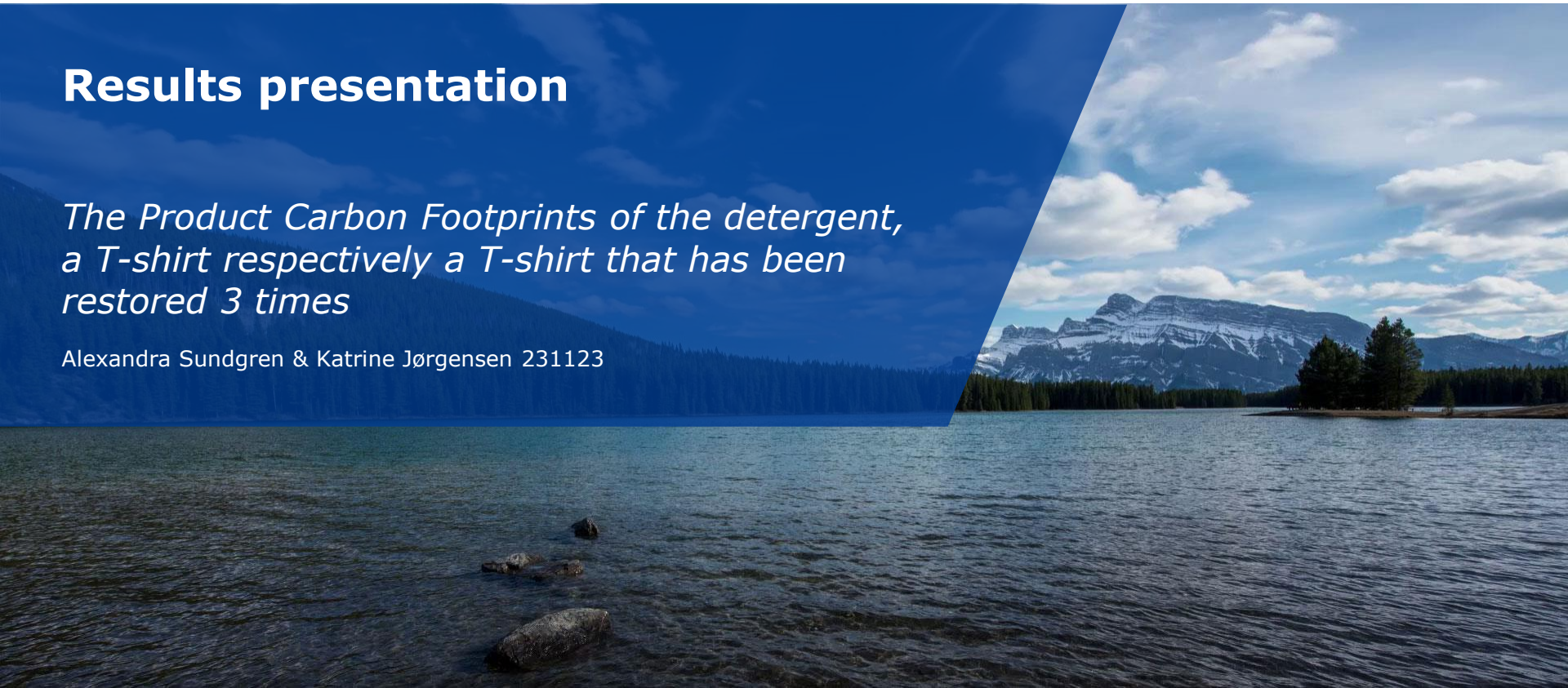


Results presentation

*The Product Carbon Footprints of the detergent,
a T-shirt respectively a T-shirt that has been
restored 3 times*

Alexandra Sundgren & Katrine Jørgensen 231123



Agenda

- 1 Methodology and system boundaries
- 2 Results
- 3 Climate projects and communication
- 4 ClimatePartner deep dives and academies



