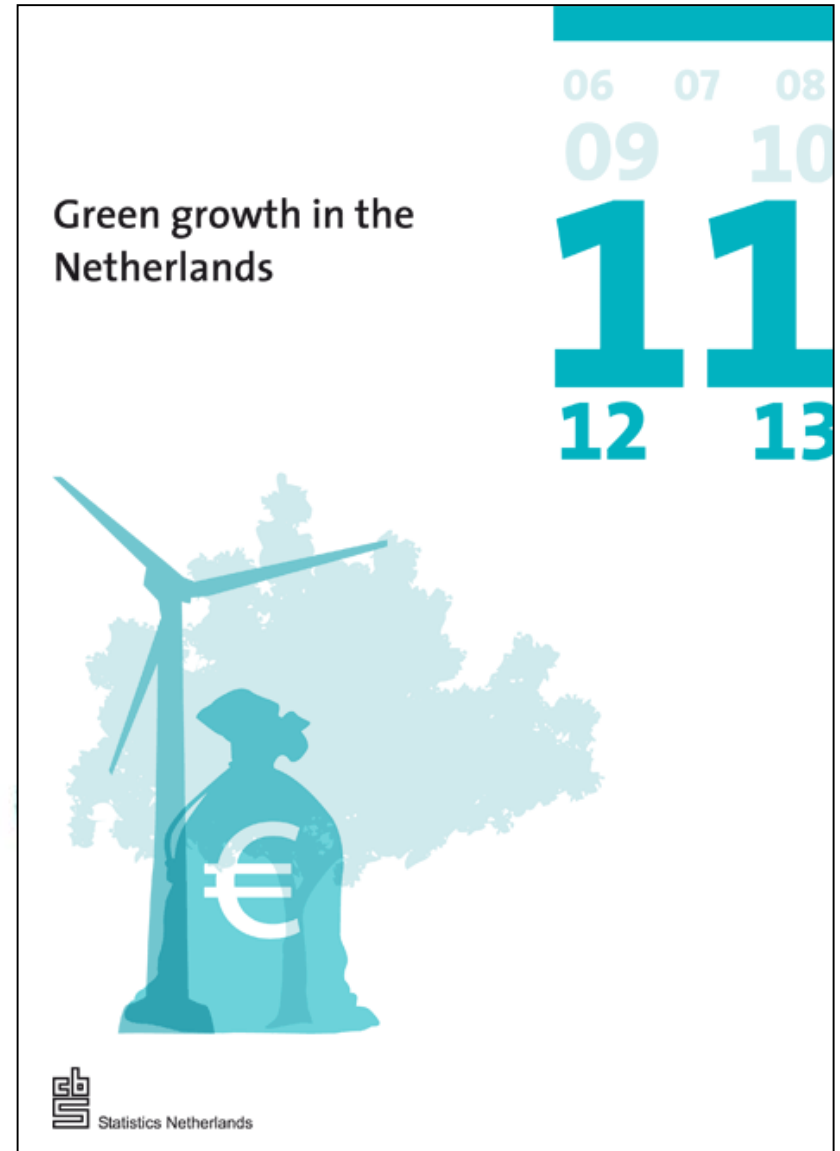


Green Growth in the Netherlands

Sjoerd Schenau

*Department of National accounts
Statistics Netherlands*



Content

- Aim of this study
- Monitoring Green growth
- Data availability
- Results
- Presentation and preliminary scores
- Conclusions and future plans

Why this initiative ?

- **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*
- **Highlighting statistical data**
 - Environmental accounts, environmental statistics etc.

