

# SIKA METHODOLOGY FOR SCOPE 3 EMISSIONS CALCULATION

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**BUILDING TRUST** 

### CONTENT

#### OUTLINE

#### MATERIAL SCOPE 3 CATEGORIES

#### GHG EMISSIONS CALCULATION METHODOLOGY FOR MATERIAL

#### OVERVIEW AND SCREENING

DATA INPUT

#### COVERAGE

DATA QUALITY

**EXCLUDED SCOPE 3 CATEGORIES** 

	4
	5
SCOPE 3 CATEGORIES	6
	10
	10
	11
	13
	15

## OUTLINE

The calculation of scope 3 carbon emissions is an evolving topic based on various data sources. Sika is continuously reviewing the calculation methodology to ensure transparency and data ro- strengthen the methodological approach for developing a netbustness. This process helps Sika better understand how it can lower its scope 3 emissions and engage within the organization. Moreover, the identification of material scope 3 categories pro- methodologies. According to the Net-Zero Standard of the SBTi vides detailed information to drive scope 3 reduction initiatives.

This document is a high-level summary of the methodology applied by Sika to calculate its scope 3 greenhouse gas (GHG) emissions.

The scope 3 assessment project is aligned to the recommendations outlined in the "Corporate Value Chain (Scope 3) Accounting and Reporting Standard"<sup>1</sup> and the "Technical Guidance for Calculating Scope 3 Emissions" published by the World Resources Institute (WRI)<sup>2</sup> and World Business Council for Sustainable De- In the chapter "Material scope 3 categories", dedicated sections velopment (WBCSD)<sup>3</sup> as a supplement to the Greenhouse Gas Protocol (GHGP). Additional guidelines used or consulted during the process are referenced in the document.

The assessment covers all entities consolidated in the Group financial statements for FY 2021<sup>4</sup>. An operational control approach, as defined by the GHGP<sup>5</sup>, was applied during the as- categories (coverage), and limitations in data quality. Finally, sessment. This approach considers a company accountable for 100% of the emissions over which the organization or any of its "Excluded scope 3 categories". subsidiaries have operational control.

The Sika scope 3 emissions assessment project took place between January 2021 and September 2022, and it was divided into:

Phase 1: in 2021, Sika completed its first comprehensive scope 3 GHG emissions assessment for the FY 2020 which included the following scope 3 categories:

- **Category 1** Purchased goods and services
- Category 2 Capital goods
- Category 4 Upstream transportation and distribution
- **Category 5** Waste generated in operations
- Category 6 Business travel
- Category 9 Downstream transportation and distribution
- Category 11 Use of sold products
- Category 12 End-of-Life (EoL) treatment of sold products

Corporate Value Chain (Scope 3) Standard | Greenhouse Gas Protocol (ghgprotocol.org)

- World Business Council for Sustainable Development (WBCSD)
- Data from Shenzhen Landun Holding Co., Ltd. (China) and Hamatite (Japan) have been excluded from this assessment for categories 3, 5 and 7 as they were not included in the 2021 Sustainability Reporting.
- Corporate Standard | Greenhouse Gas Protocol 5

Phase 2: in 2022, to cover 90% of all Sika scope 3 emissions, as required by the Science-Based Targets initiative (SBTi)<sup>6</sup>, and to zero strategy, Sika expanded the list of scope 3 categories by adding additional ones and further developing the related "companies must develop a complete scope 3 inventory, which is critical for identifying emission hotspots, reduction opportunities, and areas of risk up and down the value chain". As a result, the following categories were added to the previous list:

- Category 3 Fuel- and energy-related activities
- **Category 7** Employee commuting
- Category 8 Upstream leased assets

describe the applied methodology and assumptions made for each material scope 3 category. In the chapter "GHG emissions calculation methodology for material scope 3 categories", criteria for excluded categories are explained. Moreover, the chapter "Overview and screening" provides information on data used for the scope 3 assessment (data input), exclusions within material identified methodologies limitations are presented in the chapter

### MATERIAL **SCOPE 3 CATEGORIES**

In alignment with the WBCSD sector guidance, a screening of all material categories was conducted. Each category was rated with respect to Sika's influence on the emissions and its size. The related symbols shown in the table below are used to:

