



"REVENUES AND EXPENDITURE FOR MUNICIPAL WASTE AND EXPENDITURE FOR WATER SUPPLY INFRASTRUCTURE" STATISTICAL SURVEY METHODOLOGY

The statistical survey is conducted annually by the Environmental and Energy Accounts Department, Macroeconomic Statistics Directorate, of the National Statistical Institute, on the basis of mandatory participation, according to the National Statistical Program.

According to Art. 20 of the Statistics Act, respondents are obliged to provide the National Statistical Institute with reliable data on surveys included in the National Statistical Program, which are intended to be conducted on the basis of mandatory participation.

According to Art. 25, para. 1 of the Statistics Act, individual data obtained and collected during statistical surveys are confidential and can only be used for statistical purposes.

GENERAL INFORMATION

OBJECTIVE

The objective of the statistical survey is to provide information from the municipal administrations about the total revenues from taxes and fees, the expenditure incurred for municipal waste and for water supply infrastructure (investments and current expenditure).

The survey takes into account in economic aspect, the impact of waste on the environment and the health of the population, as well as use of the resources, the losses of drinking water and use of water resources for drinking water, development of new markets and the creation of new jobs.

ESSENCE

"Revenues and expenditure for municipal waste and expenditure for water supply infrastructure" survey is conducted in order to support the activity of fulfilling the reporting obligations under Regulation (EU) No. 691/2011 on European environmental economic accounts. It provides information on the revenues and expenditure of municipal waste and the expenditure of water supply infrastructure, which is used in the calculation of the environmental protection and restoration expenditure, incl. in the terms of the assessment of their quality, according to the requirements of the above mentioned Regulation and in accordance with the European Statistics Code of Practice.

The methodology used to collect information on the revenues and expenditure for municipal waste and the expenditure of water supply infrastructure is in accordance with the Accountancy Act and the National Chart of Accounts in Bulgaria.

PURPOSE

The data on the revenues and expenditure for municipal waste and expenditure for water supply infrastructure are used to support the reporting on the environmental protection expenditure module, according to Regulation (EU) No. 691/2011 on the European environmental economic accounts.

The data are published annually, according to the Release Calendar, on the NSI website for public information.

STATISTICAL SURVEY

SCOPE, STATISTICAL UNIT AND GENERAL POPULATION

The statistical survey "Revenues and expenditure for municipal waste and expenditure for water supply infrastructure" comprises all municipal administrations in terms of their activities related to the collection and waste treatment and the funds spent on the water supply network - internal and external for the respective territory.

The statistical unit is the municipal administration.

The general population consists of all municipal administrations on the territory of the country.

The statistical survey is comprehensive.

DATA SOURCES

- Statistical survey "Revenues and expenditures for municipal waste and expenditures for water supply infrastructure".

Information from other statistical surveys ("Environmental protection and restoration expenditure" and "Environmental goods and services") and administrative data (Ministry of finance, MOEW - Enterprise for managing environmental protection activities) are also used to check the data.

FREQUENCY OF DATA COLLECTION AND PUBLICATION

Annually.

STATISTICAL STUDY

DEFINING THE STATISTICAL POPULATION FOR THE STUDY

The statistical population is made up by all municipal administrations in the country. It is surveyed comprehensively by the statistical survey.

DATA COLLECTION

Primary data are collected from respondents for the previous reporting year. The data are collected via Environmental Statistics Information System (ESIS), which includes automatic checks for completeness, valid values, and logical data control, according to the specifics of the survey. The nomenclatures used for its needs and instructions for the respondents are available in the system.

PRIMARY DATA PROCESSING, DATABASE PREPARATION

PRIMARY DATA PROCESSING

After the respondents have reported their data in ESIS, their processing begins. It is carried out in the system according to the survey program schedule and goes through several stages.

Data validation is carried out on the basis of clearly defined criteria regarding their completeness, correct classification, units of measure, comparability with previous years, logical control, etc.

All checks are done at the respondent level.

DATABASE PREPARATION

After finalising the process of removing all identified errors and discrepancies in the data, actions on classifying and coding the data related to the statistical units or collected variables are also taken. The purpose of these encoding procedures is to obtain derived variables, numerical values, or aggregate values during the next processing stages. The coding process is carried out using code tables. When new versions of the used classifications and nomenclatures appear, recoding and reclassification of statistical units and variables is carried out.