Aim

- Overview of state of green growth in the Netherlands
- Comprehensive overview
- First impression of data availability for green growth indicators
- Only aggregated Indicators (no disaggregation for industries etc.)
- Scoring indicators with respect to their trend towards green growth
- Point of departure for a more thorough and comprehensive assessment of green growth

OECD Green Growth

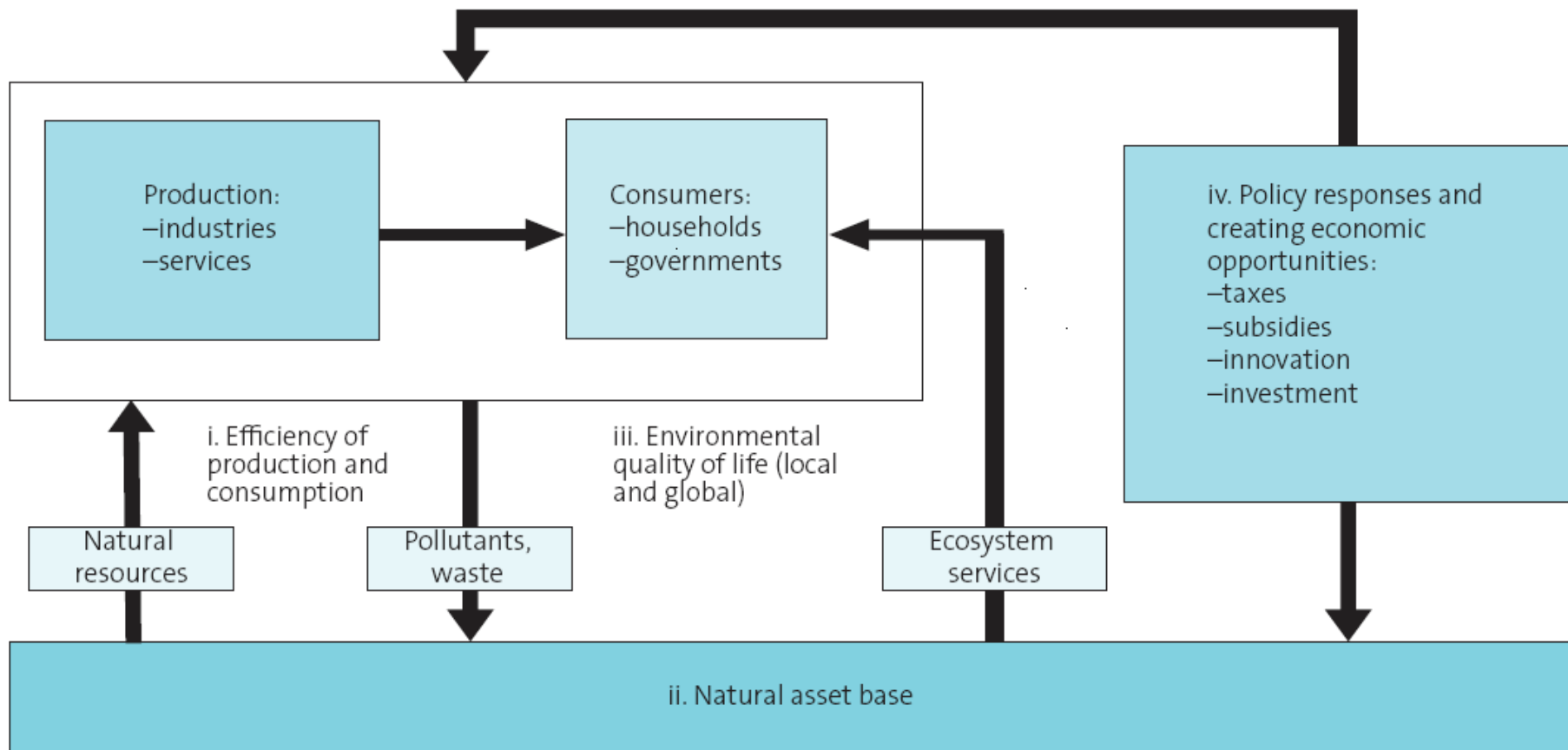
Definition:

“fostering economic growth and development while ensuring that the quality and quantity of natural assets can continue to provide the environmental services on which our well-being relies. It is also about fostering investment, competition and innovation which will underpin sustained growth and give rise to new economic opportunities (OECD, 2011).”

