

Bundesrepublik Deutschland Finanzagentur GmbH

Federal Republic of Germany Green Bond Investor Presentation

April 2024

Executive Summary

Climate Policy

Green

Budget

Expenditure

- Environmental and climate protection are a top priority in Germany. The Klimaschutzgesetz (Climate Change Act) sets a clear goal: achieving greenhouse gas (GHG) neutrality by 2045. Ambitious climate targets are set for all sectors.
- Since 1990, GHG emissions have been reduced by 46% (2023). The 2030 objective is to reduce GHG emissions by at least 65%, the 2045 objective is a neutral GHG emission balance.
- Green Federal securities are part of Germany's sustainability strategy. They strengthen green financial markets and increase the transparency for selected green budget items.
- Indicative amount of eligible green expenditures for 2023 budget: € 18 € 19 bn, selected from five sectors: (1) transport; (2) international cooperation; (3) research, innovation and awareness raising; (4) energy and industry; (5) agriculture, forestry, natural landscapes and biodiversity.

Green Federal Securities

- Germany will continue to establish a green yield curve in 2024 with a new 5-year Green Bobl. The green segment will be further expanded with a planned annual issuance volume of € 17-19 bn in 2024 (after € 17.25 bn in 2023 and € 14.5 bn in 2022).
- The innovative twin bond concept makes the 'greenium' transparent and has created a new benchmark in the green bond market.



1. Germany's Green Footprint



Climate Action Policy

The Federal Climate Change Act is the legal basis for climate action policy in Germany and a key instrument to implement the Paris Climate Agreement.

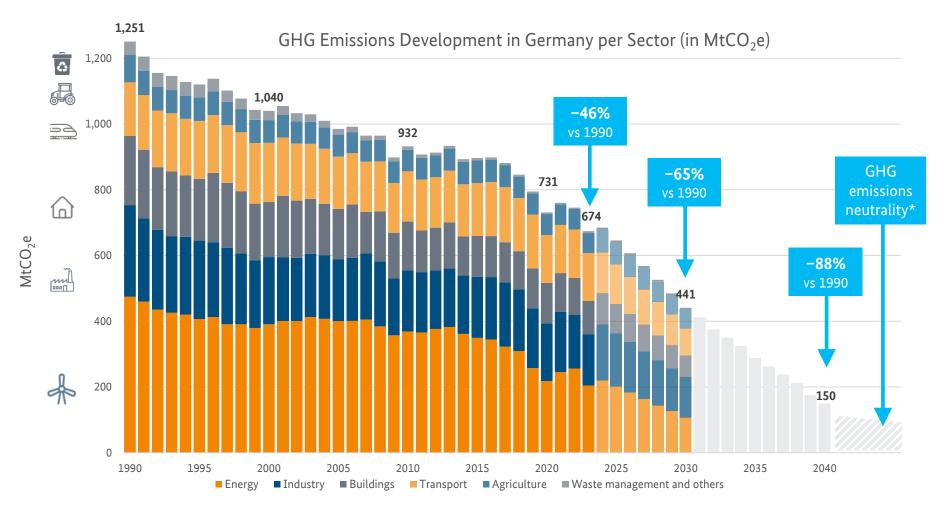
- by 2030: a reduction of GHG emissions by at least 65% compared to 1990
- by 2040: a reduction of GHG emissions by at least 88% compared to 1990
- by 2045: net GHG neutrality
- The act ensures a high level of trust, as binding climate targets and procedural steps for monitoring and attaining the targets, including an adjustment mechanism, have been laid down.

In October 2023, the federal cabinet adopted the 2023 Climate Action Programme, which

- reduces the emissions gap from 1100 Mt to 200 Mt of CO₂-emissions and
- contains measures to reduce GHG emissions in all sectors, cross-sectoral measures and activities to protect and expand natural sinks.
- A substantial proportion of the measures has already been adopted by the federal government.



Germany's Path to Decarbonisation



Sources: Federal Climate Change Act; Federal Ministry for Economic Affairs and Climate Action; *net zero anthropogenic GHG emissions from all sectors covering all GHG emissions, which means emissions from carbon dioxide as well as other GHG like methane

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Current Projections

- Climate emissions to fall by 10.1% in 2023 sharpest decline since 1990, due to:
 - Increased share of renewable energies (expansion of wind and solar power)
 - Decrease in fossil energy generation
 - Lower demand for energy from industry and consumers
- 2024 GHG projections show a reduction of almost 64% by 2030 compared to 1990 (target 65%)
- Measures such as the Federal Subsidy for Efficient Buildings (BEG), the Building Energy Act (GEG) and the increase in the HGV tolling scheme have helped to reduce the target gaps in the buildings and transport sectors.
- The measures taken to accelerate the expansion of renewable energies have an increasing impact.

