



October 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	Fossil fuels	Hydro prod	Other renew.	Of which wind	Non identifiable	Total			monthly	var. [%]	last 12 months	var. [%]
AT	0	2320	2481	0	0	611	5412	749	397	5764	-1,7	68900	3,0
BA	0	751	347	0	0	0	1098	-115	0	983	-0,2	11625	5,0
BE ²	3871	2866	145	260	0	0	7142 ¹	542	165	7519	-3,4	90655	1,3
BG	1332	1786	162	0	0	0	3280	-488	70	2722	-1,7	34902	6,5
CH	2392	178	2574	97	2	0	5241 ¹	381	230	5392	-0,1	64637	3,4
CZ	1729	4245	157	21	19	0	6152 ¹	-575	48	5529	-1,9	66115	3,4
DE	11394	31415	1669	5766	3544	0	50244 ¹	-3072	647	46525	-0,4	560159	0,5
DK_W	0	1499	2	652	510	0	2153 ¹	-299	0	1854	-1,9	21808	0,3
ES	4300	14602	1318	2688	2383	34	22942	-1102	294	21546	-0,8	272507	3,0
FR	33949	4326	3758	762	450	0	42795 ¹	-1458	705	40632	-0,6	495902	4,9
GR	0	3784	181	178	160	0	4143 ¹	248	105	4286	-2,1	56632	2,1
HR	0	594	228	3	3	0	825 ¹	623	18	1430	-2,5	18047	5,5
HU	1289	2083	0	0	0	0	3372 ¹	107	0	3479	-2,2	41538	1,0
IT	0	22344	2926	807	397	0	26077	2873	662	28288	-2,8	340094	0,1
LU	0	283	76	13	5	0	372	273	95	550	-8,0	6906	2,4
ME	0	65	66	0	0	0	131	230	0	361	-1,9	4674	n.a.
MK	0	442	57	0	0	0	499	185	0	684	-3,7	8941	6,6
NL	361	8576	0	656	387	0	9593 ¹	569	0	10162	1,7	118696	1,7
PL ³	0	12129	228	113	99	0	12470 ¹	6	97	12379	-2,2	144313	2,5
PT	0	2356	413	619	506	0	3388 ¹	770	48	4110	-2,7	51939	1,4
RO	973	2892	1100	0	0	0	4965 ¹	-326	7	4632	-0,3	55920	4,2
RS	0	2756	509	0	0	0	3265	42	100	3207	3,1	39081	n.a.
SI	511	434	218	0	0	0	1163 ¹	-58	0	1105	-3,9	12945	-3,6
SK	1203	636	260	28	0	0	2127 ¹	265	22	2370	-1,1	28021	2,4
UCTE	63304	123362	18875	12663	8465	645	218849 ¹	370	3710	215509	-1,1	2534060	-0,6
UA_W	0	574	9	0	0	0	583	-241	0	342	-7,6	4227	0,6