Framework of four interrelated group of indicators:

- (i) indicators reflecting the environmental efficiency of production
- (ii) indicators of the natural asset base
- (iii) indicators monitoring the environmental quality of life
- (iv) indicators describing policy responses and economic opportunities

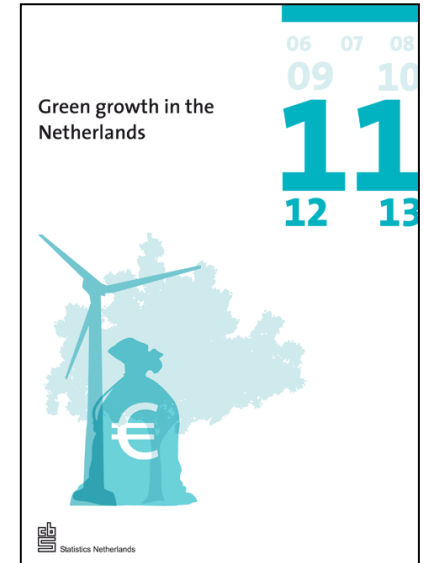
Conceptual scheme Green Growth



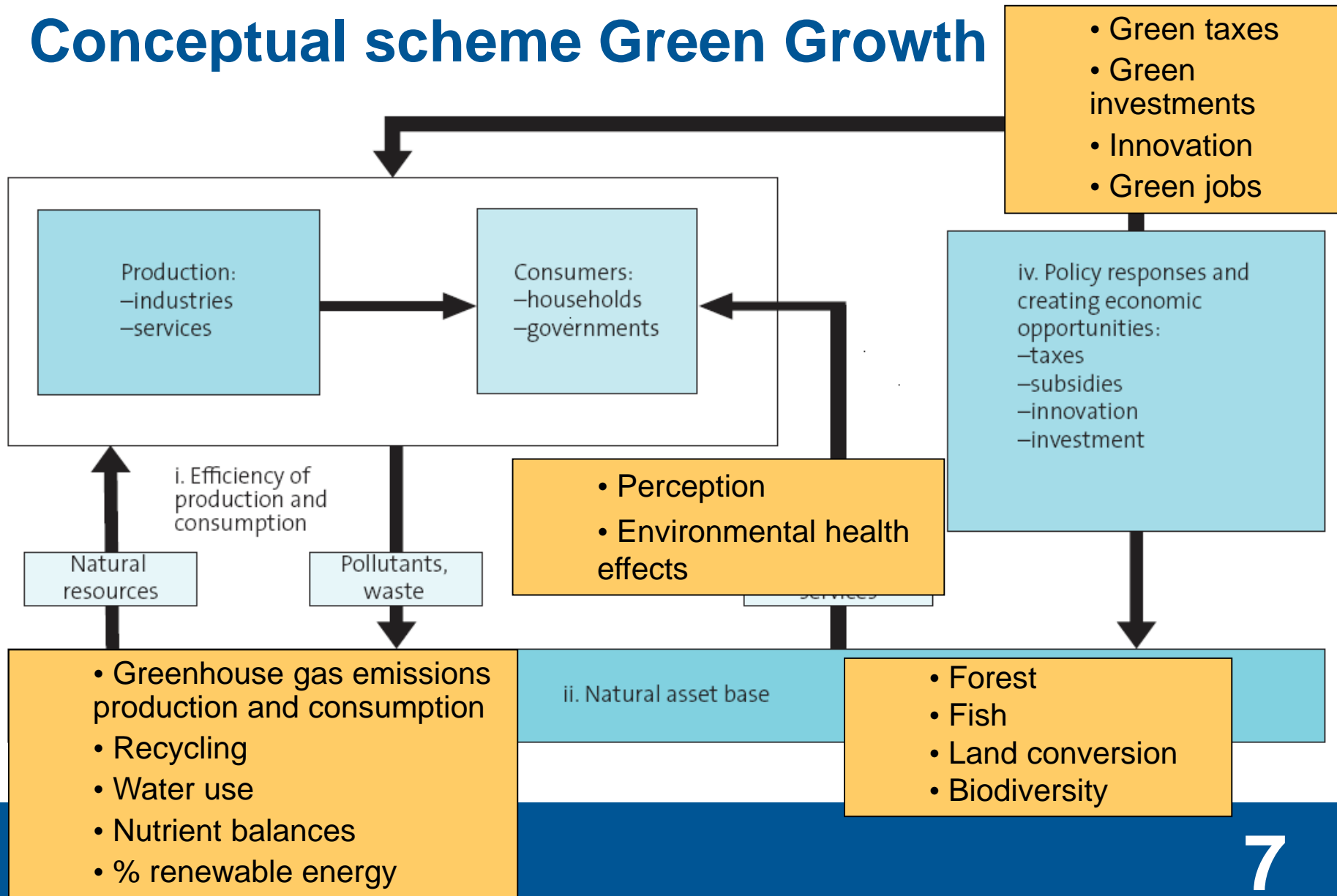
Selecting the indicators

- Point of departure: **OECD indicators**
- Data availability
- Robustness
- Relevance for the Netherlands

