

Monthly report



January 2012

Monthly provisional values as of 07 June 2012

European Network of
Transmission System Operators
for Electricity



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General remarks and abbreviations used in the tables

- All values of production and consumption on page 2, 11 and 12 are calculated to represent 100% of the national values.
- CET Central European Time

| Countries | Net generation in GWh | | | | | | | | Exchange balance in GWh | Pump in GWh | Consumption | |
|-----------------|-----------------------|---------------|--------------|--------------|---------------|----------------|------------------|---------------------------|----------------------------|----------------|---------------|-------------|
| | Therm. nuclear | Fossil fuels | Hydro power | Other renew. | of which wind | of which solar | Non identifiable | Total | | | monthly [GWh] | var. [%] |
| AT | 0 | 2345 | 3074 | 0 | 0 | 0 | 767 | 6186 | 570 | 408 | 6348 | -1,1 |
| BA | 0 | 863 | 275 | 0 | 0 | 0 | 0 | 1138 | 57 | 34 | 1161 | 0,5 |
| BE ² | 4423 | 2509 | 160 | 636 | 309 | 35 | 0 | 7728 ¹ | 335 | 152 | 7911 | -9,2 |
| BG | 1445 | 2319 | 270 | 117 | 117 | 0 | 0 | 4151 | -485 | 114 | 3552 | 2,3 |
| CH | 2437 | 192 | 2796 | 118 | 6 | 0 | 0 | 5543 ¹ | 824 | 133 | 6234 | -0,5 |
| CY | 0 | 423 | 0 | 23 | 23 | 0 | 0 | 446 | 0 | 0 | 446 | 0,0 |
| CZ | 2691 | 4743 | 343 | 136 | 72 | 65 | 0 | 7913 ¹ | -1768 | 116 | 6029 | -2,0 |
| DE ³ | 8808 | 35730 | 1872 | 6668 | 3873 | 564 | 0 | 53078 ¹ | -2000 | 687 | 50391 | -2,6 |
| DK | 0 | 2147 | 2 | 1360 | 1147 | 0 | 0 | 3509 ¹ | -246 | 0 | 3263 | -3,9 |
| EE | 0 | 810 | 5 | 128 | 35 | 0 | 0 | 943 | -123 | 0 | 820 | -0,5 |
| ES | 5124 | 13493 | 1927 | 4663 | 3624 | 646 | 28 | 25235 | -522 | 450 | 24263 | 2,7 |
| FI | 2059 | 2337 | 1270 | 1044 | 39 | 0 | 58 | 6768 ¹ | 1762 | 0 | 8530 | -3,8 |
| FR | 42824 | 5400 | 6762 | 2251 | 1583 | 158 | 0 | 57237 | -5472 | 606 | 51159 | -4,8 |
| GB | 5705 | 21760 | 890 | 2420 | 1307 | 0 | 0 | 30775 | 1334 | 324 | 31786 | -2,8 |
| GR | 0 | 4002 | 278 | 387 | 306 | 45 | 0 | 4667 ¹ | 160 | 50 | 4777 | 4,2 |
| HR | 0 | 558 | 303 | 38 | 32 | 0 | 0 | 899 | 741 | 30 | 1610 | -2,8 |
| HU | 1523 | 1981 | 0 | 0 | 0 | 0 | 0 | 3504 | 321 | 0 | 3825 | 4,5 |
| IE | 0 | 1839 | 100 | 537 | 537 | 0 | 15 | 2491 ¹ | -113 | 0 | 2378 | -6,6 |
| IS | 0 | 0 | 1058 | 432 | 0 | 0 | 0 | 1490 | 0 | 0 | 1490 | 1,0 |
| IT | 0 | 19007 | 2413 | 2512 | 1252 | 805 | 0 | 23932 | 4188 | 252 | 27868 | 0,3 |
| LT | 0 | 345 | 95 | 62 | 50 | 0 | 0 | 502 ¹ | 533 | 69 | 966 | -1,6 |
| LU | 0 | 222 | 99 | 14 | 9 | 0 | 0 | 335 | 362 | 130 | 567 | -8,4 |
| LV | 0 | 288 | 209 | 22 | 6 | 0 | 0 | 519 | 205 | 0 | 724 | 3,0 |
| ME ⁴ | 0 | 126 | 326 | 0 | 0 | 0 | 0 | 452 | -44 | 0 | 408 | n.a. |
| MK | 0 | 502 | 106 | 0 | 0 | 0 | 0 | 608 | 317 | 0 | 925 | -3,7 |
| NI | 0 | 547 | 1 | 139 | 134 | 0 | 0 | 687 | 146 | 0 | 833 | -6,2 |
| NL | 363 | 8186 | 0 | 1666 | 666 | n.a. | 0 | 10215 | 745 | 0 | 10960 | -0,1 |
| NO | 0 | 282 | 15006 | 140 | 140 | 0 | 0 | 15428 ¹ | -1884 | 79 | 13465 | -0,5 |
| PL ⁵ | 0 | 12623 | 209 | 917 | 422 | 0 | 0 | 13749 ¹ | -453 | 55 | 13241 | 0,2 |
| PT | 0 | 2480 | 496 | 879 | 651 | 20 | 0 | 3855 ¹ | 860 | 78 | 4637 | -5,6 |
| RO | 974 | 2936 | 751 | 287 | 271 | 0 | 0 | 4948 | 42 | 4 | 4986 | -1,8 |
| RS | 0 | 3281 | 729 | 0 | 0 | 0 | 0 | 4010 | -294 | 47 | 3669 | -3,0 |
| SE | 5360 | 720 | 7165 | 1847 | 626 | 0 | 0 | 15092 ¹ | -567 | 0 | 14525 | -3,3 |
| SI | 516 | 451 | 155 | 0 | 0 | 0 | 0 | 1122 | 17 | 0 | 1139 | 19,6 |
| SK | 1336 | 515 | 399 | 66 | 0 | 20 | 103 | 2419 ¹ | 96 | 40 | 2475 | -2,8 |
| ENTSO-E | 85588 | 155962 | 49544 | 29509 | 17237 | 2358 | 971 | 321574¹ | -356 | 3858 | 317361 | n.a. |

¹ Including deliveries from industry

² The reported figures are best estimates based on actual measurements and extrapolations.

