

Implementation of SEEA

The case of the Netherlands

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Outline

- Policy needs
- Implementation of SEEA at Statistics Netherlands
- Most recent result: Green growth in the Netherlands

Policy needs

International:

- Green Growth (OECD), Green Economy (UNEP)
- EU2020
- Beyond GDP
- SDI initiatives
- Well-being indicators (OECD)
- Wealth accounting

National:

- Sustainability monitor, Green Growth monitor
- Policy reporting (water, climate change, green jobs etc.)

Conclusions:

1. Most indicators can potentially derived from SEEA
2. Indicators are both stock/flow, physical/monetary oriented

Different data sets

The various SEEA accounts can be grouped into three datasets:

- Minimum required data set
- Recommended data set
- Desired data set

For asset accounting some flexibility in terms of asset coverage is suggested

Minimum required dataset

- Air emission accounts (at least greenhouse gas emissions),
- Water and energy flow accounts (with a key focus on the use table)
- Economy wide material flow accounts
- Mineral and energy resources (in physical and monetary units)
- Environmental expenditure accounts (EPEA)
- Environmental taxes
- Emission permits

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Toelichting hieronder lijkt soms nogal technisch voor Geert
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Implementation of SEEA in the Netherlands: User demands

- **Research institutes:** Netherlands environmental assessment agency (PBL), National water institute, Energy research centre, etc.
- **Policy makers:** ministries of economic affairs, environment and infrastructure
- **Businesses:** Water producers, producers for environmental technology etc.
- International: **Eurostat (legal base)**

Focus for Dutch policy

Climate change

- Greenhouse gas emissions → production and consumption based
- Emission permits
- Adaptation, mitigation expenditure

Water

- Water quality : emissions to water, water quality
- Water quantity: water flows and assets

Materials

- Material consumption, recycling potentials, resource dependency

Green growth

- Indicators for green growth
- Environmental goods and service sector (EGSS)
- Sustainable energy sector (part of EGSS)

Data availability

- No specific surveys, only integration of existing data sources
- Important data sources include:
 - National accounts
 - Emission inventories
 - Energy statistics
 - Trade statistics
 - Government statistics
 - etc.

Implementation of SEEA at Statistics Netherlands: current status

Physical flow accounts and hybrid accounts

- Energy accounts
- Water flow accounts
- Material flow accounts
- Air emission accounts
- Water emission accounts
- Waste accounts

Asset accounts

- Subsoil accounts for natural gas and crude oil

Monetary accounts

- Environmental protection expenditure
- Environmental taxes and subsidies
- Emission permits for CO₂
- Environmental goods and service sector

Most recent result: Publication on green growth

- **OECD green growth strategy**
→ OECD Ministerial council meeting May 2011
- **High national interest**
→ *Ministries of environment and infrastructure, economy and innovation, financing and the National environmental institute*
- Majority of indicators are derived from SEEA
- **Scoring indicators** with respect to their trend towards green growth



Preliminary score of green growth indicators

<i>Group</i>	<i>Indicator</i>	<i>Time series</i>	<i>Trend greening growth</i>	<i>in</i>	<i>Policy targets¹</i>
i Environmental Efficiency	Production-based greenhouse gas intensity	1990-2009			
	Consumption-based greenhouse gas emissions	1996; 2009			-
	Energy efficiency	1990-2009			-
	Renewable energy	1990-2009			
	Surpluses of nutrients	1990-2009			
	Material intensity	1996-2008			-
	Water use intensity	1990-2009			-
	Waste treatment	1985-2008			
ii Natural asset base	Stocks of timber	1990-2005			
	Fish inputs	1996-2008			-
	Natural gas reserves	1990-2010			-
	Land conversion into built-up land	1900-2006	-		-
	Threat to biodiversity	1994-2005			
iii Environmental quality of life	Pollution induced health problems	1980-2000			-
iv Policy responses	Green patents	2000-2006			-
	Share of green taxes	1990-2009			-
	Energy prices	1990-2009	-		-
	Carbon trade	2005-2009	-		-
	Environmental investments	1990-2007			-
	Green jobs	1995-2008			-