



# February 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	2387	2135	0	0	566	5088 <sup>1</sup>	987	196	5879	6,5	67888	2,7
BA	0	749	369	0	0	0	1118	-120	0	998	12,1	11348	3,8
BE <sup>2</sup>	3562	2689	135	307	64	0	6693 <sup>1</sup>	1224	130	7787	4,4	90333	0,5
BG	1336	1781	245	0	0	0	3362	0	67	3295	10,9	34163	-0,5
CH	2252	176	2243	96	2	0	4767 <sup>1</sup>	969	125	5611	5,5	63559	1,5
CZ	2275	4632	254	40	23	0	7201 <sup>1</sup>	-1284	37	5880	6,3	65306	3,0
DE	12433	33498	1772	6202	4304	0	53905 <sup>1</sup>	-3367	670	49868	4,4	557593	0,0
DK_W	0	1345	3	814	670	0	2162 <sup>1</sup>	-278	0	1884	1,1	21815	0,4
ES	5116	15497	1264	2311	2032	0	24188 <sup>1</sup>	-656	411	23120	7,1	269907	3,7
FR	38899	6134	4430	764	419	0	50227	-4310	691	45226	6,5	484865	3,2
GR	0	3741	293	135	115	0	4169 <sup>1</sup>	471	96	4544	7,1	56276	4,8
HR	0	599	372	4	3	0	975 <sup>1</sup>	581	12	1544	9,8	17644	6,3
HU	1286	1862	0	0	0	0	3148 <sup>1</sup>	382	0	3530	7,3	41665	2,9
IT	0	21919	2595	900	471	0	25414	3412	568	28258	4,9	341339	1,3
LU	0	249	76	14	6	0	339	340	89	590	8,5	6835	3,1
ME	0	120	172	0	0	0	292	133	0	425	3,2	4697	n.a.
MK	0	483	93	0	0	0	576 <sup>1</sup>	215	0	791	7,9	8736	6,8
NL	338	7707	0	625	356	0	8670 <sup>1</sup>	1058	0	9728	0,6	117036	0,7
PL <sup>3</sup>	0	12099	236	100	89	0	12435 <sup>1</sup>	-131	65	12239	3,2	143035	4,8
PT	0	2576	425	617	479	0	3618 <sup>1</sup>	776	93	4301	-0,2	51527	1,5
RO	865	3168	1352	0	0	0	5385 <sup>1</sup>	-580	4	4801	8,7	54938	4,1
RS	0	2802	778	0	0	0	3580	170	40	3710	9,0	40686	n.a.
SI	483	464	151	0	0	0	1098	-27	0	1071	0,7	13419	1,1
SK	1387	728	341	27	0	0	2483 <sup>1</sup>	-38	26	2419	5,3	27784	2,7
UCTE	70232	127405	19734	12956	9033	566	230893 <sup>1</sup>	-73	3320	227499	6,3	2592394	3,1
UA_W	0	732	11	0	0	0	743 <sup>1</sup>	-337	0	406	6,0	4331	1,9

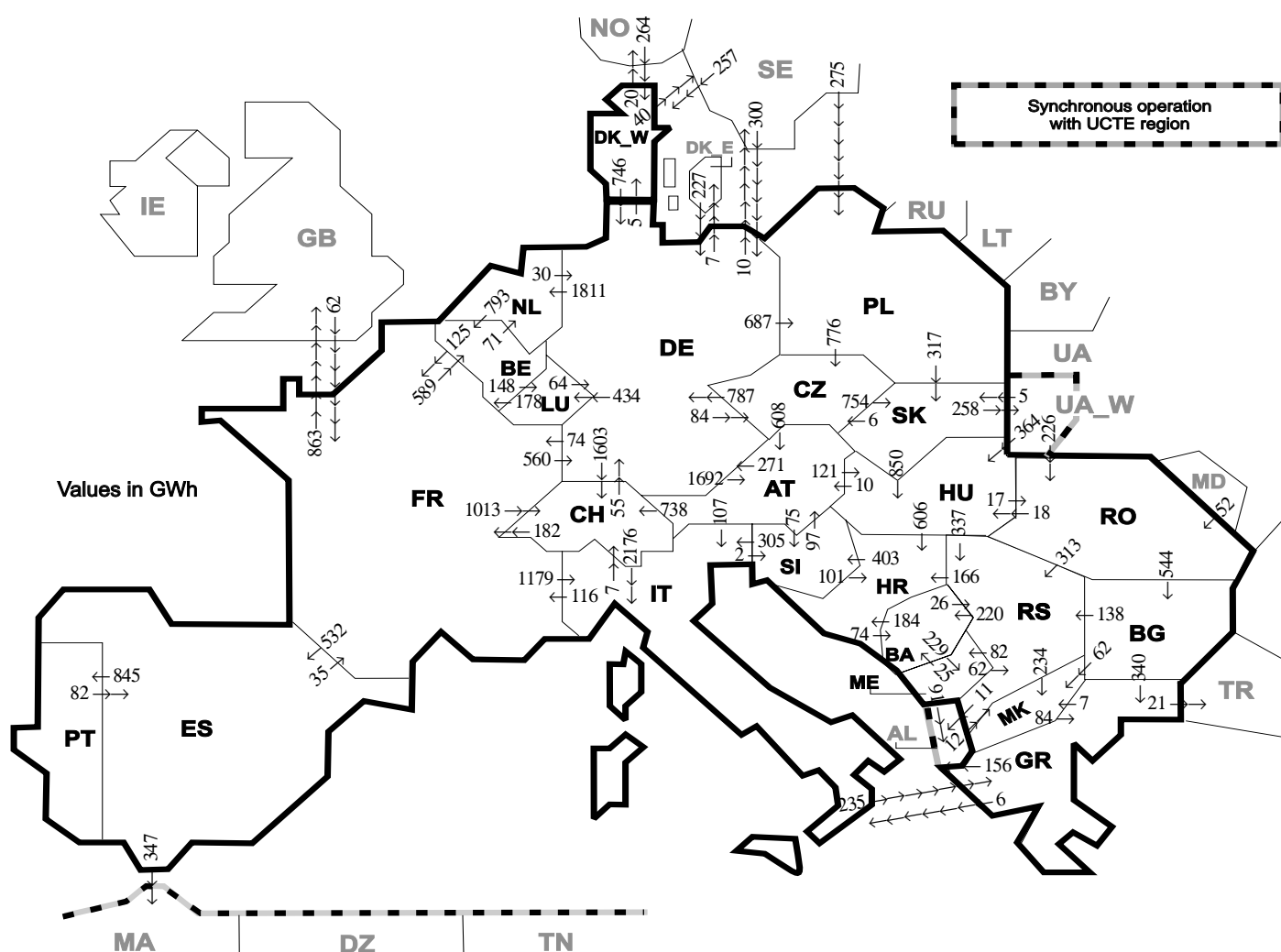
<sup>1</sup> Including deliveries from industry

<sup>2</sup> The reported figures are best estimates based on actual measurements and extrapolations

