



# March 2009

Monthly provisional values as of 18 November 2009

European Network of Transmission System Operators for Electricity

**Regional Group Continental Europe**



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#### **General remarks and abbreviations used in the tables**

- Country code UCTE represents the ENTSO-E Regional Group Continental Europe (former all countries of the Union for the Co-ordination of Transmission of Electricity)
- 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 ENTSO-E Regional Group Continental Europe (Jutland and Funen).
- UA\_W Ukraine West represents the so-called Burshtyn Island synchronously interconnected with ENTSO-E Regional Group Continental Europe
- CET Central European Time
- The Bulgarian load values on the 3rd Wednesday are gross values

| Countries       | Net production in GWh |              |            |              |               |                  |                     | Exchange balance<br>in GWh | Pump<br>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                     | 1844         | 3090       | 0            | 0             | 798              | 5732                | 402                        | 269            | 5865               | -3,3     | 67839          | -0,3     |
| BA              | 0                     | 668          | 718        | 0            | 0             | 0                | 1386                | -423                       | 0              | 963                | -4,8     | 11470          | 0,5      |
| BE <sup>2</sup> | 3935                  | 2758         | 163        | 347          | 73            | 0                | 7203 <sup>1</sup>   | 109                        | 153            | 7159               | -11,0    | 87365          | -3,8     |
| BG              | 1432                  | 1774         | 323        | 0            | 0             | 0                | 3529                | -337                       | 0              | 3192               | 8,1      | 34164          | 0,3      |
| CH              | 2414                  | 171          | 2389       | 102          | 2             | 0                | 5076 <sup>1</sup>   | 818                        | 184            | 5710               | -0,4     | 64648          | 1,6      |
| CZ              | 2395                  | 4472         | 351        | 39           | 36            | 0                | 7257 <sup>1</sup>   | -1499                      | 45             | 5713               | -5,0     | 64480          | -1,4     |
| DE              | 11096                 | 29427        | 1789       | 6248         | 3762          | 0                | 48560 <sup>1</sup>  | -808                       | 477            | 47275              | -3,4     | 550597         | -1,0     |
| DK_W            | 0                     | 1678         | 2          | 598          | 447           | 0                | 2278 <sup>1</sup>   | -444                       | 0              | 1834               | -3,3     | 21490          | -1,4     |
| ES              | 3893                  | 11191        | 2983       | 3676         | 2763          | 34               | 21777               | -196                       | 291            | 21290              | -6,8     | 267124         | -1,0     |
| FR              | 35929                 | 6202         | 6129       | 1088         | 742           | 0                | 49348               | -4396                      | 605            | 44347              | -4,6     | 498347         | 2,3      |
| GR              | 0                     | 3218         | 562        | 195          | 160           | 0                | 3975 <sup>1</sup>   | 475                        | 51             | 4399               | 3,0      | 55906          | -0,3     |
| HR              | 0                     | 363          | 741        | 5            | 5             | 3                | 1112 <sup>1</sup>   | 453                        | 11             | 1554               | -1,0     | 17772          | 0,2      |
| HU              | 1399                  | 1615         | 0          | 0            | 0             | 0                | 3014 <sup>1</sup>   | 584                        | 0              | 3598               | 0,9      | 41298          | -1,0     |
| IT              | 0                     | 17423        | 3786       | 1193         | 763           | 0                | 22402               | 4668                       | 477            | 26593              | -6,7     | 332485         | -2,6     |
| LU              | 0                     | 242          | 82         | 16           | 8             | 0                | 340                 | 257                        | 93             | 504                | -18,7    | 6413           | -6,3     |
| ME <sup>3</sup> | 0                     | 119          | 171        | 0            | 0             | 0                | 290                 | 118                        | 0              | 408                | n.a.     | 4449           | n.a.     |
| MK              | 0                     | 533          | 94         | 0            | 0             | 0                | 627                 | 136                        | 0              | 763                | 0,3      | 8516           | -2,3     |
| NL              | 364                   | 8290         | 0          | 751          | 439           | 0                | 9405 <sup>1</sup>   | 649                        | 0              | 10054              | -6,2     | 119160         | 1,0      |
| PL <sup>4</sup> | 0                     | 12302        | 320        | 100          | 83            | 0                | 12722 <sup>1</sup>  | -477                       | 46             | 12199              | -2,8     | 141349         | -1,3     |
| PT              | 0                     | 2372         | 845        | 751          | 598           | 0                | 3968 <sup>1</sup>   | 263                        | 42             | 4189               | -5,2     | 52018          | 1,0      |
| RO              | 974                   | 2343         | 1518       | 0            | n.a.          | 0                | 4835                | -361                       | 0              | 4474               | -6,7     | 53919          | -2,1     |
| RS              | 0                     | 2778         | 1137       | 0            | 0             | 0                | 3915                | -58                        | 62             | 3795               | 6,2      | 39633          | 1,5      |
| SI              | 516                   | 429          | 290        | 0            | 0             | 0                | 1235                | -259                       | 0              | 976                | -12,3    | 12330          | -7,8     |
| SK              | 1219                  | 492          | 549        | 31           | 1             | 0                | 2291 <sup>1</sup>   | 50                         | 24             | 2317               | -6,5     | 27148          | -2,4     |
| UCTE            | 65566                 | 112704       | 28032      | 15140        | 9882          | 835              | 222277 <sup>1</sup> | -276                       | 2830           | 219171             | -4,4     | 2579920        | -0,5     |
| UA_W            | 0                     | 646          | 9          | 0            | 0             | 0                | 655                 | -268                       | 0              | 387                | -0,5     | 4081           | -6,1     |

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

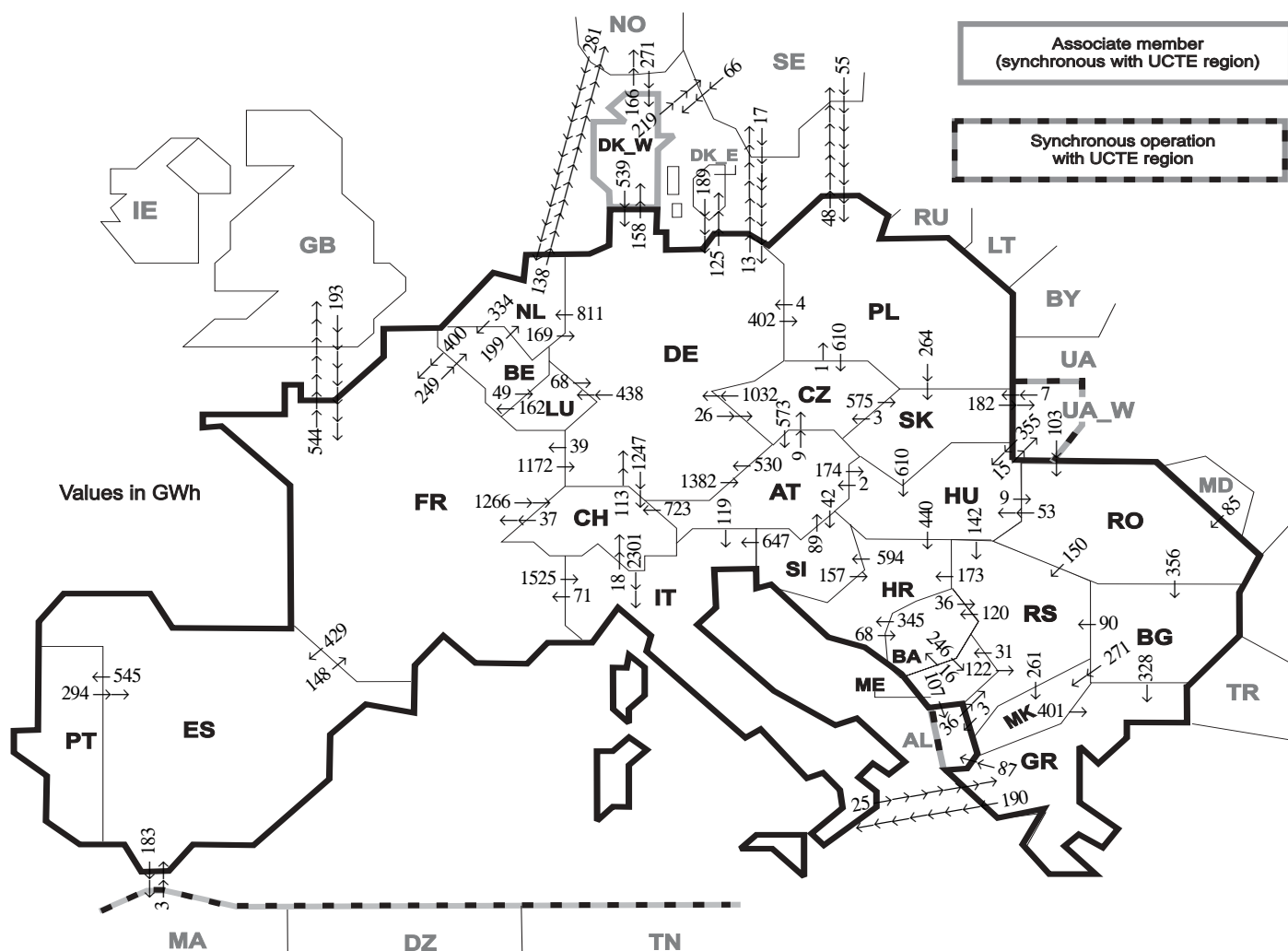
<sup>2</sup> The reported figures are best estimates based on actual measurements and extrapolations

