

GHG EMISSION REPORT

BIRLA JUTE MILLS

Reporting Period

- FY 2022-23 (Apr 2022 to Mar 2023)
- FY 2023-24 (Apr 2023 to Mar 2024)
- FY 2024-25 (Apr 2024 to Mar 2025)
- FY 2025-26 (Apr 2025 to Dec 2025)





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



Department
for Environment
Food & Rural Affairs

ISO 14064 and the GHG Protocol



Developing Accurate GHG Inventories

We consistently monitor and document greenhouse gas (GHG) emissions across all areas of our operations, ensuring that all relevant sources are accounted for to enable accurate and comprehensive reporting.

Implementing Emission Reduction Strategies

We identify and implement strategies to reduce greenhouse gas emissions while continuously monitoring and improving our processes to minimize our GHG footprint.



Transparent Reporting

We prepare comprehensive reports on our greenhouse gas emissions and reduction initiatives in compliance with ISO 14064 and GHG Protocol standards.

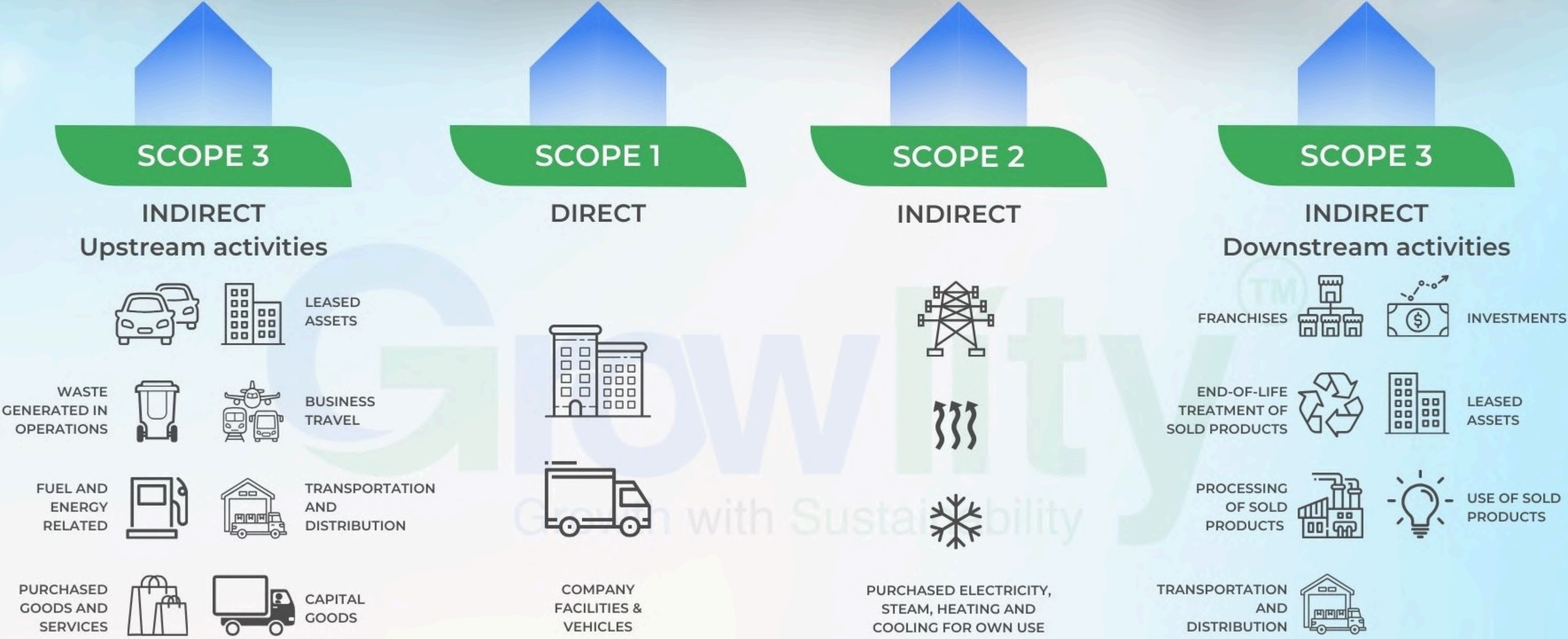
Third-Party Verification

We engage independent third-party experts to verify our greenhouse gas (GHG) data, demonstrating our commitment to accuracy, transparency, and accountability.



GHG

PFCS CO₂ N₂O HFCS CH₄ SF₆



Reference used for study: ISO 14064 & Green House Gas Protocol



Location Covered

Birla Jute Mills

Birlapur, 24 Parganas (S),
West Bengal 743 318 Kolkata,
West Bengal India

About GHG Emission



Scope 1

DIRECT GHG EMISSION

Emissions from organization-owned sources and on-site combustion are crucial for evaluating and reducing the entity's GHG footprint for the period.



Scope 2

INDIRECT GHG EMISSION

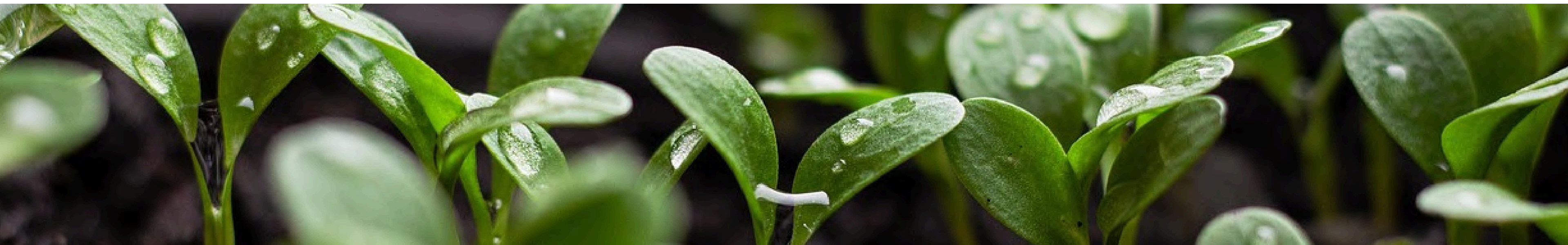
Indirect emissions from purchased energy are essential for evaluating and reducing an organization's environmental impact for the given period.



