Sample Scope 1, 2, and 3 Report

Customer	Date	Prepared by
EcoTech	2024	Arbor

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About EcoTech

Introduction

EcoTech is a forward-thinking company dedicated to providing innovative environmental technologies. This report provides a breakdown of EcoTech's Scope 1, 2 and 3 Greenhouse Gas (GHG) emissions for the year 2023. Assumptions and methodologies specific to each scope are provided to ensure transparency and reliability.

Company Overview

CO_2e Impact per Revenue
0.18

Company Total Impact
126.54 tonne CO_2e per year

Total Employees	Total Facilities	Average Commute Distance	Total Products	Total Volume
948	2	4.01 km	521 products	10,392 units per year

Facility Overview 2

Total Impact of Facilities
104.47 tonne CO_2e per year

Shenzhen Factory

Impact
71.91 tonne CO_2e per year

CO_2e Impact per dollar($)
0.24

# of Employees
581

Avg Commute Distance
3.21 km

Location
China, Guangdong Province, Shenzhen

Energy Requirements
45,000 kWh — 350,000 kWh

Total Products
521 products

Total Volume
24,210 units per year

Data Provided

77% Arbor | 15% Supplier provided | 8% Company

Germany Factory

Impact
32.56 tonne CO_2e per year

CO_2e Impact per dollar($)
0.18

# of Employees
367

Avg Commute Distance
4.82 km

Location
Am Heiligenhaus, Mainz, Germany

Energy Requirements
35,000 kWh — 150,000 kWh

Total Products
521 products

Total Volume
10,392 units per year

Data Provided

77% Arbor | 15% Supplier provided | 8% Company

1. Methodology

The GHG inventory for EcoTech was created using methodologies consistent with the GHG Protocol. An effort was made to collect primary data wherever feasible, and was prioritized based on materiality. EcoTech's GHG inventory was developed to include Scope 1, Scope 2, and Scope 3 GHG emissions for the year 2023.

The raw data collected during the life cycle inventory collection phase was converted to environmental impact numbers using life cycle impact assessment (LCIA) methods. The LCIA method applied in this report was "EFv3.0 no LT" and the Global Warming Potential (GWP) results were calculated to represent the environmental impact as a single carbon impact score, measured in tonnes of carbon dioxide equivalent (tCO_2e).

