Dashboard on scaling up green finance

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This document was prepared by the “Scaling up Green Finance” workstream of the NGFS, chaired by Dr Sabine Mauderer from the Deutsche Bundesbank.
Dashboard on scaling up green finance

- The dashboard on scaling up green finance is based on a set of ideal indicators that makes it possible to track and understand the greening of national financial systems. It is a first attempt to catalogue desirable series that allow the evolution, change and trend of a phenomenon (rather than its absolute level) to be analysed.

- Furthermore, while the dashboard is presented at an aggregate level, it is intended for use at the jurisdictional level. To this end, the dashboard includes graphs for aggregate regions on the left and basic metadata on the right that describe the country coverage and provide sources where these data and further breakdowns can be found, i.e. links to mostly interactive websites.

- Possible sources of data were identified, at least partially, for 21 indicators. Moreover, the dashboard is accompanied by a note that introduces the dashboard and highlights data gaps, in particular; i.e. “must-have” indicators for which sources have not yet been identified. This is the case for 9 additional indicators.

- The dashboard including metadata with the charts as separate graphics files and a structured Excel file with the source data for the charts is self-containing.
## Dashboard on scaling up green finance

### Real economy
1. Carbon emissions
2. Carbon pricing initiatives
3. Renewable energy consumption
4. Environmentally related tax revenue
5. Fossil fuel subsidies
6. Environmentally motivated subsidies
7. National expenditure on environmental protection

### Reporting
1. Companies and other organisations committed to supporting TCFD
2. TCFD-aligned market capitalisation and total assets

### Risk
1. Natural resources rents
2. Net forest depletion
3. Economic losses from climate-related extremes
4. Vulnerability to climate change and readiness to improve resilience

### Mobilisation
1. Volumes of green bonds issued and maturing: Total
2. Volumes of green bonds issued and maturing: Governments and supranationals
3. Volumes of green bonds issued and maturing: Financial institutions
4. Volumes of green bonds issued and maturing: Utilities and power generation companies
5. Volumes of social bonds issued and maturing: Total
6. Total global climate finance flows

### Regulation
1. Responsible investment-related policy instruments

### Global initiatives
1. Principles for Responsible Investment signatories
Carbon emissions

**Link:** Global Carbon Atlas

**Code:** (Territorial)

**Countries:** 221

**Periods:** 1971 – 2019 (annual)

**Comments:** Carbon dioxide emissions attributed to the country in which they physically occur. Data for 2018 and 2019 preliminary.
Carbon pricing initiatives

**Link:** [Carbon Pricing Dashboard](#)

**Code:** (Implemented)

**Countries:** 45 (33 sub-national)

**Periods:** 1990 – 2020 (annual)

**Comments:** Prices not necessarily comparable across carbon pricing initiatives.
Renewable energy consumption

**Link:** World Development Indicators

**Code:** EG.FEC.RNEW.ZS

**Countries:** 217

**Periods:** 1990 – 2015 (annual)

**Comments:** None.
Environmentally related tax revenue

**Link:** [Policy Instruments for the Environment](#)

**Code:** (Taxes/Fees/Charges – Revenues generated)

**Countries:** 107

**Periods:** 1994 – 2019 (annual, microdata)

**Comments:** Summary statistics available from the [OECD data warehouse](#) (code: ERTR).
Fossil fuel subsidies

Link: Fossil Fuel Subsidies

Code: (Values)

Countries: 42

Periods: 2010 – 2019 (annual)

Comments: Complementary data available from the OECD data warehouse (code: FFS_INDICATOR_DETAILED).
Environmentally motivated subsidies

Link: Policy Instruments for the Environment

Code: (Environmental Subsidies – Annual cost)

Countries: 29

Periods: 1990 – 2018 (annual, microdata)

Comments: Database appears to be incomplete, particularly at the end (but also at the beginning).
Expenditure on environmental protection

Link: Environmental Protection Expenditure Accounts

Code: EPEA

Countries: 27 (in national currency)

Periods: 2004 – 2018 (annual)

Comments: Database appears to be incomplete, except for the years 2014 to 2017.