→ **List of 20 relevant indicators**



Conceptual scheme Green Growth

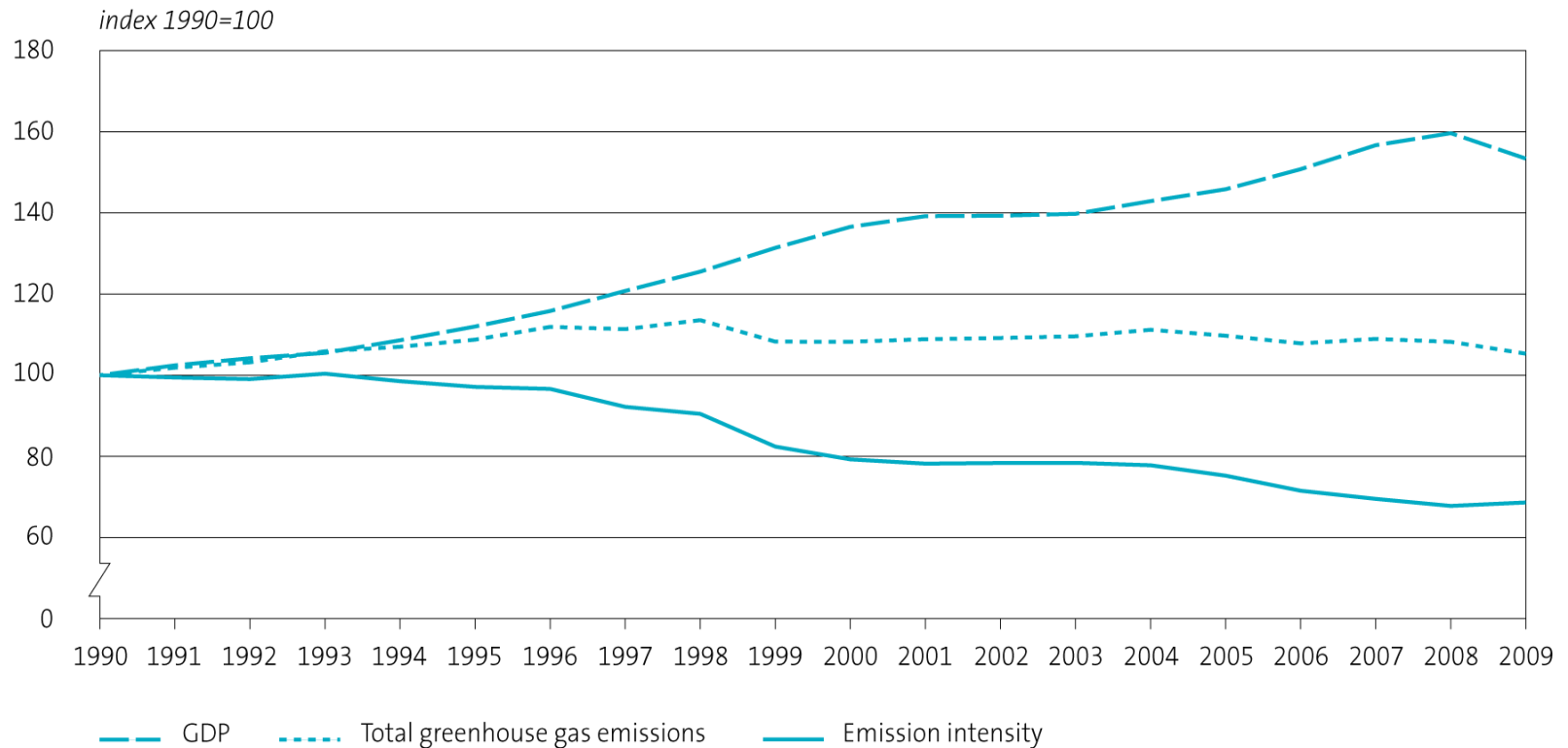


Data sources

| <i>Group</i> | <i>Indicator</i> | <i>Environmental accounts</i> | <i>Environmental and energy statistics</i> | <i>Other</i> |
|-----------------------------------|---|-----------------------------------|--|--------------|
| i Environmental Efficiency | Production-based greenhouse gas intensity | X | | |
| | Consumption-based greenhouse gas | X | | |
| | Energy efficiency | X | | |
| | Renewable energy | | X | |
| | Surpluses of nutrients | | X | |
| | Material intensity | X | | |
| | Water use intensity | X | | |
