

# The Bundesbank's Sustainable Finance Data Hub

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# Sustainable Finance Data Hub

- To enable climate related analytical work within the Bundesbank, a **central data hub** to collect climate related data was set up in early 2020. The Sustainable Finance Data Hub is tasked with examining market data that serve **inter-divisional and permanent needs** within the Bundesbank.
- The Data Hub is a **specialized unit** within the statistics directorate, serving varying user needs within the central bank.
- Data is provided through a the **central data base** and access to this data can be requested at the data hub. It is also the **first contact point** for any methodological questions.
- In addition, we **contribute to public data availability and international climate-related data discussions** through our website, a conference and participation in international fora (such as the Network on Greening the Financial System WS Bridging Data Gaps and IFC sustainable finance work).

## Procurement of micro data from external providers

- Currently, we are in a **market exploration** phase for climate related data. Since December 2020, data from two private data providers are available bank-wide.
- We acquired a variety of climate-related indicators, most notably **greenhouse gas emissions**, ESG ratings and their underlying sub ratings. Other indicators include carbon risk, temperature alignment, screening criteria etc.
- Market exploration for geospatial tools on physical risk indicators currently under way.
- We follow a **multi-indicator approach**, since various data providers measuring the same or closely related phenomena reveal measurement uncertainty. In addition, the diverse user needs call for a comprehensive set of indicators and data source to analyse climate risk.

# Multi-indicator approach

## Data source / Data provider

- Multitude of providers
- Differing in methodology, coverage and results



Various data providers measuring the same or closely related phenomena reveal measurement uncertainty.

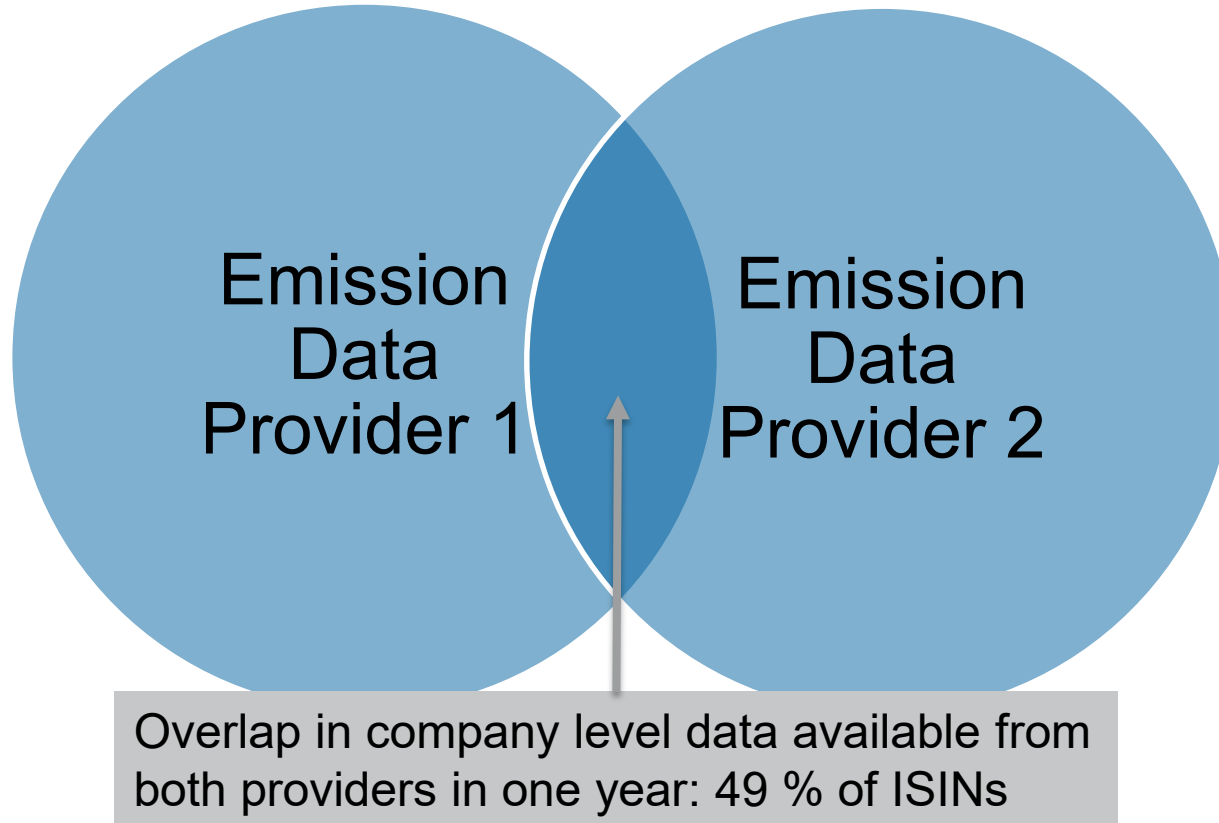
## Analytical and policy use

- Macroeconomic
- Macro-prudential
- Micro-prudential
- etc.



Diverse user needs call for a comprehensive set of indicators and data source to analyse climate risk.

