



GHG EMISSION REPORT

PATRIOT ECO APPAREL LTD

Reporting Period:

Year 2022

Year 2023

Year 2024

Year 2025 (January to December)





Introduction of GHG Emissions in Accordance with ISO 14064 and the GHG Protocol





GHG

PFCS CO₂ N₂O HFCS CH₄ SF₆



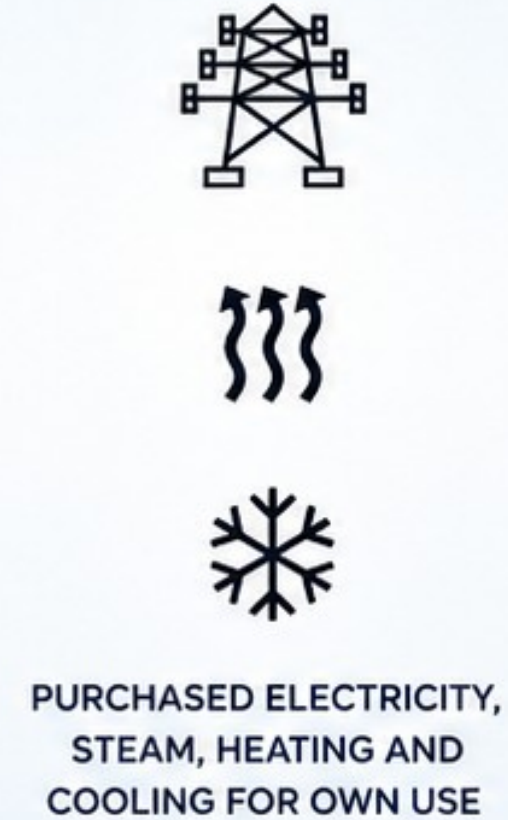
INDIRECT
Upstream activities



DIRECT



INDIRECT



INDIRECT
Downstream activities



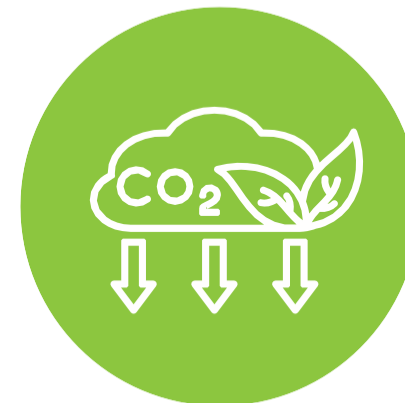
ISO 14064 and the GHG Protocol

1. Developing Accurate GHG Inventories

We systematically monitor and document greenhouse gas (GHG) emissions throughout all areas of our operations. Our emissions inventory captures all significant sources, offering a complete and precise overview of our GHG footprint.

4. Third-Party Verification

We engage independent third-party experts to verify our greenhouse gas (GHG) data, ensuring its accuracy and reliability. This reflects our commitment to transparency and accountability.



2. Implementing Emission Reduction Strategies

We are committed to cutting greenhouse gas emissions through focused strategies that achieve real impact. Our continuous efforts toward improvement allow us to consistently reduce emissions over time.

3. Transparent Reporting

We record our GHG emissions and reduction initiatives in accordance with ISO 14064 and the GHG Protocol to maintain transparent and responsible reporting.

Introduction of GHG EMISSION //

SCOPE 1

Direct Emission

Organization-owned emissions, on-site combustion, vital for assessing, reducing the entity's GHG footprint during period.



SCOPE 2

Indirect Emission

Indirect emissions from purchased energy, crucial for assessing and reducing an organization's environmental impact for period.



SCOPE 3

Other Indirect Emission

Indirect emissions from the entire value chain, encompassing suppliers, customers, influencing sustainability impact during period.





SCOPE 1

Direct GHG Emission

Organization-owned emissions, on-site combustion, vital for assessing, reducing the entity's GHG footprint during period.

Relevant SDGs



Stationary Combustion

Liquid fuels - Diesel

Year 2022

10,270

27.30

Year 2023

7,242

19.25

Year 2024

4,146

11.04

Year 2025

1933

5.20



Consumption
in litre



GHG Emission
TCO₂Eq

Mobile Combustion

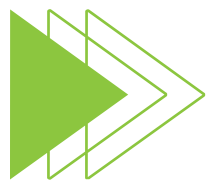
Consumption of Diesel, CNG, Octane & LPG in Cars