<sup>3</sup> 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	95	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 <sup>1</sup>	Sum export	
AT	-	-	-	-	738	0	271	-	-	-	-	-	121	107	-	-	-	-	-	-	-	-	75	-	-	-	1312	
BA	-	-	-	-	-	-	-	-	-	-	184	-	-	-	-	229	-	-	-	-	-	26	-	-	-	-	439	
BE	-	-	-	-	-	-	-	-	-	125	-	-	-	-	148	-	-	71	-	-	-	-	-	-	-	-	344	
BG	-	-	-	-	-	-	-	-	-	-	340	-	-	-	-	-	-	-	-	-	0	138	-	-	-	0	540	
CH	0	-	-	-	-	-	55	-	-	182	-	-	-	2176	-	-	-	-	-	-	-	-	-	-	-	-	2413	
CZ	608	-	-	-	-	-	787	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	754	-	-	-	2149	
DE	1692	-	-	-	1603	84	-	5	74	-	-	-	-	434	-	-	-	1811	687	-	-	-	-	-	-	17	6407	
DK_W	-	-	-	-	-	-	746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	806	
ES	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	845	-	-	-	-	-	-	347	1227
FR	-	-	589	-	1013	-	560	-	532	-	-	-	-	1179	-	-	-	-	-	-	-	-	-	-	-	863	4736	
GR	-	-	-	0	-	-	-	-	-	-	-	-	-	6	-	-	7	-	-	-	-	-	-	-	-	177	190	
HR	-	74	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	0	403	-	-	-	477	
HU	10	-	-	-	-	-	-	-	-	-	-	606	-	-	-	-	-	-	-	-	17	337	0	0	-	-	970	
IT	0	-	-	-	7	-	-	-	-	116	235	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	360	
LU	-	-	178	-	-	-	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	242	
ME	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	-	-	-	91	178	
MK	-	-	-	0	-	-	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	84	
NL	-	-	793	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	823	
PL	-	-	-	-	-	776	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	317	-	-	0	1093	
PT	-	-	-	-	-	-	-	-	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	
RO	-	-	-	544	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-	-	-	0	0	875	
RS	-	220	-	0	-	-	-	-	-	-	-	166	0	-	-	82	234	-	-	-	0	-	-	-	-	11	713	
SI	97	-	-	-	-	-	-	-	-	-	101	-	305	-	-	-	-	-	-	-	-	-	-	-	-	-	503	
SK	-	-	-	-	-	6	-	-	-	-	-	-	850	-	-	-	-	0	-	-	-	-	-	-	258	-	1114	
UA_W	-	-	-	-	-	-	-	-	-	-	-	-	364	-	-	-	-	-	-	-	226	-	5	-	-	-	595	
Other III <sup>1</sup>	-	-	-	0	-	-	527	521	0	62	0	-	-	-	-	0	-	-	275	-	52	12	-	-	-	-	1449	
<b>Sum imp</b>	<b>2407</b>	<b>319</b>	<b>1560</b>	<b>544</b>	<b>3361</b>	<b>866</b>	<b>3040</b>	<b>526</b>	<b>614</b>	<b>594</b>	<b>659</b>	<b>1057</b>	<b>1353</b>	<b>3773</b>	<b>582</b>	<b>311</b>	<b>303</b>	<b>1882</b>	<b>962</b>	<b>845</b>	<b>295</b>	<b>888</b>	<b>480</b>	<b>1076</b>	<b>258</b>	<b>1566</b>	<b>30121</b>	

Sum of physical energy flows between UCTE countries = 26253GWh Total physical energy flows = 30121GWh

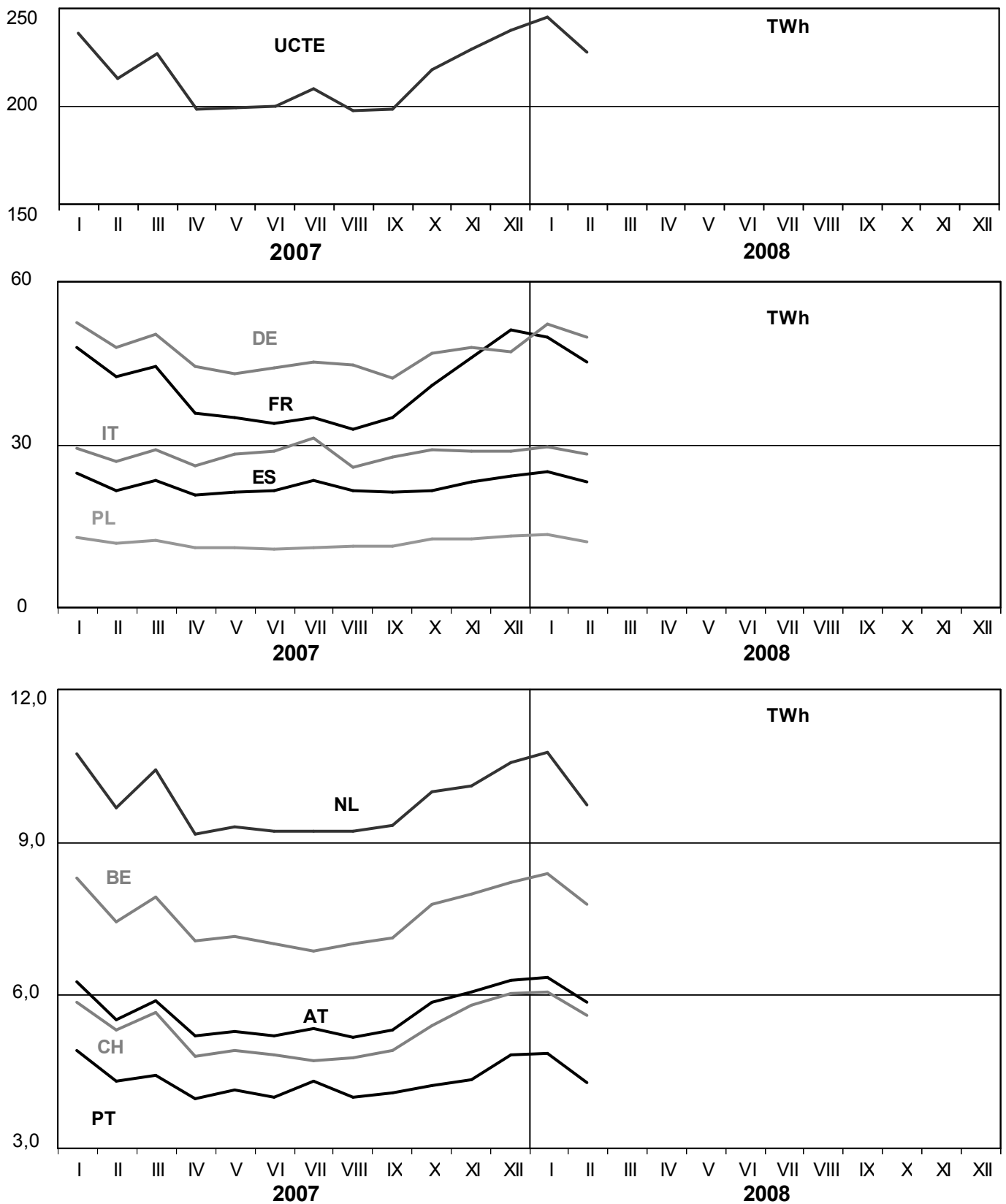
<sup>1</sup> Other III: Albania, Belarus, Denmark East, Great Britain, Morocco, Republic of Moldavia, Norway, Sweden, Republic of Turkey and Ukraine

