

UCTE



October 2005

Monthly provisional values
union for the co-ordination of transmission of electricity

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¹ Monthly provisional values from the UCTE database as of 26 January 2006

All values are calculated to represent 100% of the national values

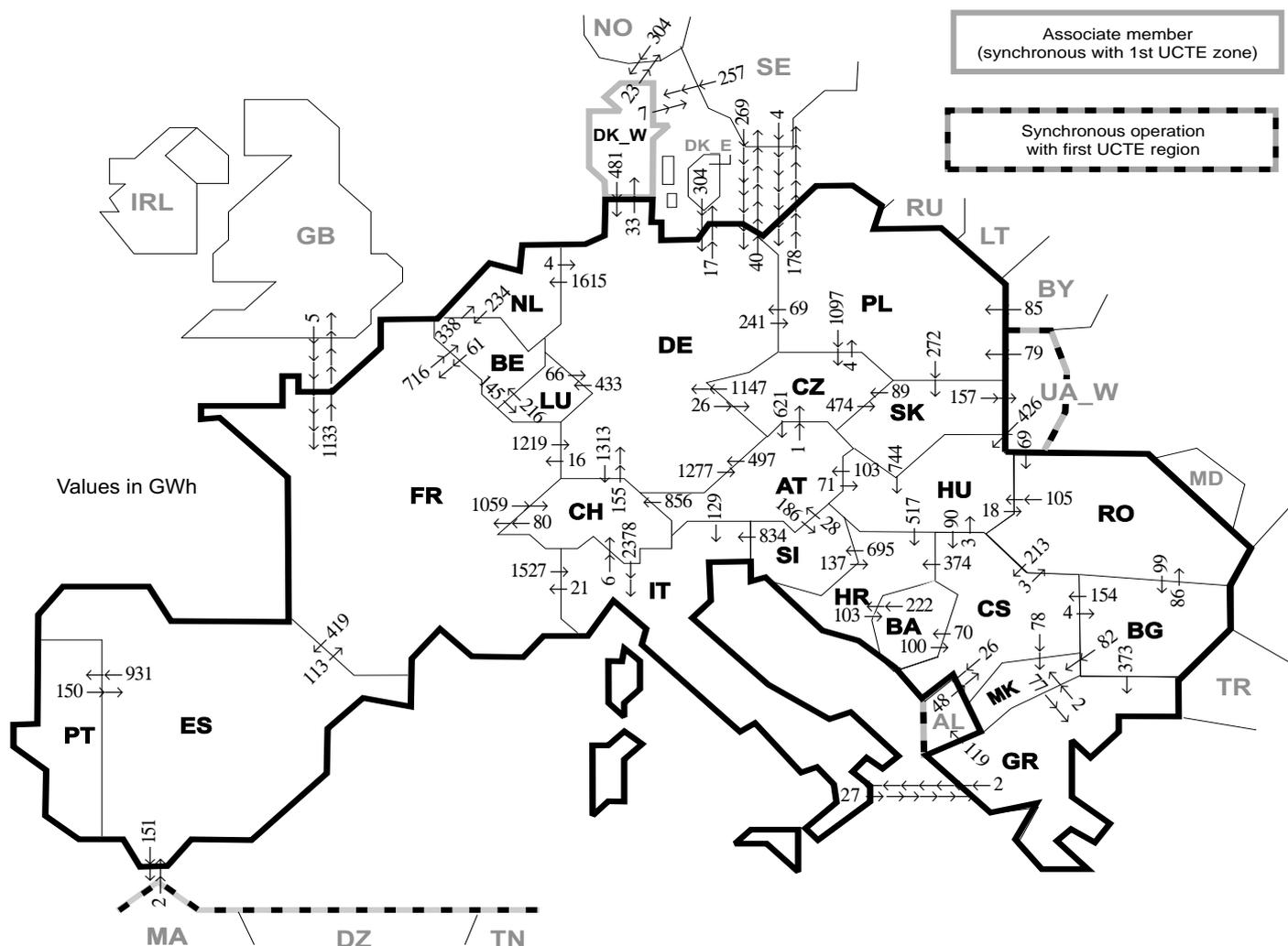
Countries	Net production in GWh							Exchange balance in GWh	Pump in GWh	Consumption in GWh			
	Therm. nuclear	Fossil fuel	Hydro prod	Other renew.	Of which wind	Not identify	Total			monthly	var. [%]	last 12 months	var. [%]
AT	0	2147	2882	0	0	436	5465 ¹	248	281	5432	-1,9	63329	-3,9
BA	0	706	357	0	0	0	1063	-146	0	917	-3,6	11079	-2,7
BE	3542	2835	117	187	15	0	6681 ¹	622	147	7156	-5,1	87019	-0,9
BG	1398	1989	237	0	0	0	3624	-597	63	2964	8,1	35754	0,9
CH	2406	186	2157	79	0	0	4828 ¹	641	249	5220	3,9	62600	4,4
CS	0	2444	981	0	0	0	3425 ¹	38	48	3415	4,3	41494	0,6
CZ	2052	4088	227	6	3	0	6373 ¹	-1033	78	5262	1,6	62333	2,1
DE	13422	29174	1778	3253	2337	0	47627 ¹	-800	793	46034	-1,8	556459	1,4
ES	4736	12098	1377	2013	1894	0	20224 ¹	-675	523	19026	-6,4	248263	-0,2
FR	35738	3596	3832	336	104	0	43502	-5893	720	36889	-3,5	477876	1,4
GR	0	3412	323	117	108	0	3852 ¹	352	95	4109	3,6	52545	2,2
HR	0	344	537	1	1	0	882 ¹	448	5	1325	5,4	16403	3,6
HU	984	1670	20	0	0	0	2674 ¹	621	0	3295	1,3	38585	1,2
IT	0	19384	3652	521	96	0	23557 ¹	4816	791	27582	-0,5	327771	1,4
LU	0	279	70	10	6	0	359	296	94	560	-1,1	6185	-2,8
MK	0	474	88	0	0	0	562 ¹	84	0	646	12,3	7924	8,2
NL	334	7150	0	499	176	0	7983 ¹	1715	0	9698	3,2	114015	3,2
PL	0	12407	236	0	0	0	12643 ¹	-1204	205	11234	0,1	129719	-1,7
PT	0	2688	203	358	183	0	3249 ¹	791	45	3994	2,7	49221	4,2
RO	490	2477	1541	0	0	0	4508 ¹	-241	0	4267	0,8	51887	3,4
SI	448	416	373	0	0	0	1237	-122	0	1115	-2,6	13004	-2,6
SK	1435	596	226	1	1	224	2482 ¹	-244	16	2222	0,3	26154	-0,9
UCTE	66985	110560	21214	7381	4924	660	206800¹	-283	4153	202362	-1,3	2479619	1,1
DK_W	0	1228	1	466	341	0	1695 ¹	81	0	1776	-0,8	21219	n.a.
UA_W ²	0	700	4	0	0	0	704 ¹	-338	0	366	-2,4	4387	0,8

¹ Including deliveries from industry

² UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

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	CS	CZ	DE	ES	FR	GR	HR	HU	IT	LU	MK	NL	PL	PT	RO	SI	SK	DK_W	UA_W ²
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
Fossil fuel	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98	100	100	100	96	100	100	100	100	100
Hydro prod	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100	100
Other renew.	n.a.	100	100	100	100	100	100	100	100	100	100	100	n.a.	100	99	100	100	n.a.	100	100	100	100	100	100
Not identify	n.a.	100	100	100	100	100	100	100	100	100	100	100	n.a.	100	n.a.	100	100	n.a.	100	100	100	100	100	100
Consumption	100	100	100	100	100	100	100	100	98	100	100	100	100	100	99	100	100	100	97	100	95	100	100	100