Year 2022

2,58,810

38.39



Year 2024

2,85,760

45.13



Year 2023

2,71,139

40.21



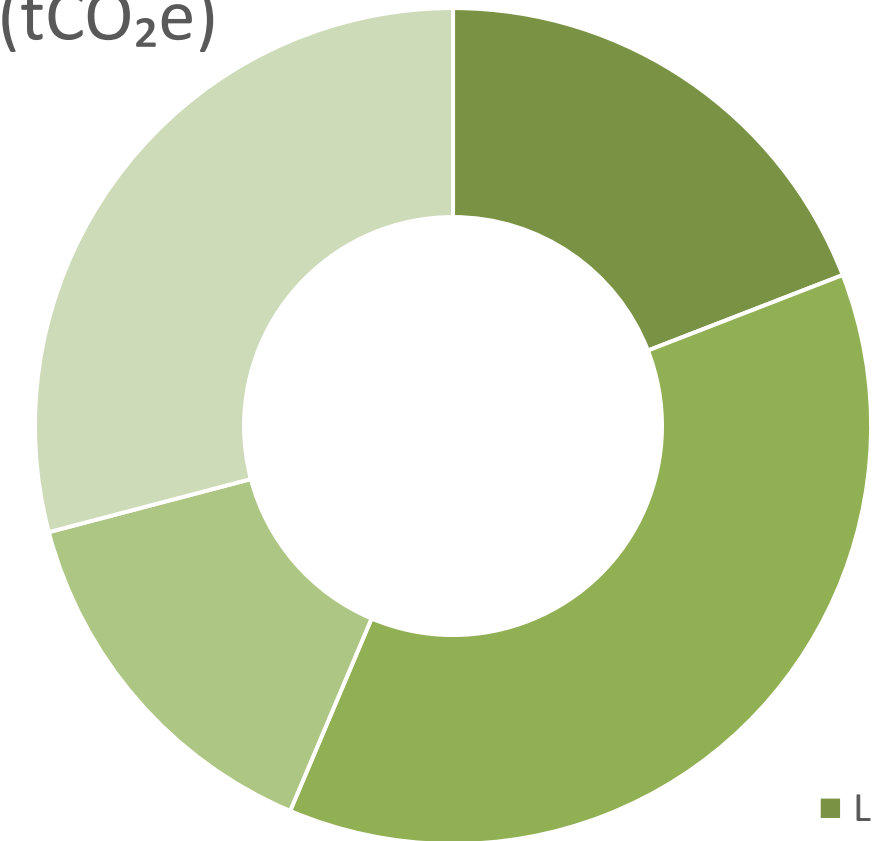
Year 2025

81,522

31.70

GHG Emission TCO₂Eq for Year 2025

Emission(tCO₂e)



■ LPG ■ Fuel
■ Diesel ■ Octane



Consumption
in km



GHG Emission
TCO₂Eq

Fugitive Emission

Consumption of Refrigerants - R410A

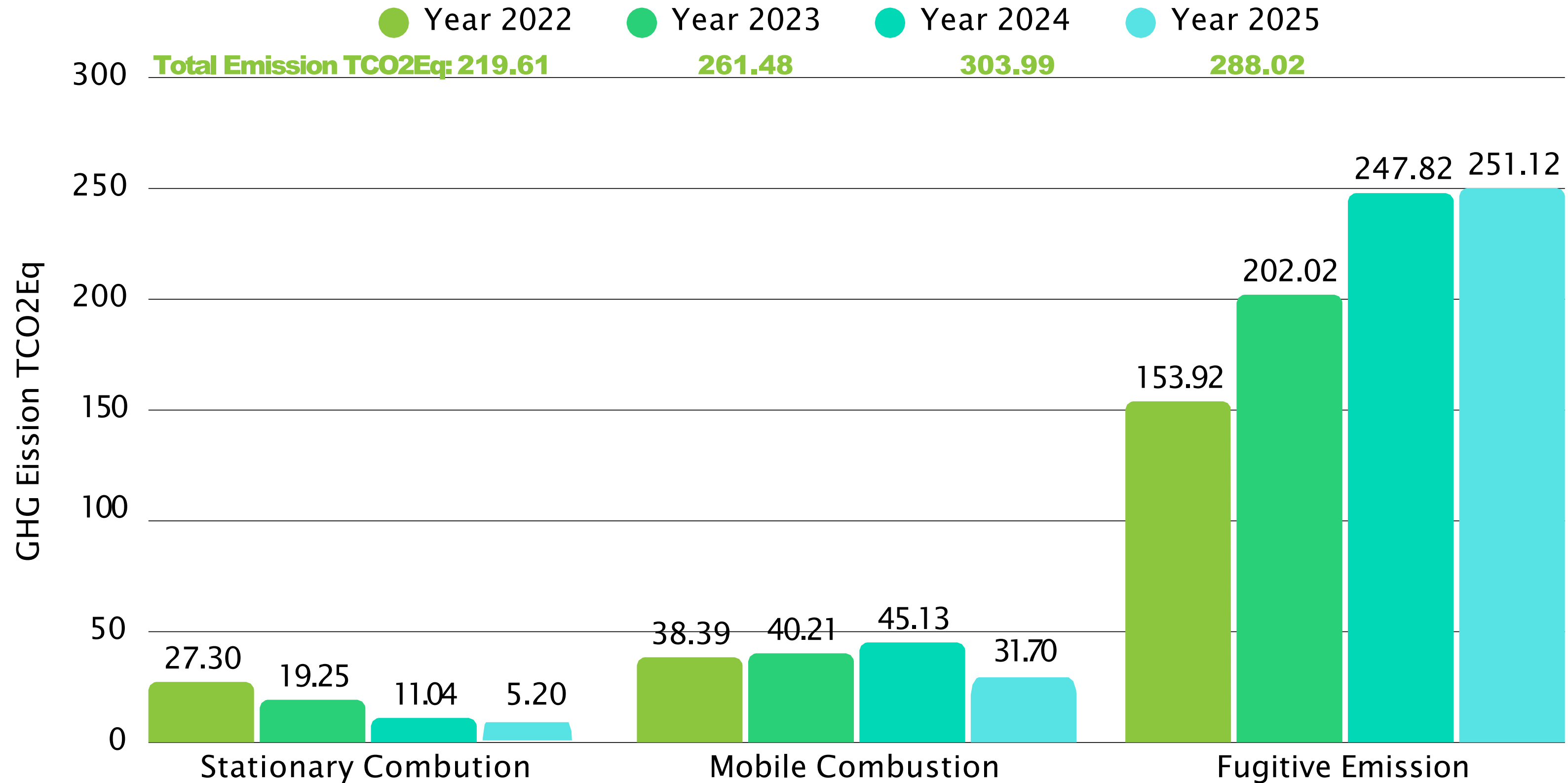


Consumption
in kg



GHG Emission
TCO₂Eq

Group level summary of Scope 1



SCOPE 2

Indirect GHG Emission

Indirect emissions from purchased energy, crucial for assessing and reducing an organization's environmental impact for period.



Relevant SDGs



/ Imported Electricity /



Year 2022

12,86,400

527.42

Year 2023

12,76,800

523.47

Year 2024

13,62,800

558.74

Year 2025

12,93,100

866.377



Consumption
in kWh



GHG Emission
TCO₂Eq

SCOPE 3

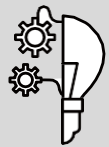
Other Indirect GHG Emission

Indirect emissions from the entire value chain, encompassing suppliers, customers, influencing sustainability impact during period.