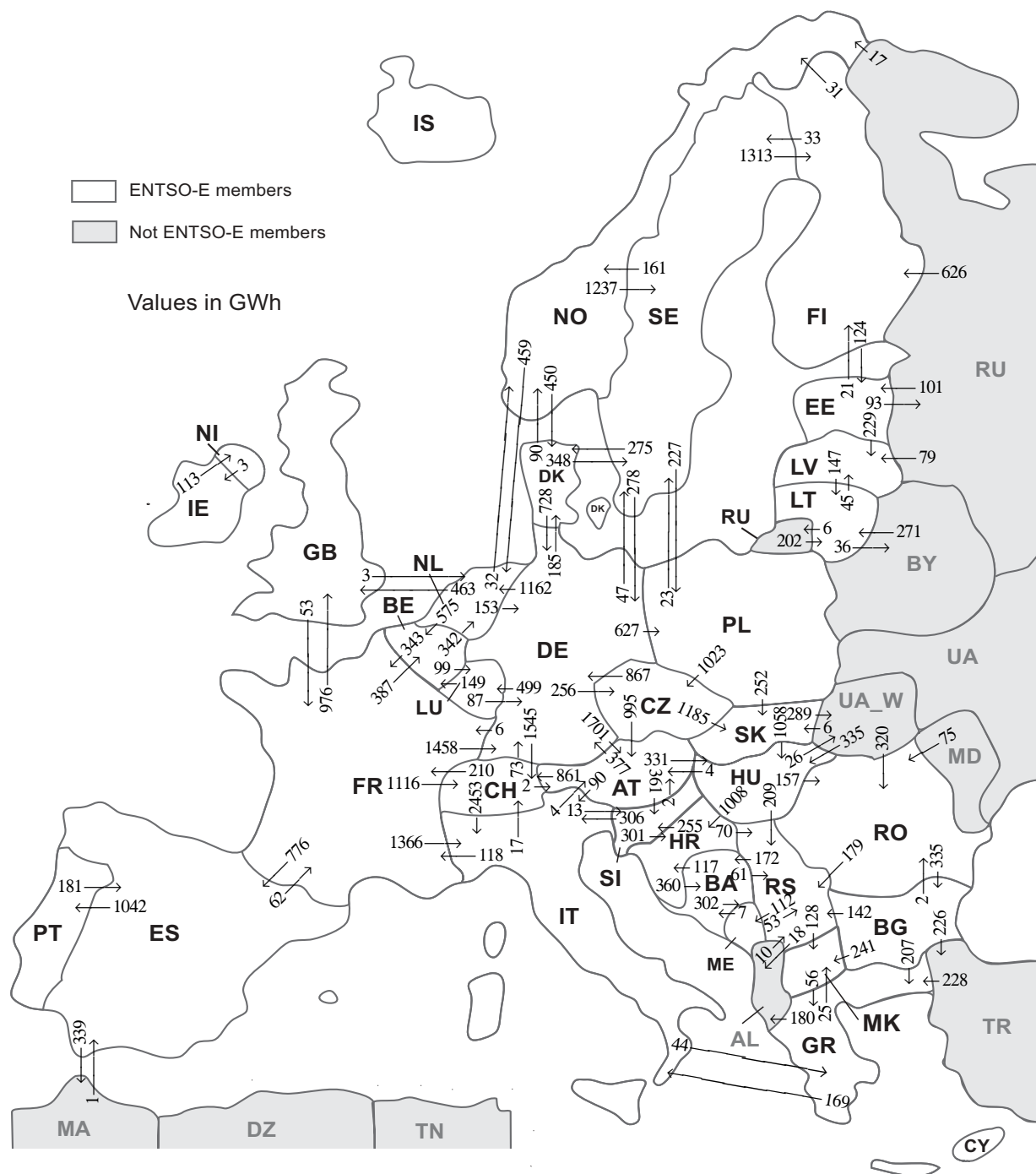
³ The reported figures are best estimates based on actual inquiries, measurements and extrapolations.

⁴ National monthly values as of January 2011

⁵ Operational data. Other renewable includes energy from biomass co-firing in conventional thermal units.

All representativities of the national generation and consumption values on page 2 used to calculate values at a representativity of 100% as stated in the table above:

| Countries | Representativities of the national values in % | | | | | Consumption |
|-----------|--|--------------|------------|-----------------|------------------|-------------|
| | Thermal nuclear | Fossil fuels | Hydro prod | Other renewable | Non identifiable | |
| AT | 100 | 100 | 100 | 100 | 100 | 100 |
| BA | 100 | 100 | 100 | 100 | 100 | 100 |
| BE | 100 | 100 | 100 | 100 | 100 | 100 |
| BG | 100 | 100 | 100 | 100 | 100 | 100 |
| CH | 100 | 100 | 100 | 100 | 100 | 100 |
| CY | 100 | 100 | 100 | 100 | 100 | 100 |
| CZ | 100 | 100 | 100 | 100 | 100 | 100 |
| DE | 100 | 100 | 100 | 100 | 100 | 100 |
| DK | 100 | 100 | 100 | 100 | 100 | 100 |
| EE | 100 | 100 | 100 | 100 | 100 | 100 |
| ES | 100 | 100 | 100 | 100 | 100 | 100 |
| FI | 100 | 100 | 100 | 100 | 100 | 100 |
| FR | 100 | 100 | 100 | 100 | 100 | 100 |
| GB | 100 | 96 | 89 | 54 | 100 | 100 |
| GR | 100 | 100 | 100 | 100 | 100 | 100 |
| HR | 100 | 100 | 100 | 100 | 100 | 100 |
| HU | 100 | 100 | 100 | 100 | 100 | 100 |
| IE | 100 | 100 | 100 | 100 | 100 | 100 |
| IS | 100 | 100 | 100 | 100 | 100 | 100 |
| IT | 100 | 100 | 100 | 100 | 100 | 100 |
| LT | 100 | 100 | 100 | 100 | 100 | 100 |
| LU | 100 | 100 | 100 | 100 | 100 | 100 |
| LV | 100 | 100 | 100 | 100 | 100 | 100 |
| ME | 100 | 100 | 100 | 100 | 100 | 100 |
| MK | 100 | 100 | 100 | 100 | 100 | 100 |
| NI | 100 | 100 | 100 | 100 | 100 | 100 |
| NL | 100 | 100 | 100 | 100 | 100 | 100 |
| NO | 100 | 100 | 100 | 100 | 100 | 100 |
| PL | 100 | 100 | 100 | 100 | 100 | 100 |
| PT | 100 | 100 | 100 | 100 | 100 | 100 |
| RO | 100 | 100 | 100 | 100 | 100 | 100 |
| RS | 100 | 100 | 100 | 100 | 100 | 100 |
| SE | 100 | 100 | 100 | 100 | 100 | 100 |
| SI | 100 | 100 | 100 | 100 | 100 | 100 |
| SK | 100 | 100 | 100 | 100 | 100 | 100 |



Sum of physical energy flows between ENTSO-E countries: **37388GWh¹**

Total physical energy flows: **40873GWh¹**

¹ Sum of physical energy flows without exchanges between ME-AL.

