

**Documentation of statistics for
Public Expenditure and Revenue on the Environment 2012**

1 Introduction

The purpose of the statistics is to shed light on the expenditure and revenue that the public sector has in the area of environmental protection. The statistics also contains a separate section on the revenue from environmental related taxes allocated by industries and households.

The current publication of environmental protection expenditure and -revenue statistics is started in 1999, and continued until 2009 where the statistics was discontinued, due to budgetary reasons. In 2012, the work resumed with minor changes.

2 Statistical presentation

The purpose of the statistics of the public expenditures and revenues is to illustrate the money spent on activities and actions that are aimed at the prevention, reduction and elimination of pollution as well as any other degradation of the environment. The public environmental protection accounts is divided into sector, economic categories and environmental domains.

In addition, the statistics include a separate statistics on the environmental taxes. These taxes are divided into four categories such as pollution, transport, energy and resource taxes. Furthermore, the resource interest rate, also known as hydrocarbon tax, oil pipeline tax and corporation tax on hydrocarbon are presented with the environmental tax statistics.

2.1 Data description

The public environmental revenues and expenditure statistics provides information on, government environmental protection activities aimed at the prevention and control of pollution and transition to sustainable technologies. The statistics provide information on public sector environmental protection expenditure and - revenue by sector, environmental domains and economic categories. Since 2007 the accounts are divided into central government, local government, regions and public corporations.

The environmental domains are air and climate, wastewater, waste, soil and groundwater, noise, biodiversity and landscape, radiation, research and development, other (including administration). The main economic categories are current and capital expenditure, sales of goods and services, total capital revenue.

In addition, the statistics include a separate statistics on the environmental taxes. The main purpose of the calculation of the environmental taxes is to give a coherent description of where the major environment-related taxes across industries and households, etc. directly imposed. The individual charges in the accounts separated into what is related to pollution, energy, transportation or resource taxes. As an additional supplement, the resource interest rent also known as hydrocarbon tax, oil pipeline tax and corporation tax on hydrocarbon are presented as a supplement to the Danish inventory of environmentally related taxes. These 5 categories can be allocated to industries and households.

2.2 Classification system

The environmental taxes are classified into four main categories, resource, energy, transport, pollution taxes. The resource rent such as hydrocarbon tax and corporation tax on hydrocarbon is additionally presented as an supplement to the Danish inventory of the environmentally related taxes. The environmental taxes are based on the international manual from Eurostat: Environmental taxes - A statistical guide (2013), ISBN 978-92-79-33230-2

The environmental protection expenditure and revenues by the public sector uses basically the same expenditure and revenue terms used in the public sector in national accounts. The total environmental protection expenditure and revenues are presented by sector, economic categories and nine environmental domains such as soil and groundwater, waste, wastewater, air and climate ect. The statistics on environmental protection expenditure and revenues is based on the international manuals: Environmental expenditure statistics - General Government and Specialized Producers data collection handbook (2007), ISBN 978-92-79-04732-9 and SERIEE - Environmental Protection Expenditure Accounts; compilation guide (2002), Cat no. KS-BE-02-001-EN-N

2.3 Sector coverage

Public sector which includes the central government, local government, regions and public corporations.

2.4 Statistical concepts and definitions

Mio.kr.:

Regnskabskonti: Regnskaber.

2.5 Statistical unit

The statistics for the public environmental protection expenditure and revenues are published on subsector level such as central-, local- and regional government, as well as public corporations.

2.6 Statistical population

Final accounts from the central government accounts, local government and regional accounts which can be related to environmental protection activities.

2.7 Reference area

Denmark.

2.8 Time coverage

1995-2013

2.9 Base period

Not relevant for this statistics.

2.10 Unit of measure

Million DKK.

2.11 Reference period

01-01-2012 - 31-12-2012

2.12 Frequency of dissemination

yearly statistics

2.13 Legal acts and other agreements

§ 6 in Law on Statistics Denmark

Statistics on environmentally related taxes by economic activity is regulated under the European Parliament and council regulation no. 691/2011 on European environmental economic accounts.

Statistics on environmental protection expenditure and -revenues is regulated under the European Parliament and council regulation no. 538/2014 on European environmental economic accounts.

2.14 Cost and burden

The response-burden is nil, since the statistics are compiled on the basis of register information.

2.15 Comment

There is no further information.

3 Statistical processing

Data for government environmental protection expenditure accounts is collected annually from final accounts from central-, local- and regional accounts. Detailed information of the environmentally related taxes, divided into four different environmental categories, based from the DIOR database in government finances. These four categories are additionally broken down by industries on the basis of detailed information from national accounts.

3.1 Source data

The sources of the statistics are public accounts and accounts from public companies from the relevant sectors. Technically, the statistics are compiled on the basis of the Database of Integrated Public Accounts (Statistic's Denmark's "DIOR" register).