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

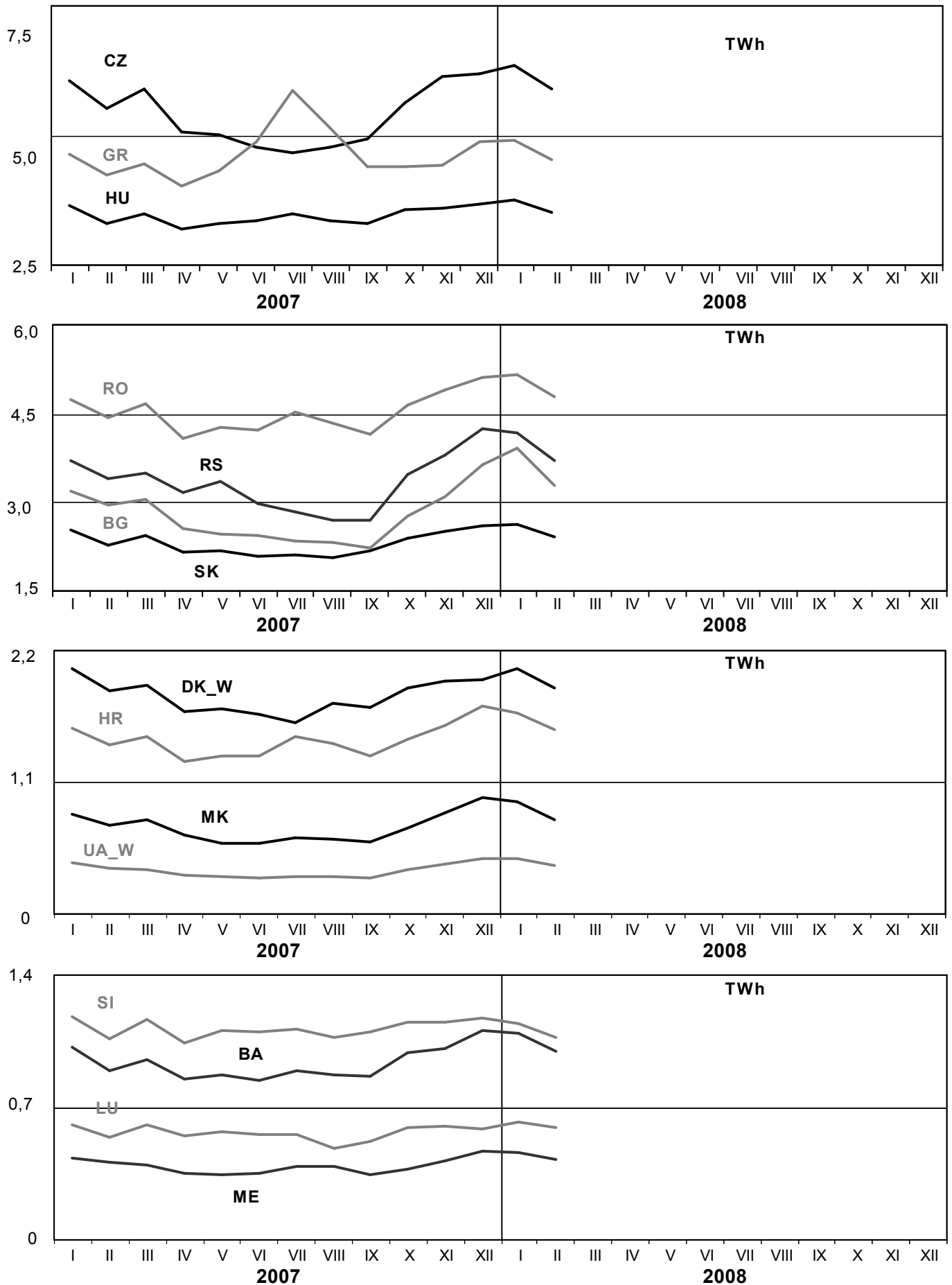
February 2008



# 3

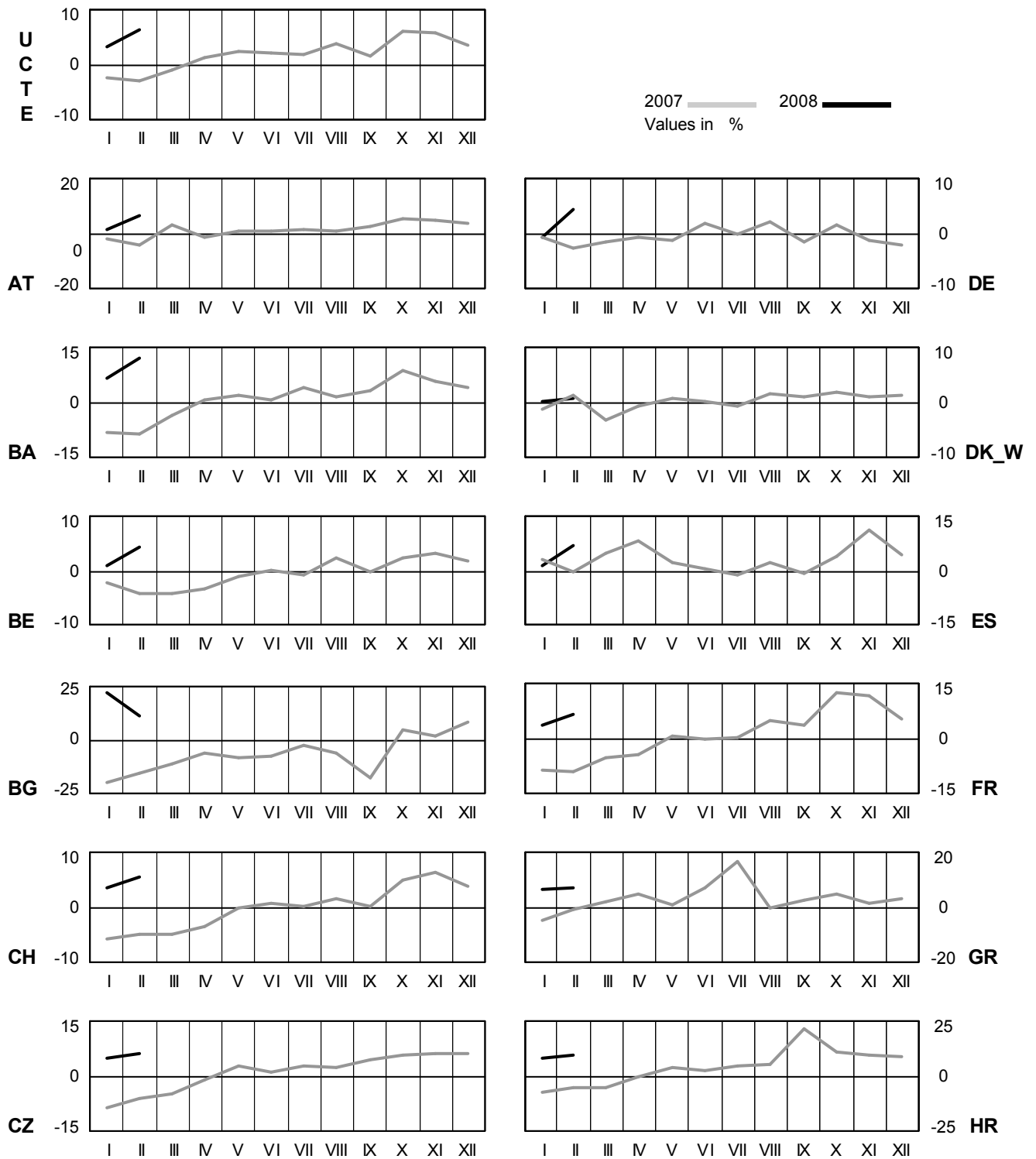
## Monthly consumption

February 2008



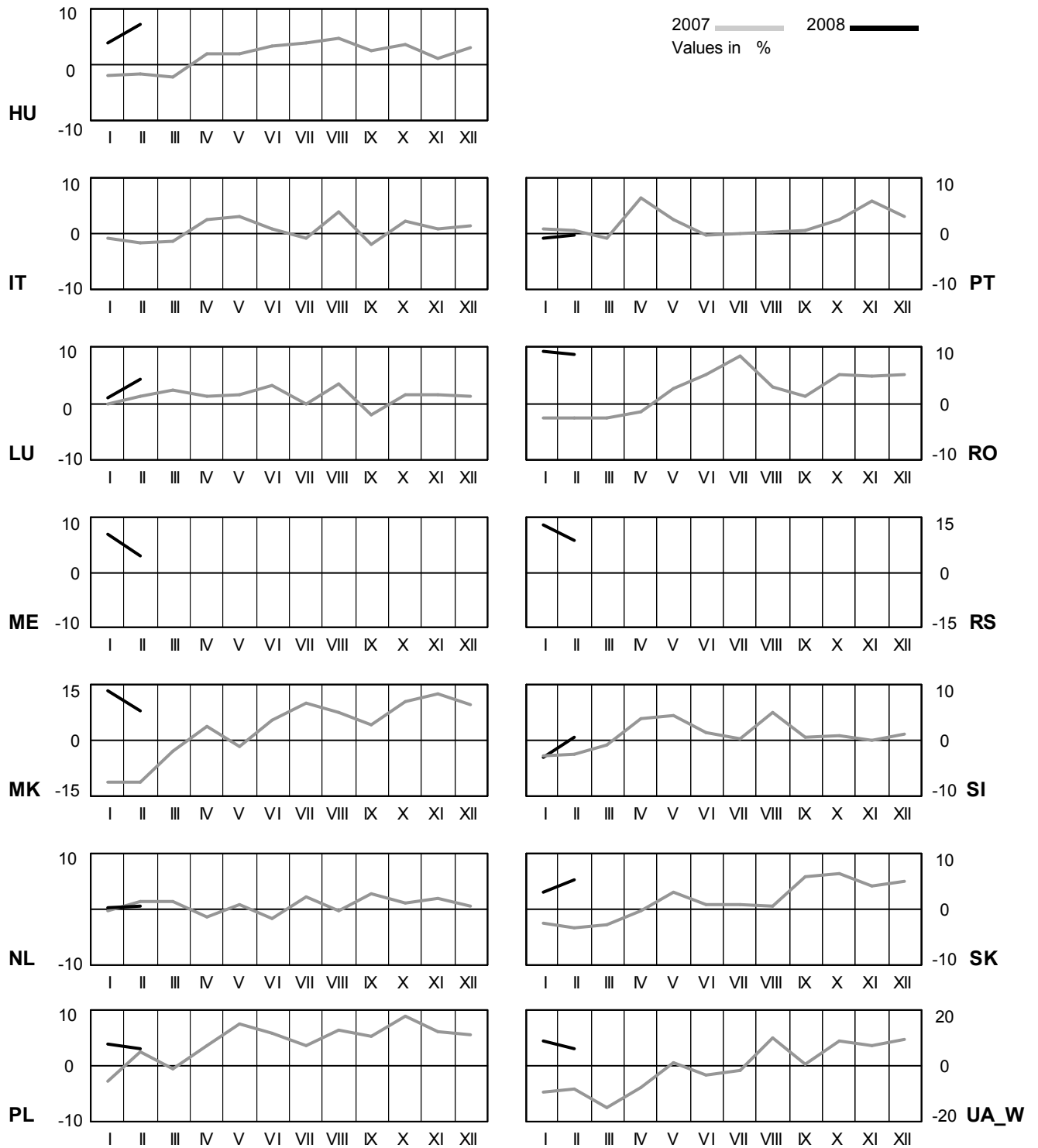