Source: Federal Ministry for Economic Affairs and Climate Action; 15 March 2024



Focus on Energy Area



| Share of GHG emissions | 31% of all GHG emissions in Germany | |
|------------------------|--|--|
| 2023 achievement | 205 MtCO ₂ e (-57% vs 1990 level) | |
| 2030 target | 108 MtCO ₂ e (-77% vs 1990 level) | |

Overview

- Through ambitious targets and regulatory measures, such as the Renewable Energy Sources Act (EEG), GHG emissions in the energy sector have been reduced significantly.
- Full decarbonisation by 2045 through transformation of energy supply towards more renewable energies and energy efficiency.

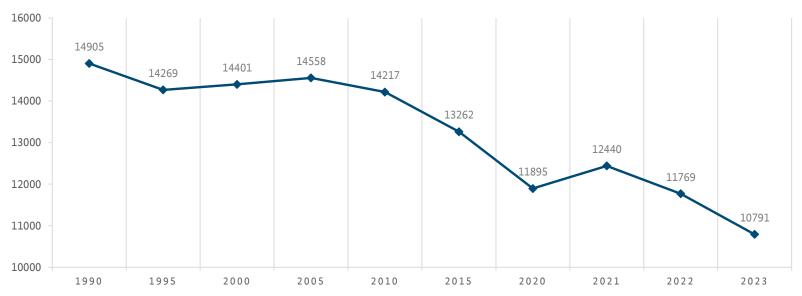
Germany's path to the energy system of the future

- No more power from coal at the latest by 2038 (ideally by 2030)
- No nuclear power station in operation since 15 April 2023
- Renewables to generate 80% of Germany's power by 2030



Primary Energy Consumption in Germany (1)

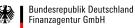
Development of Primary Energy Consumption in Germany since 1990



CONSUMPTION IN PETAJOULE (PJ)

In 2023, the consumption of primary energy recorded a reduction of 7.9 % compared to the previous year and fell to the lowest level since 1990.

Source: Arbeitsgemeinschaft Energiebilanzen (12/2023); comparison 2022 + 2023 provisional data



Primary Energy Consumption in Germany (2)

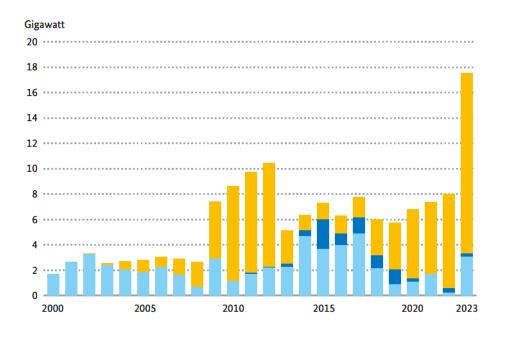


Primary Energy Consumption

Source: Arbeitsgemeinschaft Energiebilanzen (12/2023); net import of electricity not included

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Increase in Installed Capacity for Electricity Generation from Wind and Photovoltaics



- Expansion of renewable energies increases
- Photovoltaic expansion almost doubled in 2023
- Promotion of the energy transition through legislation package
 - Renewable Energy Sources Act
 - Offshore Wind Energy Act
 - Onshore Wind Energy Act

Onshore wind energy
Wind energy at sea
Photovoltaics

Sources: Federal Ministry for Economic Affairs and Climate Action (Monthly Report August 2023)

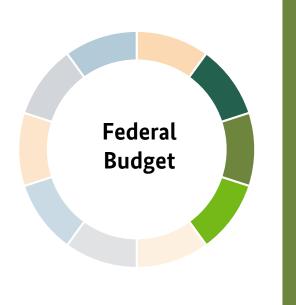
2. Green Bond Program - Use of Proceeds



Use of Proceeds

- Germany's Green Bond Framework provides for five Green Sectors for the use of proceeds:

 transport; (2) international cooperation; (3) research, innovation and awareness raising; (4) energy and industry; (5) agriculture, forestry, natural landscapes and biodiversity.
- Eligible Green Expenditures contribute to the six environmental objectives of the EU Taxonomy Regulation and at least 12 out of the 17 UN Sustainable Development Goals