Not ENTSO-E members:

Albania, Belarus, Morocco, Republic of Moldavia, Republic of Turkey, Russia, Ukraine and Ukraine West

These physical energy flows were measured on the cross-frontier transmission lines (≤ 110 kV) listed in table characteristics of the cross-frontier lines published in the Statistical Yearbook. These values may differ from the official statistics and the exchange balances on page 2.

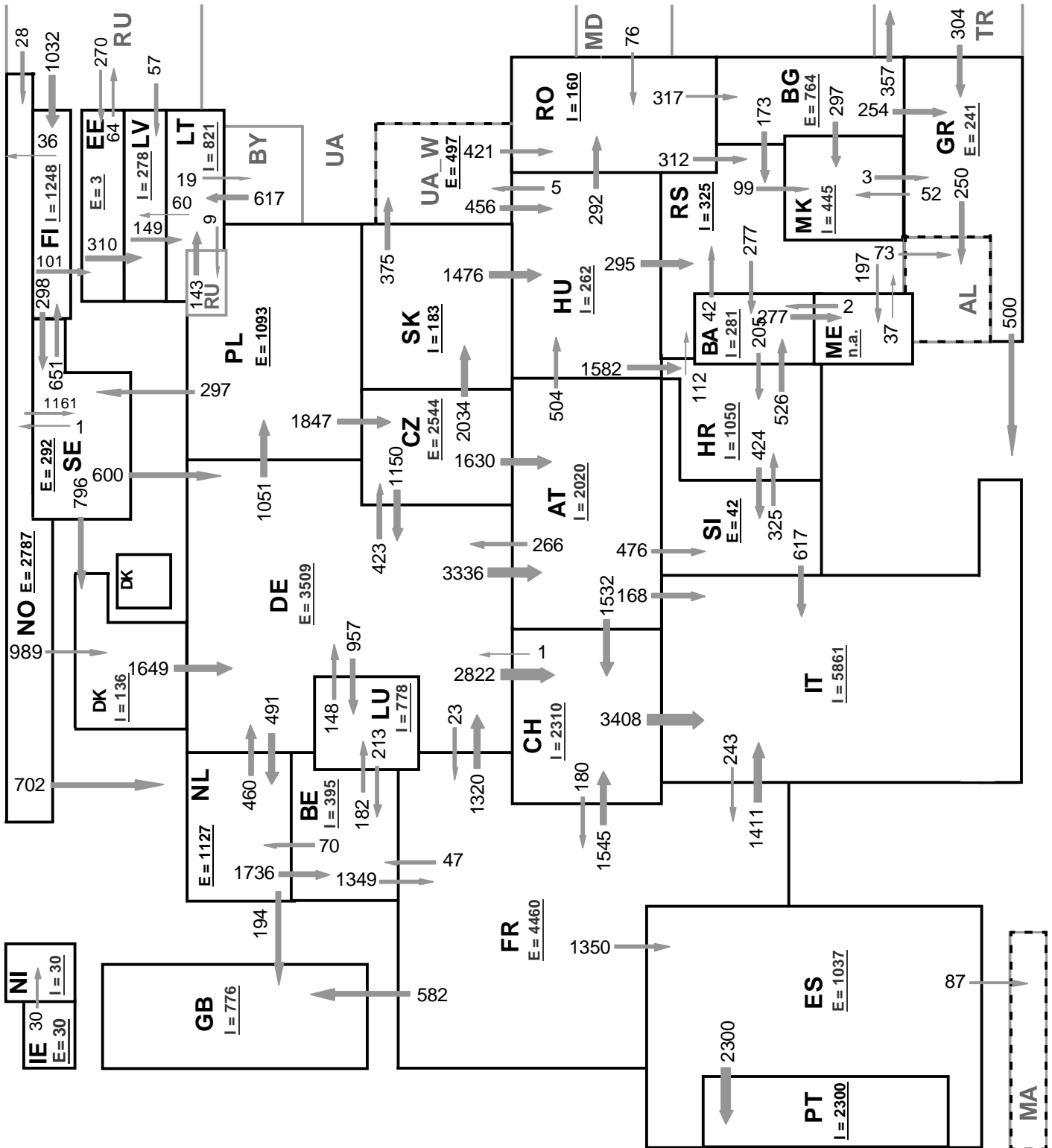
| Outside flows | Inside flows of the countries | | | | | | | | | | | | | | | | | | | | | | | | | | | UA_W | Other III ¹ | | | | | | | |
|------------------------|-------------------------------|-----|-----|-----|------|------|------|-----|-----|------|-----|-----|-----|-----|------|------|-----|------|-----|-----|----|------|-----|----|------|-----|------|------|------------------------|-----|----|-----|------|-----|------|-----|
| | AT | BA | BE | BG | CH | CZ | DE | DK | EE | ES | FI | FR | GB | GR | HR | HU | IE | IT | LT | LU | LV | ME | MK | NI | NL | NO | PL | | | PT | RO | RS | SE | SI | SK | |
| AT | - | - | - | - | 861 | 0 | 377 | - | - | - | - | - | - | - | - | 331 | - | 90 | - | - | - | - | - | - | - | - | - | - | - | - | - | 361 | - | - | | |
| BA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 117 | - | - | - | - | - | - | 302 | - | - | - | - | - | - | - | 61 | - | - | - | | | |
| BE | - | - | - | - | - | - | - | - | - | - | - | 343 | - | - | - | - | - | - | - | 99 | - | - | - | - | 342 | - | - | - | - | - | - | - | - | | | |
| BG | - | - | - | - | - | - | - | - | - | - | - | - | 207 | - | - | - | - | - | - | - | - | 241 | - | - | - | - | - | 2 | 142 | - | - | - | - | 226 | | |
| CH | 2 | - | - | - | - | - | 73 | - | - | - | - | 210 | - | - | - | - | - | 2453 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| CZ | 995 | - | - | - | - | - | 867 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1185 | - | | |
| DE | 1701 | - | - | - | 1545 | 256 | - | 185 | - | - | - | 6 | - | - | - | - | - | - | 499 | - | - | - | - | - | 1162 | 627 | - | - | - | 47 | - | - | - | - | | |
| DK | - | - | - | - | - | - | 728 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 90 | - | - | - | 348 | - | - | - | - | | |
| EE | - | - | - | - | - | - | - | - | - | - | 21 | - | - | - | - | - | - | - | - | 229 | - | - | - | - | - | - | - | - | - | - | - | - | - | 93 | | |
| ES | - | - | - | - | - | - | - | - | - | - | - | 62 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1042 | - | - | - | - | - | - | 339 | | |
| FI | - | - | - | - | - | - | - | - | 124 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 31 | - | - | - | - | 33 | - | - | - | 0 | | |
| FR | - | - | 387 | - | 1116 | - | 1458 | - | - | 776 | - | - | 976 | - | - | - | - | 1366 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| GB | - | - | - | - | - | - | - | - | - | - | - | 53 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| GR | - | - | - | 0 | - | - | - | - | - | - | - | - | - | - | - | - | 169 | - | - | - | - | 25 | - | 38 | 3 | - | - | - | - | - | - | - | - | - | 180 | |
| HR | - | 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | 70 | - | 255 | - | - | | |
| HU | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1008 | - | - | - | - | - | - | - | - | - | - | - | - | 157 | 209 | - | - | 0 | 26 | - | - | |
| IE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| IT | 4 | - | - | - | 17 | - | - | - | - | - | - | 118 | - | 44 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | - | |
| LT | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 42 |
| LU | - | - | 149 | - | - | - | 87 | - | - | - | - | - | - | - | - | - | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LV | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 147 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| ME | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | n.a. | |
| MK | - | - | - | 0 | - | - | - | - | - | - | - | - | 56 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NI | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NL | - | - | 575 | - | - | - | 153 | - | - | - | - | - | 463 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NO | - | - | - | - | - | - | - | 450 | - | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 459 | - | - | - | - | - | - | - | - | 0 | |
| PL | - | - | - | - | - | 1023 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| PT | - | - | - | - | - | - | - | - | - | 181 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RO | - | - | - | 335 | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| RS | - | 172 | - | 1 | - | - | - | - | - | - | - | - | - | - | 0 | 0 | - | - | - | - | - | 112 | 128 | - | - | - | - | - | 0 | - | - | - | - | - | 18 | |
| SE | - | - | - | - | - | - | 278 | 275 | - | 1313 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 161 | 227 | - | - | - | - | - | - | - | - | - |
| SI | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 301 | - | - | 306 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SK | - | - | - | - | 0 | - | - | - | - | - | - | - | - | - | - | 1058 | - | - | - | - | - | - | - | - | - | - | 0 | - | - | - | - | - | - | - | - | 289 |
| UA_W | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 335 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - |
| Other III ¹ | - | - | - | 1 | - | - | - | - | 101 | 1 | 626 | - | - | 228 | - | - | - | - | 473 | - | 79 | n.a. | - | - | - | 17 | 0 | - | 75 | 10 | - | - | - | - | - | |

