

# **GHG EMISSION REPORT**

## **APACKAGING GROUP LLC**

### **REPORTING PERIOD**

**YEAR 2022**

**YEAR 2023**

**YEAR 2024**

**YEAR 2025 (JAN & NOV)**



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





PFCS CO<sub>2</sub> N<sub>2</sub>O HFCS CH<sub>4</sub> SF<sub>6</sub>

## SCOPE 3

INDIRECT

Upstream activities



WASTE  
GENERATED IN  
OPERATIONS



LEASED  
ASSETS



BUSINESS  
TRAVEL



FUEL AND  
ENERGY  
RELATED



TRANSPORTATION  
AND  
DISTRIBUTION



PURCHASED  
GOODS AND  
SERVICES



CAPITAL  
GOODS

## SCOPE 1

DIRECT

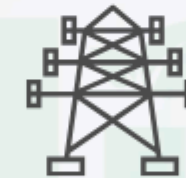


COMPANY  
FACILITIES &  
VEHICLES



## SCOPE 2

INDIRECT



PURCHASED ELECTRICITY,  
STEAM, HEATING AND  
COOLING FOR OWN USE



## SCOPE 3

INDIRECT

Downstream activities

FRANCHISES



INVESTMENTS

END-OF-LIFE  
TREATMENT OF  
SOLD PRODUCTS



LEASED  
ASSETS

PROCESSING  
OF SOLD  
PRODUCTS



USE OF SOLD  
PRODUCTS

TRANSPORTATION  
AND  
DISTRIBUTION

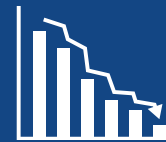


# ISO 14064 and GHG Protocol



## 1. Developing Accurate GHG Inventories

We carefully track and record our GHG emissions across all operations, ensuring that our inventory includes all relevant emission sources and delivers complete, accurate, and transparent reporting.



## 2. Emission Reduction Strategies

We actively seek opportunities to reduce GHG emissions and implement effective strategies to achieve these reductions. Through continuous monitoring and improvement of our processes, we work to minimize our GHG footprint and enhance sustainability.



## 3. Transparent Reporting

We deliver comprehensive reports on our GHG emissions and reduction measures, ensuring transparency and accountability. Our reporting aligns closely with ISO 14064 and the GHG Protocol standards, reflecting our strong commitment to integrity and responsibility.



## 4. Independent Verification by Third Party Auditors

To ensure accuracy and credibility, we engage third party auditors to validate and verify our GHG data. This independent verification reflects our commitment to transparency and accountability.



## Ohio, USA

APG's newest flagship domestic packaging manufacturing facility offers state-of-the-art production for our new innovative pump series. Housing over 130 dedicated employees, our Ohio plant is capable of outputting over 500 million units per year.



Azusa, California

## California, USA

APG's headquarter warehouse features primary warehousing, logistics, and home office operations for our global customers.



## California, USA

APG's sister production facility built for state-of-the-art contract manufacturing capable of high-volume compounding, filling, and labelling.

# ABOUT GHG EMISSION



## Scope 1

### DIRECT GHG EMISSION

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



## Scope 2

### INDIRECT GHG EMISSION

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



## Scope 3

### OTHER INDIRECT GHG 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.



# Stationary Combustion

## Consumption of Gaseous fuels – Natural gas

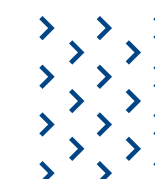
Year 2022	Year 2023	Year 2024	Year 2025
5,667.00	35,748.00	12,062.00	25,034.00
11.56	72.87	24.60	51.20