Exporting countries	Importing countries																			Sum export						
	AT	BA	BE	BG	CH	CS	CZ	DE	ES	FR	GR	HR	HU	IT	LU	MK	NL	PL	PT		RO	SI	SK	DK_W	UA_W2	Other III ¹
AT	-	-	-	-	856	-	1	497	-	-	-	71	129	-	-	-	-	-	-	-	186	-	-	-	-	1740
BA	-	-	-	-	-	100	-	-	-	-	-	222	-	-	-	-	-	-	-	-	-	-	-	-	-	322
BE	-	-	-	-	-	-	-	-	61	-	-	-	-	145	-	338	-	-	-	-	-	-	-	-	-	544
BG	-	-	-	-	154	-	-	-	-	373	-	-	-	82	-	-	-	-	-	86	-	-	-	-	0	695
CH	0	-	-	-	-	-	155	-	80	-	-	-	2378	-	-	-	-	-	-	-	-	-	-	-	-	2613
CS	-	70	-	4	-	-	-	-	-	-	-	374	3	-	78	-	-	-	3	-	-	-	-	-	26	558
CZ	621	-	-	-	-	-	-	1147	-	-	-	-	-	-	-	-	4	-	-	-	474	-	-	-	-	2246
DE	1277	-	-	-	1313	-	26	-	16	-	-	-	-	433	-	1615	241	-	-	-	-	33	-	57	-	5011
ES	-	-	-	-	-	-	-	-	-	113	-	-	-	-	-	-	-	-	931	-	-	-	-	-	151	1195
FR	-	-	716	-	1059	-	1219	419	-	-	-	-	1527	-	-	-	-	-	-	-	-	-	-	-	1133	6073
GR	-	-	-	0	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	119	123
HR	-	103	-	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	695	-	-	-	-	798
HU	103	-	-	-	90	-	-	-	-	-	-	517	-	-	-	-	-	-	-	18	0	-	0	-	-	728
IT	0	-	-	6	-	-	-	-	-	21	27	-	-	-	-	-	-	-	-	-	0	-	-	-	-	54
LU	-	-	216	-	-	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	282
MK	-	-	-	0	0	-	-	-	-	-	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77
NL	-	-	234	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238
PL	-	-	-	-	-	-	1097	69	-	-	-	-	-	-	-	-	-	-	-	-	272	-	0	178	-	1616
PT	-	-	-	-	-	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150
RO	-	-	-	99	-	213	-	-	-	-	-	-	105	-	-	-	-	-	-	-	-	-	-	0	0	417
SI	28	-	-	-	-	-	-	-	-	-	-	137	-	834	-	-	-	-	-	-	-	-	-	-	-	999
SK	-	-	-	-	-	-	89	-	-	-	-	744	-	-	-	-	-	0	-	-	-	-	-	157	-	990
DK_W	-	-	-	-	-	-	481	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	511
UA_W ²	-	-	-	-	-	-	-	-	-	-	-	426	-	-	-	-	79	-	69	0	-	-	-	-	-	574
Other III ¹	-	-	-	0	48	-	573	2	5	0	0	-	-	-	-	-	89	-	0	-	-	561	-	-	1278	
Sum imp	2029	173	1166	103	3234	605	1213	4211	571	296	477	1250	1349	4870	578	162	1953	413	931	176	881	746	594	157	1694	29832

