

February 2024

Scope 3 GHG Inventory Report

Contents

1.	Introduction	. 1
2.	Descriptive information	. 2
	Greenhouse gas emissions data	
4.	Biogenic carbon emissions	. 6
5.	Description of scope 3 methodologies and data used	. 7

1. Introduction

The calculation of BASF's Scope 3 emissions is based on the Greenhouse Gas Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard, the Guidance for Accounting and Reporting Corporate GHG Emissions in the Chemical Sector Value Chain (WBCSD) and the Guidance on Scope 3.1 Calculation on Corporate Level (Together for Sustainability, The Product Carbon Footprint Guideline for the Chemical Industry, Chapter 4, Version 2.0 – November 2022). The Scope 3 emissions are calculated by category in accordance with the guidelines of the GHG Protocol Standard (at least "minimum boundaries").

2. Descriptive information

Descriptive information	Company response		
Company name	BASF		
Description of the company	At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and socresponsibility. More than 111,000 employees in the BASF Grocontribute to the success of our customers in nearly all sectors a almost every country in the world. Our portfolio comprises segments: Chemicals, Materials, Industrial Solutions, Surfatechnologies, Nutrition & Care and Agricultural Solutions. BA generated sales of €87.3 billion in 2022. BASF shares are trade on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the United States. Furth information at www.basf.com.		
Chosen consolidation approach (equity share, operational control or financial control)	The emissions of BASF SE subsidiaries that are fully consolidated in the Group financial statements in which BASF holds an interest of less than 100% are included in full. The emissions of proportionally consolidated joint operations are disclosed pro rata according to BASF's interest.		
Description of the businesses and operations included in the company's organizational boundary (Description of the inventory boundary, including an outline/description of the organizational (scope 1) boundaries of the reporting company)	BASF reports scope 1 and scope 2 emissions from all production sites of fully consolidated companies and proportionally consolidated joint operations worldwide. We do not report GHG emissions from mobile combustion and from facilities other than production and power plants. GHG emissions from equity-accounted joint ventures and equity-accounted associated companies as well as from subsidiaries and associated companies that are not financially consolidated due to immateriality are not included in BASF's scope 1 or scope 2 emissions. The GHG emissions from equity-accounted joint ventures and equity-accounted associated companies are reported in category 15 of scope 3 emissions. Scope 3 emissions are reported for all BASF Group companies included in the Consolidated Financial Statements on a full or proportional basis, unless stated otherwise. The emissions of joint operations are included pro rata, based on BASF's stake. Relevant scope 3 emissions categories (> 1 million t CO ₂ equivalents) that are part of BASF's Scope 3 emissions inventory are:		
	Category 1: Purchased goods & services		
	Category 2: Capital goods		
	 Category 3: Fuel- and energy-related activities (not incl. in Scope 1 or 2) 		
	Category 4: Upstream transportation and distribution		
	Category 5: Waste in Operations		
	Category 9: Downstream transportation and distribution		

- Category 11: Use of sold products
- Category 12: End-of-life treatment of sold products
- Category 15: Investments

The reporting period covered

01/01/2023 -12/31/2023

A list of scope 3 activities included in the inventory

Category 1: Purchased goods & services

Category 2: Capital goods

Category 3: Fuel- and energy-related activities (not incl. in Scope

1 or 2)

Category 4: Upstream transportation and distribution

Category 5: Waste generated in operations

Category 6: Business travel

Category 7: Employee commuting

Category 8: Upstream leased assets

Category 9: Downstream transportation and distribution

Category 11: Use of sold products

Category 12: End-of-life treatment of sold products

Category 15: Investments

A list of scope 3 activities excluded from the report with justification for their exclusion

Category 10 (Processing of sold products):

BASF does not calculate and report GHG emissions from processing of sold products. This is the result of a thorough analysis and balancing of the different relevance criteria for Scope 3 emissions sources and the five accounting and reporting principles of the GHG Protocol standards by WRI and WBCSD. BASF produces a large variety of intermediate goods. This application diversity cannot be tracked reasonably, and reliable figures on a yearly basis are virtually impossible to obtain. These circumstances strongly compromise the reporting principles completeness, consistency, and accuracy (and feasibility), thereby not serving our business goal of reducing GHG emissions along the value chain. In addition, the WBCSD Chemical Sector Standard "Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain" emphasizes that "chemical companies are not required to report Scope 3, category 10 emissions, since reliable figures are difficult to obtain, due to the diverse application and customer structure".