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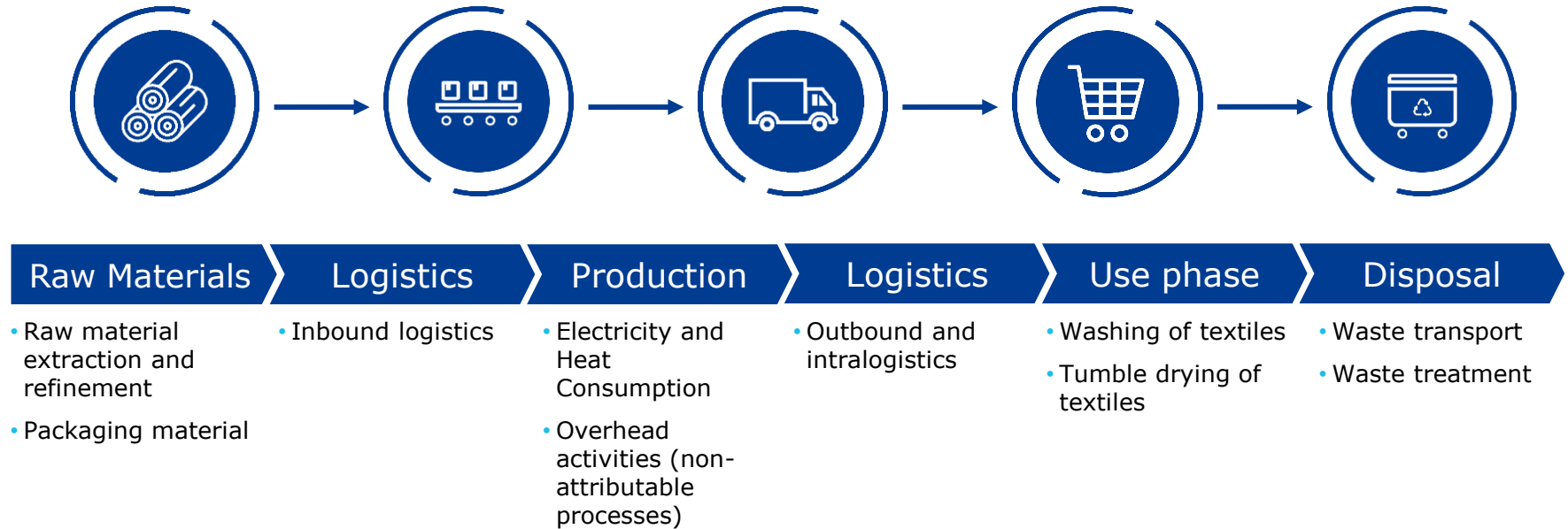
4

ClimatePartner deep dives and academies



The System Boundaries Include Emissions Along the Product Value Chain

Accounting According to the Cradle-To-Grave Approach



ClimatePartner Validates the Data Input, Identifies the Appropriate Emission Factors and Calculates the CO₂ Emissions

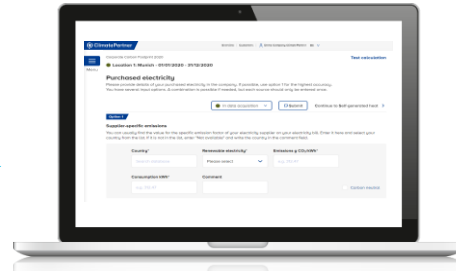
The Data Was Collected and Analyzed via Our Cloud-based Software

Data Validation

- Check the data for plausibility
- Validate against internal benchmarks
- Inquire in the event of irregularities
- Feedback on data quality and preparation for future data collection

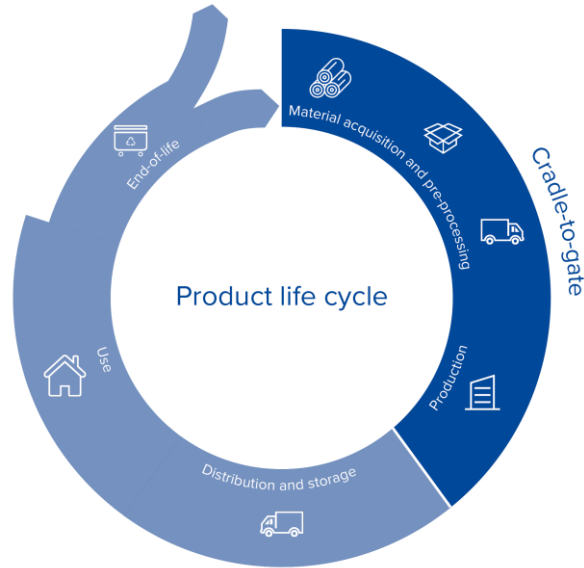
Selection of Emission Factors

- Identify emission factors
 - Utilize scientific LCA databases, including:
 - ClimatePartner databank
 - Ecoinvent
 - GEMIS



ClimatePartner's emission factors have cradle-to-gate system boundaries

Emission factors in our tools



Emission factors are cradle-to-gate

- Mining and extraction of materials or fossil fuels
 - Preprocessing of (intermediate) material inputs
 - All upstream transport
 - Primary, secondary and tertiary packaging
 - Production waste
 - Heat and electricity consumption during the entire production process
-
- Sources: scientific life cycle assessment databases such as ecoinvent, GEMIS, ClimatePartner's database

Calculation of emissions based on consumption data and emission factors

From data collection to carbon footprint

Consumption data

- Quantification of the relevant activities
- e.g. usage of 100 kg cotton (woven) in China

X

Emission factors

- Quantification of greenhouse gas emissions per unit of activity
- e.g. cotton (woven) in China: 27 kg CO₂e/kg

=

Emissions in CO₂e

e.g. cotton (woven): 2,700 kg CO₂e

The use phase calculations for textiles includes washing and drying (air drying as well as tumble drying)

