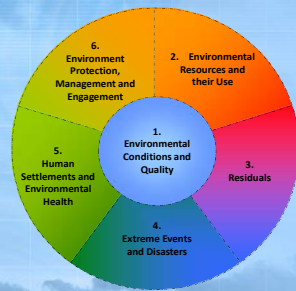


Environment and Energy: Environment Protection and Resource Management Expenditure



Environment and Energy
Statistics Workshop for the
Arab Region

Amman, Jordan 8-12 September 2013



Environment and Energy Statistics Branch,
United Nations Statistics Division



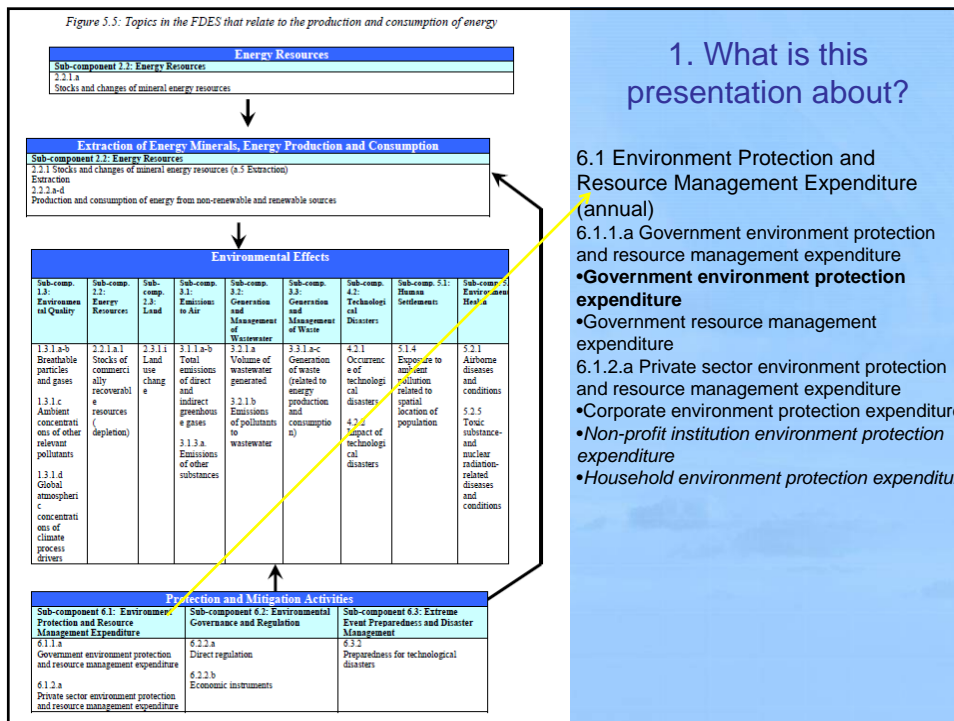
- This presentation has been elaborated by Mr. Michael Nagy on behalf of the Environment Statistics Section of the United Nations Statistics Division (UNSD).
- It is based on Chapters 3 and 5 of the Framework for the Development of Environment Statistics (FDES) 2013 that can be downloaded here:
<http://unstats.un.org/unsd/statcom/doc13/BG-FDES-Environment.pdf>
- All presentations, handouts and background materials for the workshop can be downloaded here:
<http://unstats.un.org/unsd/ENVIRONMENT/otherworkshops.htm>

Table of Contents



1. What is this presentation about?
2. Environment Protection and Resource Management Activities
 - A. Environment Protection Activities
 - B. Resource Management Activities
3. Government environment protection and resource management expenditure
4. Corporate, non-profit institution and household environment protection and resource management expenditure
5. Examples from Europe

Figure 5.5: Topics in the FDES that relate to the production and consumption of energy



1. What is this presentation about?

- 6.1 Environment Protection and Resource Management Expenditure (annual)
 - 6.1.1.a Government environment protection and resource management expenditure
 - Government environment protection expenditure
 - Government resource management expenditure
 - 6.1.2.a Private sector environment protection and resource management expenditure
 - Corporate environment protection expenditure
 - Non-profit institution environment protection expenditure
 - Household environment protection expenditure

2. Environment Protection and Resource Management Activities

A - Environment Protection Activities

PRIMARY purpose is the prevention, reduction and elimination of pollution and other forms of degradation of the environment



B - Resource Management Activities

PRIMARY purpose is preserving and maintaining the stock of natural resources and hence safeguarding against depletion

A - Environment Protection Activities

1. Protection of ambient air and climate
2. Wastewater management
3. Waste management
4. Protection and remediation of soil, groundwater and surface water
5. Noise and vibration abatement
6. Protection of biodiversity and landscapes
7. Protection against radiation
8. Research and development for environment protection
9. other environment protection activities

→ See Classification of Environmental Activities (CEPA, Table D.3 in FDES)

B – Resource Management Activities (interim)

10. Management of mineral and energy resources
11. Management of timber resources
12. Management of aquatic resources
13. Management of other biological resources
14. Management of water resources
15. Research and development activities for resource management
16. Other resource management activities

→ See Classification of Environmental Activities (CEPA → interim CEA, Table D.3 in FDES; CEA classification has been developed as a part of the SEEA Central Framework)