Other III¹: Albania, Belarus, Morocco, Republic of Moldavia, Republic of Turkey, Russia and Ukraine

Sum of the monthly energy flows inside and outside of each country in GWh

| | flows inside | flows outside |
|----|--------------|---------------|
| AT | 2708 | 2020 |
| BA | 539 | 480 |
| BE | 1111 | 784 |
| BG | 337 | 818 |
| CH | 3539 | 2738 |
| CZ | 1279 | 3048 |
| DE | 4028 | 6028 |
| DK | 910 | 1166 |
| EE | 226 | 343 |
| ES | 958 | 1443 |
| FI | 1960 | 188 |
| FR | 792 | 6079 |
| GB | 1439 | 94 |
| GR | 535 | 374 |
| HR | 1426 | 685 |
| HU | 1724 | 1404 |
| IE | 3 | 113 |

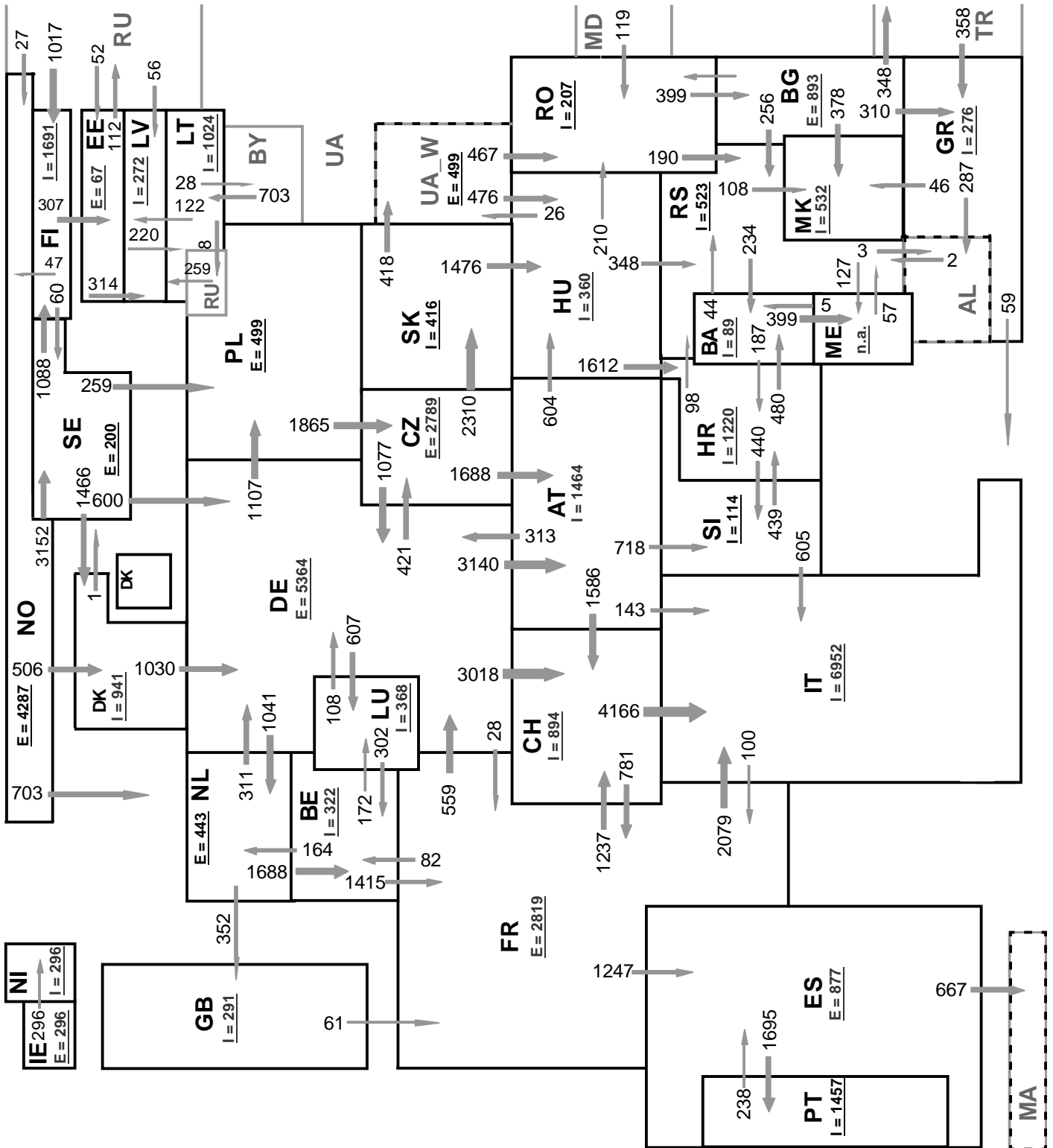
| | flows inside | flows outside |
|------|--------------|---------------|
| IT | 4384 | 196 |
| LT | 620 | 87 |
| LU | 598 | 236 |
| LV | 353 | 148 |
| ME | n.a. | n.a. |
| MK | 394 | 56 |
| NI | 151 | 3 |
| NL | 1966 | 1223 |
| NO | 331 | 2146 |
| PL | 855 | 1305 |
| PT | 1042 | 181 |
| RO | 554 | 514 |
| RS | 724 | 431 |
| SE | 1688 | 2254 |
| SI | 629 | 609 |
| SK | 1443 | 1347 |
| UA_W | 315 | 661 |