- label all categories into low, medium, or large influence. It appears in fact that an assessment of influence helps to

Category	Description	Influence	Size
Purchased goods and services	Upstream emissions (cradle-to-gate) of raw materials, trading products and packaging purchased or acquired by Sika in the reporting year		
Capital goods	Upstream emissions from the production of capital goods purchased or acquired by Sika in the reporting year		
Fuel- and energy-related activities	Extraction, production, and transportation of fuels and energy purchased by Sika in the reporting year, not already accounted for in scope 1 or scope 2		
Upstream transportation and distribution	Transportation and distribution services purchased by Sika, including inbound logistic, outbound logistic (e.g., of sold products), and transportation and distribution between Sika's own facilities (in vehicles and facilities not owned or controlled by Sika)		
Waste generated in operations	Disposal and treatment of waste generated in Sika's operations in the reporting year (in facilities not owned or controlled by Sika)		
Business travel	Transportation of employees for business-related activities (air, train, rail, etc.) during the reporting year (in vehicles not owned or operated by Sika)		
Employee commuting	Transportation of employees between their homes and their worksites during the reporting year (in vehicles not owned or operated by Sika)		
Upstream leased assets	The life cycle emissions associated with manufacturing or constructing leased assets purchased or acquired by Sika in the reporting year	$\bigcirc$	
Downstream transportation and distribution	Transportation and distribution of products sold by Sika between Sika's opera- tions and end consumers (if not paid for by Sika), including retail and storage (in vehicles and facilities not owned or controlled by Sika)		
Use of sold products	The scope 1 and scope 2 emissions of end users that occur from the use of: products that directly consume energy (fuels or electricity) during use; fuels and feedstocks; and GHGs (Greenhouse Gas) and products that contain or form GHGs that are emitted during use		
End-of-Life (EoL) treatment of sold products	Waste disposal and treatment of products and packaging sold by Sika (in the reporting year) at the end of their life		

develop a scope 3 methodology that balances between measuring, reporting, and managing material scope 3 emissions in alignment with any emission reduction strategy;

- indicate the size of each category as the percentage contribution to the full scope 3 inventory.

<sup>2</sup> World Resources Institute

<sup>6</sup> Specifically, long-term targets must cover 90% of scope 3 emissions to be aligned with the SBTi.

### GHG EMISSIONS CALCULATION METHODOLOGY FOR MATERIAL SCOPE 3 CATEGORIES

The GHG emissions topic is continuously evolving, and better knowledge, understanding, and data availability will impact the accuracy and granularity of Sika's scope 3 assessment. For each scope 3 category, a specific methodology, based on the GHGP and the WBCSD chemical sector guidance, has been defined. However, as specifications and availability of both activity and secondary data change, Sika expects scope 3 categories' methodologies to continuously evolve. Identified methodologies limitations are presented in the chapter "Excluded scope 3 categories".

Additionally, the SBTi will publish its Sectoral Decarbonization Approach (SDA) for the chemical sector which will define the realistic reduction pathways to reach net zero in 2050. The chemical and the cement sectors are expected to decarbonize less rapidly than the SBT (Science-Based Targets) Net-Zero absolute contraction trajectory. Methodologies to calculate decarbonization pathways and the related accounting of emissions are continuously evolving. Sika believes the requirements and guidance to calculate a scope 3 inventory will progress based on increasing knowledge and information becoming available over time. For such reason, Sika actively reviews its methodology by participating in various initiatives, such as:

- Together for Sustainability (TfS)<sup>7</sup> workstream on scope 3 GHG emissions, with overall project leadership and active involvement in working groups on methodological approaches, data-sharing solutions and supplier engagement
- WBCSD SOS 1.5 Partnership for Carbon Transparency (PACT)<sup>8</sup>

Sika has identified the following material scope 3 categories and, where necessary, next steps or "Roadmaps" for improving data quality are described.