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



Stationary Combustion

Consumption of Liquid fuel – Diesel in generator & Forklift

➤ FY 2022-23	➤ FY 2023-24	➤ FY 2024-25	➤ FY 2025-26
9,759	12,777	8,207	7,310
24.82	32.10	20.76	18.79



Consumption
in litres



GHG Emission
TCO₂Eq

Stationary Combustion

Consumption of Biomass - Grass/straw in Boiler

➤ FY 2022-23	➤ FY 2023-24	➤ FY 2024-25	➤ FY 2025-26
4,213	3,780	4,326	2,956
233.32	214.32	226.11	139.96



Consumption
in tonnes



GHG Emission
TCO₂Eq

Mobile Combustion

Consumption of Diesel and Petrol in Car, HGVs, Vans & Motorbike

➤ FY 2022-23

2,64,425

94.38

➤ FY 2023-24

3,06,998

105.63

➤ FY 2024-25

2,24,938

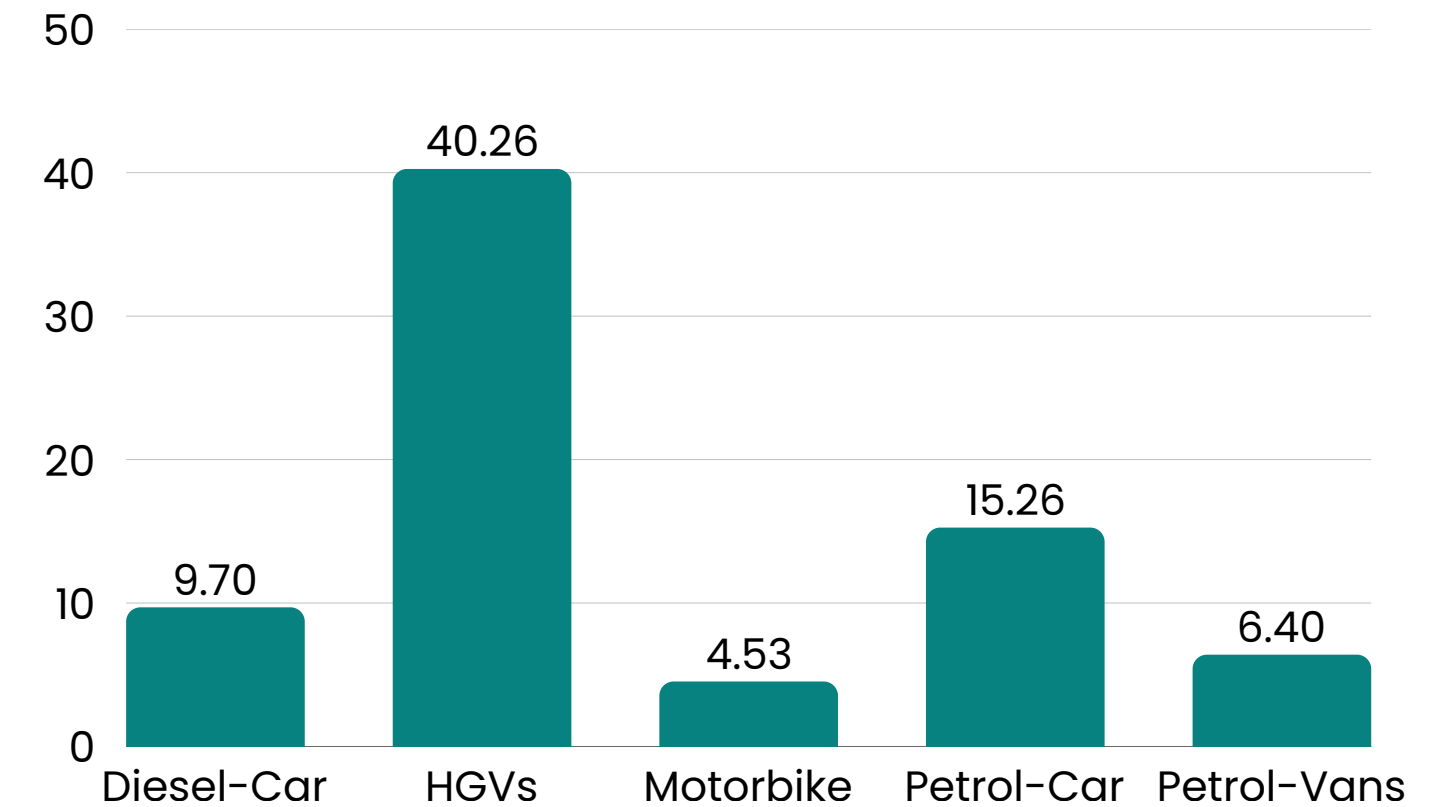
76.16

➤ FY 2025-26

1,93,147

69.40

GHG Emission TCO₂Eq for FY 2024-25



km travelled



GHG Emission
TCO₂Eq

Fugitive Emission

Refilling of Refrigerants – Carbon dioxide, R410A, HFC-134a & HFC-32

➤ FY 2022-23

153.70
264.64

➤ FY 2023-24

162.73
241.78

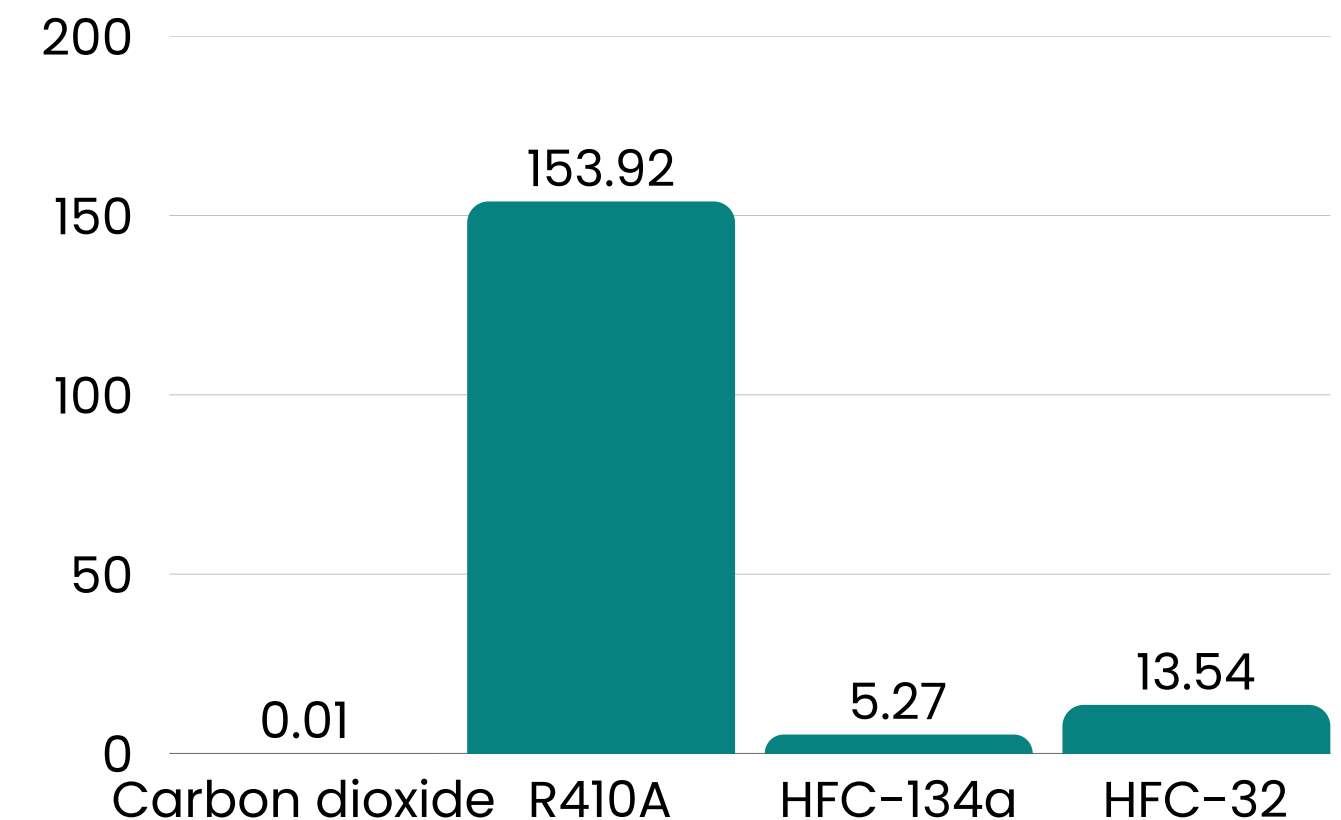
➤ FY 2024-25

116.05
172.74

➤ FY 2025-26

119.00
173.46

GHG Emission TCO₂Eq for FY 2024-25



Consumption
in kg



GHG Emission
TCO₂Eq



Summary of Scope 1

GHG Emission TCO₂Eq



FY 2022-23



FY 2023-24



FY 2024-25



FY 2025-26

617.16

593.83

495.77

401.62

Scope 2 Indirect GHG Emission



Purchased Electricity

➤	FY 2022-23	➤	FY 2023-24
	1,79,57,088		1,70,42,142
	16,770.45		14,650.48
➤	FY 2024-25	➤	FY 2025-26
	1,70,69,720		1,43,76,380
	12,387.79		13,683.73

