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Reference Metadata in ESMS 2.0 structure

# Statistical survey for spent building materials and energy

## BS\_GRAD.13\_A\_EN\_2021\_1

### Reference Metadata in ESMS 2.0 structure

<b>1</b>	<b>Contact</b>
<b>1.1</b>	<b>Contact organisation</b>
State Statistical Office	
<b>1.2</b>	<b>Contact organisation unit</b>
Department for industry,costruction and bussines tendencies	
<b>1.3</b>	<b>Contact name</b>
Dragan Nedelchin	
<b>1.4</b>	<b>Contact person function</b>
Junior Associate	
<b>1.5</b>	<b>Contact mail address</b>
Dame Gruev 4, 1000 Skopje, Republic of North Macedonia	
<b>1.6</b>	<b>Contact email address</b>
dragan.nedelcin@stat.gov.mk	
<b>1.7</b>	<b>Contact phone number</b>
3295-659	
<b>1.8</b>	<b>Contact fax number</b>
<b>2</b>	<b>Metadata update</b>
<b>2.1</b>	<b>Metadata last certified</b>
18/10/2022	
<b>2.2</b>	<b>Metadata last posted</b>
18/10/2022	
<b>2.3</b>	<b>Metadata last update</b>
18/10/2022	

State Statistical Office

Reference Metadata in ESMS 2.0 structure

<b>3</b>	<b>Statistical presentation</b>
<b>3.1</b>	<b>Data description</b>
	Value and quantity of spent building and power materials.
<b>3.2</b>	<b>Classification system</b>
	National Classification of Activities - NKD Rev.2; National nomenclature of industrial products - NNIP;
<b>3.3</b>	<b>Sector coverage</b>
	Section F - Construction, according to the NKD Rev.2.
<b>3.4</b>	<b>Statistical concepts and definitions</b>
	Spent building and power materials include the building material that is built in the construction by the business entities who were performing the activities, namely the whole spent power material and other material. Data for the types of material are according to the material book-keeping evidence.
<b>3.5</b>	<b>Statistical unit</b>
	The statistical unit are the business entities that, according to their economic activities, belong in the sector F (Construction) according in the NACE Rev. 2 Classification, and also other business entities that are registered in other sector but they have completed some construction works. Observational unit is every spent building and power material by the business entities, defined in GRAD.13 .
<b>3.6</b>	<b>Statistical population</b>
	The statistical unit are all the spent building and power material by the business entities, defined in GRAD.13 .
<b>3.7</b>	<b>Reference area</b>
	NUTS 1 and 2 (Republic of North Macedonia)
<b>3.8</b>	<b>Time coverage</b>
	From 1991.
<b>3.9</b>	<b>Base period</b>
	Not applicable.
<b>4</b>	<b>Unit of measure</b>
	Number, m2, kg, m3, tonnes, MWh, thousand denars, indices.
<b>5</b>	<b>Reference period</b>
	Year.
<b>6</b>	<b>Institutional mandate</b>

State Statistical Office

<b>6.1</b>	<b>Legal acts and other agreements</b>
National: Law on State Statistics ("Official Gazette" no. 54/97, 21/07, 51/11, 104/13, 42/14, 192/15 27/16, 83/18, 220/18 and 31/20) <a href="http://www.stat.gov.mk/ZakonZaStatistika_en.aspx">http://www.stat.gov.mk/ZakonZaStatistika_en.aspx</a> and the Programme of Statistical Surveys 2018-2022 ( " Official Gazette " No. 22/2018 , 224/18,18/20 and 300/20). <a href="http://www.stat.gov.mk/ZaNas_en.aspx?id=8">http://www.stat.gov.mk/ZaNas_en.aspx?id=8</a>	
<b>6.2</b>	<b>Data sharing</b>
Not applicable.	
<b>7</b>	<b>Confidentiality</b>
<b>7.1</b>	<b>Confidentiality - policy</b>
Individual data are protected by the Law on State Statistics <a href="http://www.stat.gov.mk/ZakonZaStatistika_en.aspx">http://www.stat.gov.mk/ZakonZaStatistika_en.aspx</a> . Data collected with statistical surveys from the reporting units or indirectly from administrative or other sources are confidential data and are used only for statistical purposes. Results from the statistical processing may also generate information considered as confidential, for example: anonymised individual data, tables with low level of aggregation, as well as unreleased data. The Policy on Statistical Confidentiality <a href="http://www.stat.gov.mk/ZaNas_en.aspx?id=32">http://www.stat.gov.mk/ZaNas_en.aspx?id=32</a> contains the basic principles used in the SSO.	
<b>7.2</b>	<b>Confidentiality - data treatment</b>
All individual or personal data, in each phase of statistical processing, are treated as confidential data and may be used only for statistical purposes. When releasing data from this survey at an aggregated level, there is no need for additional data treatment for the purpose of ensuring confidentiality.	
<b>8</b>	<b>Release policy</b>
<b>8.1</b>	<b>Release calendar</b>
Data are released in accordance with the Release Calendar, which is published on the web site of the State Statistical Office. The Release Calendar is prepared annually before the beginning of each year and is updated quarterly.	
<b>8.2</b>	<b>Release calendar access</b>
Release calendar : <a href="http://www.stat.gov.mk/Kalendar_nov_en.aspx">http://www.stat.gov.mk/Kalendar_nov_en.aspx</a>	
<b>8.3</b>	<b>User access</b>
In accordance with the dissemination policy, all users have equal access to statistical data at the same time. Data are released on the web site at the same time for all users, which are informed with the Release Calendar, and no user has privileged access.	
<b>9</b>	<b>Frequency of dissemination</b>
Yearly	

