



May 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

1

Electricity supply situation of the countries

May 2008

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	912	4016	0	0	762	5690	22	349	5363	1,2	68530	3,4
BA	0	638	362	0	0	0	1000	-92	0	908	4,5	11507	5,4
BE ²	3319	2460	146	282	30	0	6207 ¹	1154	154	7207	0,7	91105	2,1
BG	1334	1410	399	0	0	0	3143	-587	34	2522	2,4	34198	2,0
CH	2332	165	3554	90	2	0	6141 ¹	-848	314	4979	1,2	64234	3,4
CZ	1987	3660	211	29	12	0	5887 ¹	-772	16	5099	1,8	65952	4,4
DE	11320	26658	2261	4004	1648	0	44243 ¹	-683	536	43024	0,0	558408	0,5
DK_W	0	1168	2	282	178	0	1452 ¹	272	0	1724	0,5	21873	1,1
ES	4669	11881	3486	2346	1756	0	22382	-761	200	21422	0,7	271407	3,2
FR	31972	2080	7117	599	278	0	41768 ¹	-5792	455	35521	1,5	493192	5,9
GR	0	3693	264	96	78	0	4053 ¹	456	101	4408	2,0	56258	4,1
HR	0	347	488	3	3	0	838 ¹	525	10	1353	2,6	17880	8,0
HU	997	1767	0	0	0	0	2764 ¹	560	0	3324	0,4	41794	3,1
IT	0	18615	4509	855	423	0	23979	3891	637	27233	-3,7	340355	0,7
LU	0	24	77	9	3	0	110	562	99	573	0,9	6894	3,1
ME	0	7	96	0	0	0	103	223	0	326	-5,2	4688	n.a.
MK	0	285	95	0	0	0	380	253	0	633	7,5	8791	7,6
NL	275	6798	0	501	232	0	7574 ¹	1784	0	9358	0,7	117160	0,7
PL ³	0	10720	247	39	27	0	11006 ¹	56	61	11001	-1,0	143912	4,6
PT	0	1892	982	523	336	0	3397 ¹	774	36	4135	-0,1	52105	2,0
RO	618	2193	1905	0	0	0	4716 ¹	-292	23	4401	3,0	55522	5,4
RS	0	2012	927	0	0	0	2939	-107	52	2780	-12,9	38705	n.a.
SI	514	333	372	0	0	0	1219 ¹	-188	0	1031	-7,5	13273	-0,6
SK	1437	584	414	24	0	0	2459 ¹	-212	27	2220	2,0	27974	3,4
UCTE	60774	100302	31930	9682	5006	762	203450 ¹	198	3104	200545	0,7	2605717	3,7
UA_W	0	585	18	0	0	0	603	-297	0	306	-1,3	4358	4,8

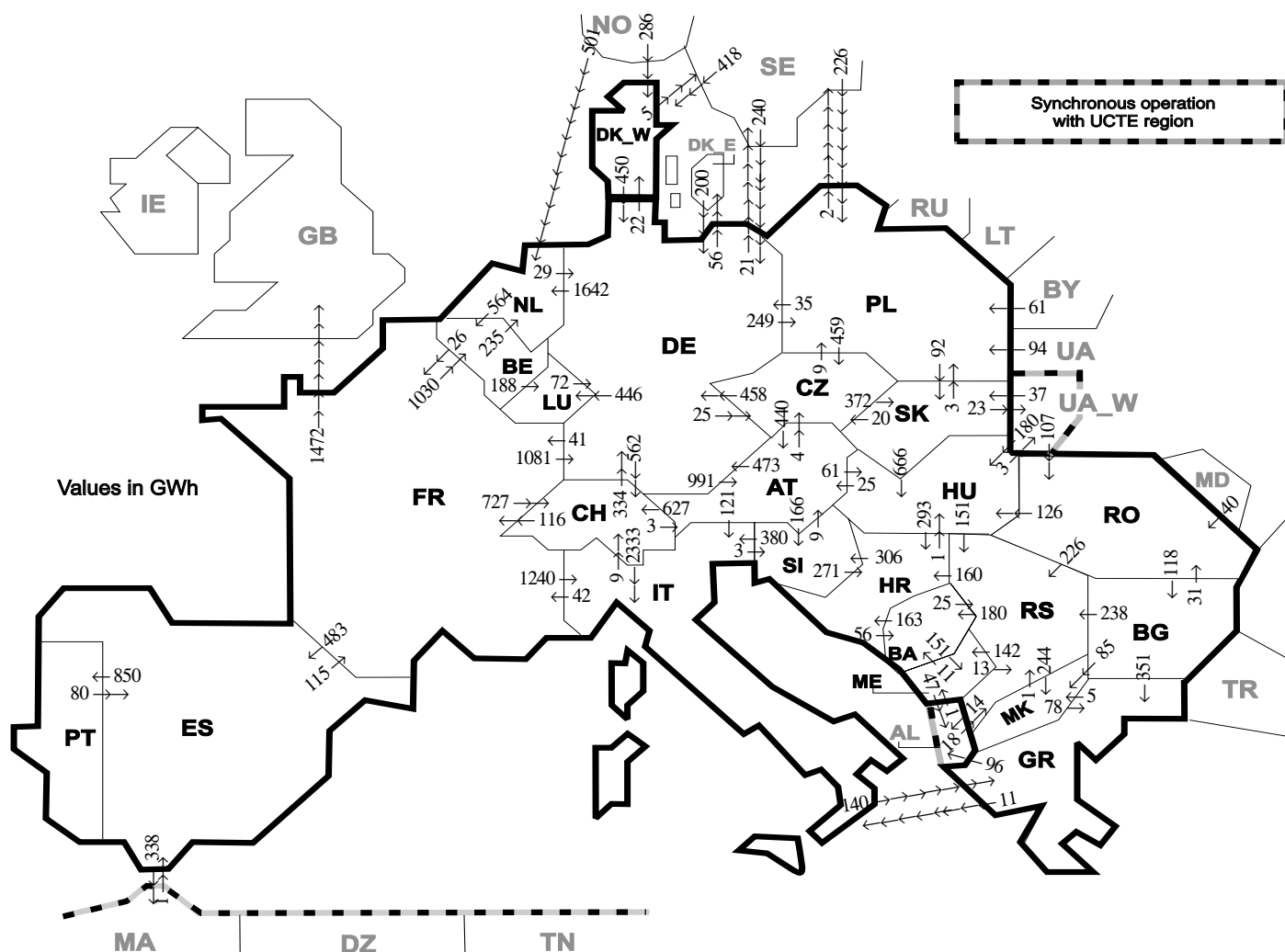
¹ Including deliveries from industry

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	93	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	-	-	-	-	627	4	473	-	-	-	-	-	61	121	-	-	-	-	-	-	-	-	166	-	-	-	1452
BA	-	-	-	-	-	-	-	-	-	-	-	163	-	-	-	151	-	-	-	-	-	25	-	-	-	-	339
BE	-	-	-	-	-	-	-	-	-	26	-	-	-	-	188	-	-	235	-	-	-	-	-	-	-	-	449
BG	-	-	-	-	-	-	-	-	-	-	351	-	-	-	-	-	85	-	-	-	31	238	-	-	-	0	705
CH	3	-	-	-	-	-	334	-	-	116	-	-	-	2333	-	-	-	-	-	-	-	-	-	-	-	-	2786
CZ	440	-	-	-	-	-	458	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	372	-	-	1279
DE	991	-	-	-	562	25	-	22	41	-	-	-	-	446	-	-	1642	249	-	-	-	-	-	-	-	77	4055
DK_W	-	-	-	-	-	-	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	455
ES	-	-	-	-	-	-	-	-	-	115	-	-	-	-	-	-	-	-	-	850	-	-	-	-	-	338	1303
FR	-	-	1030	-	727	-	1081	-	483	-	-	-	-	1240	-	-	-	-	-	-	850	-	-	-	-	1472	6033
GR	-	-	-	0	-	-	-	-	-	-	-	-	-	11	-	-	5	-	-	-	-	-	-	-	-	96	112
HR	-	56	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	0	306	-	-	-	363	
HU	25	-	-	-	-	-	-	-	-	-	-	293	-	-	-	-	-	-	-	-	0	151	0	3	-	472	
IT	0	-	-	-	9	-	-	-	-	42	140	-	-	-	-	-	-	-	-	-	-	-	3	-	-	194	
LU	-	-	0	-	-	-	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	
ME	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	47	
MK	-	-	-	0	-	-	-	-	-	-	78	-	-	-	-	-	-	-	-	-	-	-	1	-	-	79	
NL	-	-	564	-	-	-	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	593
PL	-	-	-	-	-	459	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92	-	2	588
PT	-	-	-	-	-	-	-	-	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80
RO	-	-	-	118	-	-	-	-	-	-	-	-	126	-	-	-	-	-	-	-	-	-	-	-	0	0	470
RS	-	180	-	0	-	-	-	-	-	-	-	160	0	-	-	142	244	-	-	-	0	-	-	-	-	14	740
SI	9	-	-	-	-	-	-	-	-	-	271	-	380	-	-	-	-	-	-	-	-	-	-	-	-	-	660
SK	-	-	-	-	-	20	-	-	-	-	-	-	666	-	-	-	-	-	3	-	-	-	-	-	23	-	712
UA_W	-	-	-	-	-	-	-	-	-	-	-	-	180	-	-	-	-	-	-	-	107	-	-	37	-	-	324
Other III ¹	-	-	-	0	-	-	440	704	1	0	0	-	-	-	-	1	-	501	381	-	40	18	-	-	-	-	2086
Sum imp	1468	247	1594	118	1925	508	3372	726	564	340	569	887	1034	4085	634	294	334	2378	642	850	178	672	475	501	26	2051	26472

