



REPUBLIC OF CROATIA
CROATIAN BUREAU OF STATISTICS



QUALITY REPORT FOR STATISTICAL SURVEY

Investments in Environmental Protection and Expenditures on Goods and Services in Environment (IDU-OK) for 2023

Organisational unit: Environment Statistics Unit

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0. Basic information

- Purpose, goal, and subject of the survey

The Survey is aimed at data collection on expenditures (investments and costs), revenues (output) and persons in employment in environmental protection and resource management according to the NKD 2007 activities.

- Reference period

Calendar year

- Legal acts and other agreements

Regulation (EU) No 691/2011 of the European Parliament and of the Council of 6 July 2011 on European environmental economic accounts (OJ L 192, 22.7.2011)

Regulation (EU) No 538/2014 of the European Parliament and of the Council of 16 April 2014 amending Regulation (EU) No 691/2011 on European environmental economic accounts (OJ L 158, 27.5.2014)

Decision on the National Classification of Activities – NKD 2007 (OG, Nos 58/07 and 72/07)

Official Statistics Act (OG, No. 25/20)

Accounting Act (OG, Nos 78/15, 134/15, 120/16, 116/18, 42/20, 47/20 and 114/22)

Act on Financial Operations and Accountancy of Non-Profit Organisations (OG, No. 121/14)

Act on Non-Profit Accountancy and Accounting Plan (OG, Nos 01/15, 25/17, 96/18 and 103/18)

Ordinance on Budget Accounting and the Accounting Plan (OG, Nos 124/14, 115/15, 87/16, 3/18, 126/19 and 108/20)

- Classification system

National Classification of Activities 2007

Classifications of environmental protection activities and resource management (CEPA and CRema) and European System of National and Regional Accounts (ESA)

- Concepts and definitions

Investments refer to the total realised investments in assets, methods, practices, technologies, processes and equipment for environmental protection. Realised investments are also construction works and asset acquisitions made during the reporting year, regardless of whether they were completed and paid for or not. The data are divided according to investors' main activity.

Pollution prevention could involve different types of activities, such as: modifying existing equipment or technology, integrating new and improved technology, re-formulating or re-designing products, switching to raw materials that provide cleaner inputs and/or restoring environmental changes as a part of environmental management.

Environmental protection expenditure is the money spent on all purposeful activities directly aimed at the prevention, reduction and elimination of pollution or any other degradation of the environment. It includes current expenditure on goods and services.

Revenues from environmental-protection activities include: revenues from principal, secondary and ancillary activities and investments for own use, which are the result of environmental protection-related activities with a market value (e.g. electric energy as a by-product in the process of landfill degasification or recycled waste) and the value of savings from using internal own by-products as a result of environmental protection-related activities.

Persons in employment in the activities related to environmental protection and resource management are presented in the full-time equivalent (FTE). The full-time equivalent (FTE) is the number of full-time equivalent jobs. It is defined as total hours worked divided by average annual hours worked in full-time jobs (according to ESA 2010). According to the Regulation (EU) No. 691/2011 on European environmental economic accounts (27 May 2014), the number of persons employed is to be reported in full-time equivalents (FTEs) in environmental accounts.

Environmental protection domains and resource management

Environmental protection domains are divided into protection of air and climate, waste water management, protection and remediation of soil, groundwater and surface water, noise and vibration abatement, protection of biodiversity and landscape, protection against radiation and other activities.

Data on environmental expenditures are collected for different environmental domains as defined by the Single European Statistical Classification of Environmental Protection Activities (CEPA), adopted at the Conference of the European Statisticians in June 1994 and revised in 2000.

- **Statistical units**

Reporting units are business entities and parts thereof from the Statistical Business Register as well as government bodies and non-profit organisations.

Data sources used for the annual updating of the Address Book are data of the Statistical Business Register, of the Financial Agency and of other, secondary sources.

- **Statistical population**

It includes business entities and parts thereof from the Statistical Business Register. On the basis of available data, the coverage included all statistical units that had more than 90% of investments or expenditures related to environment protection according to NKD 2007 activity sections.