Relevant SDGs



Category of Scope 3



**Transmission &
Distribution Loss**



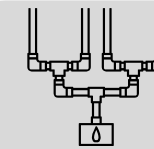
Upstream Activities



Downstream Activities



Waste Disposal



Water Supply

/Transmission & Distribution Loss/



Year 2022

12,86,400

24.20

Year 2023

12,76,800

24.01

Year 2024

13,62,800

25.61

Year 2025

9,74,745

29.75



Consumption
in kWh



GHG Emission
TCO₂Eq

Upstream Activities

Transportation of Raw materials by Vans

Year 2022	Year 2023	Year 2024	Year 2025
18,801	26,792	36,600	41,864
2.69	3.8	5.62	5.87



Consumption
in km



GHG Emission
TCO₂Eq

Downstream Activities

Transportation of Finishing Goods by Vans

Year 2022	Year 2023	Year 2024	Year 2025
1,74,053	2,03,715	2,73,094	2,11,354
40.27	47.11	68.35	59.88



Consumption
in km



GHG Emission
TCO₂Eq

Waste Disposal

Generation of Hazardous & Non-Hazardous waste

Year 2022

419.01

208.12

Year 2023

440.07

218.61

Year 2024

510.83

253.73

Year 2025

875.8

298.24



Generation in
tonne



GHG Emission
TCO₂Eq

Water Supply

Year 2022

— “ —
18,690
2.78
— ” —

Year 2023

— “ —
22,763
4.00
— ” —

Year 2024

— “ —
19,458
2.98
— ” —

Year 2025

— “ —
38,964
4.1
— ” —



Consumption
in cubic meter



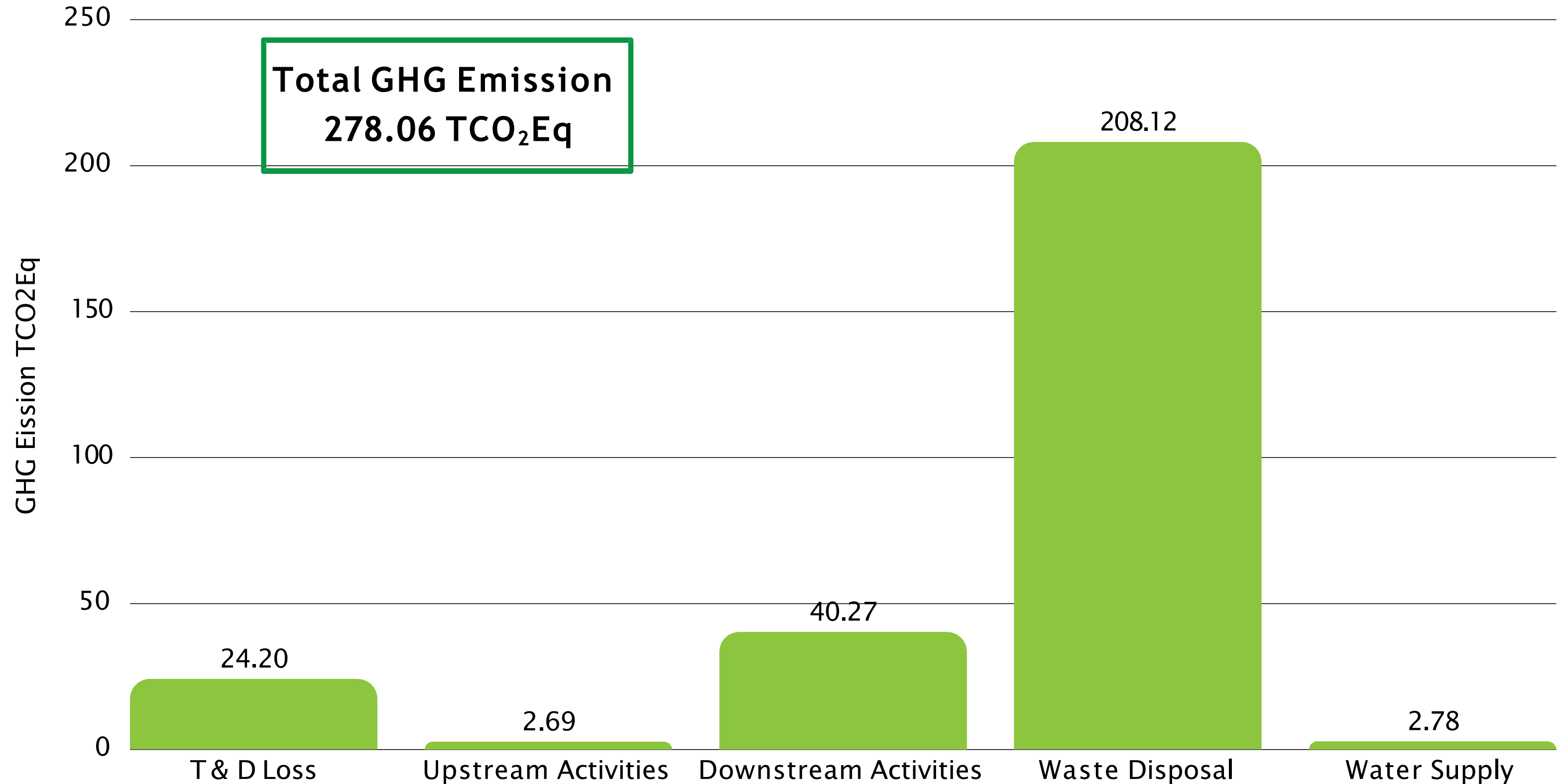
GHG Emission
TCO₂Eq

Group Level Summary of Scope 3



Total GHG Emission TCO₂Eq

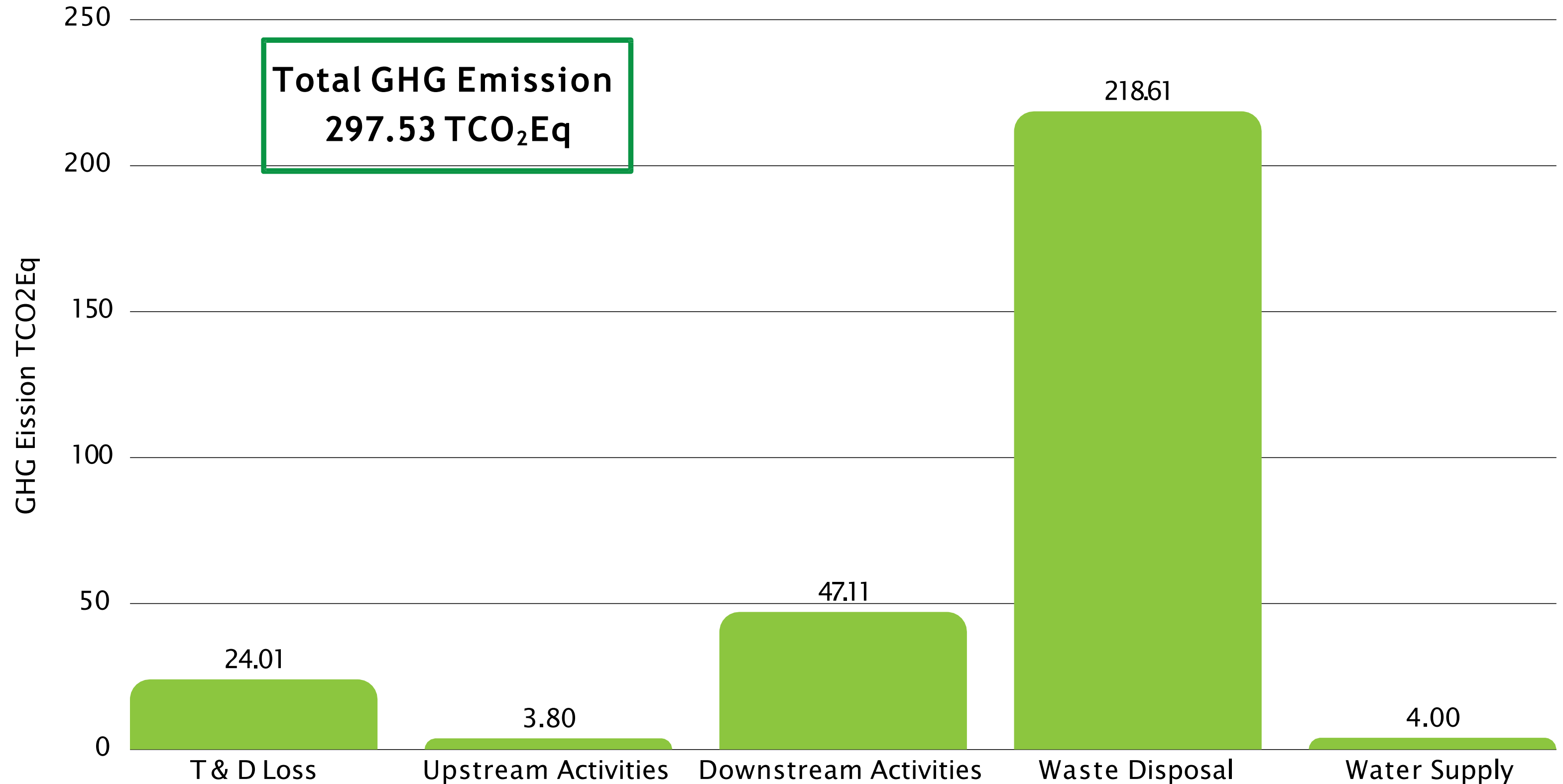