# 4 Monthly consumption variation

February 2008



# 4 Monthly consumption variation

February 2008

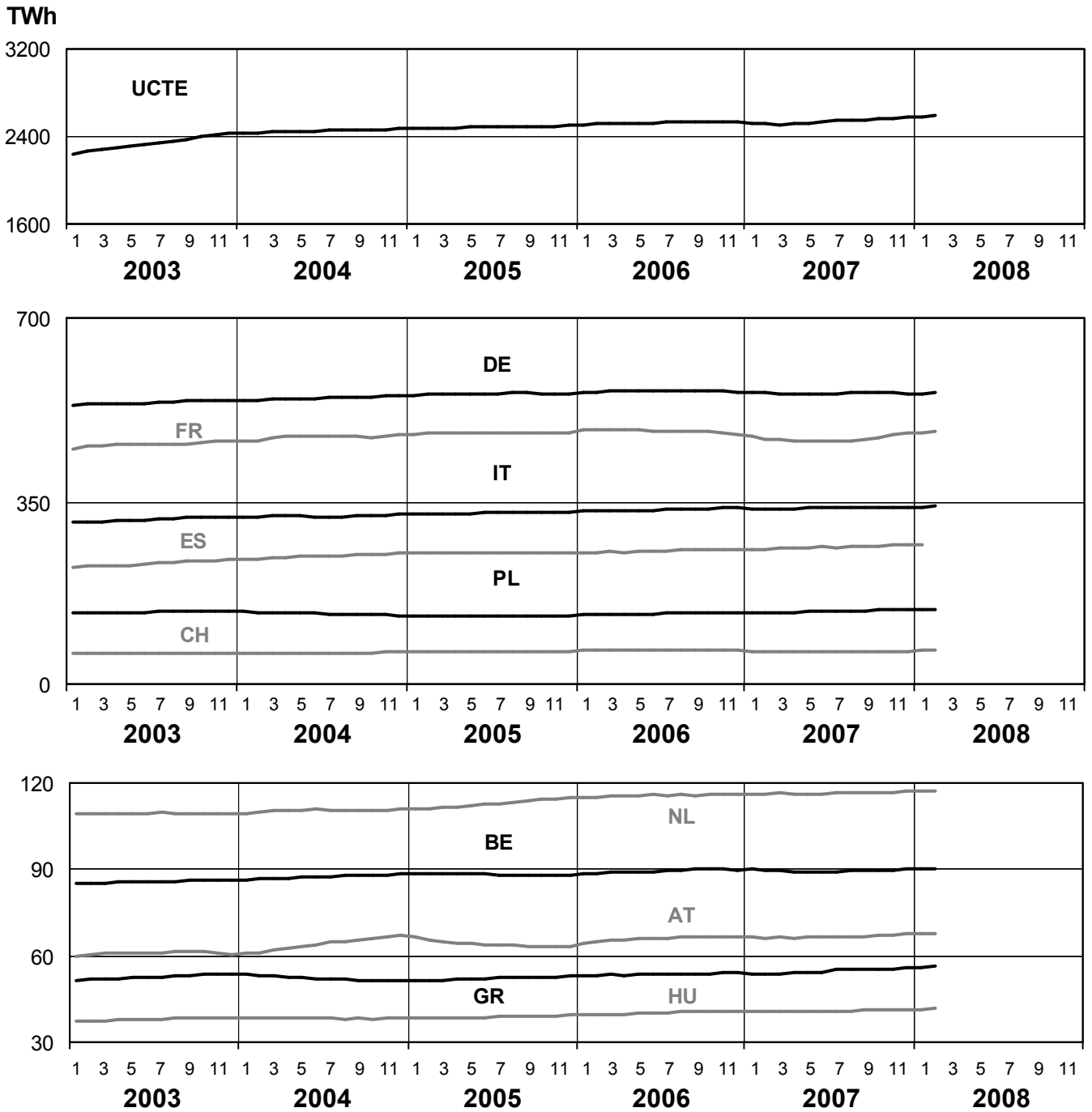




# 5

## Consumption of the last 12 months

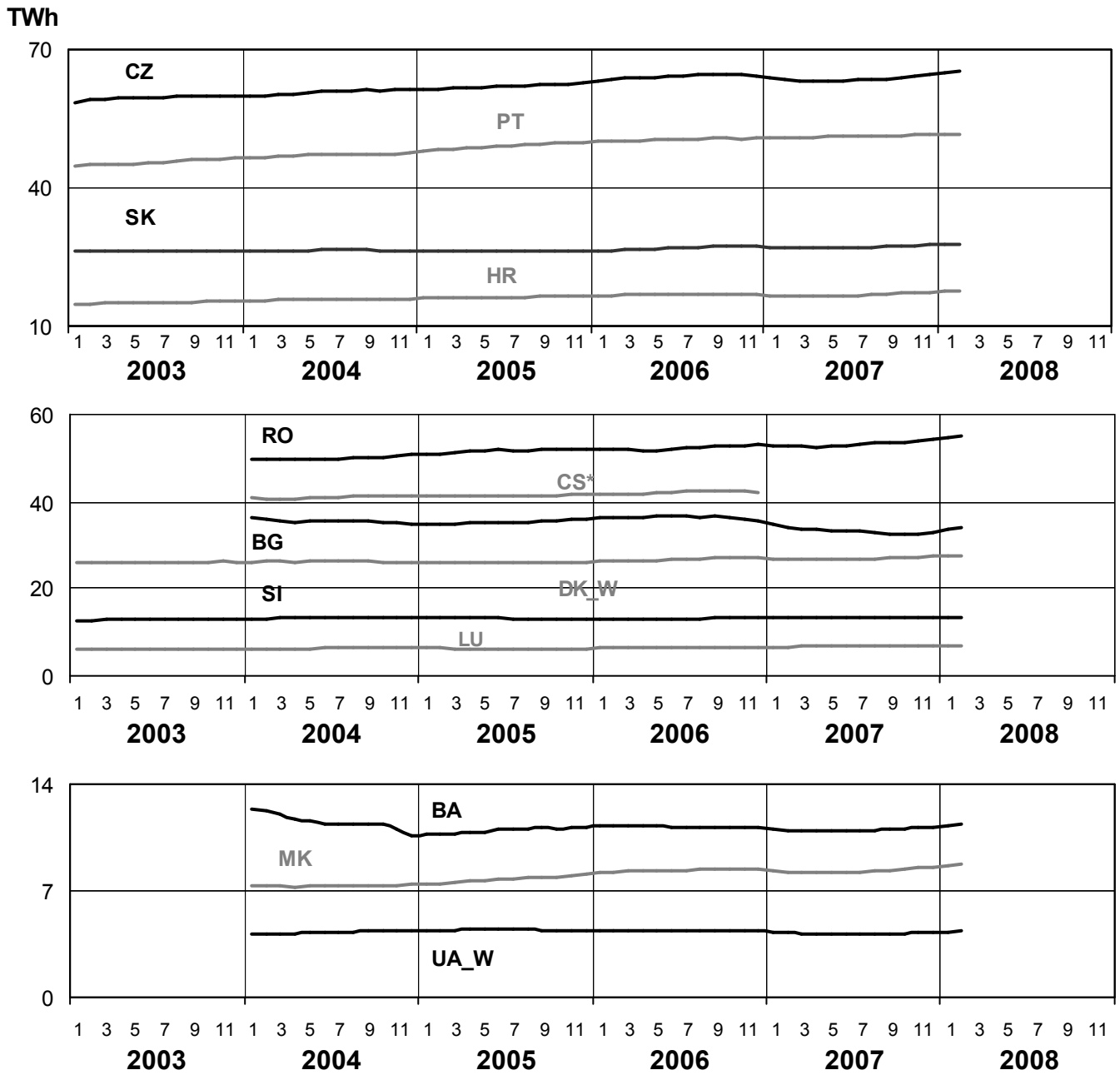