 **Consumption
in kWh**

 **GHG Emission
TCO₂Eq**

Scope 3 Other Indirect GHG Emission



CATEGORIES OF SCOPE 3

- Employee Commute
- Food Consumption
- Purchased Goods
- Transmission & Distribution Loss
- Upstream Activities
- Downstream Activities

- Waste Disposal
- Water Supply
- Water Treatment
- Business Travel
- Hotel Stay

Employee Commute

Commute by Car & Motorbike

➤ **FY 2022-23**

10,67,218

123.52

➤ **FY 2024-25**

10,59,320

122.72

➤ **FY 2023-24**

10,60,139

122.78

➤ **FY 2025-26**

7,31,342

84.85

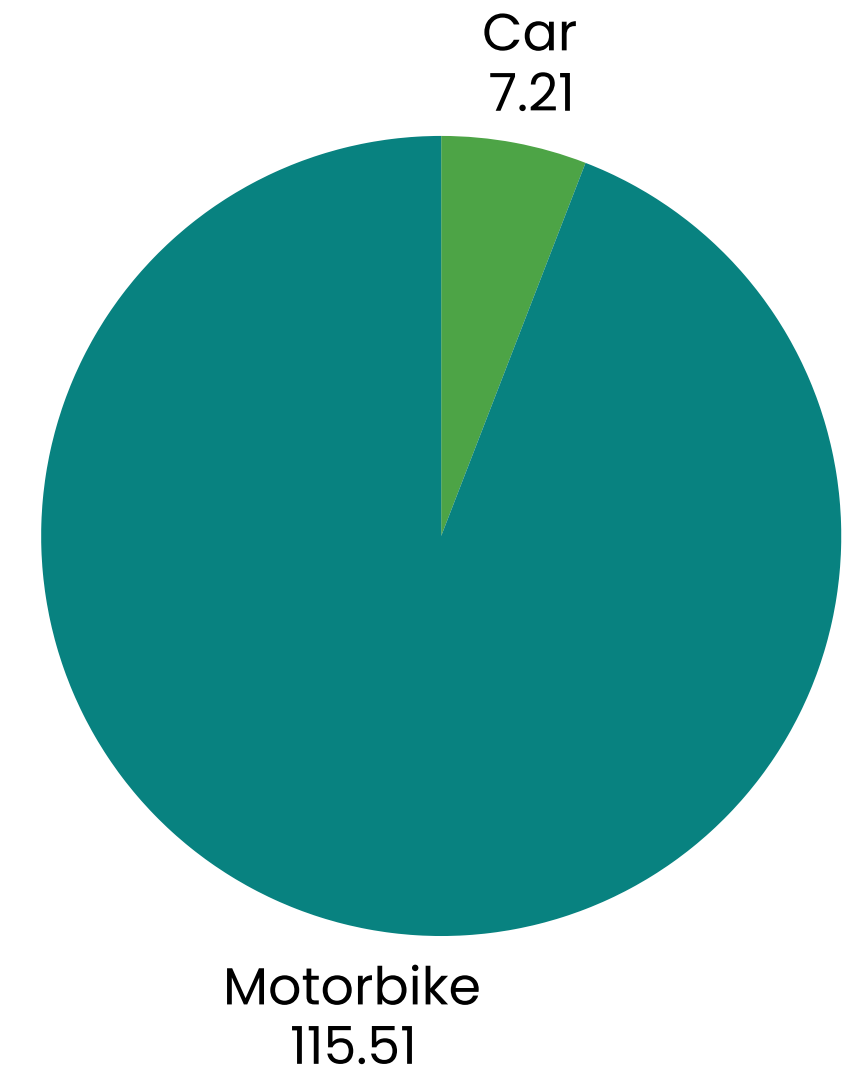


km travelled



**GHG Emission
TCO₂Eq**

GHG Emission TCO₂Eq for FY 2024-25



Food Consumption

○ **FY 2022-23** **71,423.00**

79.53

○ **FY 2023-24** **77,556.90**

91.08

○ **FY 2024-25** **77,415.60**

91.59

○ **FY 2025-26** **58,017.40**

66.99

 **Number of dishes
consumed**

 **GHG Emission
TCO₂Eq**

Purchased Goods

Purchased Construction - Metals and Plastics

○ **FY 2022-23** **131.34**
_____ **225.17**

○ **FY 2023-24** **38.04**
_____ **61.47**

○ **FY 2024-25** **74.61**
_____ **113.41**

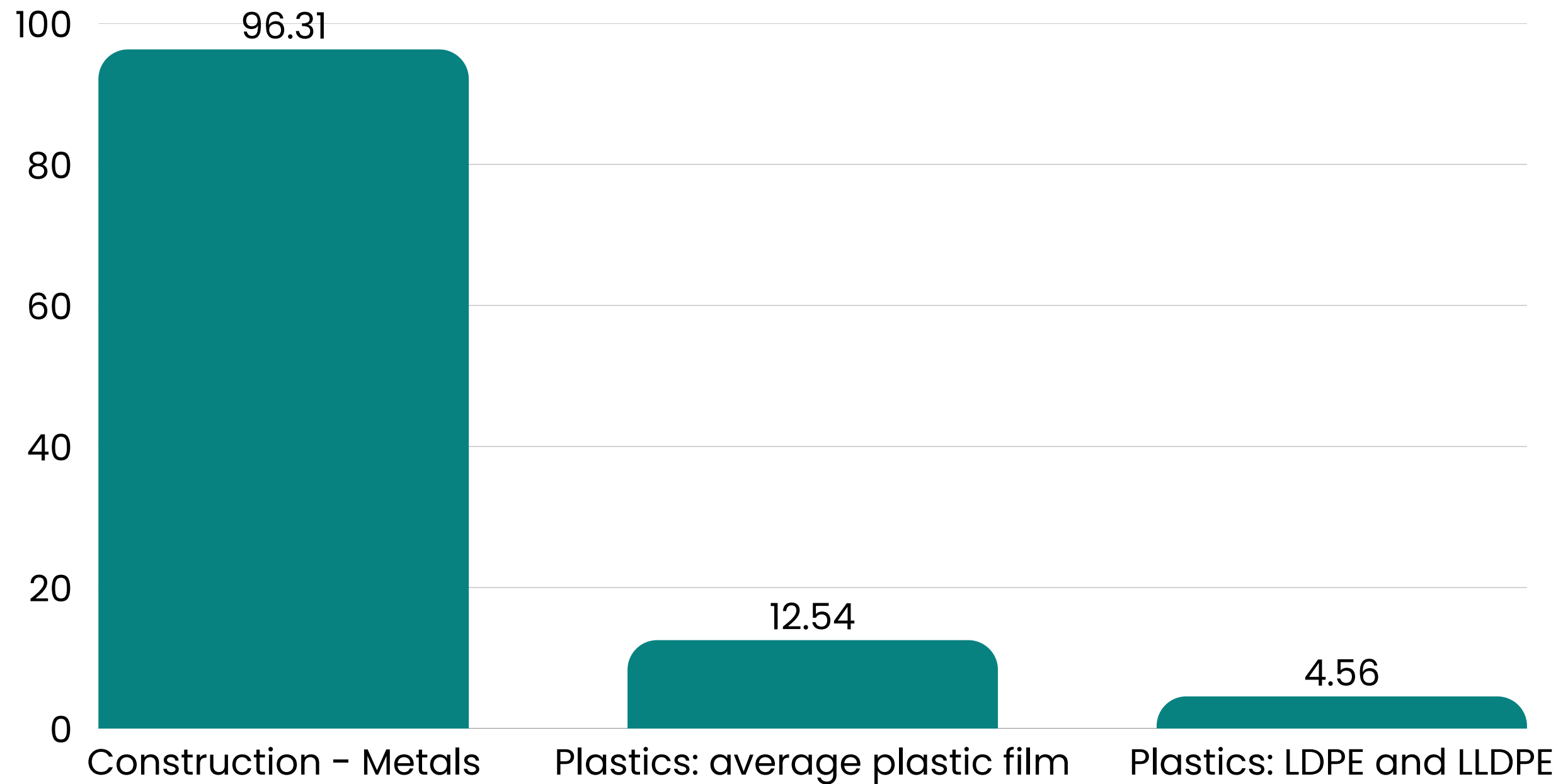
○ **FY 2025-26** **60.77**
_____ **92.51**