3.2 Frequency of data collection

Yearly.

3.3 Data collection

Data from final accounts in the central, local and regional accounts are collected for the public sector environmental protection statistics. Data for the environmentally related taxes are collected from government finance statistical database (DIOR).

3.4 Data validation

Data for the environmentally related taxes are validated and quality assured by comparing them against the collected taxes and fees collected by the Ministry of Taxation, which is incorporated in the Government Finance database (DIOR).

3.5 Data compilation

Data for the public environmental revenues and expenditure are collected from the final accounts in central, local and regional government. Data for the public corporations are stored electronically at Statistics Denmark. A budget analysis is made in order to detect the accounts and transactions which can be related to environmental protection activities.

Data for the environmental taxes are collected directly from Statistics Denmark's database DIOR.

3.6 Adjustment

No further adjustments are being made, except for what is described under data compilation.

4 Relevance

The most frequent users of the statistics are: The Ministry of the Environment, including the Environmental Protection Agency, the Environment and Economic Council (DØRS), Climate and Energy Ministry, Local Government Denmark, Eurostat - Unit E2 Environmental Statistics and the OECD - Environment Directorate. Information about users' needs and satisfaction is collected via the contact committee on environmental-economic accounting and statistics.

4.1 User Needs

Ministry of environment, Danish Economic-Environmental council, Ministry of climate and energy, local authorities, OECD - Environment Directorate, Eurostat- Unit E2 etc.

4.2 User Satisfaction

A liaison group on environmental economic accounts and statistics holds at least one meeting per year. All or part of the committee's meetings is as seminar form where there may be several participants from the institutions represented on the committee. The following institutions and organizations have a representative on the committee: Statistics Denmark, Minister of Economic and Business Affairs, Finance, Climate, Energy and Building Department, Ministry of Environment, Ministry of Food, Agriculture and Fisheries, Ministry of Transport, Ministry of Economy and Ministry of Interior, Energy Agency, the Environmental Protection Agency.

4.3 Data completeness rate

All published data meets the current requirements under EU legislation and guidelines in this area.

5 Accuracy and reliability

There are possibilities of misplacements of items within the environmental protection expenditure accounts. Figures for the most recent years are preliminary. There is a certain uncertainty about the environment share of integrated accounts - for example estimates of the environment related share of the final accounts which has common purposes. The final account data is not being audited. Later corrections may occur if there are detected errors in the data or in the data processing.

5.1 Overall accuracy

The statistics only give a rough estimate on 'the level' of public expenditure and revenue on the environment, since it is most difficult to give an unambiguous demarcation of this wide field. It is highly debatable whether this or that account in the public accounts should be part of the assessment. In some cases it has been necessary to estimate an environmental share of a given account, so that this particular account does not enter the assessment with its full amount. In such cases the judgment is typically based on relative rough estimates.

Fundamentally, it is not possible to capture all environmental transactions/activities conducted by the public authorities via their accounting. The main reason is that accounts are not detailed enough. Very often environmental issues are highly integrated parts of a complex whole, and this makes it impossible to estimate shares of every activity in the accounts. The statistics is consolidated within general government. This means that transfers between sectors are cancelled out. Thus the expenditures are shown by the sector that actually manages the tasks.

5.2 Sampling error

Not relevant for this statistics.

5.3 Non-sampling error

Not relevant for this statistics.

5.4 Quality management

Statistics Denmark follows the recommendations on organisation and management of quality given in the Code of Practice for European Statistics (CoP) and the implementation guidelines given in the Quality Assurance Framework of the European Statistical System (QAF). A Working Group on Quality and a central quality assurance function have been established to continuously carry through control of products and processes.

5.5 Quality assurance

Statistics Denmark follows the principles in the Code of Practice for European Statistics (CoP) and uses the Quality Assurance Framework of the European Statistical System (QAF) for the implementation of the principles. This involves continuous decentralized and central control of products and processes based on documentation following international standards. The central quality assurance function reports to the Working Group on Quality. Reports include suggestions for improvement that are assessed, decided and subsequently implemented.

5.6 Quality assessment

The statistics cover the total accounts for all 98 municipalities and regions, all ministries in the state, and all public companies. The final accounting figures are not revised. The central government, the municipal and regional accounts and public companies are considered to be final when published. Corrections may occur later if errors in the data or in the data processing is discovered. The individual statistics have a scale and level of detail which is in line with other countries such as Sweden, Norway and the Netherlands. The accounts are established in accordance with international guidelines from Eurostat and the UN.

5.7 Data revision - policy

Statistics Denmark revises published figures in accordance with the [Revision Policy for Statistics Denmark](#). The common procedures and principles of the Revision Policy are for some statistics supplemented by a specific revision practice.