Use phase Calculation Assumptions

- Lifespan of a cotton T-shirt: 30 uses and 15 wash cycles (RISE, 2019*)
- The T-shirt is used in Sweden, i.e. Swedish electricity mix is used
- Normal washing procedure
- Washing temperature: 40 °C
- Tumble drying: 90% is air dried and 10% tumbled dried (PEFCR*)
- Prolonged lifespan through restoration with Biorestore 3 times: Additional 90 uses and 45 wash cycles (Biorestore, 2023)

References:

RISE, 2019: *Environmental assessment of Swedish clothing consumption*. Gustav Sandin, Sandra Roos & Björn

Spak (RISE) Bahareh Zamani & Greg Peters (Chalmers University of Technology). Mistra Future Fashion report number: 2019:05.

PEFCR: Product Environmental Footprint Category Rules (PEFCR), T-shirt.



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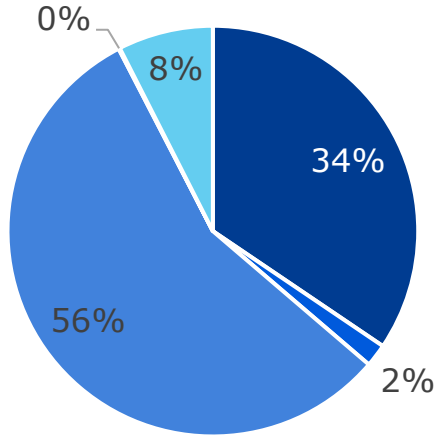


The Product Carbon Footprint of the Bioestore Detergent is 2.26 kg CO₂ per 1 box (3 sachets)

Life Cycle Includes Cradle-to-Customer + End-of-Life

2.26
kg CO₂

Percental division of the emissions



- Material acquisition and pre-processing
- Production
- Distribution and storage
- End-of-life
- Non-attributable processes

Findings

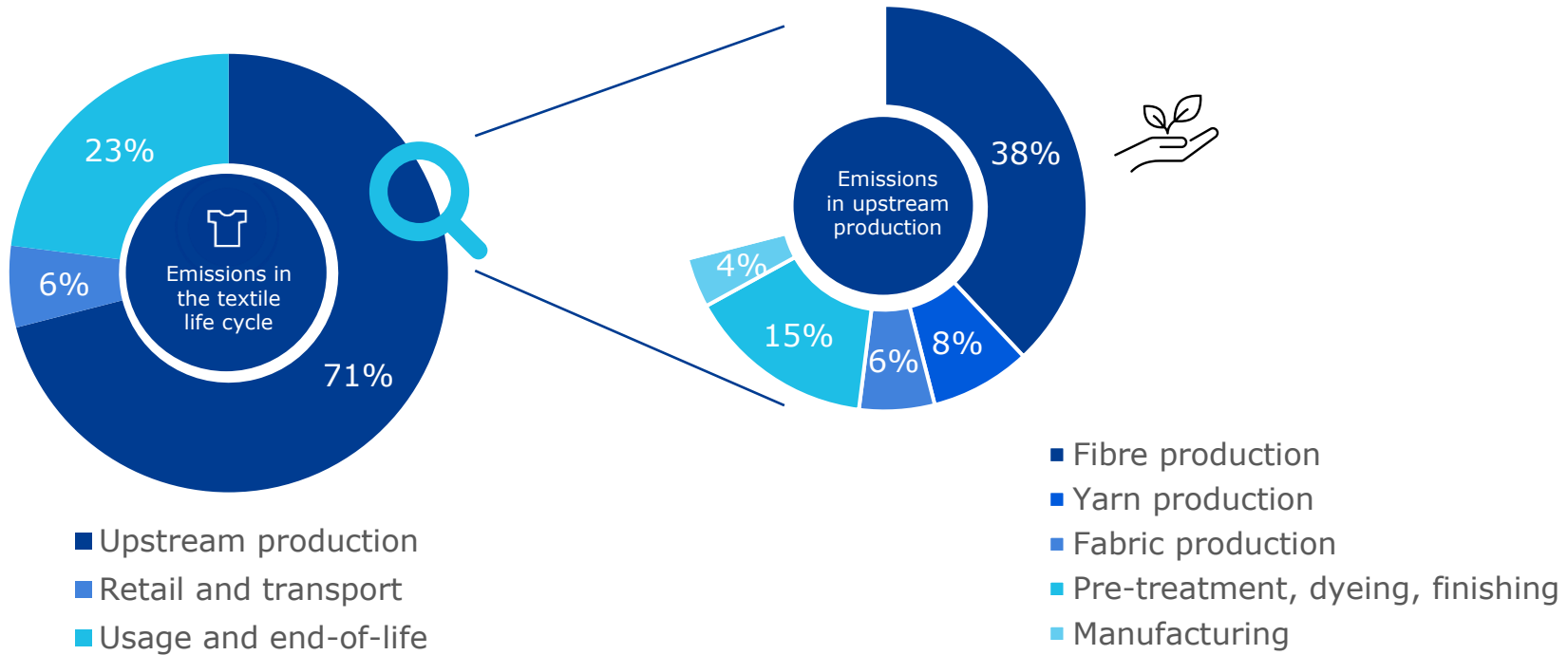
- Main emission sources: air transportation (0.93 kg CO₂) and the granulated enzymes (0.36 kg CO₂).

