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GHG Emission Report

Astec LifeSciences Limited

Reporting Period:

FY 2022-23

FY 2023-24

FY 2024-25

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GHG Emission Accordance with ISO 14064 and the GHG Protocol

- ☑ ISO 14064-1
- ☑ IEA CO2 Emissions from Fuel Combustion
- ☑ The Greenhouse Gas Protocol: Scope 2 Guidance
- ☑ The Greenhouse Gas Protocol: Corporate Value Chain (Scope 3) Standard
- ☑ 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories
- ☑ The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
- ☑ Defra Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance, 2019

ISO 14064

GREENHOUSE GAS PROTOCOL

ipcc INTERGOVERNMENTAL PANEL ON climate change

Department for Environment Food & Rural Affairs

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ISO 14064 and GHG Protocol

1.Developing Accurate GHG Inventories

We meticulously measure and document our GHG emissions across all operations, ensuring that our GHG inventory encompasses all relevant emission sources, providing comprehensive coverage and precision in 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 carbon footprint and enhance sustainability.

3. Transparent Reporting

We provide detailed reports on our GHG emissions and reduction initiatives, ensuring clarity and accountability. Our reporting practices adhere strictly to ISO 14064 and the GHG Protocol standards, demonstrating our commitment to transparency.

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 reinforces our commitment to transparency and accountability.

Location Covered

Site	Address
Astec LifeSciences Limited	1. Plot Nos. B-16, B-17, B-18 & B-21, MIDC Mahad, Birwadi Industrial Area, Taluka Mahad, District Raigad – 402 302, Maharashtra 2. Plot No. K-2/1/1, Additional MIDC Mahad, Village Kalinj, Taluka Mahad, District Raigad – 402 302, Maharashtra 3. Plot No. K-2/1/2, Additional MIDC Mahad, Village Kalinj, Taluka Mahad, District Raigad – 402 302, Maharashtra 4. Plot No. K-2/2, K-2/3/1, Additional MIDC Mahad, Village Kalinj, Taluka Mahad, District Raigad – 402 302, Maharashtra
Research & Development Centre	1. Plot No. B-23, T.T.C., Pipeline Road, T.T.C. Industrial Area, Airoli, Navi Mumbai – 400 708, Maharashtra
Astec LifeSciences Limited (Corporate Office)	Godrej One, 3rd Floor, Pirojshanagar, Eastern Express Highway, Vikhroli (East), Mumbai – 400079, Maharashtra

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Introduction of GHG Emission

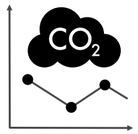
Scope 1	Scope 2	Scope 3

Direct Emission

Organization - owned emissions resulting from onsite combustion are critical for assessing and reducing the entity's GHG footprint during period.

Indirect Emission

Indirect emissions from purchased energy, critical for evaluating and mitigating an organization's environmental impact, for period.



Other Indirect Emission

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

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Scope 1

Direct Emission

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STATIONARY COMBUSTION

Consumption of Liquid fuels - Diesel

FY 2022-23	FY 2023-24	FY 2024-25
170.53	78.47	124.85
134.09	91.80	344.20

Consumption in Cubic meter

GHG Emission TCO_2Eq

STATIONARY COMBUSTION

Consumption of Solid fuel - Coal

FY 2022-23	FY 2023-24	FY 2024-25
11,389.64	9,403.19	5,904.48
23,175	18,981	13,100

Consumption in tonnes

GHG Emission TCO_2Eq

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SUMMARY OF SCOPE 1

GHG Emission TCO_2Eq

FY 2022-23

23,309

FY 2023-24

19,072

FY 2024-25

13,444

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Scope 2
Indirect GHG Emission

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PURCHASED ELECTRICITY

Grid Consumed electricity

FY 2022-23	FY 2023-24	FY 2024-25
7,26,89,044	7,71,86,484	6,57,66,348
15,948	16,935	13,429

Consumption in MJ

GHG Emission TCO_2Eq

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Scope 3
Other Indirect Emission

