# **About this report**

Sustainability is GIZ's guiding principle and forms the basis for our contributions to shaping a society that is fit for the future. We compile and analyse all the most important climate and environmental data every year to gain a better understanding of our environmental sustainability and continuously improve our performance. Externally validated information about our activities in Germany is provided by the Eco-Management and Audit Scheme (EMAS). We have also developed our own environmental management tool, the Corporate Sustainability Handprint® (CSH), as a source of data on our operations in other countries.

GIZ has gathered climate and environmental data for its German locations since 1999. Following the adoption of EMAS in 2013, environmental figures are now checked each year by an accredited environmental consultant to ensure that they are complete and plausible.

In the same year, we piloted systematic data collection in our partner countries. Annual data compilation has been mandatory since 2018. Further information about the methods we use to calculate climate and environmental data can be found in the section entitled 'Notes on calculation methods'.

The publication 'Climate and Environmental Data 2023' is aimed at GIZ employees and anyone outside the company with a professional interest in our environmental performance. This document includes all the most important climate and environmental data for our sites in both Germany and our partner countries for the period from 1 January to 31 December 2023. The figures for Germany are the totals as at 31 May 2024. Previous publications may show other data.

# Summary of climate and environmental data

| Workforce   |       |       | Germany |       |       | Abroad   |   |                |        |        |  |  |
|---|-------|-------|---------|-------|-------|--|---|----------------|--------|--------|--|--|
|   | 2019  | 2020  | 2021    | 2022  | 2023  | 2019   | 2020  | 2020 2021 2022 |        |        |  |  |
| Total number of internal staff [FTE]              | 5,183 | 5,782 | 5,769   | 6,036 | 6,272 | Es gibt koine II   | s niht keine Unterscheidung zwischen internen und externen Mitarheiter*in |                |        |        |  |  |
| Total number of external staff [FTE]              | 315   | 234   | 245     | 240   | 229   | <ul> <li>— Es gibt keine Unterscheidung zwischen internen und externen Mitarbeiter*ir</li> </ul> |   |                |        |        |  |  |
| Total number of internal and external staff [FTE] | 5,497 | 6,016 | 6,014   | 6,276 | 6,502 | 18,228   | 18,962  | 19,945         | 20,093 | 19,921 |  |  |

| Summary of GHG emissions <sup>1</sup>            |       |       | Germany |      | Abroad |        |       |       |        |       |
|--|-------|-------|---------|------|--------|--------|-------|-------|--------|-------|
|  | 2019  | 2020  | 2021    | 2022 | 2023   | 2019   | 2020  | 2021  | 2022   | 2023  |
| Scope 1  |       |       |         |      |        |        |       |       |        |       |
| Heating in t CO <sub>2</sub> e                   | 2,760 | 2,227 | 1,079   | 864  | 515    | 1,850  | 1,975 | 1,918 | 1,007  | 1,243 |
| Fuel for company vehicles in t CO <sub>2</sub> e | 23    | 13    | 9       | 8    | 10     | 11,550 | 8,236 | 9,248 | 10,741 | 9,627 |
| Coolants in t CO₂e                               | 31    | 23    | 8       | 13   | 45     | 4,048  | 3,849 | 4,111 | 4,055  | 4,240 |
| Generators in t CO <sub>2</sub> e                | 3     | 7     | 6       | 6    | 0      | 1,765  | 2,303 | 1,379 | 2,641  | 2,287 |
| Scope 2  |       |       |         |      |        |        |       |       |        |       |
| Electricity <sup>2</sup> in t CO <sub>2</sub> e  | 361   | 282   | 235     | 185  | 224    | 9,693  | 7,582 | 8,044 | 8,416  | 9,072 |
| District heating in t CO <sub>2</sub> e          | 177   | 168   | 211     | 180  | 177    | 351    | 563   | 423   | 218    | 247   |
| District cooling in t CO <sub>2</sub> e          | 47    | 36    | 50      | 46   | 47     | 76     | 0,5   | 0     | 0      | 0     |

<sup>1</sup> Due to improved data quality, these figures partly deviate from previously published data. This applies in particular to the year 2022.

