

# Fuels, electricity and heat consumption

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2 Metadata update	
2.1 Date of last update	31.03.2023
3 Statistical presentation	
3.1 Data description	
Data on fuels, electricity and heat consumption in the selected sectors for the companies with more than 20 employees.	
3.2 Classification system	
Internal classifier of the fuels is used by data collection.	
3.3 Sector coverage	
Consumers of the monitored products.	
3.4 Statistical concepts and definitions	
Main concepts and definitions can be found on the questionnaire:  Fuels consumption — figures consumption of individual fuels types including input and operating consumption in processes of electricity and heat generation as well as in fuels upgrading. The consumption of gasolines and diesel oils include the consumption in road transport.  Heat consumption — figures purchased heat consumption and consumption of heat produced from own sources, which is presented only for heat produced on boilers with nominal capacity 0,35 MW (eventually for heat produced in boiler plants, where is one boiler with nominal capacity 0,35 MW /t/ or higher, at least). In comparison with previous years the heat consumption is reported differently (includes heat consumption for electricity generation).	

Electricity consumption — figures electricity consumption including own consumption for electricity and heat generation and consumption for pumping, as well.

### 3.5 Statistical unit

Company is the monitored unit, as well as reporting unit.

### 3.6 Statistical population

Consumers of electricity, heat and fuels listed in the fuel classifier.

### 3.7 Reference area

Fuels, electricity and heat consumption is at disposal for the Slovak Republic and for individual regions and districts.

### 3.8 Time coverage

SO SR database contains data on fuels, electricity and heat consumption since 2000.

### 3.9 Base period

Irrelevant.

## 4 Unit of measure

Data in GJ, MWh, 1000m<sup>3</sup> and tonnes.

## 5 Reference period

Reference period is a calendar year.

## 6 Institutional mandate

### 6.1 Legal acts and other agreements

Regulation of European Parliament and Council (EC) No. 1099/2008 from 22nd October on energy statistics.

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A02008R1099-20220220>

The right to collect data in general is covered by the Act No. 540/2001 Coll. on State Statistics in wording of later regulations.

<https://www.slov-lex.sk/pravne-predpisy/SK/ZZ/2001/540/>

Liability to provide data is embodied in the decree, according to which the Programme of State Statistical Surveys (PSSS) is being issued. PSSS is fixed for the period of three years.

<https://slovak.statistics.sk/wps/portal/ext/metadata/programme>

## 6.2 Data sharing

Statistical data are the source for fulfilling the duties of the Slovak Republic resulting from the requests of the European Statistical System, requests of the international institutions and for providing the needs of national information system.

## 7 Confidentiality

### 7.1 Confidentiality - policy

Confidentiality protection (protection of confidential statistical data) is the system of mutually interlinked measures in legislative, methodological, organizational, technical and personal field preventing from confidential statistical data leakage or preliminary publication of statistical information. Bodies executing the state policy are liable for ensuring the protection of confidential statistical data from misuse according to §25a and §29 and §30 of the Act No. 540/2001 Coll. on State Statistics in wording of later regulations. Principles of application of confidential statistical data are available at SO SR web page

<https://slovak.statistics.sk/wps/portal/ext/services/infoservis/confidential>

### 7.2 Confidentiality - data treatment

Confidential data are not being published. There is a sign "D" at corresponding places in SO SR publications and databases instead of data.

## 8 Release policy

### 8.1 Release calendar

Releasing the described data range according to the internal schedule.

### 8.2 Release calendar access

First release calendar contains the time schedule of the first publication of selected indicators for the period of the following 4 months. It is available at SO SR web page:

<https://slovak.statistics.sk/wps/portal/ext/products/Prve-Zverejnenie-Kalendar>

Catalogue of publications contains basic information on issued publications, dates of issue and language version. All the publications are available at internet portal of the Statistical Office of the SR. Catalogue of publications is available at SO SR web page:

<https://slovak.statistics.sk/wps/portal/ext/products/publikacie/catalogue>

### 8.3 User access

Policy of statistical information dissemination is stated in accordance with the Act on State Statistics, development strategy of the Statistical Office of the SR, strategy of Eurostat information dissemination and the European Statistics Code of Practice.

Principles of publication and providing the statistical data are available at SO SR web page:

<https://slovak.statistics.sk/wps/portal/ext/services/infoservis/principles>

## 9 Frequency of dissemination

Yearly.

## 10 Accessibility and clarity

### 10.1 News release

### 10.2 Publications

Publication "Energy" available at SO SR web page:

<https://slovak.statistics.sk/wps/portal/ext/themes/multi/energy/publications>

Statistical Yearbook of the Slovak Republic — contains selected indicators also for the energy sector.

### 10.3 On-line database

SO SR databases: DATAcube, STATdat, access on the web address:

<https://slovak.statistics.sk/wps/portal/ext/Databases>

### 10.4 Micro-data access

Micro-data are not being published. Access to the anonymized micro-data is granted to the following research subjects only for academic purposes:

- universities and other educational organization of advanced education
- research organizations or institutions

Terms of granting an access to the confidential statistical data for academic purposes are available at SO SR web page:

<https://slovak.statistics.sk/wps/portal/ext/services/infoservis/access>

## 10.5 Other

## 10.6 Documentation on methodology

Methodology is described in the questionnaire Energ 6-01.