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SCOPE 3 CATEGORIES

Purchased Goods and Services

Upstream Transportation and Distribution

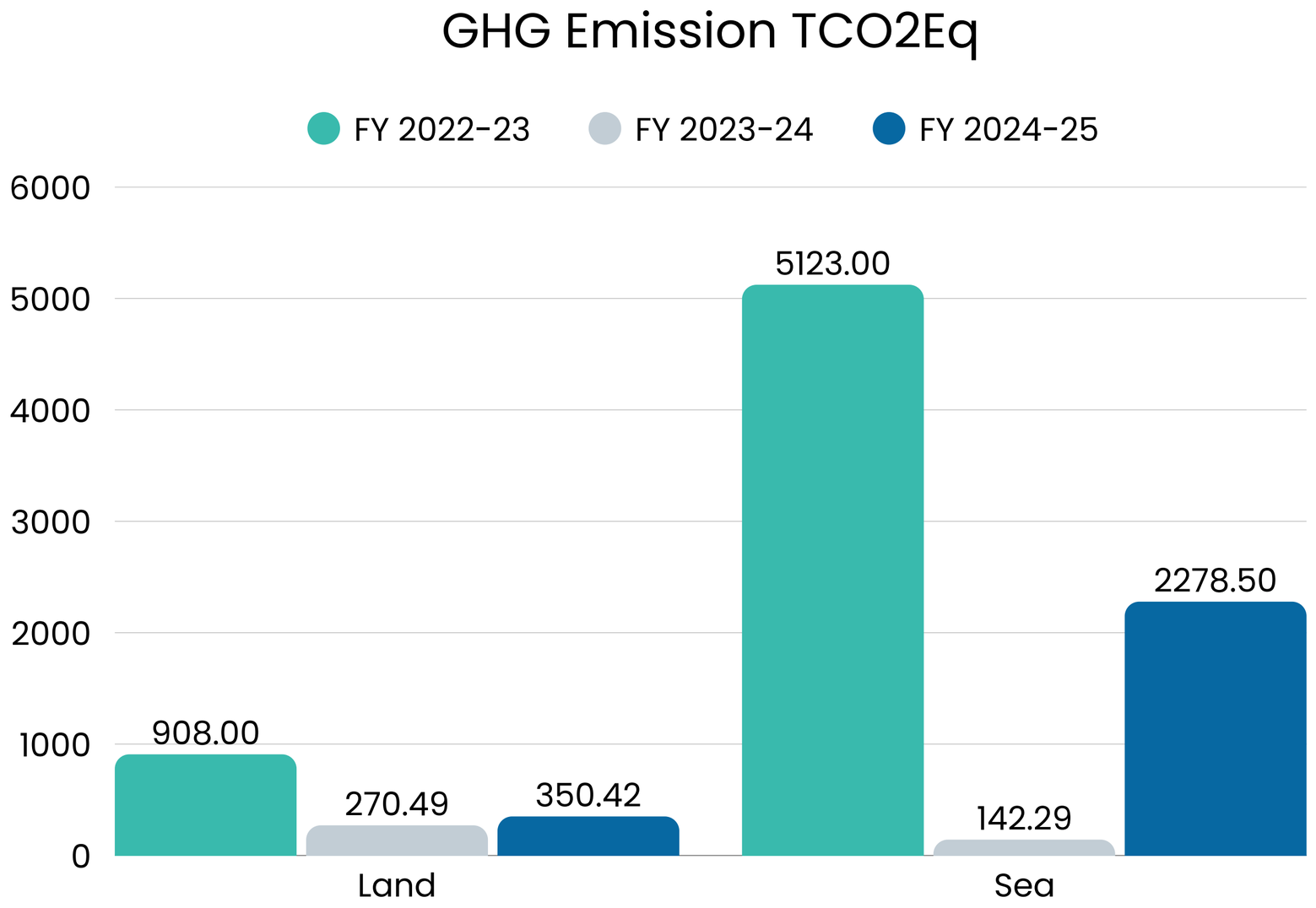
Downstream Transportation and Distribution

PURCHASED GOODS AND SERVICES

Pursuing of Raw materials & Packaging materials

	FY 2022-23	FY 2023-24	FY 2024-25
Consumption in tonne	19,270.29	12,529.04	10,558.64
GHG Emission TCO_2Eq	65,730	33,944.31	74,945.78