Sum of load flows in MW **ENTSO-E = 51972 MW** **Total = 56615 MW**
 (Calculated sum without data between ME - AL)

Synchronous operation with ENTSO-E region

I = Import balance
E = Export balance

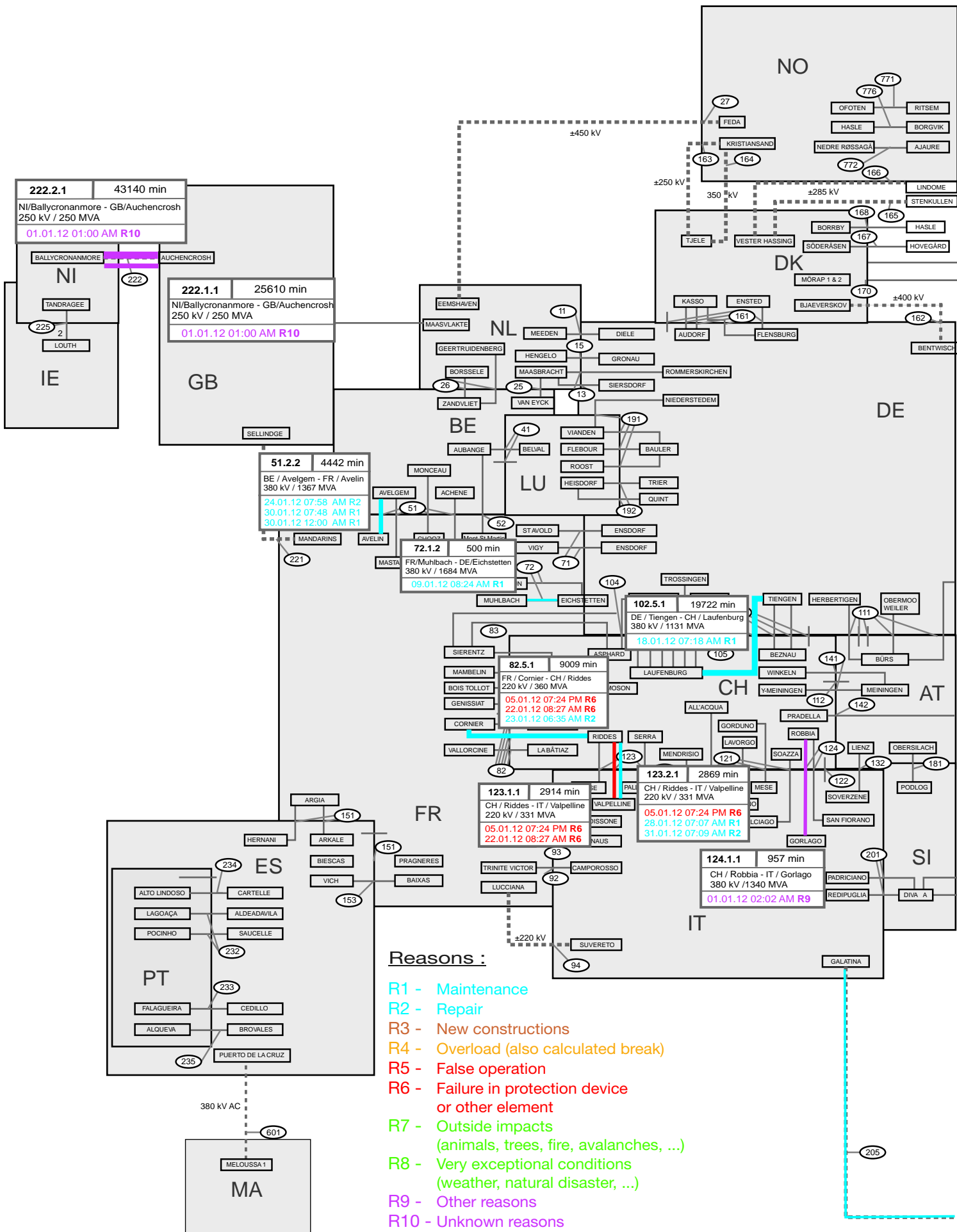


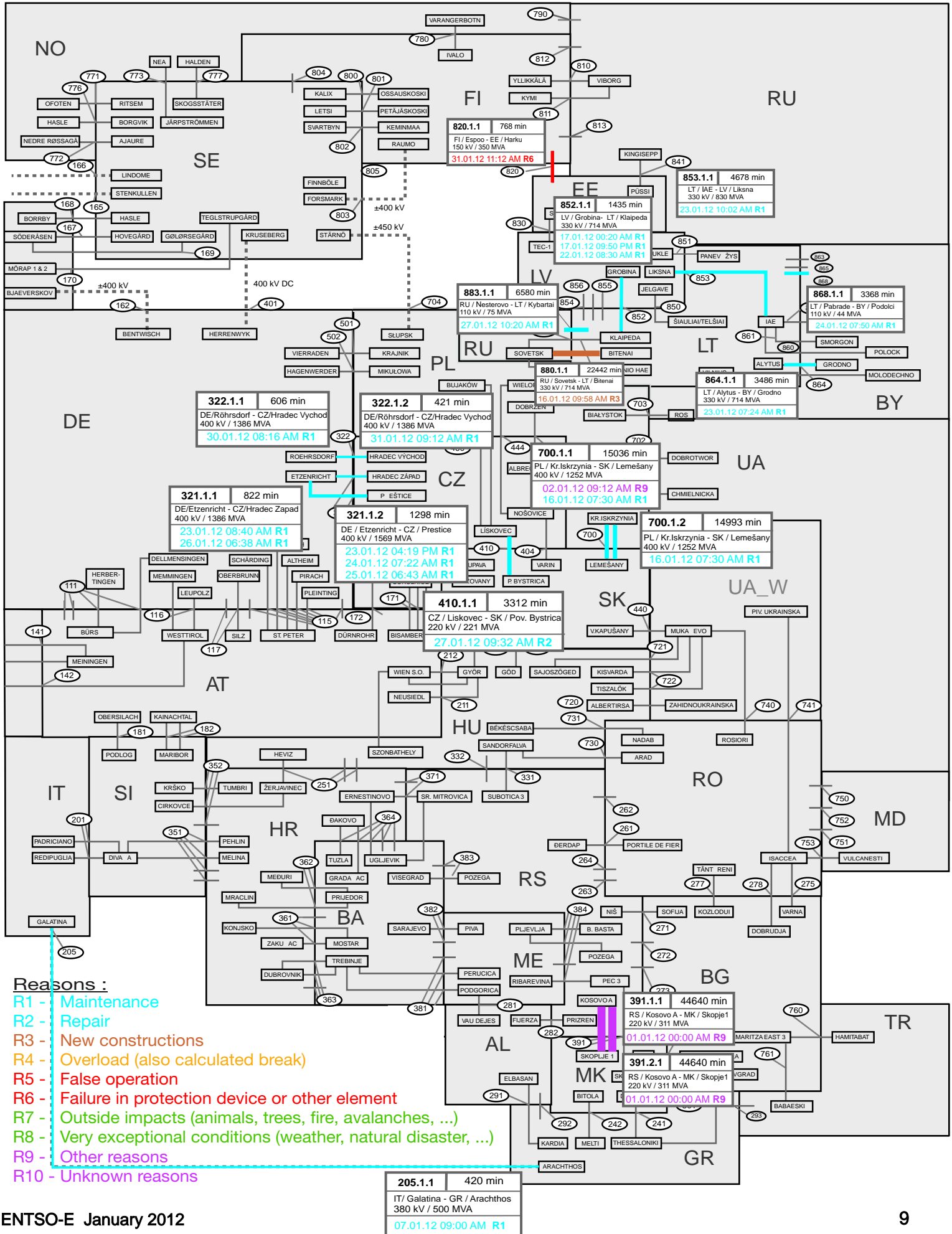
Sum of load flows in MW ENTSO-E = 54787 MW
 (Calculated sum without data between ME - AL)