February 2008



# 5

## Consumption of the last 12 months

February 2008

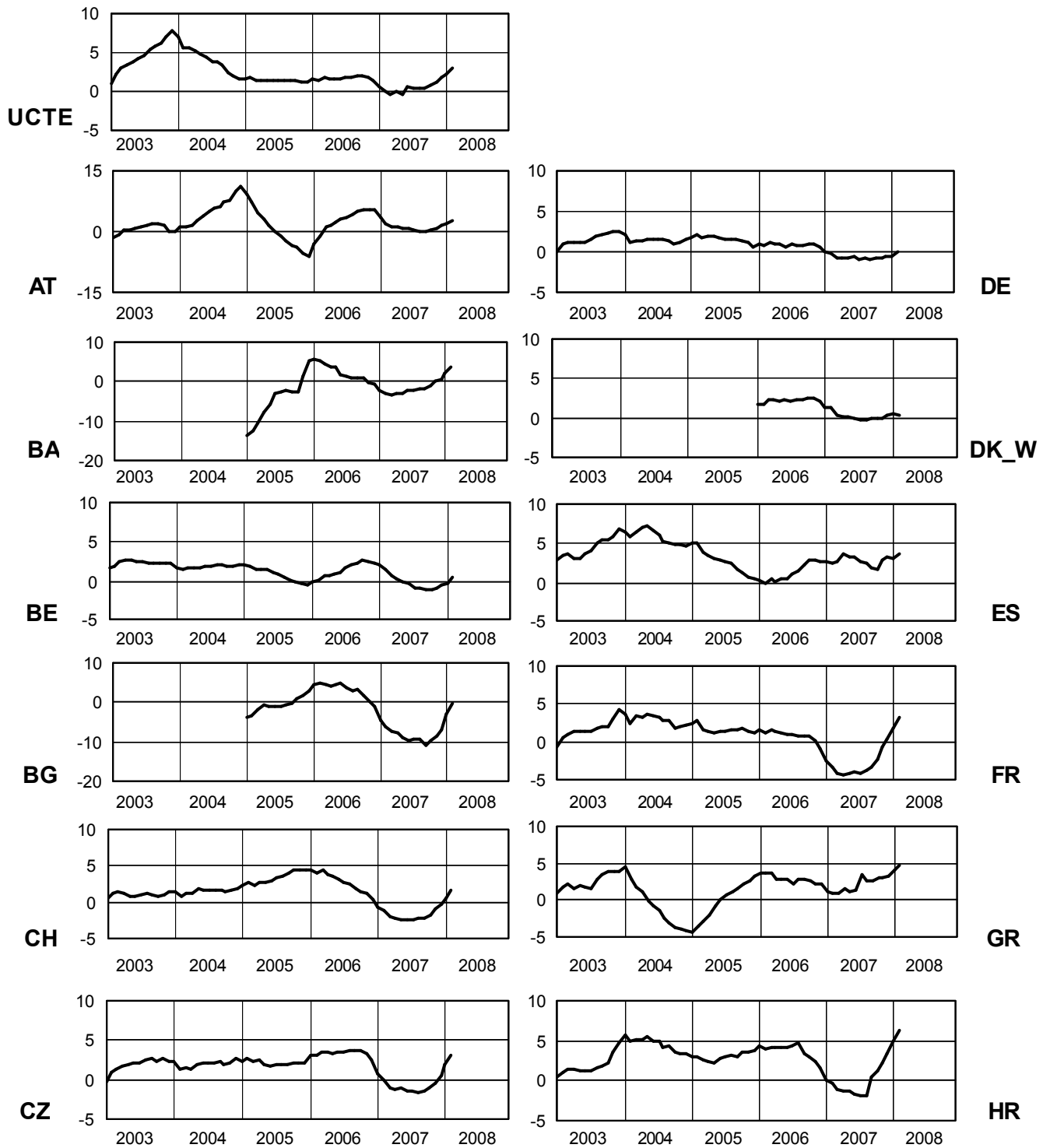


\* CS consumption values until December 2006; from 2007 on ME and RS as separate countries