UPSTREAM TRANSPORTATION AND DISTRIBUTION



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UPSTREAM TRANSPORTATION AND DISTRIBUTION

Transportation of Raw material & Packaging material by Sea & Land

FY 2022-23	FY 2023-24	FY 2024-25
44,73,999.19	15,97,823.04	5,82,072.99
6,031.00	412.78	2,628.92

Consumption in km

GHG Emission TCO_2Eq

DOWNSTREAM TRANSPORTATION AND DISTRIBUTION

Transportation of Finishing material material by Air

	FY 2022-23	FY 2023-24	FY 2024-25
Consumption in km	--	1,08,338	1,26,938
GHG Emission TCO_2Eq	--	695.40	409.86

DOWNSTREAM TRANSPORTATION AND DISTRIBUTION

Transportation of Finishing material material by Land

FY 2022-23	FY 2023-24	FY 2024-25
5,78,046	2,49,907	1,64,580
315.43	184.32	121.37

Consumption in km

GHG Emission TCO_2Eq

DOWNSTREAM TRANSPORTATION AND DISTRIBUTION

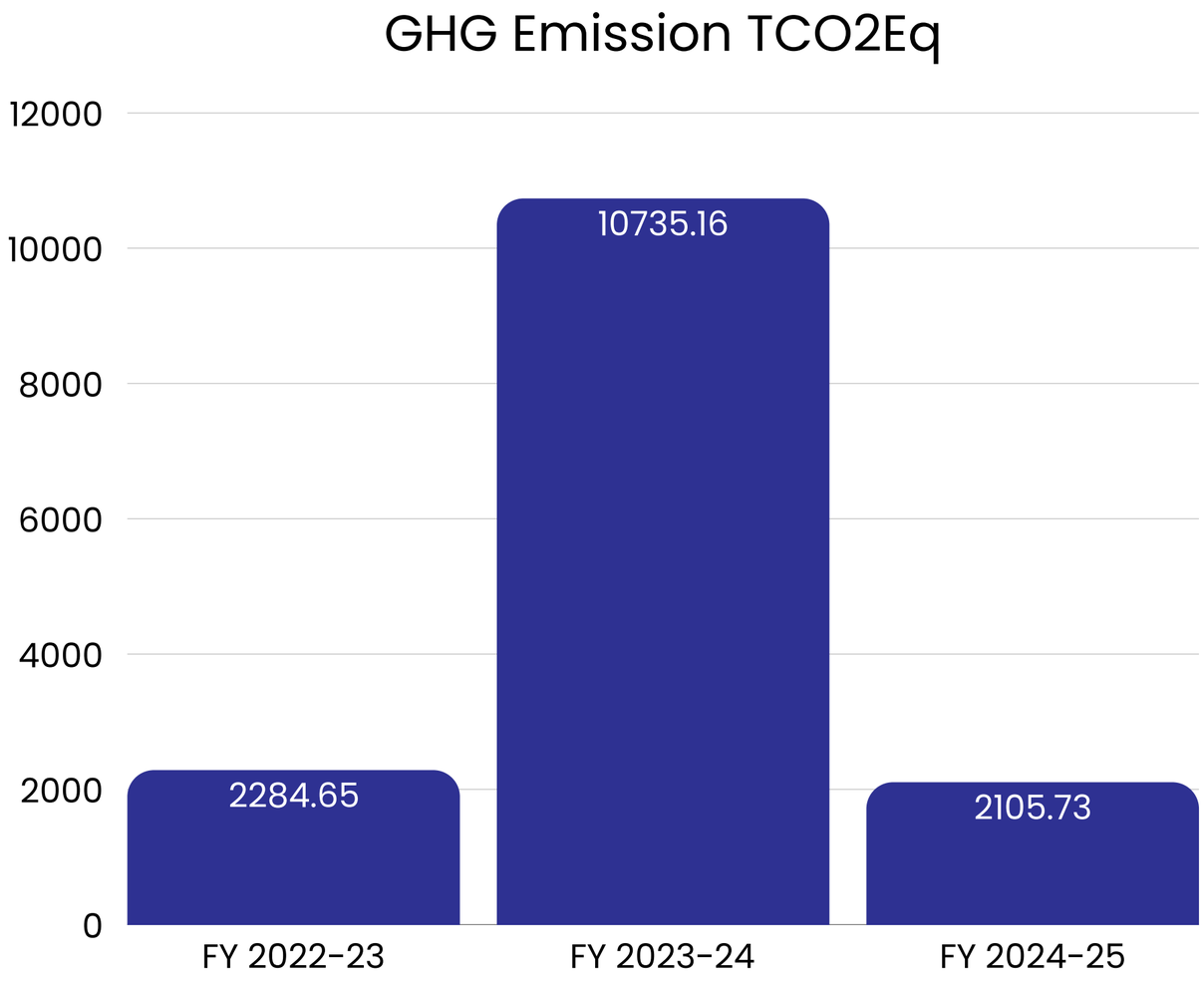
Transportation of Finishing material material by Sea