Sum of physical energy flows between UCTE countries = 21985GWh Total physical energy flows = 26472GWh

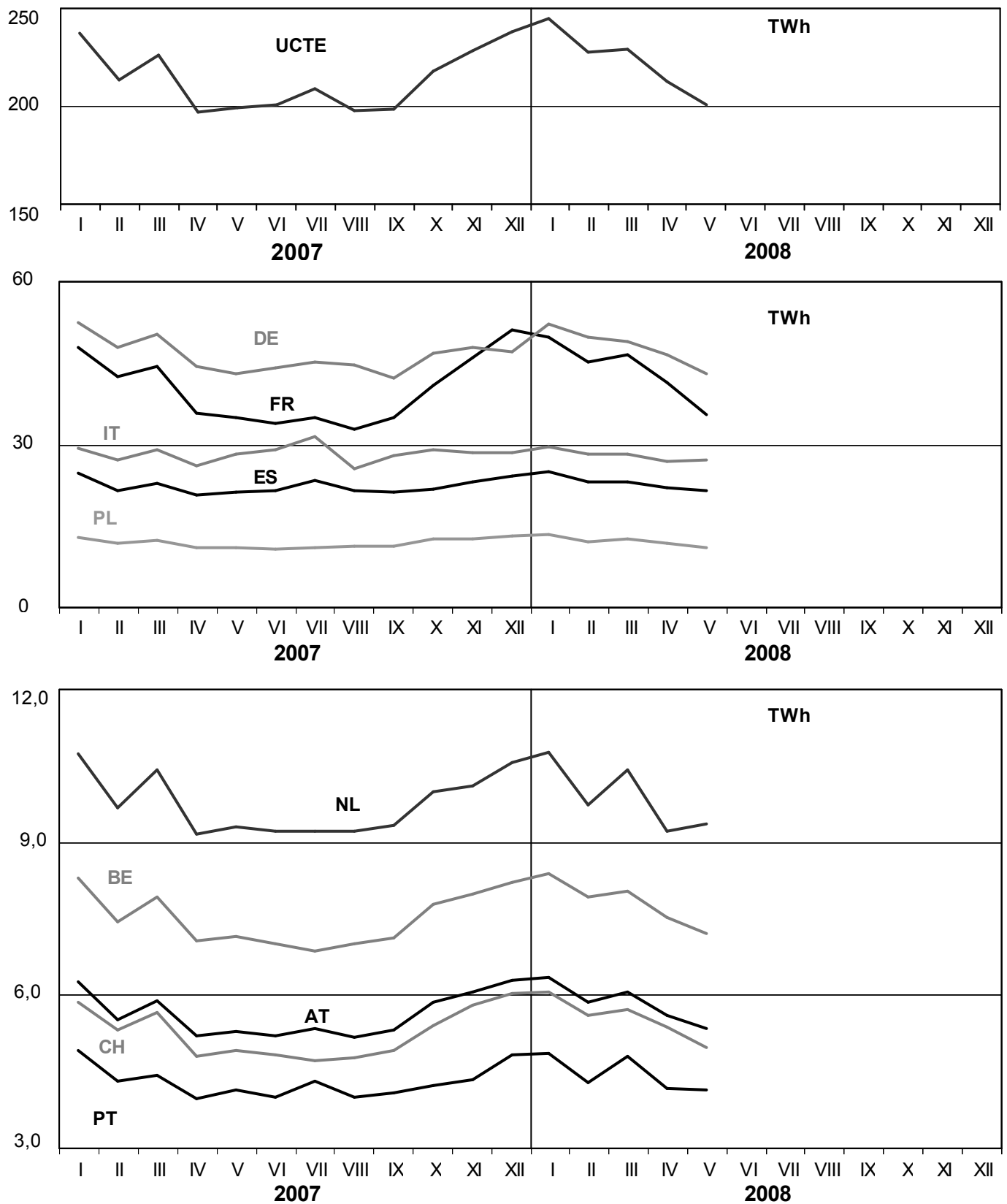
¹ Other III: Albania, Belarus, Denmark East, Great Britain, Morocco, Republic of Moldavia, Norway, Sweden, Republic of Turkey and Ukraine

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

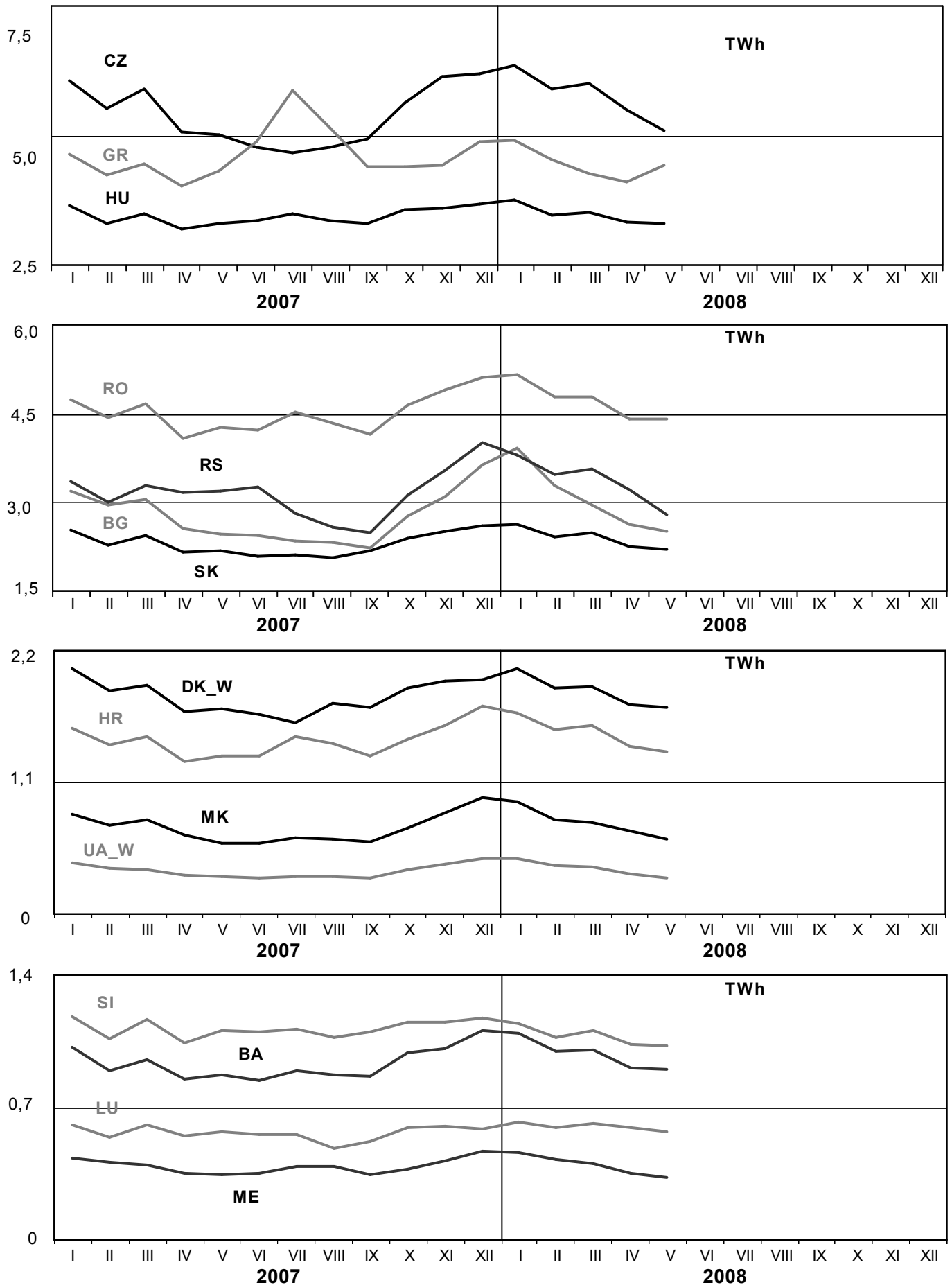
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3