Eligible green expenditures:

• Green Eligible Expenditures can include any type of Federal expenditure contributing to a transition towards a low-carbon, resource efficient and sustainable economy

Excluded expenditures:

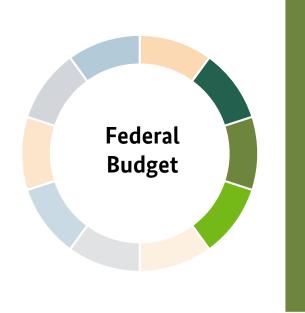
- State expenditures which are already earmarked by other public Green Bond issuers (such as KfW or NGEU)
- Armaments, defence, tobacco, alcohol, gambling, fossil fuels and nuclear power



High Level of Transparency and Strict Standards

Exclusion of double counting:

Expenditures allocated to Green German Federal securities are earmarked for this purpose only, and will not overlap with the use of any other green funding source.



Clear differentiation of green expenditures:

- Expenditures proposed by the federal government in the German Recovery and Resilience Plan (DARP) for the NGEU program are excluded from the allocation to Green Bunds.
- Only CTF (Climate and Transition Fund) expenditures in the amount financed by the federal budget (including reserves) are taken into account for Green Bunds.
- Federal budget expenditures associated with KfW Green Bonds are excluded from the allocation to Green Bunds.

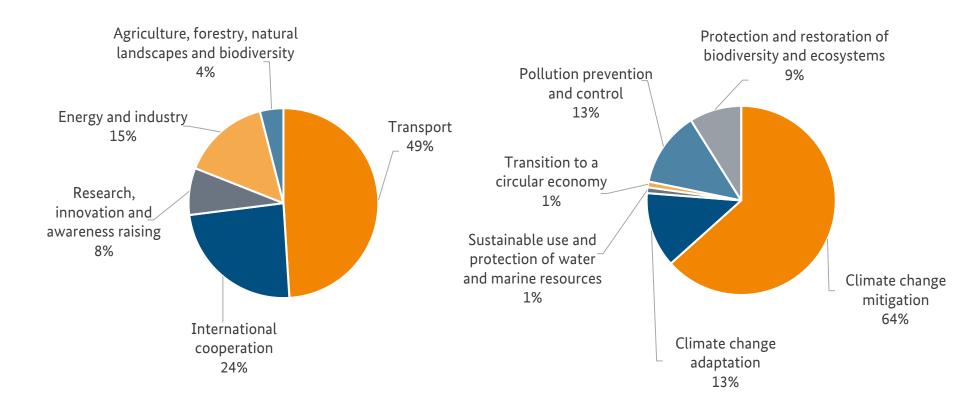


Overview Use of Proceeds: Eligible Green Expenditures (€ mn)

| Green Sectors | 2023 Indicative | 2022 | 2021 | 2020 | 2019 |
|--|-----------------|----------|----------|----------|----------|
| Transport | 9,400 - 9,700 | 8,931.1 | 8,344.1 | 7,387.3 | 7,125.3 |
| International cooperation | 4,000 - 4,200 | 4,442.1 | 3,701.0 | 3,278.3 | 2,981.7 |
| Research, innovation and awareness raising | 1,700 - 1,900 | 1,534.0 | 1,359.8 | 1,085.0 | 625.1 |
| Energy and industry | 2,000 - 2,200 | 2,743.5 | 2,665.5 | 1,093.2 | 1,198.5 |
| Agriculture, forestry, natural landscapes and biodiversity | 900 - 1,000 | 717.9 | 767.0 | 564.0 | 381.5 |
| Total | 18,000 - 19,000 | 18,368.6 | 16,837.4 | 13,407.8 | 12,312.1 |



Contributions of Eligible Green Expenditures: Breakdown by Green Sector and by EU Environmental Objective



Based on eligible green expenditures 2022; further information: Allocation Report 2023



Eligible Green Expenditures in a Nutshell (1)

Germany is investing massively in measures to protect the climate and adapt to climate change, to promote and protect natural habitats, such as forests, moors and floodplains, both in Germany and internationally, year after year, legitimised and supported by the German parliament.

