



Environmental Activity Accounts

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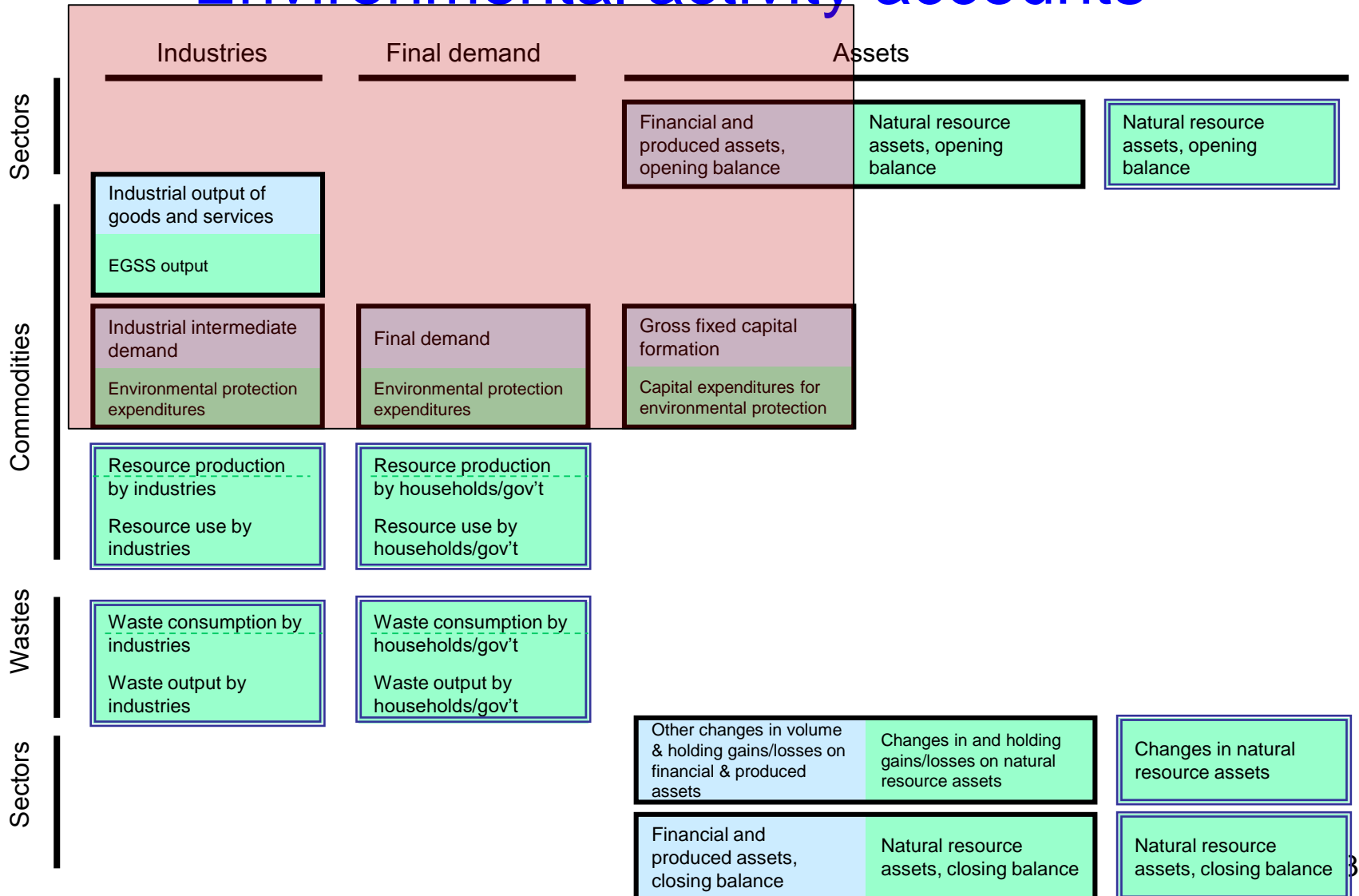


Content

- What are environmental activity accounts ?
- What is the EGSS ?
- Application: the EGSS
- Exercise



Environmental activity accounts





Scope and definition of environmental activities

- **The scope of environmental activities** *include those economic activities whose primary purpose is to reduce or eliminate pressures on the environment or to make more efficient use of natural resources.*
 - Environmental protection
 - Resource management
- **Primary purpose criterion**



Classification of environmental activities

Group	Classes
I: Environmental protection (EP)	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 (excluding workplace protection)
	6 Protection of biodiversity and landscapes
	7 Protection against radiation (excluding external safety)
	8 Research and development for environmental protection
	9 Other environmental protection activities
II: Resource management (RM)	10 Management of mineral and energy resources
	11 Management of timber resources
	12 Management of aquatic resources
	13 Management of other biological resources (excluding timber and aquatic resources)
	14 Management of water resources
	15 Research and development activities for resource management
	16 Other resource management activities



Which of the following activities are environmental?