Consumption in  
cubic metres

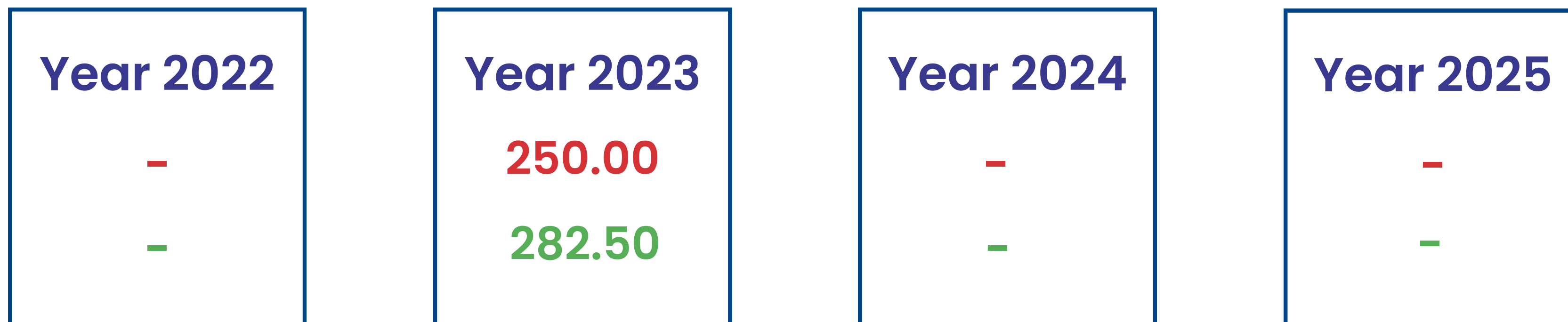


GHG Emission  
TCO<sub>2</sub>Eq



# Fugitive Emissions

## Refilling of Refrigerants – R401A



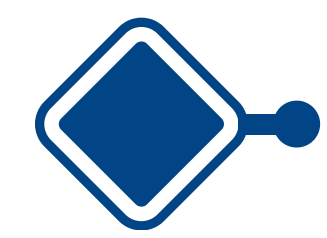
Consumption in  
kg



GHG Emission  
TCO<sub>2</sub>Eq

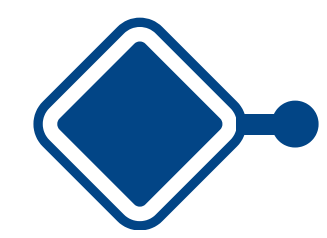


# Group Level Summary of Scope 1 GHG Emission TCO<sub>2</sub>Eq



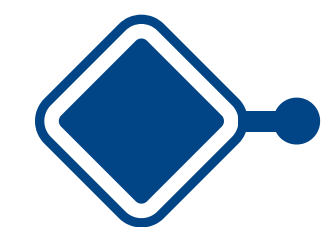
**Year 2022**

**11.56**



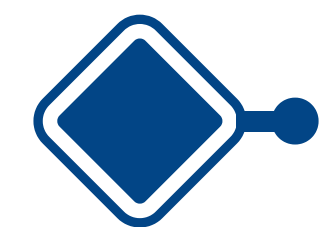
**Year 2023**

**355.37**



**Year 2024**

**24.60**



**Year 2025**

**51.20**





## SCOPE 2

### INDIRECT GHG EMISSION

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

# Solar Generated Electricity

○ ○ ○ ○



Year 2022



Year 2023



Year 2024



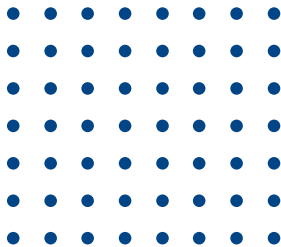
Year 2025



Generation in  
kWh



Avoided GHG  
Emission TCO<sub>2</sub>Eq



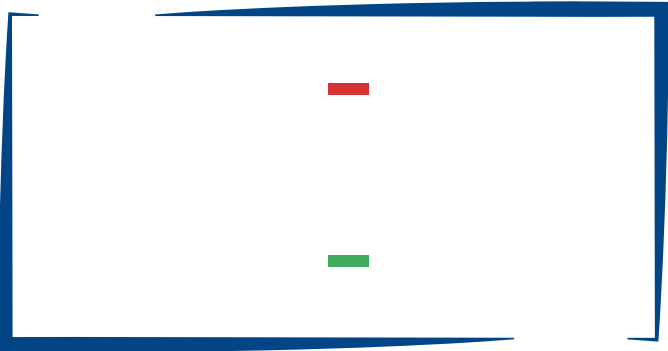


# District Cooling

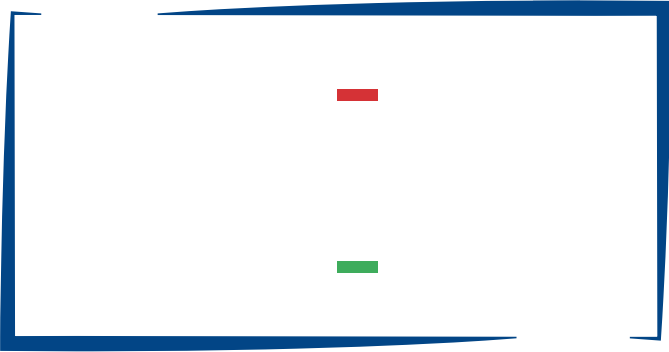
○ ○ ○ ○



Year 2022



Year 2023



Year 2024



Year 2025



Ton of Refrigeration



GHG Emission  
TCO<sub>2</sub>Eq





## SCOPE 3

### OTHER INDIRECT GHG EMISSION

Indirect emissions from the entire value chain, including suppliers and customers, impact sustainability throughout the period by influencing resource use, production processes, and consumption patterns.

## CATEGORIES OF SCOPE 3

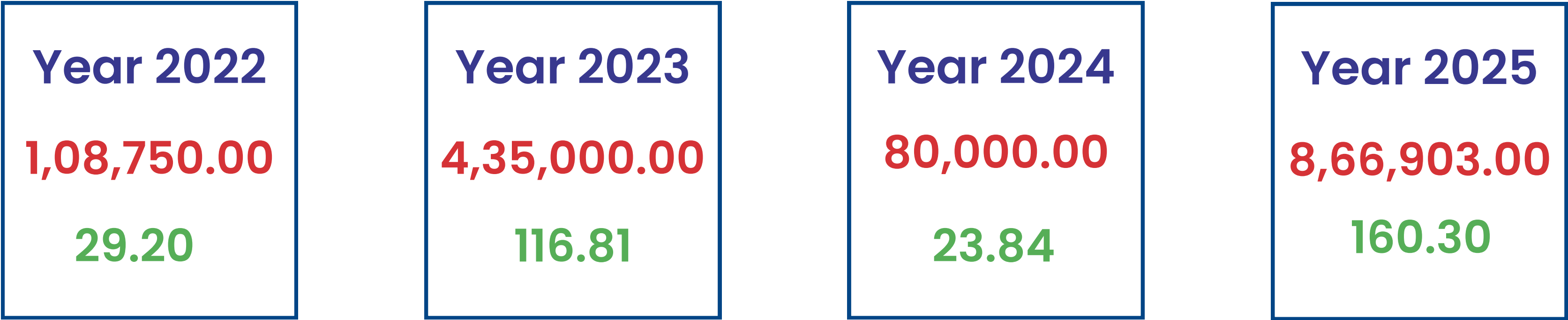


- ✓ Employee Commute
- ✓ Purchased Goods
- ✓ Upstream Activity
- ✓ Downstream Activity
- ✓ Waste Disposal
- ✓ Water Supply
- ✓ Water Treatment
- ✓ Business Travel
- ✓ Hotel Stay