2024 is the 5th issuance year of Green Federal securities. During this period, the portfolio of eligible green expenditure (EGE) has developed visibly. The number of budget items increased from 65 (2019 budget) to more than 100 (2023 budget), the total amount from € 12.3 bn (2019) to more than € 18 bn (2023). However, in terms of relative distribution, the composition is very stable across all sectors.

The further development depends on various factors. The **Federal budget** continues to show considerable annual amounts of green expenditure. From these generally eligible expenditures, the German Core Green Bond Team makes a significant reduction in order to strictly avoid a double counting. This includes expenditure which is part of Germany's Recovery and Resilience plan (NGEU green bonds), as well as expenditure with other sources of financing, such as revenues from the carbon pricing scheme.



Eligible Green Expenditures in a Nutshell (2)

In general, project administration costs are only taken into account if they are necessary for the implementation of the projects and do not account for a significant proportion (e.g. not in the start-up phase; no ministerial administration costs for the Core Green Bond Team or the Interministerial Working Group).



EU Taxonomy

Only about a fifth of the EGE portfolio is attributable to non-personnel administrative expenditure or grants not intended for investments (e.g. for R&D),

while a full four-fifths is attributable to construction measures and other expenditure on investments.

All EGE are mapped to the six environmental objectives of the EU taxonomy. They largely contribute to the first two objectives: Climate Change Mitigation and Adaptation add up to around 75% of the EGE portfolio.

Comparatively, biodiversity - with approximately one tenth year by year - is significant as well.

Beyond this, an initial assessment of the Core Green Bond Team based on the 2022 EGE suggests the following.



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For at least 40%, a significant contribution to climate protection can be reported in accordance with the TSC, particularly from the transport sector (rail and cycling infrastructure). A reliable statement on adverse impacts on other EU environmental objectives (DNSH) is not possible (particularly due to large number of parties involved).

For around a quarter of the EGE, the EU taxonomy is largely inapplicable, e.g. in the area of basic research.

Around a further quarter has not yet been analysed due to the large number and heterogeneity of the projects in the respective budget items.

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Sector Details: Transport



The German government has adopted extensive measures to decarbonise passenger and freight transport and to make it more environmentally friendly.

| | Investment subsidies for rail construction and | F |
|--|--|---|
| Rail transport | expansion projects, for the maintenance of the high-quality rail infrastructure, and to address bottlenecks in public transport networks | Reduct • 1.7 |
| Alternative drive systems and fuels | Promotion of the transformation towards electric mobility, innovative drive technologies, as well as the necessary infrastructure and the system integration into the energy system | 1.4 fina Decarb > 36 |
| Public transport | Investment subsidies and financial aid to support local public transport infrastructure, funding program to digitalise local transport systems | • > 50 Renewa |
| Cycling | Measures to implement the National Cycling Plan, investment funding and subsidies for the expansion of Germany's network of cycling routes | 1,99 2,27 35,4 |

Past impact examples (2021)

Reduction of GHG emissions

- 1.7 million t CO₂e p.a. (co-financing)
- 1.4 million t CO₂e in 2020 (full financing)

Decarbonisation of the mobility sector

- > 360 H₂ vehicles
- > 500 infrastructure facilities

Renewal of tracks, switches, bridges

- 1,995 km tracks
- 2,277 switches
- 35,414 m² bridges

Sector Details: International **Cooperation for the Green Transformation** (1)

Eligible programs/projects are targeted at:

- mitigating and adapting to climate change
- transitioning towards sustainable energy ٠ systems based primarily on renewable energy sources
- improving energy efficiency
- protecting habitats and biodiversity
- sustainable use of natural resources and energy, including developing renewable energy generation facilities sustainable agriculture



| Breakdown by EU Environmental Objectives | Allocation 2023 |
|--|-----------------|
| Climate change mitigation | 32.2% |
| Climate change adaptation | 24.3% |
| Sustainable use and protection of water and marine resources | 0.3% |
| Transition to a circular economy | 0.2% |
| Pollution prevention and control | 27.4% |
| Protection and restoration of biodiversity and ecosystems | 15.6% |

Past impact examples (2021)

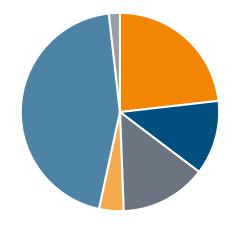
Approx. 1,800 development aid projects on climate and environmental issues were supported with a wide range of impacts, for example:

- GHG emission reductions ٠
- Land area with improved ecosystem protection ٠
- Energy saved ٠
- Installation of renewable energy capacities ٠



Sector Details: **International Cooperation for the Green Transformation** (2)

By funding region (Allocation 2023)



Africa



- Latin America and Caribbean South-east Europe / Caucasus
- Multilateral or global
- Other



Governance in international cooperation

The selection and approval of specific projects is subject to compliance with German law, the Guidelines for bilateral Financial and Technical Cooperation and all relevant international agreements and treaties signed by Germany.