<sup>2</sup> Emissions from electricity were calculated using the market-based method domestically. The location-based method is used abroad.

| Emissions from sourcing biomethane <sup>3</sup> |                            |                            | Germany |      | Abroad |   |  |  |  |
|---|----------------------------|----------------------------|---------|------|--------|---|--|--|--|
|   | 2019                       | 2020                       | 2021    | 2022 | 2023   |   |  |  |  |
| Heating in t CO₂e                               | no supply of biomethane    | no supply of biomethane    | 148     | 118  | 158    | No biomethane is purchased for heating abroad |  |  |  |
| Fuel and energy-related emissions in t CO₂e     | no supply of<br>biomethane | no supply of<br>biomethane | 53      | 42   | 57     |   |  |  |  |

<sup>3</sup> Since 2021, biomethane has been purchased for heating at most locations in Germany.

| Electricity <sup>4</sup>                                   |       |       | Germany |       |       |       |          | Abroad           |       |       |
|--|-------|-------|---------|-------|-------|-------|----------|------------------|-------|-------|
|  | 2019  | 2020  | 2021    | 2022  | 2023  | 2019  | 2020     | 2021             | 2022  | 2023  |
| Electricity (location-based method) in t CO <sub>2</sub> e | 4,197 | 4,329 | 4,013   | 3,801 | 3,965 | 9,693 | 7,582    | 8,044            | 8,416 | 9,072 |
| Electricity (market-based method) in t CO <sub>2</sub> e   | 361   | 282   | 235     | 185   | 224   |       | Data not | mapped in the CS | SH    |       |

<sup>4</sup> Updated data results in changes to the data. Outside Germany, we exclusively use the location-based method. No data are available for calculating the market-based method.

| Scope 3  |            |         | Germany |         | Abroad  |                              |        |        |        |        |
|--|------------|---------|---------|---------|---------|------------------------------|--------|--------|--------|--------|
|  | 2019       | 2020    | 2021    | 2022    | 2023    | 2019                         | 2020   | 2021   | 2022   | 2023   |
| Purchased goods and services <sup>5</sup> in t CO <sub>2</sub> e | 132,223    | 136,910 | 155,341 | 139,122 | 138,011 | 61,789                       | 54,815 | 84,035 | 68,151 | 67,975 |
| Fuel and energy-related emissions $^{\rm 6}$ in t ${\rm CO_2e}$  | 312        | 368     | 288     | 241     | 276     | 8,276                        | 6,322  | 5,652  | 6,876  | 6,505  |
| Business trips in t CO <sub>2</sub> e                            | 23,275     | 3,179   | 2,798   | 13,239  | 17,602  | 86,254                       | 19,481 | 22,724 | 59,531 | 78,362 |
| Commuting <sup>7</sup> in t CO <sub>2</sub> e                    | 3,042      | 1,587   | 1,078   | 4,903   | 3,926   | 10,008                       | 4,396  | 4,624  | 13,974 | 13,854 |
| Events in t CO <sub>2</sub> e                                    | Data not n | napped  | 36      | 81      | 407     | 7 Data not mapped in the CSH |        |        |        |        |

<sup>5</sup> Estimate based on financial data. These are only emissions from purchased services since these are essential for GIZ. This excludes construction services

| Achievement of SBTi target <sup>8</sup> |         | Entire company |         |         |         |  |  |  |  |  |  |
|---|---------|----------------|---------|---------|---------|--|--|--|--|--|--|
|   | 2019    | 2020           | 2021    | 2022    | 2023    |  |  |  |  |  |  |
| Scope 1 + 2 in t CO <sub>2</sub> e      | 32,709  | 27,265         | 26,721  | 28,380  | 27,735  |  |  |  |  |  |  |
| Scope 3 in t CO <sub>2</sub> e          | 325,157 | 227,058        | 276,540 | 306,037 | 326,510 |  |  |  |  |  |  |

<sup>8</sup> The totals deviate in part from previously communicated figures because data quality has improved thanks to more accurate recalculations.

<sup>6</sup> Due to improved data quality, figures may differ in part from previously published data. An estimate was made for foreign countries for the years 2019 and 2020.