# Employee Commute

## Using of car



miles travelled



GHG Emission  
TCO<sub>2</sub>Eq





# Purchased Goods

## Purchasing of Plastic – Plastics: average plastics



Consumption  
in tonnes



GHG Emission  
TCO<sub>2</sub>Eq



# Upstream Transport

## Transportation of Raw material by Rail

▶▶ Year 2022	▶▶ Year 2023	▶▶ Year 2024	▶▶ Year 2025
5,000.00	70,000.00	63,278.00	66,375.00
20.84	1,340.82	1,212.06	1,309.64

# Downstream Activity

## Transportation of Finishing Goods by Rail



Year 2022

8,000.00

48.02



Year 2023

80,000.00

1,556.24



Year 2024

92,000.00

1,789.68



Year 2025

78,200.00

1,521.22



km travelled



GHG Emission  
TCO<sub>2</sub>Eq

# Waste Disposal

Generation of Paper, Plastic, Organic: food and drink & Commercial and industrial waste

> Year 2022	> Year 2023	> Year 2024	> Year 2025
9.00	50.00	57.50	48.88
2.09	19.62	22.56	19.18



Generation in tonnes



GHG Emission TCO<sub>2</sub>Eq



# Water Supply

## Consumption of water

○ ○ ○ ○

Year 2022	Year 2023	Year 2024	Year 2025
7.66	—	30.66	32.55
0.00	—	0.01	0.01



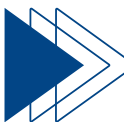
Total cubic meter



GHG Emission  
TCO<sub>2</sub>Eq

# Business Travel

## Air Travel by Flights



Year 2022

—

—