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- Governance safeguards and processes are in place for every type of expenditure to prevent corruption and money laundering in line with European and national legislation and standards.
- Social safeguards and processes are in place for every type of expenditure to reduce the risk of forced labor and child labor and to promote and strengthen human rights in developing countries in accordance with European and national legislation and standards.
- International support is reported in accordance with internationally agreed guidelines, criteria and reporting cycles, either as official development assistance (ODA) to the OECD Development Assistance Committee (DAC) and/or as climate finance to the EU and United Nations Framework Convention on Climate Change (UNFCCC).

Sector Details: **Research, Innovation and Awareness Raising**



Eligible expenditure are used in particular to develop solutions to combat climate change, curb GHG emissions, preserve ecosystems and biodiversity and protect natural resources.

Areas of action (selection):

Research for sustainability

- energy research, focused on developing sustainable energy systems, e.g. energy technologies, efficient energy use, green hydrogen, electricity grids and storage systems
- bioeconomic research, e.g. sustainable agricultural systems, innovative plant cultivation systems
- carbon dioxide removal technologies

Aerospace, energy, transport and digitalisation

- climate-efficient and climate-neutral fuels and drive systems
- development of new mobility strategies, focused on climate action and resource protection

Cross-Section

In a society making a transition towards a sustainable economy, strong government commitment is essential. Thus, the federal budget contains considerable green expenditures on research, innovation and awareness raising. The expenditures are found partly in this research sector and partly in the other four sectors (if there is a clear connection to the respective sector). Taken together, they account for approximately 13% of the total allocated expenditures.

Past impact examples (2021)

The eligible expenditures of around € 1.1 billion in the research, innovation and awareness raising sector include more than 6,800 projects that enable and support education and innovation on climate and environmental issues.

Sector Details: Energy and Industry

| Energy | Funding is focused on technologies and approaches that | Past |
|---|--|---|
| research | improve efficiency, support the transition to renewable energy sources and guarantee the security of supply. | Reduct |
| Renewable energy | Examples: renewable heating technologies, solar collector systems, solid biomass combustion systems, efficient heat pumps, deep geothermal systems, international market ramp-up of green hydrogen | 1.4 (ful 2.3 (tot |
| Energy efficiency | Funding includes, for example, measures to increase energy and resource efficiency and to reduce carbon emissions in industry and businesses, as well as advisory services on energy consumption and corresponding measures for all end users, such as private households. | Researce • ~ 4, Climate |
| National climate action measures | broad range of climate action activities, e.g. developing long-term strategies to specific support measures in areas including energy, transport and business/industry | The CTF in this ar CTF play the ener national |



st impact examples (2021)

tion of GHG emissions

- million t CO_2e p.a. Ill financing)
- million t CO₂e tal project duration)

rch

1,500 ongoing projects

nate and Transition Fund (CTF)

F is the main funding instrument area. Programmes funded by the ay a central role in implementing ergy transition and achieving al and international climate target.



Sector Details: Agriculture, forestry, natural landscapes and biodiversity

| Agriculture | Improvement the conditions for organic farming and the organic food industry; enhancing energy efficiency and reducing of carbon emissions in agriculture and horticulture |
|---|---|
| LULUCF | Supporting sustainable and resource-conserving agriculture and forestry |
| Biodiversity and natural landscapes | Funding for various programs dedicated to the conservation of biodiversity and the protection of natural habitat and endangered species |
| Coastal and flood protection | Funding support to implement a wide range of coastal defence and flood protection measures |



Past impact examples (2021)

- > 1000 subprojects
- > 1000 beneficiaries
- 0.046 million t CO₂e p.a GHG reduction
- 6,475 ha reforested area