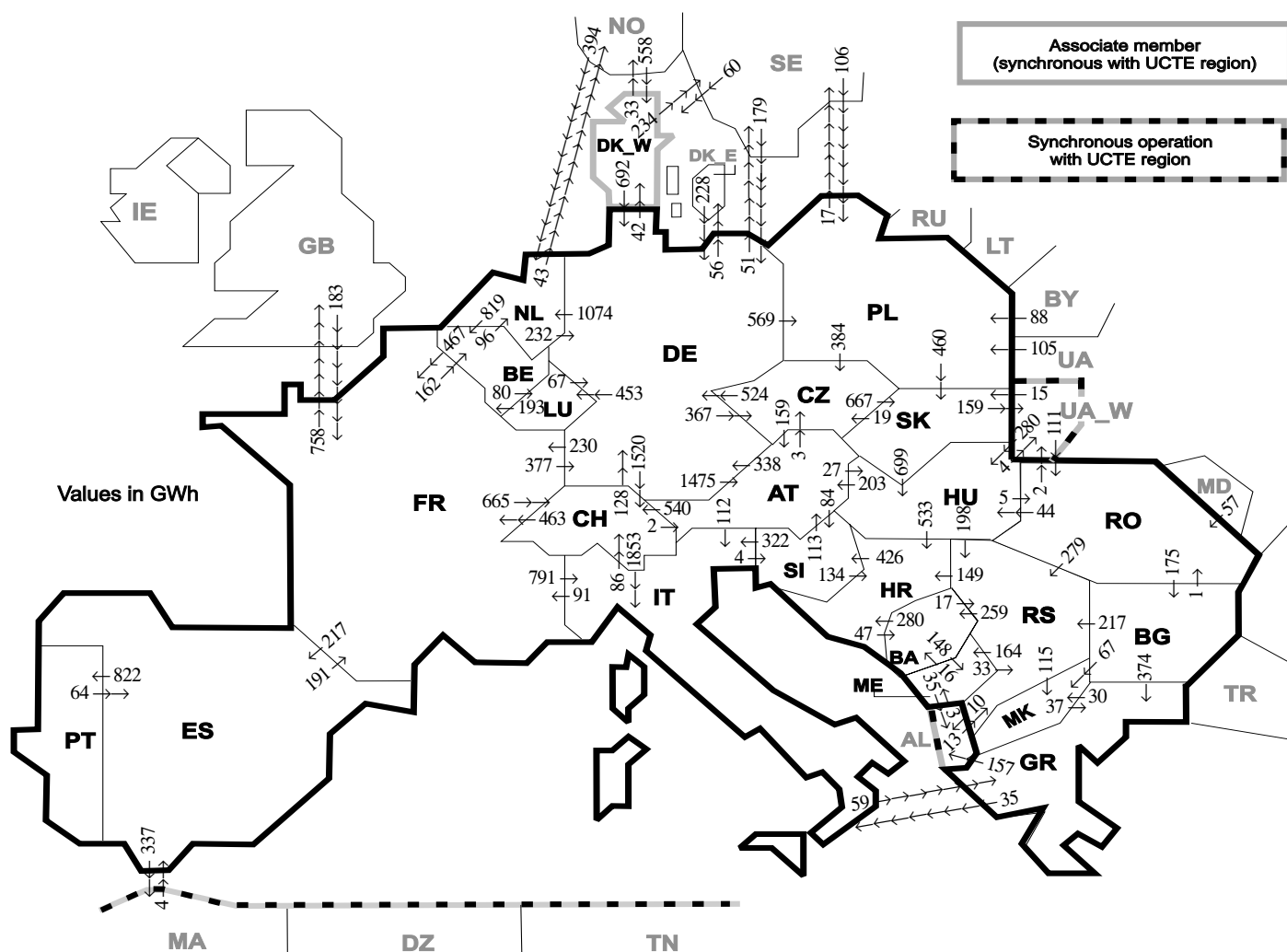
¹ Including deliveries from industry

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
Fossil fuels	100	100	100	100	100	100	100	100	97	100	100	100	100	100	100	100	100	100	100	100	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
Non identifiable	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	-	-	-	-	540	3	338	-	-	-	-	-	27	112	-	-	-	-	-	-	-	-	84	-	-	-	1104
BA	-	-	-	-	-	-	-	-	-	-	-	280	-	-	-	148	-	-	-	-	-	17	-	-	-	-	445
BE	-	-	-	-	-	-	-	-	-	467	-	-	-	-	80	-	-	96	-	-	-	-	-	-	-	-	643
BG	-	-	-	-	-	-	-	-	-	-	374	-	-	-	-	-	67	-	-	-	1	217	-	-	-	0	659
CH	2	-	-	-	-	-	128	-	-	463	-	-	-	1853	-	-	-	-	-	-	-	-	-	-	-	-	2446
CZ	159	-	-	-	-	-	524	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	667	-	-	1350	
DE	1475	-	-	-	1520	367	-	42	-	230	-	-	-	453	-	-	-	1074	569	-	-	-	-	-	-	107	5837
DK_W	-	-	-	-	-	-	692	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	267	959
ES	-	-	-	-	-	-	-	-	-	191	-	-	-	-	-	-	-	-	-	822	-	-	-	-	-	-	1350
FR	-	-	162	-	665	-	377	-	217	-	-	-	-	791	-	-	-	-	-	-	-	-	-	-	-	758	2970
GR	-	-	-	0	-	-	-	-	-	-	-	-	-	35	-	30	-	-	-	-	-	-	-	-	-	157	222
HR	-	47	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	0	426	-	-	473	
HU	203	-	-	-	-	-	-	-	-	-	-	533	-	-	-	-	-	-	-	-	5	198	0	4	-	943	
IT	0	-	-	-	86	-	-	-	91	59	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	240	
LU	-	-	193	-	-	-	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	260	
ME	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	-	-	35	84	
MK	-	-	-	0	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-	-	-	-	0	-	-	37	
NL	-	-	819	-	-	-	232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	1094
PL	-	-	-	-	-	384	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	460	17	861	
PT	-	-	-	-	-	-	-	-	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64	
RO	-	-	-	175	-	-	-	-	-	-	-	-	44	-	-	-	-	-	-	-	-	-	279	-	2	0	500
RS	-	259	-	0	-	-	-	-	-	-	-	149	0	-	164	115	-	-	-	-	0	-	-	-	-	10	697
SI	113	-	-	-	-	-	-	-	-	-	134	-	322	-	-	-	-	-	-	-	-	-	-	-	-	569	
SK	-	-	-	-	-	19	-	-	-	-	-	699	-	-	-	-	-	-	0	-	-	-	-	-	159	877	
UA_W	-	-	-	-	-	-	-	-	-	-	-	-	280	-	-	-	-	-	-	-	111	-	-	15	-	406	
Other III ¹	-	-	-	0	-	-	407	618	4	183	0	-	-	-	3	-	394	299	-	57	13	-	-	-	-	1978	
Sum imp	1952	322	1174	175	2811	773	2765	660	285	1625	470	1096	1050	3113	533	315	212	1564	868	822	174	757	514	1142	165	1731	27068

Sum of physical energy flows between UCTE countries = 22788GWh Total physical energy flows = 27068GWh

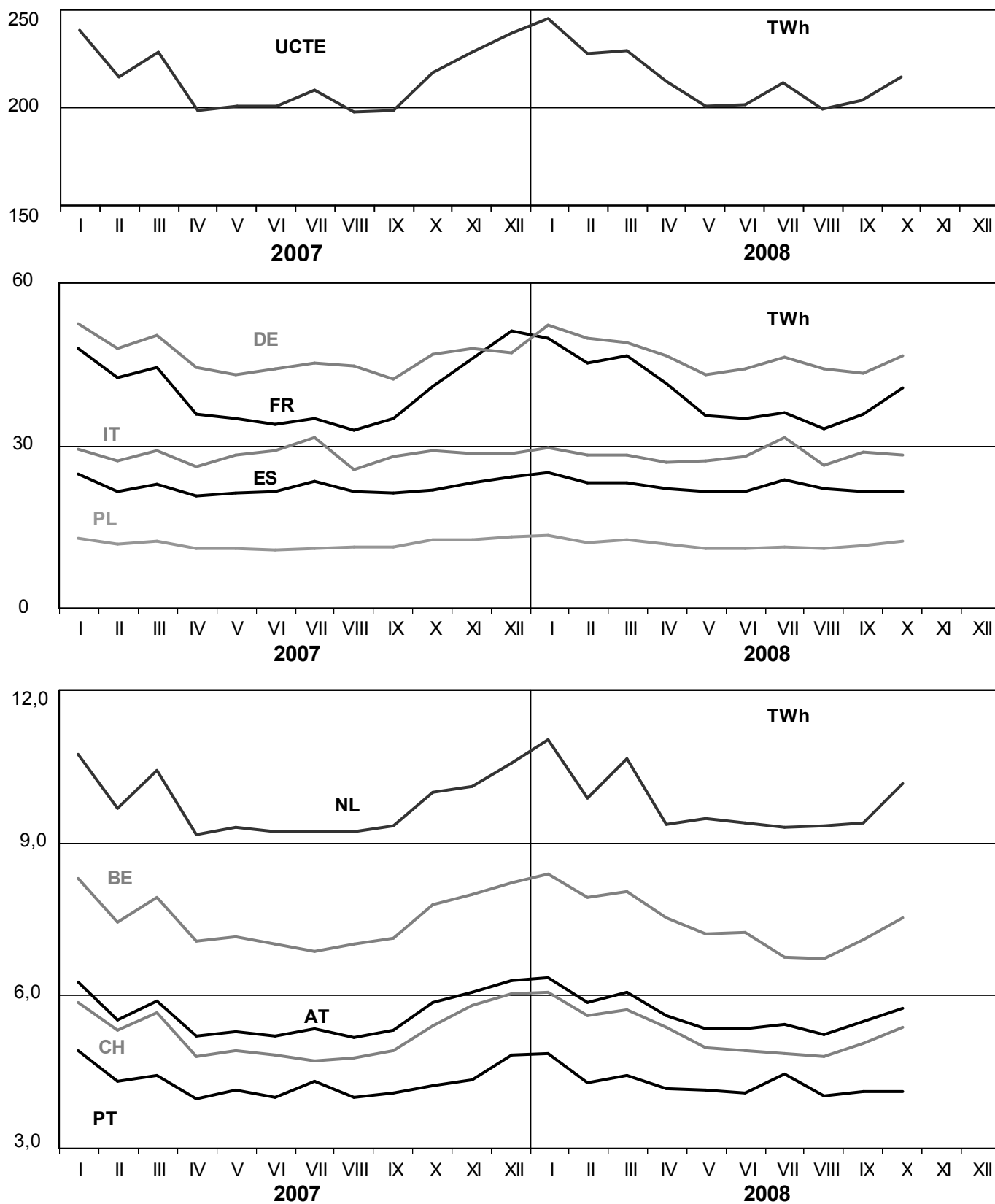
¹ Other III: Albania, Belarus, Denmark East, Great Britain, Morocco, Republic of Moldavia, Norway, Sweden, Republic of Turkey and Ukraine