 **Consumption
in tonnes**

 **GHG Emission
TCO₂Eq**

Purchased Goods

GHG Emissions TCO₂Eq for FY 2024-25



Electricity Transmission & Distribution Loss

➤	FY 2022-23	➤	FY 2023-24
	1,79,57,088		1,70,42,142
	337.59		320.39
➤	FY 2024-25	➤	FY 2025-26
	1,70,69,720		1,43,76,380
	320.91		270.28

 **Consumption
in kWh**

 **GHG Emission
TCO₂Eq**

Upstream Activities

Transportation of Raw Materials by Heavy Goods Vehicles



km travelled



GHG Emission
TCO₂Eq

Downstream Activities

Transportation of Finishing goods by Cargo ship

FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26
30,66,756	61,33,512	1,19,60,348	1,68,64,091
665.00	1,330.00	2,593.50	3,656.84



km travelled



GHG Emission
TCO₂Eq

Waste Disposal

Generation of Hazardous & Non-hazardous waste

»» FY 2022-23 »» FY 2023-24 »» FY 2024-25 »» FY 2025-26

198.54

1.58

193.96

1.64

207.38

1.19

171.99

0.81



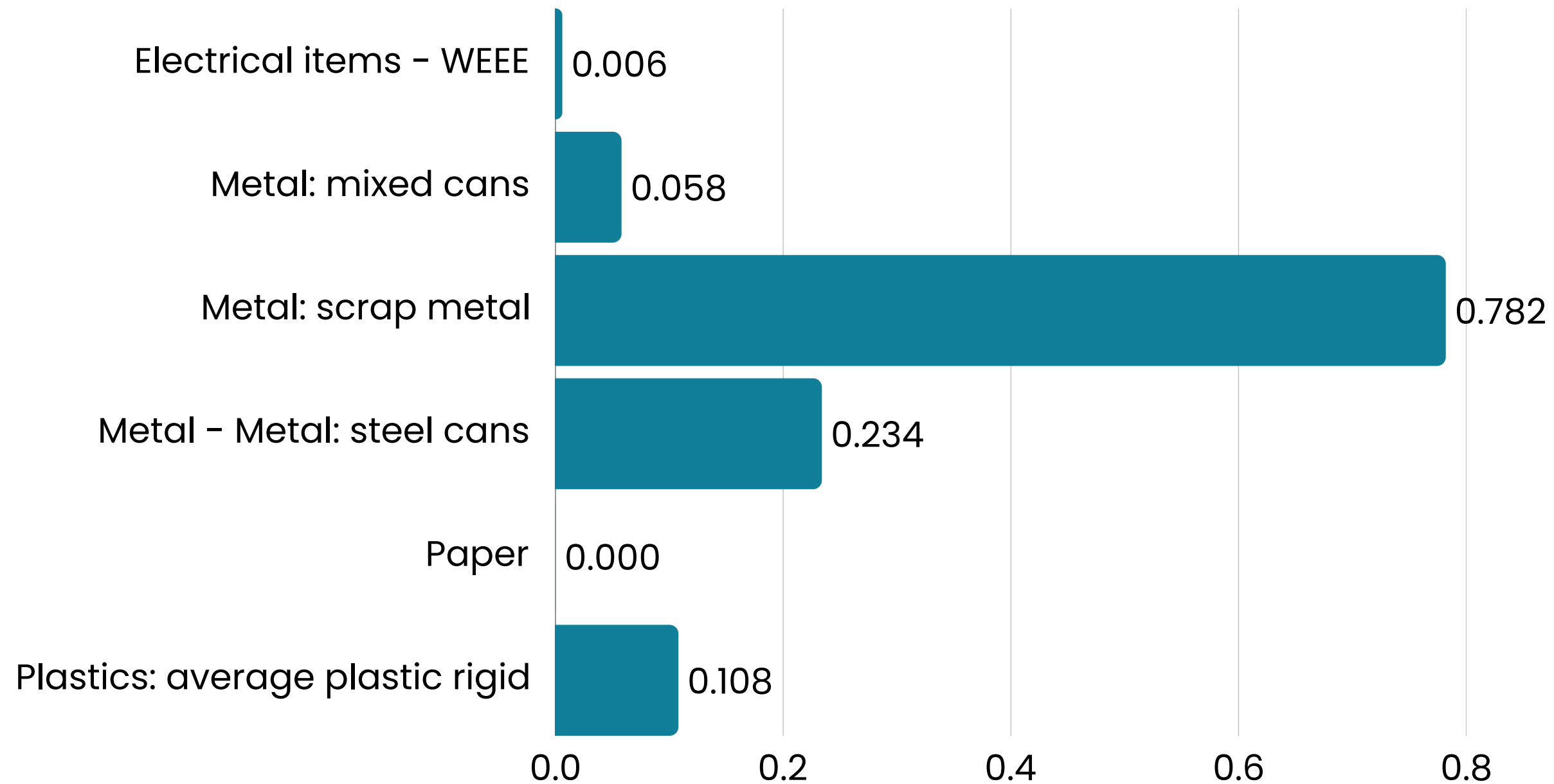
Generation in
tonne



GHG Emission
TCO₂Eq

Waste Disposal

GHG Emissions TCO₂Eq for FY 2024-25



Water Supply

Consumption of water

»» FY 2022-23

2,40,920

37.55

»» FY 2023-24

2,33,736

39.90

»» FY 2024-25

2,39,913

39.02

»» FY 2025-26

1,83,887

35.18



Total Cubic
meters



GHG Emission
TCO₂Eq

Water Treatment

»» FY 2022-23

10,792

2.75

»» FY 2023-24

10,859

2.15

»» FY 2024-25

11,081

2.01

»» FY 2025-26

7,782

1.33



Total Cubic
meters



GHG Emission
TCO₂Eq

Business Travel

Air travel by Flights

»» FY 2022-23

39,362

6.87

»» FY 2023-24

38,665

8.08

»» FY 2024-25

32,592

6.19

»» FY 2025-26

24,621

3.96



km travelled



GHG Emission
TCO₂Eq

Business Travel

Land travel by Car & Rail

»» FY 2022-23

8,506

0.47

