

System of Environmental Economic Accounting



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Energy and air emission accounts in the Netherlands



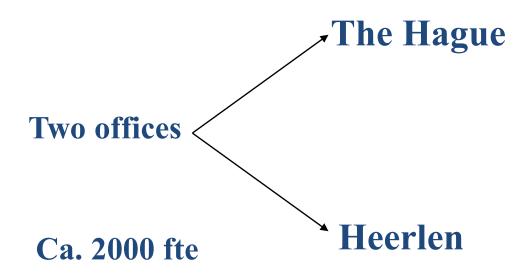
Content

- Statistics Netherlands
- Legal base
- Energy accounts
- Air emission accounts



Statistics Netherlands





Mission Statistics Netherlands:

'To compile and publish undisputed, coherent, current statistical information that is relavant for the society, policy makers and science.

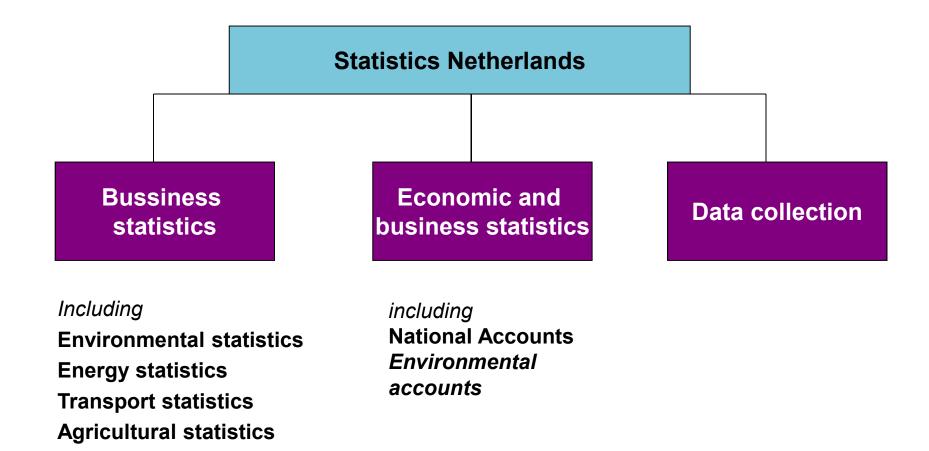








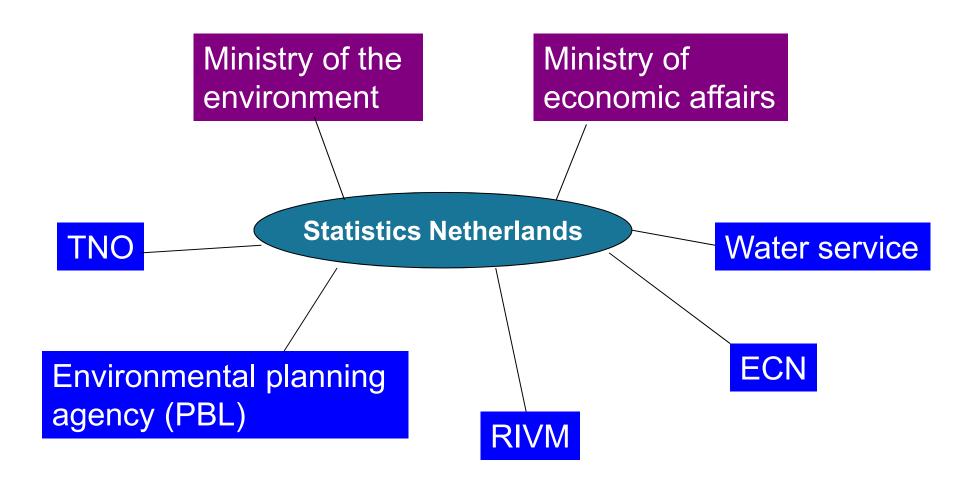
Environmental and energy statistics







Other national institutes involved





Organisation of the environmental accounts



- Department of National accounts: ca. 90 fte
- Environmental accounts: 10 fte (2016)
- Activities: compilation, publication and development
- No surveys: integration of existing statistics and accounts



Present status

e

Physical flow 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
- Environmental goods and service sector



Legal base on environmental accounting in Europe



1) Regulation No 691/2011, passed July 2011, covers 3 modules:

- Air emissions accounts
- Environmentally related taxes by industry
- EW-Material Flow Accounts
- \rightarrow First data transmission: September 2013, from 2008 onwards