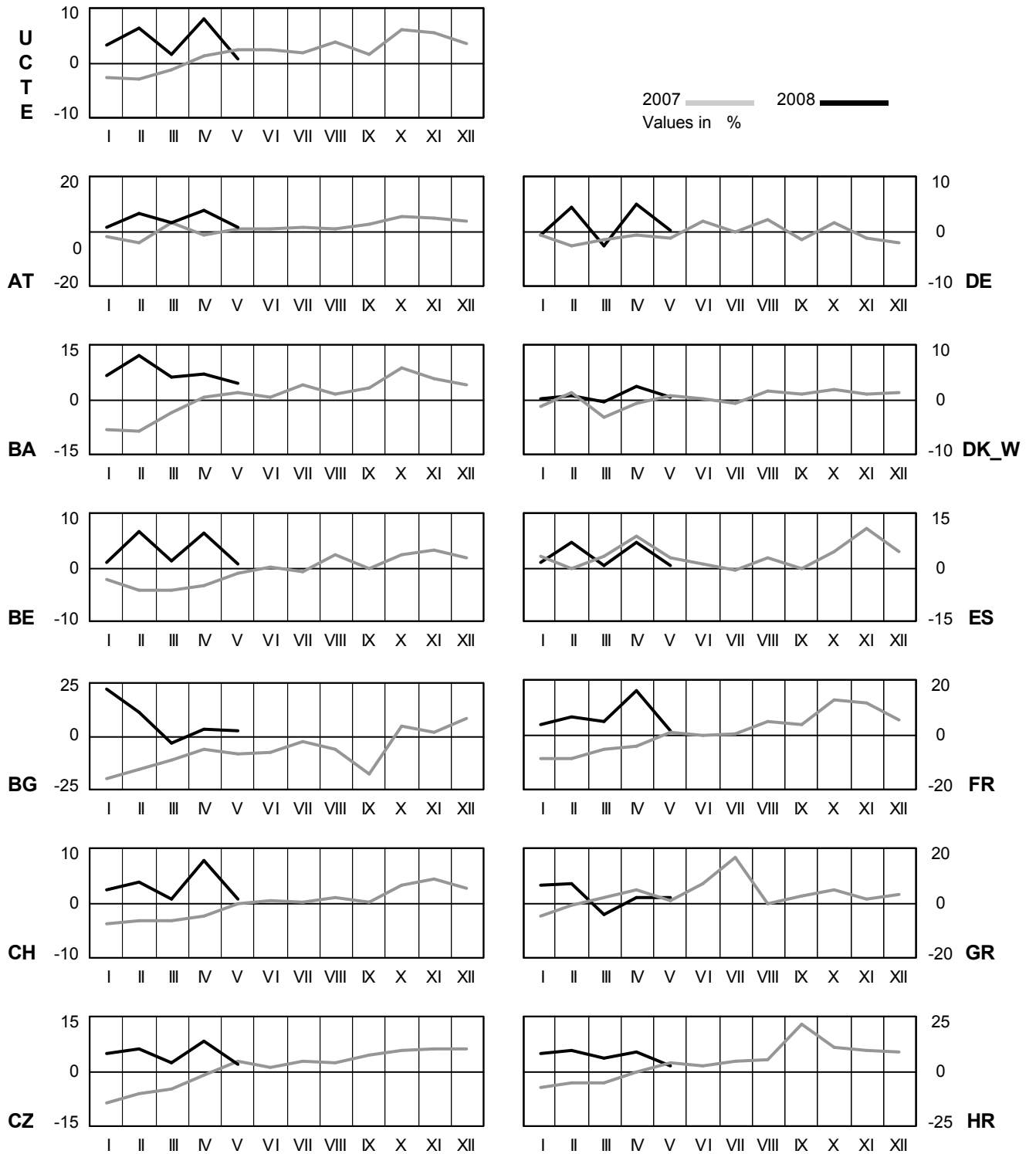
Monthly consumption

May 2008



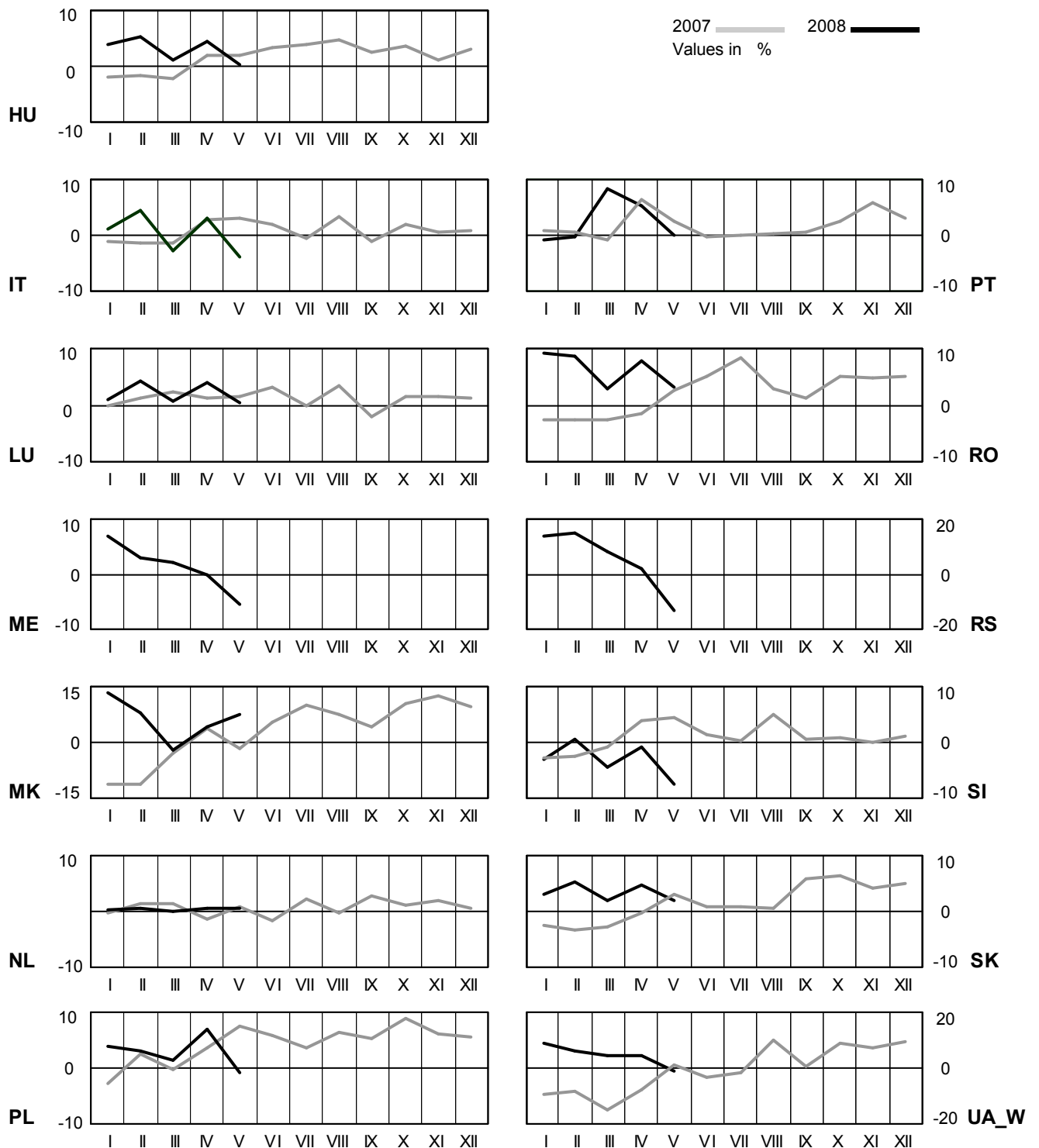
4 Monthly consumption variation

May 2008



4 Monthly consumption variation

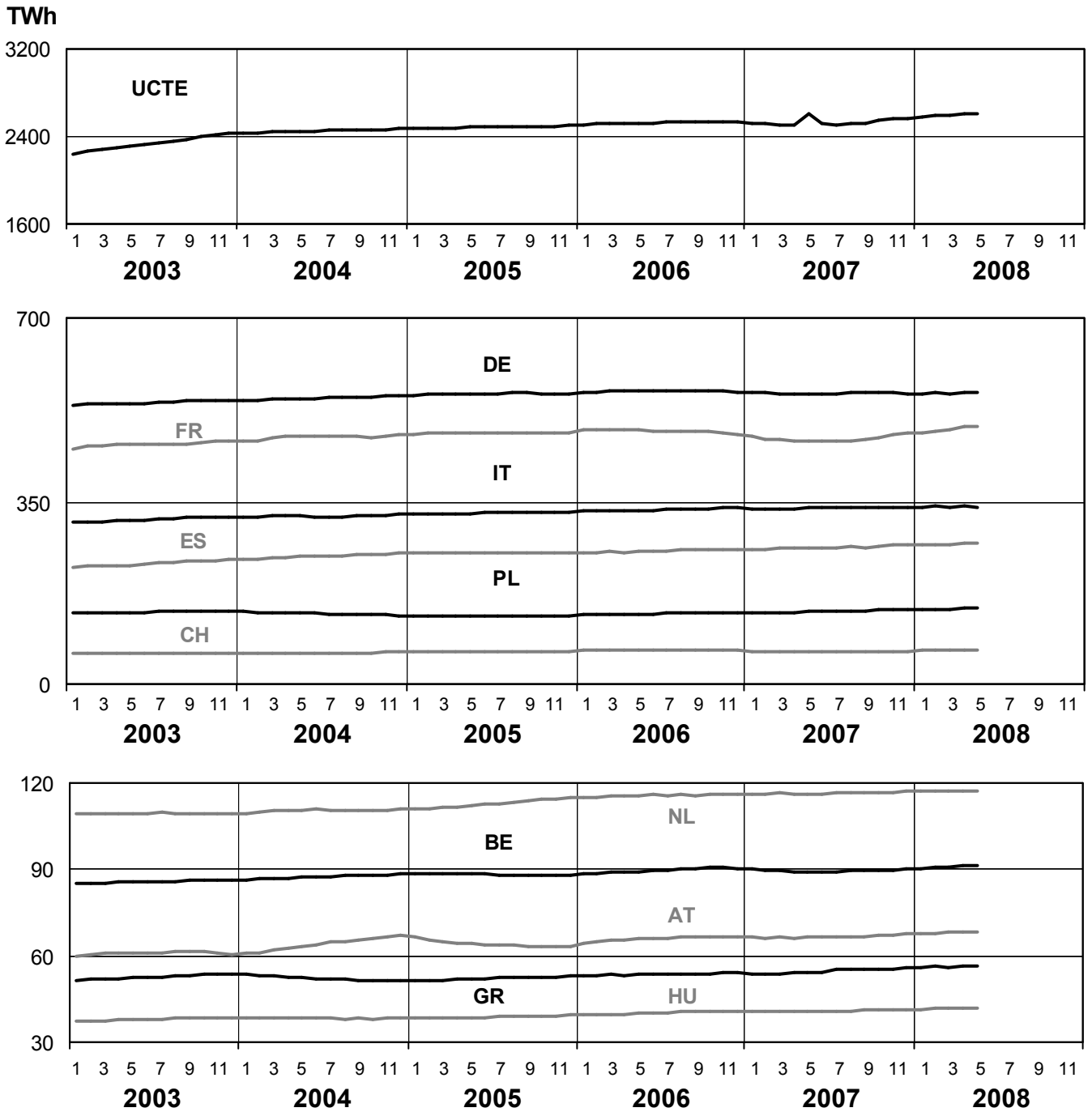
May 2008



5