1. Relevance

1.1. Data users

Scientists, students

1.1.1. User needs

Scientists – for research purposes, students – for theses

1.1.2. User satisfaction

The first user satisfaction survey of the Croatian Bureau of Statistics was conducted in 2013, the second one in 2015, and the last one at the end of 2022. The results of the survey are available on the website of the Croatian Bureau of Statistics <https://dzs.gov.hr/highlighted-themes/quality/user-satisfaction-surveys/686>

1.2. Completeness

Data are submitted in accordance with the relevant EU legislation.

1.2.1. Data completeness rate

The indicator is not computed.

2. Accuracy and reliability

2.1. Sampling error

Not applicable.

2.1.1. Sampling error indicators

The indicator is not computed.

2.2. Non-sampling error

The eligibility rate is the share of eligible reporting units among all selected reporting units.

2.2.1. Coverage error

Not applicable.

2.2.2. Over-coverage rate

The indicator is not computed.

2.2.3. Measurement errors

A treatment includes data verification, while errors that emerged are checked by phone with reporting units before correction.

2.2.4. Non-response errors

Reporting units are contacted by phone whenever necessary.

2.2.5. Unit non-response rate

The indicator is not computed.

2.2.6. Item non-response rate

The indicator is not computed.

2.2.7. Processing errors

An erroneous piece of data, either entered by the reporting unit or occurred during the data processing, is verified and corrected.

2.2.8. Imputation rate

The indicator is not computed.

2.2.9. Model assumption error

Not applicable.

2.3. Data revision

2.3.1. Data revision – policy

The users of statistical data are informed about revision (preliminary, final data) on the website of the Croatian Bureau of Statistics.

2.3.2. Data revision – practice

Provisional data are released in the First Release, whereas final data are released in the database.

2.3.3. Data revision – average size

The indicator is not computed.

2.4. Seasonal adjustment

Not applicable.

3. Timeliness and punctuality

3.1. Timeliness

On 22 December 2023 (e.g., data relating to 2022 are released in December 2023)

T + 347 days

3.1.1. Timeliness – first results

The indicator is not applicable.

3.1.2. Timeliness – final results

Time lag of final results is: T + 10.3.

3.2. Punctuality

All data have been submitted on time based on planned release dates.

T + 0.

3.2.1. Punctuality – delivery and publication

Delivery and publication is: 0

4. Accessibility and clarity

Data are disseminated electronically – by releasing them on the website of the Croatian Bureau of Statistics in the form of the First Releases. The First Release contains short Notes on Methodology, such as sources and methods of data collection, coverage and comparability, definitions etc.

4.1. News release

The First Release OEN-2023-1-4 Environmental Protection Expenditure Accounts (EPEA) and Environmental Goods and Services Sector (EGSS) Accounts, 2022 – Provisional Data

Deadlines: 22 December 2023

4.2. Online database

Data are released in PC-Axis database <https://podaci.dzs.hr/en>

4.3. Microdata access

The conditions under which certain users can access microdata are regulated by the Ordinance on Conditions and Terms of Access and Use of Confidential Statistical Data of the Croatian Bureau of Statistics for Scientific Purposes (NN, br. 5/23).

4.4. Documentation on methodology

The basic Notes on Methodology are published in the First Release and in the PC-Axis database.

5. Coherence and comparability

5.1. Asymmetry for mirror flows statistics

Not applicable.

5.2. Comparability over time

Comparable data series refer to the period from 2014 to 2022.

5.2.1. Length of comparable time series

Length of comparable time series is: 9 years

5.2.2. Reasons for break in time series

Not applicable.

5.3. Coherence – short-term and structural data

The indicator is not computed.

5.4. Coherence – national accounts

The indicator is not computed.

5.5. Coherence – administrative sources

The indicator is not computed.

6. Cost and burden

6.1. Cost

Costs are associated with data production through material costs and employees' incomes.

6.2. Burden

The indicator is not computed.