Year 2023

7,258.00

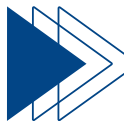
0.96



Year 2024

1,224.00

0.16



Year 2025

1,365.00

0.18



km travelled



GHG Emission  
TCO<sub>2</sub>Eq

# Business Travel

## Land Travel by Cars



Year 2022

—

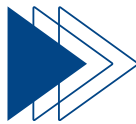
—



Year 2023

3,472.00

1.20



Year 2024

1,984.00

0.66



Year 2025

18,198.00

3.08



miles travelled



GHG Emission  
TCO<sub>2</sub>Eq



# Hotel stay

○○○○

Year 2022

—

—

Year 2023

18.00

0.29

Year 2024

5.00

0.08

Year 2025

48.00

0.76



Total Number of  
Nights Stayed

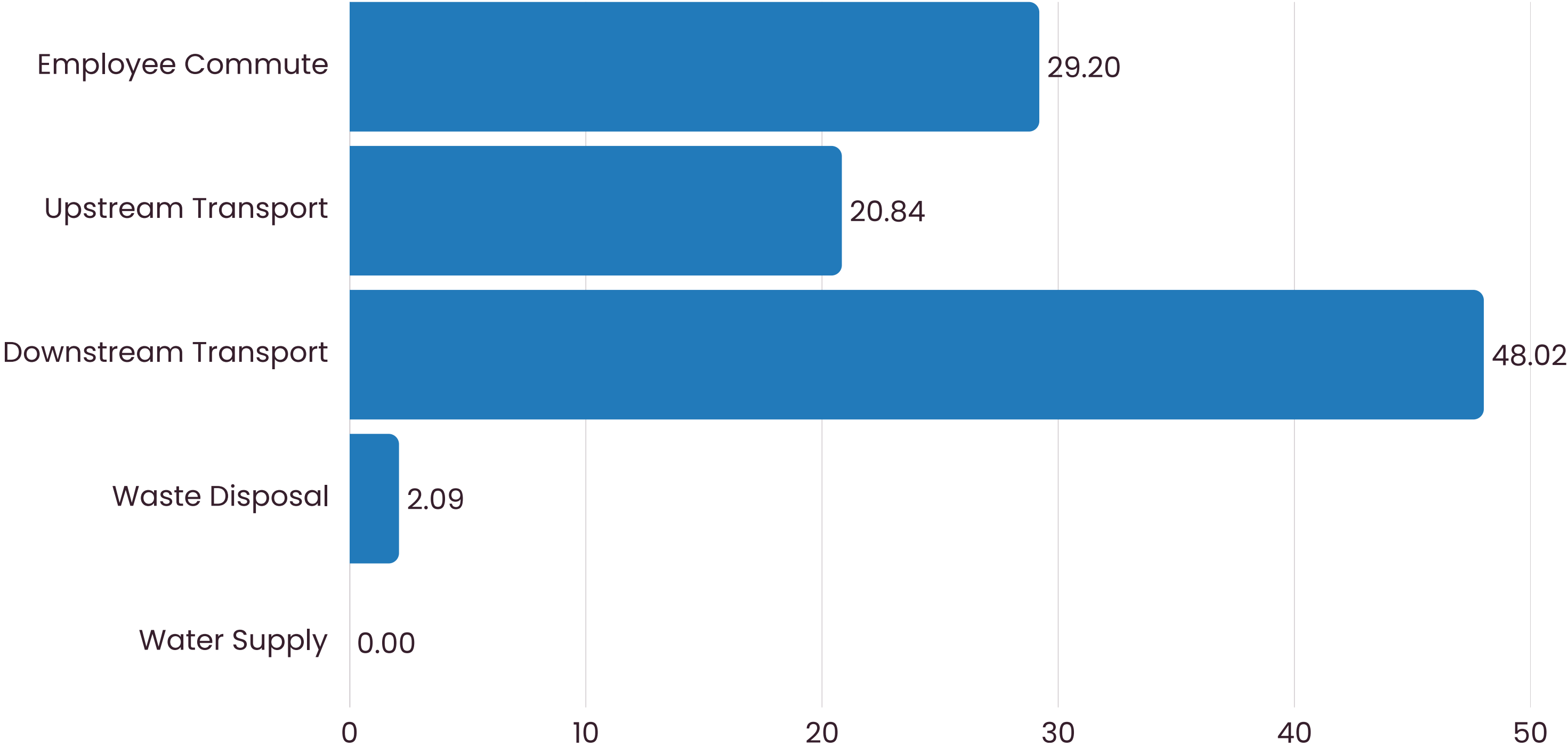


