ANNUAL ENERGY BALANCE OF HEAT ENERGY

LEGAL BASIS

The survey is regulated by the Law on Official Statistics („Official Gazette of RS”, No 104/2009) and Programme of Official Statistics over the period 2016 – 2020 („Official Gazette of RS”, No 55/15).

<http://www.stat.gov.rs/media/2322/zakon_o_statisticie.pdf>

<http://www.stat.gov.rs/media/2338/program-2016-2020-konacni-tekst-engleska-verzija.doc>

METHODOLOGICAL BASIS

Objective and scope of the survey

Production of the annual energy balance of heat energy.

Survey coverage

**Questionnaire EN-4.2** collects data on: consumption of fuels for electricity and heat production, fuels stock, their average calorific value; heat production; own consumption; heat delivered to distributors or other heat producers; heat received from other heat producers; losses; heat delivered to final consumers by consumer groups.

**Questionnaire EN-4.6** collects data on: consumption of fuels for heat production, fuels stock, their average calorific value; heat production; own consumption; heat delivered to distributors or other heat producers; heat received from other heat producers; losses; heat delivered to final consumers by consumer groups.

**Questionnaire EN-4.7** collects data on: heat supplied from the producers of heat; losses; heat delivered to final consumers by consumer groups.

**Questionnaire EN-4.15** collects data on heat consumption in industry.

Reporting units and statistical units *(coverage)*

Reporting units for energy balance of heat energy are enterprises (including Public enterprises). Observational units are producers of heat energy,distributers and kind of activitiy (KAU) of industrial and non-industrial enterpprises which have production of heat for sold.

 **Method, period and sources for data collection**

Data are collected annually by means of reporting method.

Data collection sources are:

Annual questionnaires:

Annual energy balance of production and consumption of thermoelectric energy – questionnaire intended for reporting units dealing with the production of thermoelectric energy and heat (EN-4.2),

Annual energy balance of production and consumption of heat energy – questionnaire intended for reporting units dealing with the production and consumption of heat energy (EN-4.6),

Annual energy balance of production and consumption of heat energy (EN-4.7)
– questionnaire intended for reporting units dealing with the distribution of heat energy.

Regular statistical surveys of the Unit of Construction Statistics and Division of External Trade Statistics and Transport (data of the Customs Administration of the Republic of Serbia).

(The questionnaires are available on the website of the Statistical Office of the Republic of Serbia <http://www.stat.gov.rs/sr-Cyrl/istrazivanja/methodology-and-documents/?a=04&s=0>)

Obligation to protect personal data

The obligation to protect personal data is laid down in Article 3 of the provision on the protection of data providers, articles 44, 45, 46, 47, 48 and 49 of the provision of the Law on Official Statistics (“Official Gazette of RS“, No 104/2009).

List and definitions of main concepts - indicators

***Primary production*** is a form of energy that has not been converted or transformed (coal, oil, natural gas, biomass, hydro power energy, geothermal energy, firewood, wind energy and solar energy).

***Imports and exports***cover quantities that crossed the national border.

***Stock changes*** is difference between stocks at the beginning of the year (initial stocks) and those at the end of the year (final stocks).

***Marine bunkers*** cover the quantities delivered for international navigation purposes.

***Gross inland consumption*** is calculated as follows:

Primary production

+ Import

– Export

+Stock changes

– Marine bunkers

***Statistical difference*** is a category that includes the sum of unexplained statistical differences between production and consumption for certain energents.

***Transformation input*** is the consumption of fuels as raw materials for energy production in thermal power plants, CHP, autoproducers, district heating plants, refineries, blast furnace plants and coal transformation.

***Transformation output*** covers the production of transformed energy forms (thermoelectricity, heat, petroleum products, blast furnace gas, oxygen steel furnace gas, wood briquettes, wood pellets, charcoal).

***Exchange and transfers, returns*** include interproduct transferred (distillates), products transferred (hydroenergy) and recycled products (naphta, fuel oil and lubricants.

 *Product Transferred* – refinery products reclassified as feedstock for further processing in the refinery, without delivery to final consumers.

