

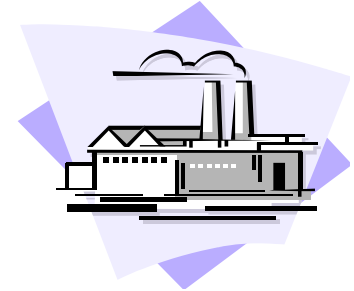


THE SLOVENIAN
NATIONAL
STATISTICS

TRUSTWORTHY
AND
USER-ORIENTED

SEEA AND ENVIRONMENTAL PROTECTION EXPENDITURE

Danica BIZJAK
danica.bizjak@gov.si



SUSTAINABLE ENVIRONMENT

To ensure that it meets the needs of the present without comprising the ability of future generations to meet their own needs.

BRUNTLAND COMMISSION, 1987

How does the environment contribute to human development?

How does human interaction with the environment enhance or diminish its capacity to provide benefits now and in the future?

Activities that inevitably somehow affect the environment

- sectors of economy,
- government agencies or local authorities,
- companies involved in industrial or other businesses activities,
- businesses providing environmental services (such as collection and treatment of waste, or environmental consultancy),
- households as consumers.

How to follow the responses on living and production processes ?

- Different data sources (companies, Ministries, Agencies, Institutions)
- The link between environment and economy consistent with national accounts
- Simple and understandable data for policy makers and the end users

The awareness of environmental protection

- From governmental side
 - adopting regulatory measures (e.g. Environmental Protection Act)
- From production side :
 - Awareness of companies (environmental standards)
 - Financial abilities
 - Production of environmental goods and services

Data collection on environmental expenditure

- OECD/Eurostat ----- EPER
- Eurostat ----- SERIEE
- UN/EC/IMF/OECD/WB ----- SEEA

Table 1: Composition of JQ aggregates

Variables and aggregates		Definition
	Investment expenditure	Purchases of capital expenditure (end-of-pipe and integrated investment) and land acquisition
+	Internal current expenditure	Intermediate consumption and compensation of employees for the EP activities
-	Receipts from by-products	Economic benefits linked to the EP activity
=	EXP I	Expenditure according to the abater principle
+ (-)	Transfers paid (received)	Transfers related to EP activities, incl. earmarked taxes
+	Fees & payments for EP services	Environmental protection services purchased from another unit/sector
-	Revenues from EP services	Sales of environmental protection services to other sectors/units
=	EXP II	Expenditure according to the financing principle

EPEA

JQ

<u>EPEA</u>	<u>JQ</u>
PRODUCERS	
Specialised	
<i>General government</i>	
Non-market	Public sector
Market without autonomy of decision	Public specialised producers
<i>Other (market)</i>	
Public firms and similar	Public specialised producers
Private	Private specialised producers
<u>EPEA</u>	<u>JQ</u>
Non-specialised (by industry)	
<i>With secondary EP output</i>	Public or private specialised producers
<i>With ancillary EP output</i>	Business sector
<i>Without ancillary or secondary EP output</i>	Business sector