<https://slovak.statistics.sk/wps/portal/ext/metadata/surveys/>

## 10.7 Quality documentation

Internal SO SR documentation for providing the quality of statistical outputs:

- Methodological guideline for applying the mathematical and statistical methods for statistical survey
- Methodological guideline: Quality indicators of statistical outputs and statistical processes

# 11 Quality management

## 11.1 Quality assurance

There is a system of quality management established at SO SR. Quality manual contains the description of quality management system and fulfilling the demands of ISO 9001 certificate. Application of the manual in praxis provides that all the activities influencing the quality of the selected products are planned, managed, reviewed, assessed and fulfill the demands accepted in the order. Quality manual is available at:

<https://slovak.statistics.sk/wps/portal/ext/aboutus/key.documents/book.of.quality/> !ut/

European Statistics Code of Practice is the basis for the entire quality management system:

<https://slovak.statistics.sk/wps/portal/ext/aboutus/key.documents/code.of.practise>

## 11.2 Quality assessment

At present technical projects for each statistical survey including all the necessary issues concerning the data input, data completeness and statistical checks are being elaborated. This process is organized by the specialized regional offices of the Statistical Office of the SR. Inter-check in the context of checkout process is being carried out. Comparison with the development for the elapsed period is being carried out.

Data quality on fuels, electricity and heat consumption is good.

# 12 Relevance

## 12.1 User needs

Information on fuels and electricity sources are necessary for energy policy making and monitoring.

Eurostat and central bodies of the state administration are the key users.

## 12.2 User satisfaction

Since 2009 Statistical Office of the SR has been realizing customers' satisfaction surveys with its products and services in two-years interval. The aim of the surveys is to gain information on interest and opinion of the users with providing and quality of the statistical products and services. This information is a valuable source for routing the other SO SR activities. The results of the satisfaction survey in 2017 is available at SO SR web page:

<https://slovak.statistics.sk/wps/portal/ext/aboutus/marketing/survey.of.satisfaction>

## 12.3 Completeness

Data time series for individual indicators are available in the public SO SR database <http://datacube.statistics.sk> and in Eurostat database: <https://ec.europa.eu/eurostat/web/main/data/database>.

# 13 Accuracy and reliability

## 13.1 Overall accuracy

Most of the checks are being realized automatically in the process of data entry (numeric range, relations among variables). Checks are being applied also to the outputs. Errors are directly consulted with the reporting units.

## 13.2 Sampling error

## 13.3 Non-sampling error

To avoid non-sampling errors, that means errors in the process of collection and processing, SO SR has in the integrated statistical information system (ISIS) built-in logical and data checks at the level of micro-data that are carried out during the collection and data processing.

The electronic questionnaire itself provides various arithmetic and logical checks among variables that are either significant or informative. In case of significant errors in the questionnaire, it is not accepted and following the consultation with the reporting unit it is corrected and subsequently processed. By means of these tools we try to minimize errors in the collection itself and subsequently during the data processing.

# 14 Timeliness and punctuality

## 14.1 Timeliness

Data publishing in the public SO SR database "DATACUBE" is in accordance with the schedule of its update. Reporting units are obliged to submit the data till 31.3. of the year following the reporting period.

## 14.2 Punctuality

Publishing dates are being met.

## 15 Coherence and comparability

### 15.1 Comparability - geographical

Fuels, electricity and heat consumption is compiled for the entire Slovak Republic territory, regions and districts.

### 15.2 Comparability - over time

Basic data is comparable over time series.

### 15.3 Coherence - cross domain

### 15.4 Coherence - internal

There are no discrepancies, statistical outputs are internally consistent.

## 16 Cost and burden

SO SR monitors regularly the burden of the reporting units. Within the statistical surveys optimization, it accepts measures aimed at reducing its burden. Cost and burden on the level of European statistical products and its monitoring is in the competence of Group of Directors for the sources within Eurostat.

## 17 Data revision

### 17.1 Data revision - policy

Revision policy adjusts the basic rules and general methods due to which the preliminary data are firstly revised, as well as implemented in the revisions for other reasons. Policy and revision calendar is available at SO SR web page:

<https://slovak.statistics.sk/wps/portal/ext/products/revisions>

### 17.2 Data revision - practice

By the first release data is considered as definite and usually is not the subject of revision. In case of whatever revision (also for the previous years) there is a note in databases and in relevant SO SR publications warning that data was revised. Changes in methodology are announced after its implementation through the form of methodological explanations or notes to the published data.

## **18 Statistical processing**

### **18.1 Source data**

Fuels, electricity and heat consumption is being compiled following the exhaustive survey /Energ 6-1/.

### **18.2 Frequency of data collection**

Yearly.

### **18.3 Data collection**

Electronic data collection enabling to the reporting units to fill-in the statistical questionnaires online in the integrated statistical information system (ISIS).  
Since 1st January 2006 reporting units (corporate entities, physical entities — entrepreneurs) have been obliged to submit the statistical questionnaires electronically in terms of amendment of the Act No. 540/2001 Coll. on State Statistics in wording of the Act No. 326/2014 Coll., which contains the new rules for submitting the statistical questionnaires.

### **18.4 Data validation**

Data validation is established in the integrated statistical information system (ISIS) of SO SR. By data collection we distinguish the following checks:

- 1 — formal checks realized automatically in the process of data collection
- 2 — informal checks, which check the complexity and relations among the variables

From the view of significance, we distinguish:

I — informative errors that provide additional information necessary for the process of checkout and data correction. It provides information on eventual overcrossing the limits, on partial non-response, etc.

Z — significant errors that point to the specific errors that need to be corrected or reasoned by the reporting unit. These errors are consulted by the SO SR employees with the reporting unit and subsequently corrected.

### **18.5 Data compilation**

Collected data is summarized according to the particular classifications.



**18.6 Adjustment**

Data is not adjusted. Published data is aggregated data provided by the reporting units.

**19 Comment**