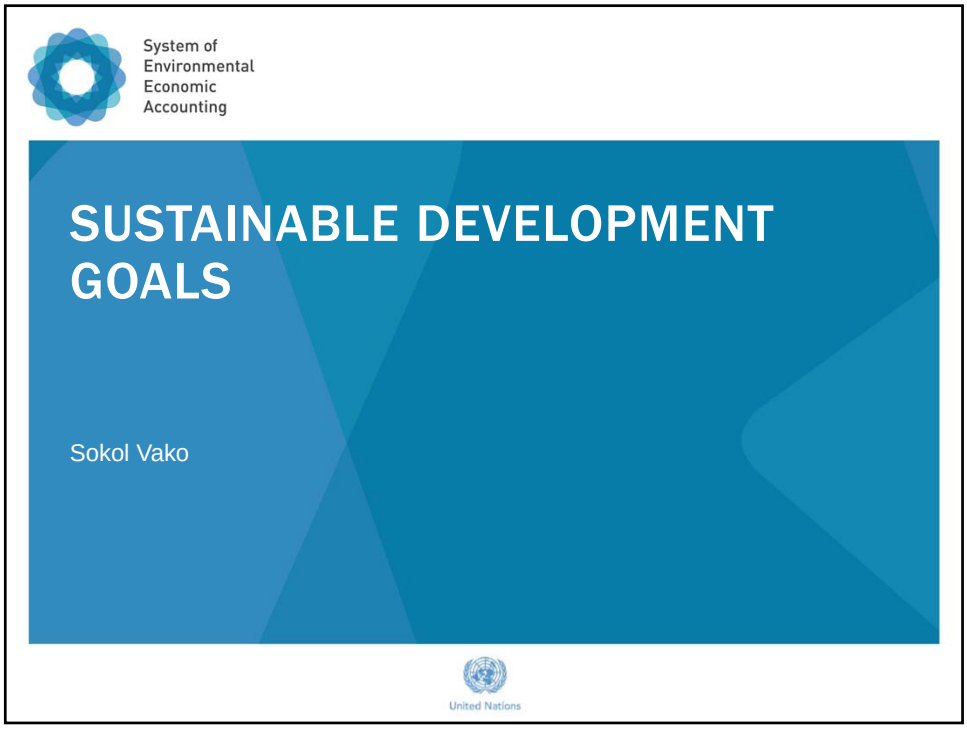

System of
Environmental
Economic
Accounting


System of
Environmental
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SUSTAINABLE DEVELOPMENT GOALS
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United Nations

## Content

- Sustainable Development Goals—broad overview
- Sustainable Development Goal 6 on Water
- Sustainable Development Goal 7 on Energy
- Other SDGs
- SEEA in support of Sustainable Development Goals

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## BROAD OVERVIEW

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## The political process

- 1992: Agenda 21 (Rio)
- 2002: World Summit on Sustainable Development
- 2012: The Future we Want (Rio+20)
- 2015: Sustainable Development Goals

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## SDG Indicators


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# GOAL 6 ON WATER

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## Goal 6-Targets and indicators

| Target | Indicator |
|---|---|
| 6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally | 6.3.1 Proportion of wastewater safely treated<br>6.3.2 Proportion of bodies of water with good ambient water quality |

$$Indicator\ 6.3 = \frac{Total\ return\ flows\ after\ treatment}{Total\ wastewater\ sent\ to\ sewerage\ industry}$$

- Numerator should include at least primary, secondary and tertiary treatment
- IRWS contains the relevant details on the data items
- Breakdown by ISIC

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## Goal 6-Targets and indicators

| Target | Indicator |
|---|---|
| 6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity | 6.4.1 Change in water-use efficiency over time<br><br>6.4.2 Level of water stress: freshwater withdrawal as a proportion of available freshwater resources |

$$Indicator\ 6.4.1 = \frac{total\ water\ use}{value\ of\ economic\ output}$$

- Total Water Use is the sum of water abstraction across economic activities plus water that is received from foreign economic units.
- Value added from national accounts
- Breakdown by ISIC

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## Goal 6-Targets and indicators

| Target | Indicator |
|---|---|
| 6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity | 6.4.1 Change in water-use efficiency over time<br><br>6.4.2 Level of water stress: freshwater withdrawal as a proportion of available freshwater resources |

$$Indicator\ 6.4.2 = \frac{Total\ Water\ Withdrawal}{Total\ Renwewable\ Water\ Resources}$$

- Total renewable freshwater resources (TRWR) are expressed as the sum of internal and external renewable water resources
- Total water withdrawal can be broken down by ISIC sectors; this in and of itself can be used to track water use by sectors over time

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# GOAL 7 ON ENERGY

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## Goal 7-Targets and indicators

| Target | Indicator |
|---|---|
| 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix | 7.2.1 Renewable energy share in the total final energy consumption |

$$Indicator\ 7.2.1 = \frac{consumption\ of\ energy\ from\ all\ renewable\ sources}{total\ final\ energy\ consumption}$$

- Renewable energy consumption includes consumption of energy derived from: hydro, solid biofuels, wind, solar, liquid biofuels, biogas, geothermal, marine and waste.
- Total final energy consumption is calculated from national balances and statistics as total final consumption minus non-energy use.

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## Goal 7-Targets and indicators

| Target | Indicator |
|---|---|
| 7.3 By 2030, double the global rate of improvement in energy efficiency | 7.3.1 Energy intensity measured in terms of primary energy and GDP |

$$Indicator\ 7.3 = \frac{energy\ supplied\ to\ the\ economy}{value\ of\ economic\ output}$$

- Total energy supply is comprised of production plus net imports minus international marine and aviation bunkers plus-stock changes
- Gross Domestic Product (GDP) is the measure of economic output

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## OTHER SDGS

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## A small list of other SEEA relevant SDGs

- 8.4 Resource productivity
  - 8.4.1 Material footprint, material footprint per capita, and material footprint per GDP
  - 8.4.2 Domestic material consumption, domestic material consumption per capita, and domestic material consumption per GDP
  - Material Flow Accounts
- 15.1 Forest area
  - 15.1.1 Forest area as a proportion of total land area
  - 15.1.2 Proportion of important sites for terrestrial and freshwater biodiversity that are covered by protected areas, by ecosystem type
  - Land accounts and ecosystem accounts

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## SEEA in support of Sustainable Development Goals

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## Aligning with the SEEA

- There is ongoing work to align SDG indicators with the SEEA
- Focus is on the 2020 Comprehensive Review

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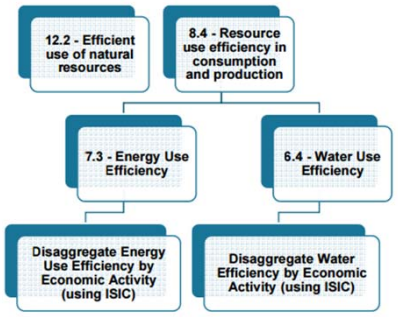
## Integrated architecture for SDGs

Integrated monitoring for the SDGs requires methodological consistency.

The SEEA can be the basis for:

1. The development of coherent environmental-economic SDG indicators
2. The disaggregation of SDG indicators to inform national policy (spatial, sectoral, etc.)

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# THANK YOU

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