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1 Monthly provisional values from the UCTE database as of 03 June 2005
All values are calculated to represent 100% of the national values

### Electricity supply situation of the countries

February 2005

#### Net production in GWh

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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

### Production

| 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 |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|
| Therm. nuclear | 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 | 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 |
| Other renew. | n.a. | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Not identify | n.a. | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

### Consumption

| 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 |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|
| 90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
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.

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

| Exporting 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 | Other III | Sum Imp | Sum Export |
|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|----------|----------|
| AT                  |    | 821| 0  | 455|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 116  | 1567   | 13767   |
| BA                  |    | 45 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 270  | 623    |
| BE                  |    | 442|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2795  | 6096   |
| BG                  |    | 411|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2776  | 6146   |
| CH                  | 0  | 327|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2776  | 6146   |
| CS                  | 100| 0  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 635   | 2042   |
| CZ                  | 554| 976|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2085  | 6287   |
| DE                  | 1475|1797|51 | 120|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1379  | 4469   |
| ES                  |    | 30 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 31    | 743    |
| FR                  | 163| 605|698| 741|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 3793  | 9111   |
| GR                  | 0  |    | 118|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 106   | 193    |
| HR                  | 131|    | 688|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 819   | 2085   |
| HU                  | 24 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 877   | 2085   |
| IT                  | 0  | 63 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 96    | 2085   |
| LU                  | 48 | 37 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 111   | 2085   |
| MK                  | 0  | 0  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 37    | 2085   |
| NL                  | 789|    | 12 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 789   | 2085   |
| PL                  |    | 1024|17 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1331  | 2085   |
| PT                  |    | 338|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 338   | 2085   |
| RO                  | 60 | 304|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 6     | 469    |
| SI                  | 40 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 811   | 2085   |
| SK                  |    | 49 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1043  | 2085   |
| DK_W                |    | 334|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 101   | 835    |
| UA_W                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 552   | 2085   |
| Other III1          | 112| 626|152| 208|0  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 507   | 1753   |
| **Sum Imp**         | 2093|1090|60 | 323|986|1124|3659|1094|1233|448|1289|1379|4488|506 |175|2049|616|682|107|804|557|178|896|29567 |
| **Sum Export**      | 25454|GWh |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 29567 |

Sum of physical energy flows between UCTE countries = 25454 GWh
Total physical energy flows = 29567 GWh

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.

### Monthly consumption

#### 2004 vs 2005

- **UCTE**: The graph shows the trend of UCTE's consumption across months from January to December in both years. The consumption varies significantly, with peaks and troughs throughout the year.

- **DE, FR, IT, ES, PL**: The graphs for individual countries show their consumption patterns distinctly. Each line represents a country, and the y-axis indicates the consumption in TWh.

- **NL, BE, AT, CH, PT**: These graphs display the consumption patterns for the respective countries. Each country's graph shows variations in consumption over the months, with peaks and troughs reflecting their energy consumption trends.

The graphs illustrate the overall trend of energy consumption, highlighting the differences and similarities in consumption patterns across countries and years.
All values are calculated to represent 100% of the national values

\[ UA_W \text{ represents the so-called Burshtyn Island synchronously interconnected with UCTE} \]
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.
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)
Load flows (night) on 16.02.05 at 03:00* in MW

February 2005

Associate member

Synchronous operation with first region

Sum of load flows in MW:

UCTE = 37569MW
Total = 42200MW

* Central European Time (CET)
I = Import balance
E = Export balance

UCTE February 2005
Load flows (day) on 16.02.05 at 11:00* in MW

February 2005

Sum of load flows in MW:

UCTE = 37991MW  Total = 43862MW

* Central European Time (CET)
I = Import balance
E = Export balance

Associate member
Synchronous operation with first region
Unavailability of international tie lines
( major events with sum over 300 minutes )

Reasons:
R1 - Maintenance
R2 - Repair
R3 - New constructions
R4 - Overload (also calculated break)
R5 - False operation
R6 - Failure in production device or other element
R7 - Outside impacts (animals, trees, fire, avalanches, ...)
R8 - Very exceptional conditions (weather, natural disaster, ...)
R9 - Other reasons
R10 - Unknown reasons
Unavailability of international tie lines
(major events with sum over 300 minutes)

February 2005
## Network Reliability (Major Events)

**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

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

**Values in GW**

<table>
<thead>
<tr>
<th>Country</th>
<th>Peak load MW</th>
<th>Load representativity(^1)</th>
<th>Parallel power MW</th>
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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