- Installation of solar panels to generate electricity
- Buying equipment to measure pollution
- Buying an apartment in an area with less pollution
- Buying mercury free batteries



Environmental activity accounts in SEEA-CF

- Environmental protection expenditure accounts (EPEA)
- Environmental goods and service sector (EGSS)
- Environmental taxes
- Environmental subsidies and similar transfers
- Environmental permits



Environmental goods and service sector: EGSS

- **Supply side** of environmental activities → production of environmental goods and services
- **Aim:** assessing the contribution of EGSS to the total economy and its employment potential
- **Key indicators:**
Total production, total employment, total value added, total exports, total gross fixed capital



Scope and definition

The EGSS consists of producers of all environmental goods and services → Thus, all products that are produced, designed and manufactured for purposes of environmental protection and resource management are within scope of the EGSS.

- Environmental specific services, connected products, adapted goods and environmental technologies
- ‘Main purpose’ criterion (technical nature of product or activity / intension of the producer)



System of Environmental-Economic Accounting

United Nations Statistics Division

		Producers			
		Specialist producers			
		Government producers	Other specialist producers	Non-specialist producers	Own-account producers
Output of environmental goods and services					
Environmental specific services	Environmental protection	3 000	6 500	2 400	1 600
	Resource management	3 100	4 500	300	1 600
Sole-purpose products	Environmental protection			250	
	Resource management			400	
Adapted goods	Environmental protection			1 000	
	Resource management			3 000	
End-of-pipe technologies	Environmental protection	100	200	1 200	100
	Resource management	100	300	1 500	
Integrated technologies	Environmental protection			800	
	Resource management			700	
Total environmental goods and services produced		6 300	11 500	11 550	3 300
Intermediate consumption		3 800	6 500	6 700	1 450
Gross value added		2 500	5 000	4 850	1 850
Compensation of employees		2 100	4 200	4 300	1 500
Gross fixed capital formation		1 500	1 820	1 500	590
Exports of environmental goods and services			200	2 300	
Employment (thousands of people)		120	210	220	80



Methodology: activity approach versus product approach

Product approach: → Identify environmental goods and services in source data

Activity approach: → Identify environmental activities in source data

Data sources: surveys (new or already existing), statistics, SNA, external reports

Netherlands:

→ Many different environmental activities have been identified by Statistics Netherlands as EGSS activities

→ For every activity a specific methodology has been developed in order to compile the data



Overview: activities in EGSS

1) Sewage and refuse disposal services
(ISIC 37-39)



2) Recycling (ISIC 38.3)



3) Wholesale in waste and scrap





Overview: activities in EGSS

- 4) Renewable energy production
- 5) Production of energy saving and sustainable energy systems
- 6) Insulation activities





Overview: activities in EGSS

7) Production of environmental equipment



8) Environmental advise,
environmental engineering



8) Environmental technical
construcion





Overview: activities in EGSS

10) Environmental related inspection



11) Second hand shops



12) Organic agriculture





Overview: activities in EGSS

13) Own account activities

14) Government governance related to the environment

15) Environmental non profit organisations

16) Environmental education





Many different data sources.....

Activity	Main source
Sewage and refuse disposal services	National accounts, supply and use tables
Wholesale in waste and scrap	National accounts, supply and use tables
Environmental related inspection and control	Employment registers
Government governance related to the environment	Environmental Statistics, EPE statistics
Organisations and associations on the environment	Employment registers and business register
Internal environmental activities at companies	Environmental Statistics, EPE statistics
Renewable energy production	Energy Statistics, Renewable energy statistics
Energy saving and sustainable energy systems	Own constructed database and Production Statistics
Insulation activities	National accounts
Organic agriculture	Agriculture statistics, area of organic agriculture
Recycling	National accounts, supply and use tables
Second hand shops	Production Statistics
Water quantity control by waterboards	National accounts, Government accounts
Environmental advice, engineering and other services ¹	Own constructed database and Production Statistics
Industrial environmental equipment ¹	Own constructed database and Production Statistics
Environmental technical construction ¹	Own constructed database and Production Statistics
Environmental related education	Education statistics



Most important data sources

1. **SNA** data → environmental services
2. Own constructed data base of environmental companies plus **production statistics** (PRODCOM), international trade statistics etc.
3. Government statistics
4. Agricultural statistics
5. Labour registers
6. EPEA



Some key issues.....

- International comparison data
 - Scope
 - Methodology
 - Data sources
 - The more effort, the larger the EGSS ?
- Cleaner goods / resource efficient goods
- Integration in EPEA / ReMEA
- Dissemination of the results



Questions ???