

# Life Cycle Analyses

MESHCLIP



# Summary



## 01 | Methodology



## 02 | Results

# 01

## Methodology

# Environmental Impact Assessment

## Functional unit

The functional unit is a quantified performance of a product system for use as a reference unit. One of the primary purposes of a functional unit is to provide a reference to which the input and output data are normalized (in a mathematical sense). Therefore, the functional unit shall be clearly defined and measurable.

## Impact Indicator

The impact is measured through the "IPCC 2021 GWP100" method

## Electricity impact calculation method

Following guidelines from the GHG Protocol, the impact of electricity is calculated using the location-based approach. This means that the emission factors used represent the average annual carbon intensity of the power grid in the country the processes take place in.

## Life Cycle Analyses

Cradle to grave

# Emission Factor Inventory

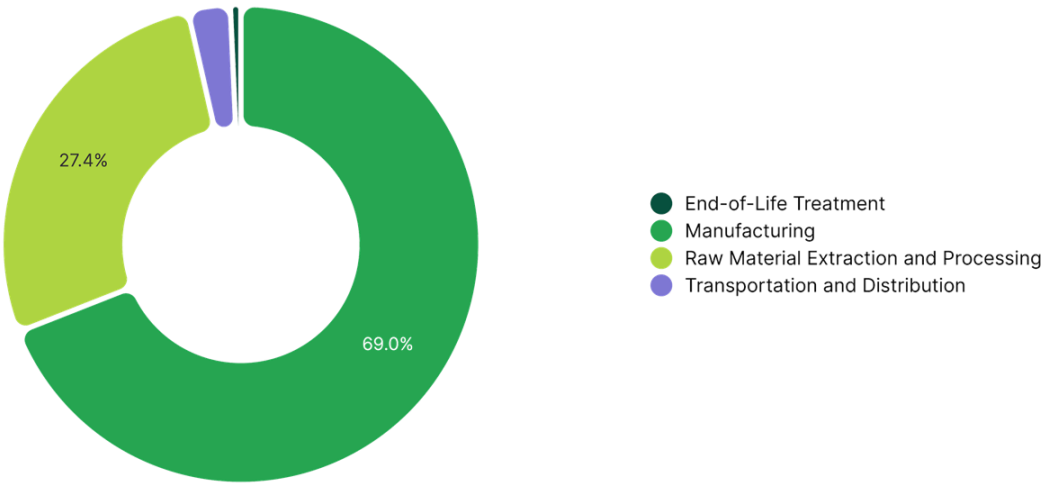
Num	Emission Factor	Source	Value	Unit
1	Steel, low-alloyed   Ordinary transforming activity	ECOINVENT 3.10	2.203301567	kg
2	Electricity   Total (Scope 2 & 3)   People's Republic of China	IEA 2023	0.7231	kWh
3	Freight   Boat   From CN to FR	WELOW EXPERTS 1.0	0.25227278	kg
4	Waste reinforcement steel   Ordinary transforming activity	ECOINVENT 3.10	0.06273427595	kg

# 02

## Results

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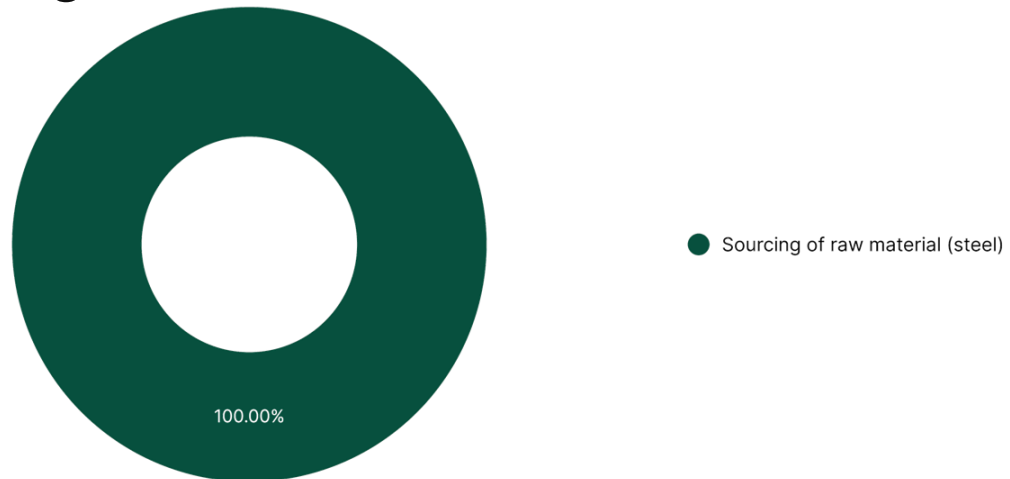
# Climate Change