GREENHOUSE GAS PROTOCOL

Environmental Footprint
EF V3.0 no LT

GRI SOFTWARE AND TOOLS PARTNER 2024

1.2 System Boundary

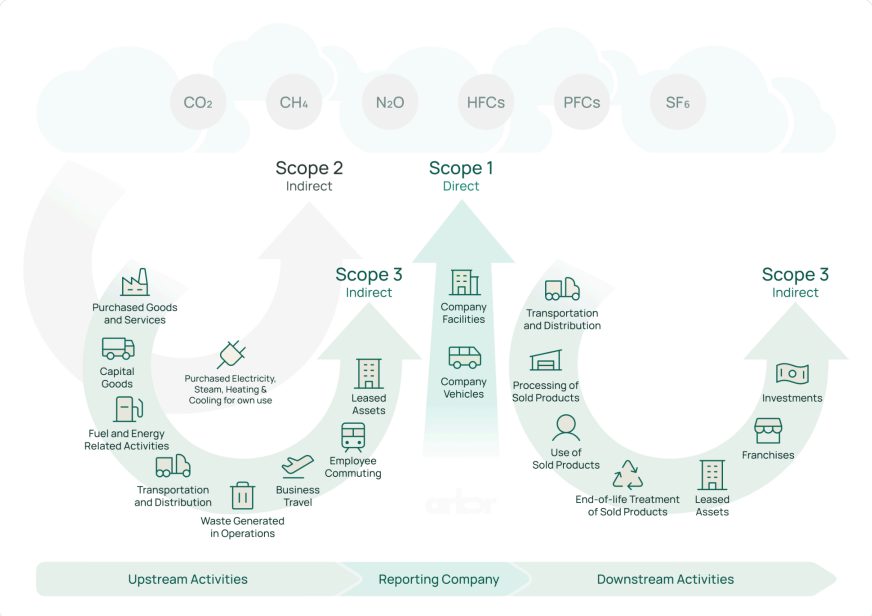


Figure 1. Scope 1, 2, and 3 Activities Diagram

2. Scope 1 and 2 Emissions

2.1 Overview

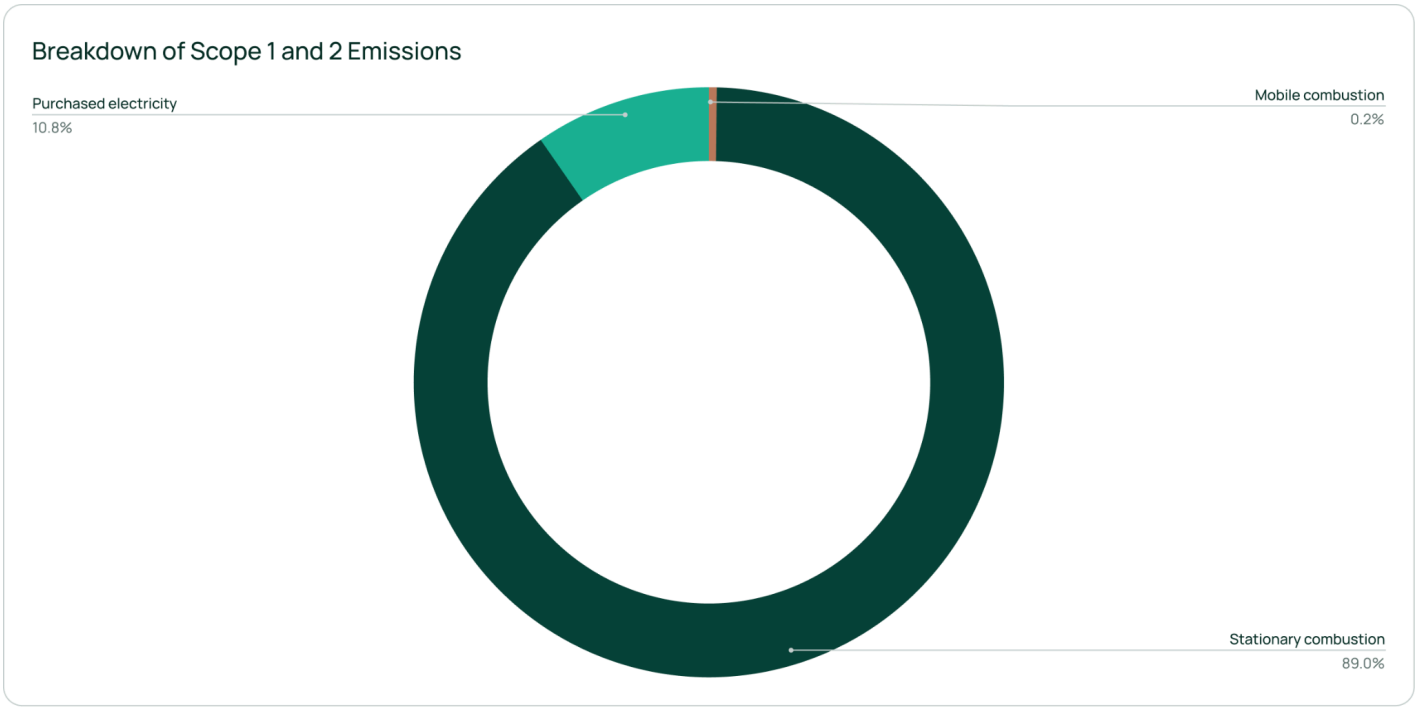


Figure 2. Scope 1 and 2 Emissions Breakdown

2.2 GHG Inventory

2.2.1 Scope 1

For the selected base year 2023, Table 1 outlines the total Scope 1 emissions, and Table 2 outlines the total Scope 2 emissions, both in metric tonnes of CO_2e (tCO_2e).

