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QUALITY REPORT 2018

Consumption of building material, electricity and gas

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1. Introduction – Basic information about the survey

1.1 Purpose, goal and subject of the survey

The main objective of this study is to provide information about changes in the level and structure and the price of building materials, primarily in companies from the field of construction, and then in the companies where construction is not a core business. The survey results are used for planning purposes, to analyze the development of construction technology, construction cost index calculation by the method of structural value, controlling the index of physical volume of construction production, the production of input-output tables and create the energy balance.

1.2 Legal basis

The Law on Official Statistics and Official Statistical System (Official Gazette of Montenegro No 18/12) defines provisions for collection, processing, and dissemination of data. The Law provides to the Statistical Office clear and wide legal powers to collect and access the data necessary for the implementation of Programme and Annual Plan. The Law gives a priority to the use of administrative data and right of access to individual data that are a result of survey of other official statistical producers. As an annex to legal provisions, Statistical Office has signed several memoranda on cooperation with administrative data providers.

1.3 Statistical units

Observation units are enterprises in the field of civil engineering and construction company which is not the main activity and for this purpose use the material for construction of facilities for maintenance, repair and operation of machinery and rolling stock, and firewood for stationery and other supplies.

1.4 Coverage and scope of survey

1.4.1 Sectors

Reporting units of survey on construction activities are enterprises with 5 and more employees which are registered in sector F - construction (area 41, 42, 43) according to the classification NACE Rev.2 and enterprises (KAU) which are not registered in sector F, but whose local units perform the construction works and for this purpose the material: 1. For the construction of buildings; 2. For maintenance and repair of mechanical and vehicle fleet; 3. The operation of machinery and rolling stock, and firewood; 4. Office and other auxiliary materials.

1.4.2 Statistical population

The 2018 sample comprised 104 enterprises with primary and secondary activity in the construction.

1.5 Referent geographical area

Montenegro

1.6 Concepts and definitions

The subject of survey are: the amount of embedded construction material and fuel, the value of the built construction material and fuel, the quantity of stocks at the end of the reporting year, the average price of used material. The amount of embedded materials and stocks are included in the unit of measure that is most frequently applied in practice.

1.7 Classifications

NACE Rev. 2

1.8 Frequency of data collection

Data are collected annually.

1.9 Frequency of data dissemination

This survey is annually disseminated.

1.10 Methodology

A statement of methodology is available on website:

<http://monstat.org/userfiles/file/gradjevinarstvo/medodologije/CONSUMPTION%20OF%20BUOLDING%20MATERIAL.pdf>

1.11 Base period

Reference year.

1.12 Unit of measure

Values are expressed in thousands of Euro

1.13 Source of data

The reporting units are enterprises which are registered in sector F according to NACE Rev.2 classification and enterprises whose construction is a secondary activity. The list of companies is taken from the Business Register.

1.14 Method of collection data

Data are collected through questionnaires (by post, email or fax)

2. Relevance – Data users

2.1 User needs

International users:

- Eurostat,
- World Bank,
- UN organizations,
- International Monetary Fund

National users:

- Ministries and other public administration bodies,
- Local government, and
- Other local government bodies.
- Central bank,
- Non-governmental organizations,
- Students,
- Researchers,
- Media.

2.2 User satisfaction

The Statistical Office has adopted the Quality Management Strategy, the Guidebook to the Implementation of the Quality Management Strategy, as well as the Plan for the Implementation of the Quality Policy. In order to measure the degree to which fulfills obligations towards users and within the new quality policy, the Statistical Office conducted User satisfaction survey. Data collection was carried out through a web survey, in the period from 1 September to 20 October, 2017. The results of the survey are available on the Statistical Office

website,

link:

<http://www.monstat.org/userfiles/file/KVALITET/Izvjestaj%20o%20zadovoljstvu%20korisnika%20eng.pdf>

3. Accuracy and reliability

3.1 Accuracy – Overall remark

The results of survey on consumption of construction material and fuel are based on a sample of reporting units and are subject to the usual types of errors associated with sampling techniques, as well as non-sampling errors, measurement errors, processing errors and non-response.

3.2 Sampling error

Survey on consumption of construction material and fuel is done on a sample basis. Included are all enterprises and KAU with 5 and more employees who are registered in sector F according to the classification NACE Rev.2. The reporting units from class 1 are selected through random sampling method so it is logical that there is an error during the random sampling. Reporting units from the class 2 and 3 (more than 50 employees) is full coverage.

Indicators of sampling error (A1)

Sampling error is regularly calculated and on average it was 0,001% in 2016. Coefficient of variance is 0.01.

3.3 Non-sampling error

Non-sampling errors are tied to other errors that are not related to the sample. Non-sampling errors include: coverage errors, measurement errors, processing errors, and non-response errors.