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

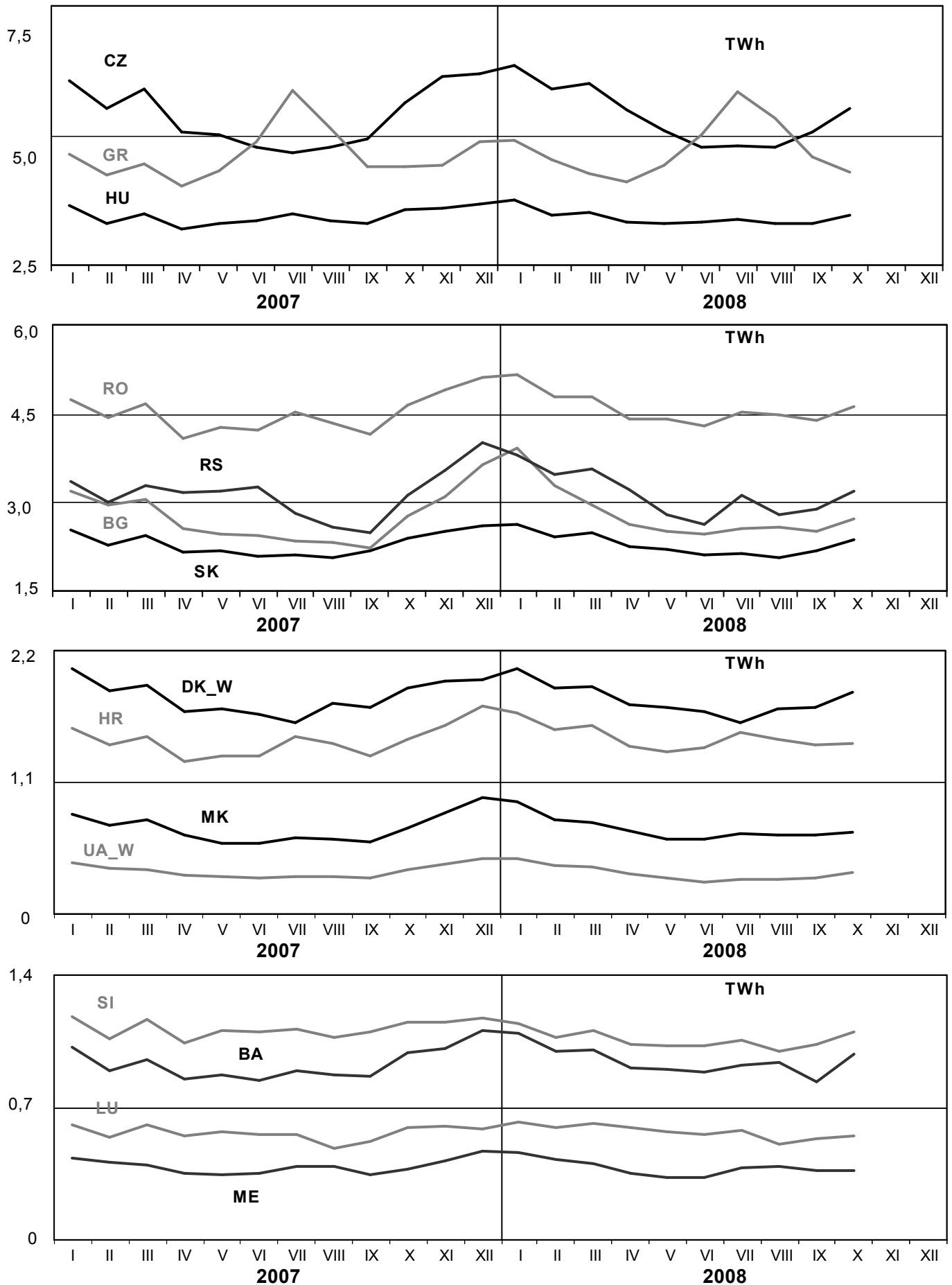
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3