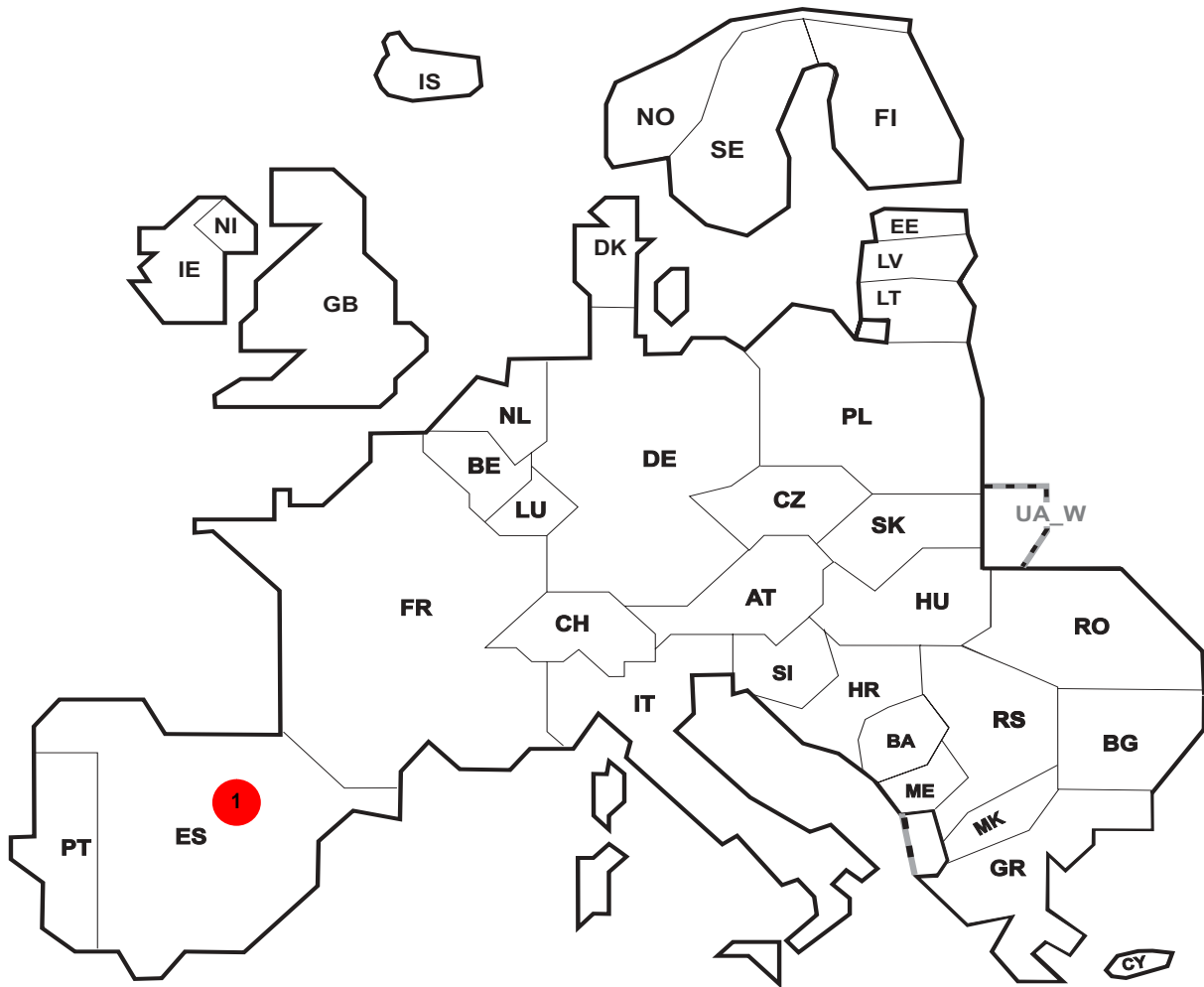
Total = 60534 MW

Synchronous operation with ENTSO-E 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 [MWh] | Total loss of power [MW] | Average interruption duration [min] | Equivalent time of interruption ¹ |
|----|---------|------------|--------|-----------------------------|----------------------------|---------------------------------------|--|
| 1 | ES | Morata | R6 | 2 | 6 | 21 | 0,004 |

Information about incidents in other countries are not shown with energy not supply equal zero or unavailable in the database.