2) Regulation No 538/2014, passed in 2014, covers 3 modules:

- Energy flow accounts
- Environmental goods and service sector
- Environmental expenditure
 - \rightarrow First data transmission: 2017, from 2014 onwards



Energy flow accounts in the Netherlands



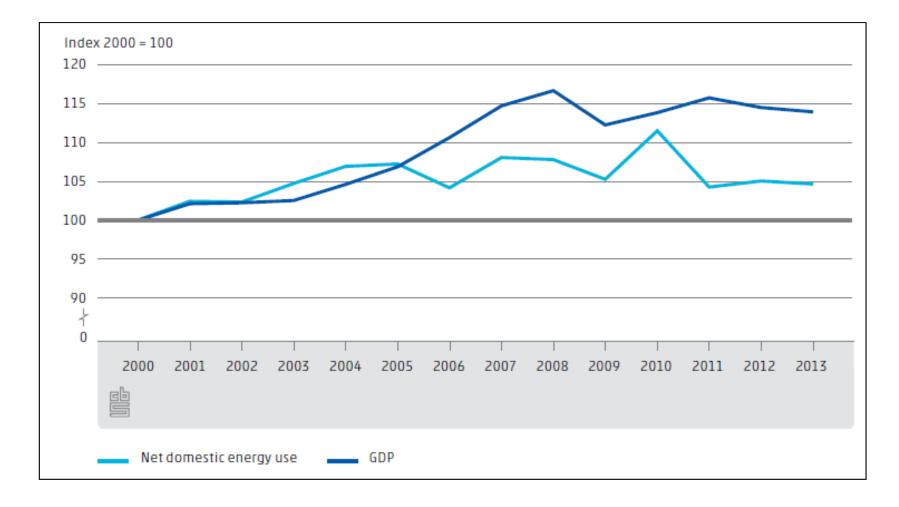


Energy flow accounts in the Netherlands

- Revised in 2012 according to SEEA-CF guidelines
- PEFA tables: new module for EU legal base
 - Supply and use tables (Tables A and B)
 - Emission relevant energy use (Table C)
 - Bridge tables
- Prime data source: Dutch energy balances plus NA
- 2016-2017: PEFA builder
- Classification:
 - 64 industries
 - 30 energy carriers
- \rightarrow Indicators