<sup>7</sup> Commuter traffic abroad was roughly estimated for 2019 using flat-rate values. From 2020, the values are derived from an extrapolation based on the results of an internal survey of selected locations abroad

| Other Airborne Emissions <sup>9</sup>   |       |       | Germany |        | Abroad |      |          |                  |      |      |
|---|-------|-------|---------|--------|--------|------|----------|------------------|------|------|
|   | 2019  | 2020  | 2021    | 2022   | 2023   | 2019 | 2020     | 2021             | 2022 | 2023 |
| NO <sub>x</sub> (nitrogen oxides) in kg | 8,822 | 4,394 | 2,951   | 13,196 | 13,536 |      |          |                  |      |      |
| SO <sub>2</sub> (sulfur dioxide) in kg  | 4,964 | 2,036 | 1,550   | 4,913  | 5,121  |      | Data not | mapped in the CS | Н    |      |
| PM 10 (coarse particular matter) in kg  | 233   | 82    | 76      | 859    | 698    |      |          |                  |      |      |

9 Data for 2021 and 2022 have been recalculated based on new data.

| Offsets <sup>10</sup>                   |        |       | Germany |        |        | Abroad |        |        |        |         |  |
|---|--------|-------|---------|--------|--------|--------|--------|--------|--------|---------|--|
|   | 2019   | 2020  | 2021    | 2022   | 2023   | 2019   | 2020   | 2021   | 2022   | 2023    |  |
| Climate neutralized t CO <sub>2</sub> e | 29,721 | 7,534 | 5,779   | 19,778 | 23,229 | 0      | 43,990 | 53,500 | 93,752 | 111,583 |  |

10 Since we cannot reduce all GHG emissions from different sources, we offset the emissions that are directly related to our activities. Scope 1 and 2 emissions have been offset for domestic operations since 2013, while foreign emissions have been offset since 2020.

In the area of Scope 3 emissions, we have been offsetting emissions from business travel and commuter traffic in Germany since 2013. In 2020, the offsetting of business travel was expanded to include foreign countries. In addition, emissions from events in

Germany and energy-related emissions in Germany and abroad were added in 2021. The other emission sources are beyond the control of GIZ and can in part only be recorded by means of rough estimates. They are not offset.

| Mobility  |        |        | Germany |        | Abroad |         |          |                 |         |         |  |
|---|--------|--------|---------|--------|--------|---------|----------|-----------------|---------|---------|--|
|   | 2019   | 2020   | 2021    | 2022   | 2023   | 2019    | 2020     | 2021            | 2022    | 2023    |  |
| Total flights in 1,000 km                         | 69,621 | 9,515  | 8,252   | 41,831 | 56,738 | 361,454 | 78,670   | 81,902          | 250,994 | 312,600 |  |
| Distance flown per staff member in km             | 13,434 | 1,646  | 1,430   | 6,930  | 9,046  | 19,830  | 4,149    | 4,106           | 12,492  | 15,692  |  |
| Total rail trips in 1,000 km                      | 12,357 | 3,195  | 1,833   | 6,447  | 8,768  |         |          |                 |         |         |  |
| Distance travelled by rail per staff member in km | 2,384  | 553    | 318     | 1,068  | 1,398  |         |          |                 |         |         |  |
| Total trips using company vehicles in 1,000 km    | 137    | 107    | 114     | 147    | 108    |         | Data not | mapped in the C | CSH     |         |  |
| Total distance travelled in 1,000 km              | 82,115 | 12,817 | 10,199  | 48,426 | 65,613 |         |          |                 |         |         |  |
| Distance travelled per staff member in km         | 15,845 | 2,217  | 1,768   | 8,023  | 10,461 |         |          |                 |         |         |  |