| | Waste treatment | X | | |
| ii Natural asset base | Stocks of standing timber | X | | |
| | Fish inputs | X | | |
| | Natural gas reserves | X | | |
| | Land conversion into built-up land | | X | |
| | Threats to biodiversity | | X | |
| iii Environmental quality of life | Pollution induced health problems | | | X |
| iv Policy responses | Green patents | | | X |
| | Share of green taxes | X | | |
| | Energy prices | X | | |
| | Carbon trade | X | | |
| | Environmental investments | X | | |
| | Green jobs | X | | |

Efficiency of Production/Consumption – (1)

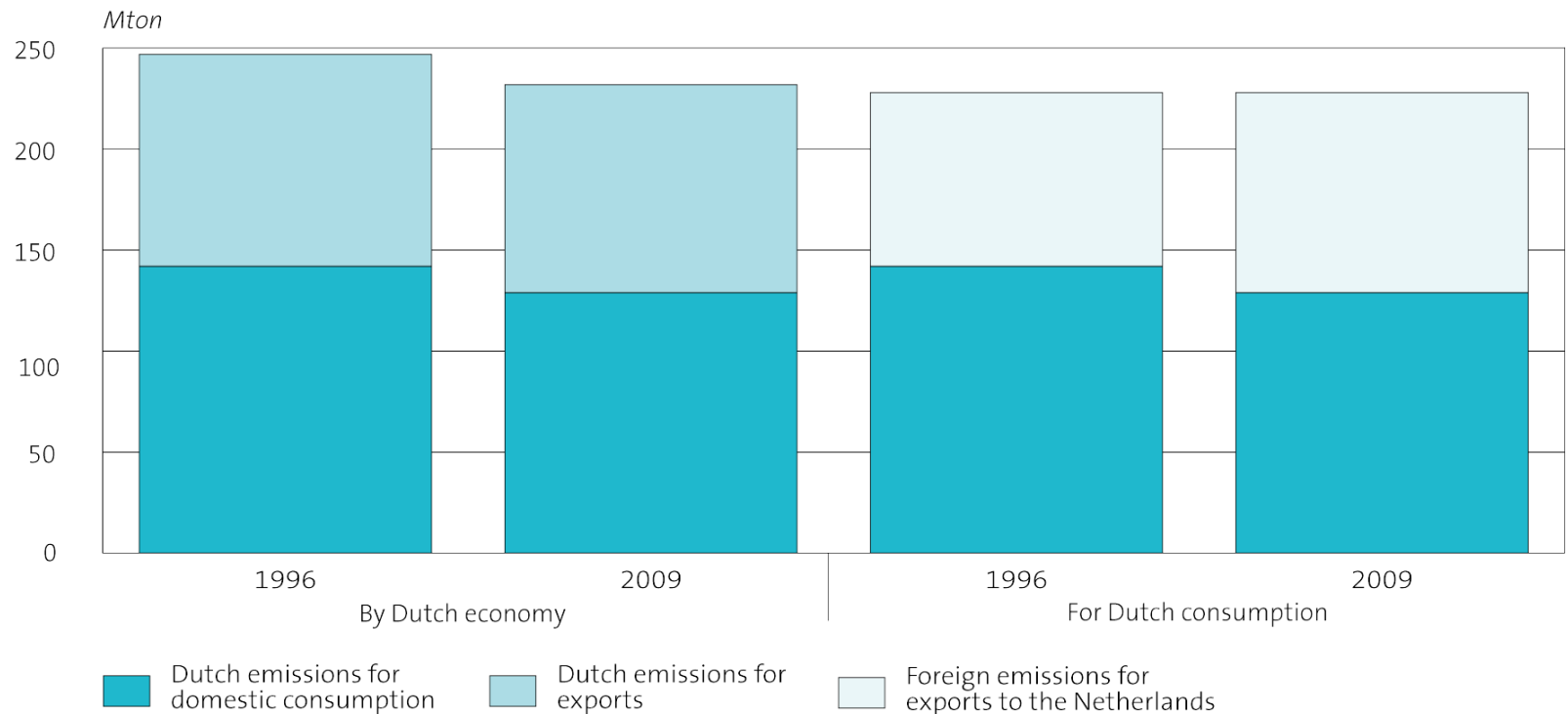
2.1.1 Greenhouse gas emission intensity, total emissions and GDP