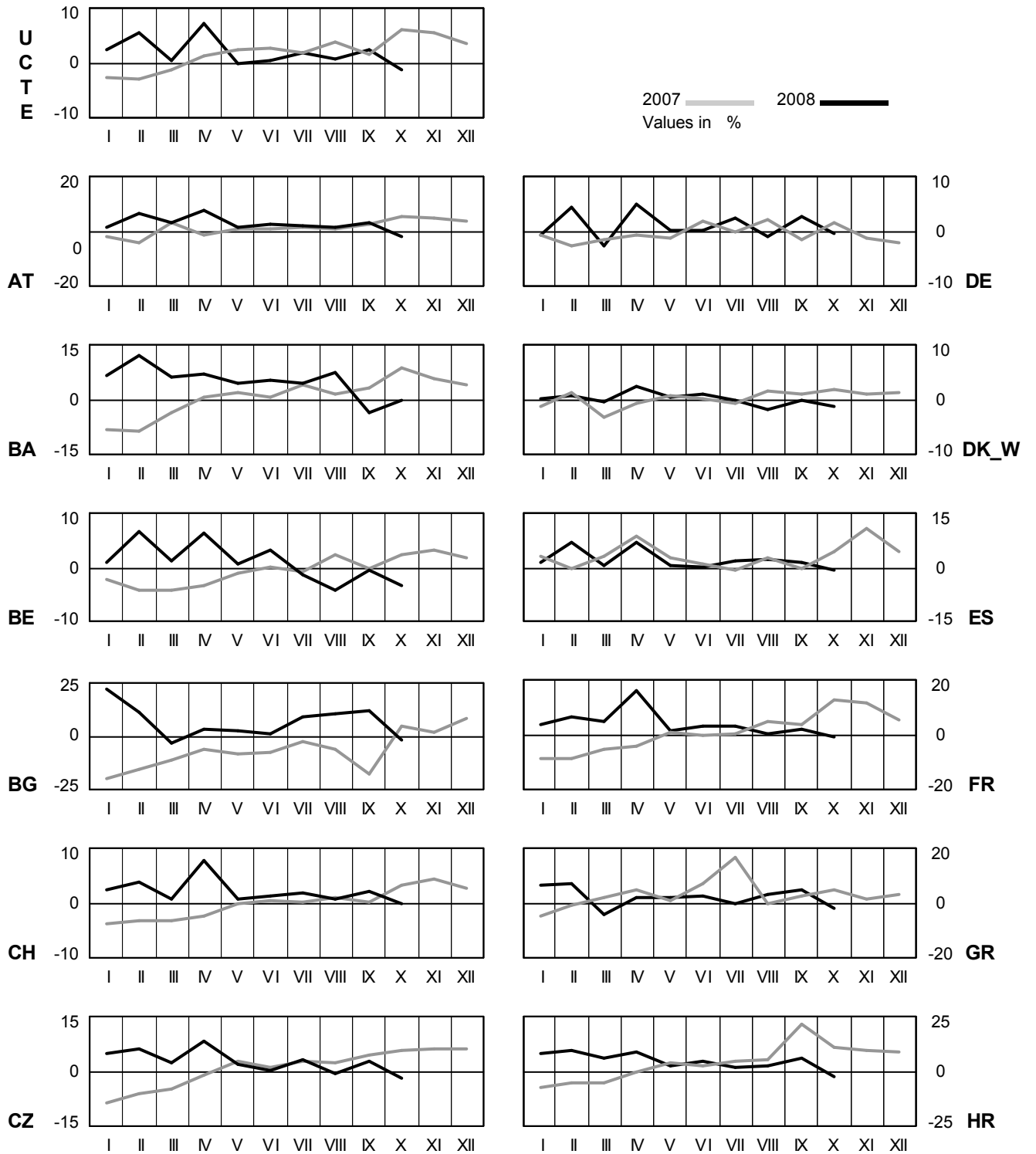
Monthly consumption

October 2008



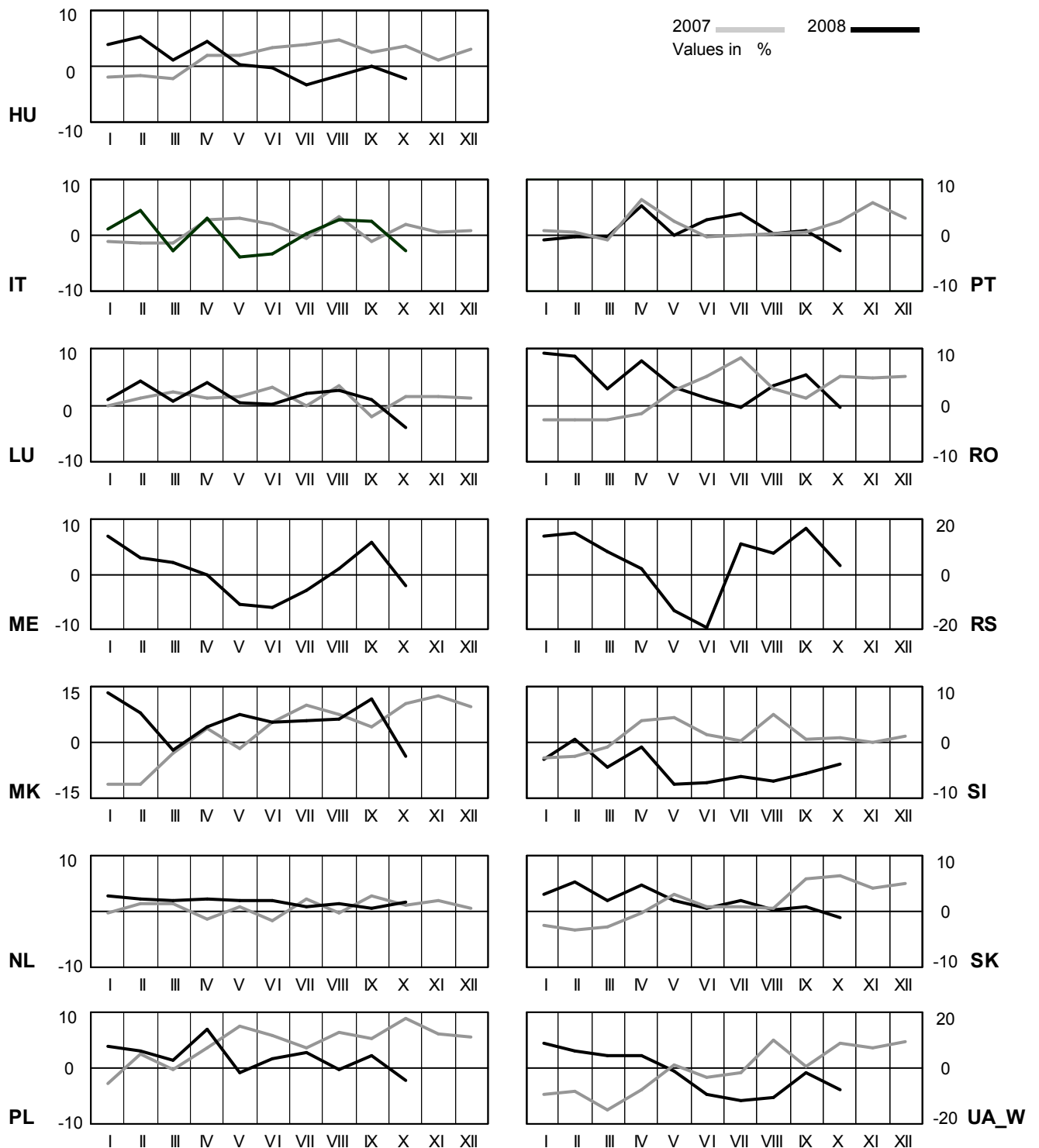
4 Monthly consumption variation

October 2008



4 Monthly consumption variation

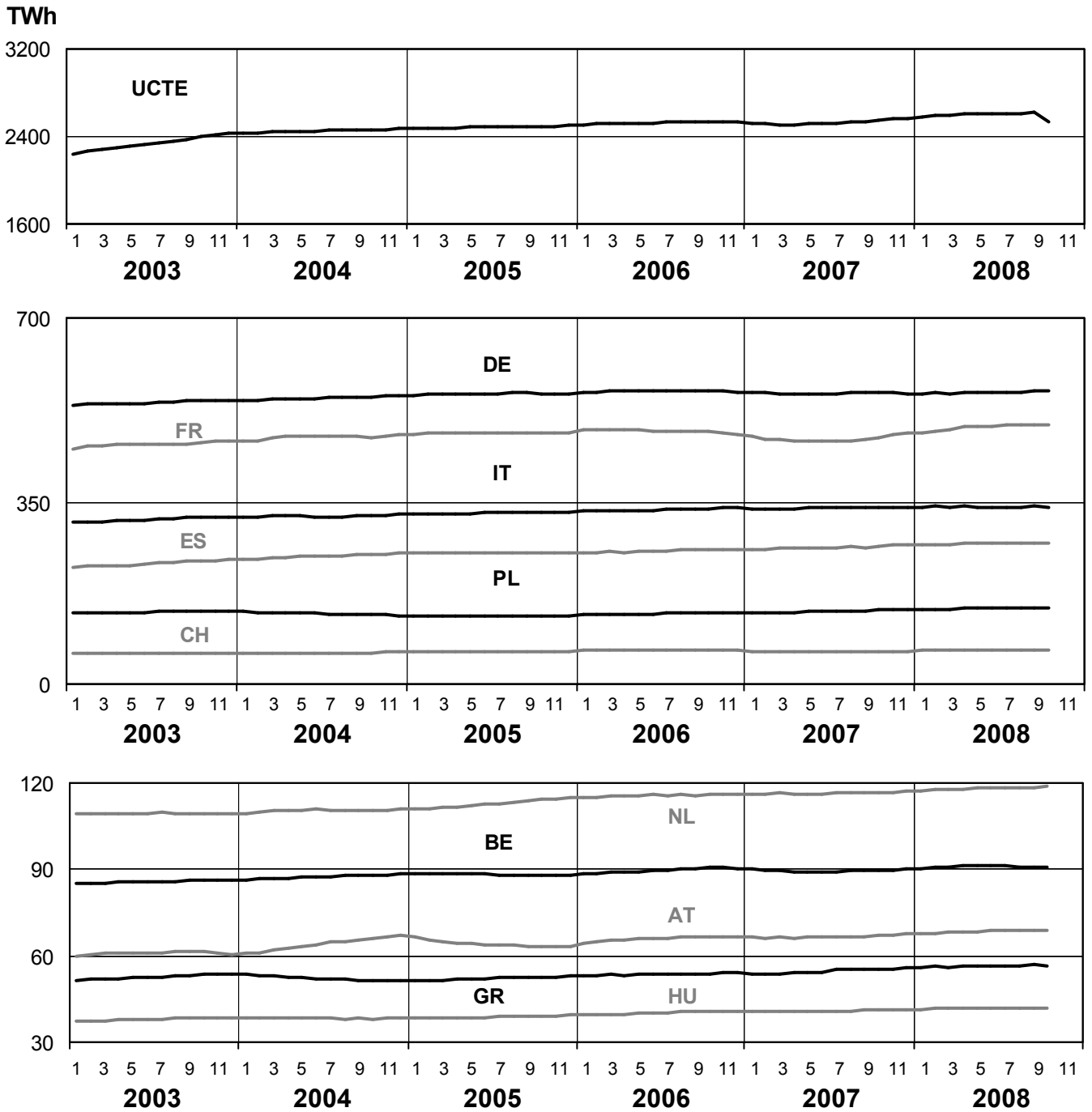
October 2008



5