# 6

## Variation of the last 12 months' consumption in %

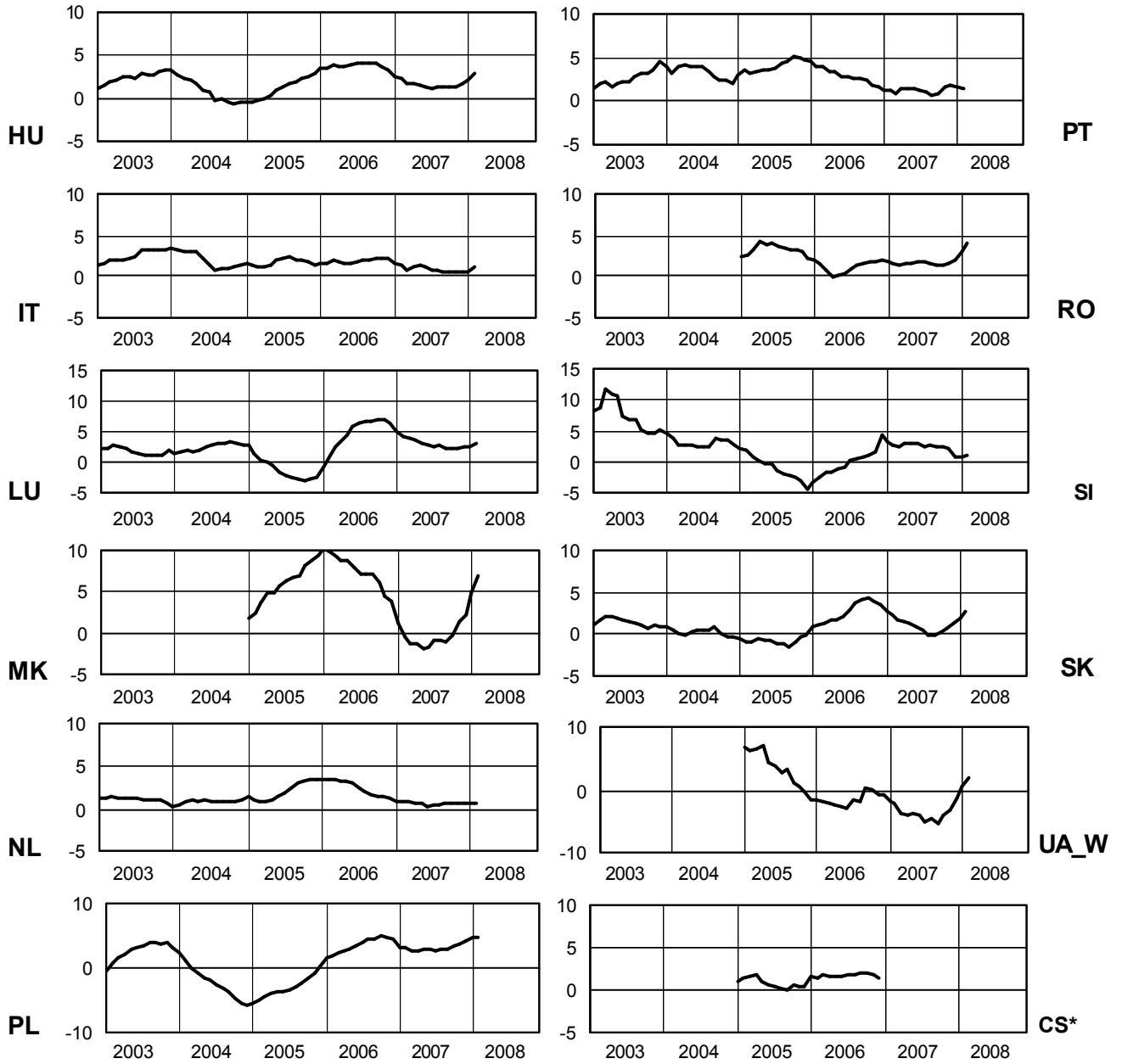
February 2008



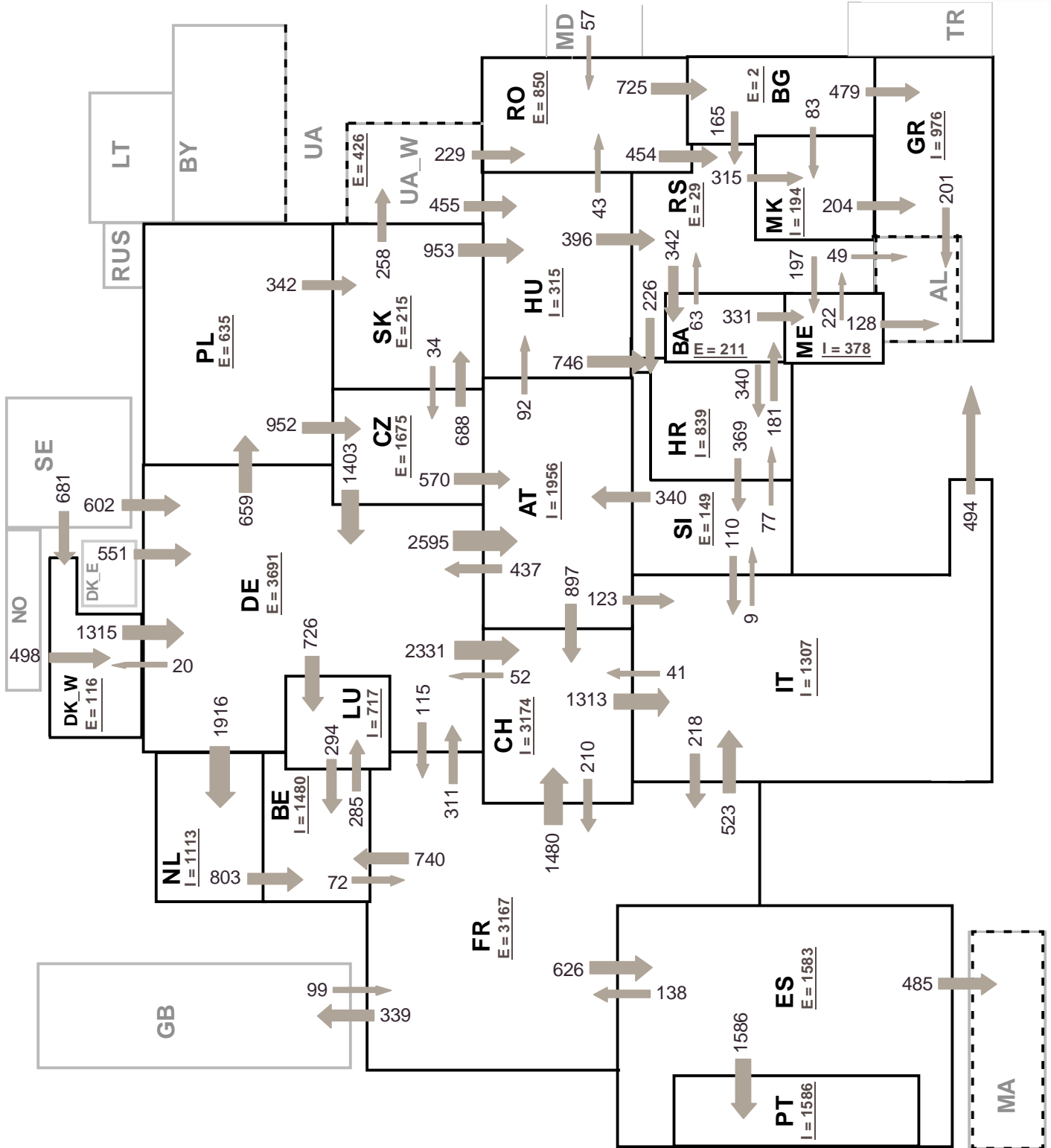
# 6

## Variation of the last 12 months' consumption in %

February 2008



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



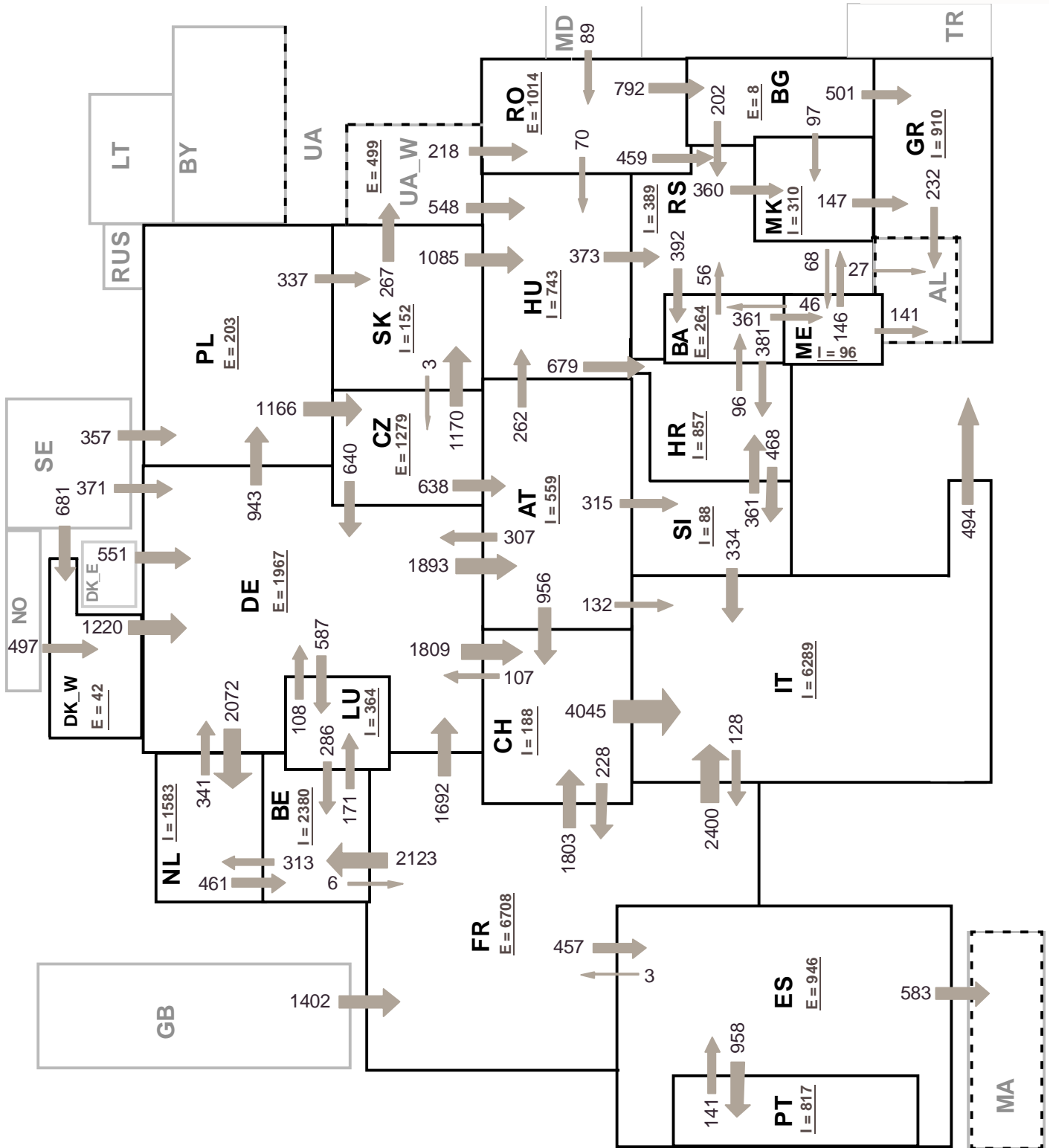
Sum of load flows in MW

UCTE = 31571 MW

Total = 36203 MW

