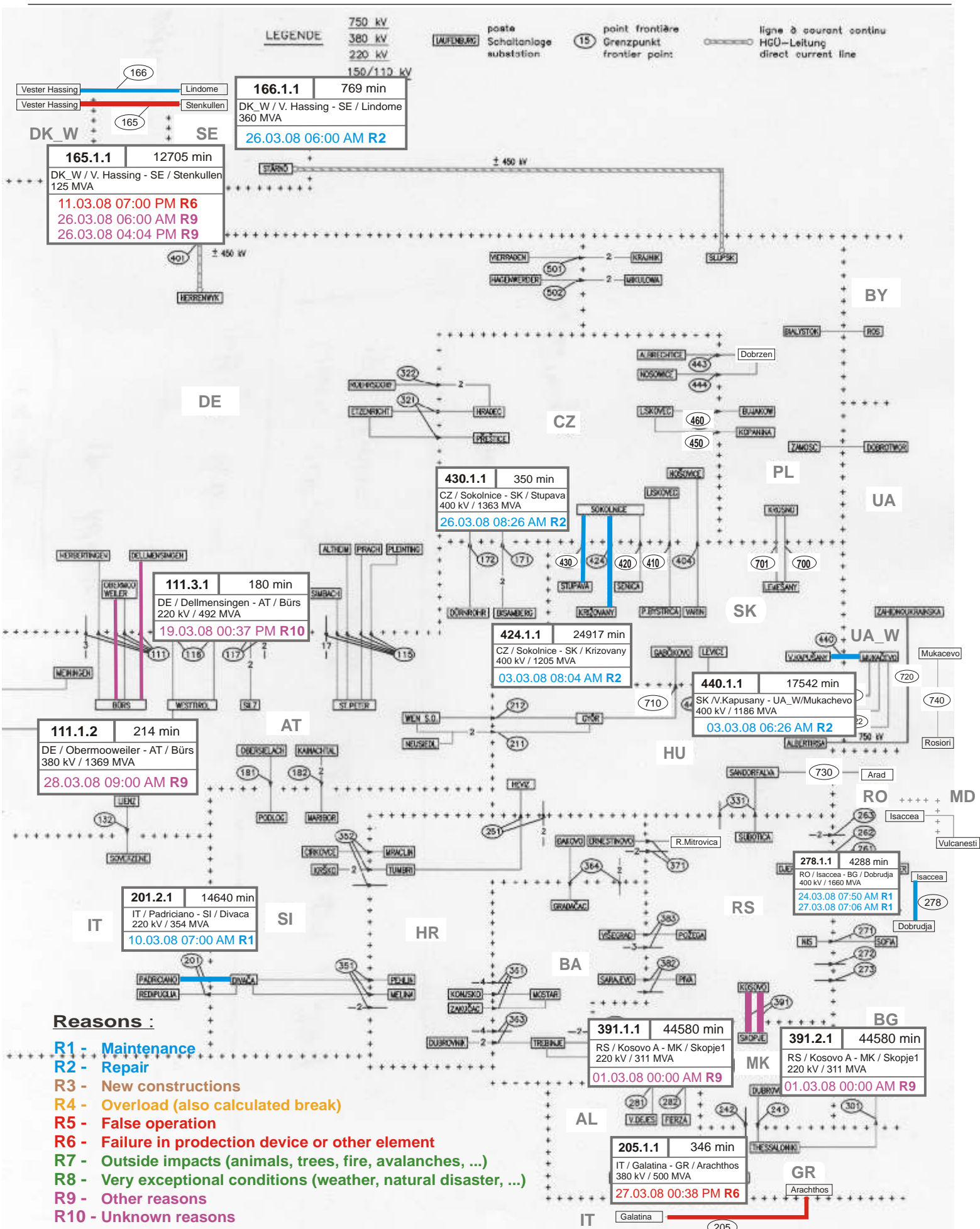
UCTE = 38794 MW

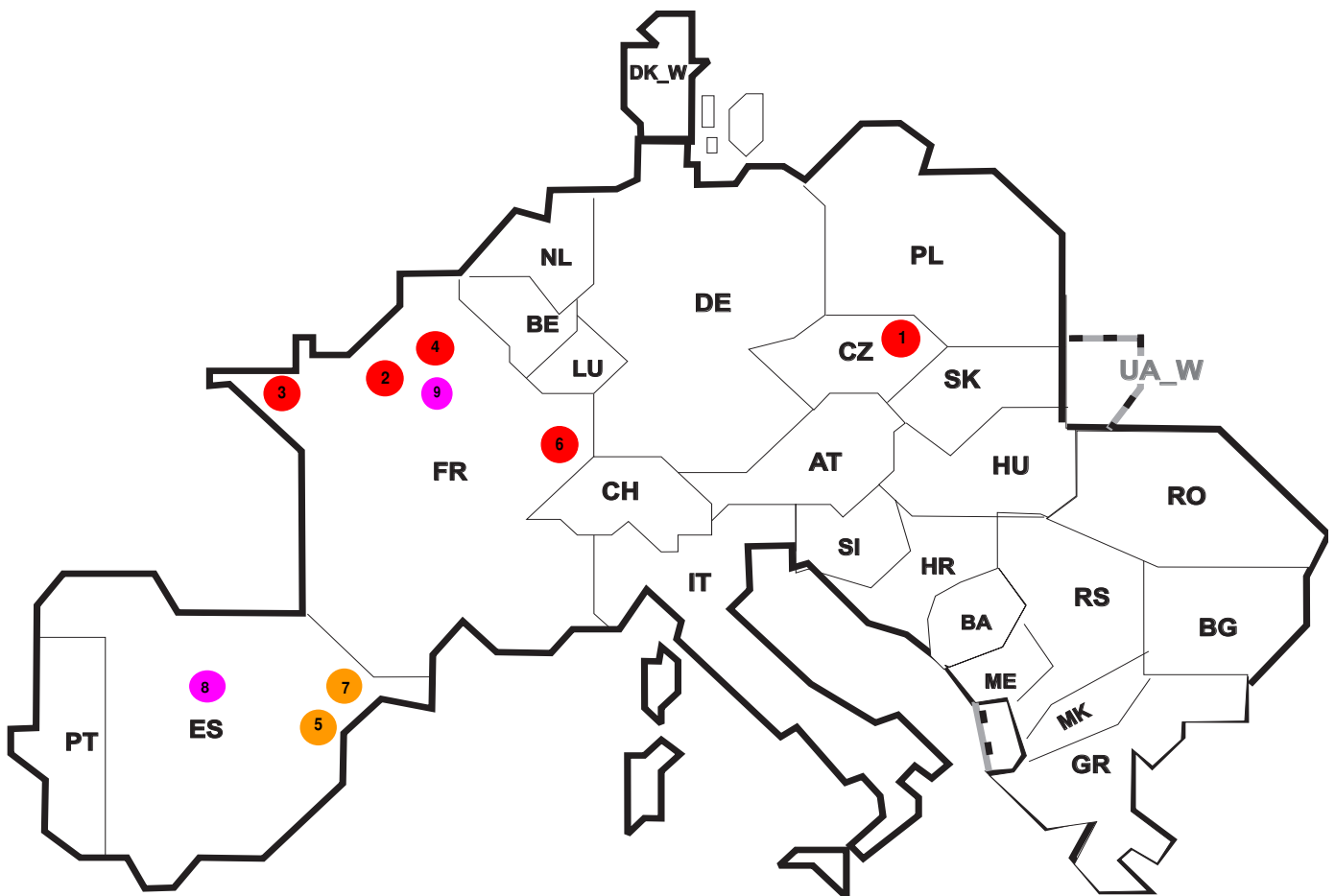
Total = 42451 MW

Synchronous operation with UCTE region

I = Import balance
E = Export balance







Reasons:

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

No	Country	Substation	Reason	Energy not supplied ² [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption ¹
1	CZ	Vitkov	R6	26	172	9	0,208
2	FR	Gatellier	R6	64	69	56	0,069
3	FR	Pontchateau	R5	15	36	25	0,016
4	FR	Alma	R6	6	51	7	0,006
5	ES	Bellicens	R4	1	1915	1	0,002
6	FR	Graffenstaden	R6	2	18	5	0,002
7	ES	Urgell	R4	1	20	3	0,002
8	ES	Otero	R10	1	15	5	0,001
9	FR	Cardinet	R9	1	27	2	0,001

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

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	618625	1032697	1638	536	908	891
BA	319097	192910	278	100	312	100
BE	48419	1772682	0	2395	0	2706
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	1749318	2672697	1223	3706	3540	3425
CZ	1958907	762481	2686	874	2940	1237
DE	5582246	1116554	7652	2047	7371	1591
DK_W	561688	699652	840	963	840	800
ES	1608283	430772	1914	1310	2607	300
FR	6553257	3615706	8006	5726	7632	5992
GR	23573	698236	5	998	0	1099
HR	111736	687608	185	995	17	978
HU	958724	1234685	1320	1716	1221	2074
IT	466226	3869594	871	3157	667	6778
ME	261324	380126	200	367	200	475
MK	1200	177100	100	343	100	425
NL	593577	1503007	1312	2358	1315	2255
PL	189078	340471	300	100	300	464
PT	0	1041655	0	1600	0	1400
RO	571423	75588	689	79	940	112
RS	641869	634560	856	742	992	948
SI	700504	673980	991	830	1156	908
SK	489317	345046	714	394	861	824
UA_W	351125	0	425	0	500	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.