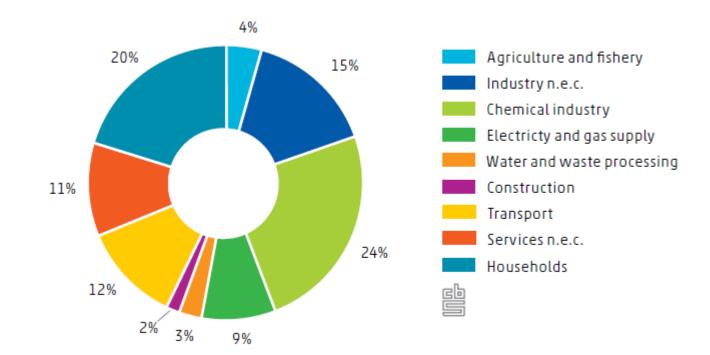


Energy use by companies



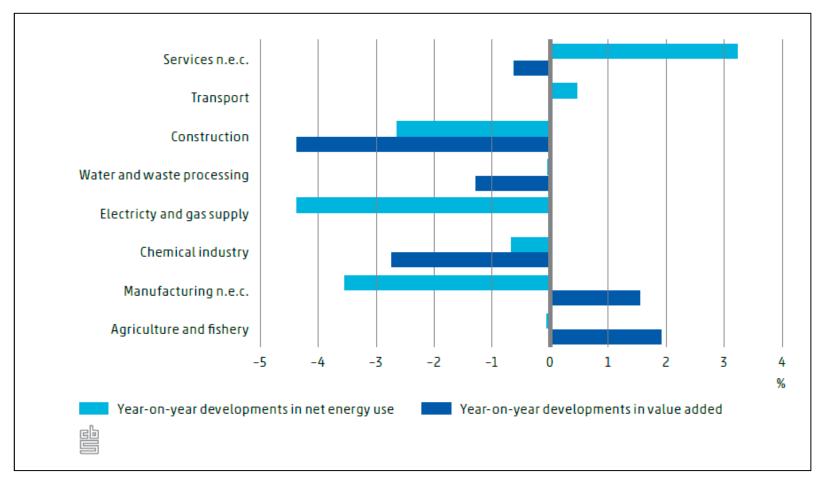


Net energy use in 2013 per sector



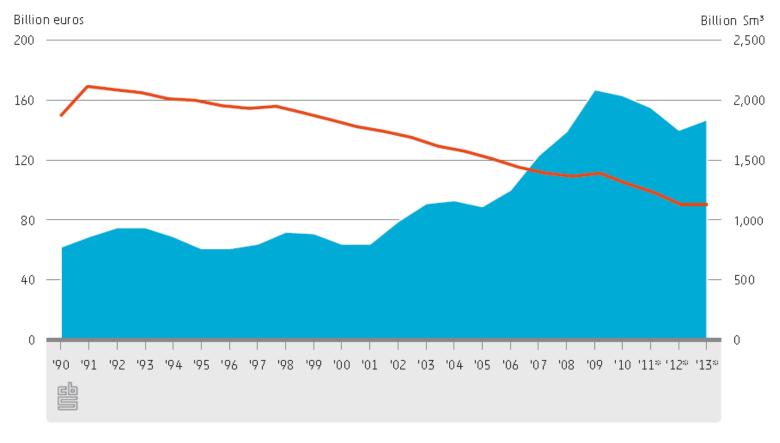


Changes in net energy use and value added per sector over the period 2011–2012





Natural gas resources in the Netherlands in physical and monetary terms



- Opening stock values of gas resources (left axis)
- Remainder of expected producible resources of natural gas on 1 January (right axis)

Sources: TNO / Ministry of Economic Affairs, 1988-2013 and Statistics Netherlands (2013); http://statline.cbs.nl.