FY 2022-23	FY 2023-24	FY 2024-25
9,16,972	6,41,868	7,58,772
1,969.22	9,855.44	1,574.50

Consumption in nautical miles

GHG Emission TCO_2Eq

SUMMARY OF DOWNSTREAM TRANSPORTATION AND DISTRIBUTION



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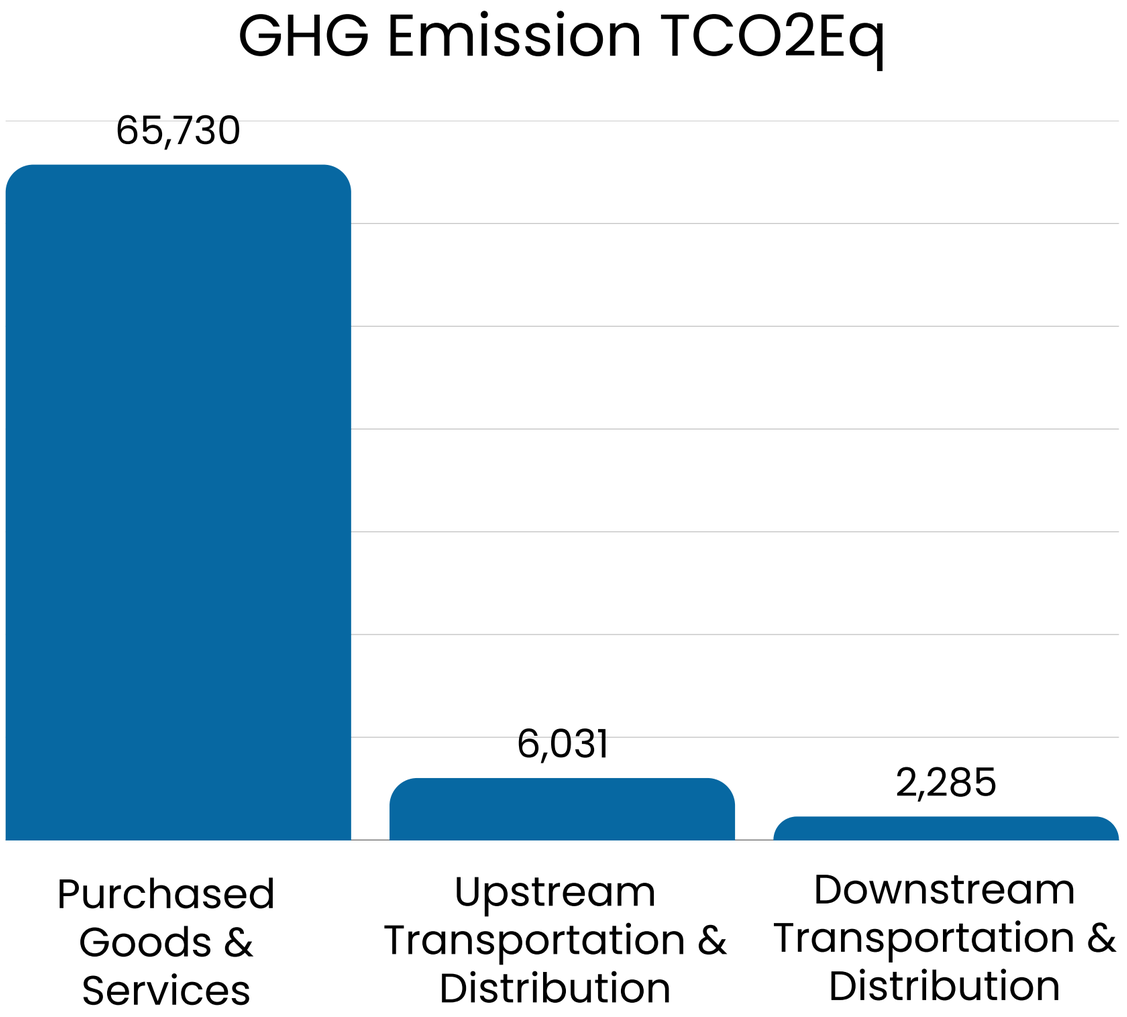
SUMMARY OF SCOPE 3