Consumption of the last 12 months

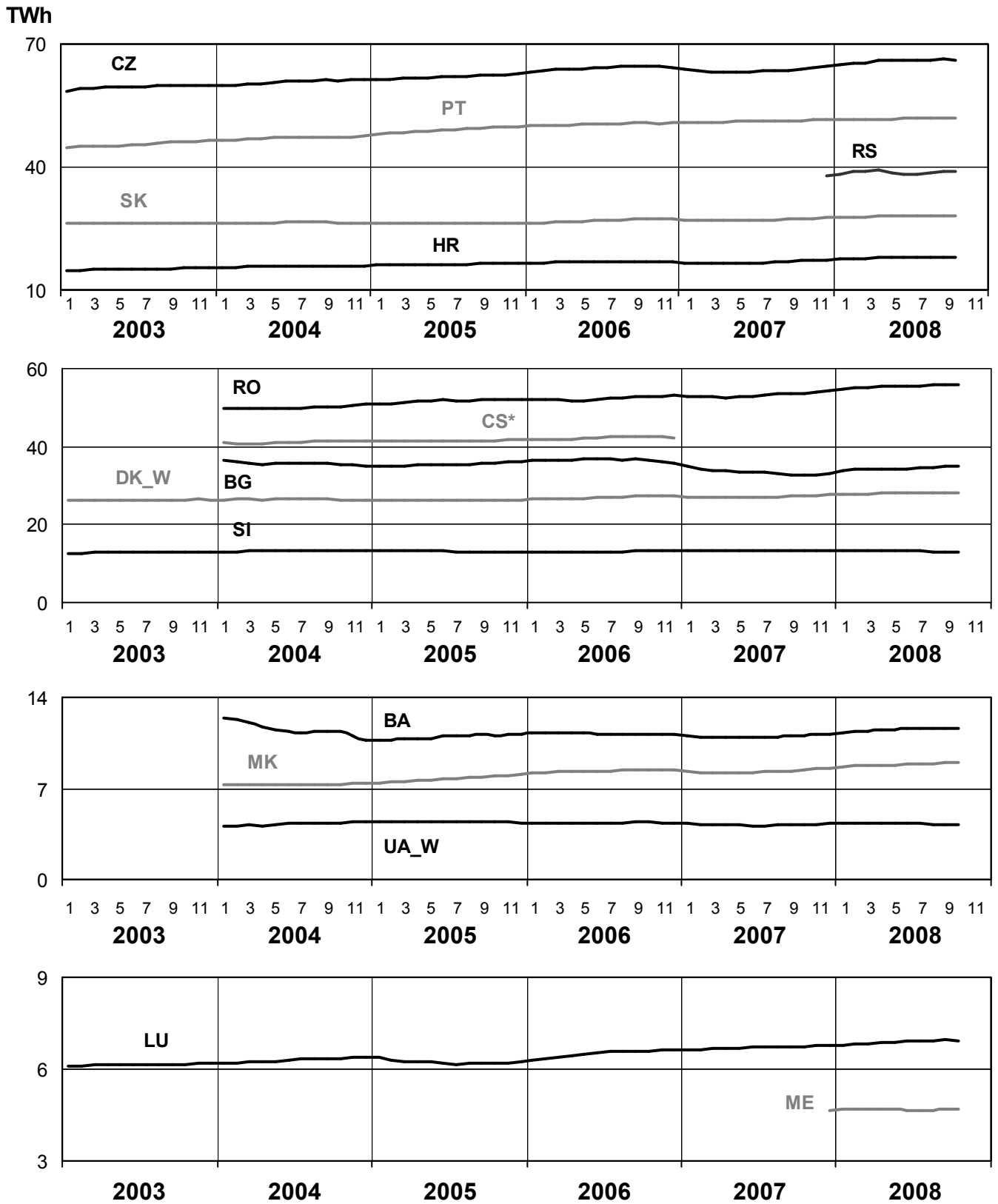
October 2008



5

Consumption of the last 12 months

October 2008

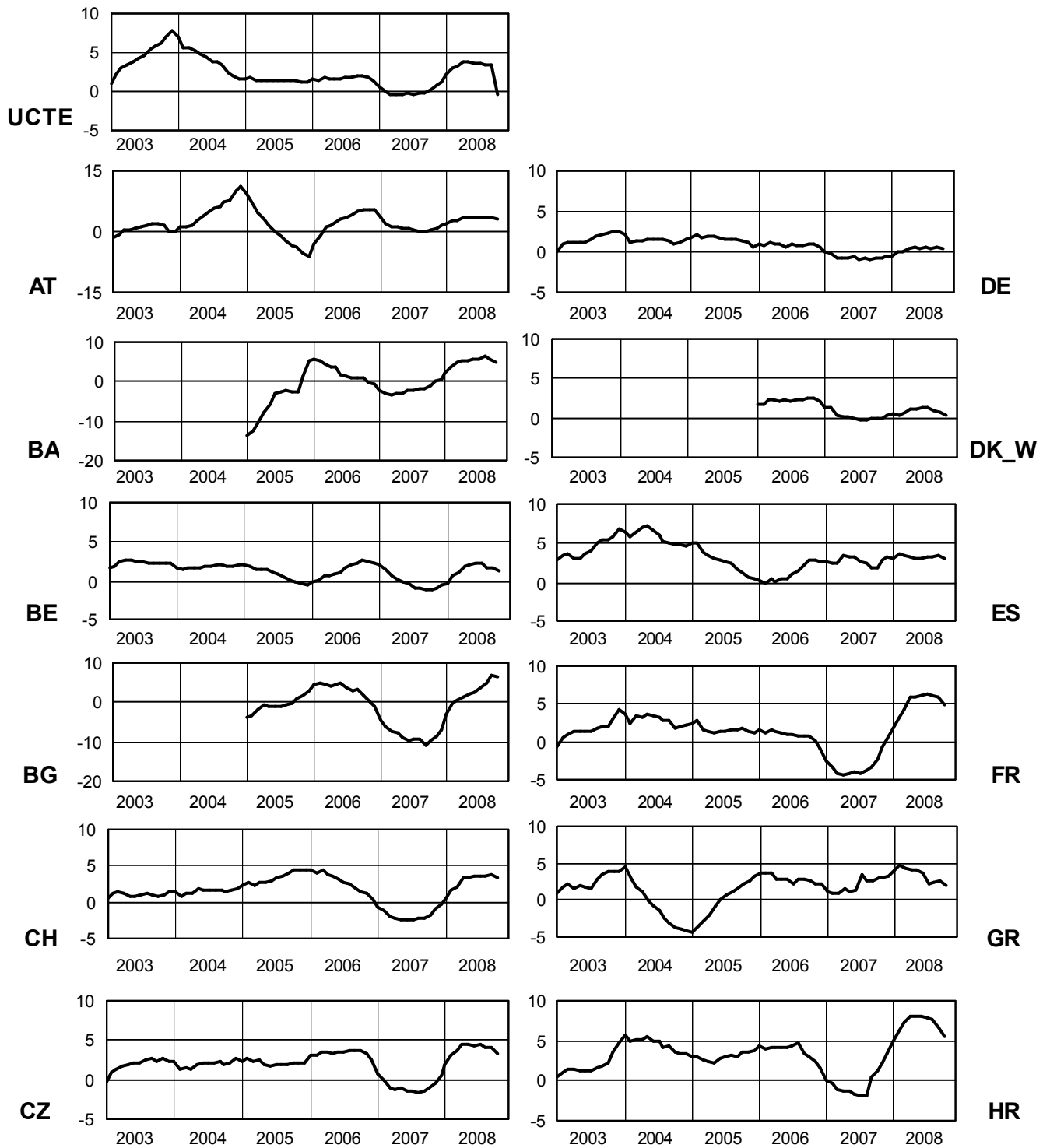


* CS consumption values until December 2006; from 2007 on ME and RS as separate countries