GHG Emission  
TCO<sub>2</sub>Eq



# Group Level Summary of Scope 3

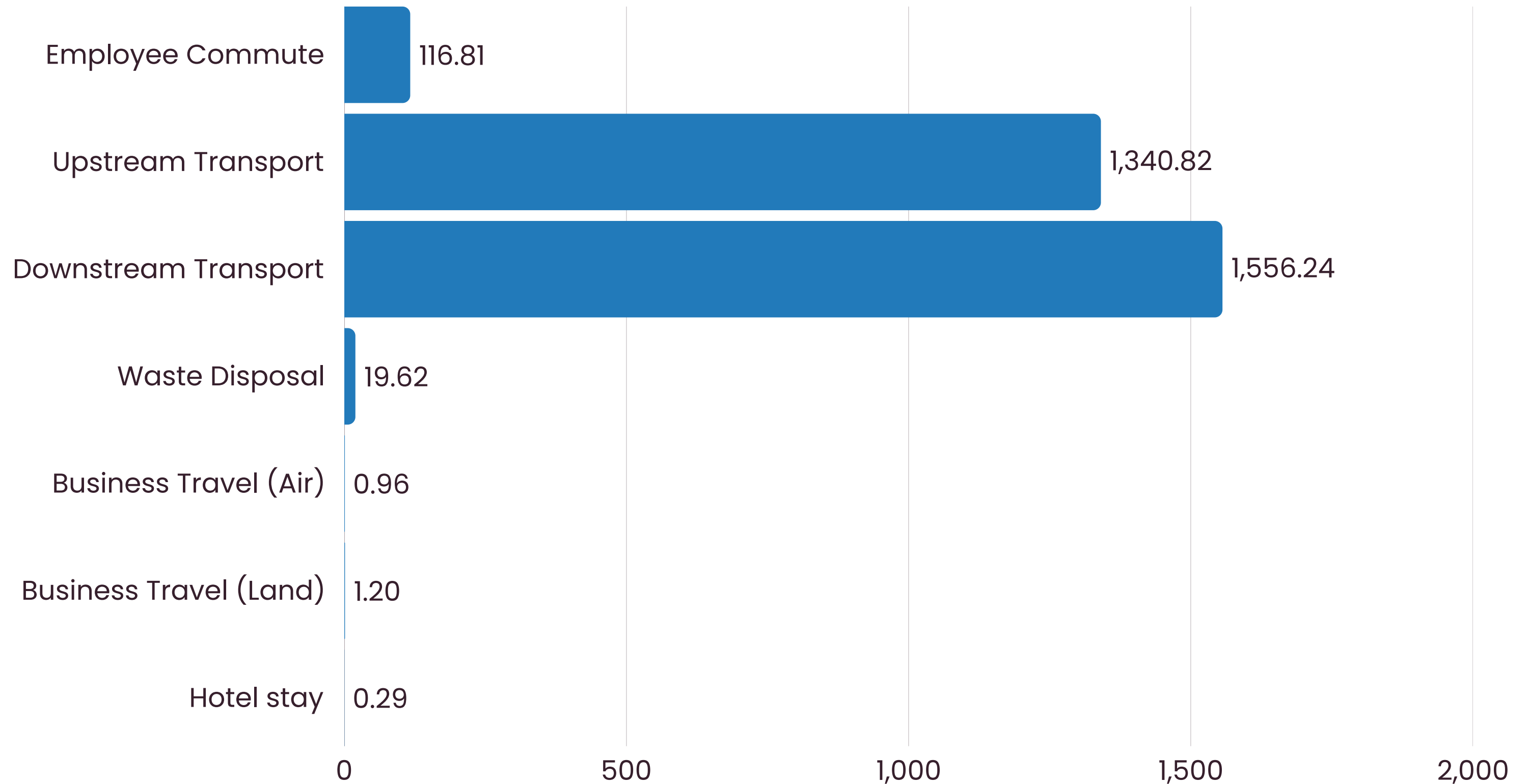
Reporting Period  
Year 2022



Total GHG Emission 100.15 TCO<sub>2</sub>Eq

## Group Level Summary of Scope 3

Reporting Period  
Year 2023

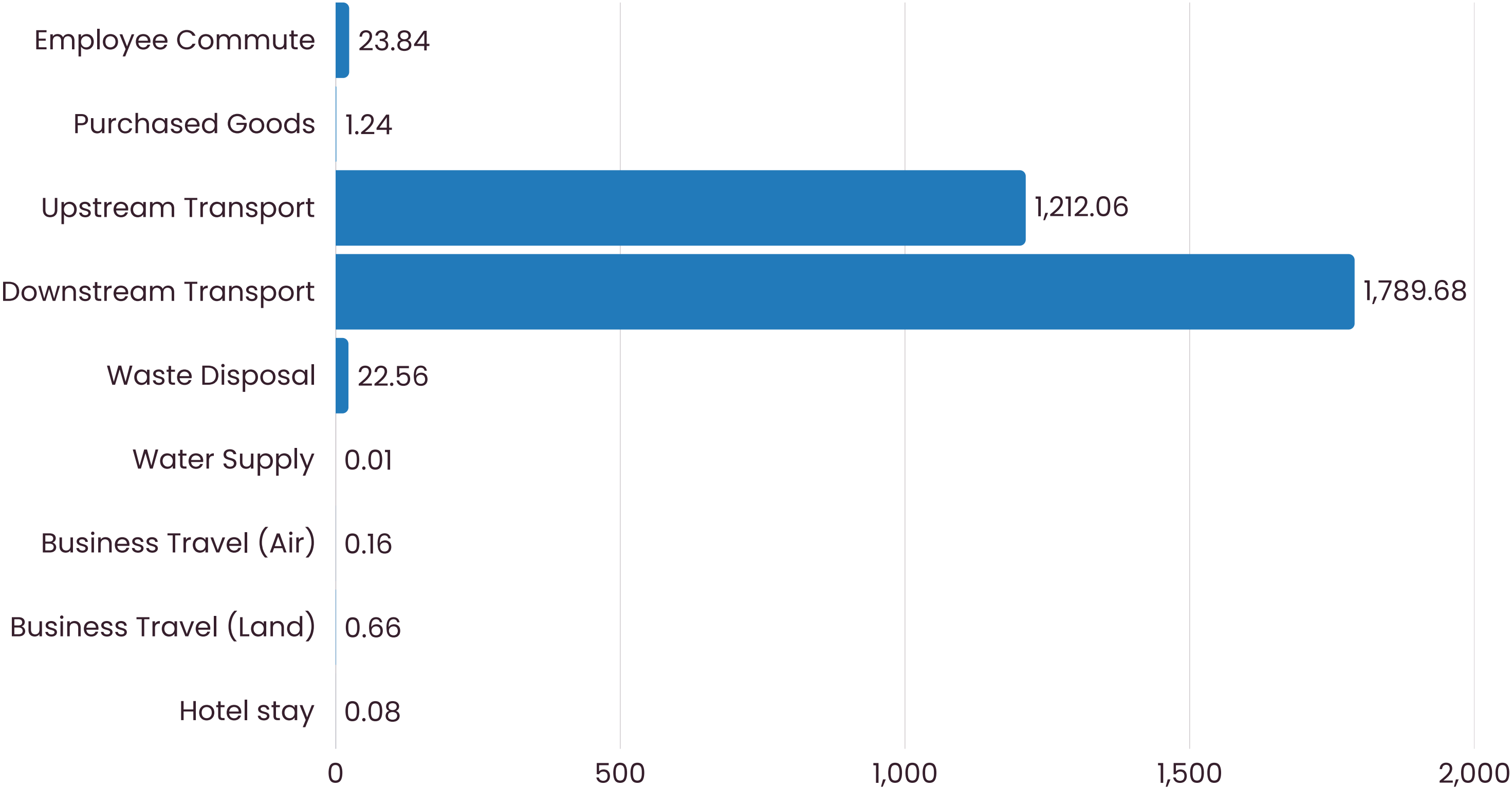


Total GHG Emission 3,035.94 TCO<sub>2</sub>Eq



Group Level Summary of Scope 3

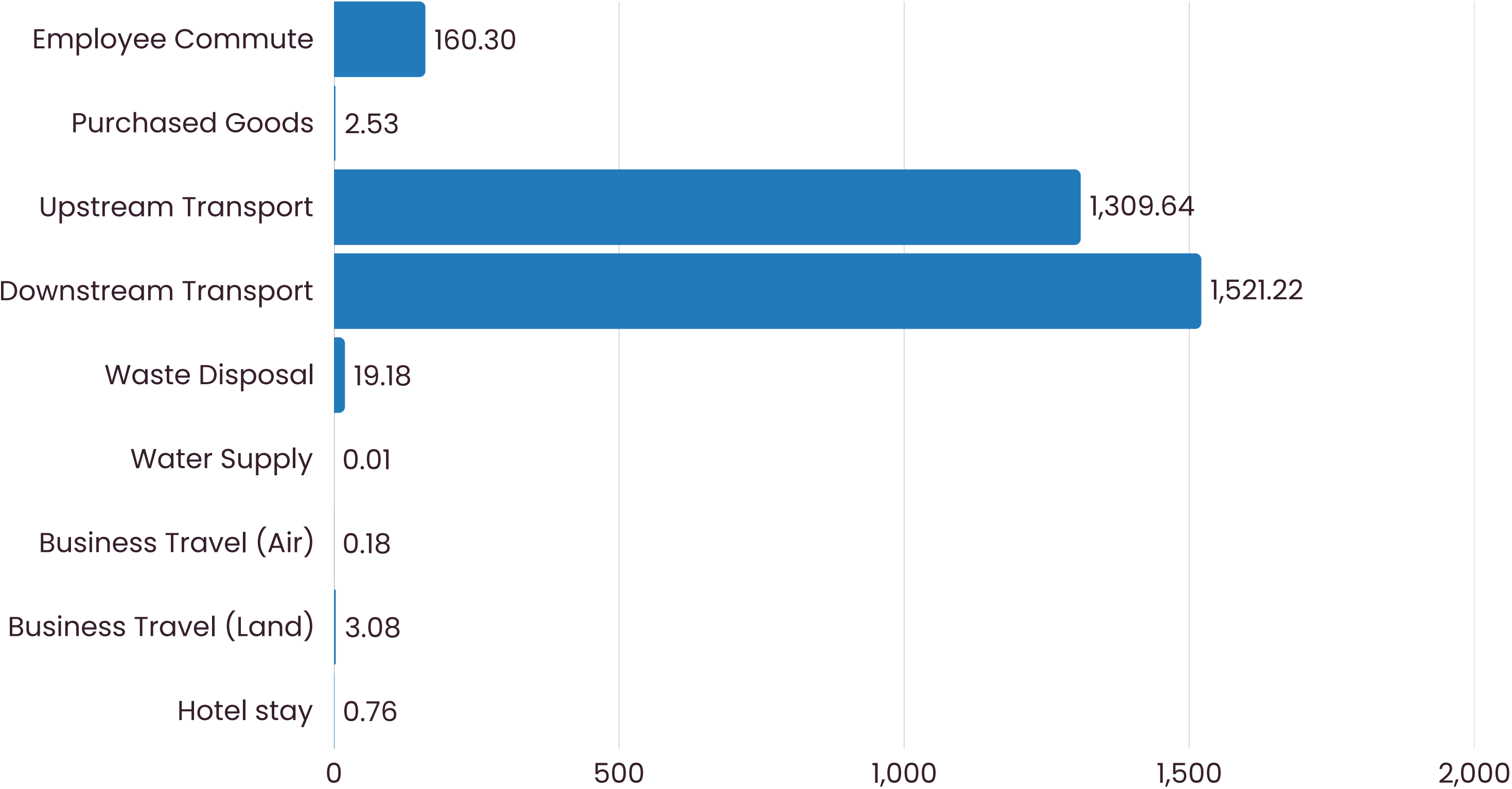
Reporting Period  
Year 2024



Total GHG Emission 3,050.29 TCO<sub>2</sub>Eq

Group Level Summary of Scope 3

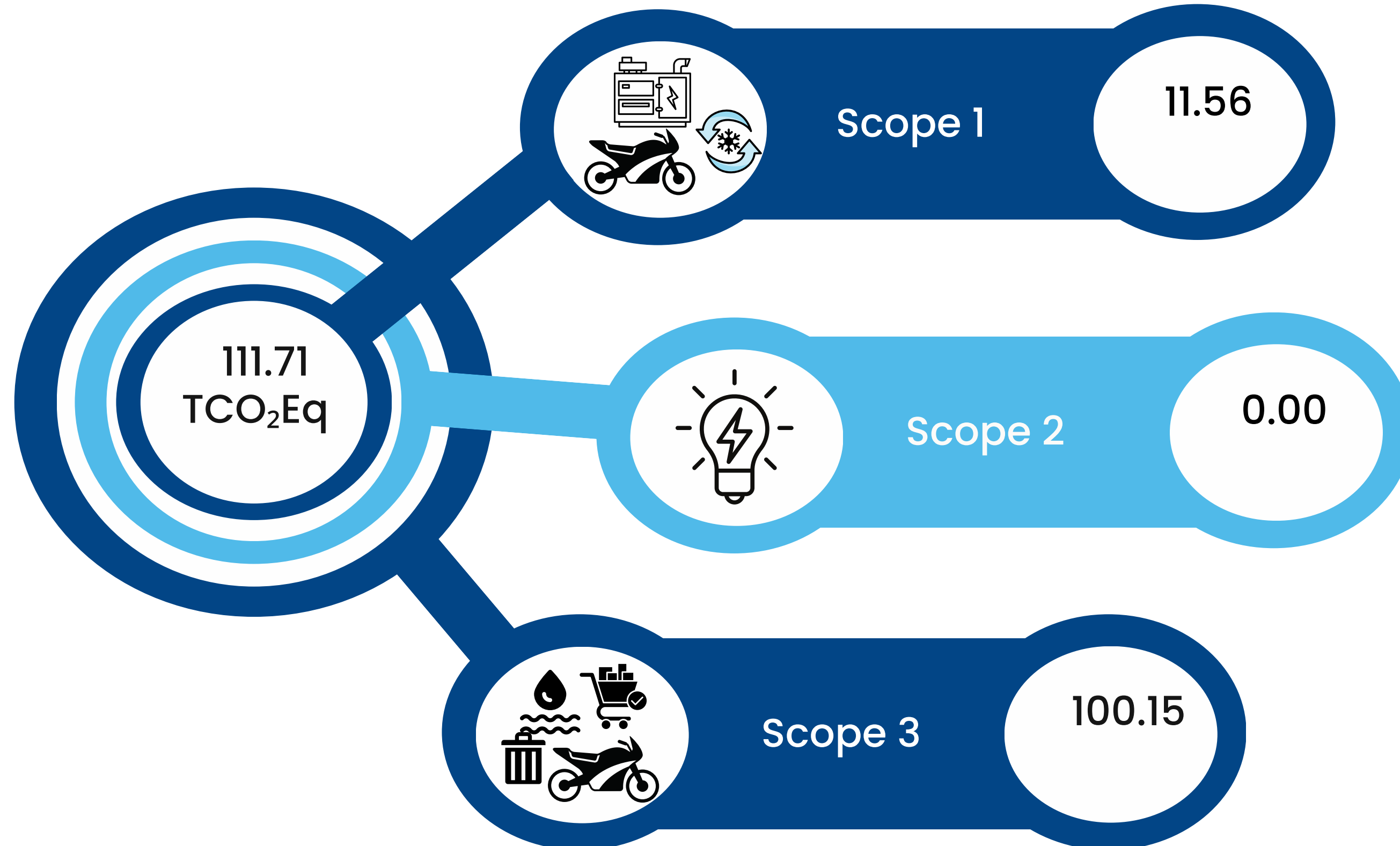
Reporting Period  
Year 2025 (Jan to Nov)