EPEA

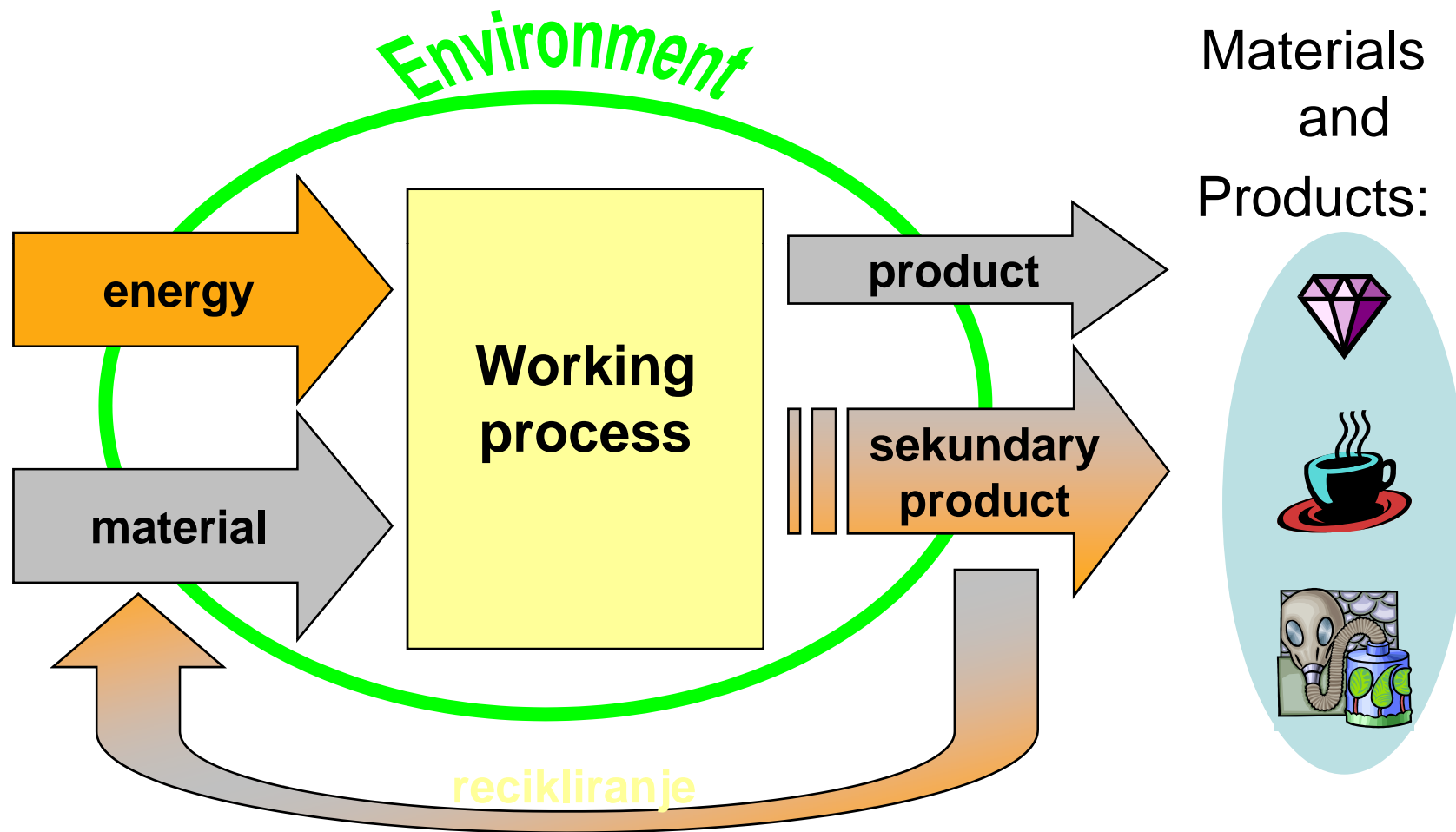
- **Table A** shows the national expenditure on Environmental protection distributed by users/beneficiaries and by components.
- - In **table B** the national output on environmental protection service is distributed by sectors.
- **Table B1** shows the use and supply of environmental protection
- The financing of the national expenditure is presented in **table C**
- **Table C1** provides an overview of the environmental related

Collecting data on EPE

(stressed on industry)