*Interproduct Transfers* – quantities reclassified because their specification has changed or because they are blended into another product.

*Backflow from petrochemical industry* – products or semi-finished products returned to the refinery from the process of petrochemical industry.

***Own consumption in energy sector*** covers the energy used for energy sector running.

***Losses*** cover losses occurred:

for electricity: during transmission and distribution;

for heat: during transmission and distribution;

for solid fuels: during transport;

for liquid fuels: during transport and distribution;

for natural gas: during transport and distribution;

for geothermal energy: within the distributive system, and for

for wood fuel: during transport.

***Energy available for final consumption*** is the energy intended for final consumers.

***Final consumption*** covers the consumption of energy available for final consumption for energy and non-energy purposes.

***Final consumption for non-energy purposes*** covers final energy consumption as raw material for production of non-energy products in technological process, while consumption in chemical industry is separated from total consumption.

***Final consumption for energy purposes*** covers final consumption of available energy for energy purposes in:

***industry***,

***construction***,

***transport***,

***households*** (all households, including “households with employed persons“),

***agriculture,*** and

***other consumers*** (all other consumers, e.g. education, health, public administration, etc.).

Particularities of the energy balance of heat energy:

Most of producers of heat energy, which do not have devices to measure the generated and transmitted heat energy, have indicated estimates for the requested data in our questionnaires. Autoproducers are meant to be industrial firms which do not produce heat only for their own consumption, but they also give a part of heat to others.

Level of data representativeness
(*territorial level and level of the Classification of Activities, 2010 (CA))*

Data are representative for the territory of the Republic of Serbia.Since 1999 the Statistical Office of the Republic of Serbia has no available data for AP Kosovo and Metohia, therefore they are not included in the data for the Republic of Serbia (total).

Harmonization with international recommendations, standards and practice

The annual energy balance for heat energy fully complies with the recommendations of EUROSTAT and the International Energy Agency.

DESCRIPTION OF THE SURVEY MANAGEMENT

Bodies in charge of the survey management *(responsible official statistics producer)*

Statistical Office of the Republic of Serbia: Unit of Energy Statistics in Belgrade, Division of Statistics in the Sector of Statistics in AP Vojvodina and regional divisions in Subotica, Zrenjanin, Novi Sad, Sremska Mitrovica, Pancevo, Smederevo, Sabac, Valjevo, Kraljevo, Kragujevac, Zajecar, Nis, Leskovac and Uzice.

Belgrade City administration, Secretariat for administration, Statistics sector

Obligation to provide data

The obligation to provide data is laid down in Article 26, and penalty provisions in case of refusal or incorrect or incomplete data provided in Article 52 of the Law on Official Statistics („Official Gazette of RS, No 104/2009).

Timetable of the main phases of the survey (*including data publication*)

The deadline within which the reporting unit is requested to send the filled out questionnaire to the relevant statistical body is 15 March.

The deadline within which the Statistical Office of the Republic of Serbia shall publish the data for the previous year is defined in the Regulation on defining the Plan of official statistics.

SURVEY TOOLS (refer to data collection sources)

The list of nomenclatures and classifications use for the survey
*(along with the information where they can be found)*

Classification of Activities CA (2010) regulated by the Regulation of the Government of the Republic of Serbia of 29 July 2010 (“Official Gazette of RS”, No 54/10) according to the Law on the Classification of Activities (“Official Gazette of RS“, No 104/09). Available also on the web site of the Statistical Office of the Republic of Serbia <http://www.stat.gov.rs/en-us/o-nama/dokumenti/>

Commission Regulation (EC) No1099/2008 and all its Amendments (available in the Energy Statistics Unit of the Statistical Office of the Republic of Serbia)

Energy Statistics Manual, publication of the International Energy Agency (available in the Energy Statistics Unit of the Statistical Office of the Republic of Serbia).

**List of publications in which survey methodology and results are published**

 Bulletin “Energy Balances“

(The publication is available on the web site of the Statistical Office of the Republic of Serbia <http://www.stat.gov.rs/en-us/oblasti/energetika/>

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