

## Explanations to the methodology applied (indicators)

Under the term consumption of fuels and energy for production of selected products is understood final consumption of fuels, heat and power before they are brought to appliances in which comes to the exploitation of their final useful effect so that another kind of registered fuels and energy kind no more arises, with exception of secondary energy sources.

### TABLE OF PRODUCTS - ITEMS

#### 1st row

- Product's title
- Energy code – code classification ENERG

#### 2nd row:

- Specific unit - SU - specific unit for a product's production (t, m<sup>3</sup>, th.m<sup>2</sup>, th. m<sup>3</sup>, t a.a = t 100 % alcohol etc.)

#### 3rd row:

Production - Total annual production of a product measured in specific physical unit SU.

#### 4th and 5th row: Consumption of electricity

- Total consumption - Total annual electricity consumption (MWh)
- Specific consumption - eg. total consumption/production; calculated in kWh/SU

#### 6th and 7th row: Consumption of heat

- **Total consumption - Total annual consumption of heat (GJ)**
- Specific consumption - eg. total consumption/production (GJ/SU)

#### 8th and 9th row: Consumption of fuels

- Overall consumption - Total annual consumption of fuels (GJ)
- Specific consumption - eg. total consumption/production (GJ/SU)

#### 10th and 11th row: Occurrence of secondary energy sources

- Emergence of energetically utilizable waste heat, oder exothermic heat arising during production process, total (/GJ)
- Emergence of directly energetically utilizable secondary fuels arising during production process, total (GJ) - (for instance top gas or nitrogen rich gas, biogas, combustible wastes etc.)

#### 12th and 13th row: Consumption of energy, total energy consumption

- Total consumption (total) - total annual energy consumption (GJ)
- Specific consumption - eg. total consumption/production (GJ/SU)

**Comment:** Items relating to secondary energy sources were surveyed till 1991 and from 2014 year.

### Completion of definitions and new calculations of units with some items

#### Bricks:

**Brick unit:** a brick of size 25 x 12 x 6,5 cm

1000 c.j. = 1,95 m<sup>3</sup>

**Normal-sized brick** = a brick of size 29 x 14 x 6,5 cm (= 1,3 c.j.)

1000 pcs. of normal-sized bricks = 2,639 m<sup>3</sup>

**White brick** = a brick of size 24 x 12,5 x 6,5 cm (1 c.j.)

1000 pcs. white bricks = 1,95 m<sup>3</sup>

#### Perforated bricks:

Perforated bricks of size 36,5 x 24,5 x 14,5 cm (=6,65 c.j.)

1000 pcs. perforated bricks = 12,966 m<sup>3</sup>

Perforated bricks II. of size 49 x 24,5 x 14 cm (= 8, 62 c.j.)  
1000 pcs. perforated brick II. = 16, 807 m<sup>3</sup>

**Cinder concrete bricks:**

Cinder concrete bricks of size 38 x 25 x 22 cm (10,72 c.j.)

1000 pcs. cinder concrete bricks = 20,9 m<sup>3</sup>

Cinder concrete bricks II. of size 38 x 30 x 20 cm (= 11,7 c.j.)

1000 pcs. cinder concrete bricks II. = 22,8 m<sup>3</sup>

**Burnt roofing:**

**HOLLAND TYPE:**

Maximal surface mass = 45 kg/m<sup>2</sup>

Number of pcs/m<sup>2</sup> = 14,4 pcs.

Unit mass = 3,1 kg/pcs.

**BOBROVKA TYPE**

Maximal surface mass = 70 kg/m<sup>2</sup>

Number of pieces/m<sup>2</sup> = is between 36 and 38 pcs.

Average specific mass is equal to approximately 1,8 kg/pcs