Step	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Manufacturing	305.31	69.04 %
Raw Material Extraction and Processing	121.18	27.40 %
Transportation and Distribution	12.61	2.85 %
End-of-Life Treatment	3.14	0.71 %
TOTAL	442.24	100.00 %

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# Climate Change - Raw Material Extraction and Processing

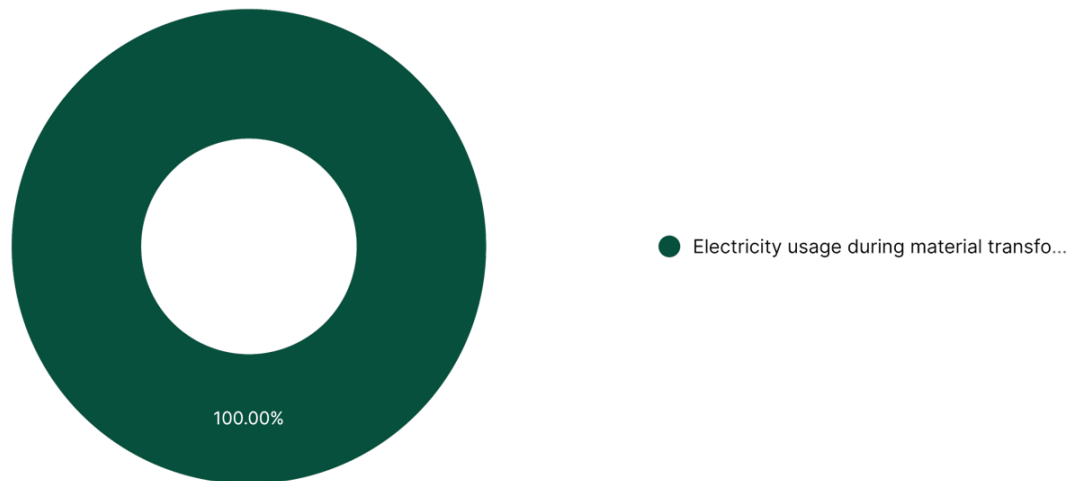


Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Sourcing of raw material (steel)	1	0.06	121.18	100.00 %
TOTAL			121.18	100.00 %



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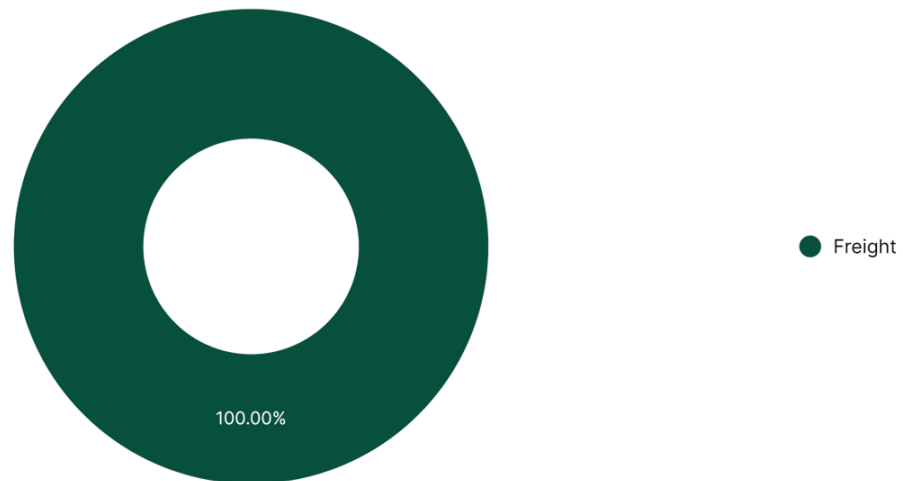
# Climate Change - Manufacturing