<sup>3</sup> Monthly national values as of March 2008

<sup>4</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  |
| Fossil fuels     | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100  | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 95  | 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 | 97  | 100 | 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                     | -           | -          | -          | -          | 723         | 9          | 530         | -          | -          | -          | -          | -           | 174         | 119         | -          | -          | -          | -           | -          | -          | -          | -          | 42         | -          | -          | -                      | 1597         |
| BA                     | -           | -          | -          | -          | -           | -          | -           | -          | -          | -          | -          | 345         | -           | -           | -          | 246        | -          | -           | -          | -          | -          | 36         | -          | -          | -          | -                      | 627          |
| BE                     | -           | -          | -          | -          | -           | -          | -           | -          | 400        | -          | -          | -           | -           | 49          | -          | -          | 199        | -           | -          | -          | -          | -          | -          | -          | -          | -                      | 648          |
| BG                     | -           | -          | -          | -          | -           | -          | -           | -          | -          | 328        | -          | -           | -           | -           | -          | -          | 271        | -           | -          | -          | 0          | 90         | -          | -          | -          | 0                      | 689          |
| CH                     | 0           | -          | -          | -          | -           | 113        | -           | -          | -          | 37         | -          | -           | 2301        | -           | -          | -          | -          | -           | -          | -          | -          | -          | -          | -          | -          | -                      | 2451         |
| CZ                     | 573         | -          | -          | -          | -           | -          | 1032        | -          | -          | -          | -          | -           | -           | -           | -          | -          | -          | 1           | -          | -          | -          | -          | 575        | -          | -          | 2181                   |              |
| DE                     | 1382        | -          | -          | -          | 1247        | 26         | -           | 158        | 39         | -          | -          | -           | -           | 438         | -          | -          | 811        | 402         | -          | -          | -          | -          | -          | -          | -          | 138                    | 4641         |
| DK_W                   | -           | -          | -          | -          | -           | -          | 539         | -          | -          | -          | -          | -           | -           | -           | -          | -          | -          | -           | -          | -          | -          | -          | -          | -          | -          | 385                    | 924          |
| ES                     | -           | -          | -          | -          | -           | -          | -           | -          | -          | 148        | -          | -           | -           | -           | -          | -          | -          | -           | -          | 545        | -          | -          | -          | -          | -          | -                      | 876          |
| FR                     | -           | -          | 249        | -          | 1266        | -          | 1172        | -          | 429        | -          | -          | -           | -           | 1525        | -          | -          | -          | -           | -          | -          | -          | -          | -          | -          | -          | 544                    | 5185         |
| GR                     | -           | -          | -          | 0          | -           | -          | -           | -          | -          | -          | -          | -           | -           | 190         | -          | -          | 0          | -           | -          | -          | -          | -          | -          | -          | -          | 87                     | 277          |
| HR                     | -           | 68         | -          | -          | -           | -          | -           | -          | -          | -          | -          | -           | 0           | -           | -          | -          | -          | -           | -          | -          | -          | 0          | 594        | -          | -          | 662                    |              |
| HU                     | 2           | -          | -          | -          | -           | -          | -           | -          | -          | -          | -          | 440         | -           | -           | -          | -          | -          | -           | -          | -          | 9          | 142        | 0          | 15         | -          | 608                    |              |
| IT                     | 0           | -          | -          | -          | 18          | -          | -           | -          | -          | 71         | 25         | -           | -           | -           | -          | -          | -          | -           | -          | -          | -          | -          | 0          | -          | -          | 114                    |              |
| LU                     | -           | -          | 162        | -          | -           | -          | 68          | -          | -          | -          | -          | -           | -           | -           | -          | -          | -          | -           | -          | -          | -          | -          | -          | -          | -          | 230                    |              |
| ME                     | -           | 16         | -          | -          | -           | -          | -           | -          | -          | -          | -          | -           | -           | -           | -          | -          | -          | -           | -          | -          | -          | 122        | -          | -          | -          | 107                    | 245          |
| MK                     | -           | -          | -          | 0          | -           | -          | -           | -          | -          | -          | -          | 401         | -           | -           | -          | -          | -          | -           | -          | -          | -          | -          | 0          | -          | -          | -                      | 401          |
| NL                     | -           | -          | 334        | -          | -           | -          | 169         | -          | -          | -          | -          | -           | -           | -           | -          | -          | -          | -           | -          | -          | -          | -          | -          | -          | -          | 138                    | 641          |
| PL                     | -           | -          | -          | -          | 610         | 4          | -           | -          | -          | -          | -          | -           | -           | -           | -          | -          | -          | -           | -          | -          | -          | -          | 264        | -          | 48         | 926                    |              |
| PT                     | -           | -          | -          | -          | -           | -          | -           | -          | 294        | -          | -          | -           | -           | -           | -          | -          | -          | -           | -          | -          | -          | -          | -          | -          | -          | -                      | 294          |
| RO                     | -           | -          | -          | 356        | -           | -          | -           | -          | -          | -          | -          | -           | 53          | -           | -          | -          | -          | -           | -          | -          | -          | 150        | -          | 0          | 0          | 559                    |              |
| RS                     | -           | 120        | -          | 0          | -           | -          | -           | -          | -          | -          | -          | 173         | 0           | -           | 31         | 261        | -          | -           | -          | -          | 0          | -          | -          | -          | -          | 3                      | 588          |
| SI                     | 89          | -          | -          | -          | -           | -          | -           | -          | -          | -          | -          | 157         | 647         | -           | -          | -          | -          | -           | -          | -          | -          | -          | -          | -          | -          | 893                    |              |
| SK                     | -           | -          | -          | -          | 3           | -          | -           | -          | -          | -          | -          | -           | 610         | -           | -          | -          | -          | 0           | -          | -          | -          | -          | -          | -          | 182        | 795                    |              |
| UA_W                   | -           | -          | -          | -          | -           | -          | -           | -          | -          | -          | -          | -           | 355         | -           | -          | -          | -          | -           | -          | -          | 103        | -          | 7          | -          | -          | 465                    |              |
| Other III <sup>1</sup> | -           | -          | -          | 0          | -           | -          | 206         | 337        | 3          | 193        | 0          | -           | -           | -           | -          | 0          | -          | 281         | 55         | -          | 85         | 36         | -          | -          | -          | 1196                   |              |
| <b>Sum imp</b>         | <b>2046</b> | <b>204</b> | <b>745</b> | <b>356</b> | <b>3254</b> | <b>648</b> | <b>3833</b> | <b>495</b> | <b>726</b> | <b>888</b> | <b>754</b> | <b>1115</b> | <b>1192</b> | <b>4782</b> | <b>487</b> | <b>277</b> | <b>532</b> | <b>1291</b> | <b>458</b> | <b>545</b> | <b>197</b> | <b>576</b> | <b>636</b> | <b>846</b> | <b>197</b> | <b>1633</b>            | <b>28713</b> |

Sum of physical energy flows between UCTE countries = 25222GWh Total physical energy flows = 28713GWh

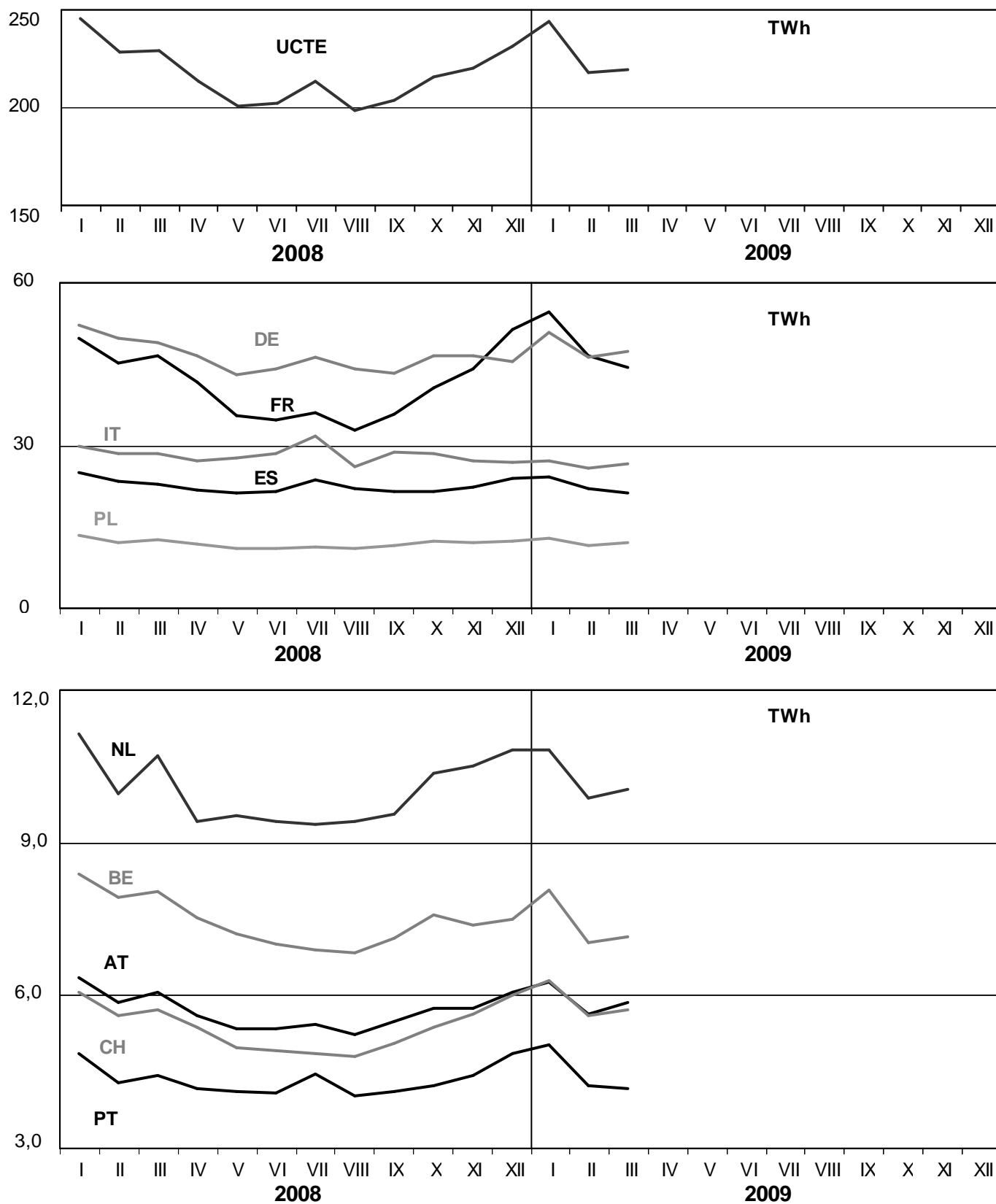
<sup>1</sup> Other III: Albania, Belarus, Denmark East, Great Britain, Morocco, Republic of Moldavia, Norway, Sweden, Republic of Turkey and Ukraine