Air emission accounts in the Netherlands

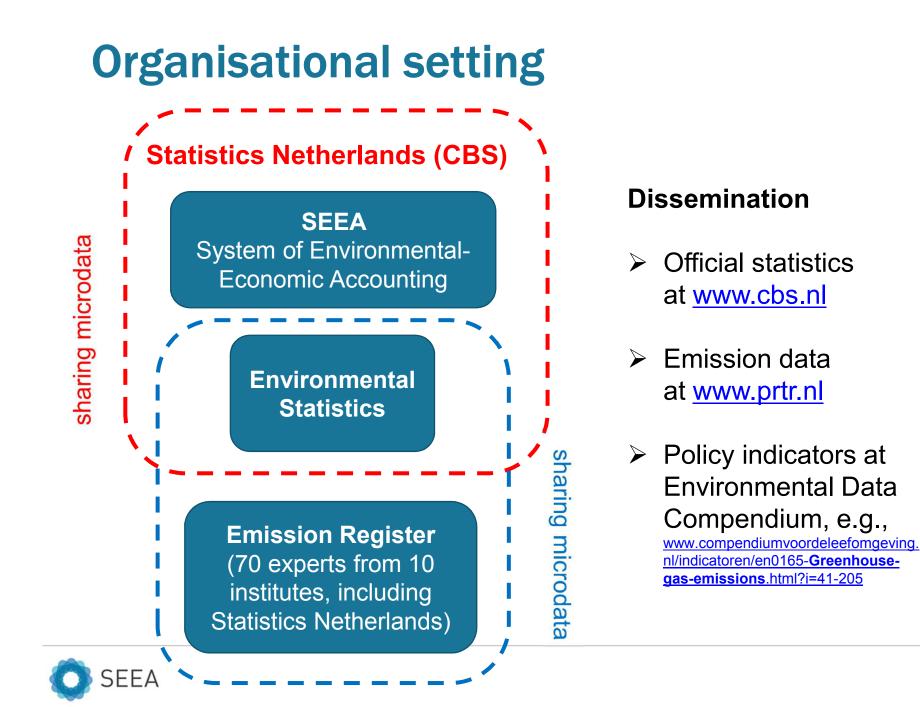




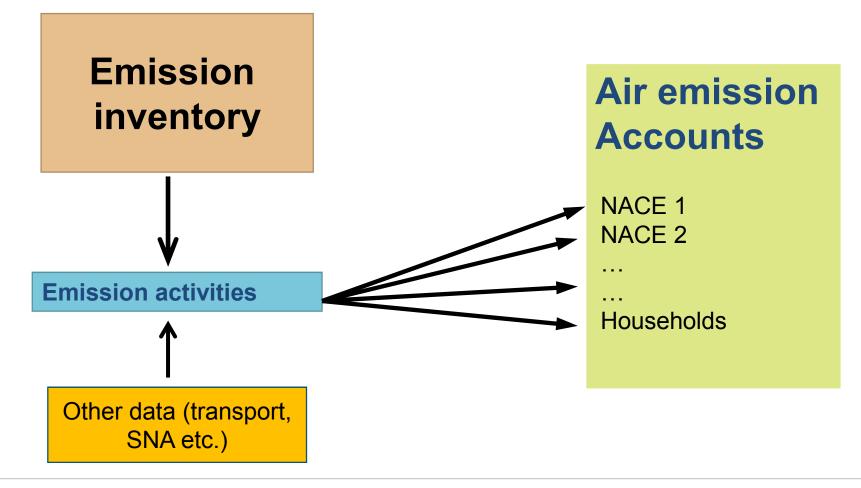












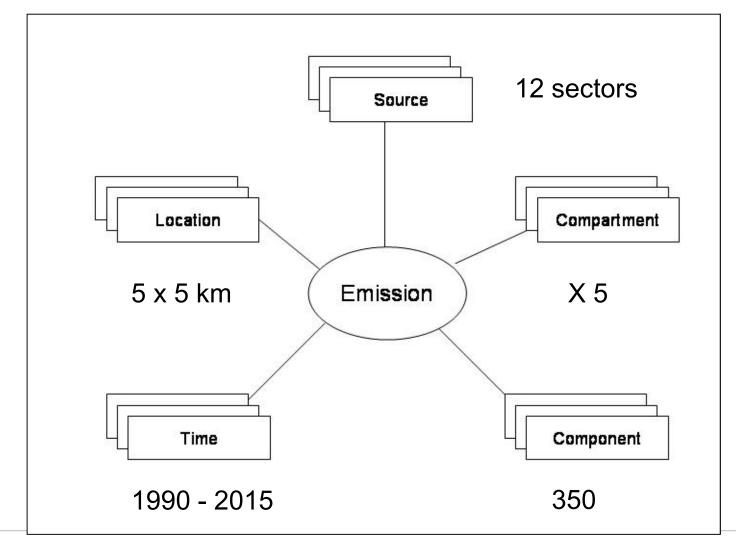


General outline of the Dutch Emission Inventory system (PRTR)

- Contains annual emission data on more than 350 pollutants to air, soil and water
- Covers the **whole process** of collection, processing and reporting of emission data in the Netherlands
- Emissions of diffuse as well as point sources are collected in one **central database**
- Data for all international reports can be withdrawn from the system: Greenhouse gasses monitoring (UNFCCC), EU Water Framework Directive, EU PRTR Directive etc.



Dimensions of emissions in the central database





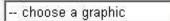
Release & Transfer Register

Introduction

General introduction PRTR How to use this site How to interpret the emissiondata

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Top 10 Graphics



Top 10 Maps



Top 10 Sources

-- choose top 10 sources 📃

Make your graphic or map

Select pollutants, sources ...

Documentation

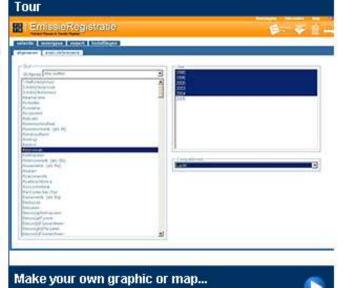
All documents Search in documents Glossary Related links

Release of pollutants to air, water and soil in the Netherlands

This website shows the yearly releases (emissions) of the most important pollutants in the Netherlands. You can explore the emission data through various channels, such as maps, graphs and tables. But you can also download all the details into your own database. More about the use of this website ...

Up to date

The data shown in this website is updated 2 to 3 times a year. The current release shows emissions for 1990, 1995, 2000, 2005, 2006 and 2007 The 2007 emissions are preliminary data and not yet shown in the maps. We expect to add an extra year to the point sources (2007) in Octobre 2008



1a Select pollutant, compartment and year

Information

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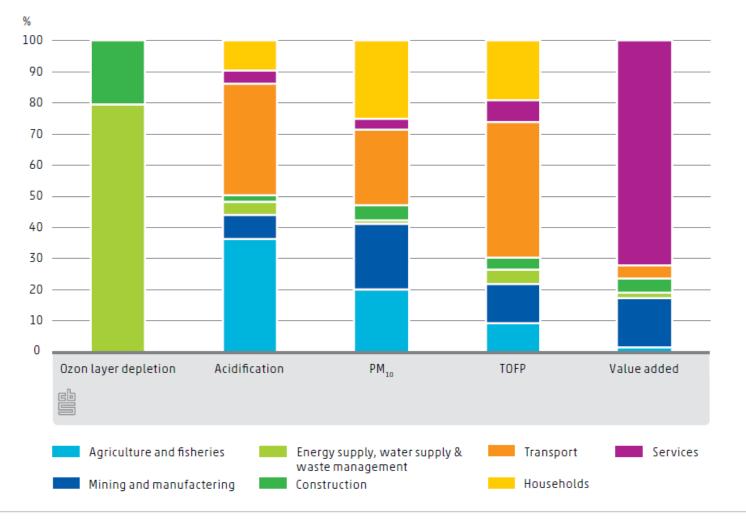
The Netherlands Pollutant Release & Transfer Register