6

Variation of the last 12 months' consumption in %

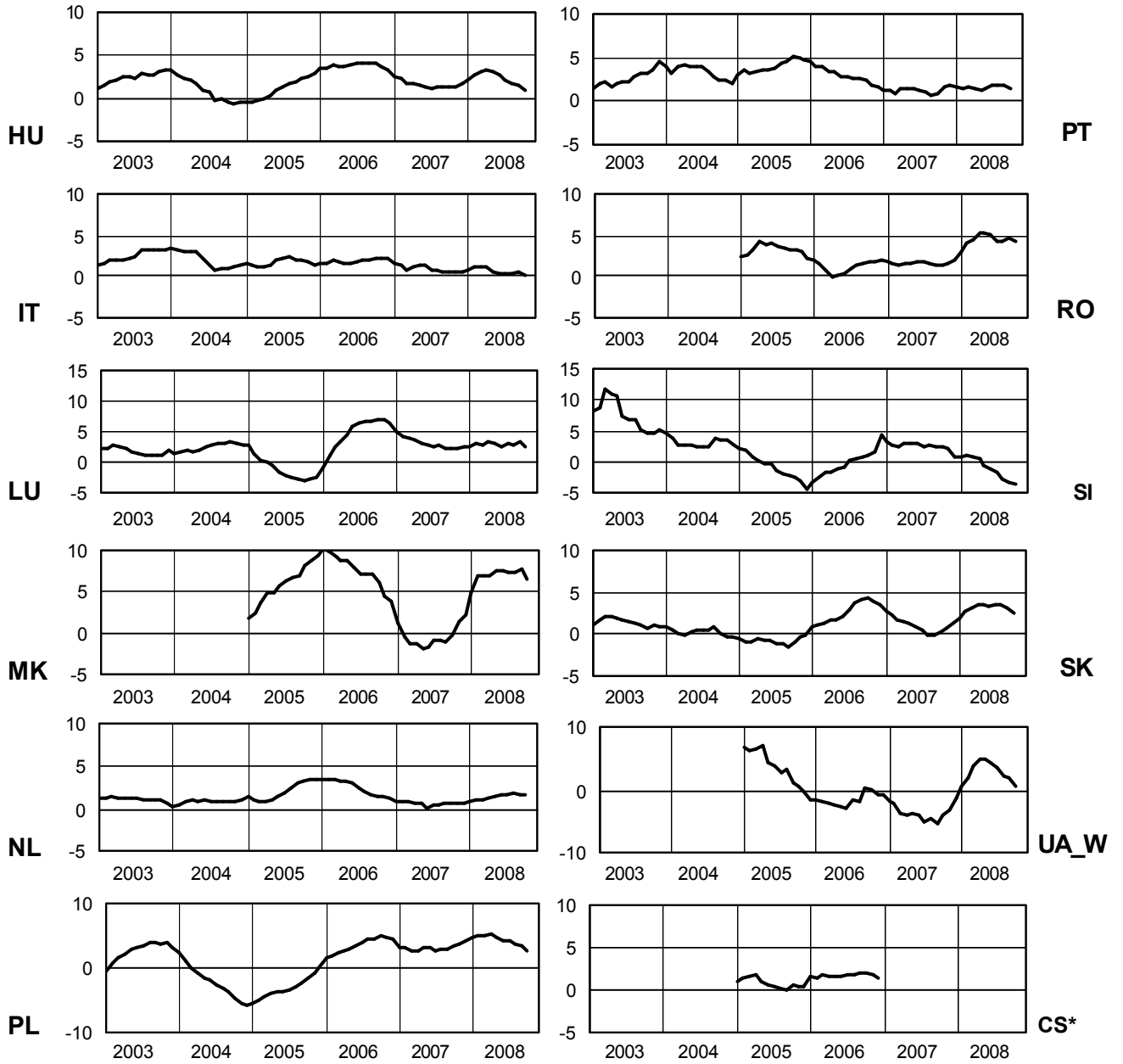
October 2008



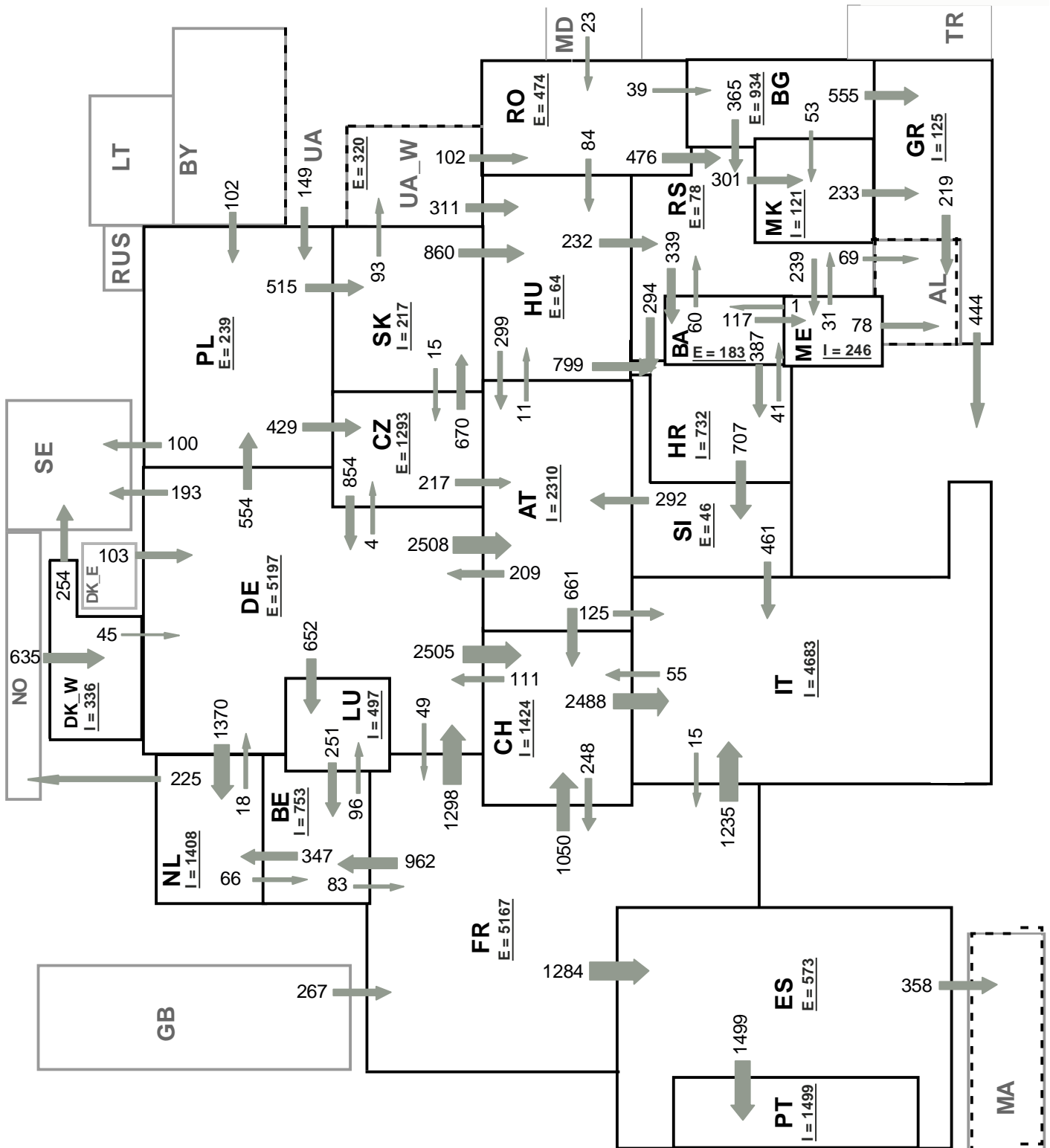
6

Variation of the last 12 months' consumption in %

October 2008



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



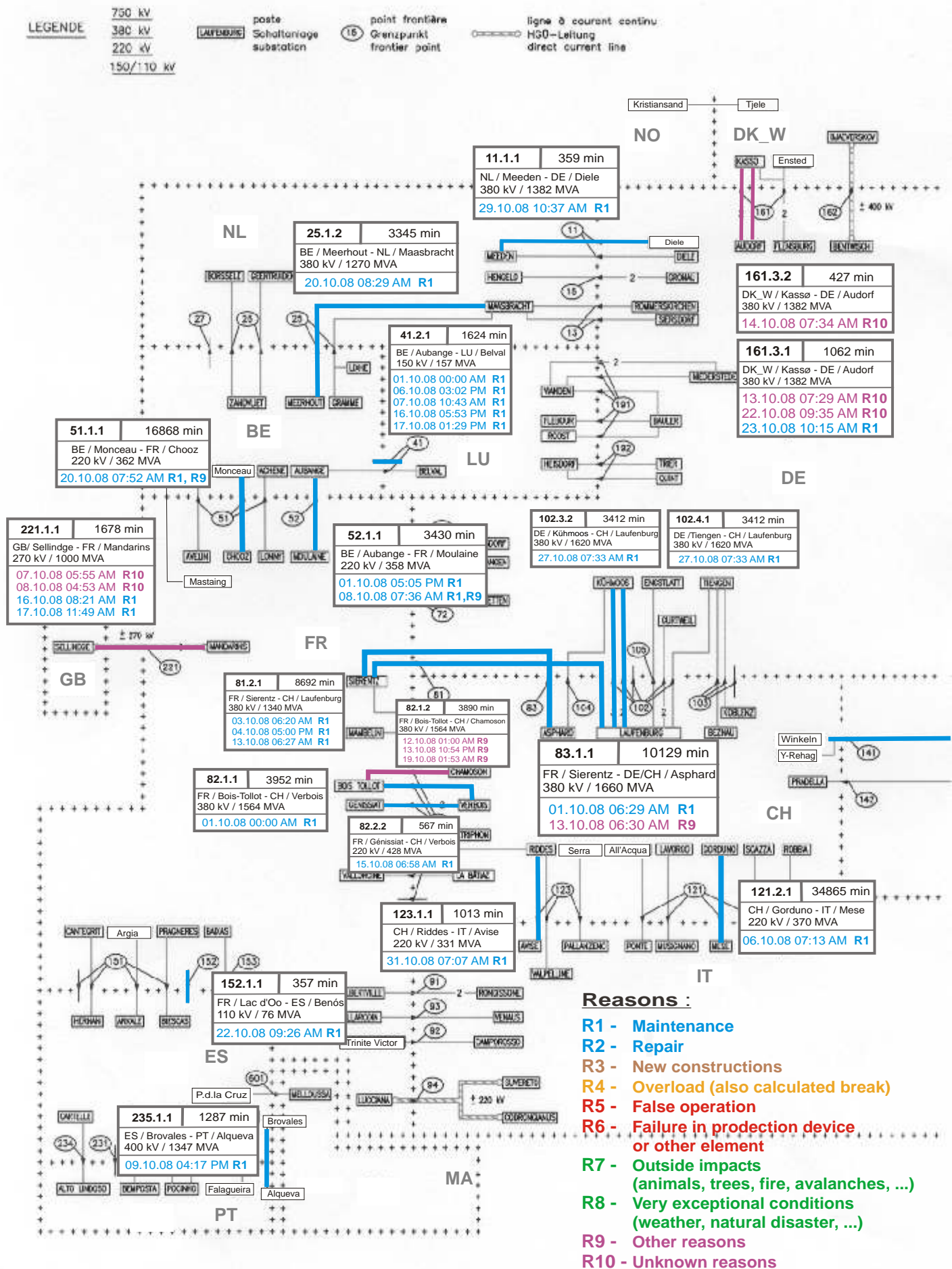
Sum of load flows in MW

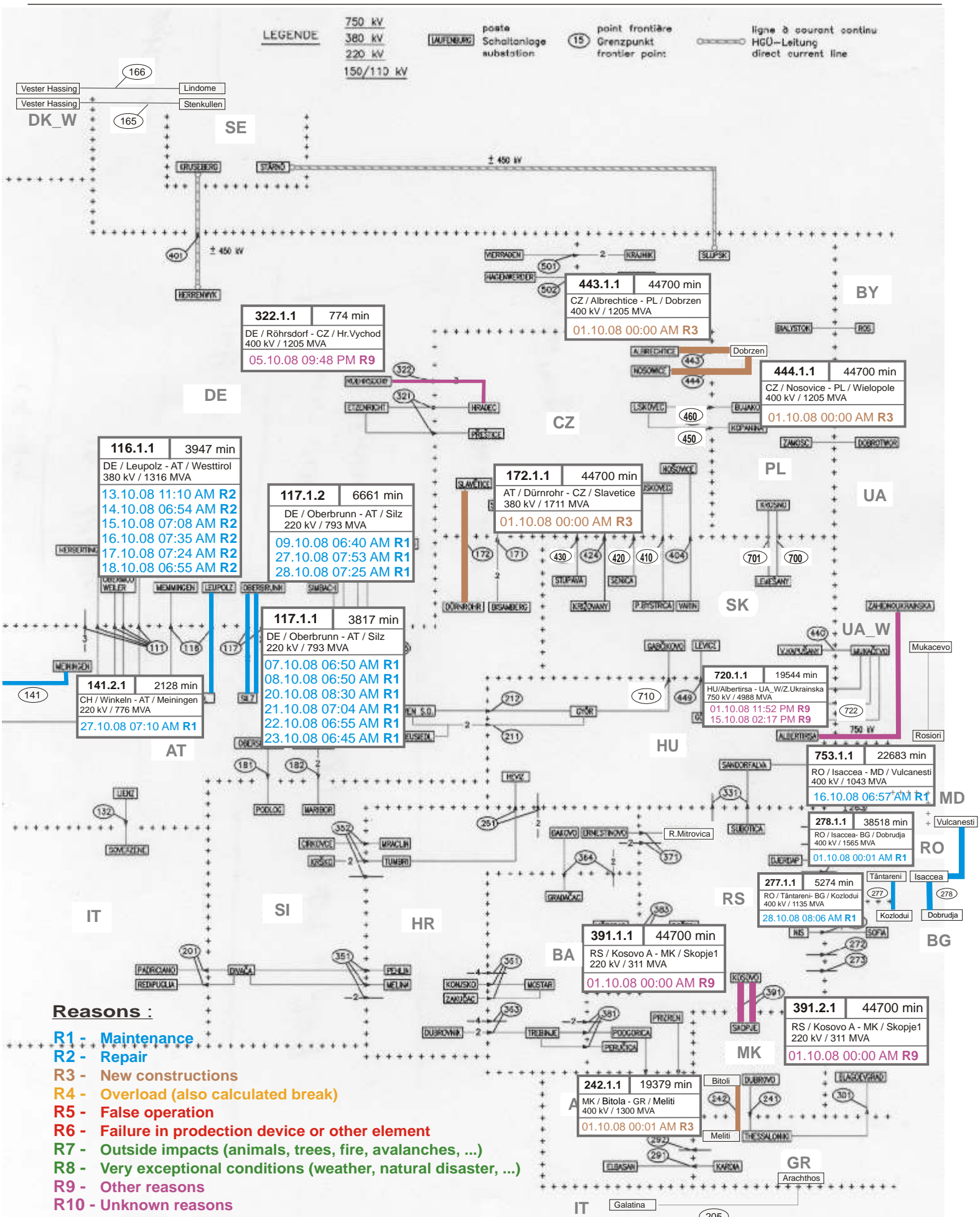
UCTE = 30208 MW

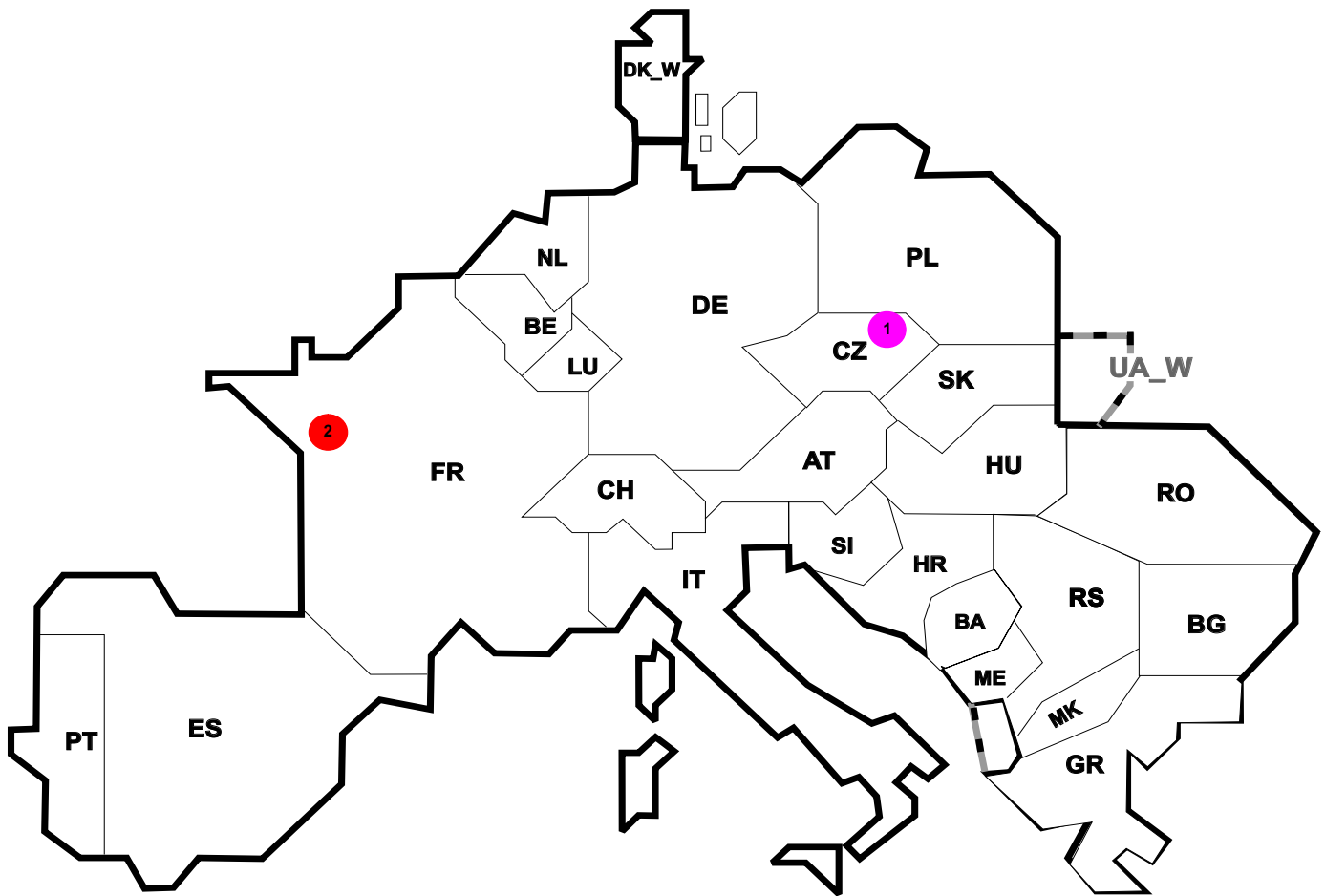
Total = 33489 MW

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 ² [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption ¹
1	CZ	Horni Zivotice	R9	11	0	4	0,084
2	FR	Theix	R5	4	37	6	0,004

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	682132	790750	1160	681	1593	1345
BA	415691	293954	247	141	377	141
BE	302491	735878	0	663	311	1412
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	1472756	1852018	1485	2922	3324	2308
CZ	1520707	899801	2331	972	1732	1785
DE	4077700	757277	4931	1224	5948	281