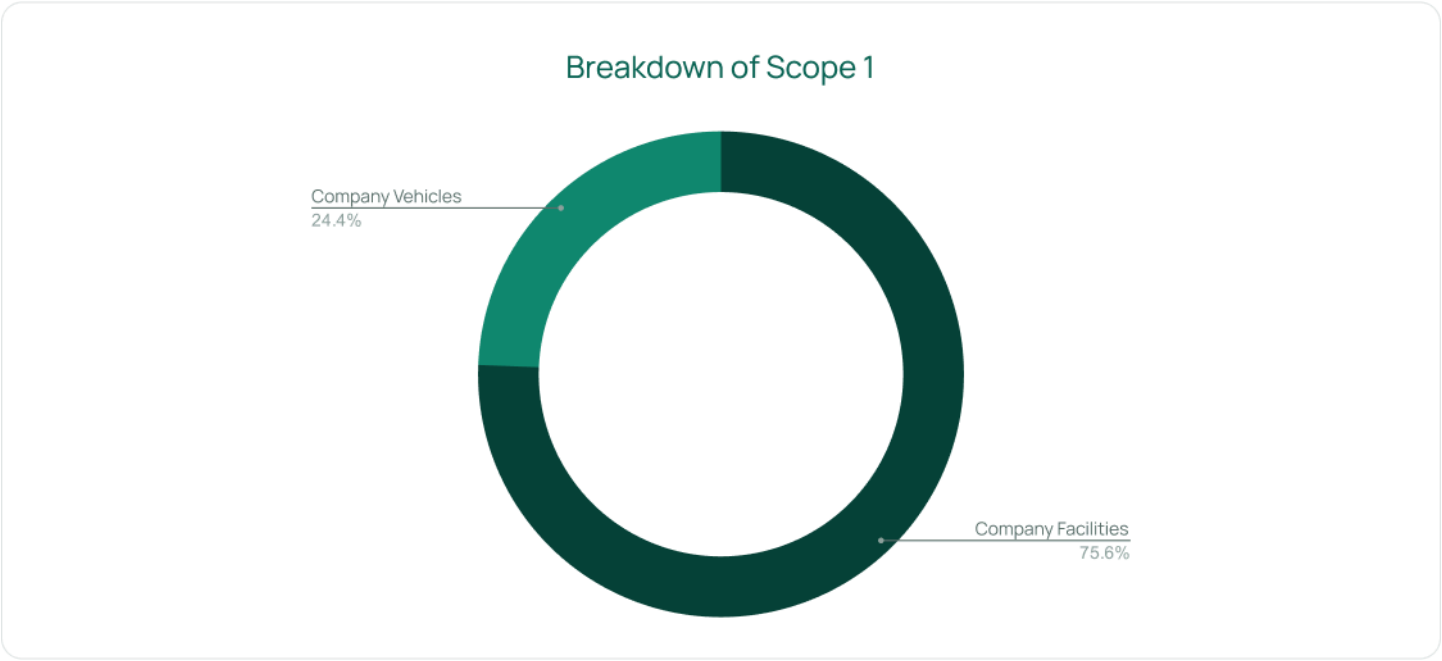


Figure 3. Scope 1 Emissions

Table 1. Scope 1 GHG Inventory

Emission Source	Data Type	Assumptions	Absolute emissions (tCO_2e)
Company Vehicles	Primary data	EcoTech provided all purchased fuel bills for each of their facilities. The total transport distance (km) for all company vehicles has been provided.	0.393
Company Facilities	Primary data	EcoTech provided all purchased fuel bills for each of their facilities.	1.217
Total Scope 1 Emissions (tCO_2e)			1.61