Consumption of the last 12 months

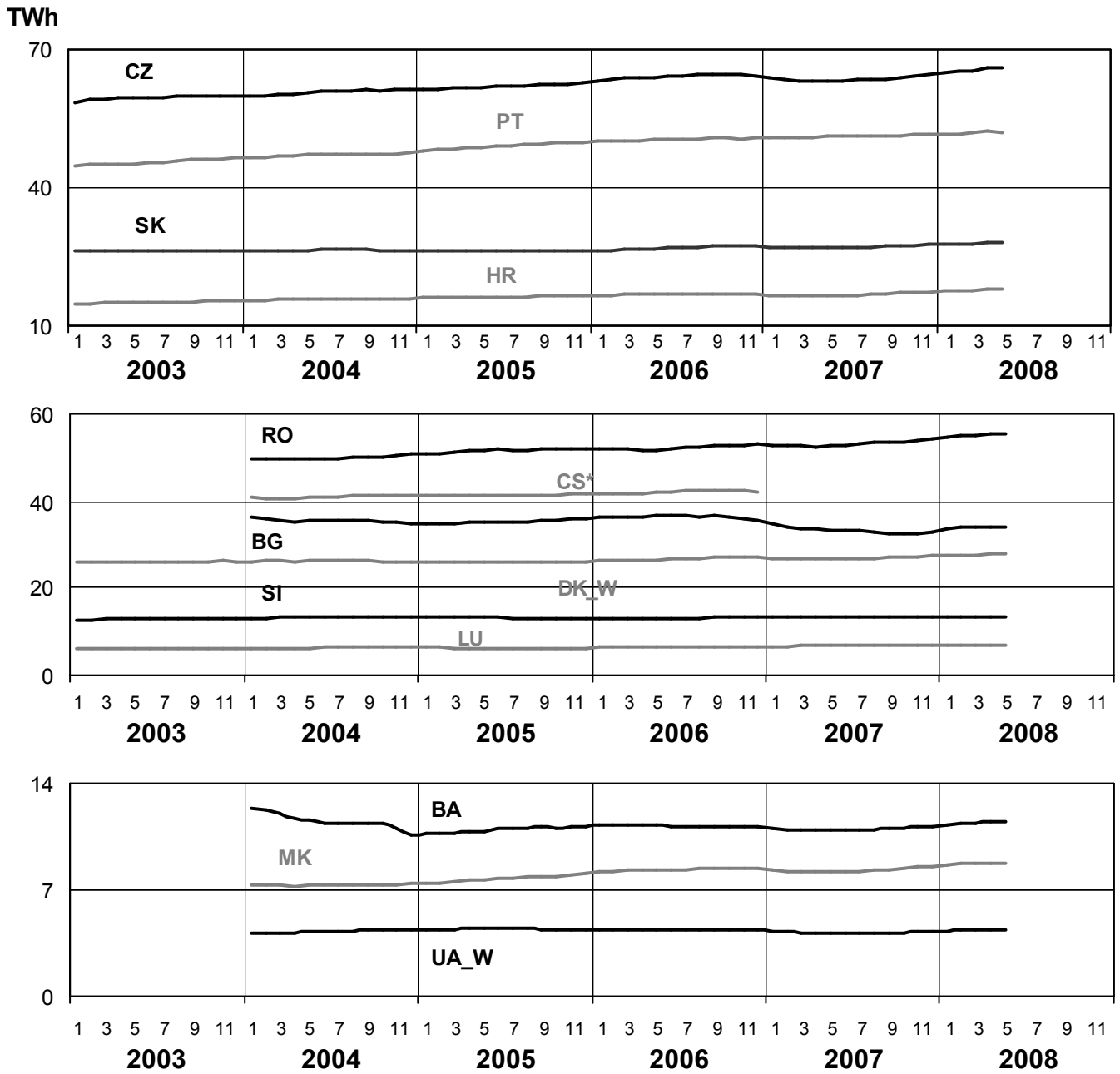
May 2008



5

Consumption of the last 12 months

May 2008

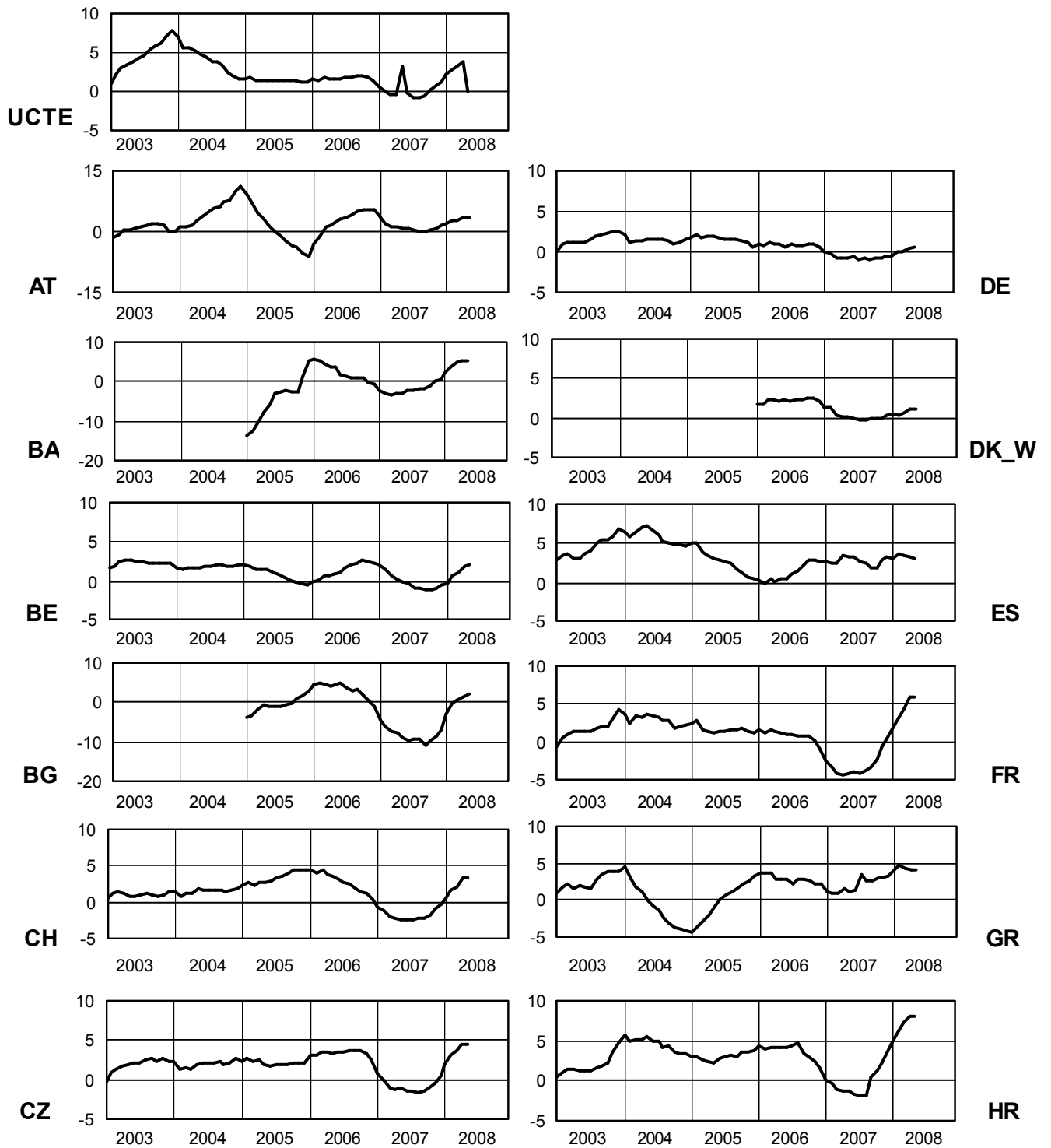


* CS consumption values until December 2006; from 2007 on ME and RS as separate countries