DK_W	928728	441247	598	880	1007	30
ES	1453634	369176	1861	1310	1498	300
FR	5469181	4107510	8255	3124	6923	4573
GR	60509	307219	435	500	50	500
HR	27355	643113	37	780	0	898
HU	820923	929165	86	1056	437	1375
IT	240411	3113207	70	4753	157	6360
ME	125723	355421	154	411	154	453
MK	3900	184700	27	200	0	316
NL	1168572	1636943	453	1828	1607	2342
PL	190138	212081	377	150	300	309
PT	1297	772421	0	1500	0	1100
RO	420251	89273	573	99	773	70
RS	423945	442842	667	577	722	817
SI	635295	585919	734	689	845	752
SK	383862	577784	1248	1394	1008	1547
UA_W	261460	24000	370	50	370	50

- 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.

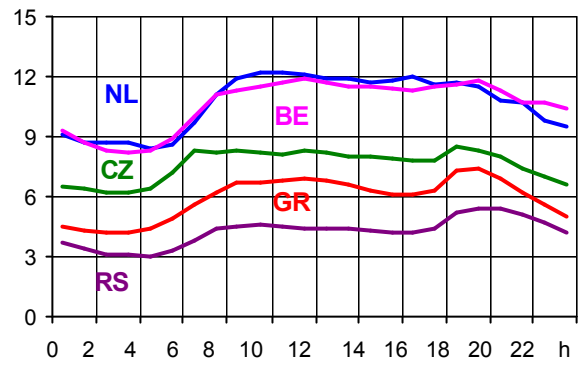
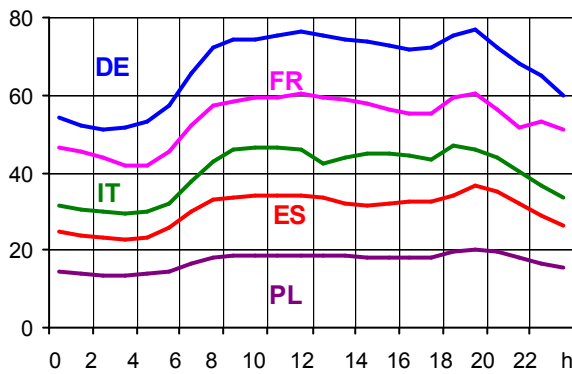
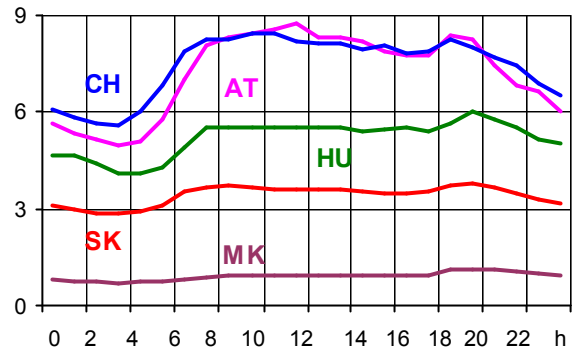
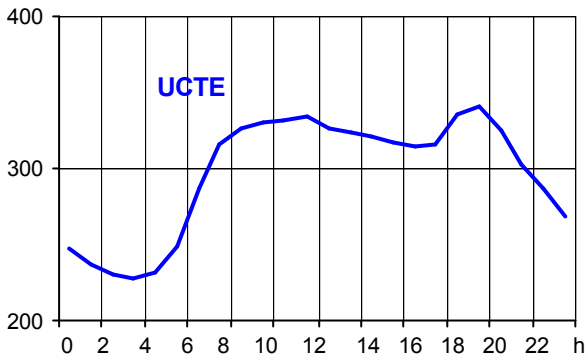
- Export Programs: Sum of all positive values of every hour of every border
 - Import Programs: Sum of all negative values of every hour of every border

- 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.

