



## METHODOLOGICAL EXPLANATION

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**Maja Kramžer, Tomaž Božič, Klemen Deželak**

# MONTHLY ENERGY STATISTICS

This methodological explanation relates to the data releases:

- Energy statistics, Slovenia, monthly (First Release)



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## 1 PURPOSE

The purpose of publishing the data is monthly presentation of electricity production and consumption, fuel consumption in power plants and trends in solid, liquid and gaseous fuels in Slovenia.

Key statistics are:

- Gross and net electricity production
- Electricity consumption measured by advanced metering system (smart meters)
- Electricity import and export
- Fuel consumption in thermal power plants
- Fuel production, import, export and supply

## 2 LEGAL FRAMEWORK

- [Annual Programme of Statistical Surveys \(LPSR\)](#) (only in Slovene)
- [National Statistics Act](#) (OJ RS, No. 45/95 and 9/01)
- [Regulation \(EC\) No 1099/2008](#) of the European Parliament and of the Council of 22 October 2008 on energy statistics (CELEX number 32008R1099)

## 3 UNIT DESCRIBED BY THE PUBLISHED DATA

Units described by the published data are:

- Electricity production by energy source
- Electricity consumption related to advanced metering system
- Electricity import and export by country
- Fuel consumption in thermal power plants
- Fuel consumed in Slovenia by type, production, import, and stocks at the beginning and the end of the month

## 4 SELECTION OF OBSERVATION UNIT

The following surveys have full coverage:

- E1-EE/M – includes business entities the primary activity of which is electricity production and business entities producing electricity and heat for their own use and/or sale in addition to their primary activity (70 units)
- E4-EEP/M – includes the electricity transmission business entities (1 unit)
- E5-EED/M – includes the electricity distribution business entities (10 units)

- E6-NAF/M – includes business entities with the primary activity of refinery (1 unit)
- E7-NP/M – includes business entities the primary activity of which is the production of petroleum products (1 units)
- E9-PZP/M – includes business entities transporting Natural Gas (1 unit)
- E11-TG/L) – includes with the primary activity of the coal mine (1 unit)
- E-REE/M – includes households and business entities

The following surveys do not have full coverage:

- E8-NPT/M – includes selected business entities trading with petroleum products (18 units). The selection criterion is full coverage of import/export of liquefied petroleum gas, motor gasoline, jet fuel, biodiesel, diesel, and fuel oil by business entities trading with petroleum products.
- E10-TGT/M – includes selected business entities trading with solid fuels (15 units). The selection criterion is full coverage of import/export of selected solid fuels by business entities trading with solid fuels.

## 5 SOURCES AND METHODS OF DATA COLLECTION

Data are collected monthly.

Data are collected with the following surveys:

- E1-EE/M – Electricity and heat production. With this survey the data on production (by energy source), consumption and sale of electricity and heat, data on fuel consumption in thermal power plants and stocks at the end of the month are obtained by questionnaire sent to reporting units by e-mail (Monthly questionnaire on the electricity and heat production).
- E4-EEP/M – Electricity transmission. With this survey, the data on purchase, transmission, import and export of electricity and losses in the transmission grid are obtained by questionnaire sent to reporting units by e-mail (Monthly questionnaire on electricity transmission).
- E5-EED/M - Electricity distribution. With this survey, the data on electricity injected in the grid, transmission and losses of electricity in the distribution network are obtained. All data is from an administrative source.
- E6-NAF/M – Production and supply of crude oil, natural gas, refinery feedstocks, additives and other hydrocarbons. With this survey the data on production, import and export, own use of crude oil, natural gas, gas condensate, additives and other hydrocarbons are obtained by questionnaire sent to reporting units by e-mail (Monthly questionnaire on the production and supply of crude oil, natural gas, refinery feedstocks, additives and other hydrocarbons).
- E7-NP/M – Production of petroleum products. With this survey the data on production, import and export, recycling, own use, reclassification, sale and stocks of petroleum products are obtained by questionnaire sent to reporting units by e-mail (Monthly questionnaire on the petroleum products production).

- E8-NPT/M – Petroleum products trade. With this survey the data on import, export, stocks and the structure of sale and purchase of selected petroleum products on the Slovenian market are obtained by questionnaire sent to reporting units by e-mail (Monthly questionnaire on the petroleum products trade).
- E9-PZP/M – Natural gas transport. With this survey the data on import and export of natural gas together with operating parameters of natural gas transport grid are obtained by questionnaire sent to reporting units by email (Monthly questionnaire on natural gas transport).
- E10-TGT/M – Solid fuels trade. With this survey the data on import, purchase, sale, export, stocks, net calorific value of solid fuels and sulphur content in solid fuels are obtained by questionnaire sent to reporting units by e-mail (Monthly questionnaire on the solid fuels trade).
- E11-TG/M – Coal extraction. With this survey the data on production, sale, stocks, export, net calorific value and sulphur content of lignite are obtained by questionnaire sent to reporting units by e-mail (Monthly questionnaire on the coal extraction).
- E-REE/M – Electricity consumption in production and service activities and in households. With this research, the data on electricity consumption measured with advanced metering system (smart meters) are obtained.