| Energy Consumption <sup>11</sup>   |            |            | Germany    |            |            | Abroad     |            |                  |            |            |  |
|--|------------|------------|------------|------------|------------|------------|------------|------------------|------------|------------|--|
|  | 2019       | 2020       | 2021       | 2022       | 2023       | 2019       | 2020       | 2021             | 2022       | 2023       |  |
| Total energy consumption   |            |            |            |            |            |            |            |                  |            |            |  |
| Total energy consumption in kWh  | 24,114,794 | 23,015,555 | 23,240,630 | 20,429,619 | 20,570,353 | 80,277,407 | 66,123,732 | 66,416,385       | 75,989,840 | 71,491,450 |  |
| Total energy consumption per staff member in kWh                         | 4,387      | 3,826      | 3,864      | 3,255      | 3,164      | 4,404      | 3,487      | 3,330            | 3,782      | 3,589      |  |
| Electricity  |            |            |            |            | - 1        |            |            |                  | -          |            |  |
| Total electricity consumption in kWh                                     | 10,088,941 | 9,793,714  | 9,078,147  | 8,598,906  | 8,971,115  | 19,717,828 | 15,944,268 | 16,329,602       | 17,620,037 | 18,719,247 |  |
| Total electricity consumption per staff member in kWh                    | 1,835      | 1,628      | 1,509      | 1,370      | 1,380      | 1,082      | 841        | 819              | 876,924    | 940        |  |
| Green electricity percentage   | 93%        | 94%        | 94%        | 94%        | 93%        |            | Data no    | ot mapped in the | CSH        |            |  |
| Heating/Cooling energy   |            |            |            |            |            |            |            |                  |            |            |  |
| Total heating/cooling energy in kWh                                      | 13,925,530 | 13,148,410 | 14,100,941 | 11,775,697 | 11,539,220 | 7,083,143  | 7,382,315  | 6,464,927        | 3,926,957  | 4,363,030  |  |
| Total heating/cooling energy per staff member in kWh                     | 2,533      | 2,186      | 2,345      | 1,876      | 1,775      | 389        | 389        | 324              | 195        | 219        |  |
| Percentage of heating energy from renewable sources                      | 12%        | 19%        | 59%        | 57%        | 71%        |            | Data no    | ot mapped in the | CSH        |            |  |
| Fuel for company vehicles and generators                                 |            |            |            |            |            |            |            |                  |            |            |  |
| Total energy consumption from motor vehicle fuel in kWh                  | 94,826     | 49,087     | 50,837     | 36,309     | 60,018     | 46,036,759 | 33,483,739 | 37,654,530       | 43,728,348 | 38,866,303 |  |
| Total energy consumption from motor vehicle fuel per staff member in kWh | 18         | 8          | 9          | 6          | 10         | 2,526      | 1,766      | 1,888            | 2,176      | 1,951      |  |
| Total energy consumption by generators in kWh                            | 5,498      | 24,343     | 10,705     | 18,707     | 0          | 7,439,677  | 9,313,409  | 5,967,327        | 10,714,498 | 9,542,870  |  |
| Total energy consumption by generators per staff member in kWh           | 1          | 4          | 2          | 3          | 0          | 408        | 491        | 299              | 533        | 479        |  |

<sup>11</sup> Due to improved data quality, these figures differ in part from previously published data.

| Water Consumption <sup>12</sup>                        |        |        | Germany |        |        |         |         | Abroad  |         |         |
|--|--------|--------|---------|--------|--------|---------|---------|---------|---------|---------|
|  | 2019   | 2020   | 2021    | 2022   | 2023   | 2019    | 2020    | 2021    | 2022    | 2023    |
| Total drinking water consumption in m <sup>3</sup>     | 50,678 | 33,535 | 30,465  | 27,527 | 26,429 | 608,612 | 490,075 | 361,484 | 395,006 | 364,576 |
| Total drinking water consumption per staff member in l | 9,219  | 5,574  | 5,065   | 4,386  | 4,065  | 33,390  | 25,845  | 18,124  | 19,659  | 18,301  |

<sup>12</sup> Due to improved data quality, some of these figures differ from previously published data.

| Paper Consumption <sup>13</sup>                        | Germany Abroad |           |           |           |           |            |            |            |            |            |
|--|----------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|
|  | 2019           | 2020      | 2021      | 2022      | 2023      | 2019       | 2020       | 2021       | 2022       | 2023       |
| Paper consumption (sheets)                             | 11,897,087     | 6,225,693 | 5,140,153 | 4,738,544 | 3,589,316 | 73,673,934 | 43,849,811 | 46,127,561 | 42,972,940 | 36,958,001 |
| Per-capita paper consumption (sheets per staff member) | 2,164          | 1,035     | 855       | 755       | 552       | 4,042      | 2,313      | 2,313      | 2,139      | 1,855      |
| Percentage of recycled paper used                      | 95%            | 100%      | 100%      | 100%      | 100%      | 15%        | 16%        | 13%        | 22%        | 24%        |