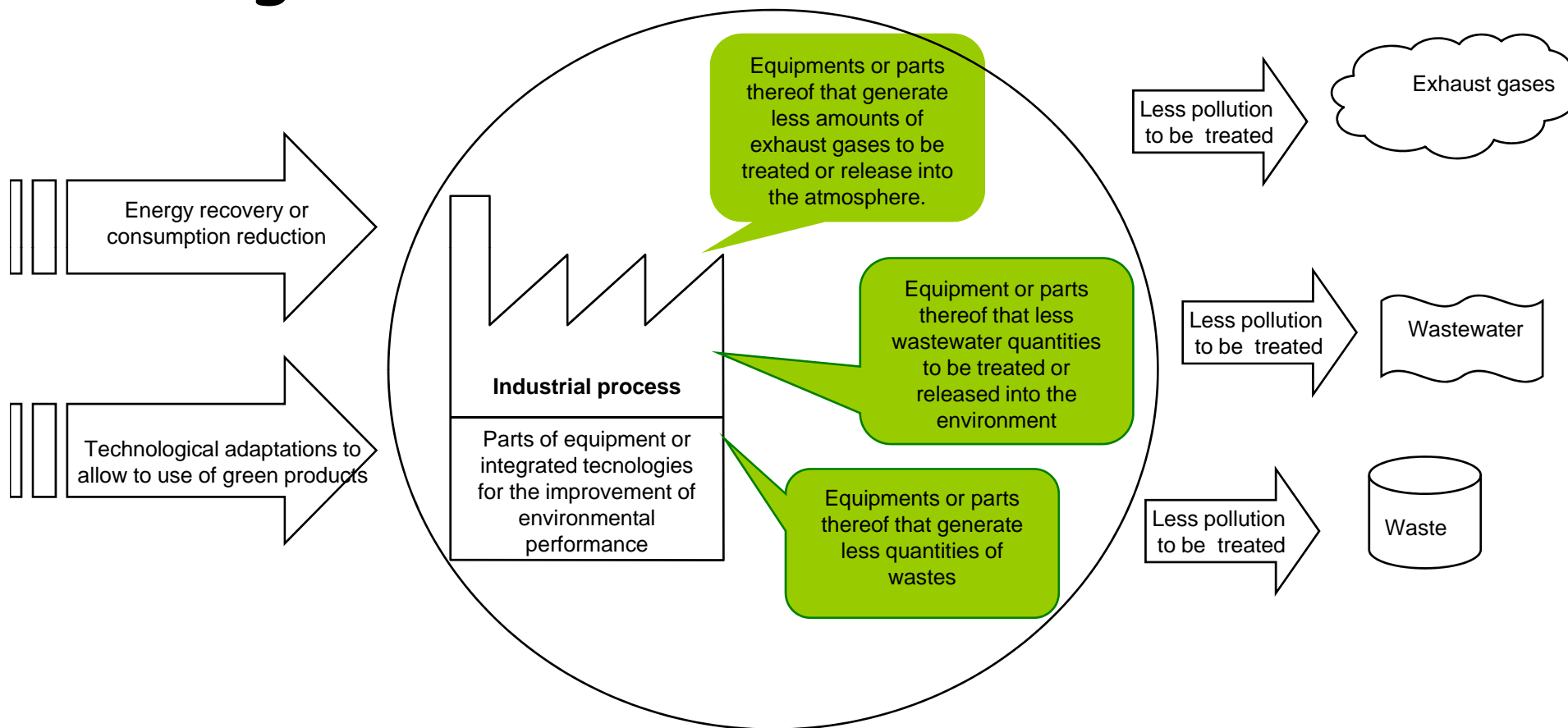
- Statistical surveys on EPE:
 - defining observing units
 - census or sample survey
 - focusing on crucial fields of activities
 - focusing on environmental domains