3. Government environment protection and resource management expenditure

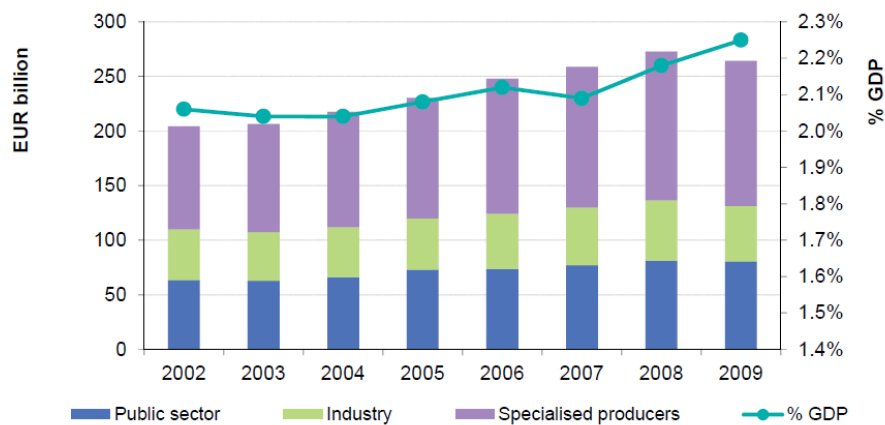
- Annual expenditure can be aggregated for local, regional and central governments
- Requires the identification and aggregation of expenditures considered to be primarily for environment protection and resource management purposes (use CEPA/CEA to identify)
- Figures to be typically taken from national accounts and government finance statistics.

4. Corporate, non-profit institution and household environment protection and resource management expenditure

- Requires specific surveys of establishments in different sectors and industries
- Key elements are updated and precise establishment registers, sampling procedures and questionnaire quality

5. Examples from Europe (EU-27) - I

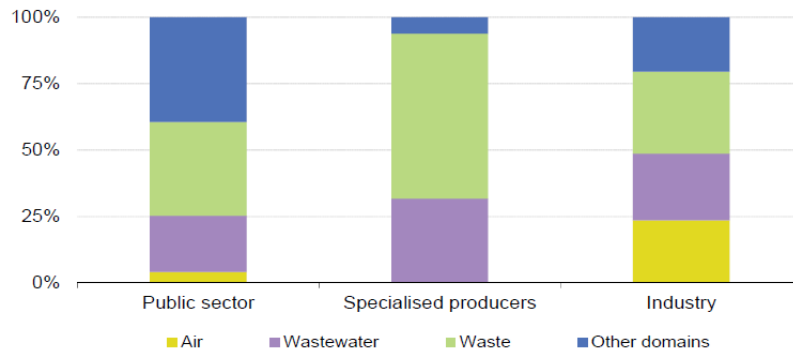
Figure 1: Environmental protection expenditure by sector, EU-27, 2002-2009 (1) (EUR billion and % of GDP)



(1) Eurostat estimates.
Source: Eurostat (online data code : [env_ac_exp1](#))

5. Examples from Europe (EU-27) - II

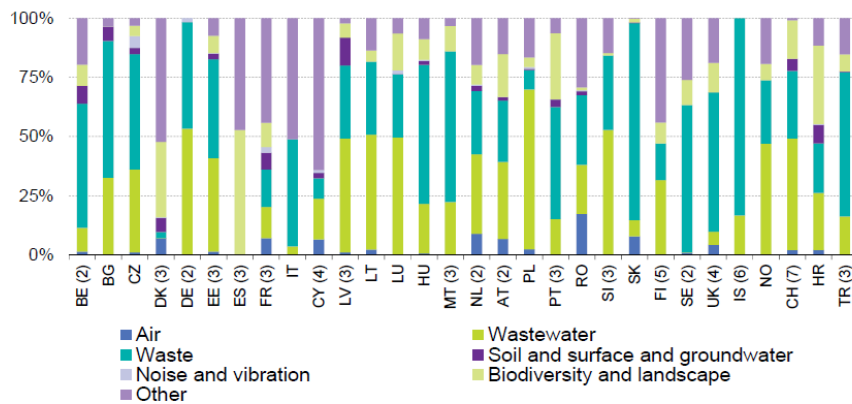
Figure 5: Environmental protection expenditure by sector and by environmental domain, EU-27, 2009 (1) (% of total EPE)



(1) Eurostat estimates.
Source: Eurostat (online data code: [env_ac_exp1](#))

5. Examples from Europe (EU-27) - III

Figure 10: Public sector environmental protection expenditure by environmental domain and by country, 2009 (1) (% of total EPE)



(1) Ireland and Greece, not available. (2) 2007. (3) 2008. (4) 2004. (5) 2006. (6) 2002. (7) 2003.
Source: Eurostat (online data codes: [env_ac_exp1](#), [env_ac_exp1r2](#))

6. Energy – relevant Statistics on Env. Protection and Resource Management Expenditure

6.1.1.a Government environment protection and resource management expenditure

6.1.1.a.1 Government environment protection expenditure

6.1.1.a.2 Government resource management expenditure

6.1.2.a Private sector environment protection and resource management expenditure

6.1.2.a.1 Corporate environment protection expenditure

6.1.2.a.3 *Non-profit institution environment protection expenditure*

6.1.2.a.5 *Household environment protection expenditure*

6. Energy – relevant Statistics on Environmental Protection and Resource Management Expenditure

Typical energy-sector environmental protection activities

- Prevention of pollution through in-process-modifications
- Treatment of exhaust gases and ventilation air
- Measurement, control, laboratories
- Waste management
- Protection against radiation

Typical energy-sector resource management activities

- Reduction of the intake of energy resources
- Research and Development for energy resource management

Thank you for your attention!

For more information please contact the Environment Statistics Section
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website: <http://unstats.un.org/unsd/ENVIRONMENT/>

