

## ENERGY CONSUMPTION IN 'INDUSTRY' SECTOR

### METHODOLOGICAL NOTES

Energy consumption in the Industry sector is part of the Final Energy Consumption indicator of the Overall Energy Balance of the country. It includes the quantities of fuels and energy consumed by enterprises in the Industry sector for their main activities during a given reference year, allocated at national level by aggregated levels of economic activities, according to the Statistical classification of economic activities (NACE Rev. 2).

Data are reported for the following energy products:

- Solid Fossil Fuels, incl.: Anthracite, Other bituminous coal, Lignite, Coke Oven Coke, BKB (incl. Dried Lignite) - in thousand tonnes and in TJ on net calorific value (NCV);
- Oil and Petroleum products, incl.: Refinery Gas, LPG, Gas/Diesel Oil, Fuel Oil, Petroleum Coke and Other Oil Products - in thousand tonnes and in TJ (NCV);
- Natural gas - in TJ on gross calorific value (GCV) and in TJ (NCV);
- Renewable fuels and energy, incl.: Primary Solid Biofuels, Biogases and Municipal Waste (renewable) - in TJ (NCV);
- Industrial Waste (non-renewable) - in TJ (NCV);
- Derived Heat - in TJ (NCV);
- Electricity - in GWh and in TJ (NCV).

For the aggregated item 'Total energy products' in TJ (NCV), the individual energy products in TJ (NCV) are summed up, such as:

- Electricity is converted from GWh to TJ (NCV) using the constant coefficient 3.6;
- Natural gas is converted from TJ (GCV) to TJ (NCV) using the constant coefficient 0.9;
- The individual energy products from the aggregated positions 'Oil and Petroleum products', as well as 'Solid Fossil Fuels', are converted from thousand tonnes to TJ (NCV) using the corresponding net calorific value for the reference year.

The survey includes the following aggregated economic activities according to the NACE Rev. 2:

#### Mining and quarrying (Section B)

- Mining of metal ores (Division 07), Other mining and quarrying (Division 08) and Mining support service activities (Division 09),

incl.:

- Mining of metal ores (Division 07) excl. class 07.21 - Mining of uranium and thorium ores;
- Other mining and quarrying (Division 08) excl. class 08.92 - Extraction of peat;
- Mining support service activities (Division 09) excl. group 09.1 - Support activities for petroleum and natural gas extraction;

#### Manufacturing (Section C)

- Manufacture of food products (Division 10), Manufacture of beverages (Division 11) and Manufacture of tobacco products (Division 12);

incl.:

- Manufacture of food products (Division 10);
- Manufacture of beverages (Division 11);
- Manufacture of tobacco products (Division 12);

- Manufacture of textiles (Division 13), Manufacture of wearing apparel (Division 14) and Manufacture of leather and related products (Division 15);

- Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials (Division 16);

- Manufacture of paper and paper products (Division 17) and Printing and reproduction of recorded media (Division 18),

incl.:

- Manufacture of paper and paper products (Division 17) incl. Manufacture of pulp (class 17.11) and Division 17 excl. Class 17.11;

- Printing and reproduction of recorded media (Division 18);

▪ Manufacture of chemicals and chemical products (Division 20) and Manufacture of basic pharmaceutical products and pharmaceutical preparations (Division 21),

incl.:

- Manufacture of chemicals and chemical products (Division 20);

- Manufacture of basic pharmaceutical products and pharmaceutical preparations (Division 21);

▪ Manufacture of other non-metallic mineral products (Division 23),

incl.:

- Manufacture of cement, lime and plaster (Group 23.5);

- Manufacture of glass and glass products (Group 23.1);

- Manufacture of other non-metallic mineral products (Division 23) excl. Groups 23.1 and 23.5;

▪ Manufacture of basic metals (Divisions 24A and 24B),

incl.:

- Iron and steel (Division 24A): Manufacture of basic iron and steel and of ferro-alloys (Group 24.1), Manufacture of tubes, pipes, hollow profiles and related fittings, of steel (Group 24.2), Manufacture of other products of first processing of steel (Group 24.3), Casting of iron (Class 24.51) and Casting of steel (Class 24.52);

- Non-ferrous metals (Division 24B): Manufacture of basic precious and other non-ferrous metals (Group 24.4), Casting of light metals (Class 24.53) and Casting of other non-ferrous metals (Class 24.54), incl.: Aluminium production (Class 24.42), Casting of light metals (Class 24.53), Casting of other non-ferrous metals (Class 24.54), Group 24.4 excl. Aluminium production (Class 24.42);

▪ Manufacture of fabricated metal products, except machinery and equipment, Manufacture of computer, electronic and optical products, Manufacture of electrical equipment and Manufacture of machinery and equipment n.e.c. (Divisions 25, 26, 27 and 28),

incl.:

- Manufacture of fabricated metal products, except machinery and equipment (Division 25);

- Manufacture of computer, electronic and optical products (Division 26);

- Manufacture of electrical equipment (Division 27);

- Manufacture of machinery and equipment n.e.c. (Division 28);

▪ Manufacture of motor vehicles, trailers and semi-trailers and Manufacture of other transport equipment (Divisions 29 и 30);

▪ Manufacture of rubber and plastic products, Manufacture of furniture and Other manufacturing (Divisions 22, 31 and 32),

incl.:

- Manufacture of rubber and plastic products (Division 22);

- Manufacture of furniture (Division 31);

- Other manufacturing (Division 32);

#### Construction (Section F).

Fuels and energy consumption related to agricultural activities is not included.

Fuels and energy used for transport in some of the above aggregated economic activities is reported in the Transport sector, not in the Industry sector, according to the methodology for compiling the Overall Energy Balance.

For the calculation of the data, as well as for the preparation of the Overall Energy Balance, annual data from the statistical surveys 'Consumption of fuels and energy', 'Supplies of electricity, heat, natural gas and lubricants to end users', 'Electricity and heat production' are used in combination with administrative data from the Executive Environment Agency.