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- 90 ha area of initial afforestation
 - 32,043 ha of forest nature conservation
- 616 ha placed under protection
- 92,000 ha total area restored
- > 1.5 mn ha protected area
- 16,675 ha reclaimed floodplain area
- 509 million m³ reservoir space gained

Expenditures - Issues - Reporting: Annual Cycle in Practice

| | n-1 Federal budget year Eligible green expend. | n Issuance year Issuance volume | n+1 <i>Report title</i> Date | n+2 <i>Report title</i> Date | |
|----------------------|---|--|---|---|--------------------|
| | 2019 | 2020 | 20.04.2021 | 30.09.2022 | ALLO |
| | € 12.3 bn | € 11.5 bn | Allocation Report 2020 | Impact Report 2020 | CATION |
| nework | 2020 | 2021 | 10.05.2022 | 28.09.2023 | ALLO |
|)20 | € 13.4 bn | € 12.5 bn | Allocation Report 2021 | Impact Report 2021 | BATION |
| Green Bond Framework | 2021 | 2022 | 30.03.2023 | | A A A O |
| 24 August 2020 | € 16.8 bn | € 14.5 bn | Allocation Report 2022 | | CATION |
| Green E 24 . | 2022 € 18.4 bn | 2023 € 17.25 bn | 28.03.2024 Allocation Report 2023 | | Allc cat ion |
| | 2023 € 18-19 bn | 2024 € 5 bn YTD | | | |

As of 4 April 2024. Images are linked to the report.



Green Bond Program – Twin Bond Concept and Execution Strategy



Germany's Green Bond Issuance: all Transactions at a Glance

| | Green Bobl October 2025 | Green Bobl October 2027 | Green Bobl 2029 | Green Bund August 2030 | Green Bund August 2031 | Green Bund February 2033 | Green Bund August 2050 | Green Bun August 205 |
|------------|----------------------------|----------------------------|--------------------|---------------------------|---------------------------|-----------------------------|---------------------------|-------------------------|
| total: | € 8.5 bn | € 9 bn | | € 9.5 bn | € 9 bn | € 7.25 bn | € 11 bn | € 6.5 bn |
| 02.09.2020 | | | | € 6.5 bn (S) | | 07.120 0.1 | | 0.000 |
| 04.11.2020 | € 5 bn | | | | | | | |
| 11.05.2021 | | | | | | | € 6 bn (S) | |
| 08.09.2021 | | | | | € 3.5 bn | | | |
| 20.10.2021 | | | | | € 3 bn | | | |
| 02.03.2022 | | | | € 1.5 bn | | | | |
| 04.05.2022 | | | | | € 1.5 bn | | | |
| 01.06.2022 | | | | | | | € 4 bn (S) | |
| 20.07.2022 | | | | € 1.5 bn | | | | |
| 31.08.2022 | | € 5 bn (S) | | | | | | |
| 02.11.2022 | | | | | €1bn | | | |
| 24.01.2023 | € 1.5 bn | | | | | | | |
| 21.03.2023 | | € 1.5 bn | | | | | | |
| 25.04.2023 | | | | | | € 5.25 bn (S) | | |
| 07.06.2023 | €1bn | | | | | | | |
| 13.06.2023 | | | | | | | | € 4.5 bn (|
| 05.07.2023 | | | | | | €1bn | | |
| 30.08.2023 | | € 1.5 bn | | | | | | |
| 31.10.2023 | | | | | | | | €1bn |
| 23.01.2024 | | €1bn | | | | | | €1bn |
| 27.02.2024 | | | | | | | €1bn | |
| 26.03.2024 | €1bn | | | | | €1bn | | |
| 30.04.2024 | | | | | | | | |
| 28.05.2024 | | | | | | | | |
| 02.07.2024 | | | | | | | | |
| 20.08.2024 | | | | | | | | |
| 10.09.2024 | | | | | | | | |
| 08.10.2024 | | | | | | | | |
| 05.11.2024 | | | | | | | | |
| 2024 | | | | | | | | (S) |