Database

- Both primary and secondary data.
- Data gaps: default value for the pallet and Non-attributable emissions.
- Carbon footprint calculated according to Amazon requirements.

>70% of the emissions in the textile life cycle come from upstream activities¹

Raw material production is the source of 38% of the overall emissions



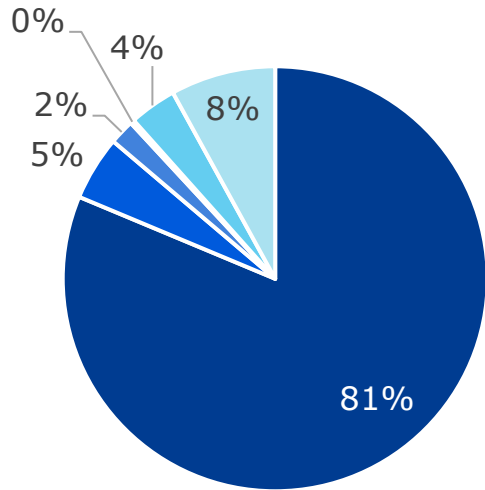
¹McKinsey & Company and Global Fashion Agenda (2020)

The Product Carbon Footprint of the cotton T-shirt is 6.91 kg CO₂

Life Cycle Includes Cradle-to-Grave

6.91
kg CO₂

Percental division of the emissions



- Material acquisition and pre-processing
- Production
- Distribution and storage
- Use phase
- End-of-life
- Non-attributable processes

Findings

- Largest emissions derive from the fibre production and pre-treatment, dyeing and finishing treatments.
- Use phase emissions account for 0.3% (0.02 kg CO₂).

Database

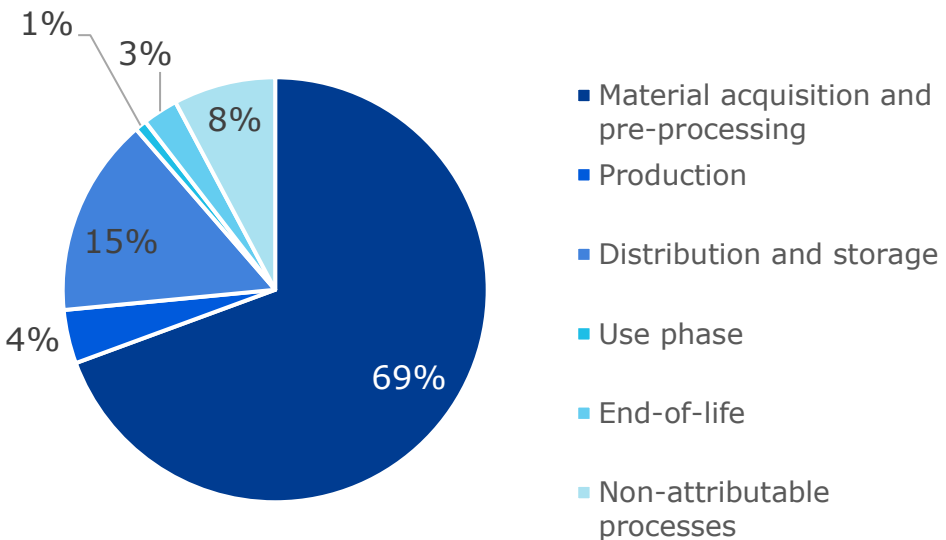
- Both primary and secondary data.

The Product Carbon Footprint of the same cotton T-shirt but it has been restored 3 times with Biorestore is 9.19 kg CO₂

Life Cycle Includes Cradle-to-Grave

9.19
kg CO₂

Percental division of the emissions



Findings

- The relation between the categories has shifted as the carbon footprint of the detergent also is included.
- Use phase emissions account for 0.9% (0.08 kg CO₂).