2.2.2 Scope 2

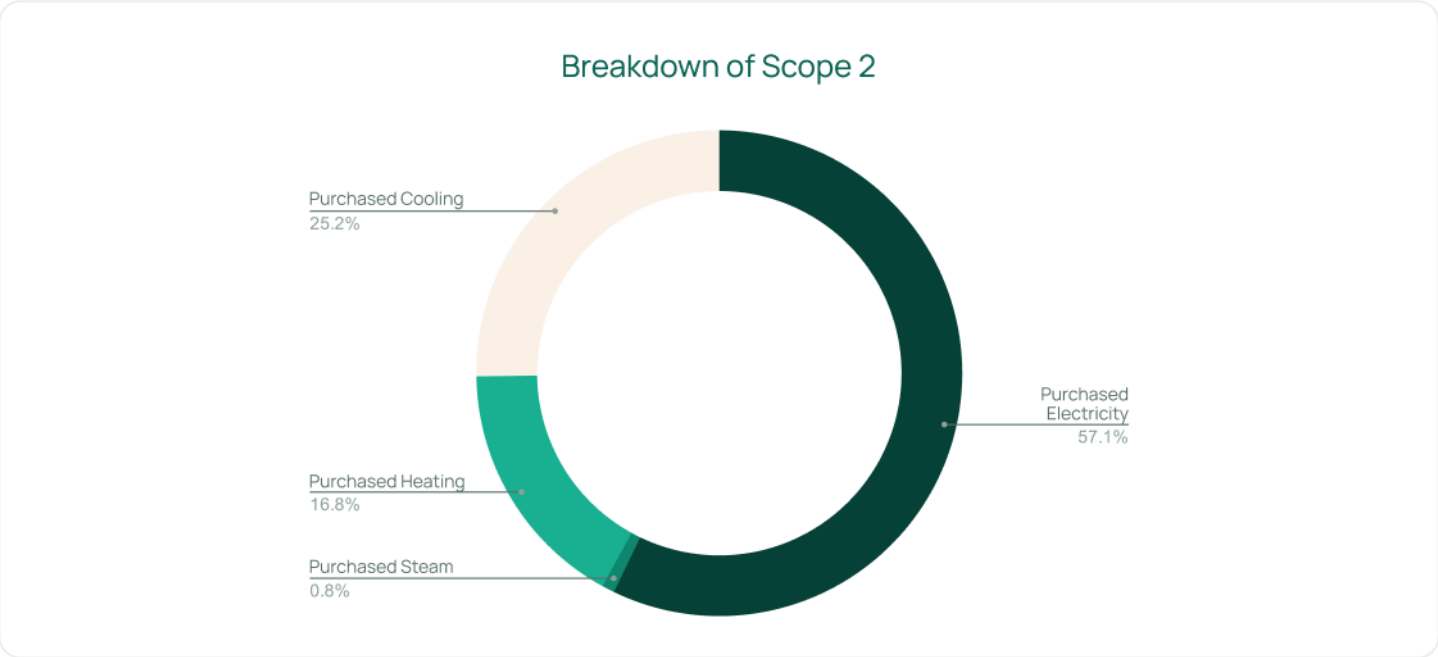


Figure 4. Scope 2 Emissions

Table 2. Scope 2 GHG Inventory

Emission Source	Data Type	Assumptions	Absolute emissions (tCO_2e)
Purchased Electricity	Primary data	EcoTech provided all purchased electricity bills for each of their facilities.	5.989
Purchased Heating	Primary data	EcoTech provided all purchased heating bills for each of their facilities.	1.762
Purchased Steam	Primary data	EcoTech provided all purchased steam bills for each of their facilities.	0.901
Purchased Cooling	Primary data	EcoTech provided all purchased cooling bills for each of their facilities.	2.865
Total Scope 2 Emissions (tCO_2e)			11.516

3. Scope 3 Emissions

3.1 Overview

Scope 3 emissions include all indirect emissions (not included in Scope 2) that occur in the value chain of EcoTech, including both upstream and downstream emissions. EcoTech's Scope 3 emissions, per category, are outlined below.