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

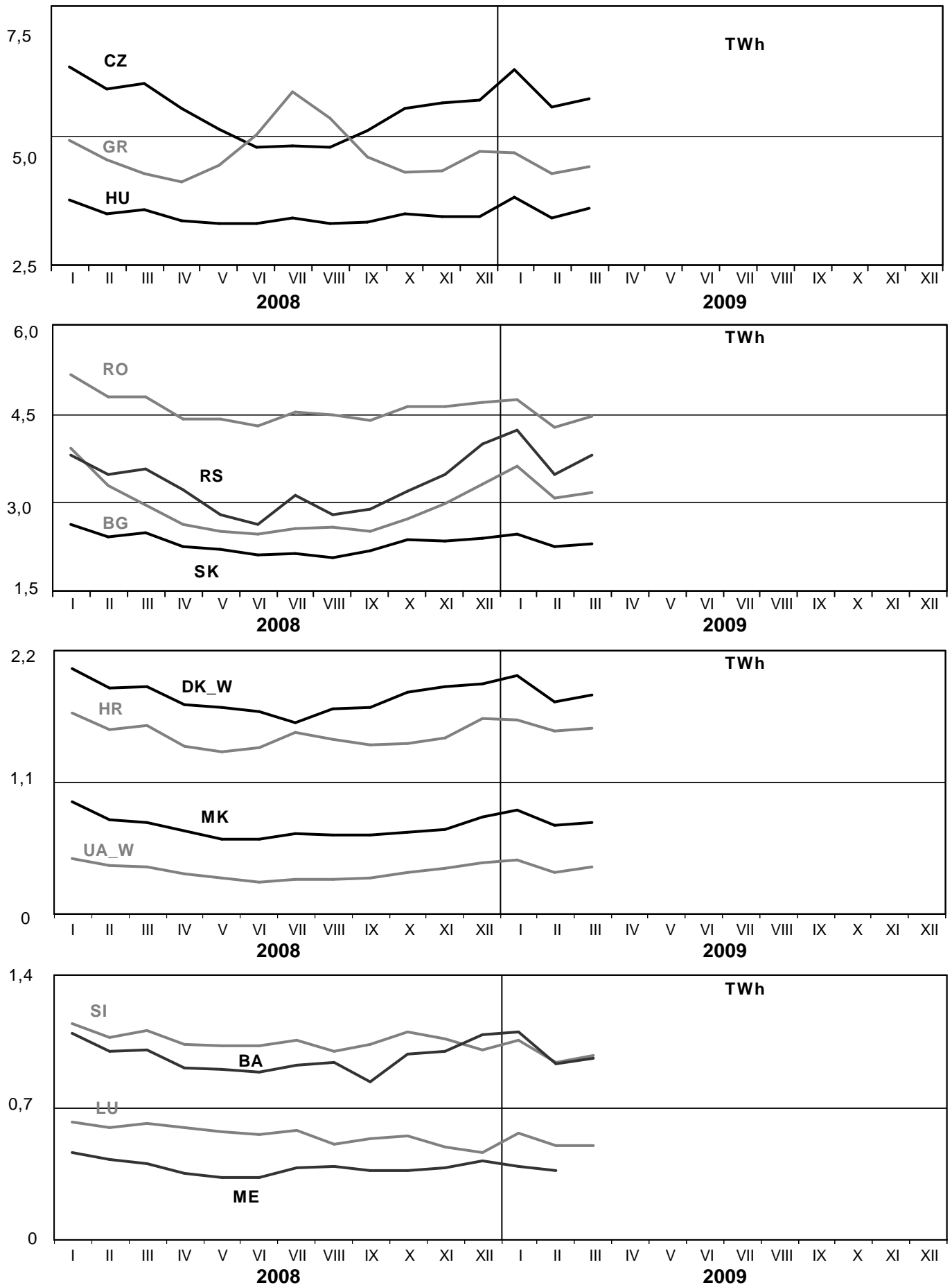
March 2009



# 3

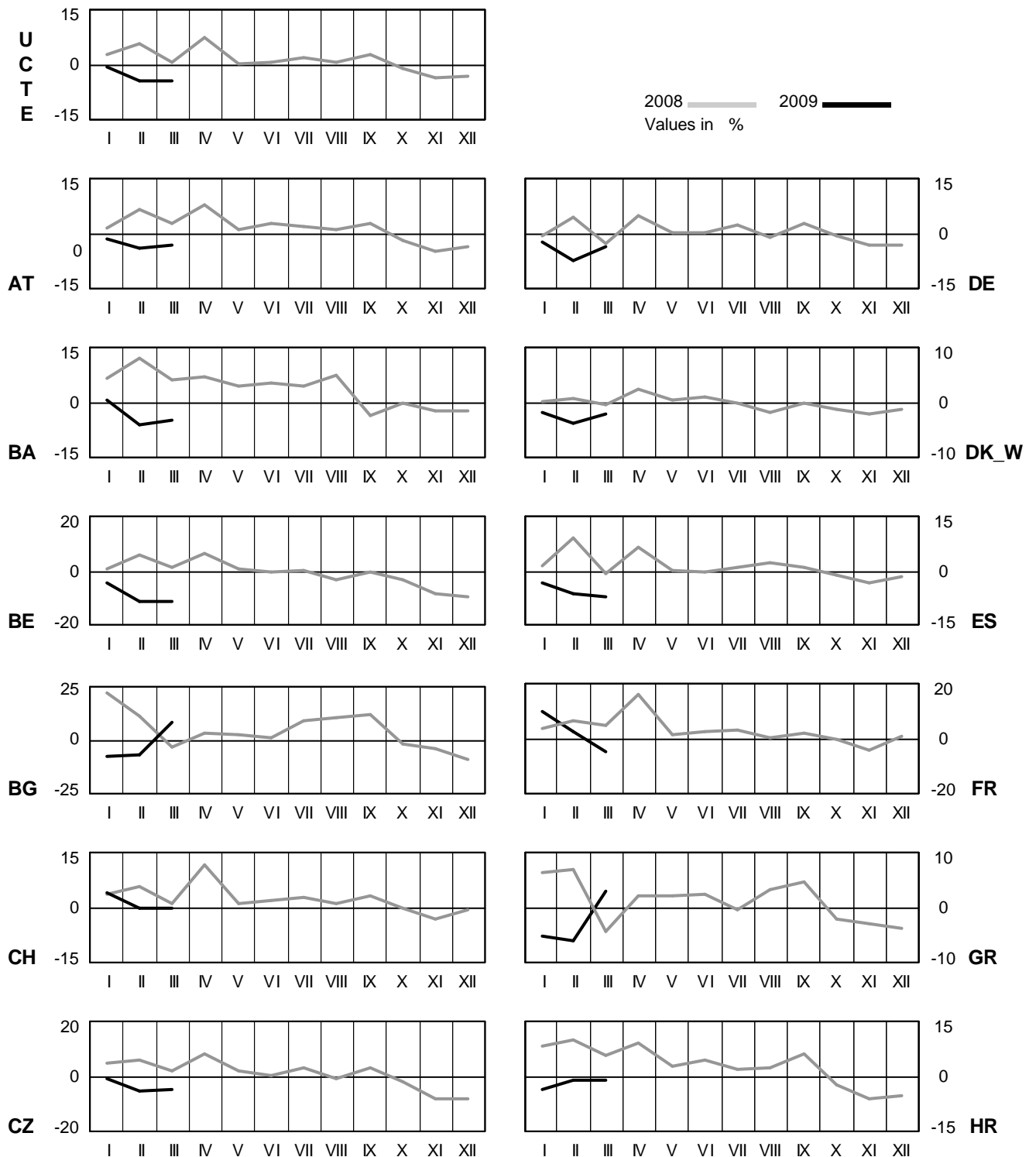
## Monthly consumption

March 2009



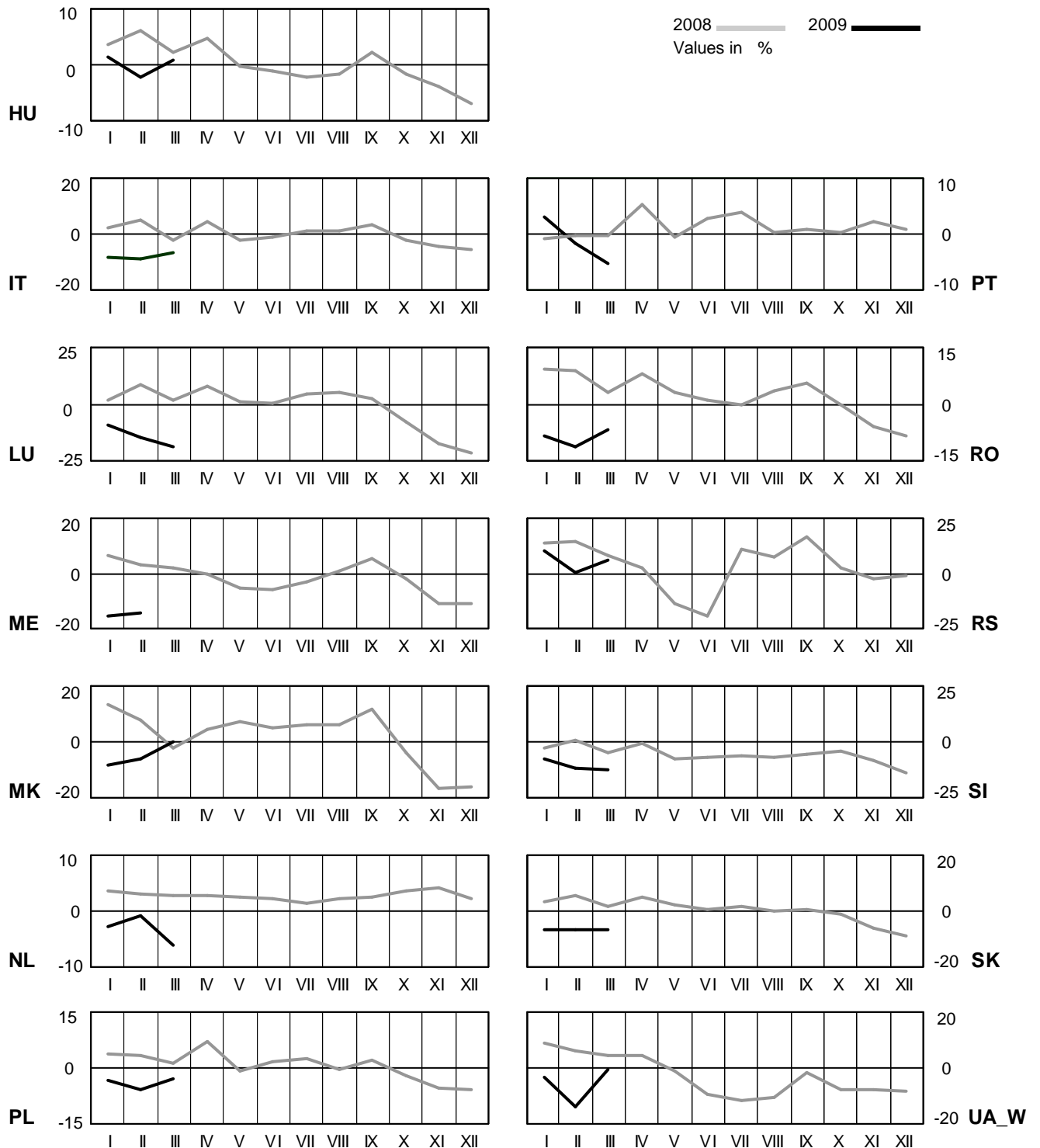
# 4 Monthly consumption variation

March 2009



# 4 Monthly consumption variation

March 2009