6

Variation of the last 12 months' consumption in %

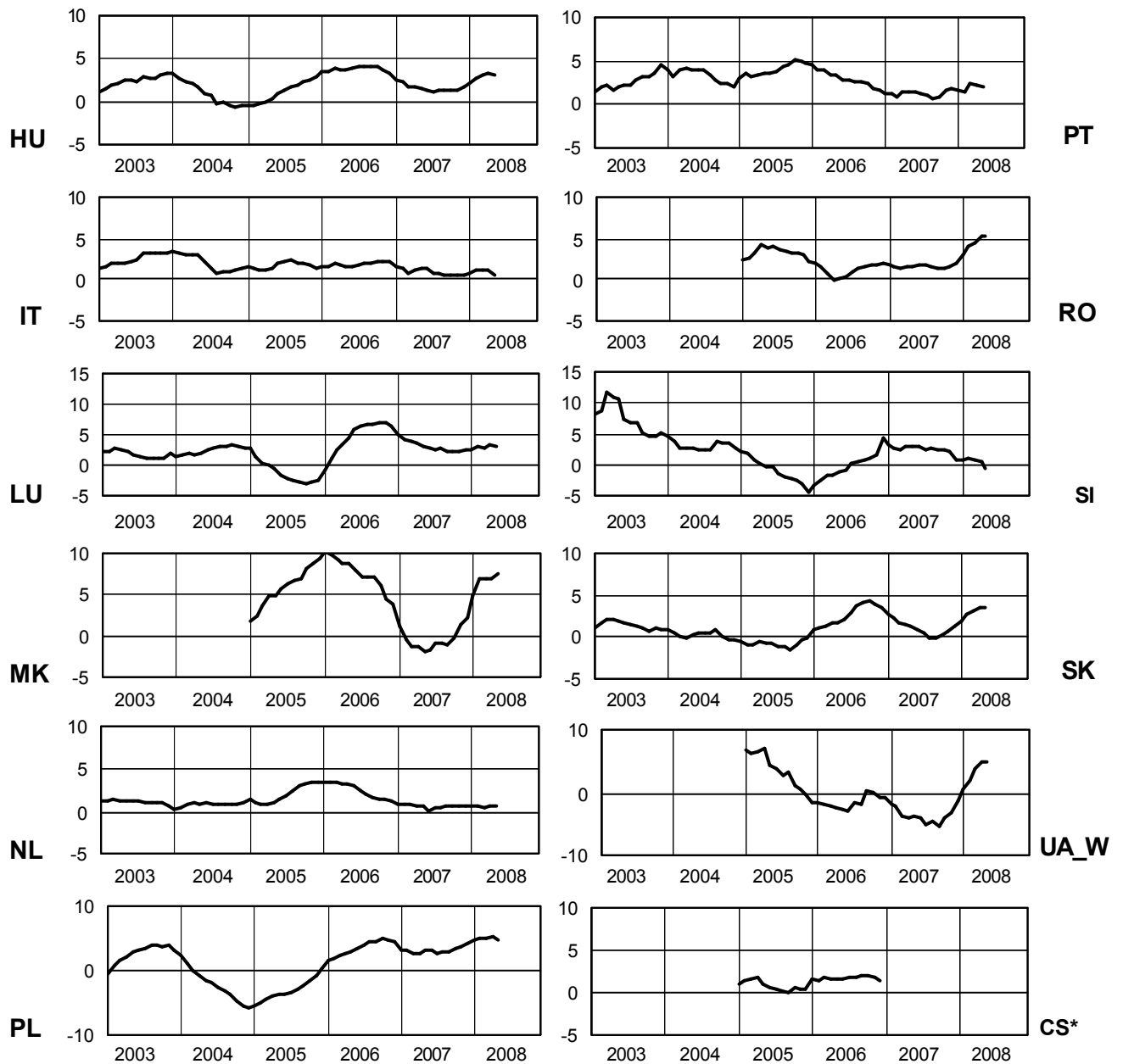
May 2008



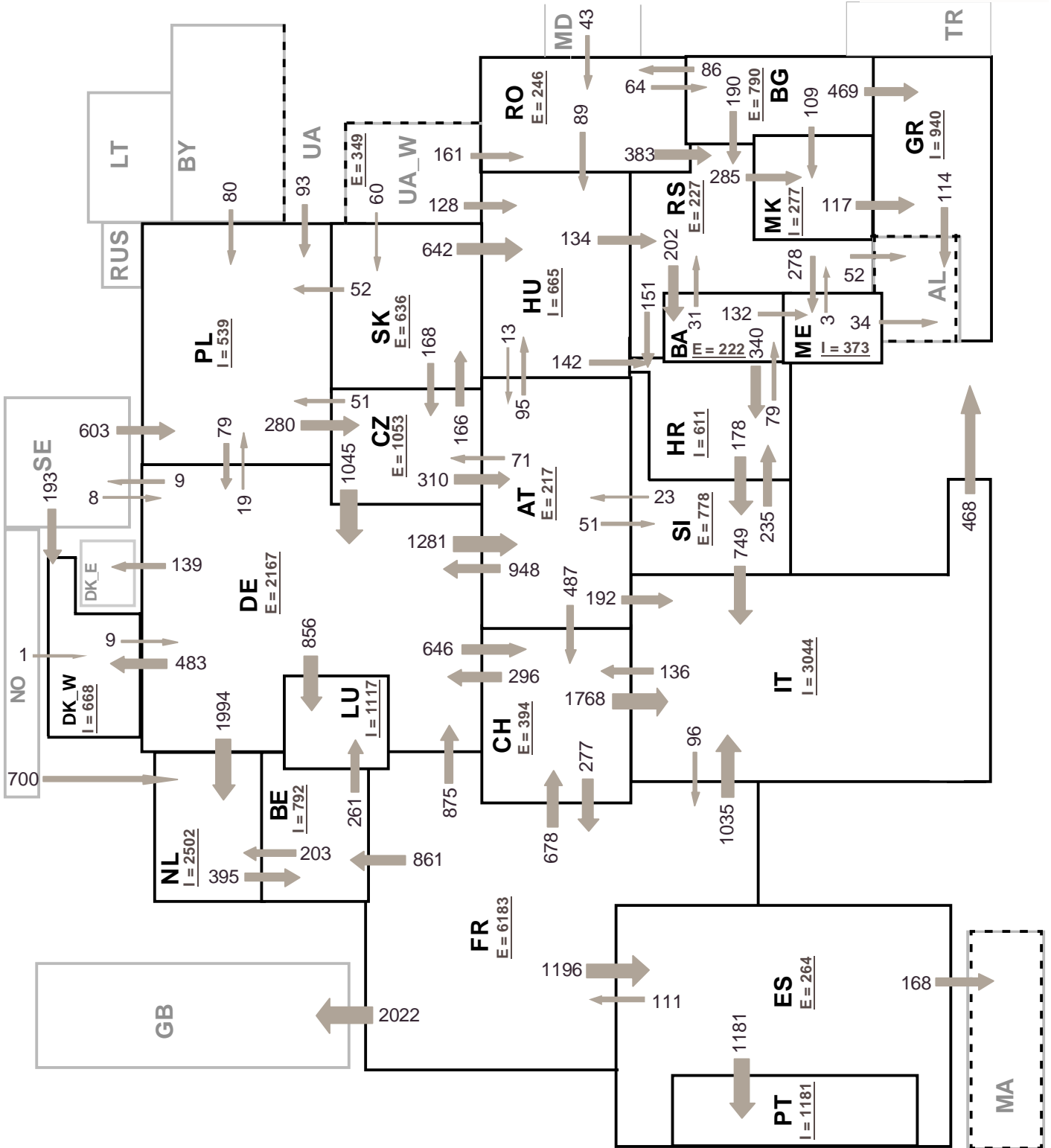
6

Variation of the last 12 months' consumption in %

May 2008



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



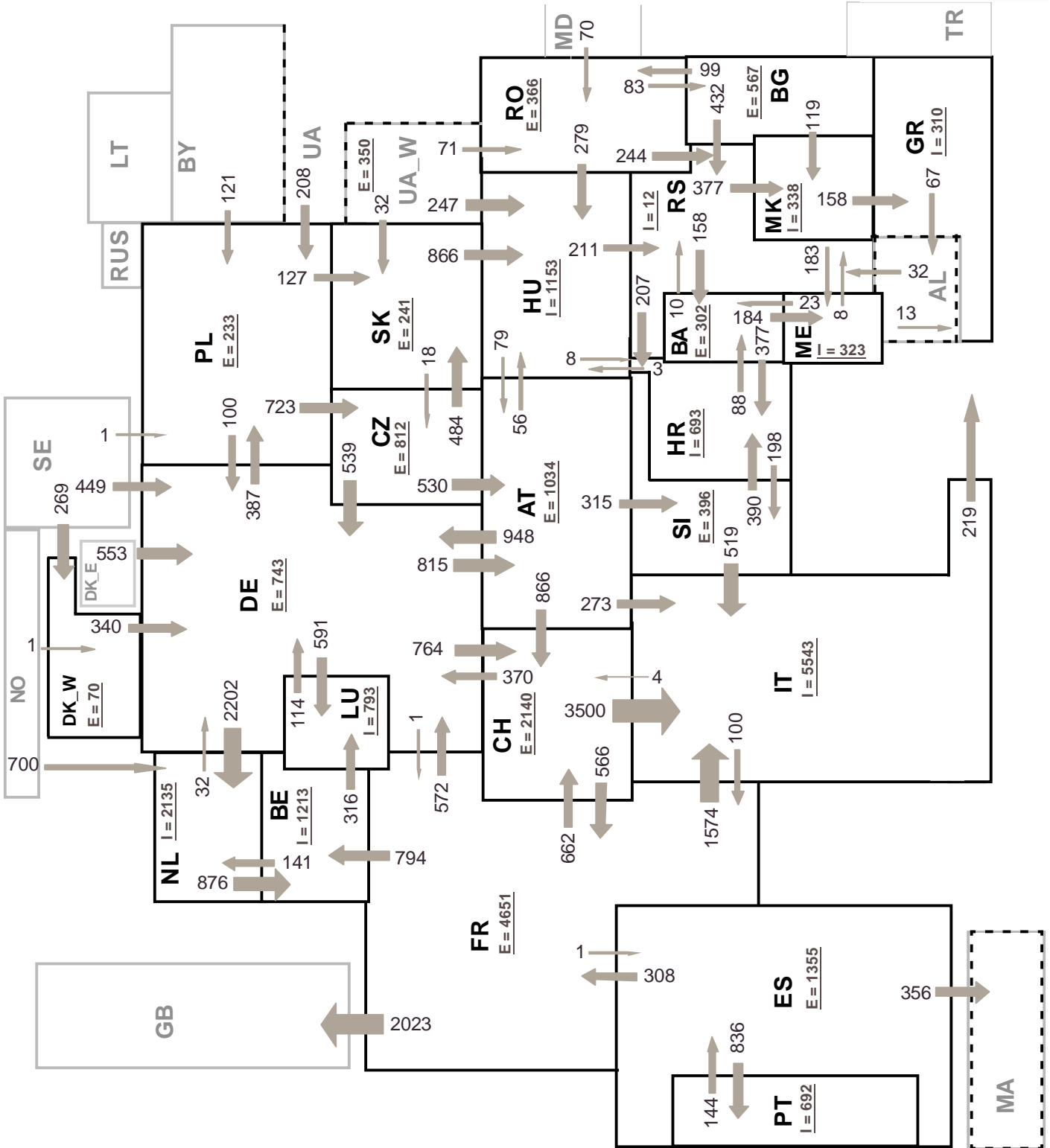
Sum of load flows in MW

UCTE = 24244 MW

Total = 28852 MW

Synchronous operation with UCTE region

I = Import balance
E = Export balance



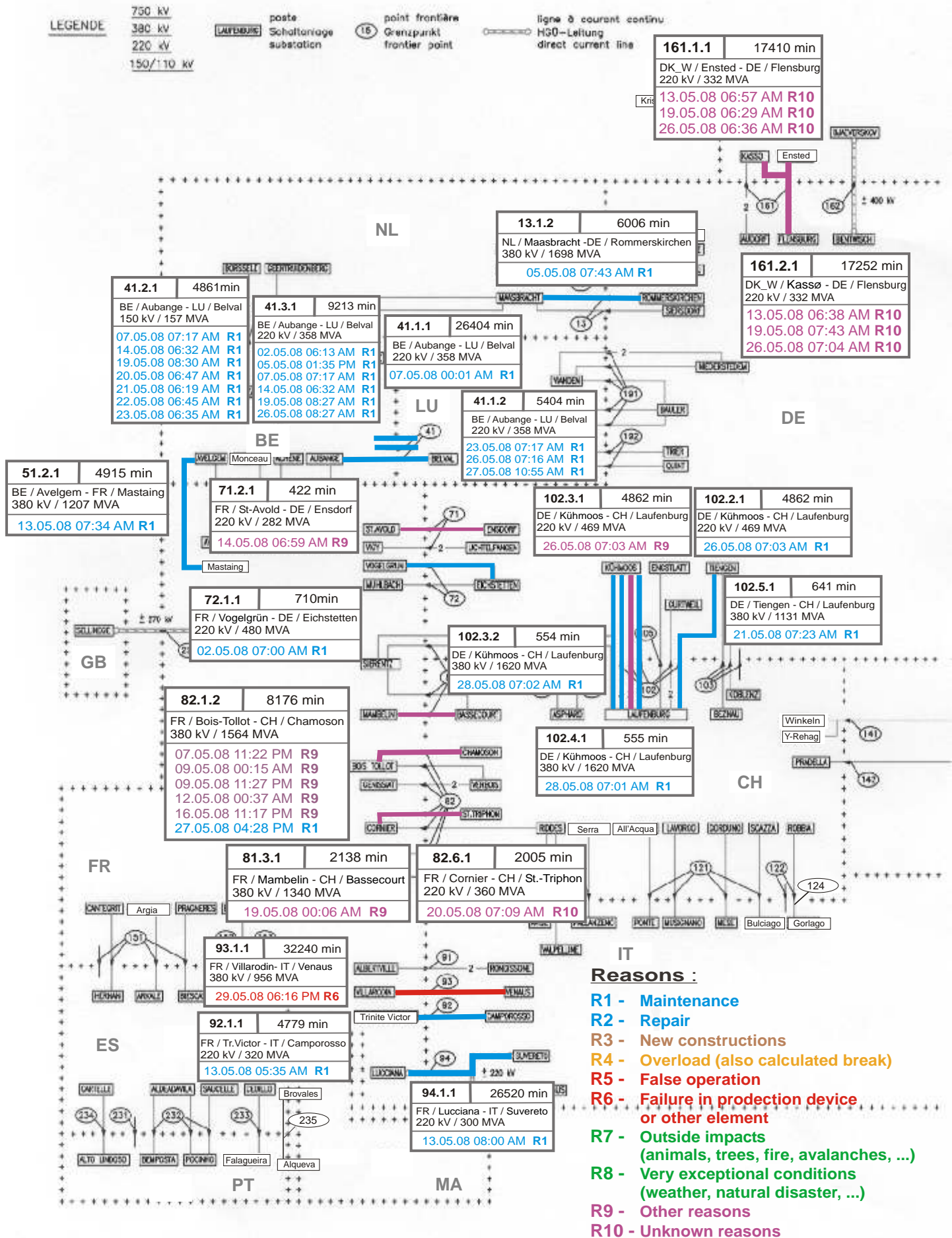
Sum of load flows in MW

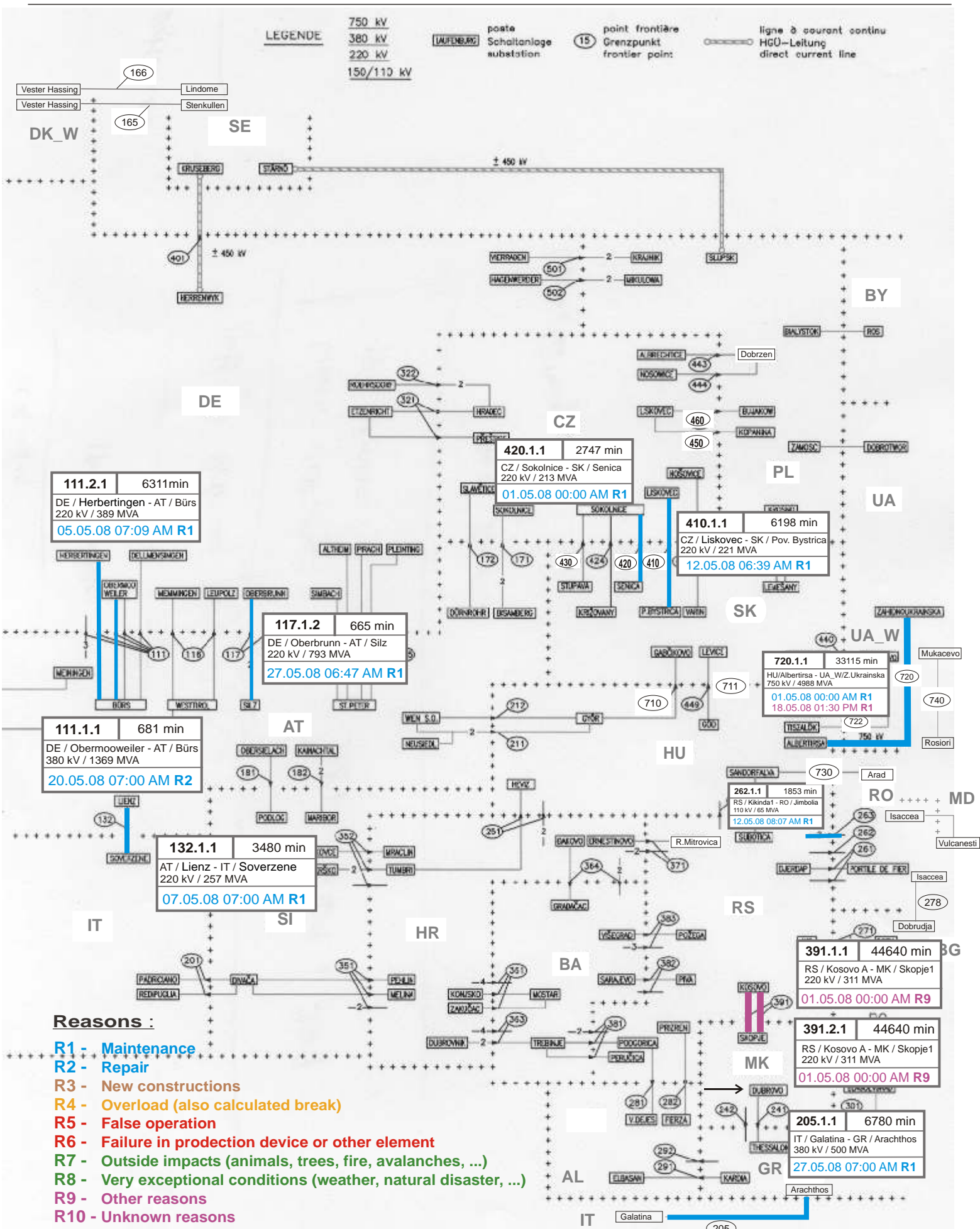
UCTE = 26511 MW

Total = 31724 MW

Synchronous operation with UCTE region

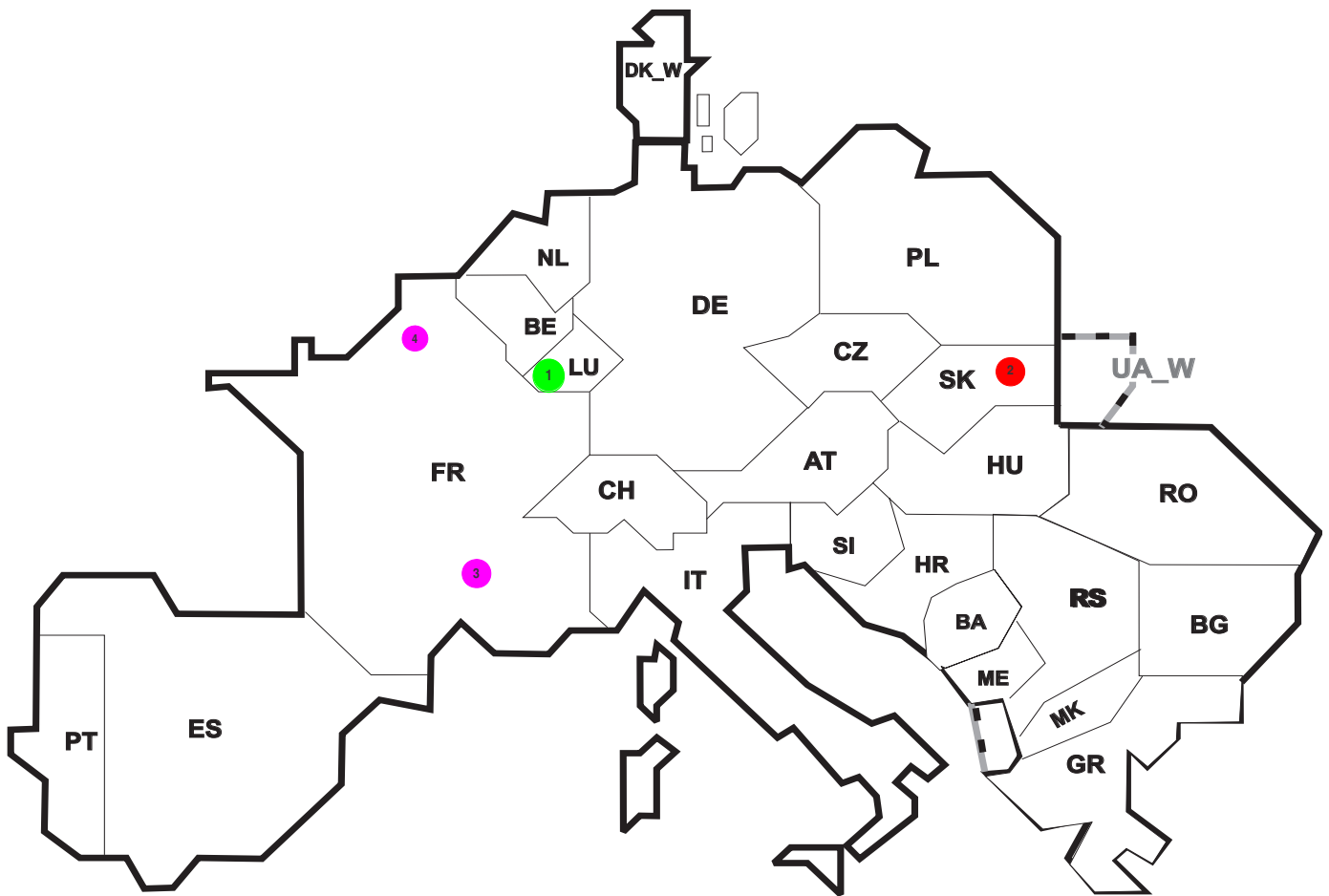
I = Import balance
E = Export balance





Reasons :

- R1 - Maintenance
- R2 - Repair
- R3 - New constructions
- 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