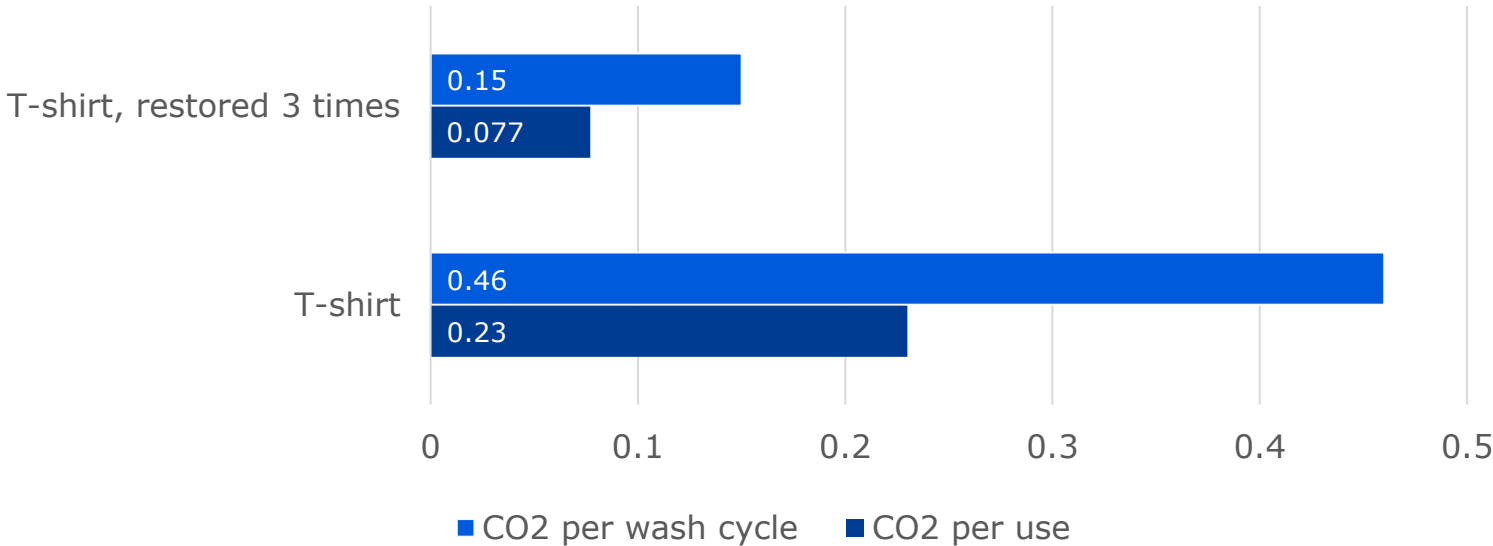
Database

- Both primary and secondary data.

A restored T-shirt causes 3 times less emissions in a life cycle perspective

A comparison of CO₂ emissions per wash cycle and use

Emissions per wash cycle, respectively per use



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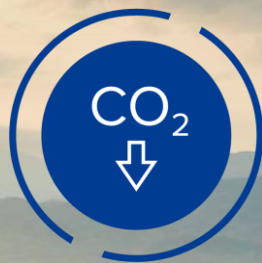