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Electricity usage during material transformation (steel)	2	0.42	305.31	100.00 %
TOTAL			305.31	100.00 %

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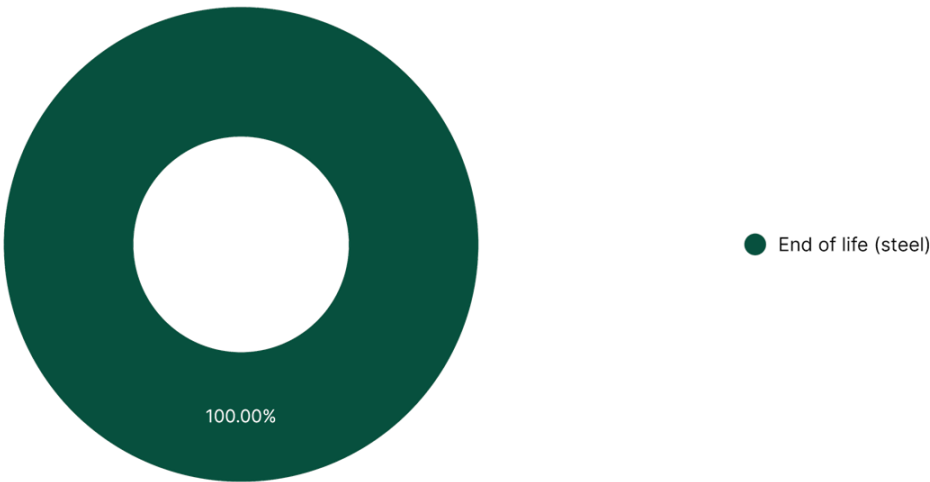
# Climate Change - Transportation and Distribution



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
Freight	3	0.05	12.61	100.00 %
TOTAL			12.61	100.00 %

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# Climate Change - End-of-Life Treatment



Activity	Emission Factor Num	Quantity	Impact (g CO <sub>2</sub> eq)	Percentage (%)
End of life (steel)	4	0.05	3.14	100.00 %
TOTAL			3.14	100.00 %