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	LU	Schifflange	R7	6	47	7	0,420
2	SK	Medzibrod	R6	11	32	20	0,200
3	FR	St.Joseph	R9	34	30	67	0,036
4	FR	Mezerolles	R10	6	39	10	0,007

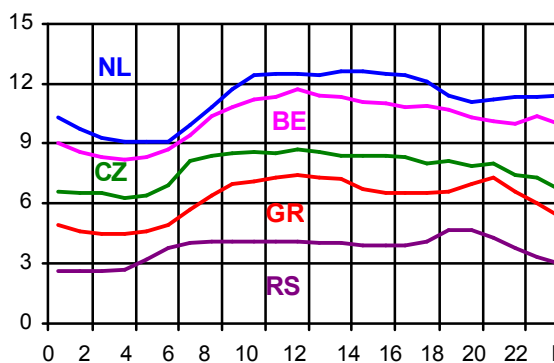
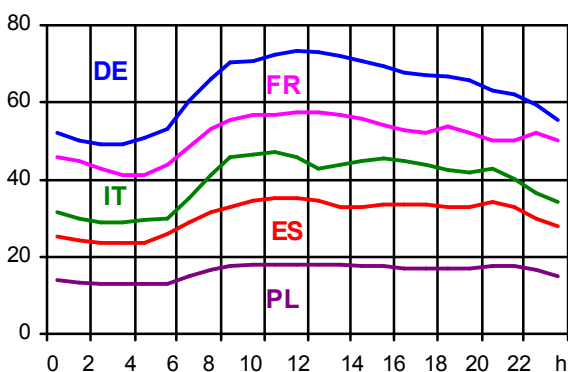
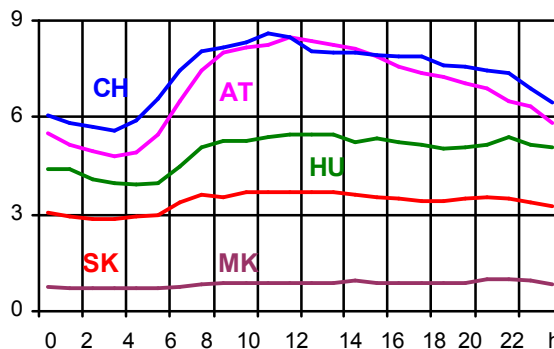
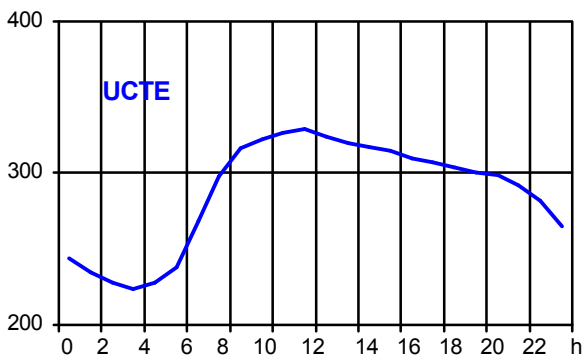
¹ (year [in min] * energy not supplied) / consumption last 12 months

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	555601	736923	2039	601	737	564
BA	323505	231728	306	141	335	141
BE	91563	1436784	206	1297	0	1559
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	2423855	1575985	2241	1865	3752	1664
CZ	1806571	1049729	2507	1452	2833	2075
DE	2901972	1695772	3008	2597	4383	2189
DK_W	908587	100503	577	0	272	0
ES	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