Data on electricity production for some units are obtained from an administrative source whose administrator is Borzen.

Data on electricity distribution and losses on the distribution network are obtained from the administrative source EPOS (reporting system for e-reporting of data from energy providers operating within the Portal Energetika) managed by is the Ministry of Infrastructure – the Energy Directorate.

Data on electricity consumption by advanced metering system are obtained from the administrative source managed by SODO.

## 6 DEFINITIONS

**Main activity producers** are supply undertakings which generate electricity, electricity and heat or heat only as their primary activity. They may be privately or publicly owned.

**Autoproducers** are undertakings which generate electricity and/or heat wholly or partly for their own use as an activity which supports their primary activity. They may be privately or publicly owned.

**Sm<sup>3</sup>** – standard cubic meter is gas volume at standard conditions (at temperature 15<sup>0</sup>C and pressure 1,01325 bar).

**Transformation** includes fuel consumption for electricity and heat production.

**Liquefied petroleum gas (LPG)** are light paraffinic hydrocarbons derived from the refinery processes, crude oil stabilisation and natural gas processing plants. They consist mainly of propane (C<sub>3</sub>H<sub>8</sub>) and butane (C<sub>4</sub>H<sub>10</sub>) or a combination of the two.

**Motor gasoline** consists of a mixture of light hydrocarbons distilling between 35°C and 215°C. It is used as a fuel for land based spark ignition engines. Motor gasoline may include additives, oxygenates and octane enhancers, including lead compounds such as TEL (tetraethyl lead) and TML (tetramethyl lead).

**Kerosene type jet fuel** is a distillate used for aviation turbine power units. It has the same distillation characteristics between 150°C and 300°C (generally not above 250°C) and flash point as kerosene.

**Transport Diesel Oil** is on-road diesel oil for diesel compression ignition (cars, trucks, etc.), usually of low sulphur content.

**Heating and other gasoil** is light heating oil for industrial and commercial uses.

**Heavy Fuel Oil – Low Sulphur** is heavy fuel oil with sulphur content lower than 1%.

**Other oil products** are all products not precisely specified, for example: tar and sulphur.

**Advanced metering system** enables automatic (remote) selection, processing and transmission of measured data.

## 7 EXPLANATIONS

### 7.1 CLASSIFICATIONS

### 7.2 DATA PROCESSING

#### DATA EDITING

Data were edited by using appropriate manual individual corrections.

For more, see the general methodological explanations [Statistical data editing](#).

#### WEIGHTING

Weighting was not performed.

#### SEASONAL ADJUSTMENT

Seasonal adjustment is not applicable.

#### DATA PROCESSING OTHER

Data are processed manually in Excel by preparing tables by specific variables.

### **7.3 INDICES**

Indices are not published.

### **7.4 PRECISION**

The precision is not calculated.

### **7.5 OTHER EXPLANATIONS**

## **8 PUBLISHING**

- SiStat Database: [Energy](#) - Energy production and consumption - Electricity. Absolute data by the item name are published.
- SiStat Database: Energy - Energy production and consumption - Solid, liquid and gaseous fuels. Absolute data by the item name are published.
- First release (Energy, Energy production and consumption): »Energy, Slovenia, monthly«.
- EUROSTAT (Statistical Office of the European Union).
- International Energy Agency (IEA).

## **9 REVISION OF THE DATA**

### **9.1 PUBLISHING OF PRELIMINARY AND FINAL DATA**

Data for the last 12 months are provisional. With each release the data for the last 12 months can be corrected and supplemented with new data.

Publishing of provisional and final data is planned. Due to the needs of users for timely information, provisional data are published that meet the criteria of the quality of official statistical data but do not meet the quality that can be met with complete coverage. Data are revised when recent, more complete and better data can significantly contribute to the quality of data-based decision-making.

### **9.2 FACTORS INFLUENCING COMPARABILITY OVER TIME**

There are no breaks in time series, so all points in time are comparable.

## 10 OTHER METHODOLOGICAL MATERIALS

Methodological materials on SURSs website are available at <https://www.stat.si/statweb/en/Methods/QuestionnairesMethodologicalExplanationsQualityReports>.

- Questionnaires:
  - Monthly questionnaire on the electricity and heat production (E1-EE/M)
  - Monthly questionnaire on electricity transmission (E4-EEP/M)
  - Monthly questionnaire on the production and supply with crude oil, natural gas, refinery feedstocks, additives and other hydrocarbons (E6-NAF/M)
  - Monthly questionnaire on the petroleum products production (E7-NP/M)
  - Monthly questionnaire on the petroleum products trade (E8-NPT/M)
  - Monthly questionnaire on the solid fuels trade (E10-TGT/M)
  - Monthly questionnaire on the coal extraction (E11-TG/M)

Theme: Energy, Subtheme: Energy Production and Consumption

- Quality report for the surveys:
  - Annual and monthly surveys on the electricity and heat production (E1-EE/L, E1-EE/M)
  - Annual and monthly surveys on the petroleum products trade (E8-NPT/L, E8-NPT/M)
  - Monthly survey on the solid fuels trade (E10-TGT/M)

Theme: Energy, SubTheme: Energy production and consumption