#### Category 1

Purchased goods and services

The calculation of upstream GHG emissions (cradle-to-gate) of purchased goods and services were structured based on:

- 1. Raw materials: for all raw materials, the average-data method was applied. The quantities purchased were multiplied with the relevant emission factor obtained from life cycle inventory databases. Emission factors were mapped to raw materials using the information available in the procurement spend management system and the EHS database. Geographical and technological representativeness was considered where possible. When a specific dataset was not available, relevant proxies were applied. Research & Development (R&D) experts reviewed the mapped raw material to ensure data governance. The mapping of emission factors was completed for the top 62% (measured by invoiced quantity) of materials. The top materials of each material class were considered. An extrapolation of GHG emissions to the remaining materials was carried out, by considering the average CO<sub>2</sub>-eq. intensity of each material eClass<sup>9</sup>.
- 2. Trading products and packaging: for the calculation of upstream emissions of trading products and purchased packaging, a spend-based methodology was applied. The procurement spend in CHF was multiplied with the relevant monetary emission factor. Trading products and purchased packaging were assigned to categories to match the available monetary emission factors.
- 3. Indirect goods: for the calculation of indirect goods, a spend-based methodology was applied. The procurement spend in CHF was multiplied with the relevant monetary emission factor.

**Roadmap:** in the short term, the focus will be on improvements in the data quality (conversion factors, quantities, location) of purchasing data. In the long-term, Sika aims for supplier-specific data. Sika is part of TfS and is currently chairing TfS workstream 5: scope 3 GHG emissions. In scope of this workstream, Sika supports the work to standardize the measurement of GHG emissions data and to develop data collection and sharing approaches to support efforts to decarbonize the chemical supply chain. Finally, Sika executes continuous review by R&D and procurement to identify issues with data quality.

#### Category 2 Capital goods

For the calculation of GHG emissions associated with capital For the methodology applied to calculate the outbound transgoods, a spend-based methodology was applied. The CAPEX portation paid by Sika, please refer to the section describing (capital expenditure) in CHF was multiplied with the relevant category 9. monetary emission factor. For all infrastructure projects, a mixed monetary emission factor was calculated. This mixed factor was **Roadmap:** improvement and maintenance of local master data based on the ratio of steel, concrete, earthworks, and electrical to be carried out to get the detailed locations of Sika raw mateinstallations within a Sika plant. The ratio was determined from rial suppliers. Furthermore, the rollout of SAP freight module an analysis of representative Sika plant construction projects. will provide more insights on outbound freight.

#### Category 3

#### Fuel- and energy-related activities

GHG emissions associated with fuel- and energy-related activities GHG emissions from waste treatment were based on data obwere based on data obtained from the Sika Sustainability and tained from the Sika S&O corporate reporting system. Waste by Operations (S&O) corporate reporting system. To calculate the fuelweight was collected at factory level through the quarterly Sika corporate reporting system. This reporting includes production related Well-to-Tank (WTT) emissions, the Group consumption per fuel category – collected at factory level through the quarterly Sika waste and non-production waste. The waste is categorized based on destination (landfill, incineration, reuse) and type S&O corporate reporting system – was multiplied with the chosen (hazardous, non-hazardous). The destination "reuse" refers to WTT emission factor. For electricity Transmission & Distribution (T&D) losses, the electricity consumption per Sika country was recycling and reuse in external facilities. The weight of waste multiplied with the relevant country-based emission factors. allocated to relevant destinations was multiplied with appro-Emissions from upstream production and transportation of priate emission factors. All hazardous waste was allocated to purchased electricity were calculated by multiplying the electricity incineration. For recycled waste, average emission factors for consumption with the relevant country-based emission factor. transportation to recycling facility gate were applied.

#### Category 4

#### Upstream transportation and distribution

Total GHG emissions from upstream transportation were calculated by multiplying the tons purchased with the kilometers shipped and with the relevant emission factors, taking geographical differences into consideration. Uplifts on vessel transportation were included in alignment with the Global Logistics Emissions Council (GLEC) Framework<sup>10</sup>. For countries integrated in the SAP software, the distance (kilometers) between the Sika entity and suppliers was calculated based on postal codes using an automated distance calculation solution (BING). Supplier postal codes<sup>11</sup> were extracted from SAP from purchasing invoices. Distances calculated for SAP transactions were averaged and applied to non-SAP transactions as default distances. Tons shipped were based on quantities purchased as reported in the procurement spend management system. Currently, data on inbound transportation mode is not reported nor collected. It was assumed that all goods are transported by truck and/or vessel. For vessel transportation, each country was assigned a default harbor.

