

# Statistical survey on business entities operating with geothermal water/energy (annual)

E\_ENE.58\_A\_EN\_2024\_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 environmental statistics, energy and transport	
<b>1.3</b>	<b>Contact name</b>
Stojna Maneva Gjurgjica Miloshevaska	
<b>1.4</b>	<b>Contact person function</b>
advisor	
<b>1.5</b>	<b>Contact mail address</b>
Dame Gruev 4, 1000 Skopje, Republic of Macedonia	
<b>1.6</b>	<b>Contact email address</b>
<a href="mailto:stojna.maneva@stat.gov.mk">stojna.maneva@stat.gov.mk</a> <a href="mailto:gjurgjica.milosevska@stat.gov.mk">gjurgjica.milosevska@stat.gov.mk</a>	
<b>1.7</b>	<b>Contact phone number</b>
00389 2 3295 637 00389 2 3295 737	
<b>1.8</b>	<b>Contact fax number</b>

00389 2 3111 336	
<b>2</b>	<b>Metadata update</b>
<b>2.1</b>	<b>Metadata last certified</b>
27/05/2025	
<b>2.2</b>	<b>Metadata last posted</b>
27/05/2025	
<b>2.3</b>	<b>Metadata last update</b>
27/05/2025	
<b>3</b>	<b>Statistical presentation</b>
<b>3.1</b>	<b>Data description</b>
Data on used geothermal heat/ water, own consumption, and losses.	
<b>3.2</b>	<b>Classification system</b>
National Classification of Activities - NKD.Rev.2; List of energy commodities and types of energy.	
<b>3.3</b>	<b>Sector coverage</b>
Section D - Electricity, gas, steam and air conditioning supply; Class 35.30, according to NKD Rev.2.	
<b>3.4</b>	<b>Statistical concepts and definitions</b>
Geothermal energy is exhausted from boreholes/springs. Energy available as heat exhaust from earth's crust usually appears in the form of hot water or heat.	
<b>3.5</b>	<b>Statistical unit</b>
Statistical units: business entities that exploit geothermal energy/water and belong to Section D - Electricity, gas, steam and air conditioning supply; Class 35.30, according to NKD Rev.2. Statistical units: business entities that exploit geothermal energy/heat and do not belong to section D, but belong to sections: agriculture, manufacture, etc.	
<b>3.6</b>	<b>Statistical population</b>
Business subjects that exploit geothermal energy/water and belong to Section D - Electricity, gas, steam and air conditioning supply; Class 35.30, according to NKD Rev.2.	
<b>3.7</b>	<b>Reference area</b>
Republic of North Macedonia	
<b>3.8</b>	<b>Time coverage</b>
Since 1998 year.	
<b>3.9</b>	<b>Base period</b>

<b>4</b>	<b>Unit of measure</b>
GJ, 000' toe.	
<b>5</b>	<b>Reference period</b>
Year.	
<b>6</b>	<b>Institutional mandate</b>
<b>6.1</b>	<b>Legal acts and other agreements</b>
<p>NATIONAL LEGISLATION</p> <p>Law on State Statistics ("Official Gazette of the Republic of Macedonia" No. 54/1997, 21/2007, 51/2011, 104/2013, 42/2014, 192/2015, 27/16, 83/18, 220/18 and "Official Gazette of the Republic of North Macedonia" No. 31/20) (<a href="https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/">https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/</a>)</p> <p>Programme of Statistical Surveys 2023-2027 ("Official Gazette of the Republic of North Macedonia" No. 29/23 and 57/25) (<a href="https://www.stat.mk/en/about-us/legal-acts/program-for-statistical-surveys/">https://www.stat.mk/en/about-us/legal-acts/program-for-statistical-surveys/</a>)</p> <p><b>International:</b> Regulation (EC) No 1099/2008 of the European Parliament and of the Council  Commission Regulation (EU) No 431/2014, amending Regulation (EC) No 1099/2008  Energy Statistics Methodology, Eurostat, 1998  Energy Statistics Manual, OECD/IEA/Eurostat, 2004  SHARES (SHort Assessment of Renewable Energy Sources) Tool Manual, Eurostat, 2015</p>	
<b>6.2</b>	<b>Data sharing</b>
Data are transmitted to IEA/Eurostat/UNECE with joint questionnaire JQ IEA - Eurostat - UNECE.	
<b>7</b>	<b>Confidentiality</b>
<b>7.1</b>	<b>Confidentiality - policy</b>
Individual data are protected by the Law on State Statistics. 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 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>
<a href="https://www.stat.mk/en/publishing-calendar/#/">(https://www.stat.mk/en/publishing-calendar/#/)</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>
Annually.	
<b>10</b>	<b>Accessibility and clarity</b>
<b>10.1</b>	<b>News release</b>
News Releases are published and they are available on the website of the SSO in the section: "News Releases" ( <a href="https://www.stat.mk/en/all-new-releases">https://www.stat.mk/en/all-new-releases</a> ),	
<b>10.2</b>	<b>Publications</b>
Not Aplicable	
<b>10.3</b>	<b>On-line database</b>
<a href="https://www.stat.mk/en/all-new-releases">https://www.stat.mk/en/all-new-releases</a> ),	
<b>10.4</b>	<b>Micro-data access</b>
<b>10.5</b>	<b>Other</b>
At the request of users, data are also prepared in a form according to their needs.	
<b>10.6</b>	<b>Documentation on methodology</b>
The methodological explanations are available on the State Statistical Office website. ( <a href="http://www.stat.gov.mk/MetodoloskiObjasSoop_en.aspx?id=64&amp;rbrObl=21">http://www.stat.gov.mk/MetodoloskiObjasSoop_en.aspx?id=64&amp;rbrObl=21</a> )	
<b>10.7</b>	<b>Quality documentation</b>
<b>11</b>	<b>Quality management</b>
<b>11.1</b>	<b>Quality assurance</b>