Category 13 (Downstream leased assets): Not relevant (about 5% of upstream leased assets according to BASF expert judgement).

Category 14 (Franchises): Not relevant for BASF as we do not own or operate franchises.

GHG emissions from BASF trading business are excluded.

Once a scope 3 base year has been established, the year chosen as base year and rationale for choosing the base year By 2030, we want to reduce our raw materials-related Scope 3.1 in relation to the purchasing volume specifically by 15% from the 2022 baseline. This does not initially include raw materials-related emissions from battery materials, which we intend to further expand in the coming years.

Once a base year has been established, scope 3 emissions in the base year	1.58 kilograms of CO ₂ equivalents per kilogram of raw material purchased
Once a base year has been established, the chosen base year emissions recalculation policy and context for any significant emissions changes that trigger base year emissions recalculations	No recalculation policy published yet.

3. Greenhouse gas emissions data

Scopes and categories	Metric tons CO₂e	Percentage of scope 3 emissions		
Scope 1: Direct emissions from owned/controlled operations	15,562,000	-		
Scope 2, market-based ¹ : Indirect emissions from the use of purchased electricity, steam, heating, and cooling	2,289,000	-		
Certificates sold to third parties (VCUs)	0	-		
Upstream scope 3 emissions				
Purchased goods and services	47,418,000	56%		
Capital goods	1,637,000	2%		
Fuel- and energy-related activities (not included in scope 1 or scope 2)	2,037,000	2%		
Upstream transportation and distribution	1,736,000	2%		
Waste generated in operations	1,088,000	1%		
Business travel	78,000	0%		
Employee commuting	173,000	0%		
Upstream leased assets	196,000	0%		
Downstream scope 3 emissions				
Downstream transportation and distribution	1,301,000	2%		
Use of sold products	2,753,000	3%		
End-of-life treatment of sold products	24,067,000	28%		
Investments	2,851,000	3%		

¹The location-based Scope 2 emissions amount to 3,317,000 metric tons CO₂e.

Greenhouse gas emissions	CO ₂		CH₄	
	Metric tons CO2	Metric tons CO₂e	Metric tons CH₄	Metric tons CO₂e
Scope 1 ¹	15,272,000	15,272,000	908	25,000
Scope 2	2,289,000 ²	2,289,000 ²	-	-

Greenhouse gas emissions	N₂O		HFCs	
	Metric tons N₂O	Metric tons CO₂e	Metric tons HFCs	Metric tons CO₂e
Scope 1 ¹	901	239,000	38	26,000
Scope 2	-	-	-	-

Greenhouse gas emissions	PFCs		SF ₆	
	Metric tons PFCs	Metric tons CO₂e	Metric tons SF	Metric tons CO₂e
Scope 1 ¹	0	0	0	0
Scope 2	-	-	-	-

 $^{^1}$ Emissions of N₂O, CH₄, HFC and SF₆ have been translated into CO₂ emissions using the Global Warming Potential, or GWP factor. GWP factors are based on the Intergovernmental Panel on Climate Change (IPCC) 5th Assessment Report, 2014. HFC (hydrofluorocarbons) are calculated using the GWP factors of the individual components. 2 Market-based approach. The location-based Scope 2 emissions amount to 3,317,000 metric tons CO₂e.

4. Biogenic carbon emissions

Scope 1 - Use of biomass: 112,000 metric tons CO₂e.

Scope 3.12 - End-of-life treatment of sold products: 783,000 metric tons of CO2e.