7 TfS Initiative

8 WBCSD - Partnership for Carbon Transparency (PACT)

9 Materials are classified into eClasses by Procurement. EClass refers to the most granular segmentation available and is based on chemical functions.

In accordance with the GHGP guidelines, the outbound transportation paid by Sika is included in category 4, whereas the outbound transportation paid by customers falls under category 9.

#### Category 5

#### Waste generated in operations

Roadmap: from 2022 onwards, the S&O corporate reporting system will be more granular on waste. Waste disposal will be further detailed as hazardous and non-hazardous for all waste destinations. This will improve the accuracy of the methodology.

#### Category 6 Business travel

The GHG emissions for category 6 are based on the emission data calculated directly by the travel agencies for the main highspend countries (Germany, France, US, and Switzerland) and collected at Corporate Procurement level. Calculation and emission factors come from travel agencies. The main high-spend coun- 2. Category 8 includes the upstream life cycle emissions of manutries are estimated to cover 42% of the Sika Group business travel expenditures for FY 2021. To provide an estimate for the whole Group, data was extrapolated to 100%.

**Roadmap:** coverage will be extended to collect activity data from more Sika countries.

#### Category 7 Employee commuting

The GHG emissions associated with employee commuting are estimated with full-time equivalents (FTEs). FTEs are reported and compiled within the corporate reporting system. FTEs include both Sika employees and external temporaries, but excluthe following assumptions were made:

- Default mode of 100% travel by car (1 employee per car)
- Default average number of trips as 440 (220 working days \* 2 = 440)
- All Sika Services entities related to Corporate Departments were considered to include 50% home office in 2021
- Default travel distance of 30 kilometers (per trip) by car
- Diesel was considered as the fuel used and the relevant emission factor was applied

Roadmap: the methodology will be reviewed and, if possible, a location-specific approach will be applied in the long term. Potential employee surveys will support the methodology review.

#### Category 8 Upstream leased assets

GHG emissions from upstream leased assets were calculated in the same way as category 2 - capital good, using a spend-based approach. Operations of assets leased by the reporting company in the reporting year (e.g., fuels used) are included in scope 1 and facturing or construction of leased assets. The spend categories associated with leased assets used for the calculation include:

- Leased heavy machinery and factory equipment
- Leased motor vehicles
- Leased IT hardware
- Leased other equipment

#### Category 9

#### Downstream transportation and distribution

GHG emissions from downstream transportation and distribution were based on annual data collected at company level through the Sika corporate reporting system. The collection de contractors. In alignment with the WBCSD sector guidance, form included ton.km, total outbound distance and tons transported considering diverse types of shipments. This downstream transportation reflects all outbound transportation to customers and intercompany transportation to warehouses and distribution facilities. Transportation modes included: truck, train, air, and sea. The information on outbound logistic was provided for both transportation activities paid by Sika (Delivery at Place - DAP) and transportation activities paid by the customer (Ex Works - EXW). In accordance with the GHGP guidelines, the outbound transportation paid by Sika is included in category 4, whereas the outbound transportation paid by customers falls under category 9.

> **Roadmap:** the methodology for downstream transportation will be aligned to the one for upstream transportation. Distances calculated with postal codes may improve the accuracy of the methodology.