**Multi-indicator approach:  
Provides greater coverage**

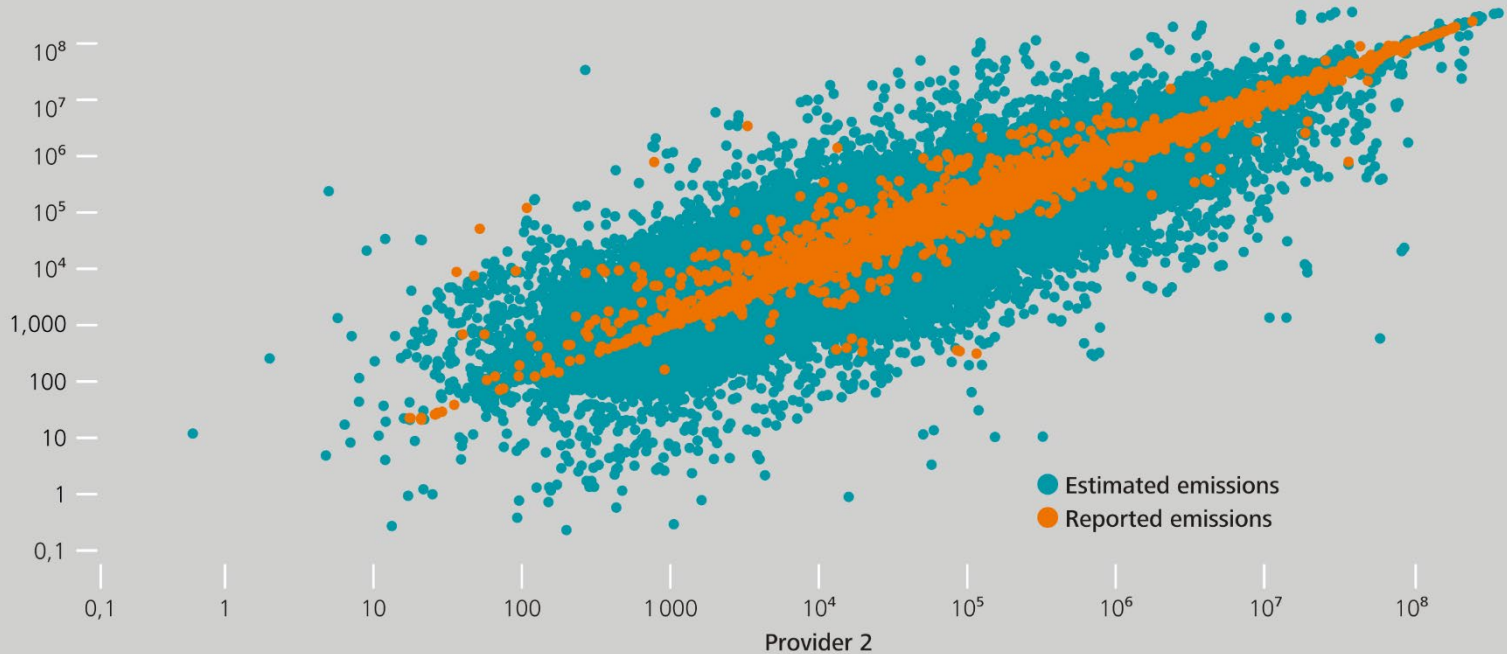


# Multi-indicator approach: Allows for robustness checks

## Comparison of greenhouse gas emissions (scope 1 + 2) from two providers

Tonnes of CO<sub>2</sub> equivalents, log scale

Provider 1



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SOPR0019.Chart

# Contribution to increase public climate data availability: Sustainability Statistics [website](#) including green finance dashboard

## Green finance dashboard

### Financial indicators

- Volume of green bonds issued in Germany and the EU-27
- Volume of green bonds maturing in Germany and the EU-27
- National expenditure on environmental protection in Germany and the EU-27
- European contribution to the international US\$100 billion commitment on climate related expending
- Environmental tax revenues in Germany and the EU-27
- Fossil fuel support in Germany and the EU-27

### Real economic indicators

- Greenhouse gas emissions in Germany and the EU-27
- Greenhouse gas emissions by economic activity in Germany
- Greenhouse gas intensity in Germany and the EU-27
- Greenhouse gas intensity by economic activity in Germany
- Greenhouse gas intensity of energy consumption in Germany and the EU-27
- Gross inland energy consumption by fuel in Germany
- Final energy consumption in households in Germany and the EU-27
- Electricity prices for household and non-household consumers in Germany and the EU-27
- Allowances and emissions covered by the EU Emissions Trading System
- Primary market auction prices for European Emission Allowances

### Climate-related indicators

- Atmospheric greenhouse gas concentration
- Global mean near surface temperature anomaly
- Mean air temperature and hot days in Germany
- Total precipitation and heavy rain days in Germany

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# Contribution to international climate-related data discussion: International Conference on Statistics for Sustainable Finance

- The conference is organised jointly by the Banque de France, the Deutsche Bundesbank, and the Irving Fisher Committee on Central Bank Statistics (IFC) of the Bank for International Settlements.
- It will bring together users and producers of statistics on sustainable finance to discuss their **data and analytical needs** as well as the **challenges** they face.
- 14.09.21 – 15.09.21 in Paris (Hybrid event)
- Registration and preliminary programme: [International Conference on Statistics for Sustainable Finance 14&15 September 2021, Paris | Banque de France \(banque-france.fr\)](#)



# Open question: How can access to existing climate data be improved on a global level?

- **Work with non-traditional stakeholders?**

We reached an agreement with one data provider on making certain aggregates available on our website. This page contains data and graphs on volumes of green and social bonds. They form part of the [NGFS Dashboard on scaling up green finance](#), which we update annually.

- **Using digitalization?**

Together with Banco de España, Bundesbank submitted a proposal on "Information extraction applied to sustainability-related disclosures" to the recent [G20 TechSprint on Green Finance](#).

- **Joint procurements and data sharing?**

Bundesbank leads [the joint Eurosystem procurement of climate-related data on behalf of all ESCB central banks](#). This minimises duplication of efforts, given that many central banks face similar (data) challenges. In addition, it ensures consistency of analysis within central banks and facilitates cooperation between institutions.

Thank you for your attention!  
**Questions?**