Total GHG Emission 3,016.90 TCO<sub>2</sub>Eq

# Total Group Level GHG Emission TCO<sub>2</sub>Eq

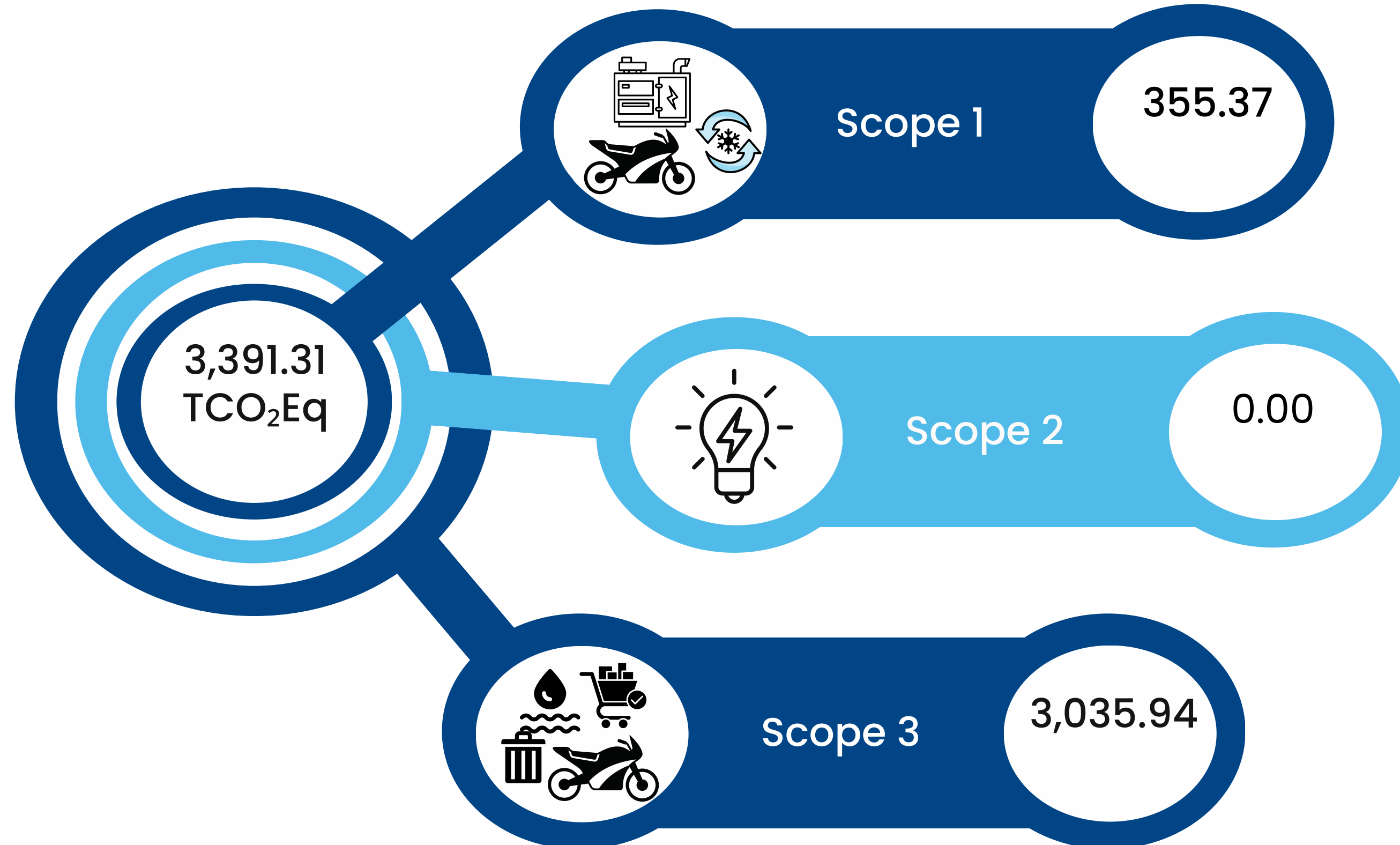
**Reporting Period**  
**Year 2022**





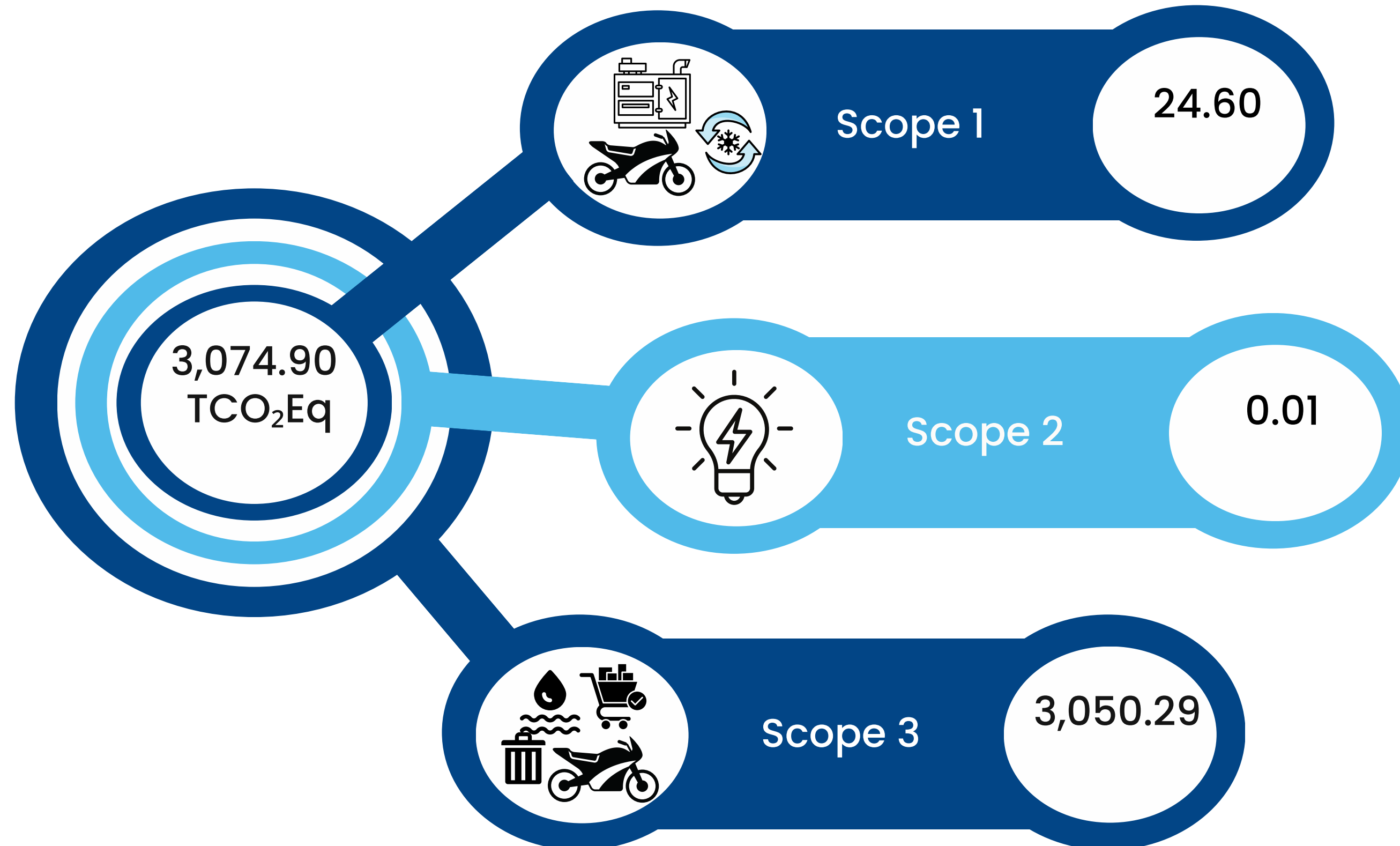
# Total Group Level GHG Emission TCO<sub>2</sub>Eq