### Category 11

Use of sold products

Direct and indirect GHG emissions from the use of sold products GHG emissions associated with the EoL of sold products were were screened to assess the materiality of category 11. After an calculated using the carbon content method, in alignment with extensive screening and a deep dive into different cases, the folthe WBCSD sector guidance. The carbon content method was lowing sources were included in the accounting of this category: applied to Sika's raw materials, using the same activity data as direct emissions from hydrofluorocarbons (HFCs); semi-volatile in category 1 calculation. To determine the carbon content of raw organic compounds (SVOCs), and volatile organic compounds materials, R&D experts performed a screening of the top mate-(VOCs) from solvents, silanes, and plasticizers. In alignment rials. Based on this screening, an average carbon content could with the WBCSD sector guidance, VOCs and SVOCs were conbe determined for each material eClass<sup>12</sup>. This average carbon verted to CO<sub>2</sub> using stoichiometric calculations based on carbon content was then applied to the total purchased kilograms of content. For more information regarding carbon content, please each material eClass. The final carbon content was converted to refer to the section on category 12. A screening of the Environ-CO<sub>2</sub> and CH<sub>4</sub> using stoichiometric calculations. Using factsheets ment, Health, and Safety (EHS) database for HFCs was carried from environmental databases, an end-of-life scenario was choout. During the screening, the following hydrofluorocarbons sen for each material category<sup>13</sup>. Based on these assumptions, were identified as relevant for Sika: HCFC-141b, HCFC-142b, HFCapproximately 33% of sold products are incinerated and 67% of 152a, HFC-227ea, HFC-245fa, and HFC-365mfc. As provided by sold products are placed into landfill. In the case of incineration, the GHG protocol, for each HFC, the relevant Global Warming 100% of carbon was converted to CO<sub>2</sub>. For the case of landfill, it Potential (GWP) value was applied. was assumed that 20% of materials decompose in a 100-year period and, according to the WBCSD sector guidance, this leads to a 50% decomposition into  $CO_2$  and a 50% decomposition into CH<sub>4</sub>. The carbon content method was used to calculate the endof-life GHG emissions of all material groups that contain organic raw materials. EoL GHG emissions from inorganic (not containing carbon) materials were calculated with a generic emission factor for the treatment inert matter and construction waste. Packaging is not considered a raw material, and each eClass was mapped to five overarching categories: paper, cardboard, plastics, metal, and wood. For each category, a default carbon content and EoL scenario was determined based on the Base Carbone database<sup>14</sup>.

12 EClass refers to the most granular segmentation in the procurement data available and is based on chemical functions. 13 Material category refers to the highest level of segmentation in the procurement data.

14 Documentation Base Carbone (ademe.fr)

#### Category 12 End-of-Life (EoL) treatment of sold products

Roadmap: Sika aims to collect secondary and primary data on EoL scenarios to enable a location and product-specific approach. This data will help verify the current assumptions made.

### **OVERVIEW AND SCREENING**

#### DATA INPUT

Each material scope 3 category is based on specific activity data and relevant emission factors. An overview of the data used for the scope 3 assessment is provided in the table below.

Category	Activity data	Emission factors	
Purchased goods and services	Corporate procurement database in combination with EHS database	Base Carbone v19.0, Sphera CUP2022.1 and Ecoinvent version 3.7.1.	
Capital goods	CAPEX totals for all categories – Corporate Reporting System	Monetary emission factors from Base Carbone v19.0.	
Fuel- and energy-related activities	Consumption data for fuels and electricity – Corporate Reporting System	Defra 2021 and IEA 2021	
Upstream transportation and distribution	Corporate procurement data	GLEC Framework version 2.0, 2019 and EcoTransIT	
Waste generated in operations	Waste reporting by weight (by disposal destina- tion and by type) – Corporate Reporting System	Ecoinvent 3.8, Sphera CUP2022.1 and Defra 2021	
Business travel	Reports from travel agencies	N/A	
Employee commuting	FTEs from all Sika entities – Corporate Reporting System	Defra 2021	
Upstream leased assets	CAPEX totals for relevant leased assets categories – Corporate Reporting System	Monetary emission factors from Base Carbone v19.0.	
Downstream transportation and distribution	Ton.kms per freight type – Corporate Reporting System	GLEC Framework version 2.0, 2019 and EcotransIT	
Use of sold products	Corporate procurement data in combination with EHS database	GHG Protocol GWP values (AR5 – Fifth Assessment Report)	
End-of-Life (EoL) treatment of sold products	Corporate procurement database in combination with EHS database	GHG Protocol GWP values (AR5 – Fifth Assess- ment Report), Base Carbone v19.0, Sphera CUP 2022.1, Defra 2021	

#### COVERAGE

The following table provides an outline of all identified exclusions with respect to each category. The methodologies defined for each scope 3 category are limited by the activity data and emission factors available in the current year. The materiality of all exclusions has been assessed to ensure that overall results are not compromised. Exclusions are monitored yearly and significant changes are tracked and documented.