After completing these actions, the methodologists prepare the primary database for further processing and calculation the statistical data.

CALCULATION AND ANALYSIS OF STATISTICAL INDICATORS

DATA PREPARATION

Data preparation is a set of processes through which the primary data are brought into a form suitable for the statistical data calculation, analysis and assessment of their quality and the subsequent presentation to users, incl. fulfillment of reporting obligations to Eurostat, according to the specified table formats.

ASSESSMENT OF PRIMARY DATA RESPONSE RATE

Within the framework of the Campaign, reports should be collected from all survey respondents. The statistical survey „Revenues and expenditure for municipal waste and expenditure for water supply infrastructure" is exhaustive and covers all municipalities in the country. Given the provisions of Art. 20 of the Statistics Act and as local self-government bodies, they are obliged to provide the required data, and ensuring full (100%) collection of reports and data are mandatory.

STATISTICAL DATA CALCULATION

Based on the primary data collected from the respondents, the calculation of the statistical data on the revenues and expenditure on municipal waste and the expenditure on water supply infrastructure is carried out as follows:

Total revenues from local taxes and fees (including municipal waste fees) = Sum of all revenues of municipal administrations

Total expenditure = Sum of the of the municipal administrations environmental domains expenditure
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Environmental activity of the municipal administrations include:

- Collection of municipal waste and transporting it to installations and facilities for their treatment, as well as providing domestic waste collection vessels with the exception of the separate collection, pre-storage and transportation of the municipal waste under the management of waste under the Waste Management Act;
- Expenditure incurred for the service of municipal waste treatment, not covered by the management of waste, as well as research, design, construction, maintenance, operation, closure and monitoring of landfills for municipal waste and/or other installations or facilities for recovery and/or disposal of municipal waste;

- Expenditure incurred for the service of maintaining the cleanliness of street lanes, squares, alleys, parks and other territories of the settlements and settlement formations in the municipality, intended for public use.

It should be taken into account that the fees are divided into those from legal entities and from individuals. The fees from individuals are used for the reporting to Eurostat. The fees from legal entities are used for the needs of preparing the data on the environmental protection and restoration expenditure, as they are compared with the fees paid by the enterprises for the municipal waste at the municipal administrations, reported with the latest survey.

Total expenditure for acquisition and maintenance of TFA and TIFA for water supply infrastructure =
Sum of the expenditure for the specific elements of the municipal administrations

The specific elements that are included in the calculation of expenditure for acquisition and maintenance of TFA and TIFA for water supply infrastructure are:

- Water supply network - internal and external;
- Other facilities, including reservoirs, pumping stations;
- Drinking water treatment plants;
- Means of financing.

Specialised software – Excel, SPSS and/or R – is used to calculate the data.

CONFIDENTIALITY

According to Regulation (EC) No. 223/2009 on European statistics and Statistics Act, the individual (primary) data of enterprises are confidential. In order to ensure their protection and the impossibility of being identified, the aggregated indicators are defined as confidential also when:

- Criterion A - the indicator is formed by one or two enterprises;
- Criterion B - one enterprise dominates the value of the indicator with a share equal to or greater than 85%.

QUALITY ASSURANCE

The statistical survey follows the General model of the statistical production process in NSI. The quality assurance is carried out in order to guarantee compliance with the requirements of the Statistics Act. Data quality is ensured by the application of the European Statistics Code of Practice principles and NSS Common Framework for Quality Management.

To ensure high quality of the data, their coherence is verified with data from “Environmental protection and restoration expenditure” and “Environmental goods and services” surveys.

Efforts are being made to continuously improve the quality of the data, by improving the primary data collection system through the online-based ESIS, ensuring strict arithmetic and logical control of the input data, and by performing additional analyses and verifications.

Quality report and metadata are also published on the NSI website together with the statistical data. They are updated annually and contain additional information related to the survey.

STATISTICAL PRESENTATION

Data on revenues and expenditure for municipal waste and expenditure for water supply infrastructure are presented by:

- Total revenues from local taxes and fees;
- Revenues from municipal waste fees;
- Expenditure, incurred under Art. 66, para.1 of LTFA;
- Total for the territory of the country.

The data are published on the NSI website in the "Statistical data - Environment" section, as well as in the Infostat system and are used for providing information upon users' request.