Reporting Period
Year 202



Group Level Summary of Scope 3

Total GHG Emission TCO₂Eq

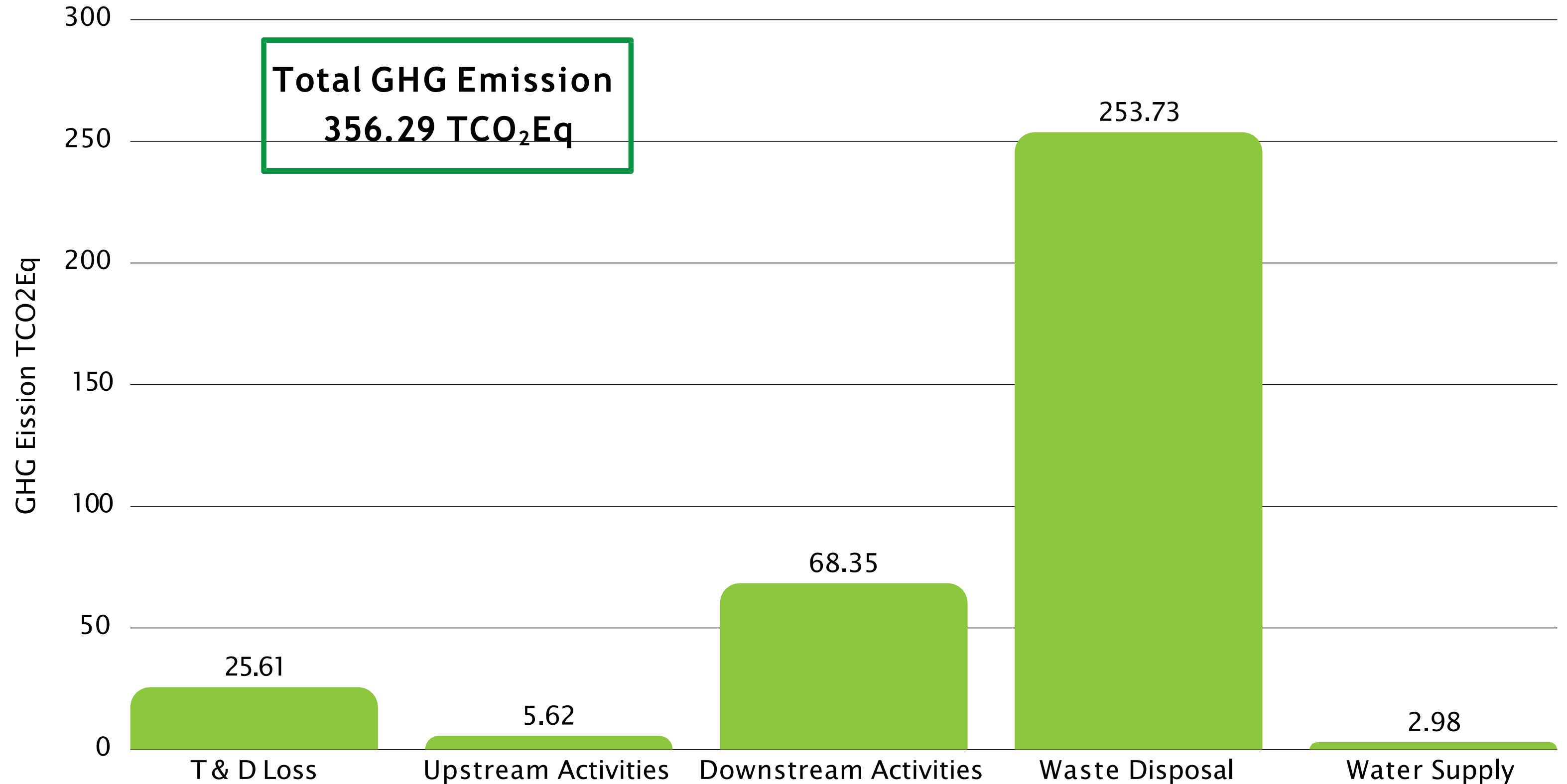
Reporting Period
Year 2023



Group Level Summary of Scope 3

Total GHG Emission TCO₂Eq

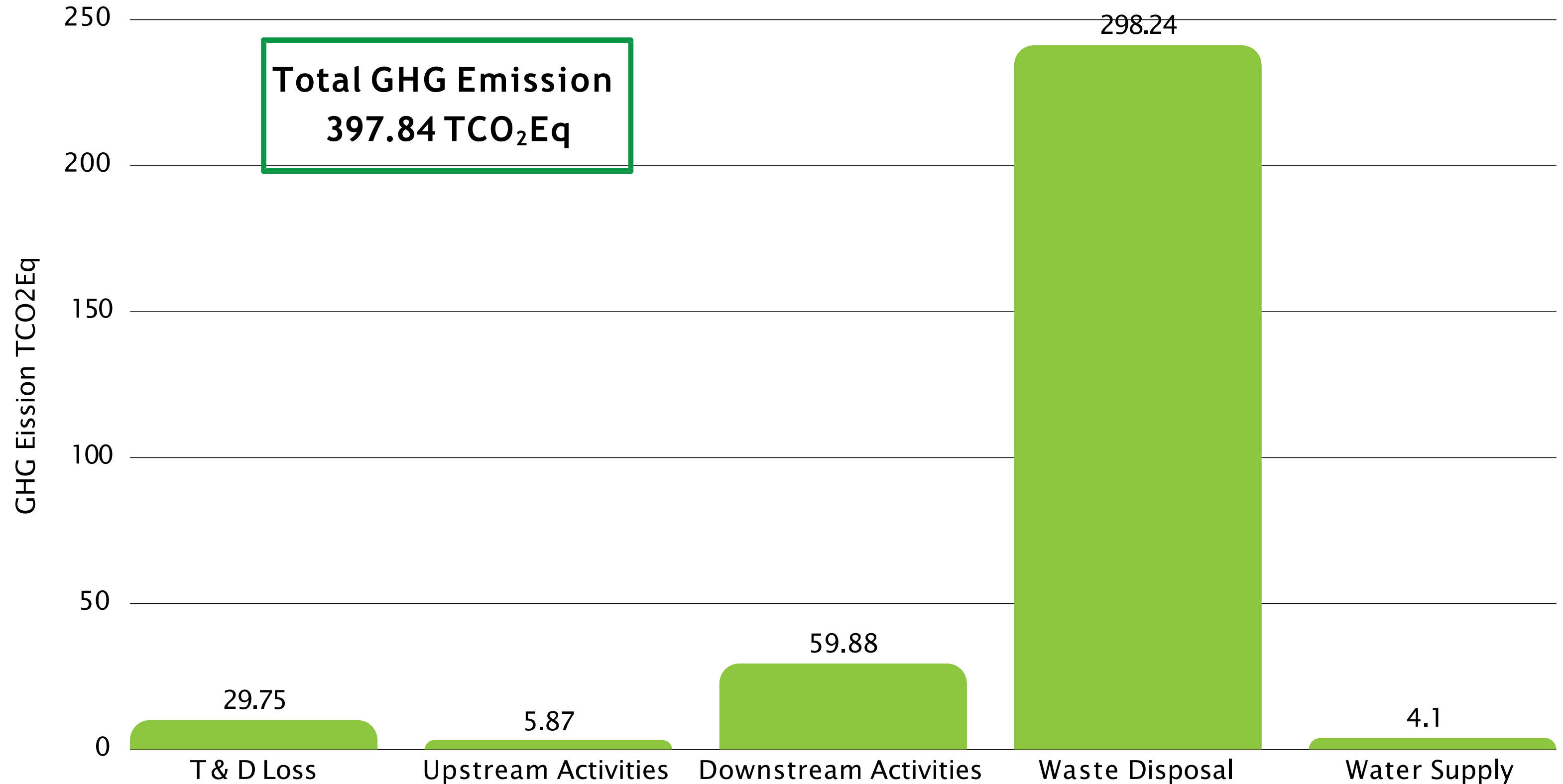
Reporting Period
Year 2024



Group Level Summary of Scope 3

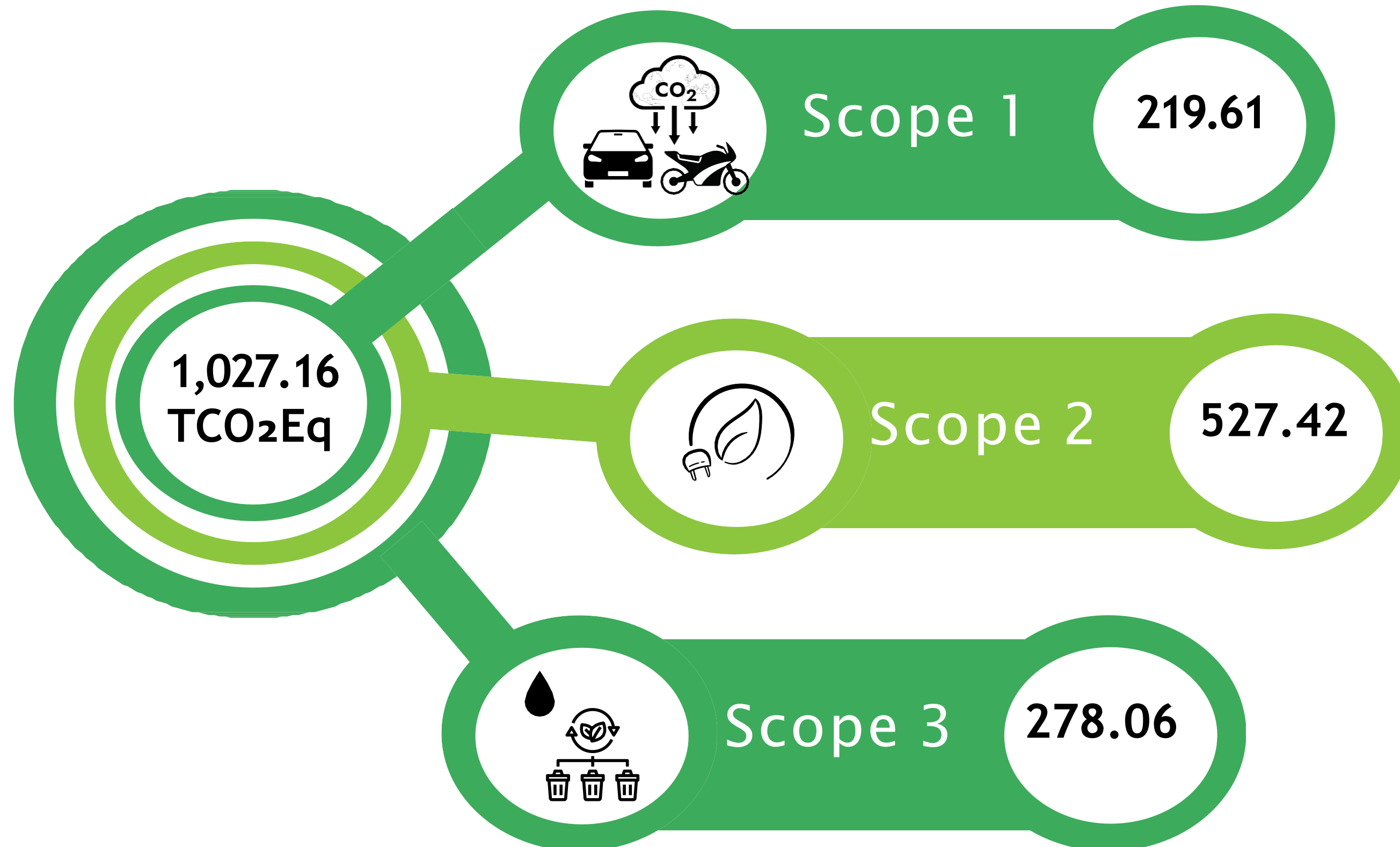
Total GHG Emission TCO₂Eq

Reporting Period
Year 2025 (Jan to Dec)