Sum of physical energy flows between UCTE countries = 25615GWh

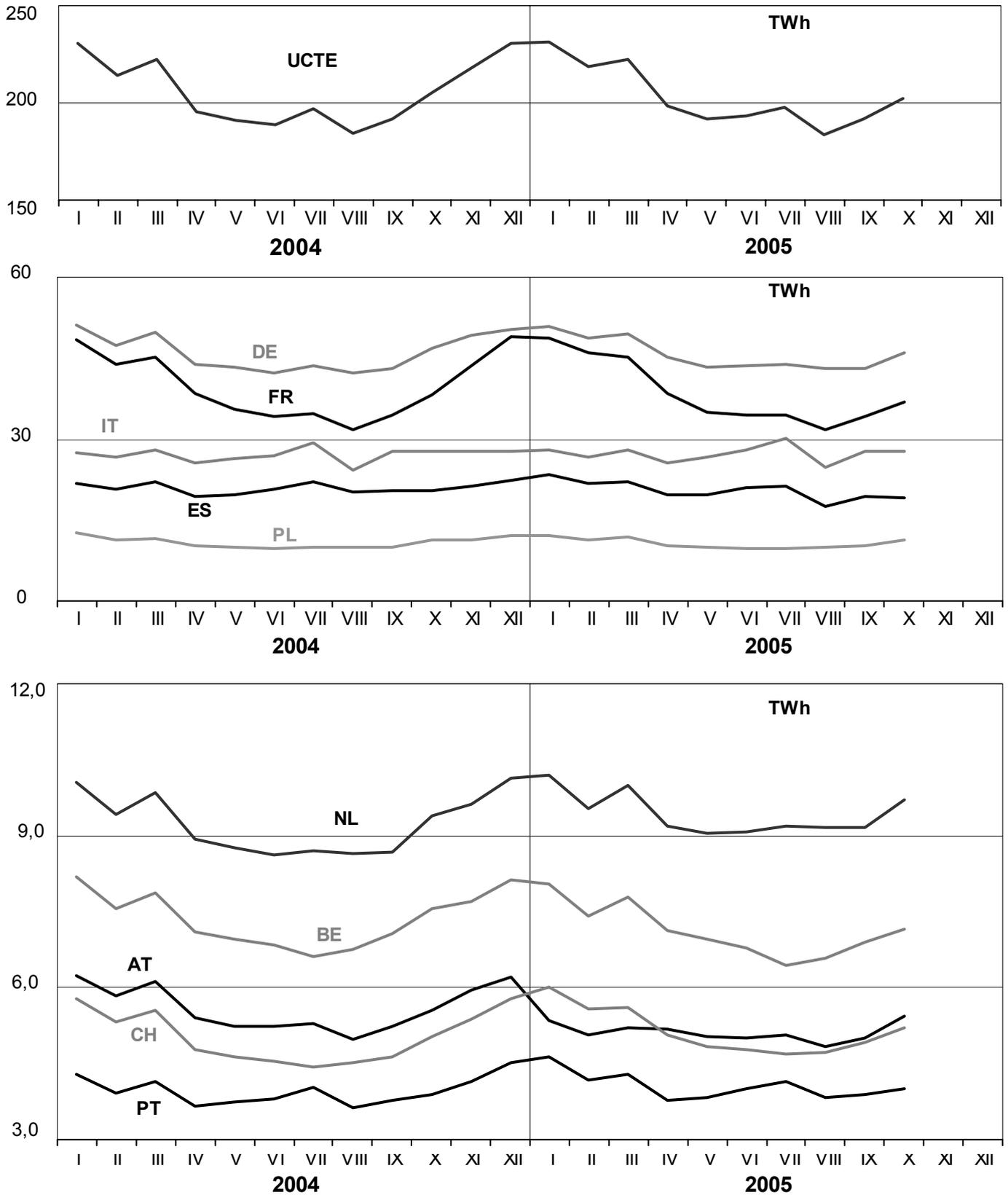
Total physical energy flows = 29832GWh

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

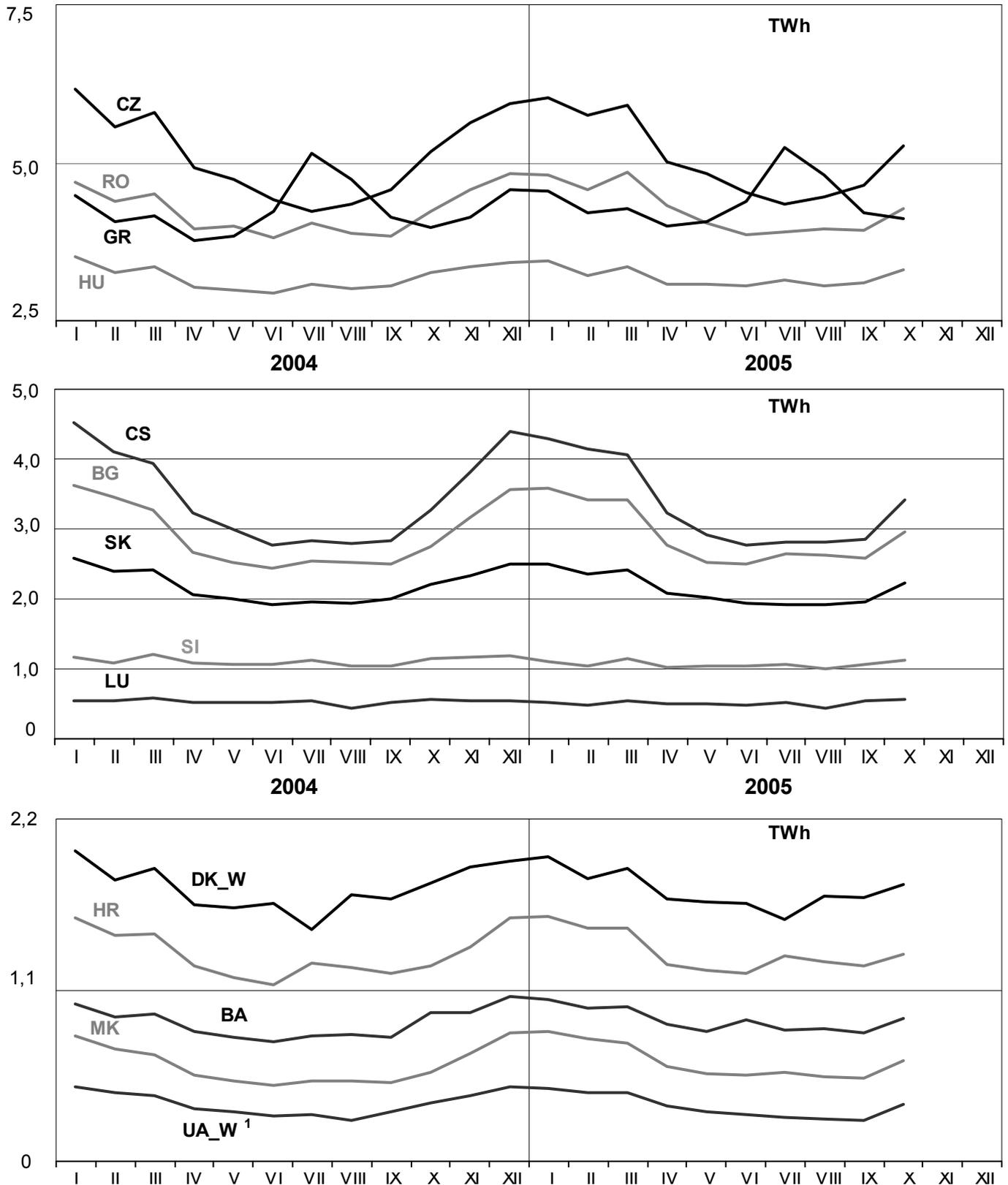
² UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

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.