Measure
carbon footprints



Set
reduction targets



Implement
reductions



Finance
climate projects



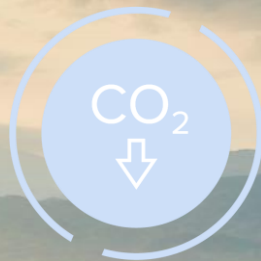
Communicate
transparently



Measure
carbon footprints



Set
reduction targets



Implement
reductions

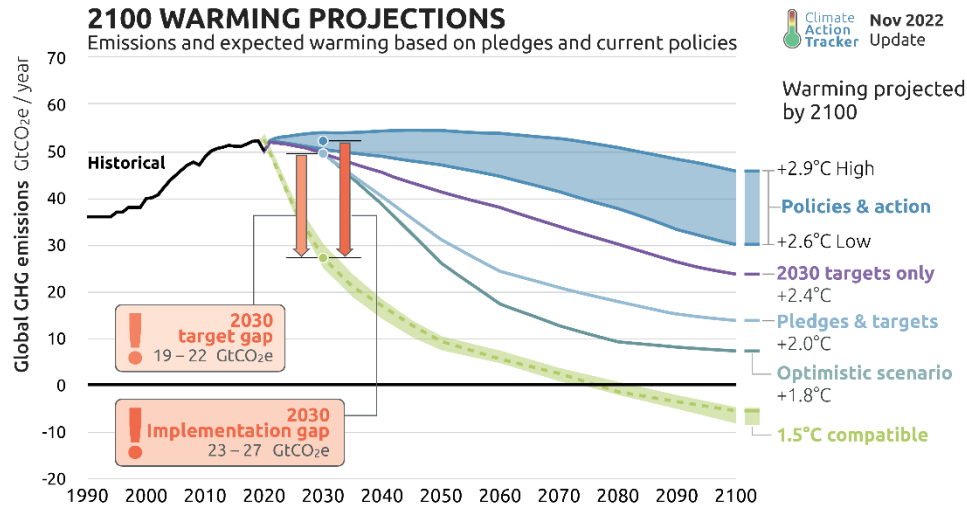


Finance
climate projects



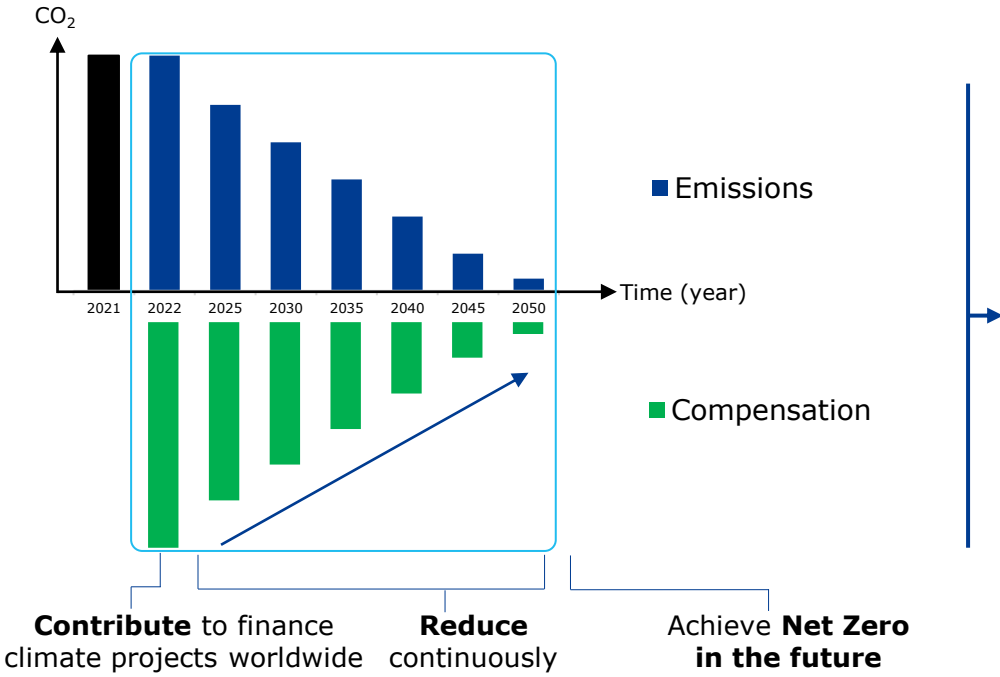
Communicate
transparently

Climate change is humanity's most urgent challenge



- In order to achieve the Paris Agreement targets, a **massive acceleration of absolute emission reductions** is necessary
- The **remaining carbon budget** to limit global warming to below 1.5°C will be used up in **less than 7 years**

A comprehensive climate action strategy consists of measuring, reducing, and contributing



SCIENCE
BASED
TARGETS

Companies should go further and **invest in mitigation outside their value chains now** to contribute towards reaching societal Net Zero – **Beyond Value Chain Mitigation**

Climate projects mitigate emissions while promoting the SDG's

- **Certified** according to international standards (e.g. Gold Standard, VCS)
- **Audited regularly** (e.g. TÜV, SGS, PwC)
- Contributes to achieving the **UN's sustainable development goals** (SDGs)



Criteria for certified climate projects

ADDITIONALITY

A project must result in lower emissions than it would be the case without the project and/or rely on the additional financing from the sale of verified emission reductions.

EXCLUSION OF DOUBLE COUNTING

The CO₂ reduction may only be counted once and is not allowed to be counted again at any other point.

PERMANENCE

CO₂ savings must not be a one-off effect, but have to have a long-term benefit for the climate.

AUDIT BY THIRD PARTIES

Climate projects must be regularly audited by independent auditors, such as TÜV Nord.

Climate projects enable CO₂ reductions and support local communities

Overview of certified technologies

RENEWABLE ENERGY



WIND ENERGY



HYDROPOWER



SOLAR ENERGY



BIOGAS/BIO MASS



GEOTHERMAL ENERGY

NATURE BASED SOLUTIONS



REDD+



AFFORESTATION



BLUE CARBON



SOIL ORGANIC CARBON



IMPROVED FOREST MANAGEMENT

SOCIAL IMPACT



IMPROVED COOKSTOVES



CLEAN DRINKING WATER



SMALL BIOGAS PLANTS

COMBINED PROJECTS



REGIONAL AFFORESTATION



PLASTIC BANK



AGRICULTURE



BIOCHAR



MOORS

Supporting indigenous peoples to avoid deforestation

www.climatepartner.com/1402

As the biggest REDD+ Project in Colombia, this initiative **protects 1,150,200 hectares of tropical forests**, safeguarding its biodiversity. It provides education, healthcare, sanitation, food security, nutrition, and further **social benefits for 16,000 indigenous people**.



3,622,000 t CO₂
Estimated Annual
Emission Reductions



Mataven
Colombia



**Verified Carbon
Standard (VCS)**



Forest Protection



Clean solar energy for Namibia

www.climatepartner.com/1404

The carbon offset project in Omaheke near the town of Gobabis in Namibia uses the **sun as a climate-friendly energy source**: The solar plants constructed in 2017 include 18,560 PV solar modules and have a **total capacity of 12.064 MW**. As a result, approximately 26.1 GWh of **clean electricity** is fed into the Namibian power grid annually.