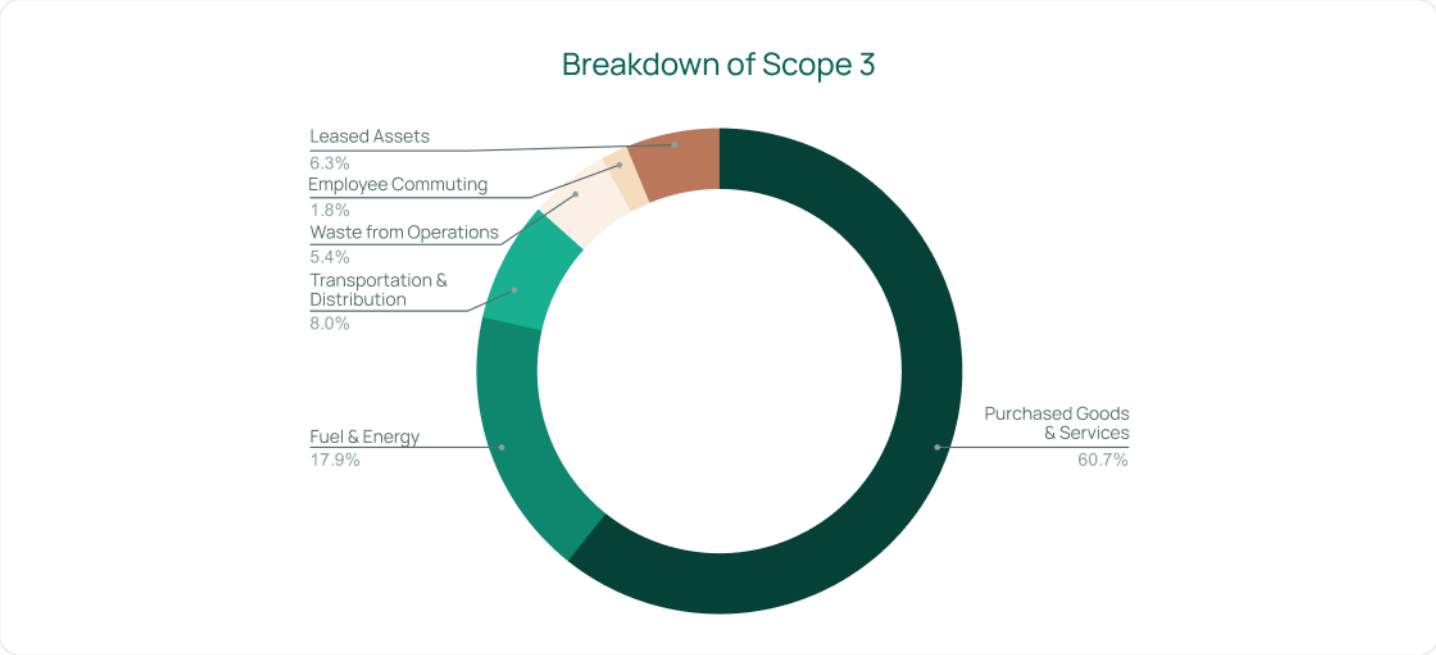


Figure 5. Scope 3 Emissions

3.2 GHG Inventory

3.2.1 Category 1: Purchased Goods and Services

Category 1 includes all upstream (i.e., cradle-to-gate) emissions from producing products and services purchased, or acquired, by EcoTech in 2023.

Table 3. Scope 3 Category 1: Purchased Goods and Services

Goods & Services	Data Type	Assumptions	Absolute emissions (tCO_2e)
Product Category 1	Secondary data (process based)	Product category 1 was assessed using estimated weights and emission factors for it's materials.	5.645
Product Category 2	Primary data (spend based)	Product category 2 was assessed using total spend and spend based emission factors.	10.00
Total Scope 3 Category 1 Emissions (tCO_2e)			15.645

3.2.2 Category 2: Capital Goods

This category includes all upstream (i.e., cradle-to-gate) emissions from the production of capital goods purchased or acquired by the reporting company in the reporting year. Capital goods are final products that have an extended life and are used by the company to manufacture a product, provide a service, or sell, store, and deliver merchandise.

Table 4. Scope 3 Category 2: Capital Goods

Capital Good	Data Type	Assumptions	Absolute emissions (tCO_2e)
Capital Good 1	Secondary data (process based)	Capital Good 1 was assessed using estimated weights and emission factors for it's materials.	5.22
Capital Good 2	Primary data (spend based)	Capital Good 2 was assessed using total spend and spend based emission factors.	5.00
Total Scope 3 Category 2 Emissions (tCO_2e)			10.22

3.2.3 Category 3: Fuel and Energy-Related Activities

Category 3 includes emissions related to the production of fuels and energy purchased and consumed by EcoTech, in 2023, that are not included in Scope 1 or 2 emissions.