All values are calculated to represent 100% of the national values



All values are calculated to represent 100% of the national values

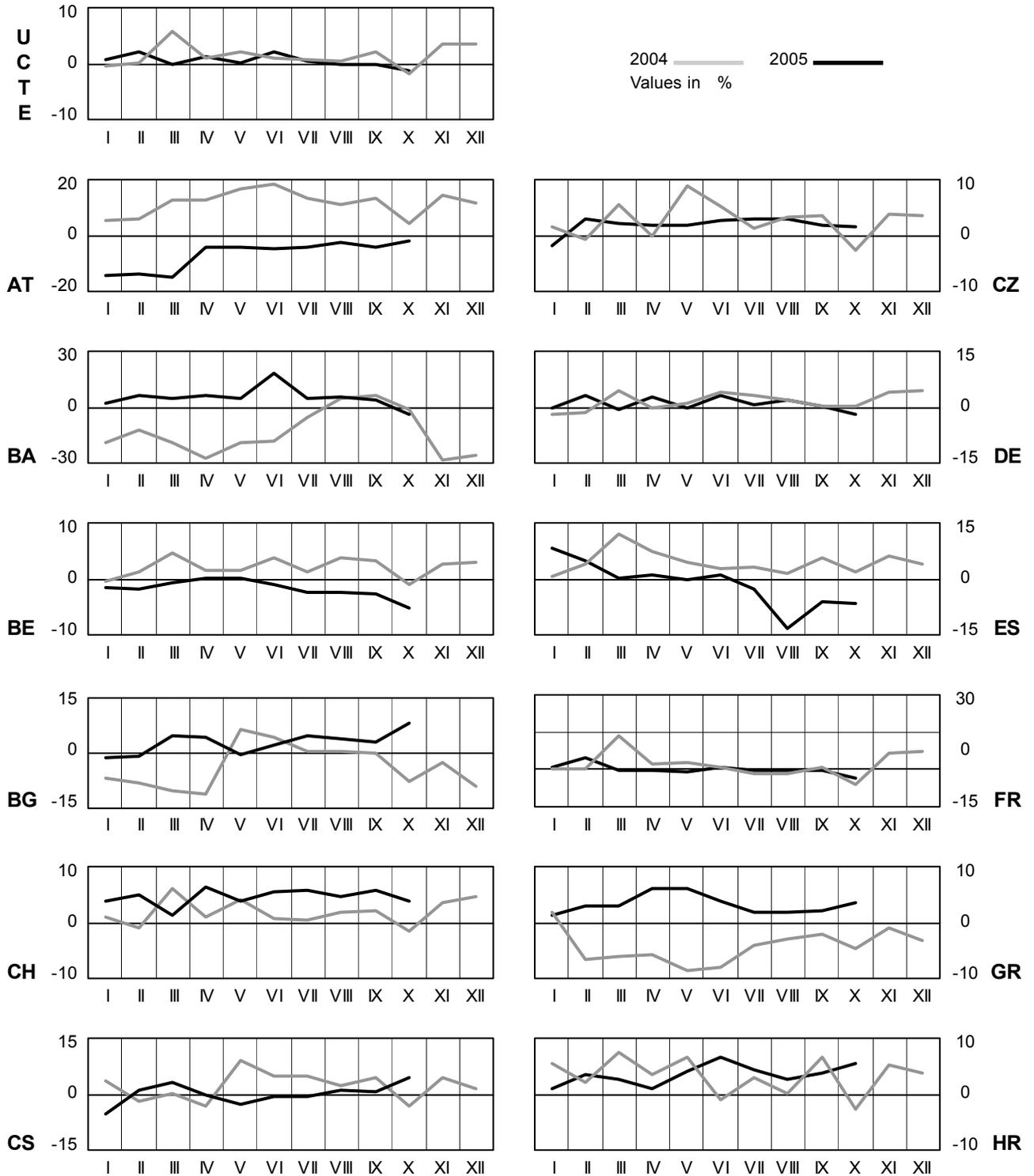


¹ UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

4 Monthly consumption variation

October 2005

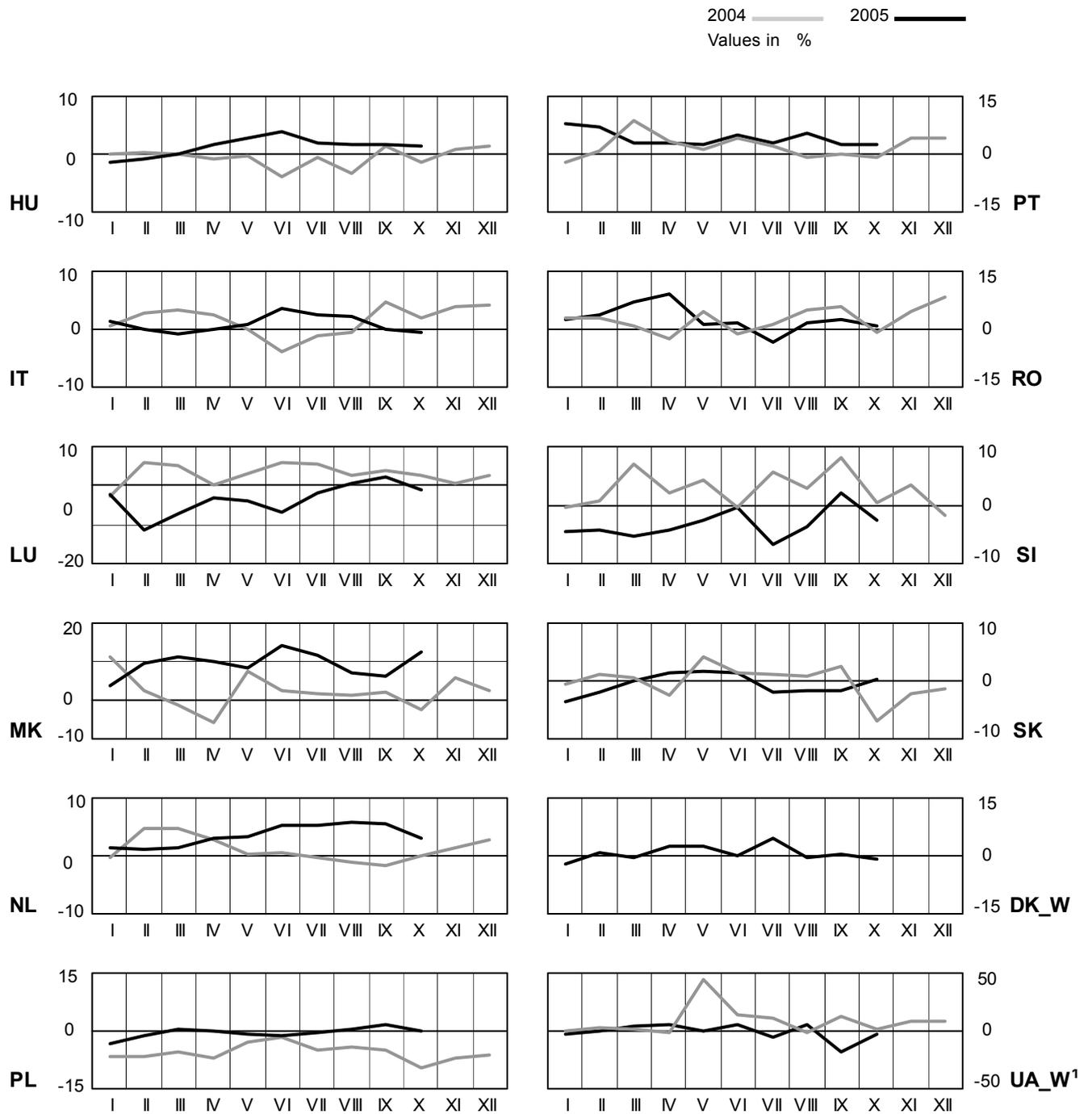
All values are calculated to represent 100% of the national values



4 Monthly consumption variation

October 2005

All values are calculated to represent 100% of the national values



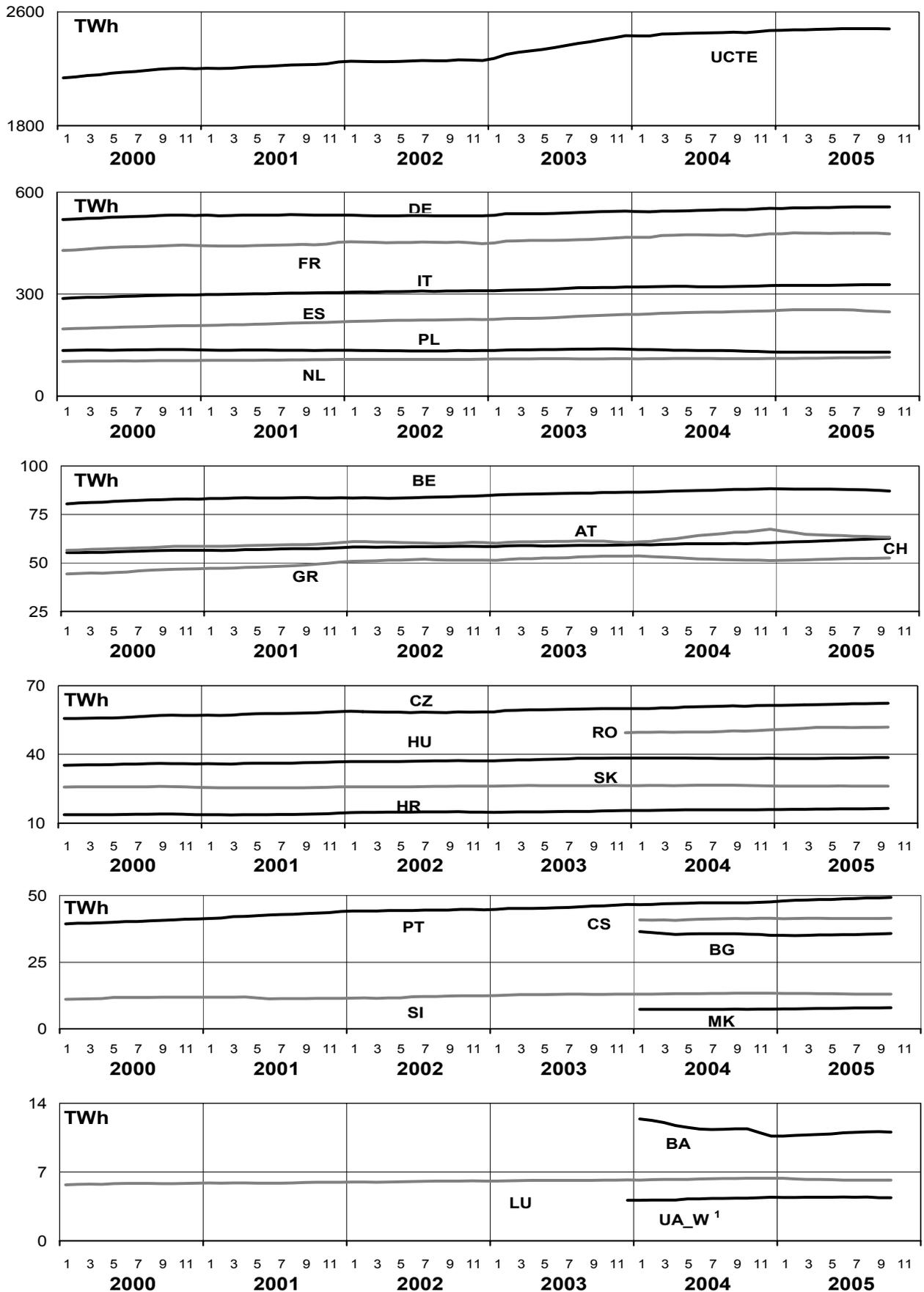
¹ UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

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Consumption of the last 12 months