Category	Exclusions	Materiality statement for exclusions		
Purchased goods and services Raw materials	1. Fuels 2. Direct spend not allocated 3. Angola, Albania, Kazakhstan	<ol> <li>Included in scope 1</li> <li>Approximately 3% of procurement spend</li> <li>Less than 0.1% of procurement spend</li> </ol>		
Purchased goods and services Indirect spend	<ol> <li>All expenses related to personal charges or financial charges were excluded from the scope 3 calculation</li> <li>Furthermore, the spend categories related to travels, waste and leased assets were excluded from category 1</li> </ol>	<ol> <li>Dutside of scope and boundary according to the GHG protocol</li> <li>Included in other scope 3 categories</li> </ol>		
Purchased goods and services Trading products and packaging	1. Toll manufacturing 2. Angola, Albania, Kazakhstan	1. 2.5% of global procurement spend 2. Less than 0.1% of procurement spend		
Capital goods	Includes all CAPEX categories aligned to the financial reporting except "Land additions"	Land additions were assessed as not relevant for GHG emissions		
Fuel- and energy-related activities	<ol> <li>Acquisitions - Hamatite and Shenzhen Landun Holding Co., Ltd.</li> <li>Heat, cooling and steam</li> </ol>	<ol> <li>Data from Shenzhen Landun Holding Co., Ltd (China) and Hamatite (Japan) have been excluded from consolidated 2021 figures to facilitate companies onboarding and ensure a proper integration in the Sika sustainability reporting framework</li> <li>Significance of heat, cooling and steam will be assessed in 2022</li> </ol>		
Upstream transportation and distribution	<ol> <li>Supplier intercompany logistics</li> <li>Air transportation</li> </ol>	<ol> <li>No transparency and no data available</li> <li>Air transportation is only used as a transportation mode in exceptional circumstances</li> </ol>		
Waste generated in operations	<ol> <li>Acquisitions - Hamatite and Shenzhen Landun Holding Co., Ltd.</li> <li>Emissions from recycling processes, relevant for the waste classified as "waste to reuse"</li> </ol>	<ol> <li>Data from Shenzhen Landun Holding Co., Ltd.</li> <li>(China) and Hamatite (Japan) have been excluded from consolidated 2021 figures to facilitate companies onboarding and ensure a proper integration in the Sika sustainability reporting framework</li> <li>Recycling processes are outside of scope and boundary according to the GHG protocol</li> </ol>		
Business travel	Only air travel included			

Category	Exclusions	Materiality statement for exclusions	
Purchased goods and services Raw materials	1. Fuels 2. Direct spend not allocated 3. Angola, Albania, Kazakhstan	<ol> <li>Included in scope 1</li> <li>Approximately 3% of procurement spend</li> <li>Less than 0.1% of procurement spend</li> </ol>	
Purchased goods and services Indirect spend	<ol> <li>All expenses related to personal charges or financial charges were excluded from the scope 3 calculation</li> <li>Furthermore, the spend categories related to travels, waste and leased assets were excluded from category 1</li> </ol>	<ol> <li>Outside of scope and boundary according to the GHG protocol</li> <li>Included in other scope 3 categories</li> </ol>	
Purchased goods and services Trading products and packaging	1. Toll manufacturing 2. Angola, Albania, Kazakhstan	1. 2.5% of global procurement spend2. Less than 0.1% of procurement spend	
Capital goods	Includes all CAPEX categories aligned to the financial reporting except "Land additions"	Land additions were assessed as not relevant for GHG emissions	
Fuel- and energy-related activities	<ol> <li>Acquisitions - Hamatite and Shenzhen Landun Holding Co., Ltd.</li> <li>Heat, cooling and steam</li> </ol>	<ol> <li>Data from Shenzhen Landun Holding Co., Ltd.</li> <li>(China) and Hamatite (Japan) have been excluded from consolidated 2021 figures to facilitate companies onboarding and ensure a proper integration in the Sika sustainability reporting framework</li> <li>Significance of heat, cooling and steam will be assessed in 2022</li> </ol>	
and distribution 2. Air transportation 2. Air transportation		1. No transparency and no data available         2. Air transportation is only used as a transportation mode in exceptional circumstances	
Waste generated in operations	<ol> <li>Acquisitions - Hamatite and Shenzhen Landun Holding Co., Ltd.</li> <li>Emissions from recycling processes, relevant for the waste classified as "waste to reuse"</li> </ol>	<ol> <li>Data from Shenzhen Landun Holding Co., Ltd.</li> <li>(China) and Hamatite (Japan) have been excluded from consolidated 2021 figures to facilitate companies onboarding and ensure a proper integration in the Sika sustainability reporting framework</li> <li>Recycling processes are outside of scope and boundary according to the GHG protocol</li> </ol>	
Business travel	Only air travel included		