Table 5. Scope 3 Category 3: Fuel and Energy-Related Activities

Activity	Data Type	Assumptions	Absolute emissions (tCO_2e)
Propane	Primary data (process based)	Client provided all the propane bills. Aside from combustion-related emissions, all other upstream emissions from the purchased fuels/electricity were allocated here.	4.123
Natural gas	Secondary data (spend based)	The natural gas amount was estimated based on all products manufactured. Aside from combustion-related emissions, all other upstream emissions from the were allocated here.	5.678
Diesel	Secondary data (spend based)	The diesel amount was estimated based on all products manufactured. Aside from combustion-related emissions, all other upstream emissions from the purchased fuels were allocated here.	3.456
Electricity	Primary data (spend based)	Client provided all the electricity bills. Aside from combustion-related emissions, all other upstream emissions from the purchased fuels/electricity were allocated here.	2.388
Total Scope 3 Category 3 Emissions (tCO_2e)			15.645

3.2.4 Category 4-15

Scope 3 Categories 4-15 have been omitted from this sample report but would follow the same reporting structure as Categories 1-3.

4. Summary

In this report, EcoTech's total emissions have been calculated across Scope 1, 2, and 3 categories. Scope 1 emissions, which represent direct emissions from company-owned sources, amounted to 1.61 metric tons of CO_2e. Scope 2 emissions, derived from the purchase of electricity, heat, and steam, totalled 11.52 metric tons of CO_2e. Scope 3 emissions, covering indirect emissions across the value chain, were estimated at 41.51 metric tons of CO_2e.