5. Description of scope 3 methodologies and data used

Information on methodologies and data used

Description of the types and sources of data used to calculate emissions

Description of the methodologies, allocation methods, and assumptions used to calculate emissions

We calculated the GHG emissions of the raw

Upstream scope 3 emissions

Category 1

Purchased goods and services

Activity data (primary data):

Quantity and monetary purchasing volume of the goods and services purchased in the reporting year were obtained from BASF internal business data management systems.

Emissions factors:

- a) Raw materials and packaging: Cradle-to-gate emissions factors for raw materials are collected from our suppliers. Where supplier-specific data was not available, the emissions factors were obtained from commercially and publicly available data sources such as GaBi (Sphera), ecoinvent or industry association data.
- b) Technical goods & services: Supply chain emissions factors for spending on products and services were obtained from the 2014 Guidelines to DEFRA/DECC's GHG Conversion Factors for Company Reporting, Annex 13 (indirect emissions from supply chain).

materials we procured (including merchandise) by multiplying the quantities received by the cradle-to-gate emissions factors. The CO2e emissions factors used are either supplierspecific values, if available, or regional and technology-specific CO2e emissions factors from secondary databases. If no suitable PCF values could be found in the databases, the missing emissions factors were estimated using own data models or derived from the mean value of chemicals in the same chemical group. To calculate emissions from packaging, we determined the material compositions of the different packaging groups and then calculated the GHG emissions by multiplying the number of packaging items purchased by their respective cradle-to-gate emissions factors. GHG emissions from technical goods and services were calculated based on the monetary purchasing volume in the year under review by multiplying the amount of expenditure (adjusted for inflation and taking into account VAT) by the GHG conversion factors from the DEFRA 2014 Guidelines.

Description of the data quality of reported emissions* Percentage of emissions calculated using data obtained from suppliers or other value chain partners

Good 12%

Category 2 Capital goods

Activity data (primary data):

Monetary purchasing volumes of capital goods purchased in the reporting year were obtained from BASF's internal business data management systems.

Emissions factors (secondary data):
Supply chain emissions factors for spending on capital goods were obtained from the 2014 Guidelines to DEFRA/DECC's GHG Conversion Factors for Company Reporting, Annex 13 (indirect emissions from supply chain)

The GHG emissions associated with BASF's capital goods were estimated based on the following approach: All sub-segments of BASF's global Technical Procurement related to the sourcing of capital equipment were analyzed based on their monetary purchasing volume in the reporting year. Each subsegment was assigned a corresponding SIC code since the DEFRA/DECC's conversion factors for greenhouse gas emissions are based on the standard classification system (SIC 2007). The amount of spending (with inflation adjustment and considering VAT) was then multiplied by the respective GHG conversion factor and subsequently added up to the total GHG emissions from capital goods.

Description of the data quality of reported emissions* Percentage of emissions calculated using data obtained from suppliers or other value chain partners Fair

0%

Category 3

Fuel- and energy-related activities (not included in scope 1 or scope 2) Activity data (primary data):

The quantities of fuel and energy, i.e., electricity and steam purchased in the reporting year were obtained from BASF internal business data management systems.

Emissions factors (secondary data): The cradle-to-gate emissions factors were obtained from the GaBi database. The grid related loss factor and the fuel shares of electricity generation were taken from IEA, International Energy Agency, Electricity Statistics (most recent year available).

The GHG emissions from the extraction, production and transportation of fossil fuels used for power and steam generation in BASF's owned (power) plants were determined by multiplying the amount of purchased fuels by their respective, region-specific cradle-to-gate CO₂e emissions factors. The GHG emissions from the extraction, production and transport of fuels consumed in the generation of electricity and steam purchased by BASF in the reporting year were calculated as follows: The amount of primary energy was determined based on the amount of purchased electricity and steam and the respective fuel efficiencies. The share of the different fuel types of the total amount of primary energy was calculated for each region based on the fuel shares of electricity generation. The fuel shares were then multiplied by the respective region-specific CO₂e emissions factors to result in the overall GHG emissions. Generation of electricity. steam. heating, and cooling consumed in a T&D system: GHG emissions associated with losses of purchased electricity and steam were estimated based on our Scope 2 emissions and a grid-related loss factor. Generation of electricity and steam purchased by the reporting company and sold to end users is not applicable to BASF.