»» FY 2023-24

6,537

0.40

»» FY 2024-25

5,272

0.37

»» FY 2025-26

1,278

0.05



km travelled



GHG Emission
TCO₂Eq

Hotel Stay

»» FY 2022-23

46

4.12

»» FY 2023-24

29

2.43

»» FY 2024-25

73

6.11

»» FY 2025-26

Data Collection in
Progress



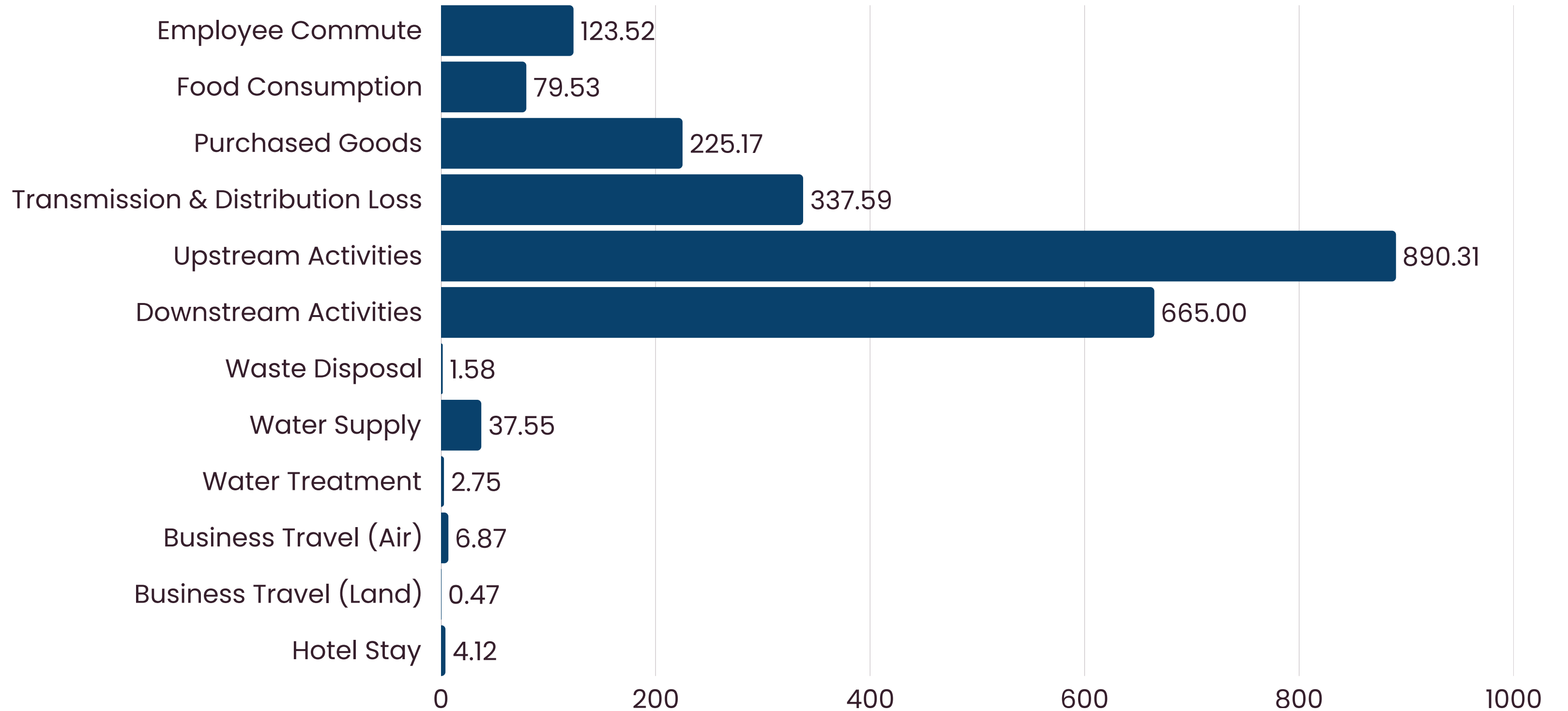
Total number of
nights stayed



GHG Emission
TCO₂Eq

Summary of Scope 3

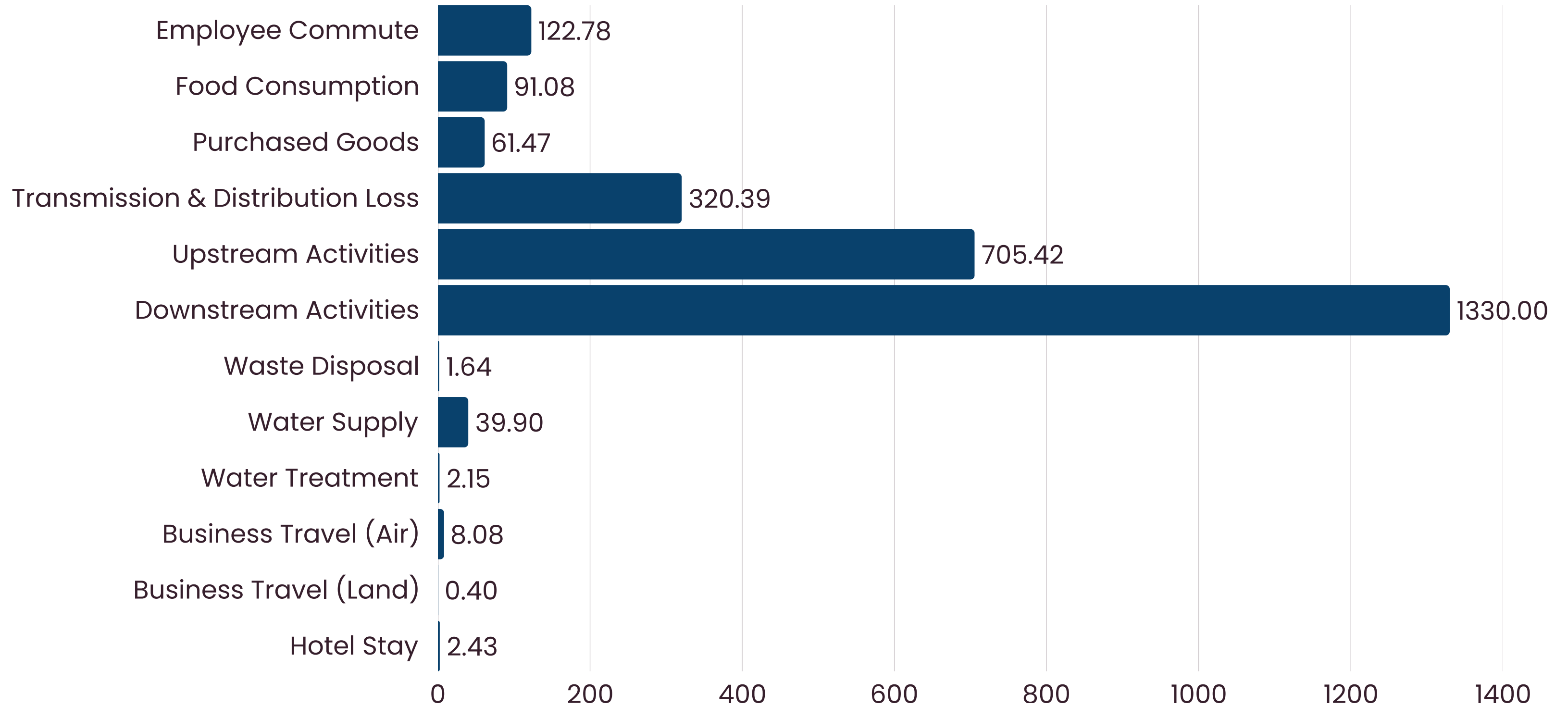
Reporting Period
FY 2022-23



Total GHG Emission 2,374.46 TCO₂Eq

Summary of Scope 3

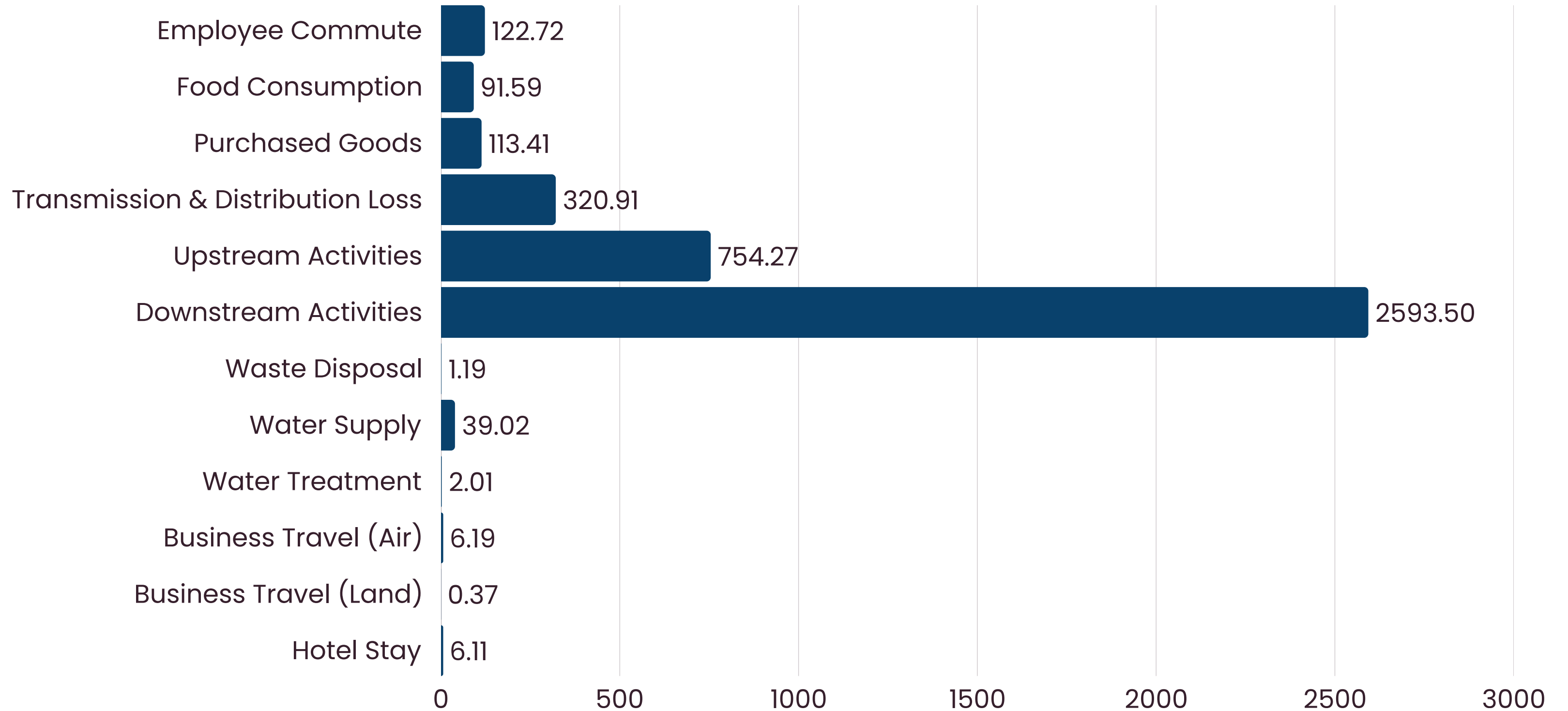
Reporting Period
FY 2023-24



Total GHG Emission 2,685.74 TCO₂Eq

Summary of Scope 3

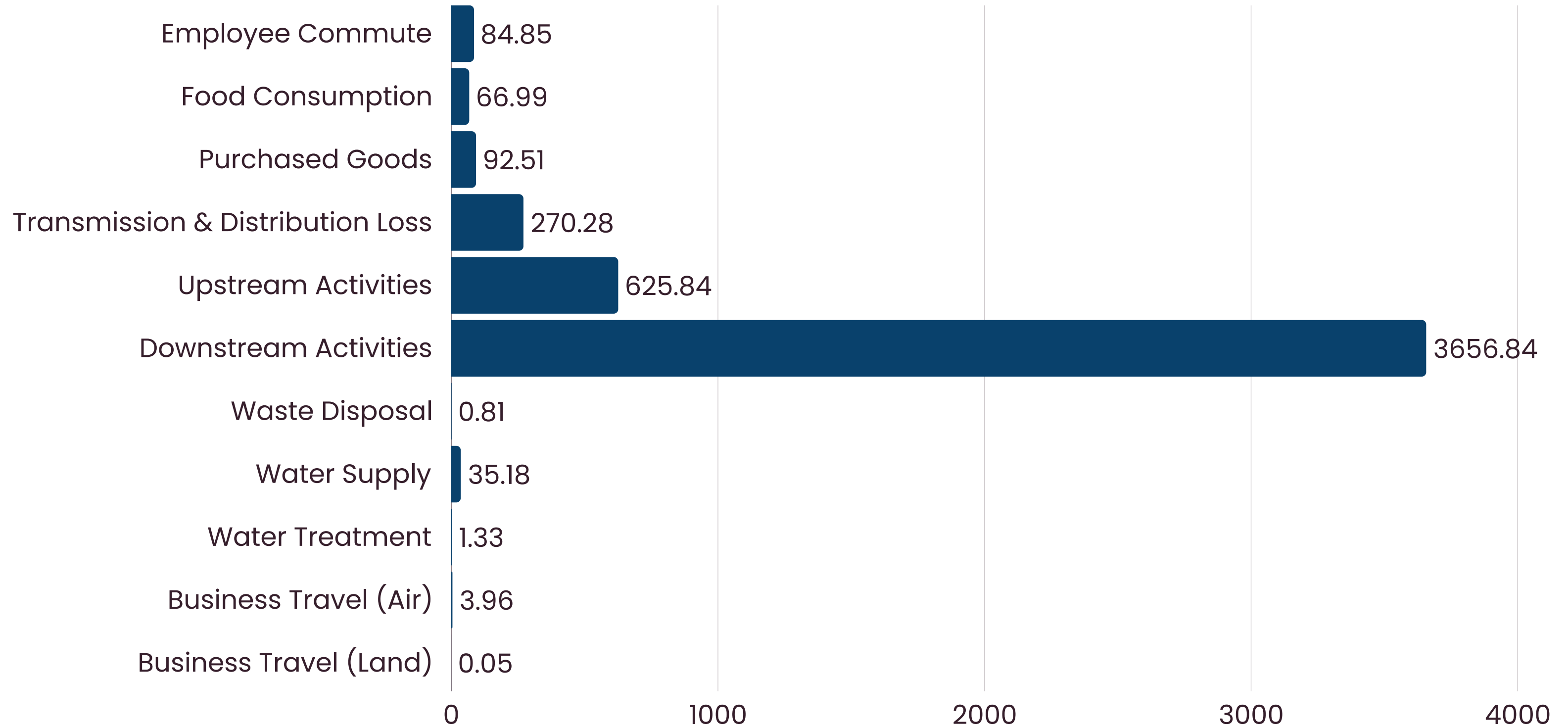
Reporting Period
FY 2024-25



Total GHG Emission 4,051.29 TCO₂Eq

Summary of Scope 3

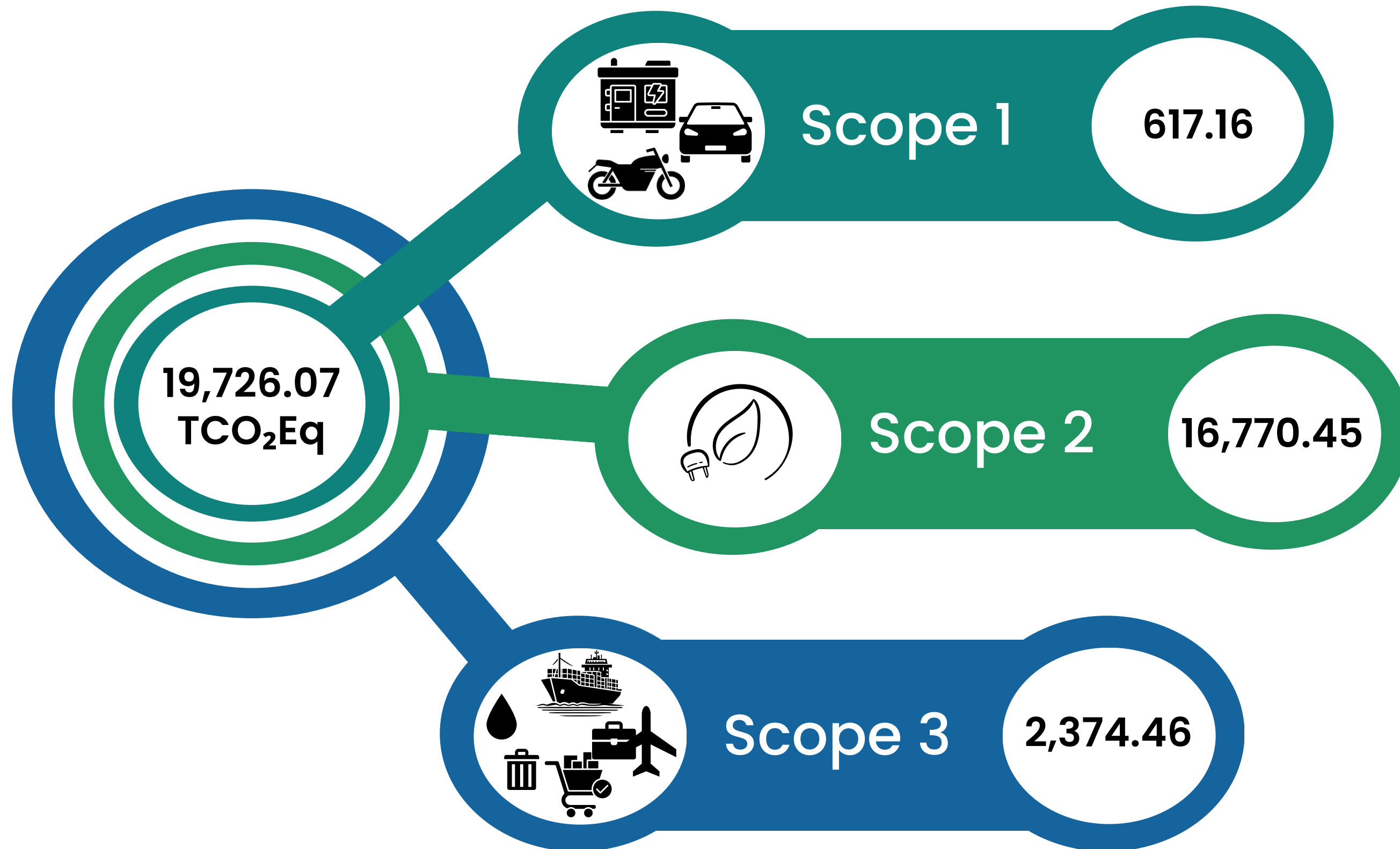
Reporting Period
FY 2025-26
(Apr 2025 to Dec 2025)