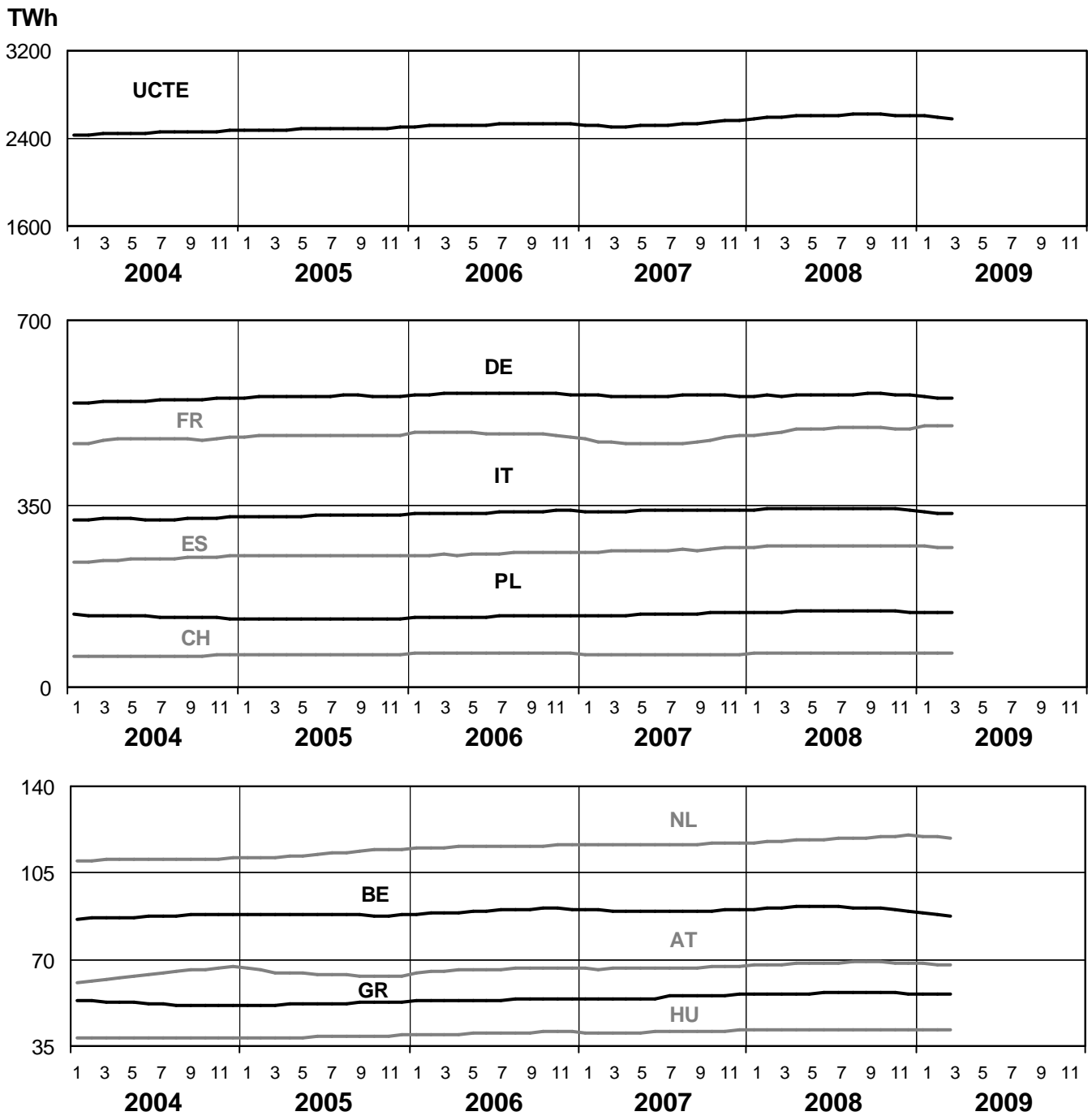




# 5

## Consumption of the last 12 months

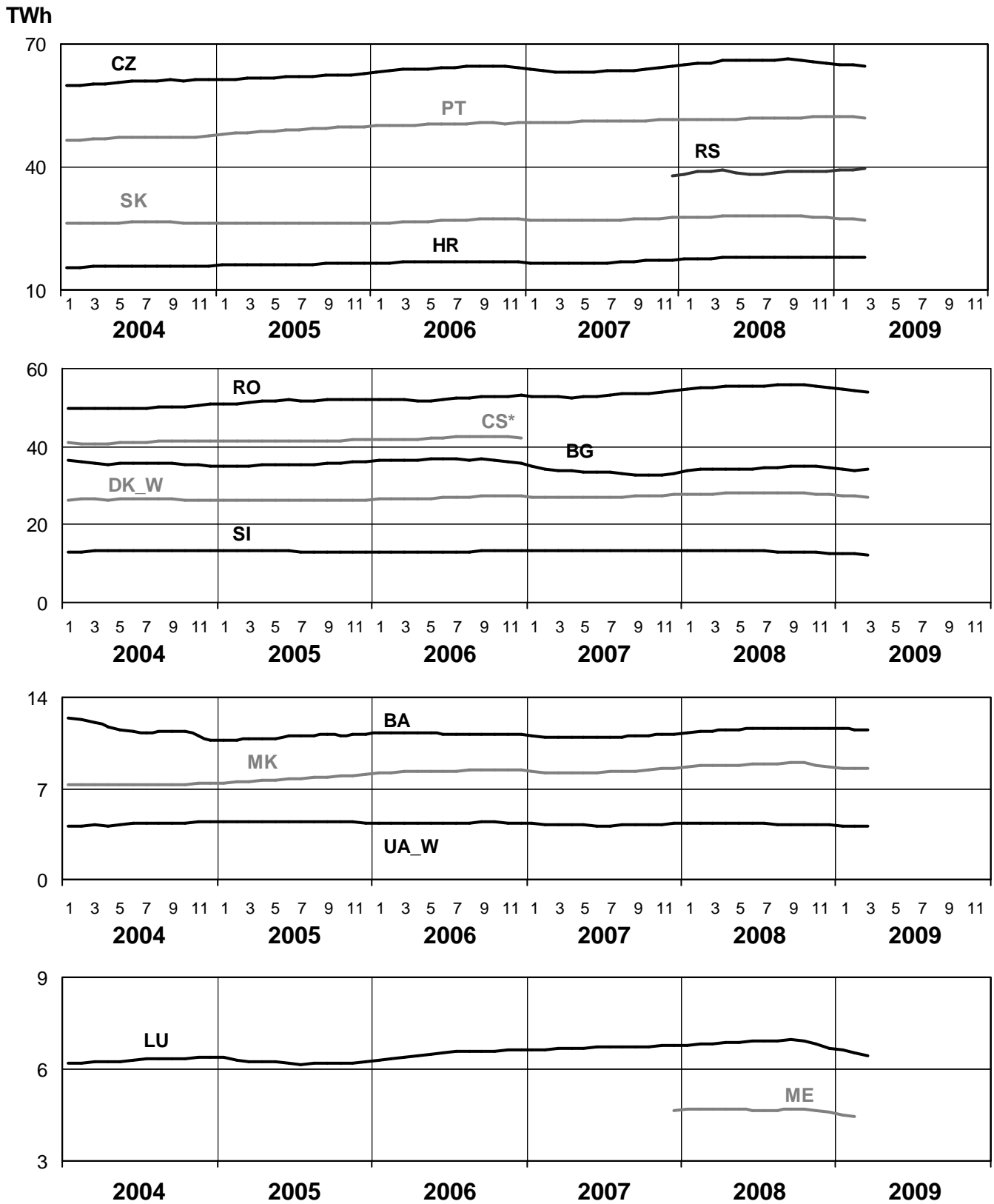
March 2009



# 5

## Consumption of the last 12 months

March 2009

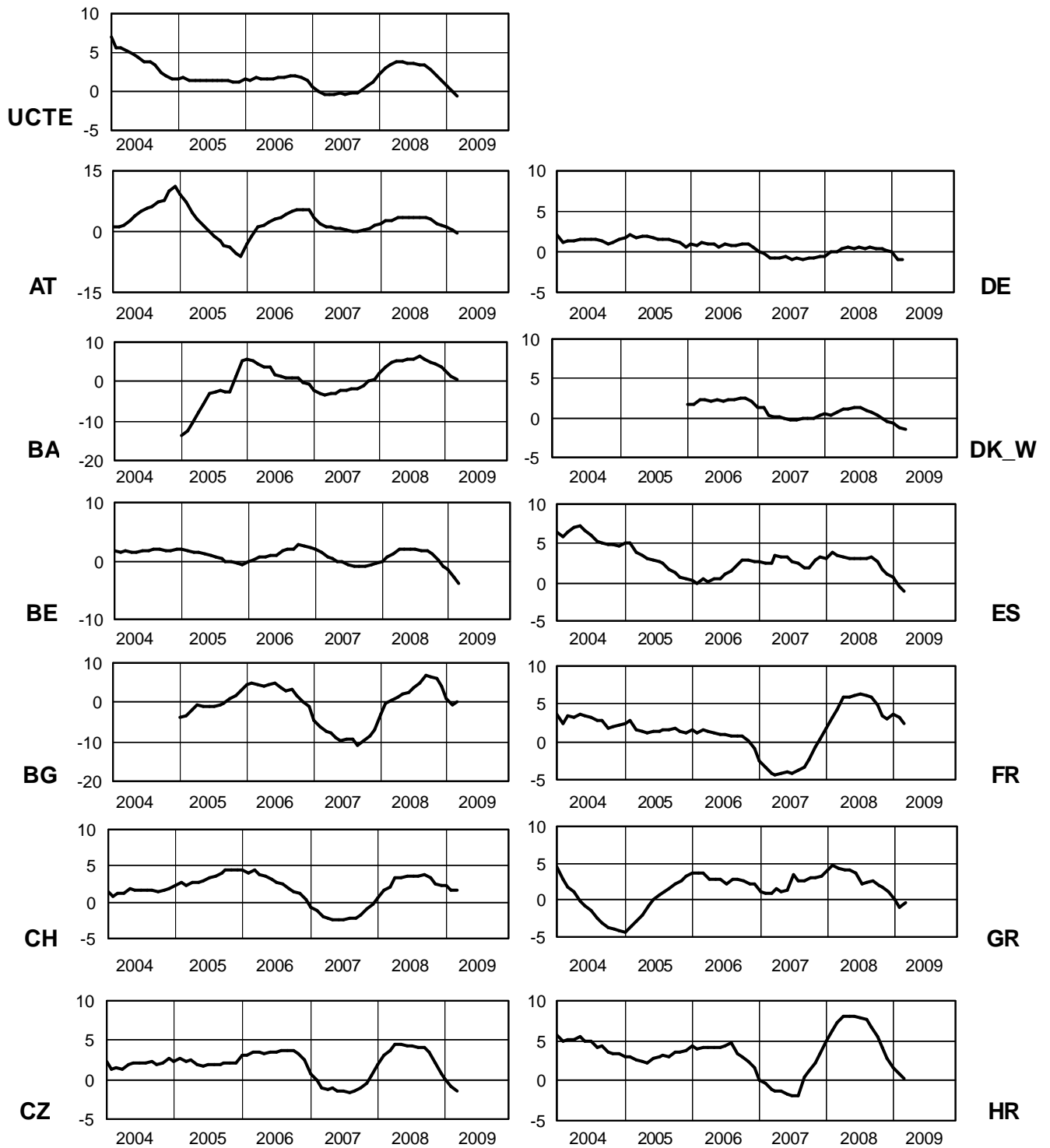


\* CS consumption values until December 2006; from 2007 on ME and RS as separate countries