Category	Exclusions	Materiality statement for exclusions
Employee commuting	Includes Sika employees and external temporaries	
Upstream leased assets	Categories "Leased production sites" and "Leased office and warehouses" were excluded	These categories represent long-term rent contracts where Sika's expenditure does not necessarily reflect the manufacturing on construction of leased assets
Downstream transportation and distribution	Acquisitions – Hamatite and Shenzhen Landun Holding Co., Ltd.	Data from Shenzhen Landun Holding Co., Ltd. (China) and Hamatite (Japan) have been excluded from consolidated 2021 figures to facilitate companies onboarding and ensure a proper integration in the Sika S&O reporting system
Use of sold products	<ol> <li>Indirect use-phase emissions</li> <li>Direct CO<sub>2</sub> release from chemical curing</li> </ol>	<ol> <li>Indirect emissions amount to less than 0.5% of total scope 3 emissions</li> <li>Full carbon content of relevant materials allocated to category 12</li> </ol>
End-of-Life (EoL) treatment of sold products	Please refer to the category "Purchased goods and services – raw materials" and "Purchased goods and services – trading products and packaging"	

#### DATA QUALITY

The GHGP<sup>15</sup> provides a suggested rating system to evaluate the data quality of both primary and secondary data used in the scope 3 assessment. The table below provides a high-level overview of the limitations in data quality identified for each material scope 3 category. A continuous evaluation of these parameters will help to assess the accuracy and reliability of all relevant methodologies and results. Where possible, identified data quality limitations will be addressed and thus used to improve the overall quality of Sika's scope 3 assessment.

Category	Technology	Geography	Completeness	Reliability
Purchased goods and services	Emission factors from secondary data sources could not be found for all purchased raw materials. Proxies were applied	Geographical considera- tions were limited by the secondary data available	Only 62% were calculated directly. The other 38% were included as an extrapolation	Average-data method. Supplier-specific data <1%
Capital goods	Different technologies cannot be differentiated with monetary emission factors	Global monetary emission factors were applied hence different geogra- phies were not considered	Land additions were not considered	The spend-based method was applied. The spend- based method is consid- ered the least specific according to the GHGP
Fuel- and energy- related activities	From 2022 onwards, additional granularity regarding the reporting of vehicle fuel will be available	Emission factors were chosen to reflect the relevant geography	Data from Shenzhen Landun Holding Co., Ltd. (China) and Hamatite (Japan) have been excluded as they were not included in the 2021 sustainability reporting	Based on scope 1 and 2 reporting data
Upstream transportation and distribution	Currently, it is not possible to distinguish between transportation modes for upstream transportation	Assumptions were made based on aggregated regions. Emission factors were applied on regional granularity	Supplier intercompany logistics were not included in the calculation	Potential data quality issues related to limited maintenance of supplier postal code information in SAP
Waste generated in operations	From 2022 onwards, additional granularity regarding the reporting of waste disposal by type of waste will be available	Emission factors were chosen based on three high-level regions. No country-specific data was available	Data from Shenzhen Landun Holding Co., Ltd. (China) and Hamatite (Japan) have been excluded as they were not included in the 2021 sustainability reporting	Based on S&O corporate reporting system
Business travel	Only flights were considered	Activity data restricted to four countries	The calculation was based on an extrapolation of data from travel agencies of four high-spend countries	Based on reports from travel agencies

