



METHODOLOGICAL EXPLANATION

Marko Pavlič

PEFA - PHYSICAL ENERGY FLOW ACCOUNTS

This methodological explanation relates to the data releases:

- Physical energy flow accounts, Slovenia, annually (First Release)



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Content	
1	PURPOSE..... 3
2	LEGAL FRAMEWORK..... 3
3	UNIT DESCRIBED BY THE PUBLISHED DATA..... 3
4	SELECTION OF OBSERVATION UNIT..... 3
5	SOURCES AND METHODS OF DATA COLLECTION..... 3
6	DEFINITIONS..... 4
7	EXPLANATIONS..... 5
8	PUBLISHING..... 6
9	REVISION OF THE DATA..... 6
10	OTHER METHODOLOGICAL MATERIALS..... 7

1 PURPOSE

The purpose of publishing data on energy accounts (PEFA) is to present the data of physical energy flow accounts, flowing from the environment to the economy, within the economy and from the economy back to the environment. Key statistics are produced (supplied) and consumed (used) energy. Those statistics are e.g. produced energy in mining and quarrying, consumed energy in manufacturing, etc.

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 691/2011 of the European Parliament and of the Council on European environmental economic accounts (CELEX: 32011R0691).

3 UNIT DESCRIBED BY THE PUBLISHED DATA

The unit described by the published data is energy produced and consumed in business entities and households, which are part of the energy flow as producers, processors or end-users. Production, processing and consumption (end-use) are observed in relation to the NACE classification activities and households. Data are expressed in terajoules (TJ).

4 SELECTION OF OBSERVATION UNIT

The observation units are business entities and households that are included in the energy flow as producers, processors or final consumers of energy. Energy production, processing and consumption are observed according to the NACE Rev. 2 activities. Households are also taken into account.

The selection of observation units is complete; i.e. all activities (divided by NACE classification) and households included in energy flow are covered, based on the residence principle. This means that data cover all energy flows which occur on the national territory or abroad within activities of Slovenian business units (e.g. tourism, transportation companies).

5 SOURCES AND METHODS OF DATA COLLECTION

Data are collected annually.

Data for are obtained from other energy statistics surveys (5 joint questionnaires IEA/Eurostat/UNECE) which are annually reported to Eurostat. Primary source for Joint Questionnaires are surveys in the field of energy statistics, which include data on:

- electricity and heating;
- natural gas;
- oil;
- renewables and wastes;
- coal.

Data from national accounts (input-output tables, SUT tables – with data on energy products), transport and tourism statistics (necessary for applying the residence principle) are also used. This is data on freight road transport (TR-CES - B/T: Freight road transport, Slovenia, annually), data on economic tourism accounts (Outbound tourism expenditure (expenditure of residents abroad), mio EUR, Slovenia, multiannually and Inbound tourism expenditure (expenditure of foreign tourists and same-day visitors), mio EUR, Slovenia, multiannually). Statistics of assets allocated by households are also used (Average annual allocated assets of households, Slovenia, multiannually).

Data on sold and used fuel by larger transportation businesses and data on fuel sold with "truck cards" by residency of buyer from major companies that sell fuel on gas pumps are collected separately for this survey. For the purpose of proper allocation of road transport energy use by NACE activities, the data from administrative database MRVL (Register of vehicles and documents) is used (data on the number of registered road vehicles, mileage and CO₂ emissions according to NACE Rev. 2 activity of vehicle owner).

6 DEFINITIONS

ENERGY ACCOUNTS are satellite environmental-economic accounts providing additional energy information. They represent a framework of organising energy related statistical information for analyses of the economic role of energy, relations between energy activities and the environment.

EUROSTAT is the Statistical Office of the European Union situated in Luxembourg.

PEFA is an abbreviation for Physical Energy Flow Accounts.

PHYSICAL ENERGY FLOW ACCOUNTS are the first accounts in the system of energy accounts developed internationally. They show the data on energy flows from the environment into the economy, within the economy and back to the environment. For uniform presentation and to facilitate comparability, the units are calculated to TJ.

ENERGY SUPPLY AND USE TABLES enable – with the reorganisation of energy data by energy flows and the presentation of energy value – the link with monetary data of the national accounts system at the next level of presenting

energy accounts as a whole.

ENERGY FLOWS in energy accounts are resource (natural input) flows, product flows and residual flows.

NET DOMESTIC ENERGY USE includes energy consumption of the energy sector, losses in energy distribution and transformation, final energy consumption by end users and statistical differences, while respecting the residence principle.

MRVL is the Registry of vehicles and documents (administrative base of the Ministry of Infrastructure of the Republic of Slovenia).

7 EXPLANATIONS

7.1 CLASSIFICATIONS

Data are published based on NACE Rev. 2 classification. The national classification of economic activities as a version of NACE classification is published on SURSs website (Methods and Classifications – Classifications – Economic Classifications):

<http://www.stat.si/StatWeb/en/mainnavigation/methods-and-classifications/classifications>

7.2 DATA PROCESSING

DATA EDITING

Data were edited by using appropriate systematic and individual corrections.

Data are edited and calculated within special software tools “PEFA Builder” and “NACE Breakdown” (the latter is used for the purpose of NACE classification allocation) prepared by Eurostat. Data on (non-)residents fuel consumption are calculated separately; these data are then used for the residence principle adjustment.

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

Other methods of data processing are not being used.

7.3 INDICES

Indices are not published.

7.4 PRECISION

The precision is not calculated.

7.5 OTHER EXPLANATIONS

Data that are statistically protected to respect the confidentiality of reporting units are replaced with the letter »z«.

8 PUBLISHING

- SiStat Database: [Environment - Environmental accounts](#); absolute data, by NACE Rev. 2 Classification, 1 digit level.
- First Release (environment, environmental accounts): »Physical energy flow accounts«.
- [Statobook](#)
- EUROSTAT (Statistical Office of the European Union)

9 REVISION OF THE DATA

9.1 PUBLISHING OF PRELIMINARY AND FINAL DATA

The PEFA survey data are never final. The revision is necessary due to possible changes (revisions) of data in data sources, especially in the joint questionnaires for energy statistics and in the supply-use tables (SUT).

Data revision is planned and is being performed annually for the whole time series.

9.2 FACTORS INFLUENCING COMPARABILITY OVER TIME

Data are allocated on the basis of the NACE Rev. 2 classification. Data are available from 2008 onwards (with the publication in 2020 the data time series

was extended for the 2008-2011 period). There are no breaks in the time series, all data are fully comparable.

10 OTHER METHODOLOGICAL MATERIALS

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

- Questionnaire:
 - SURS does not collect data for this survey by using a questionnaire.
- Quality report for the survey:
 - [PEFA - energy accounts \(PEFA\)](#)

Theme: Environment, SubTheme: Environmental accounts

- Methodological explanations:
 - Input-output tables, supply and use tables

theme: GDP and National Accounts, sub-theme: Supply and use tables, input-output tables

- - Road freight transport

theme: Transport, sub-theme: Road transport

- - Registered road vehicles

theme: Transport, sub-theme: Road transport

- - Energy production and consumption

theme: Transport, sub-theme: Road transport

- - Economic accounts for tourism

theme: Tourism, sub-theme: Economic aspects of tourism

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Methodological explanation

- Household energy consumption

theme: Environment, sub-theme: /

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