dANNUAL ENERGY BALANCE OF COAL

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

The production of annual energy balance of coal.

Survey coverage

**Questionnaire EN-4.8** collects data on: primary coal production, transformation of coal, calorific value, stocks, purchase from the other in the country, import, export, consumption of coal for coal transformation, own consumption, coal delivered to trade companies and final consumers by consumer groups.

**Questionnaire EN-4.8.1** collects data on: production of blast-furnace gas; blast-furnace gas consumed: in the manufacture of iron, for heat production, for electricity production; losses; delivered to others; calorific value of blast-furnace gas; quantity of the coke used in the blast furnace plant and calorific value of coke.

**Questionnaire EN-4.9** collects data on: stocks, purchase from the other in the country, import, export, own consumption, losses, coal delivered to trade companies and final consumers by consumer groups.

 **Questionnaire EN-4.15** (for industrial enterprisers) collects data on coal consumption for energy, non-energy use and stocks.

Reporting units and statistical units (*coverage*)

Reporting units for energy balance of coal are enterprises (including Public enterprises). Observational units are enterprices dealing with the production of solid, fossil fuels, blast furnaces and converter gas; companies dealing with trade of coal.

Method, period and sources for data collection

Data are collected annually by means of reporting method.

The sources for data collection are:

Annual questionnaires

Annual energy balance of mining and consumption of coal – for reporting units dealing with: mining of hard coal, brown coal, lignite and peat (EN-4.8),

Annual energy balance of mining and consumption of coal – questionnaire for reporting units dealing with the production of blast furnaces (EN-4.8.1),

Annual energy balance of mining and consumption of coal – for reporting units dealing with the trade of coal and coal-based products (EN-4.9) and

Annual energy balance for reporting units in industry – stocks and consumption of energy and fuels in industry (EN-4.15E).

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

(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 (dydroenergy) 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 fuelwood: 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 separate 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.).

Peculiarities of the energy balance:

In the energy balance, the items *Final consumption for energy purposes* are estimates based on data obtained from statistical surveys of the statistics of energy, external trade, industry, construction, transport, agriculture and forestry.

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 of coal fully complies with the recommendations of EUROSTAT and 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 sources for data collection)

List of nomenclatures and classifications used 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) No 1099/2008 and all its Amendments (available in the Unit of Energy Statistics of the Statistical Office of the Republic of Serbia);

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

List of publications in which survey methodology and results are published
(*hard copies and/or within Internet presentations*)

 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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