Since 1974 a number of organisations have been working closely together in this pollutant register (PRTR) project to collect and formally establish the yearly releases of pollutants to air, water and soil in the Netherlands. Results of this project serve to underpin the national environmental policy. Data is in this way also provided for the many environmental reports reports to international organisations such as the European Union and the United Nations, e.g. the National Inventory Report for the Kyoto Protocol. More about the Netherlands PRTR

Integration

- Point sources: emission inventory
- Diffuse sources (activity x emission coefficient)
 - →Residence principle
 - International transport and tourism
 - Vehicles: transport statistics (kms driven abroad and in NL) Inland shipping
 - International shipping: National accounts data
 - Air transport: KLM annual report + grossing up based on production statistics
 - →NACE/ISIC:
 - Energy accounts used
 - Behind energy accounts is Dutch energy statistics





3.4.2 Contributions to value added and environmental themes in 2013



Bridge table

	2001	2005	2010	2011	2012	2013*
	Mton CO ₂ equivalents					
1. Stationary sources ¹⁾	184	180	183	169	168	168
2. Mobile sources on Dutch territory	40	41	41	42	41	41
3. Mobile sources according to IPCC	38	39	38	39	37	36
4. Short cyclic CO ₂	8	11	14	14	14	13
5. Total, IPCC (excl. LULUCF) ²⁾ = 1+3-4	213	208	208	194	191	192
6. Land Use, Land-Use Change and Forestry (LULUCF)	3	3	3	3	3	3
7. Total, IPCC (incl. LULUCF) = 5+6 (Kyoto-protocol)	215	211	211	197	195	195
8. Actual emissions in the Netherlands = 1+2	224	221	224	211	209	210
9. Residents abroad	26	26	25	25	26	26
10. Non-residents in the Netherlands	6	7	7	7	7	7
11. Total emissions by residents = 8+9-10	243	241	243	229	228	228

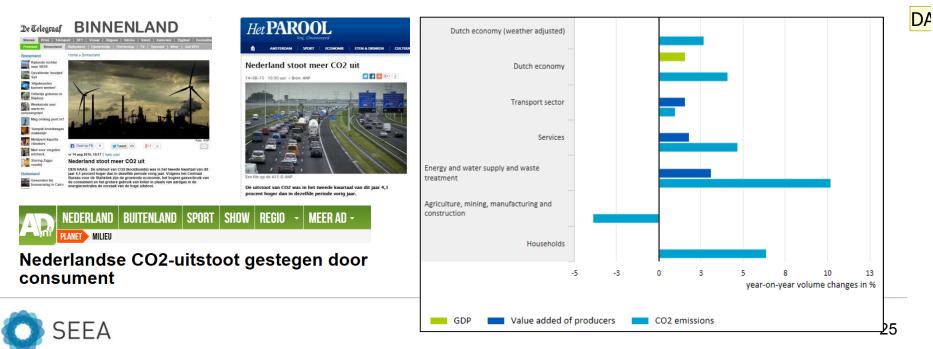


Quarterly CO₂ emissions

Source data:

- Monthly energy data
- National accounts data
- Other

Changes in CO2 emissions, second quarter of 2015



DA1 Optie is om ergens op de slide de volgende hyperlink toe te voegen:

http://www.unece.org/fileadmin/DAM/stats/pr/Netherlands_press_release.pdf

Bijvoorbeeld door krantenknipsels iets op te tillen en daaronder te plaatsen. Denneman, A.I.M., 20/08/2015

Dissimination

- Statline (electronic database)
 - → <u>http://statline.cbs.nl/statweb/?LA=en</u>
- Website

→ <u>https://www.cbs.nl/en-gb/society/nature-and-</u> environment

- Data for Eurostat + reports
- Several publications
 - \rightarrow Annual publication on
 - environmental accounts
 - \rightarrow Publication on green growth