<sup>13</sup> Due to improved data quality, these figures abroad for 2021 and 2022 deviate in part from previously published data.

| Waste  | Germany |      |      |      |      |      | Abroad                     |      |      |      |  |  |  |
|--|---------|------|------|------|------|------|----------------------------|------|------|------|--|--|--|
|  | 2019    | 2020 | 2021 | 2022 | 2023 | 2019 | 2020                       | 2021 | 2022 | 2023 |  |  |  |
| Total non-hazardous waste in t                   | 1,009   | 694  | 781  | 807  | 807  |      |                            |      |      |      |  |  |  |
| Total non-hazardous waste per staff member in kg | 184     | 115  | 130  | 129  | 124  |      |                            |      |      |      |  |  |  |
| Total residual waste in t                        | 303     | 169  | 205  | 187  | 182  |      |                            |      |      |      |  |  |  |
| Total residual waste per staff member in kg      | 55      | 28   | 34   | 30   | 28   |      | Data not mapped in the CSH |      |      |      |  |  |  |
| Total paper waste in t                           | 283     | 188  | 211  | 215  | 209  |      |                            |      |      |      |  |  |  |
| Total paper waste per staff member in kg         | 51      | 31   | 35   | 34   | 32   |      |                            |      |      |      |  |  |  |
| Total hazardous waste in t                       | 5       | 15   | 12   | 14   | 13   |      |                            |      |      |      |  |  |  |

| Biodiversity  | Germany                      |         |         |         |         | Abroad |          |      |      |      |  |  |
|---|------------------------------|---------|---------|---------|---------|--------|----------|------|------|------|--|--|
|   | 2019                         | 2020    | 2021    | 2022    | 2023    | 2019   | 2020     | 2021 | 2022 | 2023 |  |  |
| Usable space in m²  | 157,352                      | 159,870 | 162,240 | 161,589 | 155,333 |        |          |      |      |      |  |  |
| Usable space per staff member in m²                         | 29                           | 27      | 27      | 26      | 24      |        |          |      |      |      |  |  |
| Sealed outer surface in m <sup>2</sup>                      |                              | 35,610  | 38,076  | 38,076  | 42,455  |        | Data not | l    |      |      |  |  |
| Grünflächen (nicht versiegelt) in m²                        | —— Data not yet ——<br>mapped | 51,486  | 48,379  | 48,379  | 48,284  |        |          |      |      |      |  |  |
| Near-natural, biodiversity-friendly areas in m <sup>2</sup> |                              | 28,908  | 31,292  | 31,322  | 31,184  |        |          |      |      |      |  |  |

## Notes on calculation methods

For Germany, data on the amount of energy, water and paper we use and the waste we produce is compiled and submitted to the Sustainability Office by the participating organisational units at our six EMAS sites in Bonn, Eschborn, Berlin (two locations), Bonn-Röttgen and Feldafing. All consumption figures are reviewed and verified for plausibility. The corresponding figures for smaller non-EMAS locations are extrapolated from this compiled data. Also, we calculate an approximate figure to indicate the resources consumed by a single, statistically average employee. This figure is then multiplied by the number of employees at our smaller locations to represent consumption levels at sites without EMAS validation. Outside Germany, consumption data for energy, water and paper are compiled and totalled using the CSH. There have been consistent improvements in data availability and quality in recent years. The CSH data is also verified for plausibility; any discrepancies are clarified. Within the scope of the query zero values that indicate zero consumption are distinguished from zero values which indicate missing data. If specific data of a country is missing, it will be extrapolated using the country average. In the case of missing data about an environmental aspect it will be compiled using the related division average. Thereby, the data basis will be completed.

The climate and environmental figures per employee shown in the report are based on the number of full-time equivalent (FTE) posts for the corresponding years. These notes on our calculation methods apply to the current reporting year. The figures for Germany are the totals as at 31 May 2024. Due to better availability of data, some figures have been updated for 2021 and 2022. There were major adjustments in the calculation for 2022. The reason was that the data from 2023 opened up new possibilities for plausibility checks, as the effects of the Corona pandemic distorted the data to a lesser extent. In addition, errors in the Excel system were corrected and the process improved.