Working process and environment



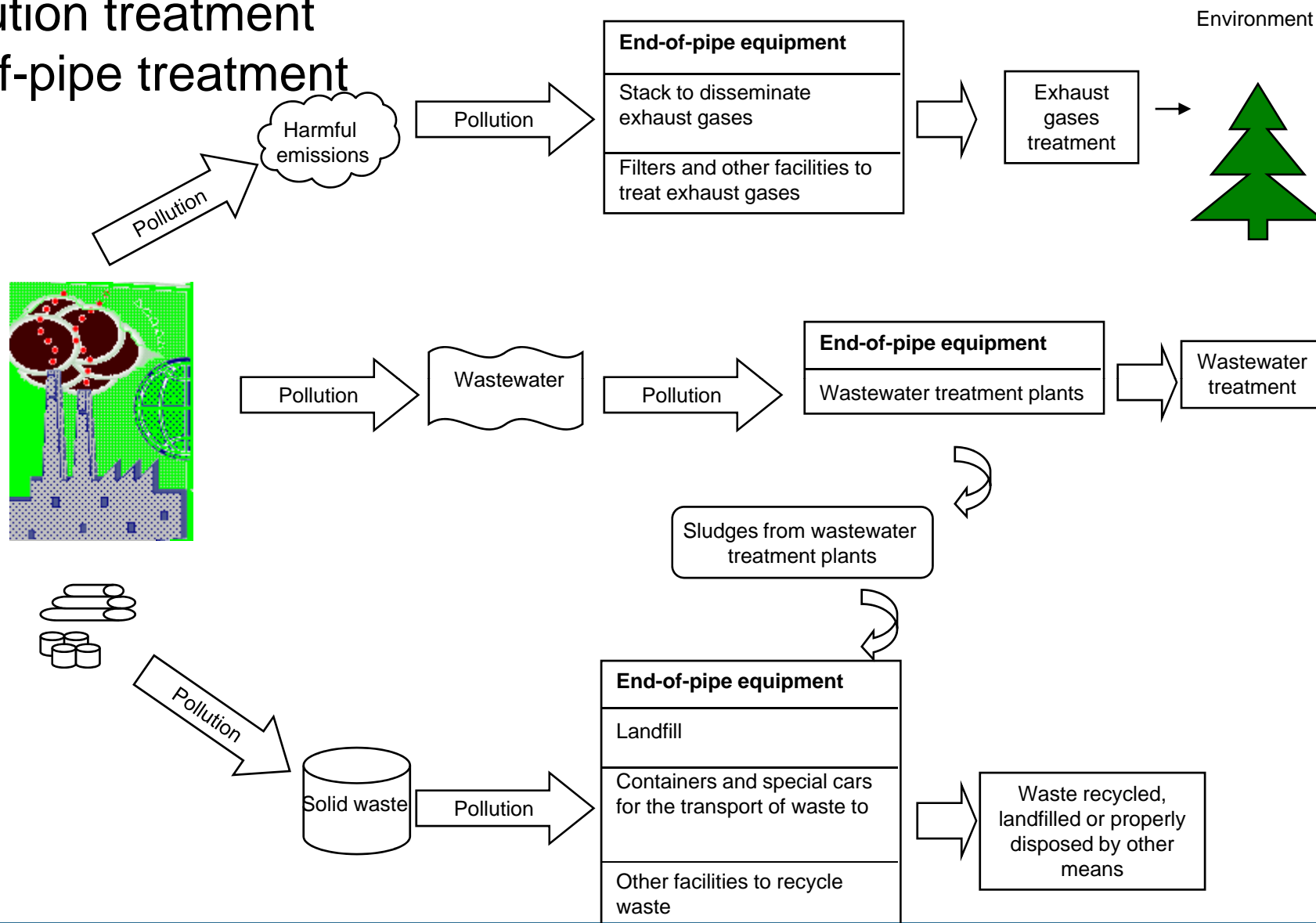
Pollution prevention

Integrated environmental investment



Pollution treatment

End-of-pipe treatment



Data sources for environmental expenditure in Slovenia

SORS – surveys OKI and OKI-S

Administrative sources

- Ministry of the Finance
- Environmental Agency of the Republic of Slovenia
- Tax Administration of the Republic of Slovenia
- Custom Administration of the Republic of Slovenia



SORS



- ❖ **Surveys on environmental data expenditures** as fulfilling yearly legal requirement for the Statistical Office of the Republic of Slovenia, a collector and disseminator of data under the National Statistics Act (OJ RS, No. 45/95 and 9/01) and Annual Programme of Statistical Surveys for (OJ RS, No. 130/06).

[illegible]

Observation units

are chosen with the sample from companies, enterprises and organisations registered for performing their activities in the Republic of Slovenia, having at least 20 persons in paid employment

Questionnaire OKI

First page:

- the purpose of the survey,
- legal base,
- information about methodological explanations,
- data accessibility
- contact persons for the further explanations
- three control questions

Questionnaire OKI



Following three tables:

- Table 1: Investments for environmental protection
- Table 2: Current expenditure for environmental protection
- Table 3: Incomes from environmental protection activities

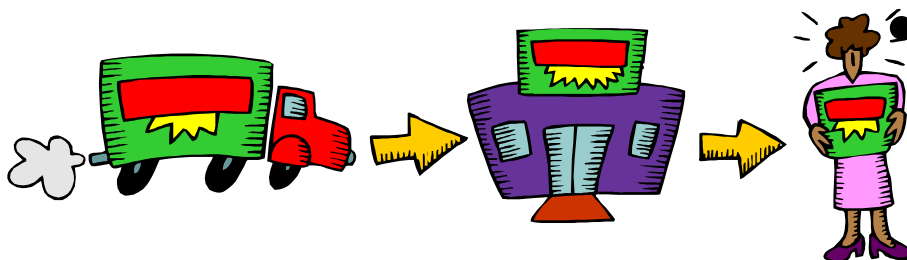
Questionnaire OKI

Table 1: Investment for environmental protection:

- End of pipe investment
- Integrated investment

By categories of financing:

- from own financial assets,
- from joint assets,
- from financial credits and leasing,
- from assets of funds,
- without compensation of assets



Questionnaire OKI

Table 2: Current expenditure for environmental protection

Internal current
expenditure

- Refer to current expenditures related to internal activities for environmental protection

External current
expenditure

- Include payments to third parties for environmental protection services

Questionnaire OKI

Internal current expenditure

- For operation and maintenance of environmental equipment (use of material, energy)
- Personnel costs (only for the personnel participating in environment protection)
- For general environmental management, information, education and other

Questionnaire OKI

External current expenditure

- Fees for environmental protection services (payments for waste water, waste etc.)
- Monitoring
- Other current expenditures (to be mentioned).