Reference Metadata in ESMS 2.0 structure

<b>10</b>	<b>Accessibility and clarity</b>
<b>10.1</b>	<b>News release</b>
<p>"Yearly release ""Spent building materials and energy"". Number of page views is 51.  <a href="http://www.stat.gov.mk/PrikaziSoopstenie_en.aspx?rbtxt=58">http://www.stat.gov.mk/PrikaziSoopstenie_en.aspx?rbtxt=58</a></p>	
<b>10.2</b>	<b>Publications</b>
<p>The last publication:" <a href="http://www.stat.gov.mk/PrikaziPoslednaPublikacija_en.aspx?id=12">Construction in the Republic of Macedonia</a> ".  <a href="http://www.stat.gov.mk/PrikaziPoslednaPublikacija_en.aspx?id=12">http://www.stat.gov.mk/PrikaziPoslednaPublikacija_en.aspx?id=12</a></p>	
<b>10.3</b>	<b>On-line database</b>
<p>MAKStat database - Construction</p> <p>Number of page views: 275.</p> <p><a href="http://makstat.stat.gov.mk/PXWeb/pxweb/en/MakStat/?rxid=46ee0f64-2992-4b45-a2d9-cb4e5f7ec5ef">http://makstat.stat.gov.mk/PXWeb/pxweb/en/MakStat/?rxid=46ee0f64-2992-4b45-a2d9-cb4e5f7ec5ef</a></p>	
<b>10.4</b>	<b>Micro-data access</b>
<p>According to the Law on State Statistics <a href="http://www.stat.gov.mk/ZakonZaStatistika_en.aspx">http://www.stat.gov.mk/ZakonZaStatistika_en.aspx</a> (Article 41) and the Policy on Access to Anonymised Microdata for scientific purposes <a href="http://www.stat.gov.mk/ZaNas_en.aspx?id=22%20">http://www.stat.gov.mk/ZaNas_en.aspx?id=22%20</a> data collected for the purpose of official statistics may be used for scientific purposes if there is no risk of direct or indirect identification, i.e. disclosure of data individuality. Access to microdata is possible only in the safe room at the SSO, based on a submitted and approved request and a signed agreement</p>	
<b>10.5</b>	<b>Other</b>
<b>10.6</b>	<b>Documentation on methodology</b>
<p>Methodological explanations are released on the SSO web site.  <a href="http://www.stat.gov.mk/MetodoloskiObjasSoop_en.aspx?id=58&amp;rbrObl=20">http://www.stat.gov.mk/MetodoloskiObjasSoop_en.aspx?id=58&amp;rbrObl=20</a></p>	
<b>10.7</b>	<b>Quality documentation</b>
<p>Metadata views &lt;15.</p>	
<b>11</b>	<b>Quality management</b>
<b>11.1</b>	<b>Quality assurance</b>

The commitment of the SSO to ensuring quality of products and services is described in the Law on State Statistics, the Strategy of the State Statistical Office ([http://www.stat.gov.mk/ZaNas\\_en.aspx?id=6](http://www.stat.gov.mk/ZaNas_en.aspx?id=6)) and the Quality Policy of the State Statistical Office ([http://www.stat.gov.mk/ZaNas\\_en.aspx?id=24](http://www.stat.gov.mk/ZaNas_en.aspx?id=24)), as well as in the continuous efforts for harmonisation with the European Statistics Code of Practice [http://www.stat.gov.mk/ZaNas\\_en.aspx?id=2](http://www.stat.gov.mk/ZaNas_en.aspx?id=2). The main aspects and procedures for quality management in the phases and sub-phases of the Statistical Business Process Model, as well as the good practices for ensuring quality are documented in the internal document called "Guide for ensuring quality of statistical processes". Input and output metadata, as well as relevant quality indicators for certain sub-processes are described in the document "Guide for survey managers".