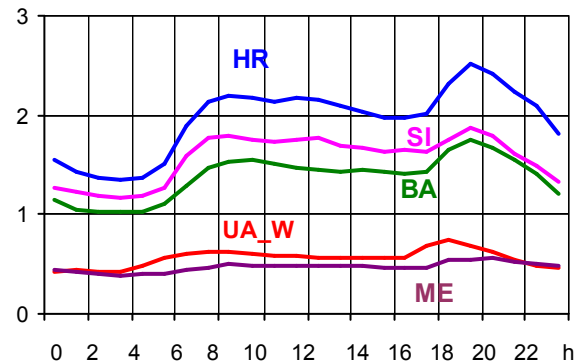
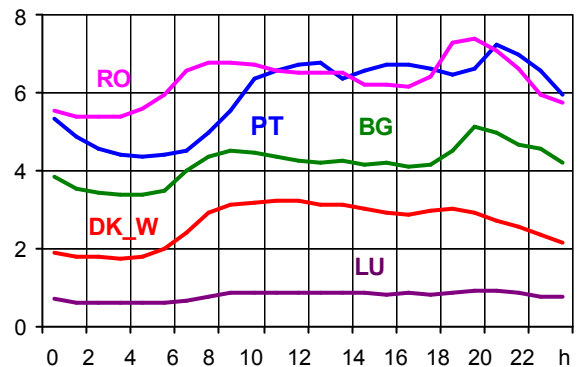
- Export Programs at 11:00: Sum of all positive values the third Wednesday from 10:00 to 11:00 a.m.
 - Import Programs at 11:00: Sum of all negative values the third Wednesday from 10:00 to 11:00 a.m.

Consumption hourly load curves on 15.10.2008 CET

Values in GW



	Highest load MW	var.% ¹	Load representativity %
AT	8765	8,7	100
BA	1753	2,8	100
BE ²	11855	-2,1	100
BG	5105	-4,1	100
CH	8458	-1,7	100
CZ	8540	-0,9	100
DE	76648	-2,6	91
DK_W	3254	1,8	100
ES	36488	-0,8	98
FR	60549	-2,0	100
GR	7391	0,3	100
HR	2512	-2,0	100
HU	6045	-0,8	100
IT	46995	-4,0	100
LU	906	-4,8	100
ME	556	-4,1	100
MK	1143	-8,0	100
NL	12218	-17,1	100
PL ³	20307	-1,2	100
PT	7257	-1,5	97
RO	7392	-1,1	100
RS	5423	-4,8	100
SI	1863	-9,6	100
SK	3782	-2,2	100
UCTE	341353	-2,3	
UA_W	753	-9,4	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 Operational data

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