Description of the data quality of reported emissions* Percentage of emissions calculated using data obtained from suppliers or other value chain partners

Good

0%

Category 4

Upstream transportation and distribution

Activity data (primary data):

Quantities, types of goods and regional split of purchase in the reporting year as

split of purchase in the reporting year as well as origin and destination points, mode of transport and load factors were obtained from BASF internal business data management systems.

Emissions factors (secondary data): The CO₂e emissions factors used were taken from the GLEC Framework.

For quantification of **GHG** the BASF's emissions from internal the emissions factors transports incorporated in the ΙT solution EcoTransIT World were used (//www.ecotransit.org/).

GHG emissions associated with the transport of raw materials purchased by BASF in the reporting year were calculated by multiplying the quantities of products procured by a transportation distance and by an emissions factor for the mode of transport. For largevolume raw materials (representing about 50% of the purchasing volume), the mode of transport and the transport distance were determined substance-specifically. For the remaining raw materials transportation distances of each region were estimated by logistics experts. For procured products in Europe, the modal split from a Cefic survey for chemical transports was used; for all other regions, only truck transport was assumed. The GHG emissions from BASF internal transports were calculated based on detailed transport data using the EcoTransIT World business solution. GHG emissions associated with the

Description of the data quality of reported emissions*

Percentage of emissions calculated using data obtained from suppliers or other value chain partners

transportation of technical & capital goods purchased by BASF were calculated based on an estimated weight for capital and technical goods derived from the monetary purchasing volume and an assumed material content. Weight of purchased packaging was calculated based on material composition. Only truck transportation was assumed for the transport of technical goods.

Fair

0%

Category 5

Waste generated in operations

Activity data (primary data):

The quantities of solid waste and wastewater generated during production at all BASF production sites were obtained from BASF's in-house EHS database. The data collection method differentiates between on-site and off-site disposal as well as between different disposal methods (waste incineration with and without energy recovery, landfill, physical recovery, wastewater treatment and others).

Emissions factors (secondary data): The emissions factors were obtained from the GaBi database. The GHG emissions from off-site waste incineration with energy recovery were calculated by multiplying the amount of waste in this category by a suitable CO2e emissions factor. The GHG emissions of off-site physical recovery (recycling) of waste was assessed following the cut-off approach in life cycle assessment. The GHG emissions from off-site waste incineration without energy recovery as well as from landfill disposal were calculated based on a carbon balance. It was assumed that all carbon contained in the waste is eventually converted to CO₂ during incineration or landfilling. Multiplying the amount of waste by the carbon content of the waste yields the waste's total carbon content which is then converted to the amount of emitted CO₂.

The GHG emissions from other solid waste disposal methods were calculated multiplying the amount of waste with a landfill emissions factor for inert plastic waste. The CO₂e emissions from non-BASF operated wastewater treatment plants were calculated based on a TOC (Total Organic Carbon) material balance. It is assumed that 30% of the influent organic carbon load is insoluble and inert, as well as the non-biodegradable TOC in the effluent. It is also assumed that 25% of the remaining bio-treatable TOC is converted into bio-sludge during biotreatment. The residual TOC, which is about 50% of the total influent TOC, is converted into CO₂. The CO₂ emissions were calculated from the residual TOC with a conversion factor of CO₂/TOC=3.67.

Description of the data quality of reported emissions*

Percentage of emissions calculated using data obtained from suppliers or other value chain partners

Category 6 Business travel

Activity data (primary data): Miles, kilometers, and tank-to-wheel (TTW) greenhouse gas emissions per means of transportation travelled by

Good

0%

The GHG emissions associated with the transportation of all BASF Group employees for business-related activities were calculated as follows:

BASF employees in the reporting year were directly reported by external partners (e.g., travel agencies) and provided to BASF's Travel Management.