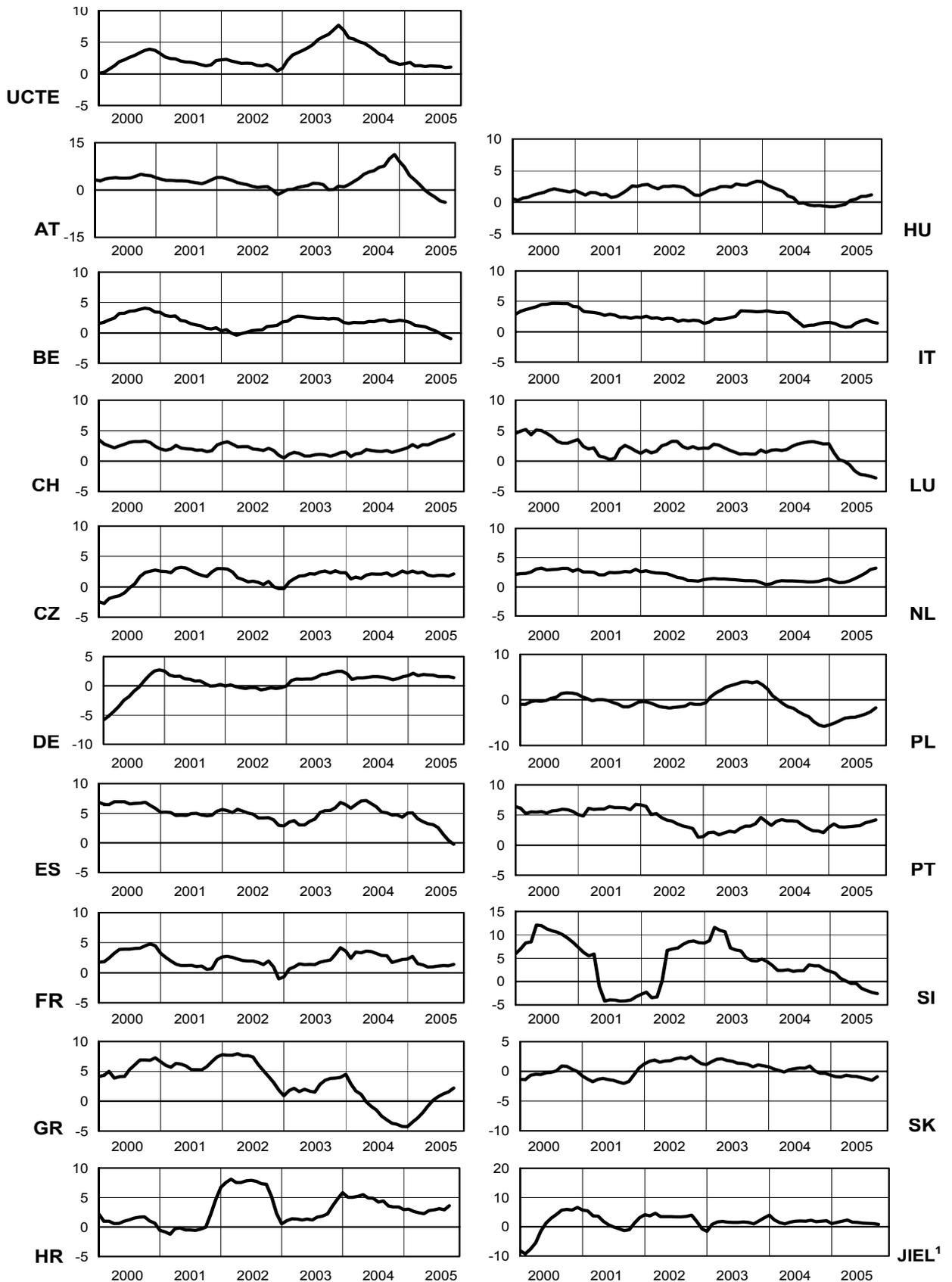
October 2005

All values are calculated to represent 100% of the national values

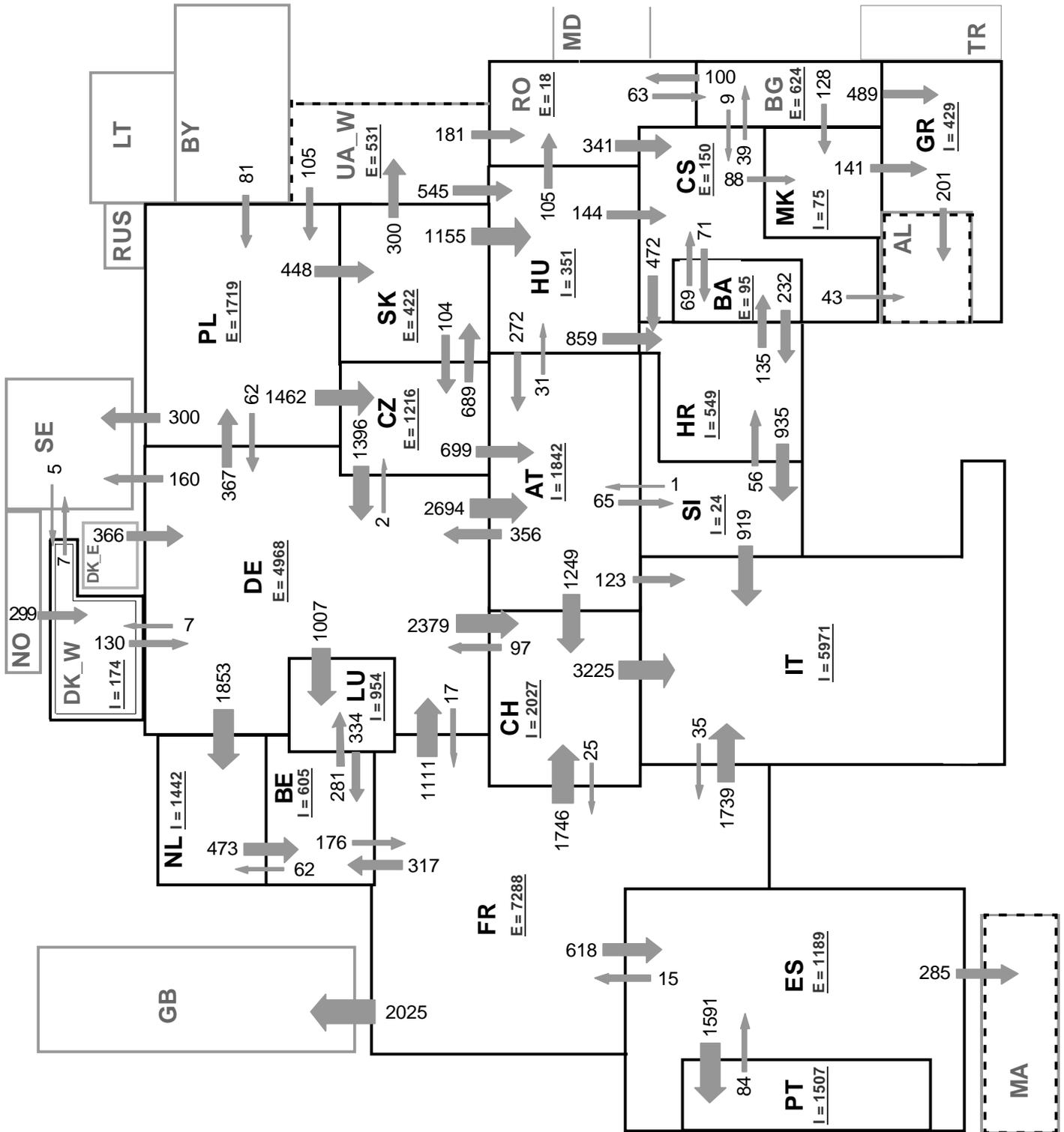


¹ UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

All values are calculated to represent 100% of the national values



¹ JIEL = FRY + FYROM (Federal Republic of Yugoslavia and former Yugoslav Republic of Macedonia)