FR	8164916	2486532	9812	3604	9589	4963
GR	32919	486129	0	962	0	288
HR	12423	535342	0	613	0	683
HU	650539	1210805	731	1382	723	1877
IT	194331	4043660	739	3518	333	5771
ME	200256	423058	180	441	180	464
MK	600	252800	16	293	11	351
NL	452809	2241937	375	2901	776	2903
PL	276620	323685	146	695	500	215
PT	445	773238	0	1200	0	700
RO	433259	141682	468	226	634	279
RS	571386	464522	708	468	704	618
SI	642617	455879	1027	300	840	442
SK	615415	346472	978	260	1050	695
UA_W	295076	1800	350	0	350	0

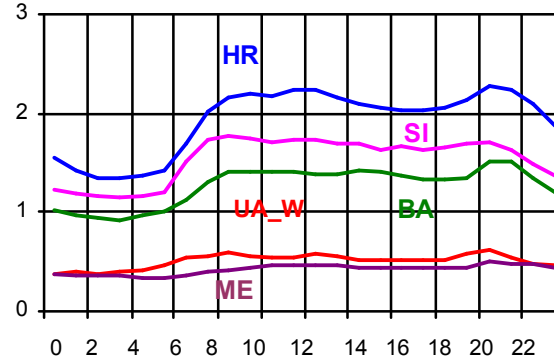
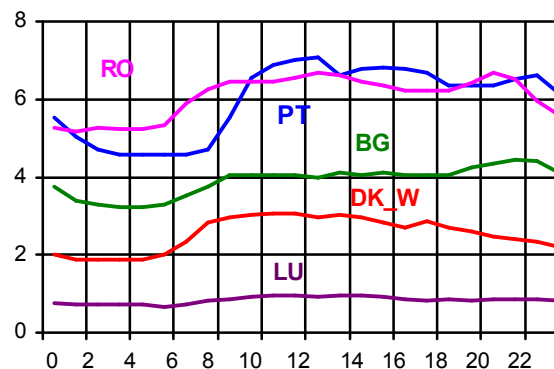
- Control areas can differ from national borders (i.e. German block which includes parts of AT, LU and DK).
- Values are calculated on an hourly base (MWh).
- This values are not the provisional values entered in the VULCANUS system, but the definitive values after an eventual correction during the actual 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 21.05.2008 CET

Values in GW



	Highest load		Load representativity %
	MW	var.% ¹	
AT	8482	8,0	100
BA	1510	3,6	100
BE ²	11656	0,6	100
BG	4467	4,6	100
CH	8623	6,2	100
CZ	8674	9,0	100
DE	73502	0,1	91
DK_W	3089	-1,4	100
ES	35137	-0,3	98
FR	57506	-1,5	100
GR	7368	-4,5	100
HR	2269	4,1	100
HU	5467	1,9	100
IT	46836	-1,3	100
LU	999	20,4	100
ME	501	-4,2	100
MK ³	994	n.a.	100
NL	12601	-15,2	100
PL ⁴	18141	2,0	100
PT	7101	1,6	97
RO	6690	46,8	100
RS	4665	-30,1	100
SI	1771	-8,3	100
SK	3691	8,1	100
UCTE	329262	1,1	
UA_W	621	-5,6	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

Contact

Boulevard Saint-Michel, 15
B-1040 Brussels – Belgium
Tel +32 2 741 69 40
Fax +32 2 741 69 49

info@ucte.org
www.ucte.org