## 11.2 Quality assessment

## 12 Relevance

### 12.1 User needs

Data are used for policy creation, for analyses in context of development of building technologies, for calculation of construction costs indices according to the method of structural values, control of the index of physical amount of the construction production, for calculation of input-output tables and for making energy balances. Also, data are used in another statistical surveys as an input for calculation of weighting coefficients (index of spent building materials).

### 12.2 User satisfaction

The State Statistical Office conducts the User Satisfaction Survey [http://www.stat.gov.mk/ZaNas\\_en.aspx?id=33](http://www.stat.gov.mk/ZaNas_en.aspx?id=33) at the domain level. This Survey is conducted at 2009, 2012, 2015 and the last one was in 2017.

### 12.3 Completeness

## 13 Accuracy and reliability

### 13.1 Overall accuracy

Data accuracy is ensured by working on decreasing sampling and/or non-sampling errors, as well as with additional data comparisons and analysis before dissemination.

### 13.2 Sampling error

The survey is not conducted with random sample and there is no calculation of sampling errors.

### 13.3 Non-sampling error

Measurement errors: Data respondents are informed for the survey by sending an informational letter. Collected data are controlled in the central statistical office. Data editing errors: Data entering is done with manually data entering in appropriate application for which activity are engaged data entry staff. While data entering implemented are rules for automatic controls, and also additional control after finishing of data entering. If there is any higher data inconsistency the reporting units are contacted, and for some items an imputation is made by sequential hot deck method (automatic data imputation) or method of expert imputation (manually data imputation). Non - response errors: The unit non-response rate is 11.2%.

<b>14</b>	<b>Timeliness and punctuality</b>
<b>14.1</b>	<b>Timeliness</b>
T + 180.	
<b>14.2</b>	<b>Punctuality</b>
Data are disseminated within the established deadlines in accordance with the Release Calendar.	
<b>15</b>	<b>Coherence and comparability</b>
<b>15.1</b>	<b>Comparability - geographical</b>
Data are released at national level. The comparability is ensured on international level.	
<b>15.2</b>	<b>Comparability - over time</b>
Time series from 1991 onwards and there is no break-up in the time series. The number of reference periods in the time series is 31.	
<b>15.3</b>	<b>Coherence - cross domain</b>
Data are coherent between various parts of construction statistics. Coherence with other themes is partly ensured.	
<b>15.4</b>	<b>Coherence - internal</b>
Internal coherence of data is ensured.	
<b>16</b>	<b>Cost and burden</b>
In the questionnaires we submit to the reporting units we have included the question of how long it takes to complete the questionnaire in order to reduce the burden on the reporting unit.	
<b>17</b>	<b>Data revision</b>
<b>17.1</b>	<b>Data revision - policy</b>
In accordance with the Statistical Data Revision Policy. <a href="http://www.stat.gov.mk/ZaNas_en.aspx?id=25">http://www.stat.gov.mk/ZaNas_en.aspx?id=25</a>	
<b>17.2</b>	<b>Data revision - practice</b>

Not applicable.	
<b>18</b>	<b>Statistical processing</b>
<b>18.1</b>	<b>Source data</b>
<p>"This statistical survey is a sample survey. The sample is taken from the monthly survey ""Monthly report on the value of completed and contracted construction works, total number of employees and effective worked hours"" (GRAD 21) and included are all the business entities that have performed construction activity in the reference year. The sample is revised every year. The sample for 2021 comprises of 138 business entities."</p>	
<b>18.2</b>	<b>Frequency of data collection</b>
Yearly.	
<b>18.3</b>	<b>Data collection</b>
<p>"Data collection from the business entities is done with method of self-fulfilling the ""Annual report on spent building and power material"" (GRAD.13). The business entities are fulfilling the paper questionnaire, and through the Regional statistical offices they deliver it to the State Statistical Office latest at T + 120."</p>	
<b>18.4</b>	<b>Data validation</b>
<p>Data are controlled according to the defined rules for logical controls. Data validation is done before and after data entering. For any deviation, the respondents of the survey units are contacted. Data validation is also done on the output data before their publishing.</p>	
<b>18.5</b>	<b>Data compilation</b>
<p>Editing: Data received from the business entities, after the control and if needed some corrections in consultation with the respondent units, are entered on electronic medium via application with implemented on-line data controls.</p> <p>Imputation: Expert imputation is performed.</p> <p>Weights: No data weighting.</p>	
<b>18.6</b>	<b>Adjustment</b>
There is no seasonal adjustment performed.	
<b>19</b>	<b>Comment</b>
<b>A.1</b>	<b>Annexes</b>