Source: Statistics Netherlands, Environmental accounts of the Netherlands 2009.

Efficiency of Production/Consumption – (2)

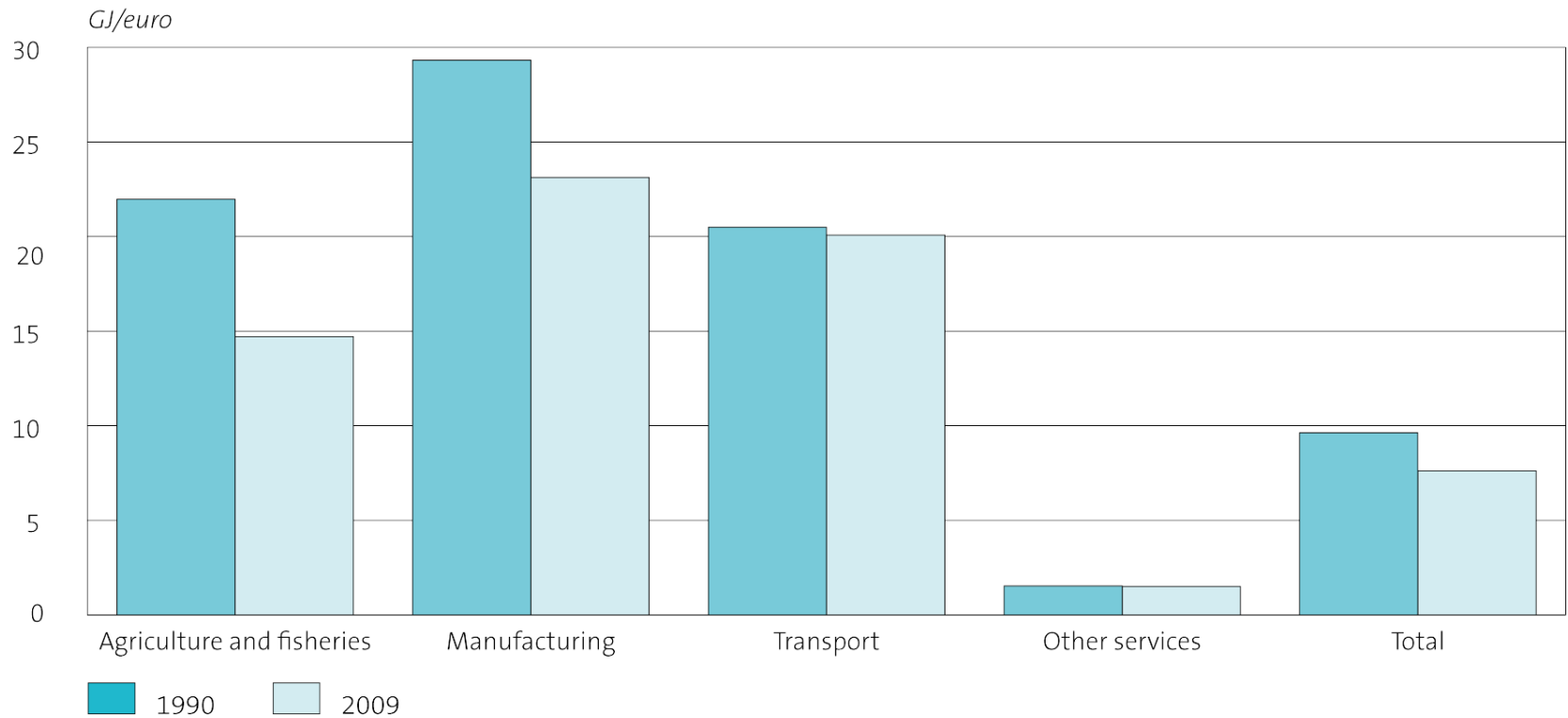
2.2.1 Greenhouse gas emissions from production and consumption