Total GHG Emission 4,838.64 TCO₂Eq

Total GHG Emission in TCO₂Eq

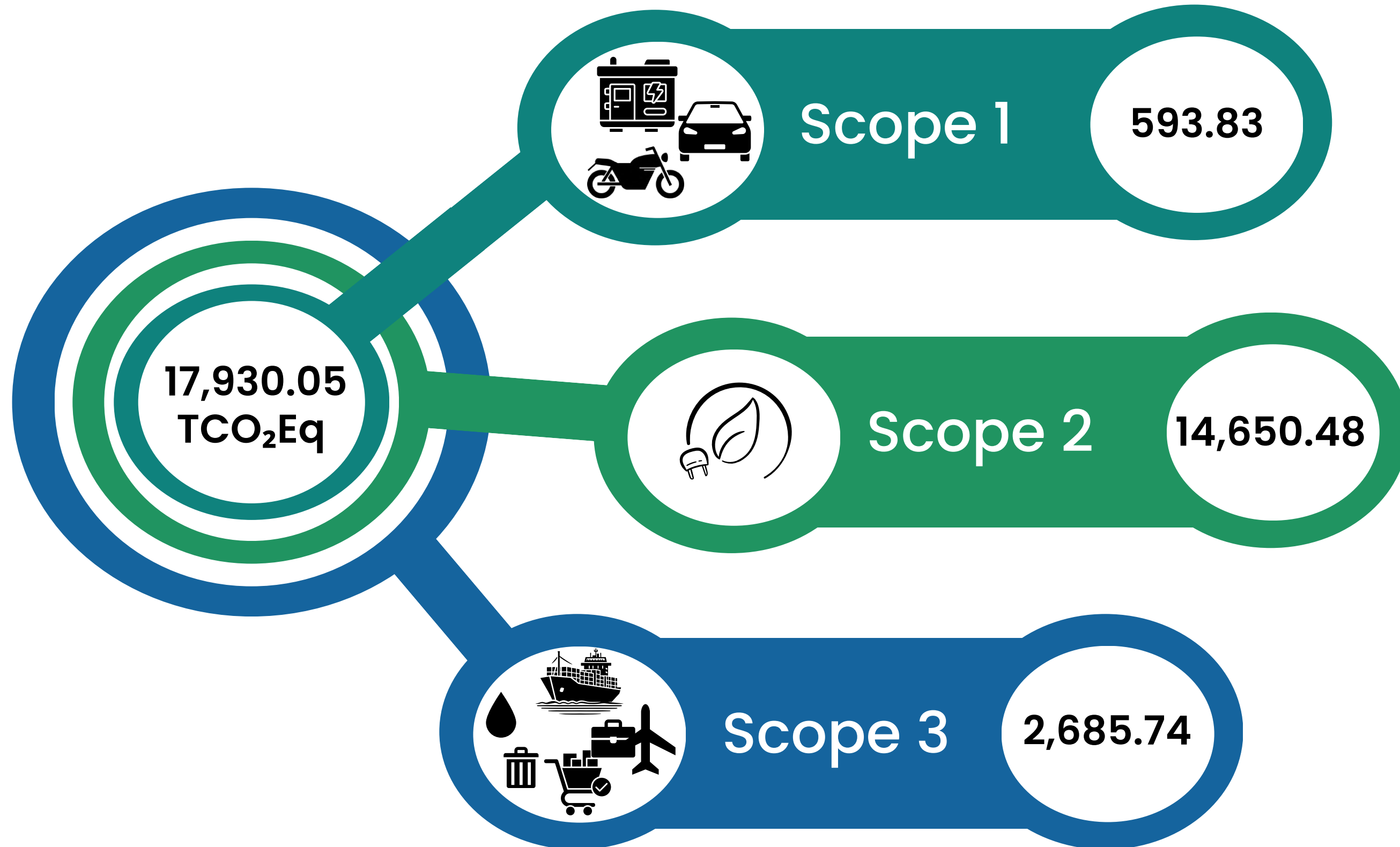
Reporting Period
FY 2022-23



Total GHG Emission in TCO₂Eq

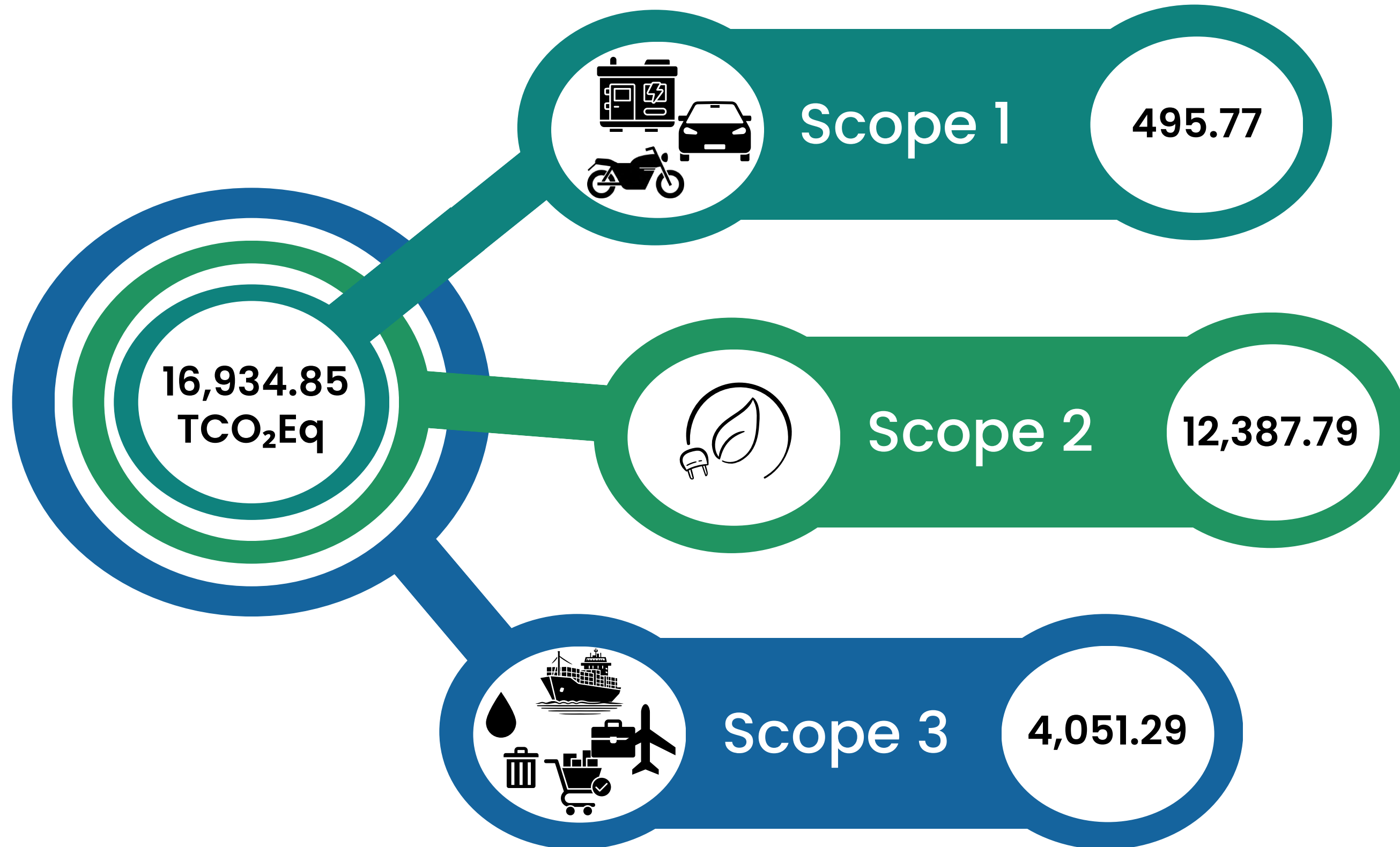
Reporting Period

FY 2023-24



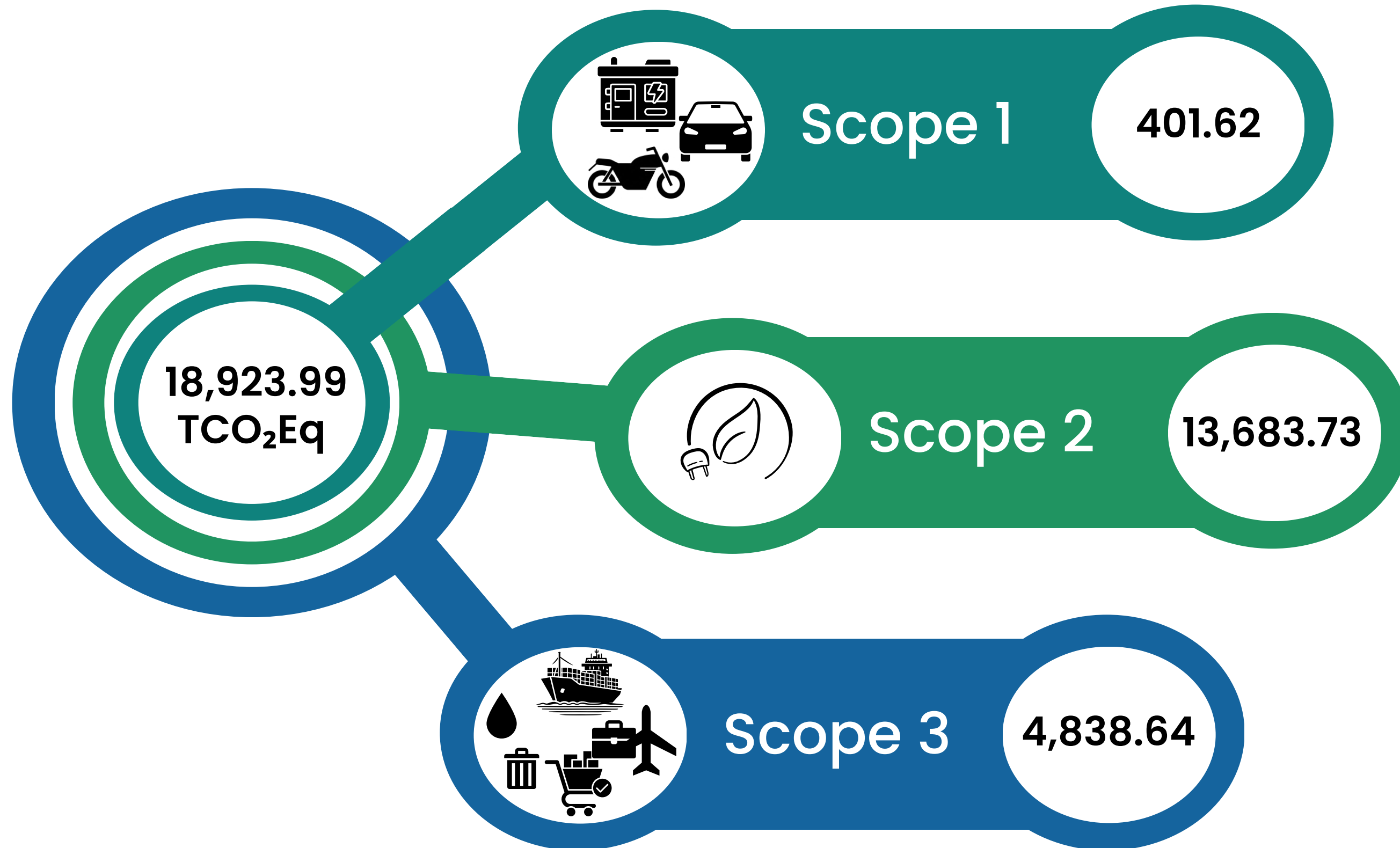
Total GHG Emission in TCO₂Eq


Reporting Period
FY 2024-25



Total GHG Emission in TCO₂Eq

Reporting Period
FY 2025-26
(Apr 2025 to Dec 2025)




**GHG Emission Intensity
Scope 1 + Scope 2 (TCO₂Eq/Revenue(Cr.))**

40.209	37.048	34.864	37.525
FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26


**GHG Emission Intensity
Scope 1 + Scope 2 (TCO₂Eq/Production(MT))**

0.511	0.446	0.398	0.497
FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26



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