25,760 t CO₂
Estimated Annual
Emission Reductions



Omaheke
Namibia



**Verified Carbon
Standard (VCS)**



Solar energy

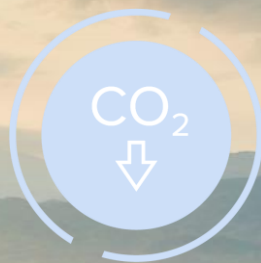




Measure
carbon footprints



Set
reduction targets



Implement
reductions



Finance
climate projects



Communicate
transparently

The ClimatePartner certified label promotes holistic climate action, combined with full transparency

ClimatePartner certification provides **transparent disclosure of a company's entire climate action strategy** including carbon footprints, emissions reduction targets, implemented reductions, and financial contribution towards climate projects worldwide.



ClimatePartner
certified company
climate-id.com/000000



ClimatePartner enables transparency and credibility in your climate action communication

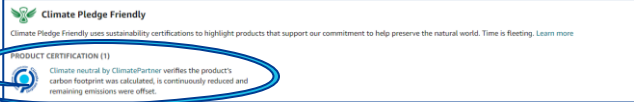
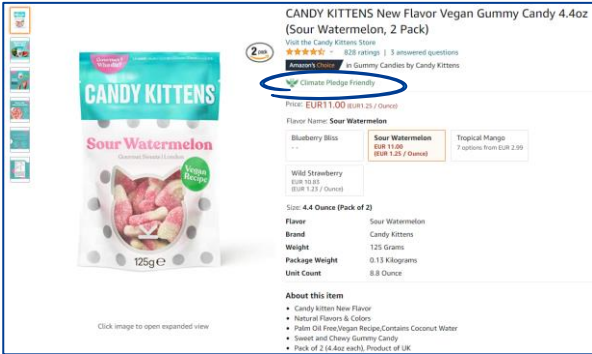
- **Visible positioning** of your brand in climate action
- **Consumers** can see the company's commitment to climate protection and obtain **detailed information** on its website.
- Climate labels serve as an **orientation aid** for purchasing decisions*



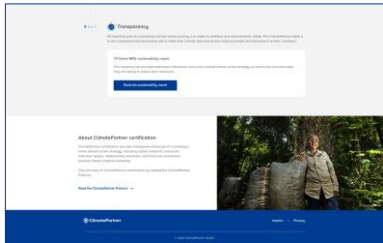
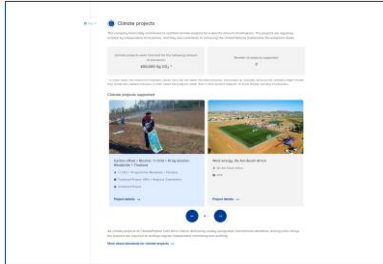
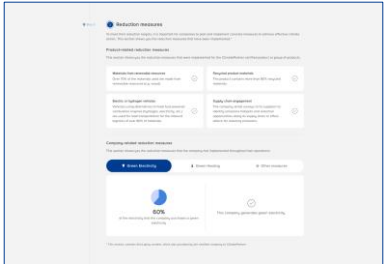
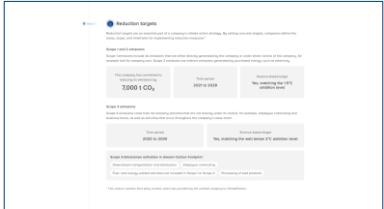
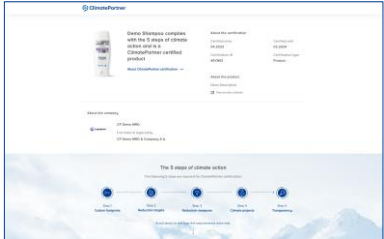
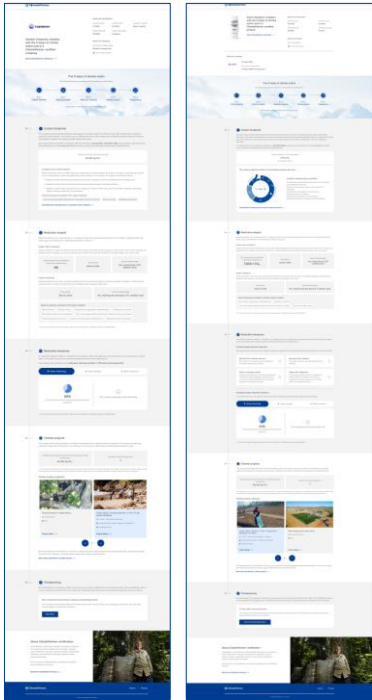
*60 % of respondents find a climate label important to very important when making purchases
(Source: [Climate Action Awareness Report 2022](#), Average for DACH, N = 2.513)