Emissions factors (secondary data): CO_2e conversion factors for short-haul, medium-haul and long-haul flights by flight class, including radiative forcing and fuel pre-chain emissions (well-to-tank) were taken from DEFRA's GHG Conversion Factors for Company Reporting (2023).

CO₂e conversion factors for travel by train per rail type were taken from DEFRA's GHG Conversion Factors for Company Reporting (2023).

Description of the data quality of reported emissions

Percentage of emissions calculated using data obtained from suppliers or other value chain partners

Category 7 Employee commuting

Activity data (primary data):

Number of employees per region as well as distance and mode of transportation for a selected group of employees in Germany, who participated in a poll in 2017.

Emissions factors (secondary data): The CO₂e emissions factors used for motorbike, car, and public transportation were taken from DEFRA's GHG Conversion Factors for Company Reporting (2023) for the regions Europe and Asia and EPA's Emission Factors for Greenhouse Gas Inventories (2023) for North and South America.

- a) GHG emissions from business travel by air: Miles were converted to well-to-tank (WTT) CO₂ equivalents based on the conversion factors including radiative forcing per passenger class type in short-haul, medium-haul and long-haul flights. These WTT values were then combined with the reported TTW CO₂ equivalents to achieve a full life cycle analysis of GHG emissions generated from air travel.
- b) GHG emissions from business travel by train: Rail miles were converted into WTT CO₂e emissions, using railway specific CO₂e conversion factor for travel by train. These WTT values were then combined with the reported TTW CO₂ equivalents to achieve a full life cycle analysis of GHG emissions generated from rail travel.
- c) GHG emissions from business travel by car: External partners (i.e., car rental companies) provided a summary of kilometers driven and the resulting GHG emissions for the reporting year.

Good

5%

GHG emissions from employee commuting in Europe were calculated based on the results of a representative poll conducted among BASF SE employees in 2017. The share of employees working from home were calculated based on 14.5% for Germany and 12.3% for the rest of Europe (Source: WEF). GHG emissions were calculated by multiplying the travelled distance (202 days per year, back and forth) by the respective CO₂e emissions factor accounting for the different means of transportation. The resulting GHG emissions were subsequently extrapolated to all BASF Group employees in Europe.

For North America, the calculations were based on Bureau of Transportation Statistics on principal means of transportation to work. It was assumed that employees travel 233 days per year and 30 kilometers one-way.

For Asia the calculation was based on data from Statista (Deskmag 2017 & McKinsey 2021) and assumes that employees travel 224 days per year and 30 kilometers one-way.

For South America, it was assumed that all employees travel 30 km by car (one-way) and 253 days per year. The corresponding emissions were calculated by multiplying the distance by the number of employees, number of working days and emissions factors per means of transportation.

Description of the data quality of reported emissions*

Percentage of emissions calculated using data obtained from suppliers or other value chain partners

Fair

0%

Category 8

Upstream leased assets

Activity data (primary data)

Leased cars: Vehicle miles as defined in the leasing contracts for BASF SE employees in the reporting year.

Leased office and storage space: Leased office and storage space for the reporting year was obtained from BASF internal business data management systems.

Leased equipment: The monetary purchasing volume for leased equipment in the reporting year was derived from BASF internal business data management systems.

Emissions factors (secondary data): The CO₂ emissions factors for leased cars were provided by the car manufacturers. They differentiate between fuel type (diesel/gasoline) as well as cubic capacity. For electric cars the electricity consumption of the models was taken from the manufacturer's specification.

The energy consumption (electricity and heat energy) per square meter of office space and warehouses in Europe was taken from a study of the German Federal Ministry for Economic Affairs and Energy (BMWi, 2015). For North America and South America, it was taken from the Commercial Buildings Energy Consumption Survey (EIA, 2018). For Asia, it was taken from a study by Ding et al., 2017.