Reporting Period
FY 2022-23



Total GHG Emission 74,046 TCO_2Eq

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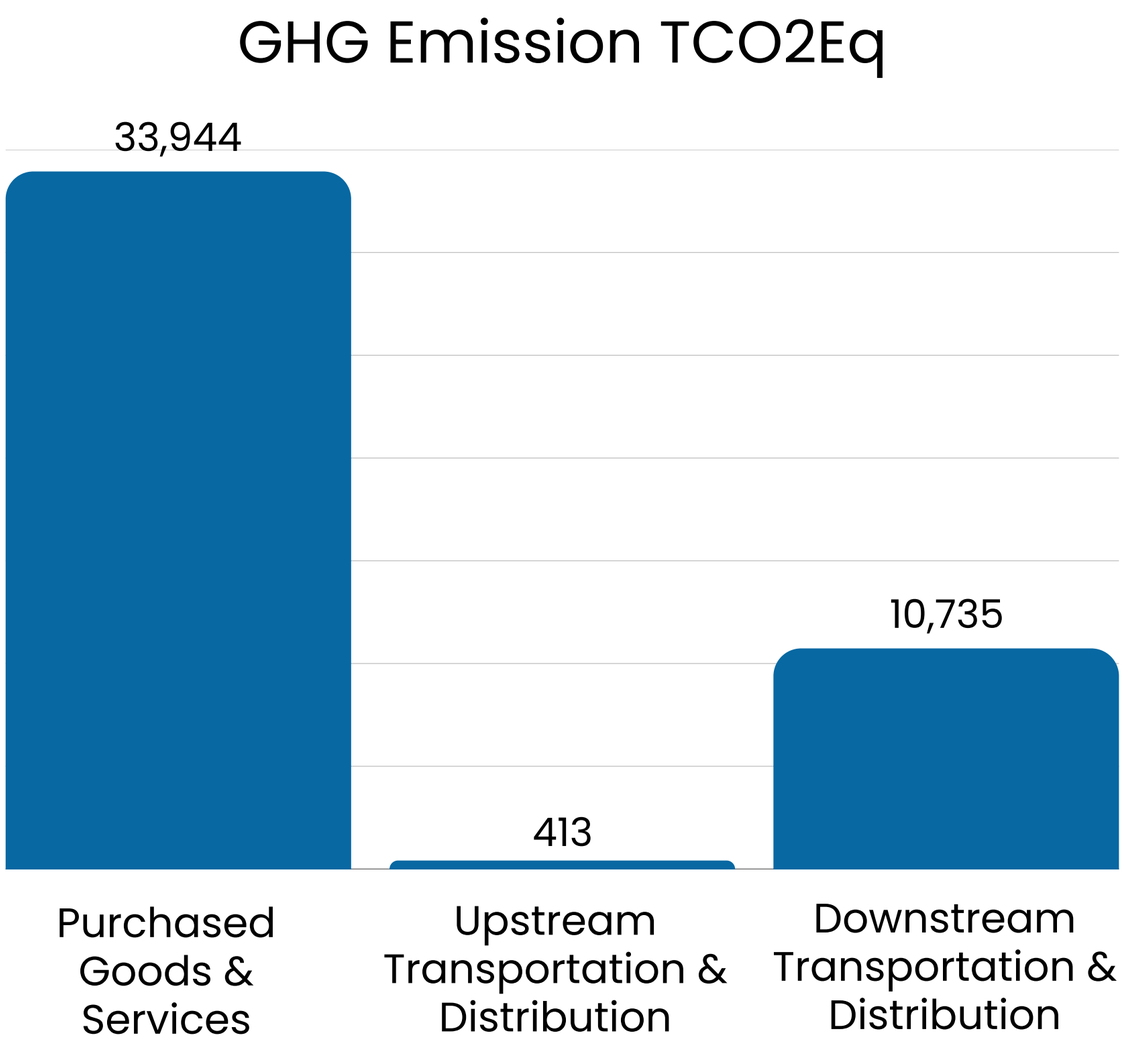
SUMMARY OF SCOPE 3