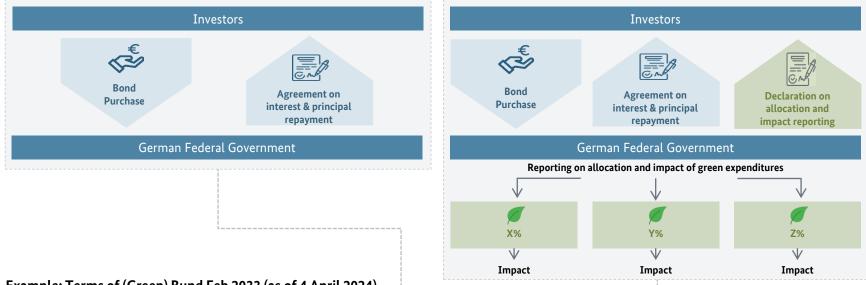
New issues in dark green, else reopening. S = syndicate, else auction. Up-to-date information on <u>www.deutsche-finanzagentur.de</u>

Twin Bond Concept

Conventional German Federal security "Conventional twin"

Green German Federal security "Green twin"

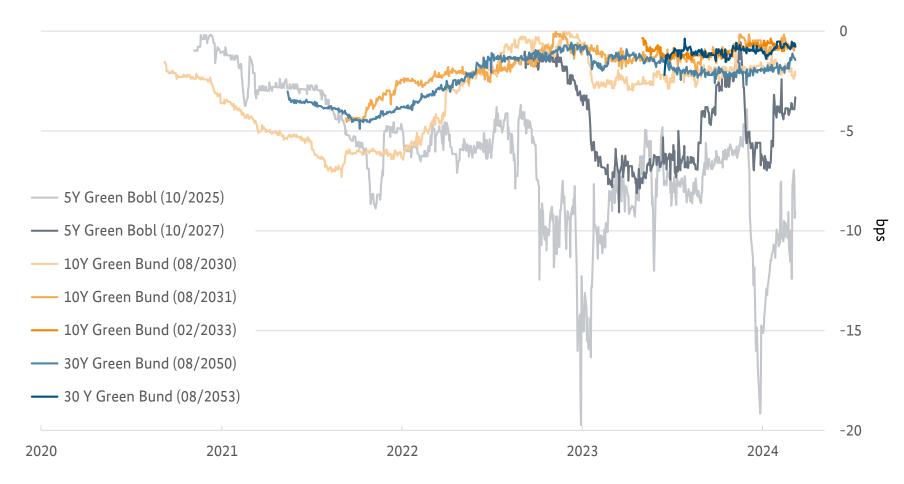
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Example: Terms of (Green) Bund Feb 2033 (as of 4 April 2024)

| | | Conventional twin | Green twin | | | | |
|----------------------------|------------------|-------------------|----------------|--|--|--|--|
| | Maturity segment | 10 |)y | | | | |
| | Coupon | 2.3% | | | | | |
| Identical to both twins | Interest dates | Annually | | | | | |
| | Maturity | 15 February 2033 | | | | | |
| | Future-Contracts | Deliverable | | | | | |
| | Issuance date | 11 January 2023 | 25 April 2023 | | | | |
| Different for | ISIN | DE000 BU2Z00 7 | DE000 BU3Z00 5 | | | | |
| each twin | Outstanding size | € 38.25 bn | € 7.25 bn | | | | |
| | Price / Yield | 99.77 / 2.329% | 99.81 / 2.324% | | | | |

The Twins` Performance: Making the ,Greenium' Transparent



Greenium = yield spread between green and conventional bond

Green Bonds Issuance Plan 2024

| | 0 % Bobl/g | 1.3 % Bobl/g | Bobl/g | 0 % Bund/g | 0 % Bund/g | 2.3 % Bund/g | 0 % Bund/g | 1.8 % Bund/g |
|-------------|---------------|--------------------|--------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Issuance | 04.11.2020 | 31.08.2022 | 2024 | 02.09.2020 | 08.09.2021 | 25.04.2023 | 11.05.2021 | 13.06.2023 |
| Maturity | 10.10.2025 | 15.10. 2027 | 2029 | 15.08 .2030 | 15.08. 2031 | 15.02. 2033 | 15.08 .2050 | 15.08 .2053 |
| Outstanding | € 8.5 bn | € 9 bn | | € 9.5 bn | € 9 bn | € 7.25 bn | € 11 bn | € 6.5 bn |

Green bond segment is to be further developed in 2024

- Planned issuance range of € 17-19 bn (YTD € 5 bn)
- Outstanding amount as of 5 April 2024: € 60.75 bn
- 10 auctions
 - including a new issue of a Green Bobl during the course of the year
 - including multi ISIN auctions
- Reopening of a long Green Bund via syndication



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