Questionnaire OKI

Table 3: Incomes from environmental protection activities

- Incomes from providing environmental protection services
- The revenues from sold by-products that are the result of the environmental protection activities
- The amount of reduction of costs because of the internal use of by-products that are the result of environmental protection activities

ENVIRONMENTAL DOMAINS

according to Classification of environmental protection activities - CEPA

- Protection of ambient air and climate
- Wastewater management
- Waste management
- Protection of soil and groundwater
- Noise and vibration abatement
- Protection of biodiversity and landscape
- Other environmental protection activities (protection against radiation etc.)

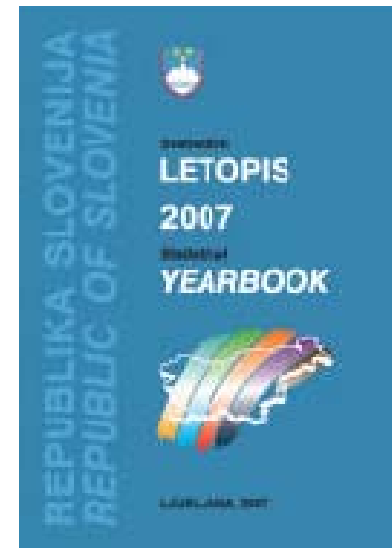
Data processing



- Data entry and editing
- Grossing up
- Recalculation to the total population
- Data tabulating :
 - by the predominant activity of the investor
 - territorial - by the location of the investor
 - by the environmental domain
 - by sectors
 - by size classes (SBS reporting)

Data dissemination

- First Release
- Statistical Yearbook
- To Eurostat:
 - SBS statistics
 - JQ OECD/Eurostat
- stat-si data base on our web page www.stat.si





Administrative sources



<http://www.mf.gov.si/angl/index.htm>

- COFOG classification section 05
Environmental protection,
- Economic classification - some account numbers for the environment related revenues and environment related expenditures.

Ministry of Finance

State budget according to:

- COFOG – section 05
- Consolidated balance under the Economic classification and accounting rules - account on the balance of revenues and expenditure

(also taking into account the contribution of Nuclear power plant to finance its decomposition)

COFOG - 05

- 05.1 Waste management
- 05.2 Waste water management
- 05.3 Pollution abatement
- 05.4 Protection of biodiversity and landscape
- 05.5 R&D Environmental protection
- 05.6 Environmental protection n.e.c.

Economic classification

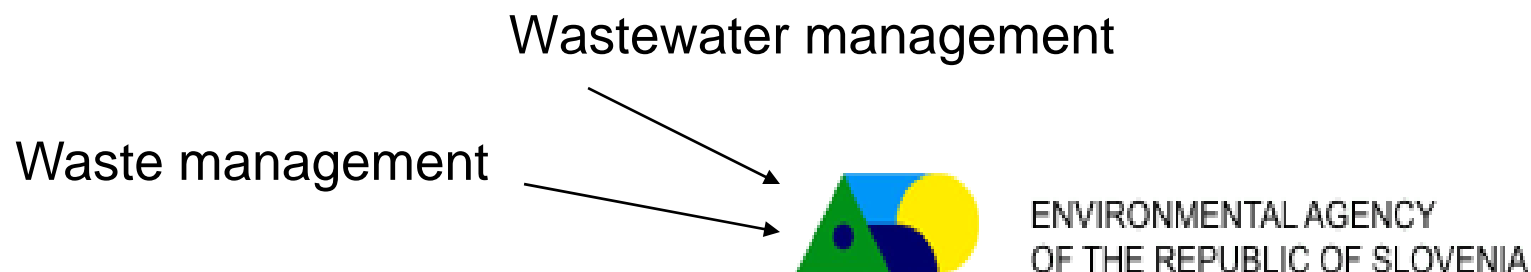
Revenues, such as:

- 704104 Tax on the air pollution from liquid fuels
- 704105 Tax on the air pollution from gaseous fuels
- 704106 Tax on the air pollution from solid fuels
- 704700 Tax on water burdening
- 704702 Resource water tax
- 704714 Tax on mineral extraction
- 704719 Tax on depositing of waste
- 704720 Tax on the decomposition of used cars