# 03

Next steps

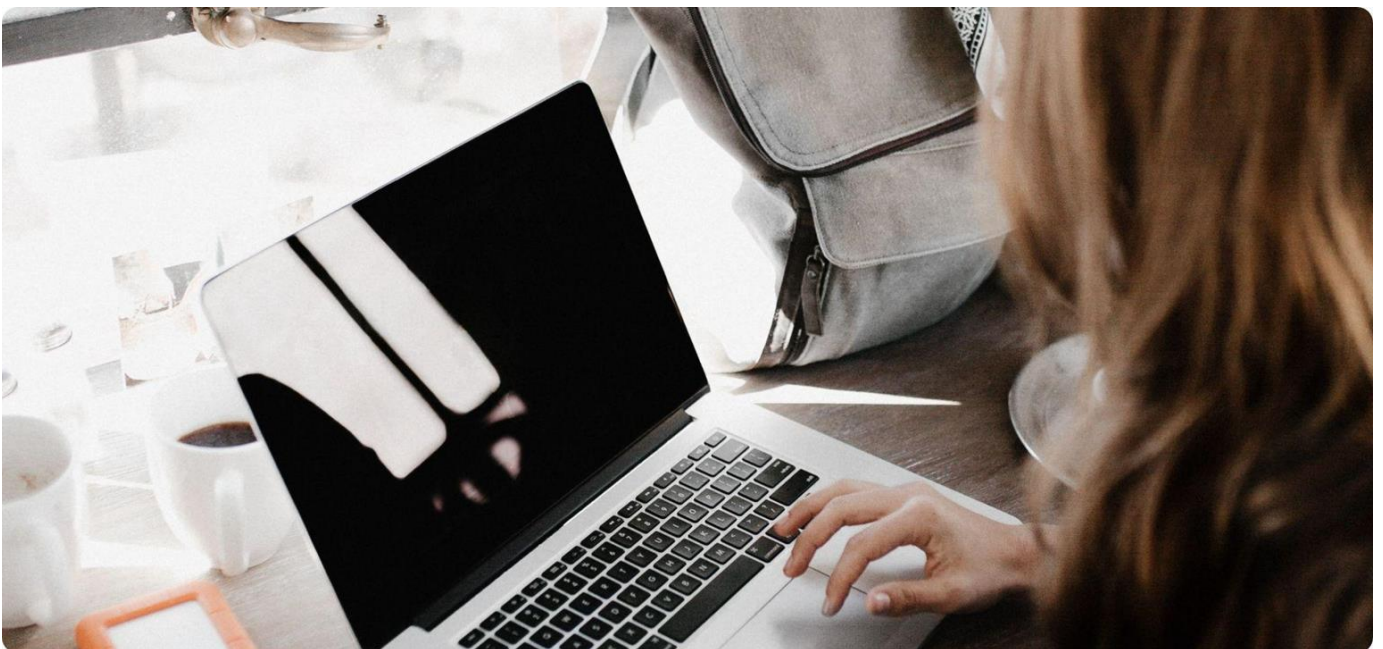
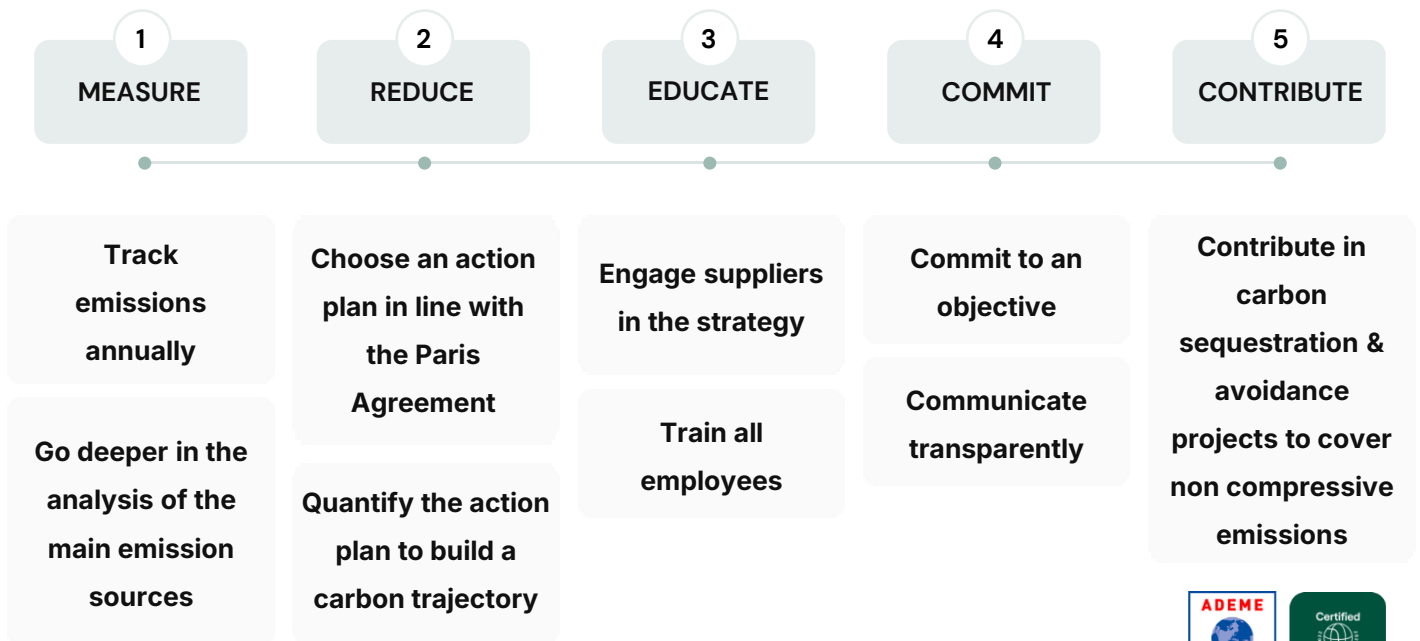
## Net Zero Strategy

# Climate strategy pillars



In 2015, 193 countries committed to limiting global warming to 1.5°C.