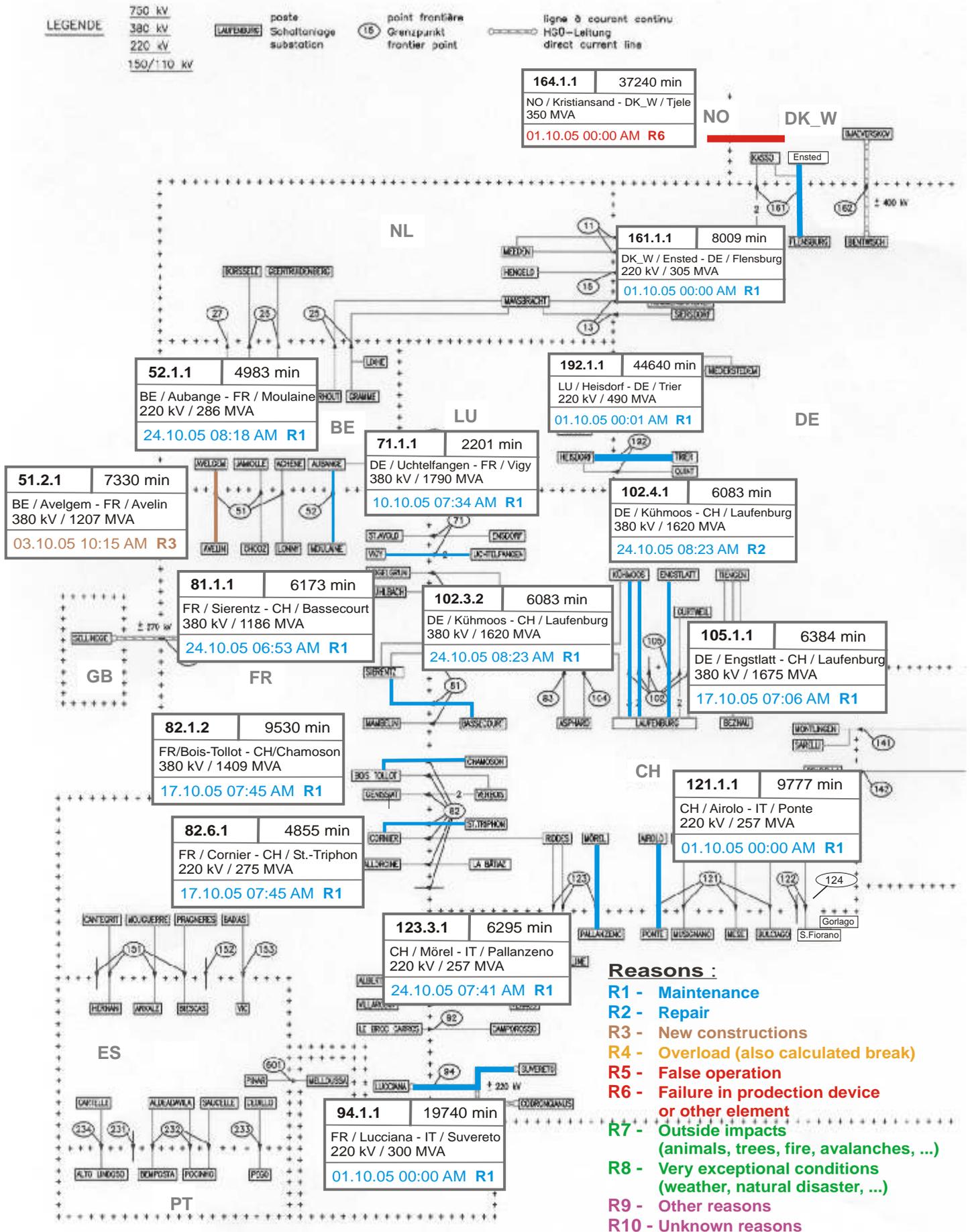
Associate member

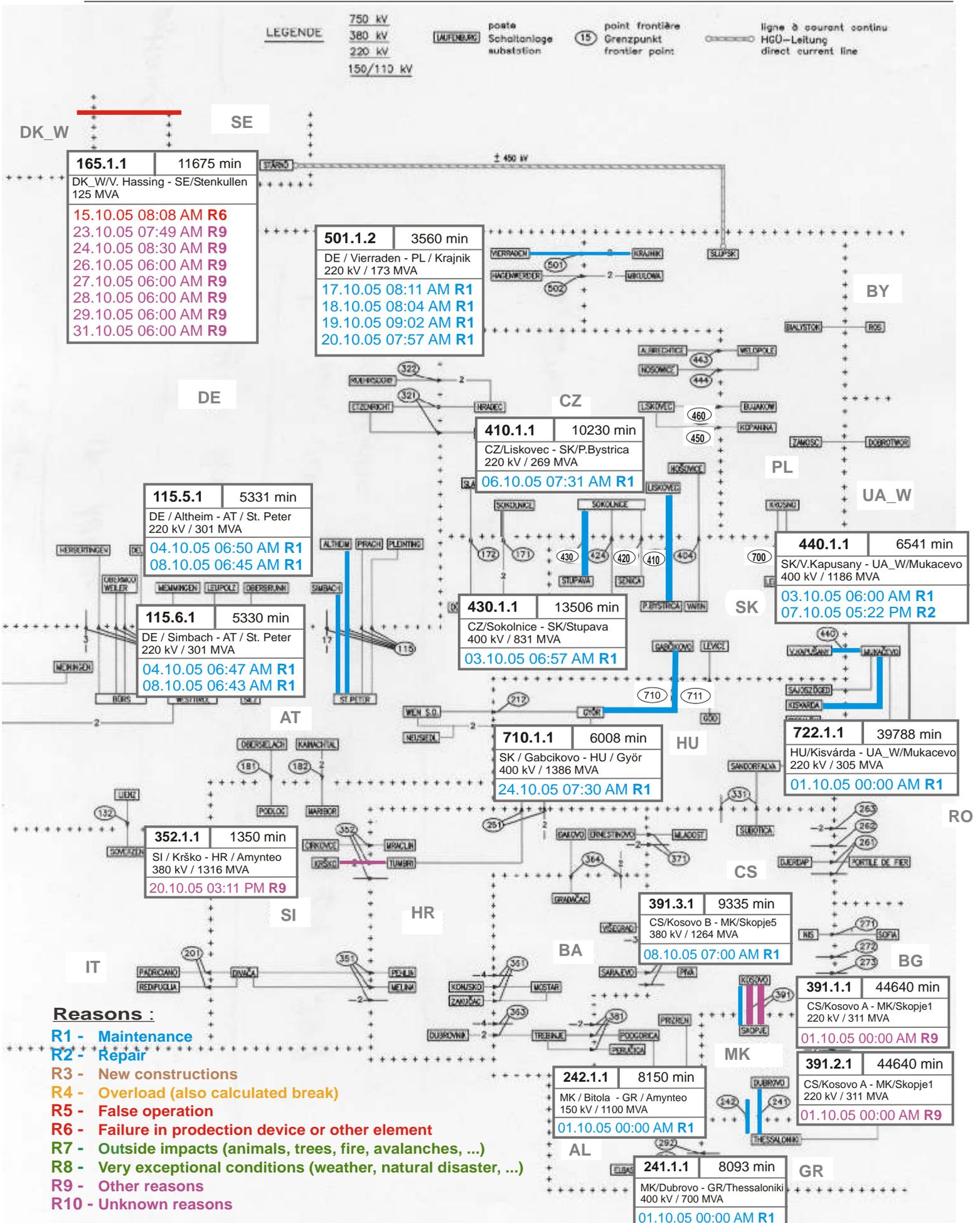
Synchronous operation with first region

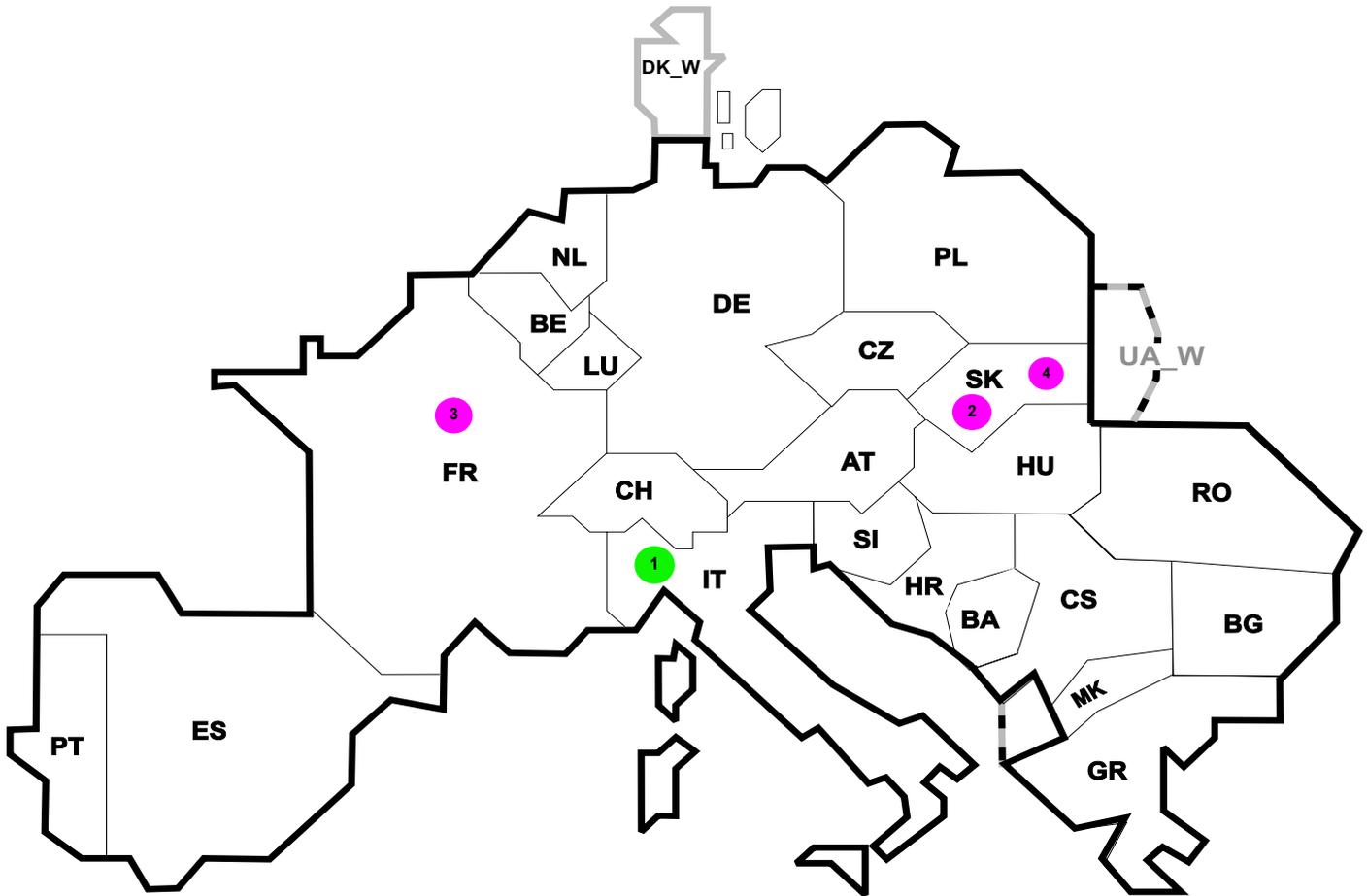
Sum of load flows in MW:

UCTE = 33755 MW Total = 38795 MW

* Central European Time (CET)
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

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption ¹
1	IT	Msterbianco	R8	43	221	21	0,07
2	SK	H. Zdana	R10	21	257	5	0,42
3	FR	Mouche	R9	9	31	17	0,01
4	SK	S.N.Ves	R10	3	148	1	0,06

¹ (year [in min] * energy not supply) / 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	916579	942214	2210	1291	725	1887
BA	132921	54490	255	130	331	125
BE	487203	1036152	675	1225	795	1600
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	2544171	3184889	2731	4782	3555	2780
CS	433680	465098	509	357	527	381
CZ	1858413	743518	2441	1089	2711	1063
DE	3909307	2632506	5952	2391	4105	4781
ES	1067616	394818	1827	588	1094	405
FR	7706777	1959887	10565	3252	10523	2814
GR	25523	381759	70	492	70	470
HR	134645	576085	135	669	25	582
HU	433653	1052933	767	1112	495	1711
IT	54497	4870457	35	6006	75	7000
MK	1600	84000	71	135	6	137
NL	380926	2093336	780	2250	210	2924
PL	1270647	108417	1823	218	2174	210
PT	2785	793099	0	1499	0	950
RO	443162	201291	307	301	506	233
SI	645038	527428	791	806	913	577
SK	577338	294578	773	316	847	747
DK_W	464294	597880	117	400	1179	960
UA_W ¹	339012	0	420	0	496	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.