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

Highest and lowest load on the 18.01.2012 CET of each country

| | Highest | | Low est | | Load representativity % |
|-----------------|---------------|-----------------------------|---------------|-----------------------------|-------------------------------|
| | load MW | variation % ¹ | load MW | variation % ¹ | |
| AT | 9432 | 2,0 | 6189 | 8,8 | 100 |
| BA | 1967 | 3,0 | 1218 | 9,6 | 100 |
| BE ² | 13212 | -4,8 | 9735 | -2,6 | 100 |
| BG | 6589 | 8,6 | 4528 | 10,7 | 99 |
| CH | 7773 | -22,3 | 6329 | -10,7 | 100 |
| CY ³ | 831 | 10,9 | 443 | 8,3 | 100 |
| CZ | 9577 | 1,0 | 7200 | 1,5 | 100 |
| DE ⁴ | 78488 | -10,8 | 55352 | -2,5 | 91 |
| DK | 5826 | -1,2 | 3105 | -5,3 | 100 |
| EE | 1317 | -0,2 | 883 | 0,9 | 100 |
| ES | 40973 | -0,9 | 25445 | 0,0 | 98 |
| FI | 12328 | -1,0 | 9960 | -1,8 | 100 |
| FR | 86539 | 5,0 | 68826 | 13,7 | 100 |
| GB | 56467 | -7,3 | 32540 | -2,2 | 92 |
| GR | 8243 | 12,0 | 5150 | 13,2 | 100 |
| HR | 2841 | 1,5 | 1810 | 8,1 | 100 |
| HU | 5707 | 0,2 | 3792 | 1,8 | 100 |
| IE | 4207 | -7,1 | 2324 | -9,8 | 100 |
| IS | 2111 | 1,6 | 1928 | 1,2 | 100 |
| IT | 51927 | 1,4 | 29624 | 3,4 | 100 |
| LT | 1660 | 3,3 | 952 | 0,7 | 100 |
| LU | 989 | -7,7 | 662 | -7,4 | 100 |
| LV | 1184 | 4,8 | 690 | 12,9 | 100 |
| ME ⁵ | 615 | n.a. | 405 | n.a. | 100 |
| MK | 1568 | 15,1 | 1059 | 7,7 | 100 |
| NI | 1599 | -4,9 | 795 | -6,0 | 100 |
| NL | 17301 | 0,5 | 9794 | -1,1 | 100 |
| NO | 20208 | -2,0 | 15695 | -3,3 | 100 |
| PL ⁶ | 22130 | 1,9 | 15065 | 4,2 | 100 |
| PT | 8143 | -0,2 | 4927 | -1,1 | 100 |
| RO | 8272 | 0,5 | 5724 | -0,6 | 100 |
| RS | 6765 | 2,5 | 4837 | 8,6 | 100 |
| SE | 22263 | -4,1 | 16176 | -2,7 | 100 |
| SI | 1944 | 1,9 | 1249 | -2,3 | 100 |
| SK | 4124 | 1,1 | 3096 | 1,6 | 100 |
| ENTSO-E | 521097 | n.a. | 360961 | n.a. | |

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 Only highest and lowest load value available.

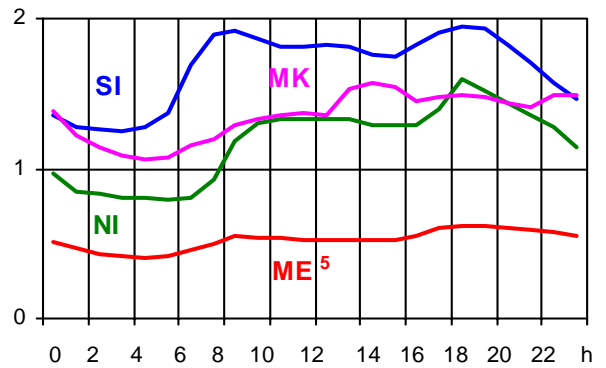
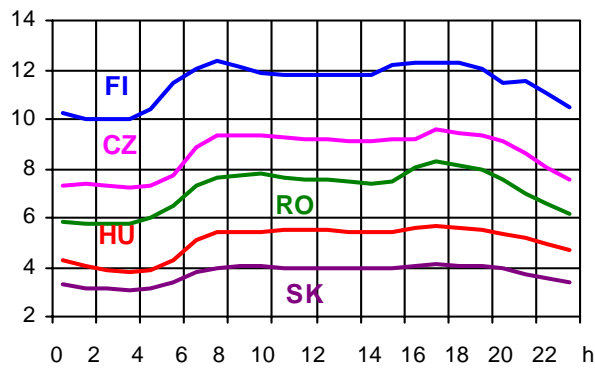
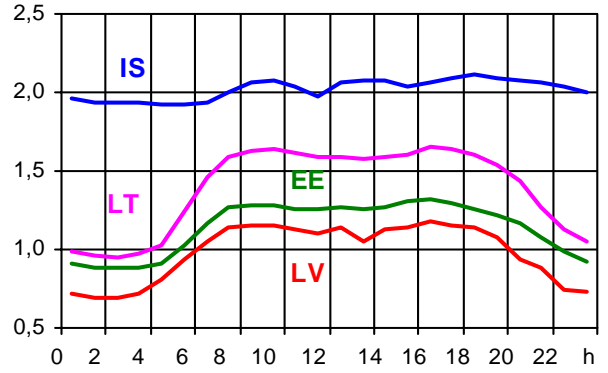
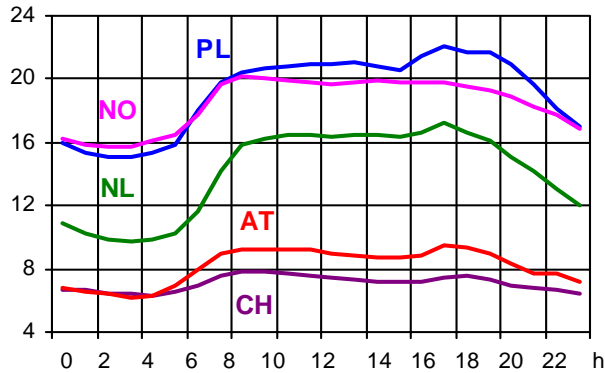
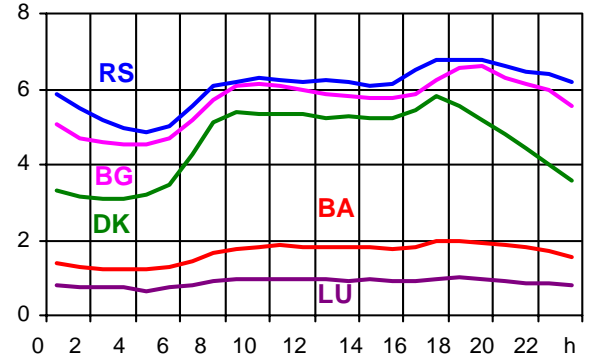
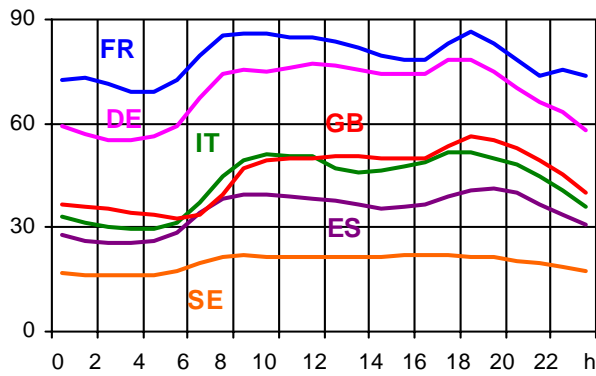
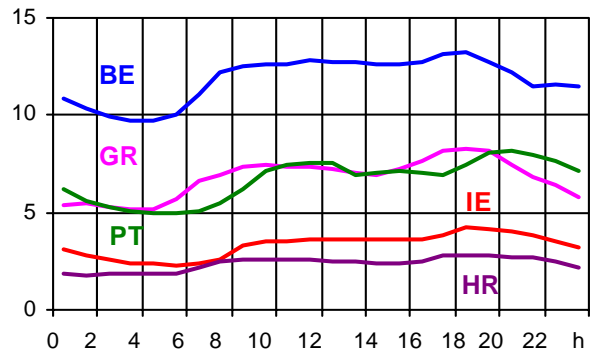
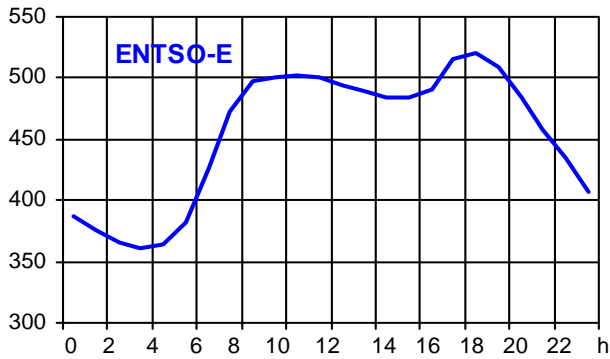
⁴ The reported figures are best estimates based on actual inquiries, measurements and extrapolations.