# 6

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

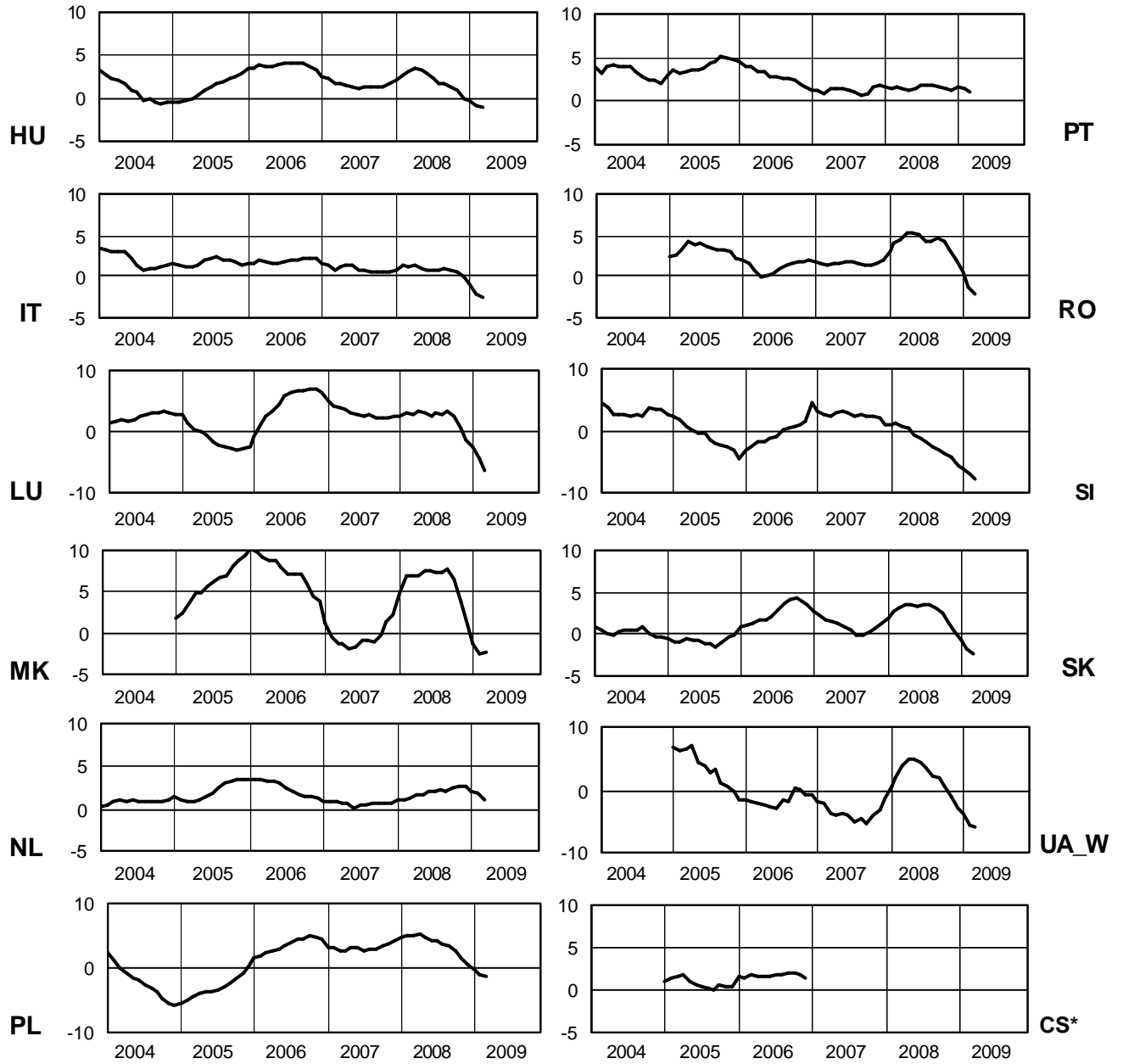
March 2009



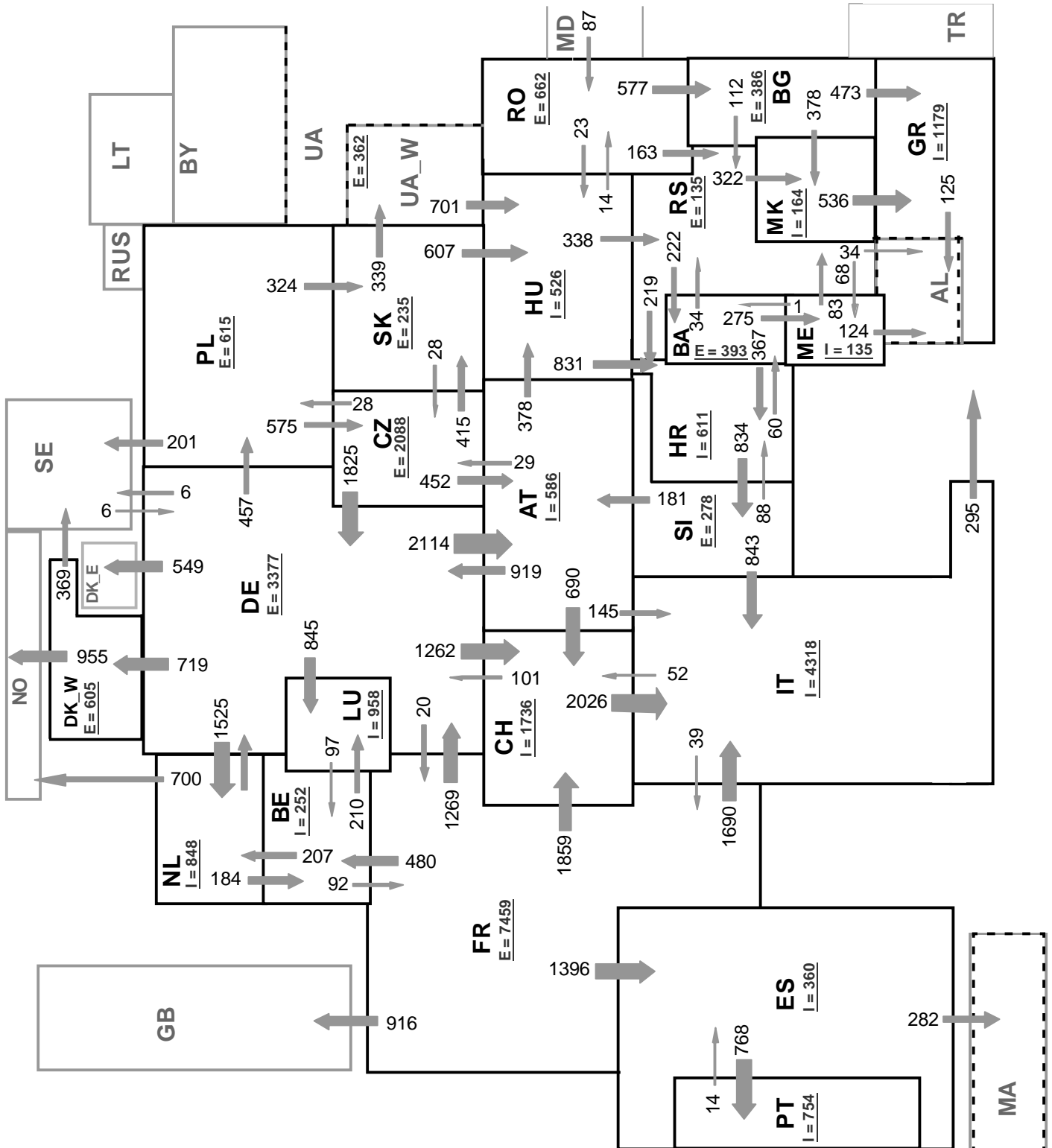
# 6

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

March 2009



\* CS consumption values of the last 12 months until December 2006; variation ME and RS will be published from the second quarter 2009 on