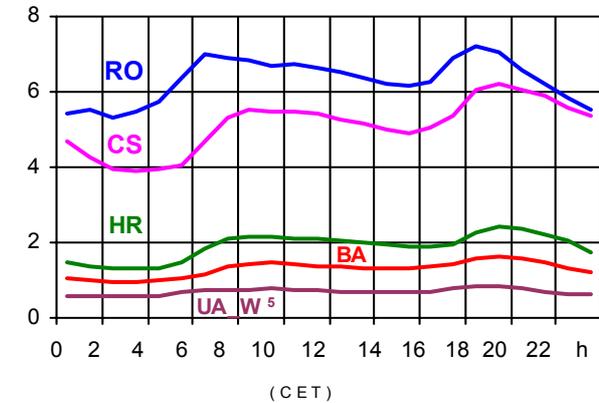
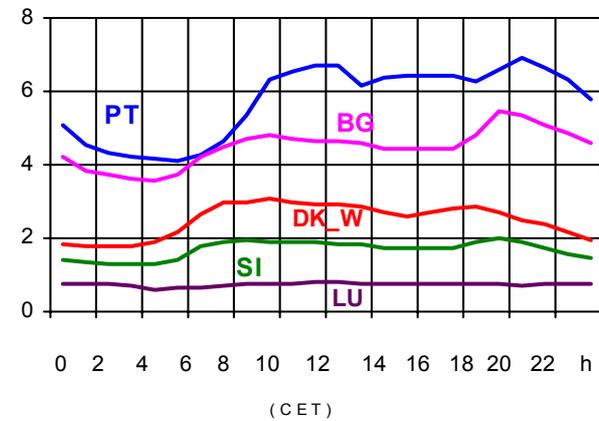
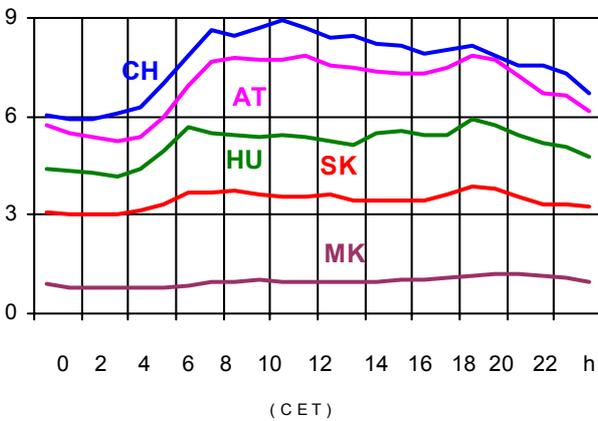
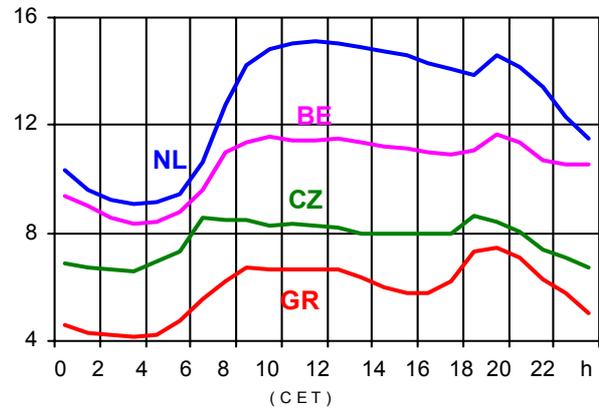
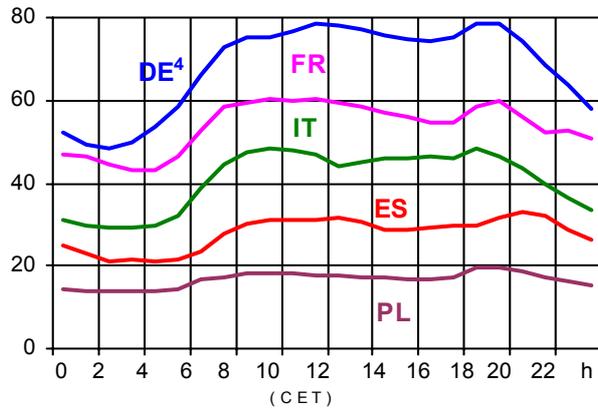
- Export Programs at 11:00: Sum of all positive values the third Wednesday from 10:00 to 11:00 a.m.
 - Import Programs at 11:00: Sum of all negative values the third Wednesday from 10:00 to 11:00 a.m.

¹ UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

All values are calculated to represent 100% of the national values

Consumption hourly load curves¹ on 19.10.2005

Values in GW



	Peak load MW	var.% ²	Load representativity ¹ %	Parallel power ³ MW
AT	7873	-17,2	100	9175
BA	1630	5,6	100	1617
BE	11631	-0,5	100	10327
BG	5467	18,5	100	5327
CH	8925	2,2	100	9649
CS	6222	10,6	100	5631
CZ	8661	1,0	100	10495
DE ⁴	78791	0,6	91	76800
ES	33198	-2,5	98	31387
FR	60204	-2,3	100	68150
GR	7429	10,9	100	6263
HR	2443	9,8	100	1819
HU	5912	4,3	100	4148
IT	48320	0,3	100	40421
LU	797	-17,0	99	828
MK	1220	28,6	100	861
NL	15151	2,0	100	12336
PL	19698	0,8	100	20442
PT	6898	-1,0	97	5467
RO	7192	3,3	100	6729
SI	1998	2,8	95	2079
SK	3837	1,6	100	3558
UCTE	336904	1,3		333509
DK_W	3064	-3,9	100	3471
UA_W ⁵	857	6,2	100	1211

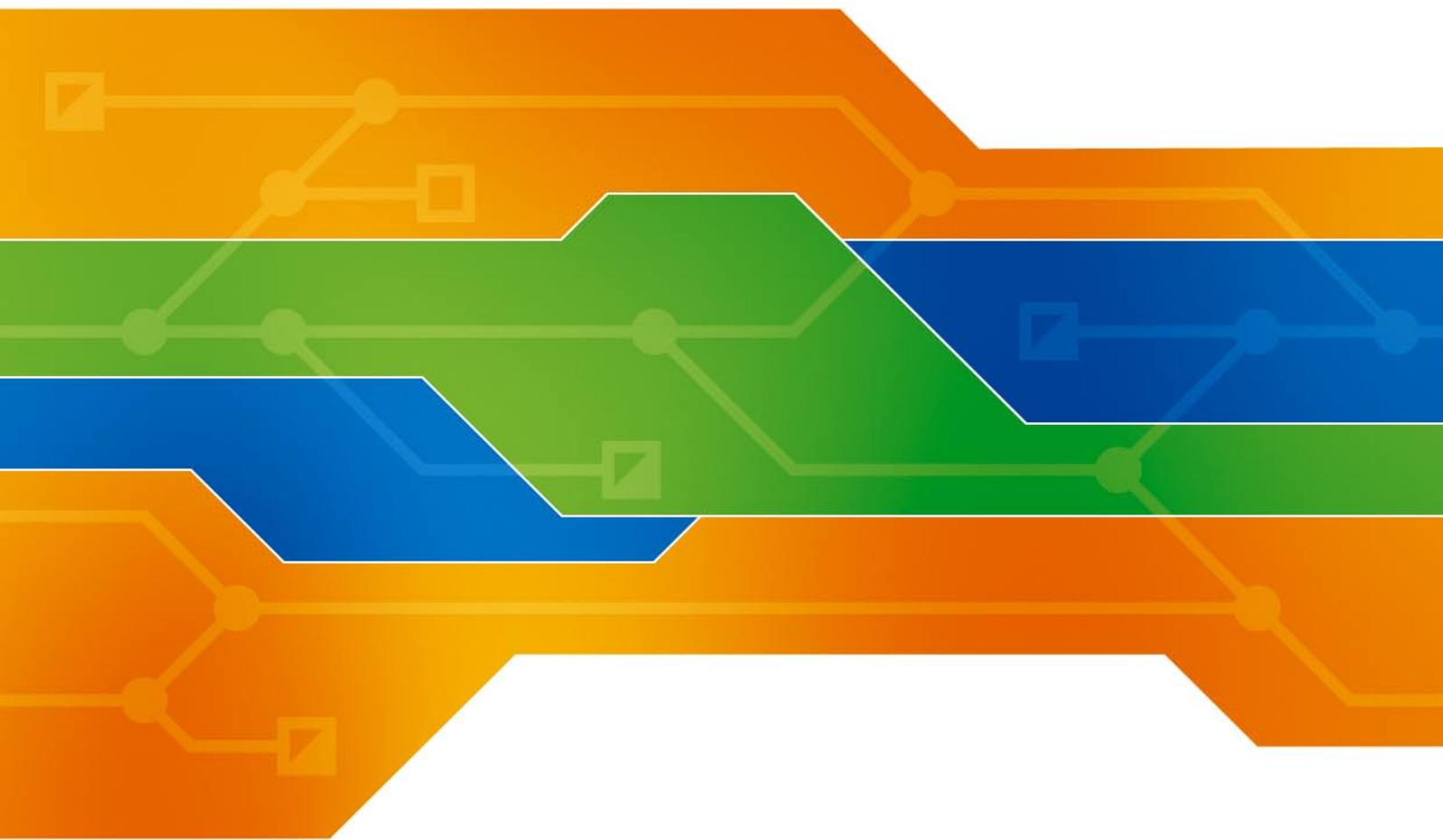
¹ Percentage as referred to total values in %

² Variation as compared to corresponding month of the previous year

³ Power produced in parallel operation (including autoproduction)

⁴ Values estimated on the basis of the vertical load. The vertical load is the total amount of the power flows out of the transmission network into distribution and large consumer networks.

⁵ UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE



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