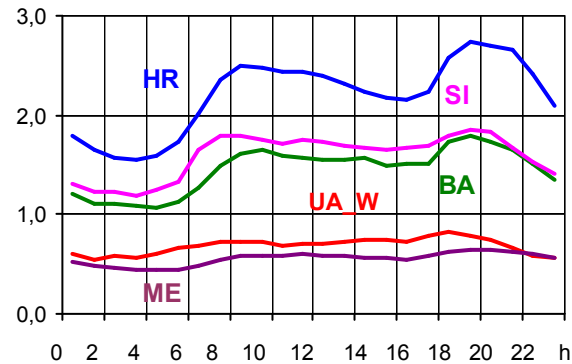
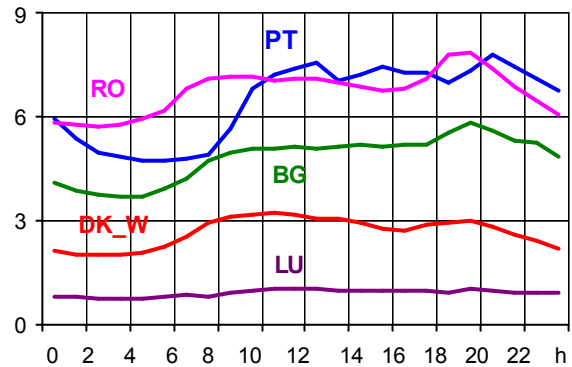
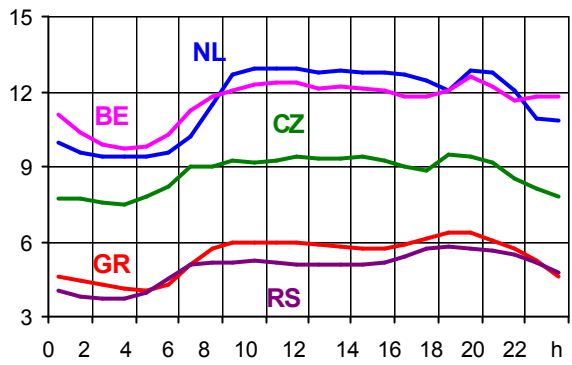
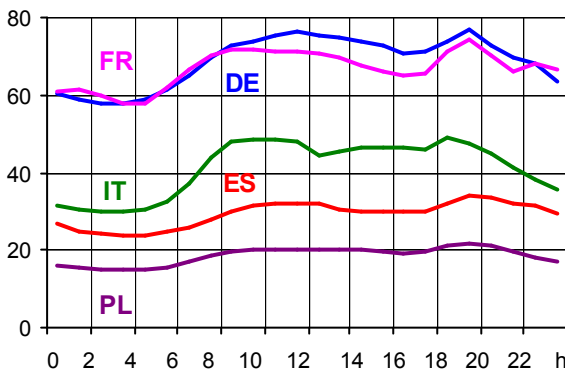
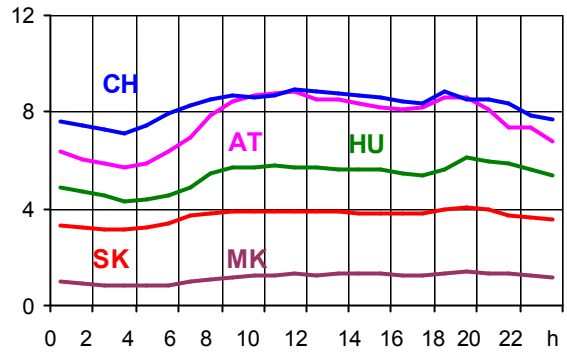
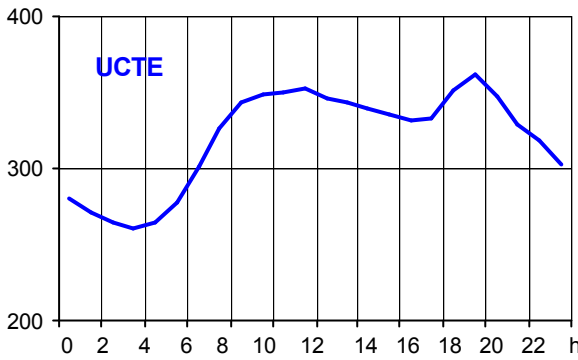
- Export Programs: Sum of all positive values of every hour of every border
 - Import Programs: Sum of all negative values of every hour of every border

- 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 19.03.2008 CET

Values in GW



	Highest load MW	var.% ¹	Load representativity %
AT	8876	n.a.	100
BA	1793	8,7	100
BE ²	12636	0,9	100
BG	5829	7,1	100
CH	8948	-3,1	100
CZ	9493	4,3	100
DE	76982	-0,8	91
DK_W	3204	-1,5	100
ES	34000	-15,9	98
FR	74083	0,1	100
GR	6382	-13,7	100
HR	2738	4,3	100
HU	6135	4,1	100
IT	48952	-2,8	100
LU	1052	15,4	100
ME	651	6,4	100
MK	1369	8,8	100
NL	12948	-18,6	100
PL ³	21652	5,4	100
PT	7768	-1,0	97
RO	7826	34,3	100
RS	5834	-13,4	100
SI	1856	-12,5	100
SK	4036	1,4	100
UCTE	361661	-1,3	
UA_W	822	0,9	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 Operational data

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