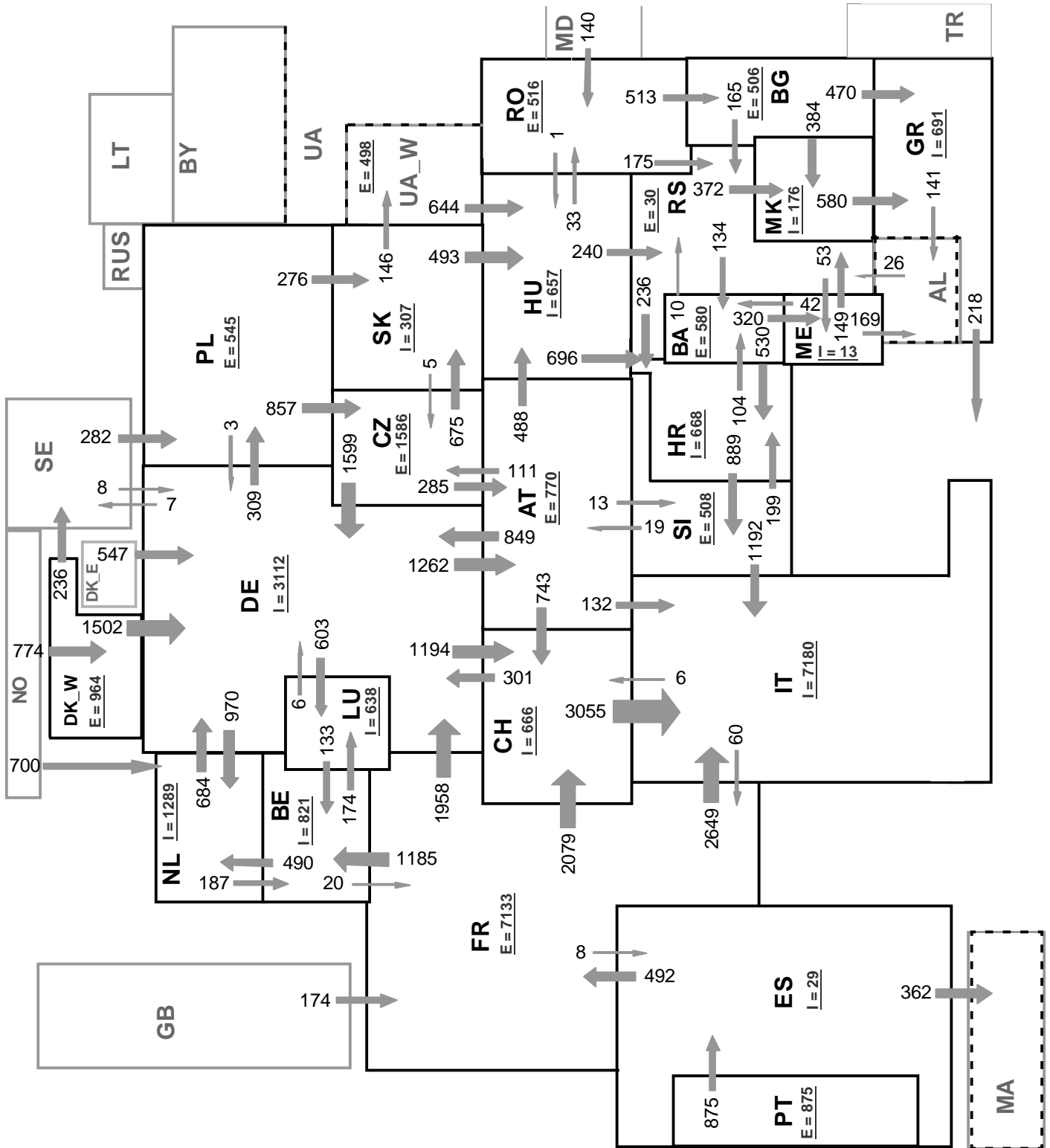
Sum of load flows in MW

UCTE = 31178 MW

Total = 36572 MW

Synchronous operation with UCTE region

I = Import balance  
E = Export balance



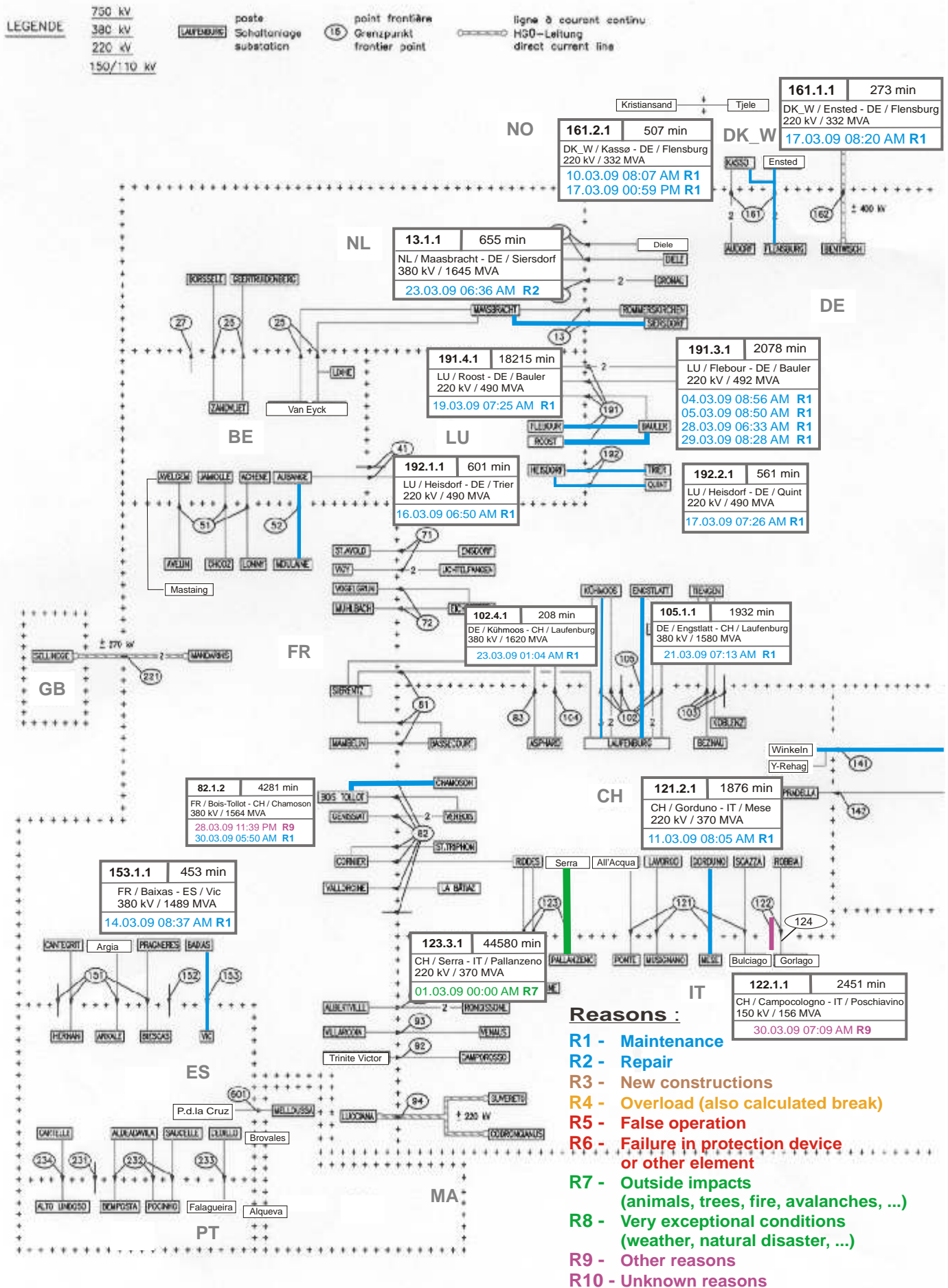
Sum of load flows in MW

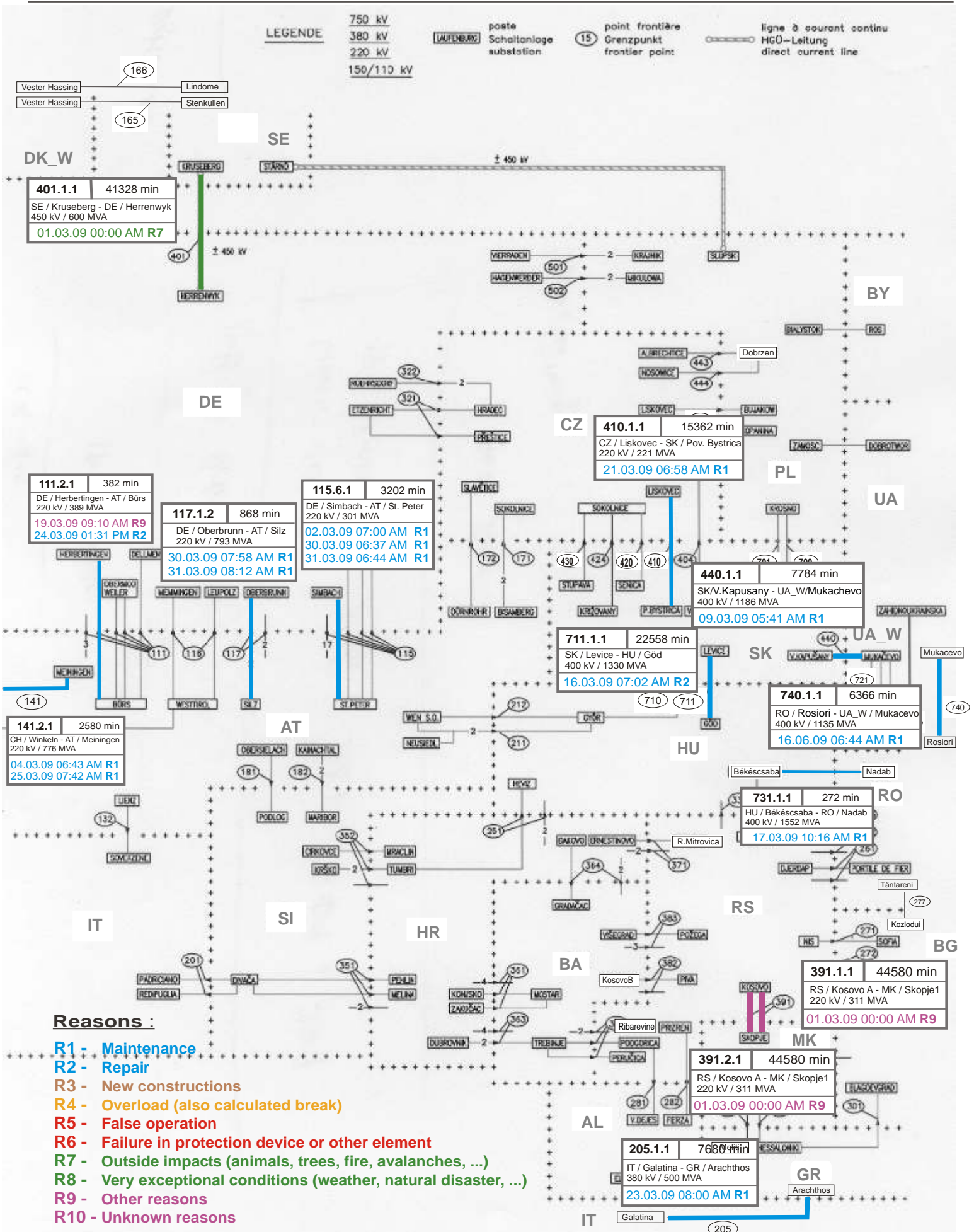
UCTE = 34455 MW

Total = 38811 MW

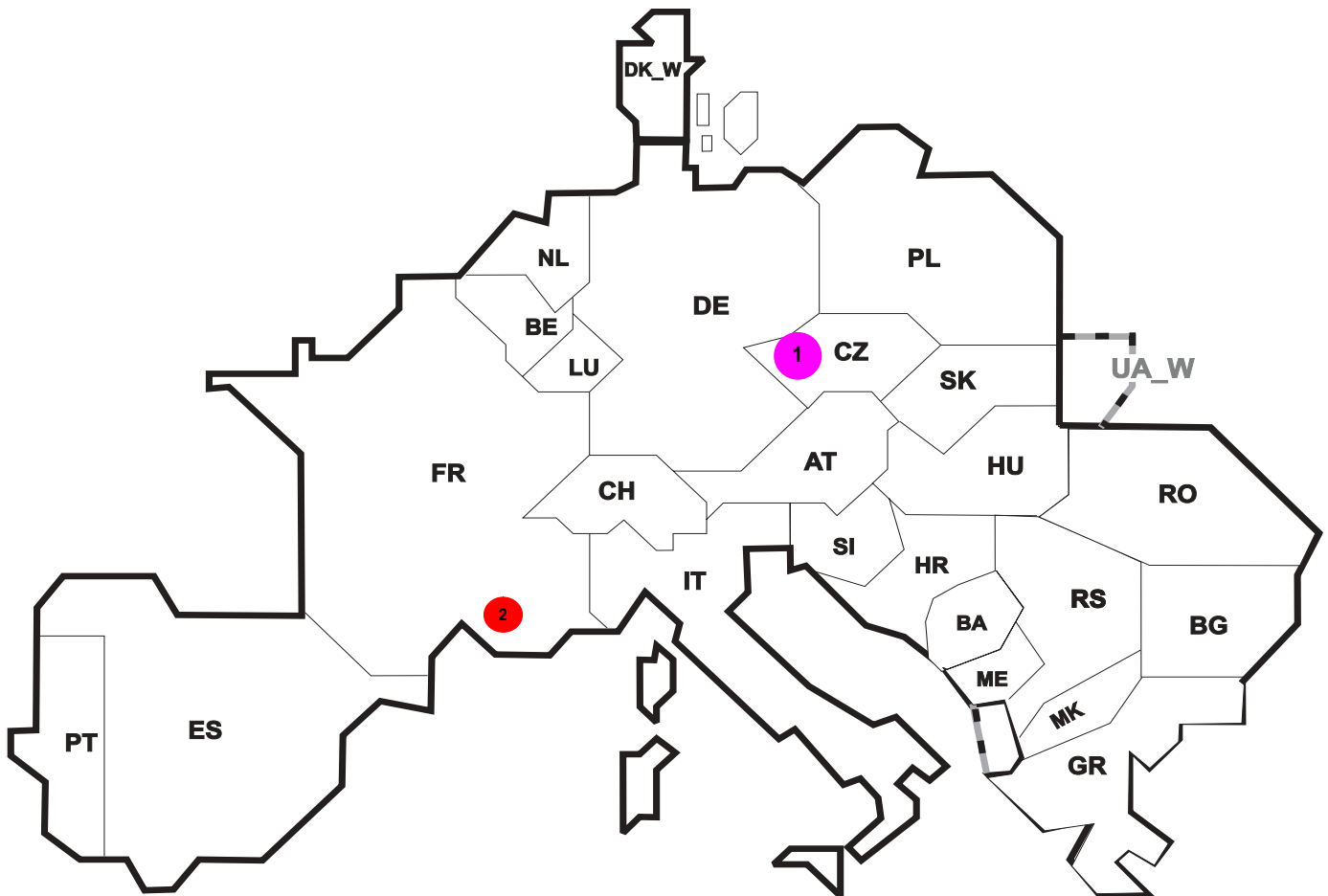
Synchronous operation with UCTE region

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 <sup>2</sup> [ MWh ] | Total loss of power [ MW ] | Restoration time [ min ] | Equivalent time of interruption <sup>1</sup> |
|----|---------|----------------|--------|--|----------------------------|--------------------------|--|
| 1  | CZ      | Horni Zivotice | R9     | 7  | 82                         | 5                        | 0,057  |
| 2  | FR      | Coudon         | R6     | 4  | 25                         | 7                        | 0,004  |