Both EMAS and the CSH provide consumption data for calculating GIZ's greenhouse gas (GHG) emissions. In doing so, we are guided by the international standard known as the Greenhouse Gas Protocol (GHGP). The GHGP distinguishes between direct and indirect emissions within three scopes:

- → Scope 1: Direct sources of GHG emissions that are owned or controlled by the company, such as fuel for cars or generators and heating energy from combustion processes;
- → Scope 2: Indirect emissions from purchased energy such as electricity or district heating/cooling;
- → Scope 3: Other indirect emissions generated along the upstream and downstream value chain that are therefore also within the responsibility of the company (e.g. goods and services purchased, business flights and commuting).

Changes to the assessment system were made as of 2021 so that GHG emissions could be calculated in accordance with the requirements of the Science Based Targets initiative (SBTi). Wherever possible, these changes were also made retroactively to ensure data comparability. We do not have raw data for all emissions categories. In light of this, we have to estimate some emissions in our upstream and downstream value chain. For this reason, we performed a Scope 3 screening to obtain a complete picture with the SBTi in mind and to make our progress towards objectives transparent. One considerable challenge lies in the lack of primary data in the value chain, especially for procurement. An activity-based accounting method is currently being developed for the procurement of services. Emissions from the procurement of material goods and capital goods, on the other hand, are not part of the reduction targets. Only estimates based on the expenditure-based method are available here. This means that they cannot be controlled directly.

The emission factors for heating energy from combustion processes, such as biomethane and natural gas, and fuels for cars and generators are taken from the Global Emission Model for Integrated Systems (GEMIS) 5.0 and from the UK Department for Environment, Food and Rural Affairs (DEFRA) (2022), and refer to emission factors without the upstream chain. In Germany, we also use utility-specific emission factors.

The global warming potential (GWP) from **coolants** is determined using conversion factors specified by the Intergovernmental Panel on Climate Change (IPCC) IV. In Germany, this calculation is based on actual reported amounts of coolant refilled during maintenance work. Since 2019, we have also compiled data on coolant emissions from our operations outside Germany. These figures are based on whole life-cycle emissions.

The emission factors for **electricity** in Germany are published by the German Environment Agency (2023) and refer to emission factors without the upstream chain. Outside Germany, GHG emissions from electricity consumption are calculated on the basis of country-specific emission factors set by the International Energy Agency (IEA 2023).

The emission factors for **district heating and cooling** are based on specific data provided by each energy supplier. Where this information is not available, emission factors from DEFRA (2021/22) are used.

GHG emissions from **purchased goods and services** are estimated with the help of the Scope 3 Evaluator from the Greenhouse Gas Protocol and Quantis based on WIOD (2015) emission factors.

The emission factors for **fuel and energy-related emissions** (excluding the upstream value chain) are taken from the respective source for each energy type, for instance the German Environment Agency for electricity and GEMIS 5.0 or DEFRA 2022 and 2023 for natural gas. Where emission sources are not differentiated, figures from DEFRA 2022 were used.

GHG emissions from **business flights** are calculated using the German Business Travel Association (VDR) standard. We then apply a radiative forcing index (RFI) factor of 2.7 to reflect the additional greenhouse effect of high-altitude emissions. All business flights booked via our German travel agency are reported by it to an external service provider once a year. Outside Germany, the local travel agencies under contract with GIZ pass raw data for all flight bookings to an external service provider. These service providers then calculate the data for specific employee groups and, outside of Germany, for every country office. Emissions for rail travel in Germany are calculated using the data specifically provided for GIZ by Deutsche Bahn.

GHG emissions from **commuting** in Germany were compiled using the results of a mobility survey and calculated using emission factors from the German Environment Agency. Due to new findings and updating of emission factors, the data from 2022 onwards are only comparable with previous years to a limited extent. For operations outside Germany, a mobility survey was also piloted in 2021, initially involving approximately 550 employees from 11 GIZ partner countries in different parts of the world. Per capita GHG emissions were then extrapolated.

In addition to GHG emissions, the tables summarising our climate and environmental data also take into account **other air pollutants** such as nitrogen oxides ( $NO_X$ ), sulphur dioxide ( $SO_2$ ) and particulate matter (PM10) in Germany. The total figures for these additionally recorded air pollutants come from building-related emissions (e.g. from electricity and district heating/cooling), company cars and commuting. Emission factors are taken from the GEMIS 5.0 database.

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