The quality of the processes and products in the State Statistical Office is ensured by adhering to the European Statistics Code of Practice ( <https://www.stat.mk/en/about-us/quality/code-of-practice/> ) and the Quality Assurance Framework within the European Statistical System (ESS Quality Assurance Framework – <https://ec.europa.eu/eurostat/documents/64157/4392716/ESS-QAF-V2.0-final.pdf> ). The quality criteria are also determined in the Law on State Statistics in Article 4b and Article 4c ( <https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/> ) .

## 11.2 Quality assessment

The State Statistical Office carries out statistical activities in accordance with the Statistical Business Process Model, which is based on the international model - Generic Statistical Business Process Model (GSBPM). The application of this model and international standards in statistical production ensures a high level of accuracy and comparability of data.

## 12 Relevance

### 12.1 User needs

The data are used by governmental and scientific institutions, as well as by business community for: preparation of planned balance for next year, preparation of long term strategies related to energy needs and its share in planned consumption on national level, analysis of use of renewable sources, calculation of share of renewable sources in total consumption on national level, etc.

### 12.2 User satisfaction

Starting from 2009, the State Statistical Office conducts a User Satisfaction Survey every three years.

### 12.3 Completeness

Concerning the indicators required by the Regulation (EC) No. 1099/2008, the SSO provides about 95%.

## 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

Not applicable (survey is with total coverage).

### 13.3 Non-sampling error

Coverage errors: 100% coverage is provided. Providers of data are reminded on time to fulfil their obligation.

Processing errors: Rules for control and calculations of output are implemented in the application for processing.

Non response errors: As full coverage is ensured, there are no non-response errors.

## 14 Timeliness and punctuality

### 14.1 Timeliness

T+290.

### 14.2 Punctuality

Data are disseminated within the established deadlines in accordance with the Release Calendar.

## 15 Coherence and comparability

### 15.1 Comparability - geographical

Data are released at national level. Comparability is ensured at international level.

### 15.2 Comparability - over time

Since 1998 there is no gap in the time series.

### 15.3 Coherence - cross domain

Data are coherent between different parts of energy statistics. Cross-domain coherence is ensured in part.

### 15.4 Coherence - internal

Internal coherence of data is ensured.

## 16 Cost and burden

## 17 Data revision

### 17.1 Data revision - policy

Data revision is made in accordance with the Statistical Data Revision Policy of the SSO: (<https://www.stat.mk/en/about-us/policies-and-strategies/data-revision/>).

### 17.2 Data revision - practice

Data are published as preliminary and final (revised) data. Data were revised in 2016 for the period 2005-2014. In revised energy balances are implemented results from the Survey on energy consumption in households, 2014.

## 18 Statistical processing

### 18.1 Source data

"This statistical survey is with full coverage. Statistical survey ""Annual survey on business entities operating with geothermal water/energy (ENE.58) is fill in by business entities that belong to Section D; Class 35.30, in accordance with NKD Rev.2. Updating of the coverage is carried out annually."

## 18.2 Frequency of data collection

Annually.

## 18.3 Data collection

"Data on geothermal water/heat are collected by the statistical survey ""Annual survey on business entities operating with geothermal water/heat"" (ENE.58). Business entities fill in data and send the completed forms to the SSO, at latest 25 days from the end of reference period."

## 18.4 Data validation

Data validation is made in accordance with defined control criteria. Data control is carried out before and after data entry. For any inconsistencies in data, contact is made with the reporting unit. Final results are also under control before publishing.

## 18.5 Data compilation

Editing: The data received from businesses entities, after verification and correction in consultation with the reporting units, are entered in an electronic application with integrated on-line controls. Imputations: Balances by energy products and energy balances are processed in accordance with scheme in Joint Questionnaires of IEA/Eurostat/UNECE.

## 18.6 Adjustment

No data adjustment is made.

## 19 Comment

## A.1 Annexes