Reporting Period  
Year 2023



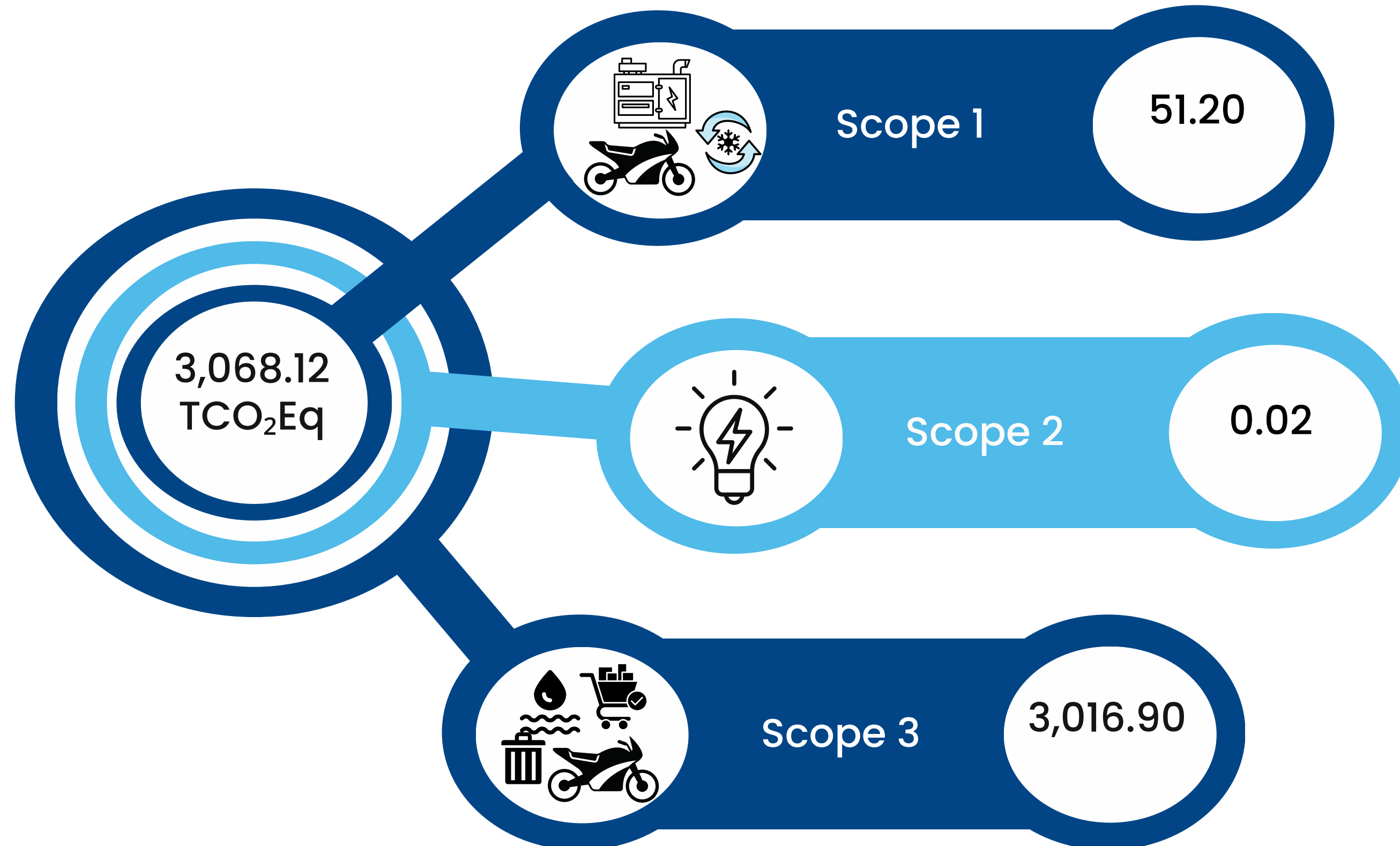
# Total Group Level GHG Emission TCO<sub>2</sub>Eq

Reporting Period  
Year 2024



# Total Group Level GHG Emission TCO<sub>2</sub>Eq

Reporting Period  
Year 2025 (Jan to Nov)







Growlity, Inc. USA

+ 1 (718) 690 9291

[www.growlity.com](http://www.growlity.com)

[contact@growlity.com](mailto:contact@growlity.com)

575, FIFTH AVENUE, NEW YORK,  
NY 10017, USA

Growlity Private Limited, India

+ 91 960 131 0999

[www.growlity.com](http://www.growlity.com)

[contact@growlity.com](mailto:contact@growlity.com)

316, RAJHANS MONTESSA, AIRPORT ROAD,  
SURAT – 395007. INDIA

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