Synchronous operation with UCTE region

I = Import balance  
E = Export balance



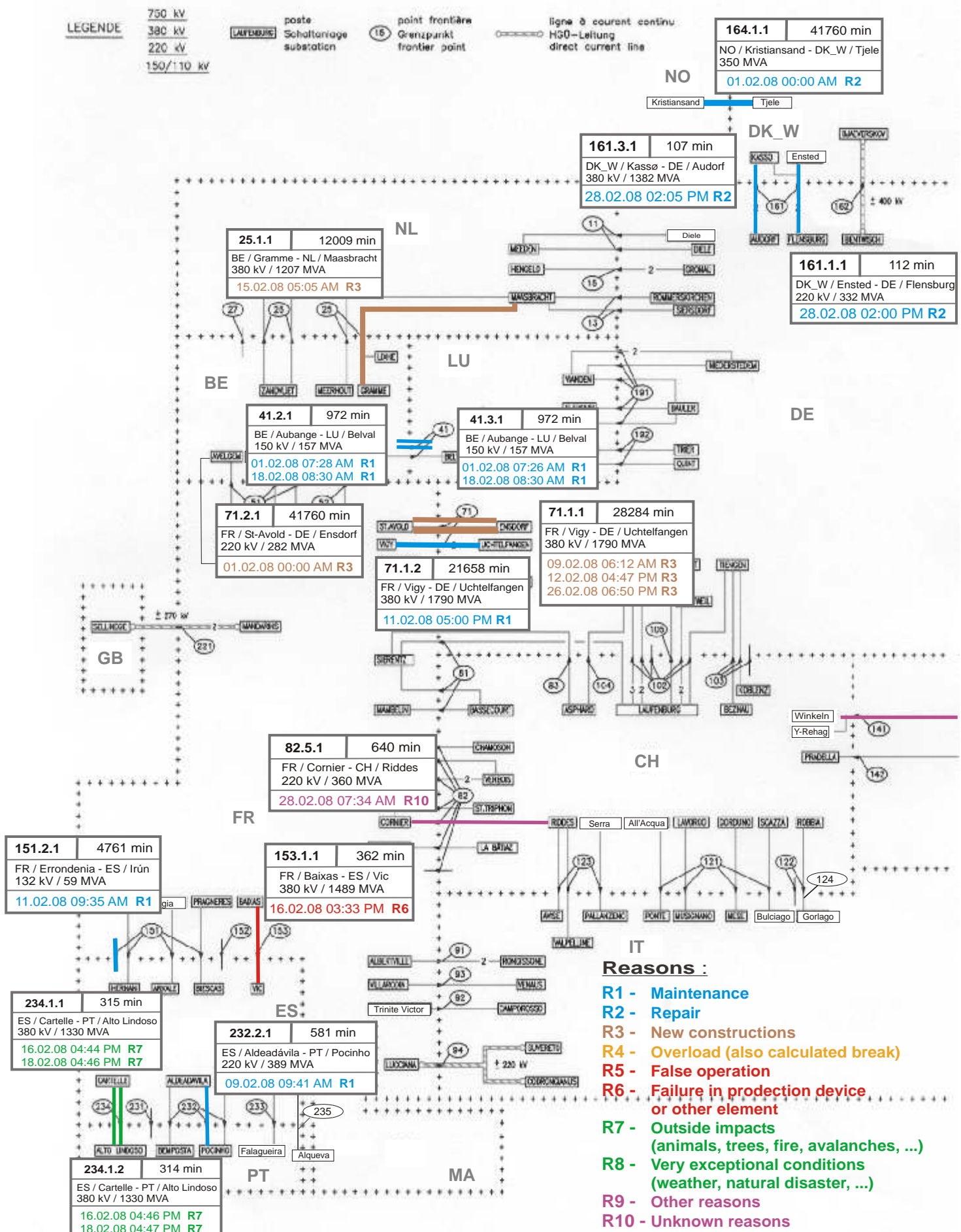
Sum of load flows in MW

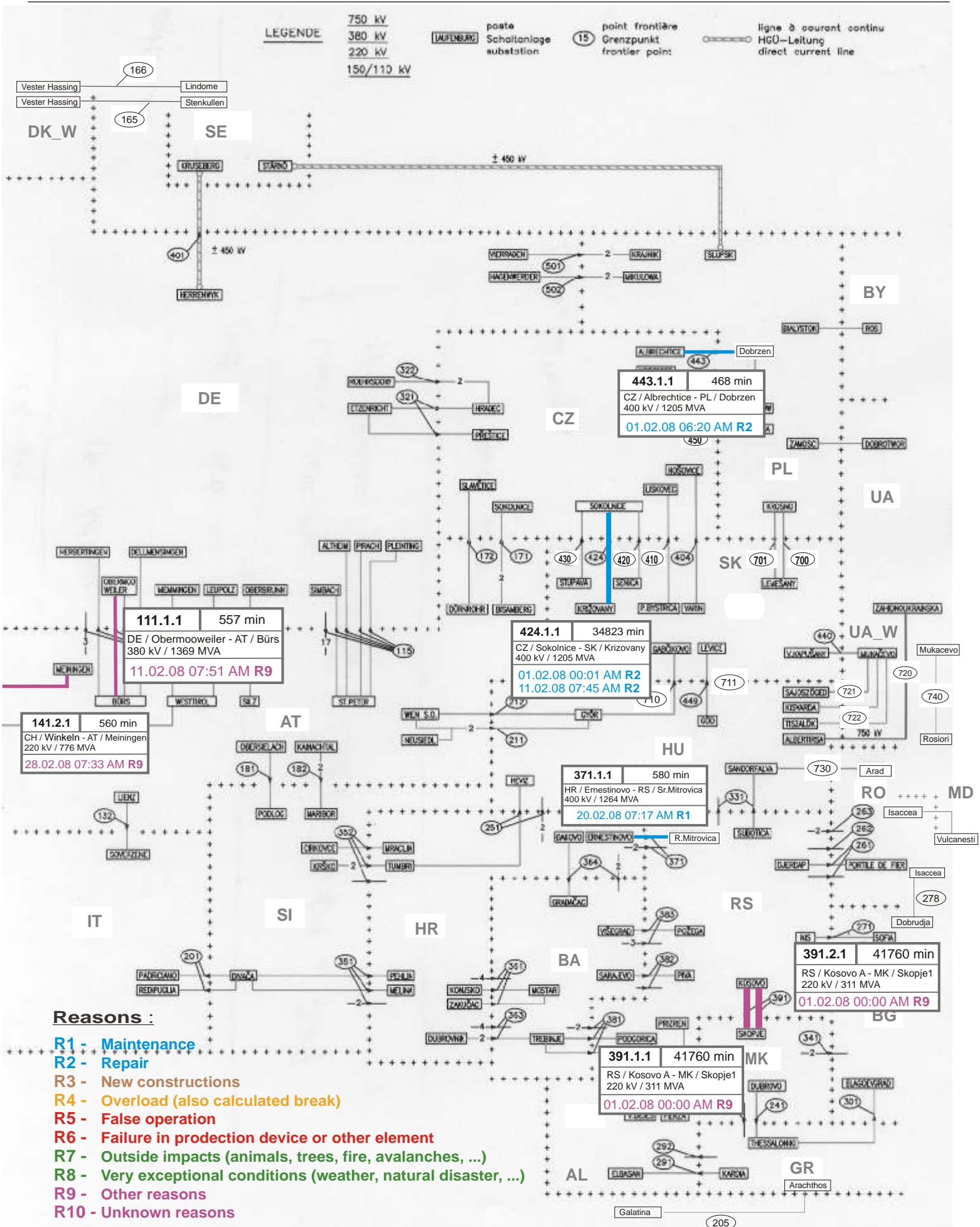
UCTE = 38189 MW

Total = 44153 MW

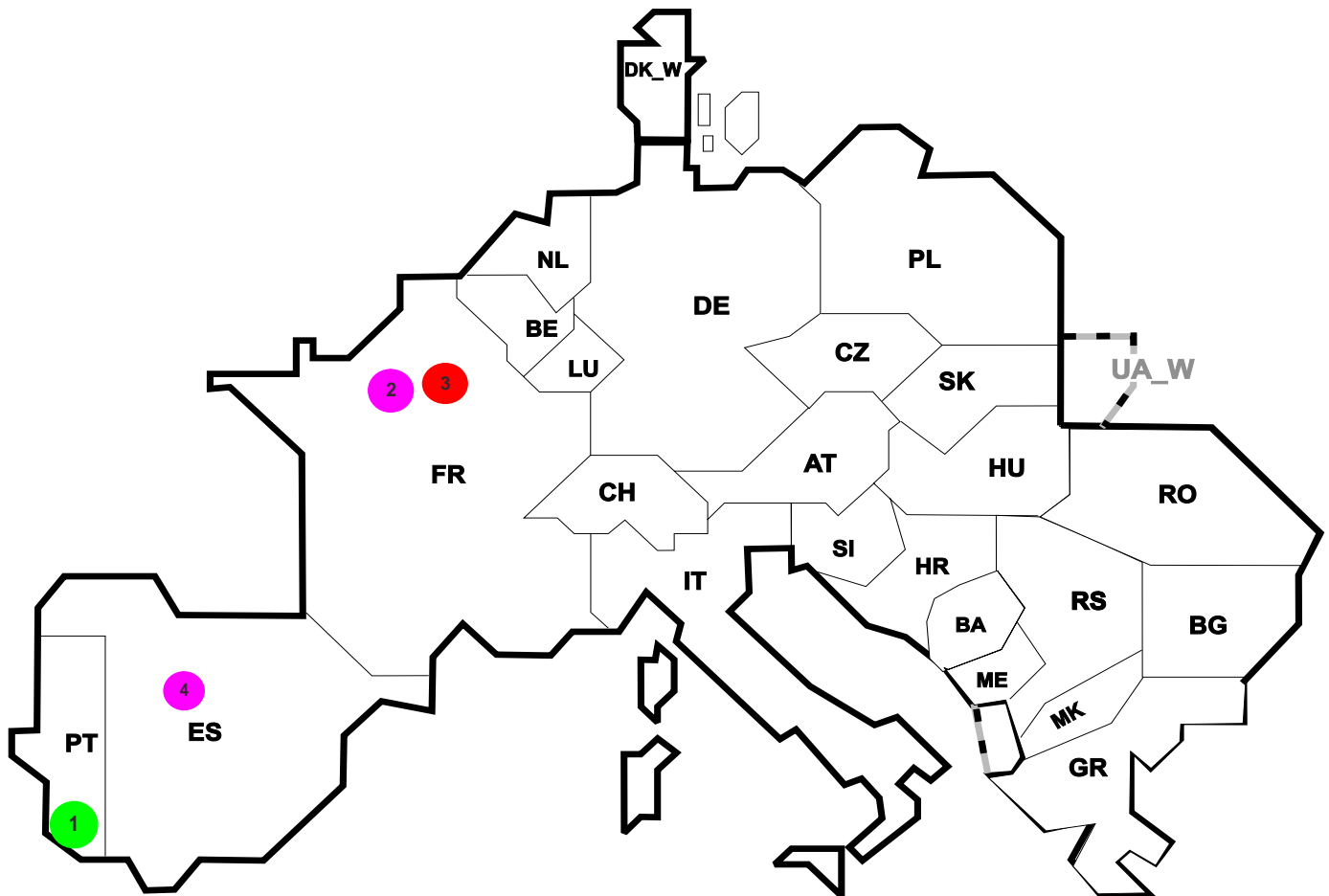
Synchronous operation with UCTE region

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, ...)  
(animals, trees, fire, avalanches, ...)