3.3.1 Coverage error

Coverage error is the divergence between the frame population and the target population. The coverage errors include: over – coverage and under – coverage.

Indicators of coverage error (A2)

Over - coverage is appearing when a company which is registered in sector F deliver information to deal with the some other activity (not construction), which means it should not have been found in the frame of sample.

3.3.2 Error of measurement

Measurement errors are errors that occur during data collection and cause recorded values of variables to be different from the true ones.

3.3.3 Non response error

Non-response errors occur when the survey fails to get response to one, or possibly to all questions of the survey. Non - response errors include: unit non response and item non response.

Unresponsive unit rate (A3)

The unit non response rate is calculated as the ratio of the number of units which did not responded to the total number of eligible units.

Non response rate

The item non response rate is calculated as the ratio of the eligible units which have not responded to a particular item and the in-scope units that are required to respond to that particular item. Average item non response rate was about 7%

3.3.4 Error processing the data

The collected data goes through a series of processes before the final estimation: encryption, input, editing, imputation, weighting, tabulation, etc. Errors arising in these phases are called processing errors.

Imputation rate

Not available

3.4 Seasonal adjustment

Not relevant.

3.5 Data revision

3.5.1 Data revision policy

Statistical Office has adopted the revision policy and it is available on the website <http://www.monstat.org/userfiles/file/o%20nama/2017/Revision%20policy.pdf>

3.5.2 Data revision practice

Survey of consumption of building material, electricity and gas uses regular revisions. Large and unplanned revisions are only used in the specific cases defined by the revision policy.

3.5.3 Data revision - average size (A6)

Not relevant.

4. Timeliness and punctuality

4.1 Timeliness

The data are published 9 months after the end of the reference period.

Time lag of the first results

The number of days (or weeks or months) from the last day of the reference period to the day of publication of first results: $T1 = d_{\text{first}} - d_{\text{ref}}$, $T1 = 35$ days, d_{first} - release date of first results; d_{ref} - last day (date) of the reference period of the statistics. Deadlines for balance of coal data during 2018 are published according to the Statistical Release Calendar.

Time lag of the final results

The number of days (or weeks or months) from the last day of the reference period to the day of publication of complete and final results. Data for balance of electricity are published 9 months after the end of the reference period in accordance with release calendar.

4.2 Punctuality

Deadlines for publishing have been complied in accordance with the Statistical Release Calendar.

5. Availability and clarity

5.1 Statistical Release Calendar

The Law on Official Statistics and Official Statistical System (Official Gazette of Montenegro No 18/12) stipulates that official statistical producers prepare, update, and publish Statistical Release Calendar. It is published on the website of Statistical Office not later than 20 December for the next year, for all official statistical producers that includes date of releasing statistical data. Any change in date of releasing in the Calendar is published in advance in accordance with the Procedure on Unplanned Revisions.

5.2 Access the data Release Calendar

<http://monstat.org/userfiles/file/o%20nama/2018/Kalendar%20objavlivanja%20statistickih%20podataka%20Zavoda%20za%20statistiku%20-%20ENGg.pdf>

5.3 Releases

Data are available on the website and press release: <http://monstat.org/eng/page.php?id=510&pageid=35>

5.4 Publication

Statistical Office publishes the following regular publications:

1. Monthly Statistical Review,
2. Statistical Yearbook,
3. Montenegro in Numbers,
4. Annual Statistics of Transport, Storage and Connections,
5. Number and Structure of Business Entities.

In addition to the above regular ones, Statistical Office publishes also additionally publications. Some of the most important additional publications are as it follows:

1. Women and Men in Montenegro,
2. Children in Montenegro,
3. The most often used statistical data, .

All publication published by Statistixal Office are available at the following link:
<http://monstat.org/eng/publikacije.php>

5.5 On-line database

<http://195.66.179.231/PXWebEng/pxweb/en/Short-term%20indicators/?rxid=7fa17ab3-0d2e-46f4-ac7f-dbe053d3dfc9>

5.6 Access to micro data

The Law on Official Statistics and Official Statistical System (Official Gazette of Montenegro No 18/12) regulates rules under which external users can obtain an access to individual data for needs of research. Article 58 defines types of scientific and research organizations that can obtain such data. Providing individual data without identifier is possible only upon a written request of scientific and research institutions, with purpose of performing scientific and research activities as well as international statistical organizations and statistical producers from other countries. Research entity signs the agreement with Statistical Office,

and it signs the statement on respecting the confidentiality principle. Official statistical producers keeps a separate records on users and purpose of using the statistical data given to these users

5.7 Metadata occupancy

The ratio of the number of metadata elements provided to the total number of metadata elements applicable. For these survey, the metadata fill rate is 100%.

6. Comparability

6.1 Spatial comparability

Not relevant

6.2 Time comparability

Not relevant

Time comparability indicator

Not relevant