Total group level GHG Emission in TCO₂Eq

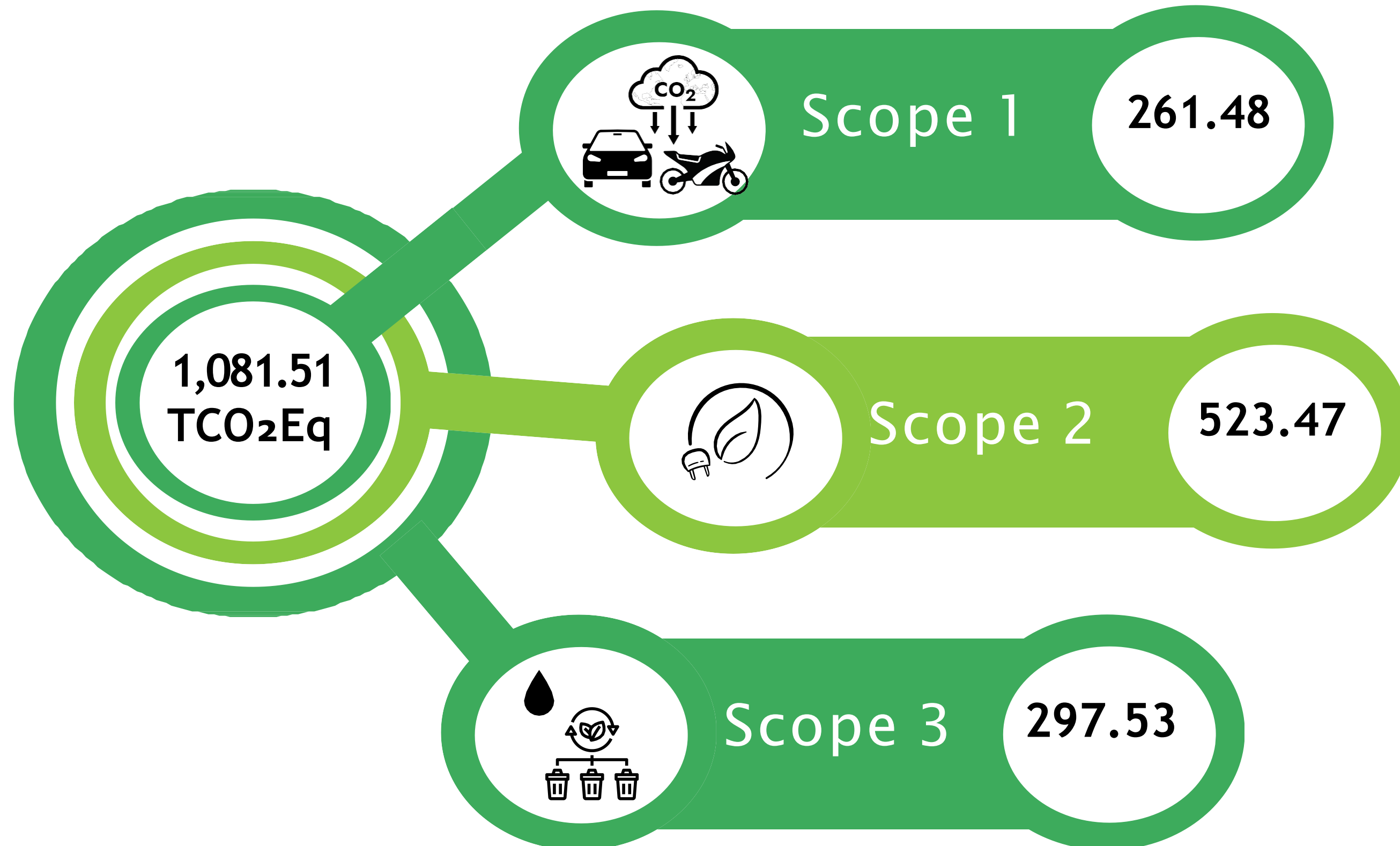
Reporting Period
Year 2022



Total group level GHG Emission in TCO₂Eq

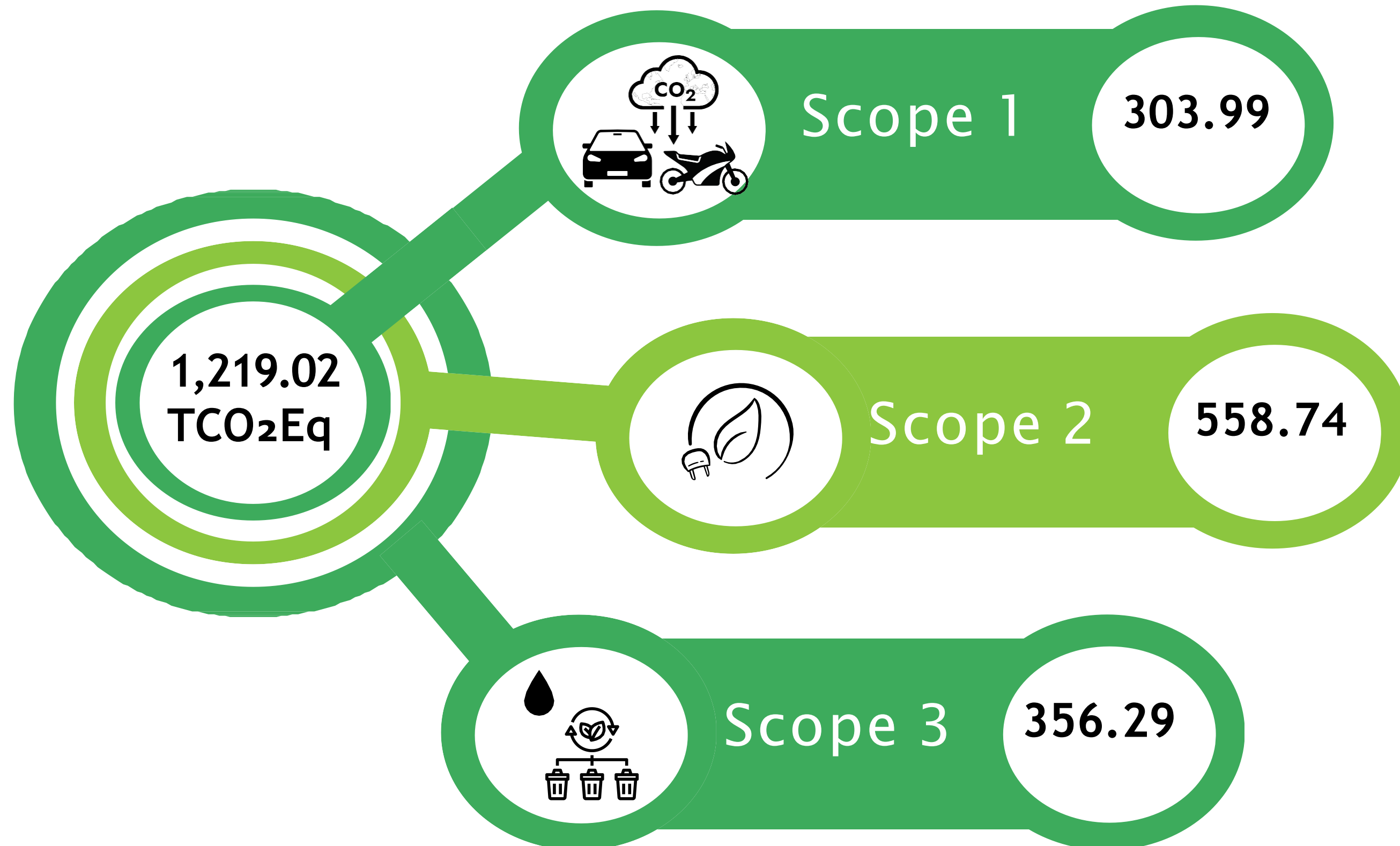
Reporting Period

Year 2023



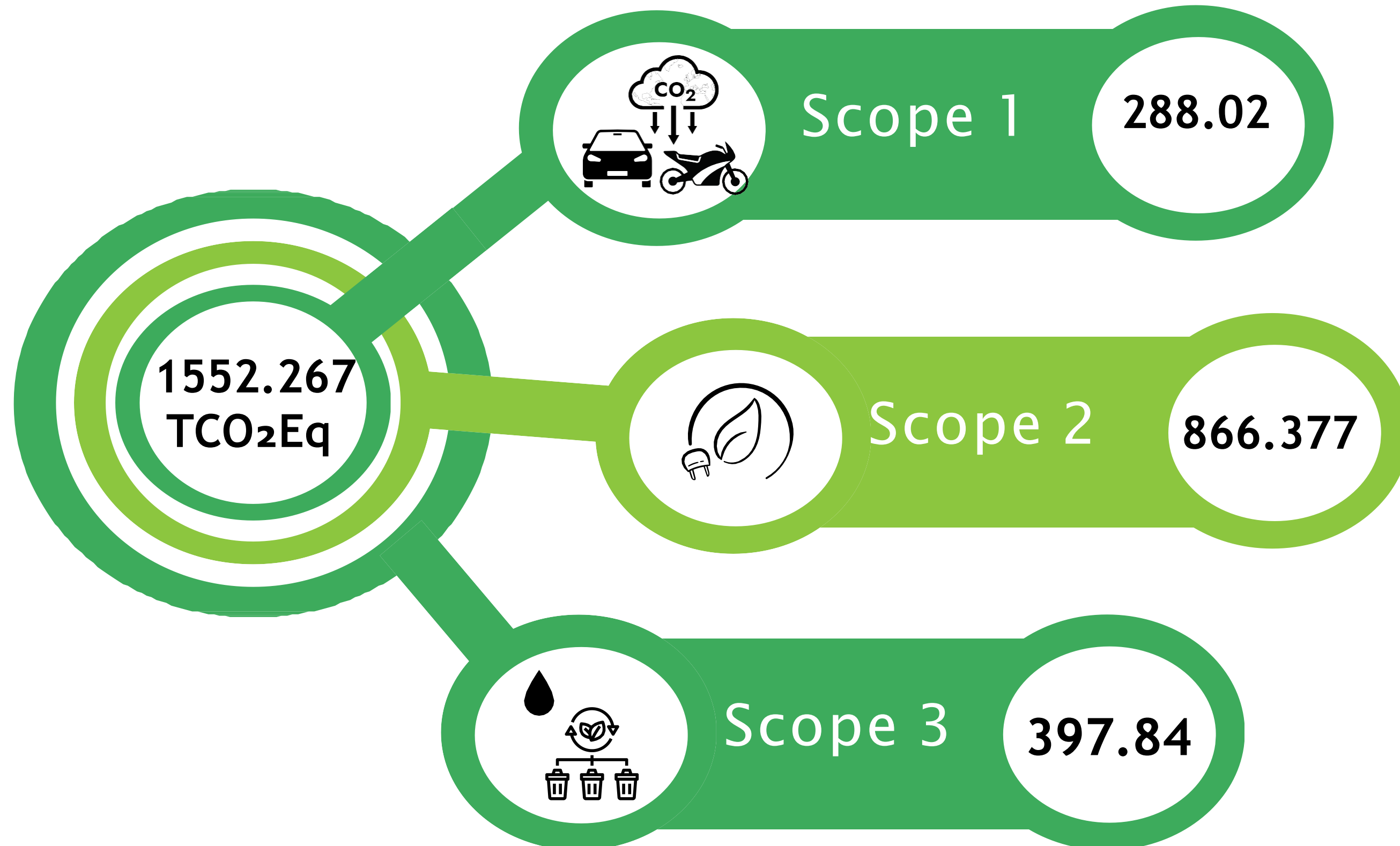
Total group level GHG Emission in TCO₂Eq

Reporting Period
Year 2024



Total group level GHG Emission in TCO₂Eq

Reporting Period
Year 2025 (Jan to Dec)



GHG Emission Reduction Budget Plan

As of Patriot Eco Apparel Ltd. has allocated a budget of \$380,000 USD. This budget will be used to implement targeted reduction measures such as machinery upgrades, solar power installation, green energy procurement, logistics optimization, and carbon offset investments. Each initiative will be carefully planned to maximize impact.

Key Strategies for GHG Emission Reduction

- Upgrade machinery, optimize production processes, and implement waste heat recovery to improve energy efficiency.
- Install solar panels, purchase green electricity, and transition to low-carbon fuel sources.
- Source sustainable raw materials, engage suppliers for emission reduction, and optimize transportation.
- Invest in afforestation, carbon capture, and certified carbon offset projects.
- Implement real-time emissions tracking, conduct third-party audits.

Budget Table – GHG Emission Reduction Plan



Scope	Emission Reduction Strategy	Time Period	Budget (USD)	Description	Team Responsibility	Key Performance Indicators (KPIs)