Source: Statistics Netherlands, Environmental accounts of the Netherlands 2009.

Efficiency of Production/Consumption – (3)

2.3.1 Energy intensity of selected industries and the total economy



Source: Statistics Netherlands, Environmental accounts of the Netherlands 2009.

Policy responses and economic opportunities

5.6.1 Green jobs and their share in total employment



Source: Statistics Netherlands, Environmental accounts of the Netherlands 2009.

Presentation and preliminary scores

Two scores:

A) *trends in greening growth*













Environmental efficiency indicators: based on degree of decoupling (absolute / relative / no decoupling)

Other indicators: evaluation of their trends

B) *policy targets*



















→ based on publication of the Environmental assessment agency

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 |  | |  |



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> | |
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| | | Consumption-based greenhouse gas emissions | 1996; 2009 |  | - | - |
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| | | 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 |  | - |  |



Preliminary score of green growth indicators

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| | | Carbon trade | 2005-2009 | - | - |
| | | Environmental investments | 1990-2007 | | - |
| | | Green jobs | 1995-2008 | | - |

Feedback on Dutch Green Growth publication

Many positive reactions !

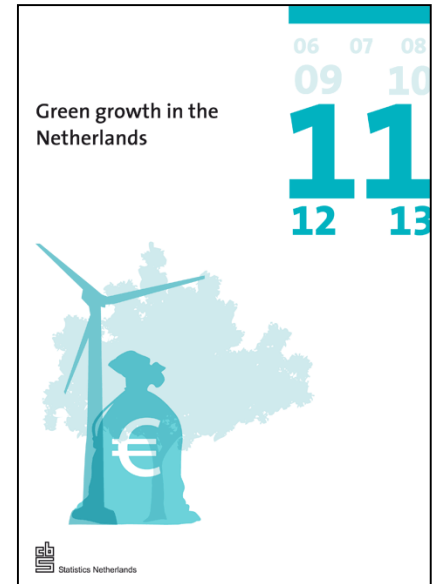
Some critical remarks:

- International benchmarking
- Preliminary scoring
- Policy assessment
- More in depth analysis
- Headline indicators ?



Conclusions

- High interest by policy makers
- Data availability for the Netherlands is good
→ *Periodical monitoring is possible*
- SEEA can provide the majority of indicators
- Interpretation indicators clear for most indicators
- No specific policy targets for many indicators
- International benchmarking very important



Future plans

- Continuation of monitoring Green growth
- International benchmarking
- Dialogue with stakeholders
- Work on new relevant statistics
 - Consumption based indicators
 - Material use
 - Facilitate policy evaluation
 - Sector analysis

Questions?