**R8** Very exceptional conditions  
(weather, natural disaster, ...)

**R9** Other reasons

**R10** Unknown reasons

No	Country	Substation	Reason	Energy not supplied <sup>2</sup> [ MWh ]	Total loss of power [ MW ]	Restoration time [ min ]	Equivalent time of interruption <sup>1</sup>
1	PT	Estoi	R7	6	0	4	0,058
2	FR	Fallou	R9	9	58	9	0,010
3	FR	Les Loges	R6	5	19	15	0,005
4	ES	Otero	R10	1	620	23	0,002

<sup>1</sup> ( 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	734610	991376	2056	687	808	1430
BA	379418	258337	311	100	341	100
BE	165955	1354871	0	1516	350	2611
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	1700972	2667508	395	3599	3540	3824
CZ	1926155	627173	2586	849	2706	1449
DE	4651984	982306	5721	1529	3651	532
DK_W	534574	783628	1180	1316	1180	1181
ES	1242946	608461	235	750	1546	587
FR	6737001	2543115	6787	3435	10222	3454
GR	41161	510294	12	917	12	881
HR	62130	641549	38	884	82	958
HU	1005764	1388527	1565	1877	1297	2216
IT	359911	3772296	762	2075	622	6914
ME	237575	377508	166	554	155	493
MK	200	214800	40	228	20	351
NL	352058	1410818	763	1864	234	1801
PL	329520	285422	500	0	500	357
PT	7165	784610	0	1600	0	839
RO	679439	101530	974	110	1148	133
RS	486209	560207	683	652	700	925
SI	575322	553495	802	652	803	837
SK	757018	637979	985	682	1182	1214
UA_W	332538	1090	430	5	502	5

- 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.

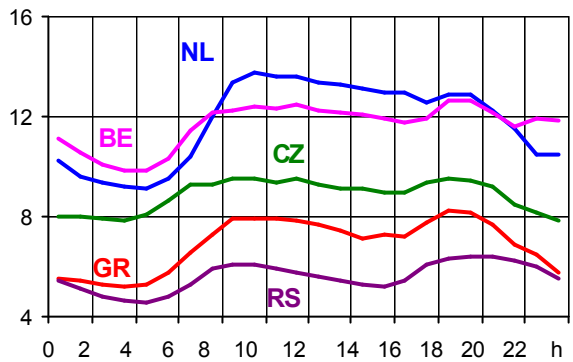
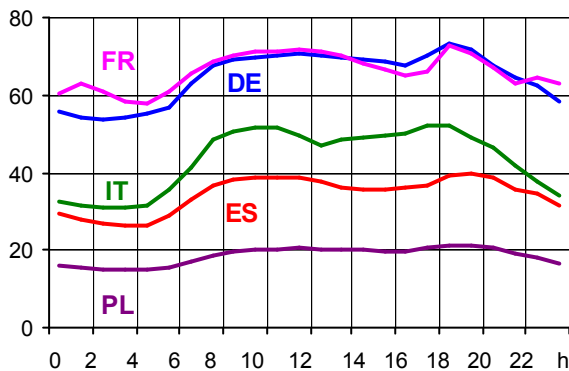
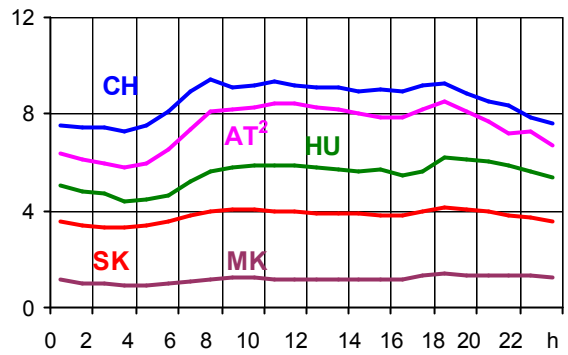
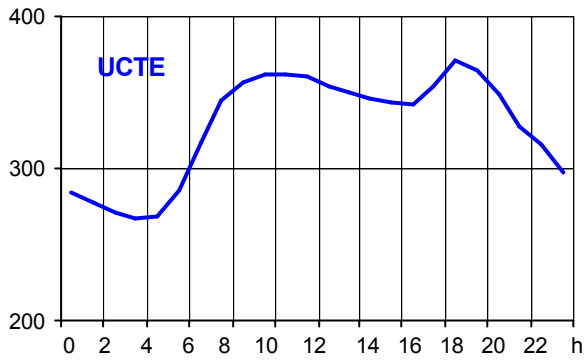
- Export Programs: Sum of all positive values of every hour of every border  
 - Import Programs: Sum of all negative values of every hour of every border

- 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.

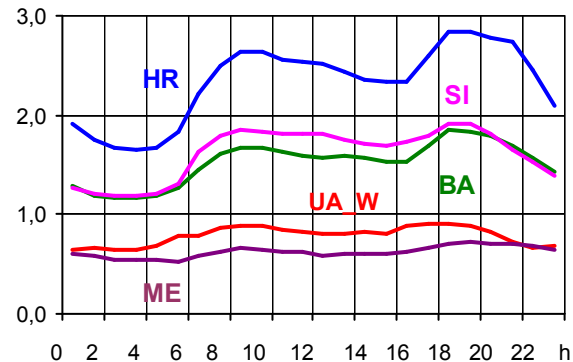
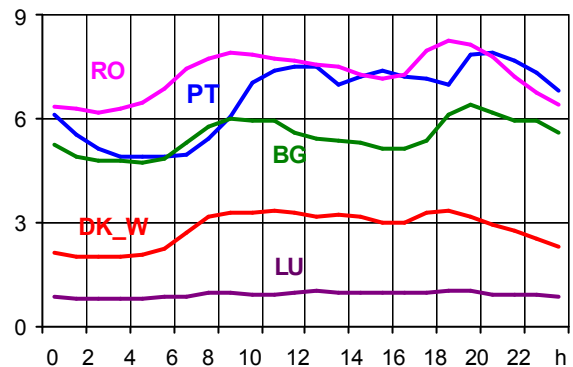
- Export Programs at 11:00: Sum of all positive values the third Wednesday from 10:00 to 11:00 a.m.  
 - Import Programs at 11:00: Sum of all negative values the third Wednesday from 10:00 to 11:00 a.m.

Consumption hourly load curves on 20.02.2008 CET

Values in GW



	Highest load MW	var.% <sup>1</sup>	Load representativity %
AT <sup>2</sup>	8485	n.a.	100
BA	1855	14,6	100
BE <sup>3</sup>	12668	1,1	100
BG	6408	12,4	100
CH	9408	3,0	100
CZ	9524	4,9	100
DE	73229	-8,2	100
DK_W	3351	-6,2	100
ES	39519	1,8	98
FR	72810	5,0	100
GR	8226	7,2	100
HR	2839	11,4	100
HU	6186	2,2	100
IT	52227	2,7	100
LU	1024	9,6	100
ME	715	19,6	100
MK	1371	11,7	100
NL	13789	-14,4	100
PL <sup>4</sup>	21340	2,0	100
PT	7916	-3,8	97
RO	8235	39,2	100
RS	6407	-15,6	100
SI	1918	-5,7	100
SK	4101	2,4	100
<b>UCTE</b>	<b>370916</b>	<b>1,0</b>	
UA_W	913	5,5	100



<sup>1</sup> Variation as compared to corresponding month of the previous year

<sup>2</sup> Load values as of February 2007

<sup>3</sup> The reported figures are best estimates based on actual measurements and extrapolations.

<sup>4</sup> Operational data

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