Scope 1	Energy efficiency upgrades in machinery	12 months (2026)	\$50,000	Replacing outdated equipment to reduce fuel emissions.	Engineering & Maintenance Team	Reduction in energy consumption (kWh)
Scope 1	Transition to low-carbon fuel sources	18 months (2025-2026)	\$60,000	Switching to biofuels and alternative energy.	Operations & Energy Management Team	% of fuel replaced by biofuels
Scope 2	Solar capacity expansion & storage integration	18 months (2025-2026)	\$70,000	Expanding existing solar system, adding battery storage, and upgrading to high-efficiency panels to maximize renewable energy use	Sustainability & Procurement Team	Additional solar energy generated (MWh) & % of total energy demand met by solar
Scope 2	Green power purchase agreements	12 months (2026)	\$40,000	Procuring certified renewable electricity.	Finance & Procurement Team	% of energy sourced from renewables
Scope 3	Sustainable raw material sourcing	24 months (2025-2027)	\$60,000	Increasing the use of recycled and low-carbon materials.	Supply Chain & Procurement Team	% of materials with sustainability certification
Scope 3	Transportation & logistics optimization	18 months (2026-2027)	\$40,000	Optimizing routes and transitioning to low-emission transport.	Logistics & Supply Chain Team	Reduction in fuel consumption (liters)
Scope 3	Carbon offset initiatives	24 months (2025-2027)	\$60,000	Investing in afforestation and carbon capture projects.	Sustainability Team	Amount of CO ₂ offset (tCO ₂ e)