15 Table 7.6 found on page 76 in the "Corporate Value Chain (Scope 3) Accounting and Reporting Standard" of the GHGP

### **EXCLUDED SCOPE 3** CATEGORIES

Category	Technology	Geography	Completeness	Reliability
Employee commuting	Currently, it is not possible to distinguish between different transportation types	No geographical differences included	All Sika employees were considered	The calculation was based on generic assumptions
Upstream leased assets	Different technologies cannot be differentiated with monetary emission factors	Global monetary emission factors were applied, hence different geogra- phies were not considered	Leased assets which are paid with yearly rents (e.g. building rentals) were not included. It was assumed that rents do not reflect the upstream emissions	The spend-based method was applied. The spend- based method is consid- ered the least specific according to the GHGP
Downstream transportation and distribution	Differences between transportation modes were considered. Per transportation mode, a default vehicle type was chosen	Data was assessed on country level. Emission factors were applied to aggregated regions	Data from Shenzhen Landun Holding Co., Ltd. (China) and Hamatite (Japan) have been excluded as they were not included in the 2021 sustainability reporting	Reliability depends on data quality and availability at local level
Use of sold products	Where applicable, infor- mation about specific technologies was included in the screening	Geographical differences are unknown and were thus not considered	Indirect emissions were screened, assessed as immaterial and thus excluded. Continuous investigation in alignment with innovation is needed to assess the materiality	A screening of indirect emissions has been carried out based on several business cases, which covers a limited number of use cases
End-of-Life (EoL) treatment of sold products	Currently, no information/ data is available regarding the end-of-life scenarios of Sika products. Assump- tions were made		Only 62% were calculated directly. The other 38% were included as an extrapolation	Assumptions were made regarding the carbon content for each material eClass <sup>1</sup>

All the GHGP scope 3 categories were assessed for their relevance. Categories 10, 13, 14 and 15 were identified as insignificant or irrelevant for Sika and thus excluded from the assessment. Detailed exclusion criteria for each category are provided in the table below.

Categories	Exclusion criteria
Processing of sold products	<ul> <li>Final products: emission</li> <li>Cat. 11 Use of sold products</li> <li>Intermediate products</li> <li>which applies to interrise</li> <li>report Scope 3, catego</li> <li>to the diverse applicat</li> </ul>
Downstream leased assets (assets owned by Sika and leased to others)	There is only one known admixtures) in the USA estimated the CO <sub>2</sub> emiss the downstream leased
Franchises	In 2021, Sika did not op irrelevant. Franchises ar
Investments	<ul> <li>Sika's investment categ</li> <li>Subsidiaries: all subsic financial reporting and exception mentioned i</li> <li>Shares: Sika has some North America, LLC, CI</li> <li>Financial assets (&gt; 0% less, those will be report to CHF 85.2 million. Th to funds for an employ</li> </ul>

1 EClass refers to a grouping of raw materials applied by corporate procurement.

ions from application of Sika sold products fall under indirect roducts

ts: from WBCSD Chemical Sector Standard recommendation, rmediate products only, "chemical companies are not required to gory 10 emissions, since reliable figures are difficult to obtain, due ation and customer structure"

In case of downstream leased assets: dispensers (tank to store leased to strategic partners of larger contracts. A screening ssions at 600 tons CO<sub>2</sub>-eq. It was determined that emissions from l assets are not significant

perate any franchises and as such, this category was deemed to be are not part of Sika's business model

gories:

idiaries with +50% equity investments are consolidated in the nd included in the scope 1, 2 and 3 assessments for FY 2021 (see d in the chapter "Outline")

ne minority shares (20%–50%) in three small companies: HPS Chemical Sangyo, Seven Tech

%–20%): if Sika holds shares with an ownership interest of 20% or ported as financial assets. In 2021, such investments amounted The major part (CHF 64.3 mn) came from the USA and it is related oyee benefit plan which is not restricted to equity investment



#### Cover image

Quay Quarter Tower is one of kind in terms of redevelopment of an existing building instead of complete demolition and rebuild. The idea was to preserve the structure and add on where possible which would reduce waste, pollution,  $CO_2$ , natural resources etc.

Sika supplied fire rated joint sealants, floor leveling, waterproofing, concrete repair mortars, structural grouts, and concrete admixtures.

#### Picture and project

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