To achieve this, companies should follow these **5 pillars** of the Net Zero Initiative:



# Evaluate the climate engagement of suppliers



## SPECIFIC QUESTIONNAIRES PER ACTIVITY SECTOR

For industry, services, good, tech...



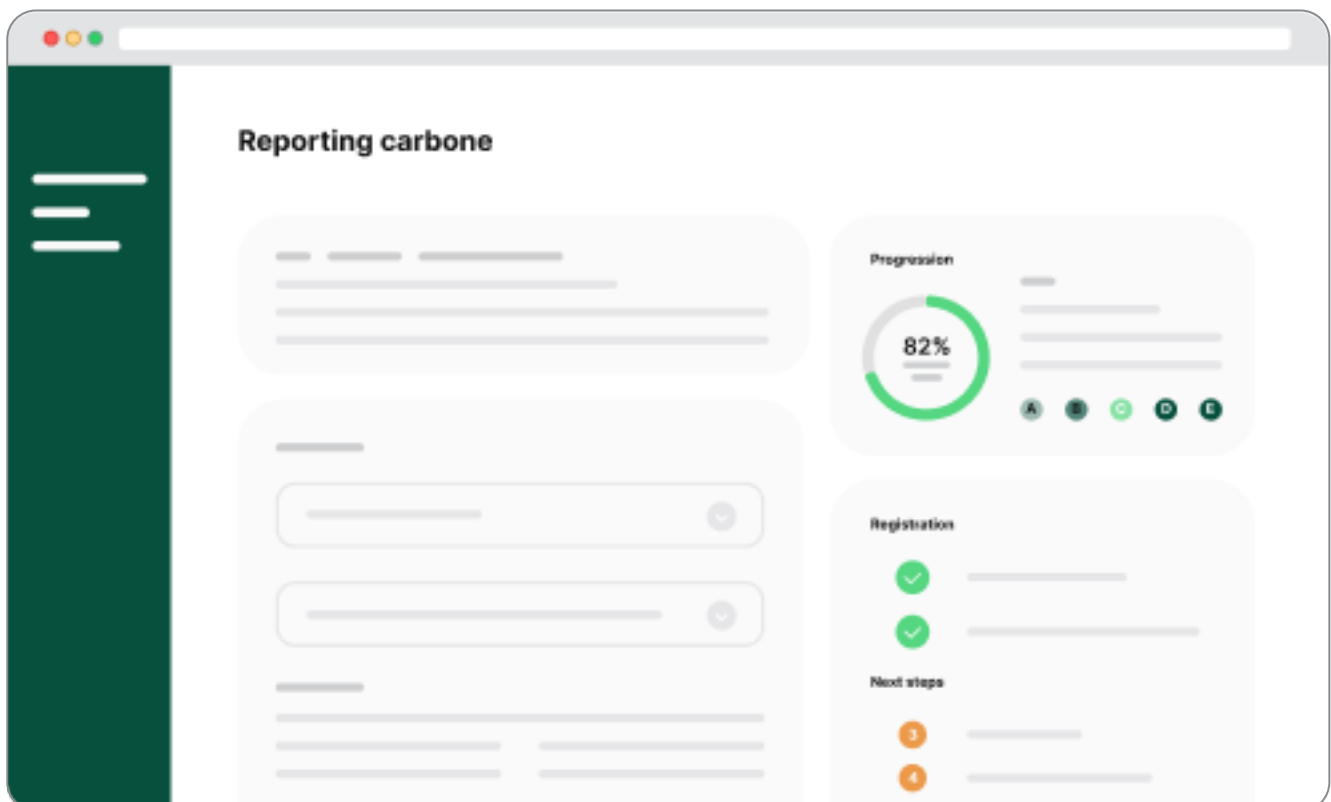
## PROOF OF A CLIMATE COMMITMENT

Commitment to carry out an assessment within the year to SBTi reduction targets.



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# Contact us

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