Source: OECD, 1 Euro area excluding Cyprus and Malta. Network for Greening the Financial System
Companies and other organisations committed to supporting TCFD

- **Link:** TCFD supporters

- **Code:** (Number of supporters)

- **Countries:** 70

- **Periods:** 2017 – 2020 (monthly, microdata)

- **Comments:** None.

*Source: TCFD. Network for Greening the Financial System*
TCFD-aligned market cap and total assets

**Link:** Not applicable

**Code:** Not applicable

**Countries:** Not applicable

**Periods:** 2017 – 2020 (irregular)

**Comments:** Market capitalisation and total assets of financial institutions published irregularly in status reports and press releases.
Natural resources rents

Link: World Development Indicators

Code: NY.GDP.TOTL.RT.ZS

Countries: 217

Periods: 1970 – 2018 (annual)

Comments: Sum of oil rents, natural gas rents, coal rents (hard and soft), mineral rents, and forest rents.
Net forest depletion

Link: World Development Indicators

Code: NY.ADJ.DFOR.GN.ZS

Countries: 217

Periods: 1970 – 2018 (annual)

Comments: Calculated as the product of unit resource rents and the excess of roundwood harvest over natural growth.
Losses from climate-related extremes

Link: EM-DAT database

Code: (Natural disasters: meteorological, hydrological, climatological)

Countries: 230

Periods: 1900 – 2020 (microdata)

Comments: Database appears to be incomplete, in particular regarding insured losses, and unbalanced in coverage.
Vulnerability and readiness

Link: [ND-GAIN Country Index](#)

**Code:** (Vulnerability, Readiness)

**Countries:** 192

**Periods:** 1995 – 2018 (annual)

**Comments:** Index is a composite indicator. World Bank regional averages weighted by population.
Green bonds: Total

Link: Global market for sustainable finance

Code: Not applicable

Countries: 6 continents

Periods: 2007 – 2020 (annual)

Comments: Labelling not perfectly aligned with the Green Bond Principles. Microdata can be sourced against a paid subscription.
Green bonds: Governments

**Link:** Global market for sustainable finance

**Code:** Not applicable

**Countries:** 6 continents

**Periods:** 2007 – 2020 (annual)

**Comments:** Labelling not perfectly aligned with the Green Bond Principles. Microdata can be sourced against a paid subscription.
Green bonds: Financial institutions

**Link:** [Global market for sustainable finance](#)

**Code:** Not applicable

**Countries:** 6 continents

**Periods:** 2007 – 2020 (annual)

**Comments:** Labelling not perfectly aligned with the Green Bond Principles. Microdata can be sourced against a paid subscription.
Green bonds: Utilities & power generation

**Link:** [Global market for sustainable finance](#)

**Code:** Not applicable

**Countries:** 6 continents

**Periods:** 2007 – 2020 (annual)

**Comments:** Labelling not perfectly aligned with the Green Bond Principles. Microdata can be sourced against a paid subscription.
Social bonds: Total

Link: Global market for sustainable finance

Code: Not applicable

Countries: 6 continents

Periods: 2007 – 2020 (annual)

Comments: Labelling not perfectly aligned with the Social Bond Principles. Microdata can be sourced against a paid subscription.
Total global climate finance flows

**Link:** Global Landscape of Climate Finance

**Code:** Not applicable

**Countries:** 10 regions

**Periods:** 2013 – 2018 (biennial/annual)

**Comments:** Selected further aggregates are available for actor breakdowns, uses, and instruments.
PRI regulations

Link: PRI regulation database

Code: (Policy Status: Issued)

Countries: 84

Periods: 1930 – 2020 (microdata)

Comments: Data grouped by type of policy; who has issued it; who it is applicable to; and whether it is voluntary or mandatory.

Source: PRI. Network for Greening the Financial System
PRI signatories

**Link:** [About the PRI](#)

**Code:** (Total)

**Countries:** 80

**Periods:** 2006 – 2020 (annual)

**Comments:** Daily microdata on PRI signatories available from the [PRI signatory directory](#).