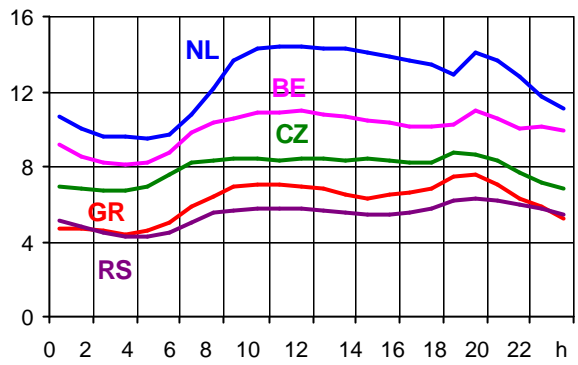
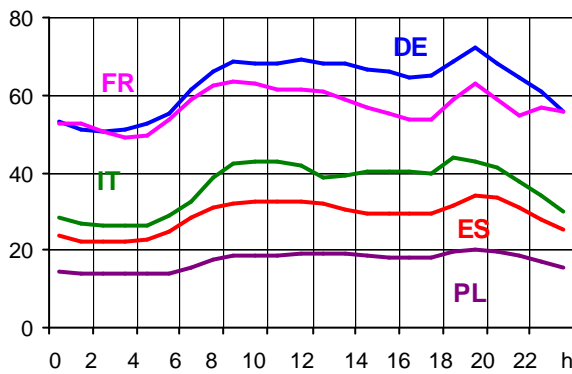
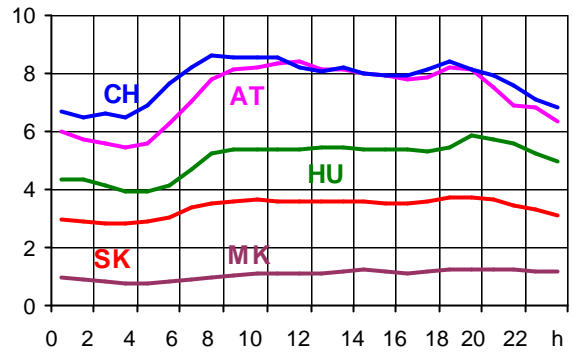
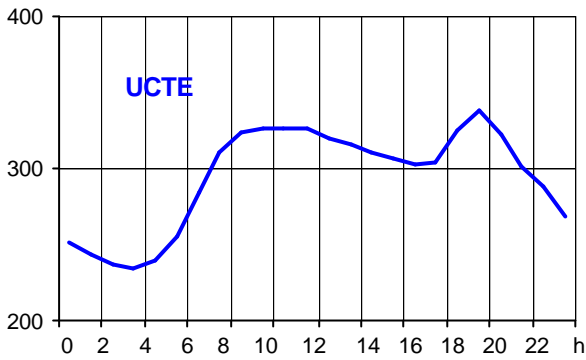
<sup>1</sup> ( year [in min] \* energy not supplied ) / consumption last 12 months

| 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           | 611531          | 1021560         | 1642                     | 632                      | 1215                     | 662                      |
| BA           | 605841          | 177149          | 221                      | 100                      | 284                      | 100                      |
| BE           | 520098          | 516938          | 343                      | 733                      | 387                      | 1253                     |
| BG           | n.a.            | n.a.            | n.a.                     | n.a.                     | n.a.                     | n.a.                     |
| CH           | 2196425         | 3014208         | 1643                     | 3396                     | 3690                     | 4384                     |
| CZ           | 2124678         | 577665          | 2826                     | 690                      | 2738                     | 1165                     |
| DE           | 2394890         | 1926884         | 2753                     | 2436                     | 1456                     | 4194                     |
| DK_W         | 385440          | 593683          | 0                        | 950                      | 3026                     | 636                      |
| ES           | 813076          | 644602          | 1036                     | 1400                     | 1161                     | 1139                     |
| FR           | 6632611         | 2256591         | 9552                     | 2090                     | 9105                     | 1849                     |
| GR           | 224071          | 697463          | 75                       | 1257                     | 203                      | 872                      |
| HR           | 38975           | 492085          | 648                      | 45                       | 673                      | 15                       |
| HU           | 645351          | 1228691         | 922                      | 1422                     | 899                      | 1548                     |
| IT           | 114355          | 4782277         | 386                      | 4704                     | 66                       | 7246                     |
| ME           | n.a.            | n.a.            | n.a.                     | n.a.                     | n.a.                     | n.a.                     |
| MK           | 2400            | 136400          | 198                      | 310                      | 178                      | 357                      |
| NL           | 1087462         | 1744303         | 1484                     | 2304                     | 1651                     | 2938                     |
| PL           | 505127          | 117057          | 646                      | 174                      | 725                      | 293                      |
| PT           | 116468          | 378675          | 0                        | 754                      | 839                      | 0                        |
| RO           | 464059          | 103531          | 764                      | 107                      | 690                      | 176                      |
| RS           | 478293          | 396721          | 667                      | 515                      | 639                      | 420                      |
| SI           | 800495          | 549916          | 914                      | 648                      | 1214                     | 697                      |
| SK           | 523333          | 501774          | 582                      | 275                      | 415                      | 617                      |
| UA_W         | 259870          | 0               | 367                      | 0                        | 499                      | 0                        |

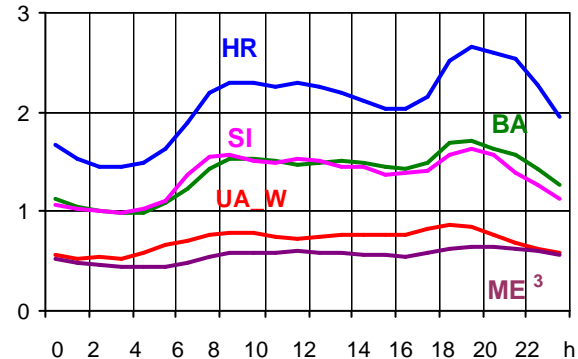
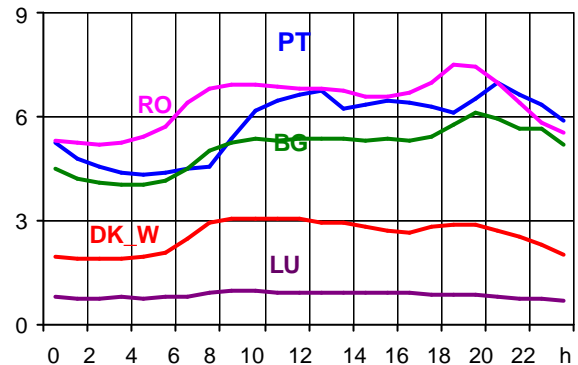
- Control areas can differ from national borders ( i.e. German block which includes parts of AT, LU and DK ).
- Values are calculated on an hourly base ( MWh ).
- This values are not the provisional values entered in the VULCANUS system, but the definitive values after an eventual correction during the 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 18.03.2009 CET

Values in GW



|                 | Highest load<br>MW | var.% <sup>1</sup> | Load<br>representativity<br>% |
|-----------------|--------------------|--------------------|-------------------------------|
| AT              | 8400               | -2,2               | 100                           |
| BA              | 1702               | -5,1               | 100                           |
| BE <sup>2</sup> | 11025              | -12,9              | 100                           |
| BG              | 6125               | 5,1                | 99                            |
| CH              | 8646               | -3,4               | 100                           |
| CZ              | 8703               | -8,3               | 100                           |
| DE              | 72044              | -6,4               | 91                            |
| DK_W            | 3070               | -4,2               | 100                           |
| ES              | 34144              | 0,4                | 98                            |
| FR              | 63564              | -14,2              | 100                           |
| GR              | 7543               | 18,2               | 100                           |
| HR              | 2655               | -3,0               | 100                           |
| HU              | 5846               | -4,7               | 100                           |
| IT              | 43896              | -10,3              | 100                           |
| LU              | 956                | -9,1               | 100                           |
| ME <sup>3</sup> | 651                | n.a.               | 100                           |
| MK              | 1263               | -7,7               | 100                           |
| NL              | 14409              | -11,7              | 100                           |
| PL <sup>4</sup> | 20208              | -6,7               | 100                           |
| PT              | 6979               | -10,5              | 97                            |
| RO              | 7475               | -4,5               | 100                           |
| RS              | 6339               | 5,7                | 100                           |
| SI              | 1634               | -12,0              | 100                           |
| SK              | 3730               | -7,6               | 100                           |
| <b>UCTE</b>     | <b>337604</b>      | <b>-7,5</b>        |                               |
| UA_W            | 859                | 4,5                | 100                           |



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

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

<sup>3</sup> Highest load value as of March 2008

<sup>4</sup> Operational data

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