Region-specific CO₂ emissions factors per MWh were obtained from IEA, 2023.

For assessing the GHG emissions from leased equipment the emissions factors were taken from the 2014 Guidelines to DEFRA/DECC's GHG Conversion Factors for Company Reporting, Annex 13 (indirect emissions from supply chain).

Description of the data quality of reported emissions*
Percentage of emissions calculated using data obtained from suppliers or other value chain partners

GHG emissions from leased assets were calculated for three different categories.

- 1) Leased cars: GHG emissions from cars leased by BASF SE were calculated by multiplying the vehicle miles travelled, which were derived from the respective leasing contracts, by the relevant CO2 emissions factors. Since only the leasing contracts of BASF SE were evaluated, the resulting GHG emissions were subsequently extrapolated based on the number of employees to account for the entire BASF Group. Emissions from electric cars leased by the BASF Group were similarly extrapolated from BASF SE leasing data. The total electricity consumption of all electric cars leased by BASF SE was determined by multiplying the vehicle miles travelled with the respective vehicle model's electricity consumption. This electricity consumption was extrapolated to the BASF Group and then distributed to the four regions (Europe, Asia, North America, South America) based on the share of employees. For each the electricity consumption multiplied by a region-specific electricity emissions factor. The resulting GHG emissions per region were then added up to yield the total GHG emissions from leased electric vehicles.
- 2) Leased offices and storage space: The GHG emissions from leased offices and storage space were assessed based on the leased space (in square meters) and the annual energy consumption per square meter of office and storage space, respectively. Only for Asia no distinction was made between office and storage space.
- 3) Leased Equipment: The GHG emissions from leased equipment such as hardware (i.e., computers or printers) were assessed based on the monetary purchasing volume in the reporting year (with inflation adjustment and considering VAT) and the corresponding GHG conversion factors.

Fair

0%

Information on methodologies and data used

Description of the types and sources of data used to calculate emissions

Description of the methodologies, allocation methods, and assumptions used to calculate emissions

Downstream scope 3 emissions

Category 9

Downstream transportation and distribution

Activity data (primary data):

Quantities of product, origin and destination points, mode of transport and load factors were obtained from BASF internal business data management systems.

Emissions factors (secondary data): The emissions factors incorporated in the IT solution EcoTransIT World were used (//www.ecotransit.org/).

Description of the data quality of reported emissions*
Percentage of emissions calculated using data obtained from suppliers or other value chain partners

For the calculation of the GHG emissions associated with the transport of BASF products sold in the reporting year, the respective shipments from BASF sites to BASF customers were evaluated using the EcoTransIT World

Good

business solution.

0%

Category 11

Use of sold products

Activity data (primary data):

Quantities and types of products sold in the reporting year were obtained from BASF internal business data management systems.

Emissions factors (secondary data): not applicable. GWPs were taken from the Sixth Assessment Report, IPCC, 2021.

Chemical products vary strongly in their GHG emissions during their use phase. Most chemical products neither cause nor prevent GHG emissions. For the calculation of the GHG emissions associated with the use of sold BASF products we only considered the direct use-phase emissions of sold products over their expected lifetime, i.e., the GHGs and products that contain or form GHGs that are emitted during use.

- 1) GHG emissions from products sold in the reporting year that form greenhouse gases: Nitrogenous fertilizers release nitrous oxide (N2O) to the atmosphere because of microbial action in the soil. The associated GHG emissions were calculated based on the amount of N-containing fertilizers sold in the reporting year, the nitrogen content and on the fact that about 1% (in the presence of a nitrification inhibitor only 0.5%) of the nitrogen contained in the fertilizer is converted into N2O-N. CO₂ from the use of urea (as fertilizer and diesel exhaust liquid) and from carbonates (used as leavening agent) was calculated based on the sold product quantity and the contained CO₂ amount.
- 2) GHG emissions from products sold in the reporting year that contain greenhouse gases such as dry ice, CO_2 as gas for the beverage industry and HFCs as foaming agents to produce polyurethane foams: GHG emissions from dry ice and CO_2 sold to the beverage industry were considered based on the sold quantity. GHG emissions from HFCs were calculated based on the procured HFC-

Description of the data quality of reported emissions*
Percentage of emissions calculated using data
obtained from suppliers or other value chain partners

quantities and the loss rate of HFCs in the polyurethane foams during their use phase (100% over the entire life cycle).