• Expenditure, such as:

- 402203 Wastewater treatment
- 402204 Waste management
- 410015 Financial assets for performing ecological programmes

Taxes on pollution



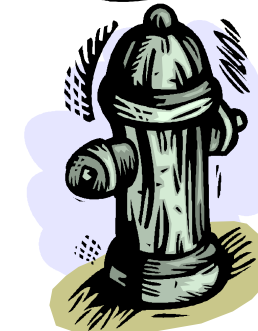
taxes for the pollution of air with carbon dioxide caused by different sorts of fuels, taxes on sales of vehicles, and taxes on end-of-life vehicles.



taxes for the pollution of air with emission from carbon dioxide caused by different kind of fuels, excise duties on mineral oil...

Environmental Agency of the Republic of Slovenia

- tax on waste water pollution
- wastewater collection and treatment charge
- waste management in general (collection and treatment)
- water resource tax
- tax on depositing of used tyres
- tax on used electric and electronic equipment
- tax on packaging.



Tax Administration of the Republic of Slovenia

- Tax for the pollution of air with emission from carbon dioxide caused by gaseous fuels
- Tax for the pollution of air with emission from carbon dioxide caused by hard fuels
- Tax for the pollution of air with emission from carbon dioxide caused by liquid fuels
- Tax on lubricating oils
- Tax on sales of new motor vehicles
- Tax on sales of used motor vehicles
- End-of-life vehicle tax

Custom Administration of the Republic of Slovenia

Data on:

- Excise duties on mineral oil
- Tax for the pollution of air with emission from carbon dioxide caused by gaseous fuels
- Tax for the pollution of air with emission from carbon dioxide caused by hard fuels
- Tax for the pollution of air with emission from carbon dioxide caused by liquid fuels
- Tax on lubricating oils
- Tax on motor vehicles
- End-of-life vehicle tax

INTERNATIONAL OBLIGATIONS

- Eurostat
 - SBS statistics
 - JQ Eurostat/OECD
 - New legal base on environmental accounting – in discussion

SBS reporting




(CR 58/97, CR 2700/98, CR 2701/98, CR 2702/98)

Reporting for industry sector by size classes for characteristics:

- **21110** Investment in the equipment in plant for pollution control, and special anti pollution accessories – mainly end-of-pipe equipment
- **21120** Investment in equipment and plant linked to cleaner technology (integrated technology)
- **21140** Total current expenditure on environmental protection

JQ OECD/Eurostat

Regularly reporting every second year for all the tables except for the households and public or private specialised producers of EP services.

<small>ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT</small>  <small>ORGANISATION DE COOPÉRATION ET DE DÉVELOPPEMENT ÉCONOMIQUES</small>	<small>STATISTICAL OFFICE OF THE EUROPEAN COMMUNITIES</small>  <small>OFFICE STATISTIQUE DES COMMUNAUTÉS EUROPÉENNES</small>
<small>Environment Directorate Direction de l'environnement</small>	<small>Directorate E: Agriculture and environment statistics Direction E: Agriculture et statistiques de l'environnement, coopération et statistiques</small>
<small>Environment Policy Committee Comité des Politiques d'Environnement</small> <small>Working Group on the State of the Environment Groupe de Travail "État de l'environnement"</small>	<small>Unit E-3: Environment Statistics Unité E-3: Statistiques de l'environnement</small> <small>Working Group "Statistics of the Environment" Groupe de Travail "Statistiques de l'environnement"</small>
 <small>2006 QUESTIONNAIRE</small>	
<hr/> ENVIRONMENTAL PROTECTION EXPENDITURE AND REVENUES <hr/>	
<div style="border: 1px solid red; padding: 5px; transform: rotate(-45deg); color: red; font-weight: bold;"> 31.12.2006 </div>	

According to SEEA already developed accounts

- MFA physical account
- NAMEA air emission – hybrid account

Responsible: Ms Vida Butina

Environment Protection Expenditure Accounts

- *ongoing project*

Responsible: Ms Danica Bizjak

Manuals and informations on EPEA

EUROSTAT PUBLICATIONS:

- SEEA 2003
- Manual ESA 95
- SERIEE/EPEA Guide, 2002
- Eco Industry Guide
- Industry manual
- Conversion tables JQ-EPEA

HVALA ZA VAŠO
POZORNOST