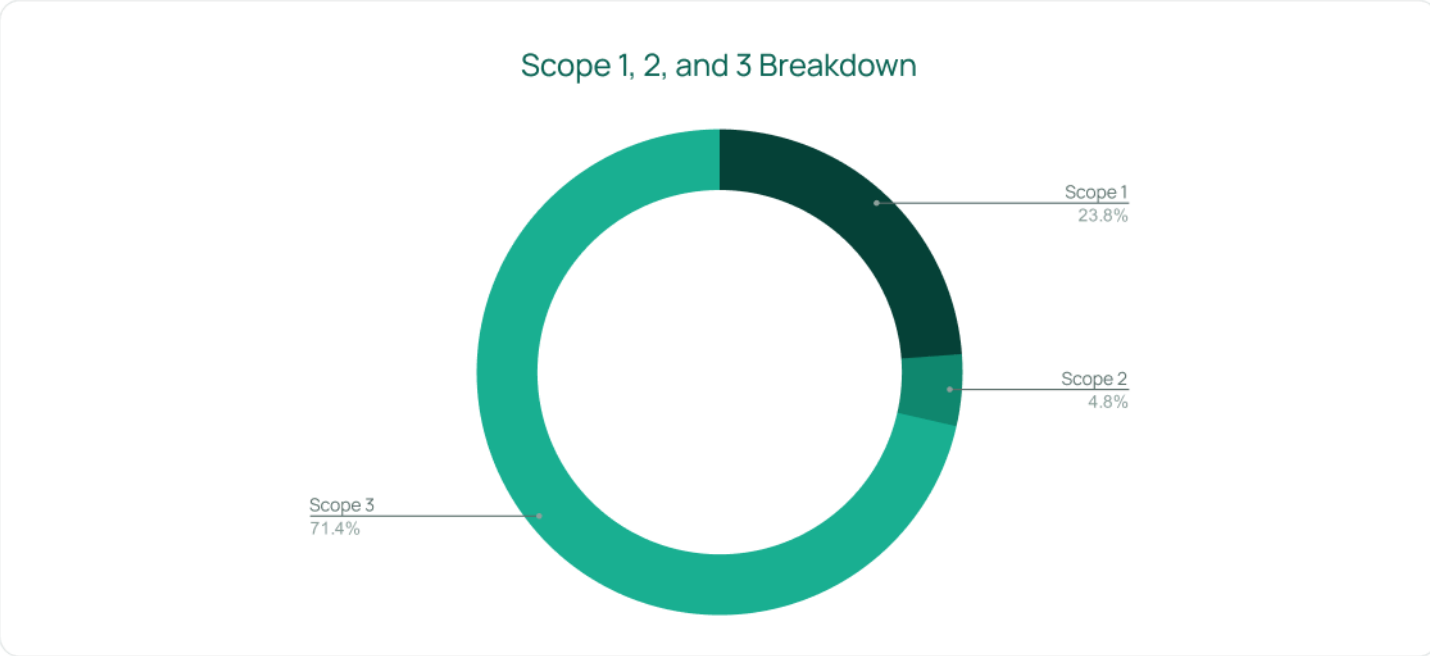


Figure 6. Scope 1, 2, and 3 Emissions

Table 6. Scope 1, 2, and 3 Emissions

Scope	Category	Emissions (tCO_2e)
Scope 1	Company Vehicles	0.393
	Company Facilities	1.217
	Total Scope 1 Emissions (tCO_2e)	**1.61**
Scope 2	Purchased Electricity	5.989
	Purchased Heating	1.762
	Purchased Steam	0.901
	Purchased Cooling	2.865

	Total Scope 2 (tCO_2e)	**11.516**
Scope 3	Category 1: Purchased Goods and Services	15.645
	Category 2: Capital Goods	10.22
	Category 3: Fuel and Energy-Related Activities	15.645
	Category 4: Upstream Transportation and Distribution	0
	Category 5: Waste Generated in Operations	0
	Category 6: Business Travel	0
	Category 7: Employee Commuting	0
	Category 8: Upstream Leased Assets	0
	Category 9: Downstream Transportation and Distribution	0
	Category 10: Processing of Sold Products	0
	Category 11: Use of Sold Products	0
	Category 12: End-of-Life Treatment of Sold Products	0
	Category 13: Downstream Leased Assets	0
	Category 14: Franchises	0
	Category 15: Investments	0
	Total Scope 3 Emissions (tCO_2e)	**41.51**
Total Scope 1, 2, and 3 Emissions (tCO_2e)		**54.636**

Thank you, EcoTech!

Please contact us if you have any questions.

Emission Quantifications for “EcoTech Sample Report”

Prepared For: **EcoTech**
Prepared By: **Your Arbor Inc. (“Arbor”)**

Description

The carbon emissions for this sample report were calculated using the Arbor Platform, a GRI-certified software. All calculations and outputs performed through the Arbor Platform follow GRI standards and guidelines set by the Greenhouse Gas Protocol (GHG) Protocol and the International Organization for Standardization (ISO), specifically ISO 14040, and ISO 14044.

All primary data inputs used were collected and confirmed by EcoTech. Based on both these primary data inputs and Arbor’s proprietary secondary data, Arbor calculated the carbon impact in carbon dioxide equivalents (CO_2e) for the following asset:

- EcoTech Sample Report

GHG Emissions

100.03 kg CO_2e

SAMPLE

Proof of Authenticity

THIS EQS HAS BEEN PREPARED FOR THE EXCLUSIVE USE AND BENEFIT OF [COMPANY NAME] ("CLIENT") AS PART OF A BROADER REPORT. THE EQS HAS BEEN PREPARED BASED ON DATA AND ASSUMPTIONS PROVIDED BY CLIENT, DATA AND OTHER INFORMATION FROM THIRD-PARTY SOURCES AND THE ANALYSIS OF SUCH DATA AND INFORMATION AS AVAILABLE AT THE TIME OF THE EQS CREATION. THE EQS IS PROVIDED "AS-IS", EXCLUSIVE OF ANY WARRANTY WHATSOEVER AND ARBOR SPECIFICALLY HEREBY DISCLAIMS ALL WARRANTIES AND CONDITIONS, WHETHER EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE EQS, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, OR NON-INFRINGEMENT, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, ARBOR MAKES NO WARRANTY OF ANY KIND THAT THE EQS, ANY DATA OR INFORMATION INCLUDED THERETO (INCLUDING FROM THIRD PARTY) OR THE USE THEREOF WILL BE ENTIRELY ACCURATE OR COMPLETE OR ACHIEVE ANY INTENDED RESULT. YOUR USE OF THE EQS OR ANY OF ITS CONTENT, INCLUDING ANY TRANSLATION THEREOF, IS AND WILL REMAIN, AT YOUR OWN RISK.

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