5.8 Data revision practice

The differences between provisional and final years are typically small. National accounting revisions may bring data changes as long back in timelines as 4-5 years. This will however only seldom if ever affect the data on environmental expenditure and revenue.

6 Timeliness and punctuality

The statistics is published with high timeliness and punctuality. The statistics is usually published without delay in relation to the scheduled date.

6.1 Timeliness and time lag - final results

For accounting data: 12 months.

6.2 Punctuality

Normally, the statistics are published without delay in relation to the scheduled date.

7 Comparability

Data on environmental taxes are compared with the reported data from the Ministry of Taxation, which is stored in the Government Finance database, DIOR. At the aggregate level the Danish accounts are comparable with the European accounts established for other EU countries as a result of the European Parliament and Council Regulation no. 691/2011 on European environmental economic accounts.

7.1 Comparability - geographical

The statistics on environmental taxes are comparable with corresponding statistics for the other EU member states, see Eurostat's publications on environmental taxes: [Eurostat environmental taxes manual](#)

The statistics on public environmental protection expenditure and revenues are comparable with corresponding statistics for the other EU member states, see Eurostat's publications on environmental protection accounts: [Eurostat, Environmental protection expenditure manual](#)

7.2 Comparability over time

Since 2012 the environmentally related taxes are based on new EU legislation. The time series back to 1995 was recalculated in 2013, using new methods according to ESA 2010 which is in line with national accounts transition to the use of this manual. Environmentally related taxes are comparative in an international perspective.

The public sector environmental protection revenues and expenditure in connection with the recent publication still follows the former European System of Accounts, ESA 1995. It is expected that the public sector environmental protection accounts onwards will be published according to the principles of ESA 2010.

7.3 Coherence - cross domain

Since the statistic is built on a European framework and methods it is comparable with other European statistics on economic expenditure and revenue in the field of environmental protection.

The statistics are comparable with all other statistics on public expenditure and revenue, and the section on environmental related taxes is comparable with other tax statistics. If one wished to compare the environmental statistics with general government statistics one has to exclude public corporations, as they are not contained in general government

7.4 Coherence - internal

The final accounts data are collected directly from the systems in the municipalities and regions and received only from one source. There is internal consistency between the main accounting numbers and underlying functions.

The final accounts for the central government is collected directly from the Ministry of Finance. There is internal consistency between main paragraphs and sub-accounts.

8 Accessibility and clarity

The statistics is published continuously in: *Nyt fra Danmarks Statistik and Miljø og energi* (Statistiske Efterretninger) (in English: News from Statistics Denmark and Environment and energy, both which are only available in Danish).

The statistics are included annually in the following yearly publications: Statistical Yearbook, Statistical ten-year review and Environment (of which the last is only available in Danish)

8.1 Release calendar

The publication date appears in the release calendar. The date is confirmed in the weeks before.

8.2 Release calendar access

The Release Calendar can be accessed on our English website: [Release Calendar](#).

8.3 User access

Statistics are always published at 8:00 a.m. at the day announced in the release calendar. No one outside of Statistics Denmark can access the statistics before they are published.

8.4 News release

[Nyt](#)

8.5 Publications

[Miljøøkonomisk regnskab](#)

8.6 On-line database

The public sector environmental accounts by environmental category, kind and sector: MREG2

Environmental taxes etc. by industry and type of tax: MRS1

Environmentally related taxes by environmentally related category : MREG21

8.7 Micro-data access

Micro data is not made available to for instance researchers.

8.8 Other

Not relevant for this statistics.

8.9 Confidentiality - policy

[Statistics Denmark's confidentiality policy](#)

8.10 Confidentiality - data treatment

Not relevant for this statistics.

8.11 Documentation on methodology

For further documentation se for instance the following Eurostat publications:

- Environmental expenditure in Europe. Cat.No. KS-39-01-320-N-EN
- Environmental taxes - A statistical guide. ISBN 92-894-1358-1. Cat.No. KS-39-01-007-EN-N

8.12 Quality documentation

Results from the quality evaluation of products and selected processes are available in detail for each statistics and in summary reports for the Working Group on Quality.

9 Contact

The administrative placement of this statistics is in the division of Government Finances. The person responsible is Flintull Annica Eriksson, tel.: +45 3917 3573, e-mail: aer@dst.dk

9.1 Contact organisation

Statistics Denmark

9.2 Contact organisation unit

Government Finances, Economic Division

9.3 Contact name

Flintull Annica Eriksson

9.4 Contact person function

Responsible for the statistics

9.5 Contact mail address

Sejrøgade 11, 2100 Copenhagen

9.6 Contact email address

aer@dst.dk

9.7 Contact phone number

+45 3917 3573

9.8 Contact fax number

+45 39 17 39 99