Good

0%

Category 12

End-of-life treatment of sold products

Activity data (primary data):

Quantity of products sold in the reporting year in the different regions and their carbon content were obtained from BASF internal business data management systems.

The ratio of the different waste disposal methods (incineration, landfill, recycling) in each country/region was derived from data on municipal waste treatment provided by Eurostat (2020), OECD statistics (2017, 2018), the Indian Central Pollution Control Board (2020, 2021), and the Chinese National Bureau of Statistics (2022). The following shares of waste disposal methods were used for the different regions:

Europe: 34% incineration (99% thereof with energy recovery), 29% landfilling, 37% recycling; North America: 12% incineration with energy recovery, 61% landfilling, 27% recycling; Asia: 72% incineration (23% thereof with energy recovery), 20% landfilling, 8% recycling; South America: over 99% landfilling and less than 1% incineration or recycling.

GHG emissions from the disposal of all BASF products (except the products that are already decomposed of during their use phase and accounted for in Category 11) sold in the reporting year were calculated presuming that these products at the end of their lives are either disposed of by landfilling or incineration or recycled. It was assumed that the products would be used and disposed of in the countries to which BASF sold them.

The amount of GHG emissions was calculated separately for each region and end-of-life method. Recycling was assessed using the cutoff approach in life cycle assessment. The emissions from landfilling and incineration were calculated based on a carbon balance. It was assumed that all carbon contained in the products is eventually converted to CO₂ after disposal. The total amount of disposed carbon going into landfilling was determined by multiplying the region's landfilling share by the materials' carbon content This amount of disposed carbon was then converted into the amount of emitted CO2 from landfilling. The same method was applied to determine the emissions from incineration.

Incineration with energy recovery was considered proportionately in Europe, North America and Asia. Thus, a proportion of the calculated emissions from waste incineration in these three regions were allocated to energy generation. For this, the heating value methodology was used by assessing the energy content of the BASF products that are incinerated at the end of their lives. Under the assumption that the efficiency of steam generation is 75% and the incineration plant requires 25% of the steam for its own power requirements, the produced net steam was determined. In accordance with the Guidance for Accounting & Reporting Corporate GHG Emissions in the Chemical Sector Value Chain, the total emissions from incineration with energy recovery was then allocated to the waste treatment and the energy generation by using an economic allocation approach based on the proportions of total costs of waste

Description of the data quality of reported emissions* Percentage of emissions calculated using data obtained from suppliers or other value chain partners		treatment and total revenues from the sale of generated steam and electricity. Good 0%
Category 15 Investments	Activity data (primary data): Scope 1 and scope 2 emissions of BASF's equity-accounted associated companies and joint ventures were obtained from the respective companies upon inquiry.	GHG emissions from equity-accounted joint ventures and equity-accounted associated companies are not included in BASF's scope 1 or scope 2 emissions. The GHG emissions from these companies are evaluated on a regular basis by inquiring these data from the respective companies. GHG emissions were calculated based on BASF's equity share in these companies, but only from non-consolidated companies of which BASF holds a minimum interest of 20%.
Description of the data quality of reported emissions* Percentage of emissions calculated using data		Good 100%

^{*} Subjective evaluation of the data quality of the direct emissions data, activity data, and emissions factors. The type of evaluation according to the criteria (Technology, Time, Geography, Completeness, and Reliability) is based on the GHG Protocol Scope 3 standard (page 77).

obtained from suppliers or other value chain partners

100%