The ClimatePartner label enables transparency and credibility in communication to the end consumer

Find certified products via Amazon Climate Pledge Friendly



Your climate protection successes and goals can be transparently tracked on the climate-ID website



The ClimatePartner certified label promotes holistic climate action combined with full transparency

Standard

Example: ClimatePartner certified company



**ClimatePartner
certified company**

climate-id.com/000000



Optional

Example: ClimatePartner certified product



**ClimatePartner
certified product**

climate-id.com/000002



**ClimatePartner
certified product**

climate-id.com/000002

CO₂
measure
reduce
contribute



**ClimatePartner
certified product**

climate-id.com/000002



CO₂
measure
reduce
contribute



ClimatePartner
certified*

* Certified product: climate-id.com/000000

For each of the five steps we have defined requirements which every label user must fulfill to become ClimatePartner certified

| Step | | ClimatePartner certified company | ClimatePartner certified product or service |
|------|---------------------------|--|---|
| 1 | Measure carbon footprints | Carbon footprint according to the ClimatePartner Protocol, including regular updates | |
| 2 | Set reduction targets | Set company related reduction targets (covering at least scope 1 and 2) within 12 months | |
| 3 | Implement reductions | Company related reductions <ul style="list-style-type: none"> Reductions are implemented 80% renewable electricity procurement latest by 2025 and 100% latest by 2030 Continuous reductions to achieve reduction targets | Product related reductions <ul style="list-style-type: none"> Reductions with direct influence on the certified product or service are implemented |
| | | | Company related reductions <ul style="list-style-type: none"> Implement company related reductions within 12 months Continuous reductions to achieve reduction targets |
| 4 | Finance climate projects | Contribute to finance certified climate projects | |
| 5 | Communicate transparently | Disclose climate action measures regarding the steps 1 to 4 within the individual climate-ID page. | |

We support you in effective and credible communication of your climate action commitments

<https://www.climatepartner.com/en/success-stories#customers>

1



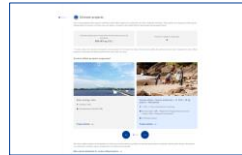
Comprehensive marketing kit, incl. templates, text modules and image material

2



"ClimatePartner certified" label available in eight languages and various formats (PDF, JPG, EPS, PNG)

3



Your targets, reduction measures and supported climate protection projects can be communicated transparently on an individual Climate-ID webpage

4



Access to all image rights and information material of the selected climate project/s

5

Our marketing department actively supports you in your communications



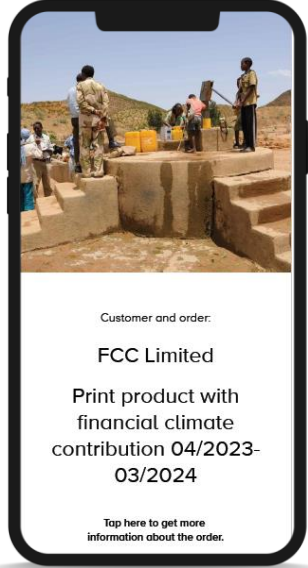
The Financial climate contribution label provides transparent disclosure on the financial contribution towards climate projects



- “Carbon neutral” becomes “climate contribution”
- **Consistency** in the use of our tools and service offering in the market
- The label users should also be **encouraged** to report about their targets and **reduction** measures






The Financial climate contribution label is a tool for communicating financing of climate projects

Print product with financial climate contribution
ClimatePartner.com/12345-1001-1001



ClimateID Tracking 12345-1001-1001
Offset confirmed

[Download certificate](#) [Details about the order](#) [Supported offset project](#)

| | | |
|---|---|---|
|  | FCC Limited Print product with financial climate contribution 04/2023-03/2024 |  |
|  | 1 kg CO₂ have been offset | Supported offset project Clean drinking water Zoba Maekel Eritrea |
|  | FCC Limited |  |

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A company-wide understanding of climate change and possible climate action is essential for success

Awareness building and training for employees



| ClimatePartner Academy | ClimatePartner Deep Dives | Tailored Inhouse trainings |
|--|--|--|
| <ul style="list-style-type: none">• Free online seminars on the essential steps for corporate climate action<ul style="list-style-type: none">• Climate Change Basics• Climate Strategy• Reduction Initiatives• Best Practices etc.• Available in many languages• Duration: 1½ - 2h <p>Link</p> <p>For free</p> | <ul style="list-style-type: none">• Free online seminars providing deep insights on selected topics<ul style="list-style-type: none">• Supply Chain• Targets• Green Energy• Communication etc.• Available in many languages• Duration: 60 - 90min <p>Link</p> <p>For free</p> | <ul style="list-style-type: none">• We offer tailor made support for your team• Complexity and depth according to the target group• We support your sales and marketing team effectively communicate to clients  |

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