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Reference Metadata in ESMS 2.0 structure

Statistical survey on hydro power plants (monthly)

E_ENE.1_M_EN_2022_12

Reference Metadata in ESMS 2.0 structure

1	Contact
1.1	Contact organisation
State Statistical Office	
1.2	Contact organisation unit
Department for environmental statistics, energy and transport	
1.3	Contact name
Gjurgjica Miloshevaska	
Stojna Maneva	
1.4	Contact person function
Senior Associate	
1.5	Contact mail address
Dame Gruev 4, 1000 Skopje, Republic of North Macedonia	
1.6	Contact email address
gjurgjica.milosevska@stat.gov.mk	
stojna.maneva@stat.gov.mk	

State Statistical Office

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1.7	Contact phone number
+ 389 3295-662	
1.8	Contact fax number
2	Metadata update
2.1	Metadata last certified
14/01/2022	
2.2	Metadata last posted
14/01/2022	
2.3	Metadata last update
14/01/2022	
3	Statistical presentation
3.1	Data description
<ul style="list-style-type: none"> - Total gross generation - Total gross generation: hydroelectric plants - Total gross generation: solar photovoltaic plants - Total net generation - Total net generation: hydroelectric plants - Total net generation: solar photovoltaic plants 	
3.2	Classification system

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- National Classification of Activities NKD. Rev.2

- List of energy commodities and types of energy

3.3 Sector coverage

Scope of Section:

D - Electricity, gas, steam and air conditioning supply; class 35.11, according to NKD Rev.2.

3.4 Statistical concepts and definitions

Hydroelectric plants are plants which convert the potential and kinetic energy of water into electricity.

Total gross electricity production covers gross electricity production in all types of power plants. Total gross electricity production at plant level is defined as electricity measured at the outlet of the main transformers including the amount of electricity used for own consumption during the production process.

Total net electricity production is the difference of the total gross production and own use electricity consumption during production process.

3.5 Statistical unit

Reporting units: Business entities belonging to Section: D (class 35.11) in accordance with NKD Rev.2.

Observation units: hydroelectricity plants.

3.6 Statistical population

Business entities producers of electricity belonging to Section: D (class 35.11).

3.7 Reference area

NUTS 1 and 2 (Republic of North Macedonia)

3.8 Time coverage

Since January 2005.

3.9 Base period

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4	Unit of measure
MWh.	
5	Reference period
Month.	
6	Institutional mandate
6.1	Legal acts and other agreements
<p>National: <u>Law on State Statistics</u> ("Official Gazette of the Republic of Macedonia" No. 54/97, 21/07, 51/11, 104/13, 42/14, 192/15, 27/16, 83/18, 220/18 and 31/20) and <u>Programme of Statistical Surveys 2018-2022</u> ("Official Gazette of the Republic of Macedonia" No. 22/18 and 224/18).</p> <p>International: 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>	
6.2	Data sharing
Data are transmitted to IEA/Eurostat/UNECE via questionnaire Electricity (M-3),	
7	Confidentiality
7.1	Confidentiality - policy
Individual data are protected by the <u>Law on State Statistics</u> . 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 <u>Policy on Statistical Confidentiality</u> contains the basic principles used in the SSO.	
7.2	Confidentiality - data treatment

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.

8 Release policy

8.1 Release calendar

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.

8.2 Release calendar access

http://www.stat.gov.mk/Kalendar_nov_en.aspx

8.3 User access

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.

9 Frequency of dissemination

Monthly.

10 Accessibility and clarity

10.1 News release

Monthly news release: "Energy."

10.2 Publications

Not applicable. Survey data are not published in publication.

10.3 On-line database

MAKSTAT database available on web page on SSO.

10.4 Micro-data access

According to the [Law on State Statistics \(Article 41\)](#) and the [Policy on Access to Anonymised Microdata](#) for scientific purposes, 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.

10.5 Other

Survey data are sent to Eurostat and they are released on the web site of this institution.

10.6 Documentation on methodology

[Methodological explanations](#) are published on web page of SSO.

10.7 Quality documentation

11 Quality management

11.1 Quality assurance

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](#) and the [Quality Policy of the State Statistical Office](#), as well as in the continuous efforts for harmonisation with the [European Statistics Code of Practice](#). The main aspects and procedures for quality management in the phases and sub-processes 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

The data are used by governmental and scientific institutions, as well as by the business community for: preparation of planned balances for next year.

All levels of aggregation, according to short-term statistis regulations, are calculated and published at national level and are transmitted to Eurostat. The statistical survey meets the principle of accuracy.

The data are published in accordance with the deadlines in the Release Calendar and timely transmitted to Eurostat. Data are comparable geographically and over time.

12 Relevance

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12.1	User needs
The data are used by governmental and scientific institutions, as well as by the business community for: preparation of planned balances for next year, for preparation of long-term strategies related to energy needs and its share in planned consumption at national level, analysis of use of renewable sources, share of renewables in total consumption in the country, etc.	
12.2	User satisfaction
The State Statistical Office conducts the User Satisfaction Survey at the domain level.	
12.3	Completeness
Concerning the indicators required by the Regulation (EC) No. 1099/2008, the SSO provides all of them.	
13	Accuracy and reliability
13.1	Overall accuracy
Data accuracy is ensured by working on decreasing 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

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Preliminary data are published 55 days after the end of the reference month (T + 55)

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 2005 there is no gap in the time series. The number of reference periods in the time series is 168.

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

It is not calculated

17 Data revision

17.1 Data revision - policy

In accordance with the [Statistical Data Revision Policy](#).

17.2 Data revision - practice

Data are published as preliminary and final (revised) data.

18 Statistical processing

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18.1	Source data
<p>The statistical survey is completed by business entities that belonging to Section: D - Electricity, gas, steam and air conditioning supply (class 35.11).</p> <p>Updating of the coverage is carried out annually.</p>	
18.2	Frequency of data collection
<p>Monthly.</p>	
18.3	Data collection
<p>Data on hydroelectric plants are collected by the statistical survey " Monthly survey on hydroelectric plants" (ENE.1). Business entities fill in data and send the completed forms to the SSO, at latest 25 days from the end of the reference period.</p>	
18.4	Data validation
<p>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.</p>	
18.5	Data compilation
<p>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: Monthly energy statistics are processed in accordance with the scheme in the Joint Questionnaires of IEA/Eurostat/UNECE.</p>	
18.6	Adjustment
<p>No data adjustment is made.</p>	
19	Comment
A.1	Annexes

State Statistical Office