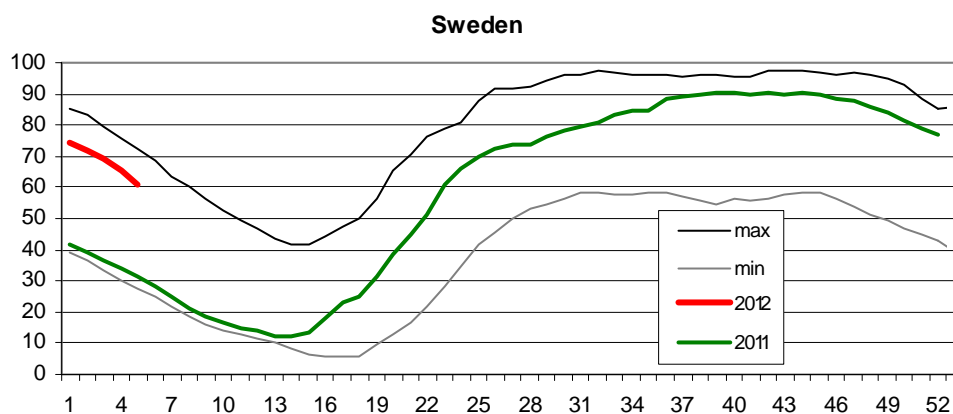
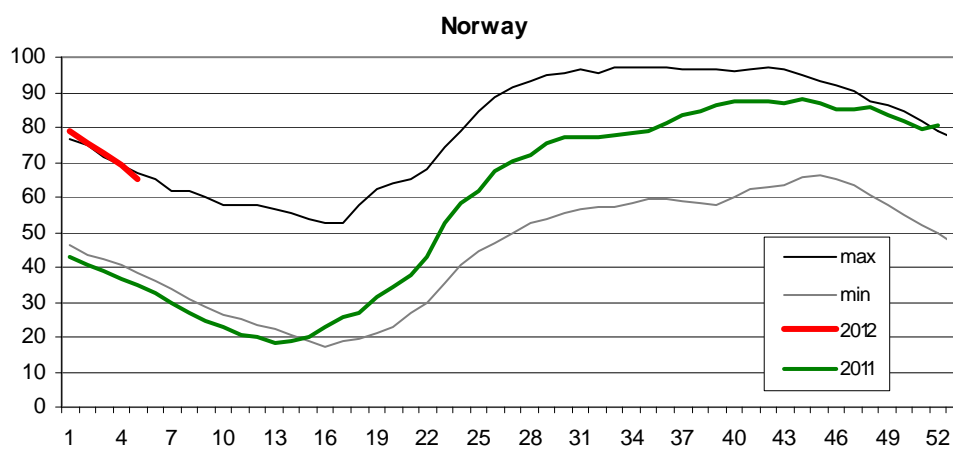
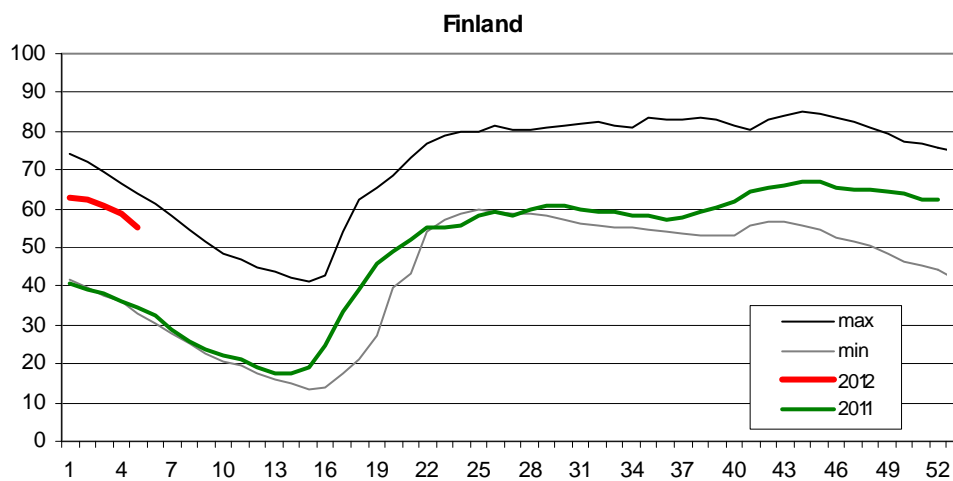
⁵ Monthly load values as of 19 January 2011

⁶ Operational data

Consumption hourly load curves on 18.01.2012 CET

Values in GW





- Finland:** Reservoir capacity: 5.530 GWh
Minimum and maximum limits are based on values for the years 1990-2002
- Norway:** Reservoir capacity: 81.729 GWh
The statistics are supposed to cover 97.1 percent of the total reservoir capacity.
The total reservoir capacity is 84 147 GWh
Minimum and maximum limits are based on values for the years 1990-2003
- Sweden:** Reservoir capacity: 33.758 GWh
Minimum and maximum limits are based on values for the years 1950-2006

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