Reporting Period
FY 2023-24



Total GHG Emission 45,092 TCO_2Eq

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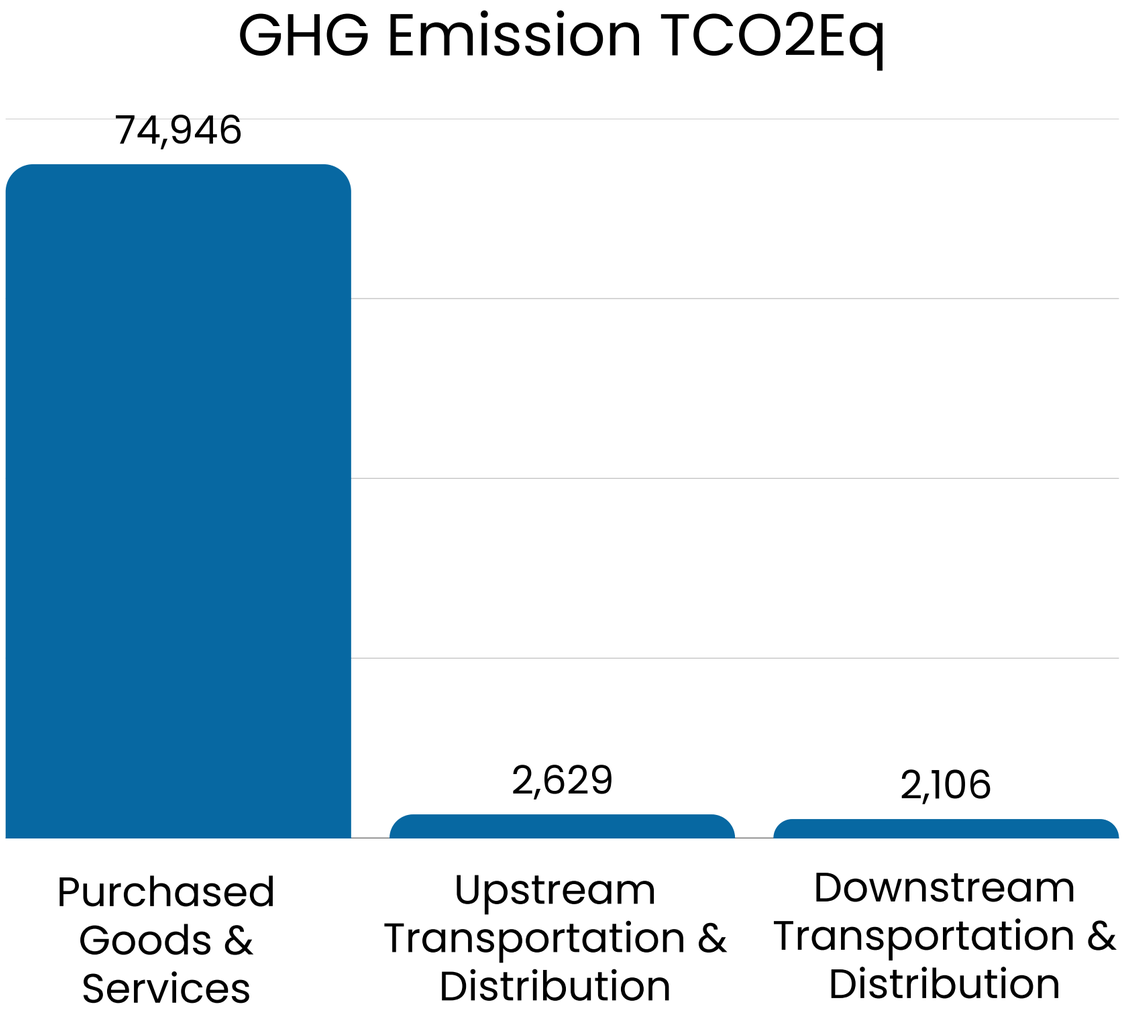
SUMMARY OF SCOPE 3

Reporting Period
FY 2024-25



Total GHG Emission 79,681 TCO_2Eq

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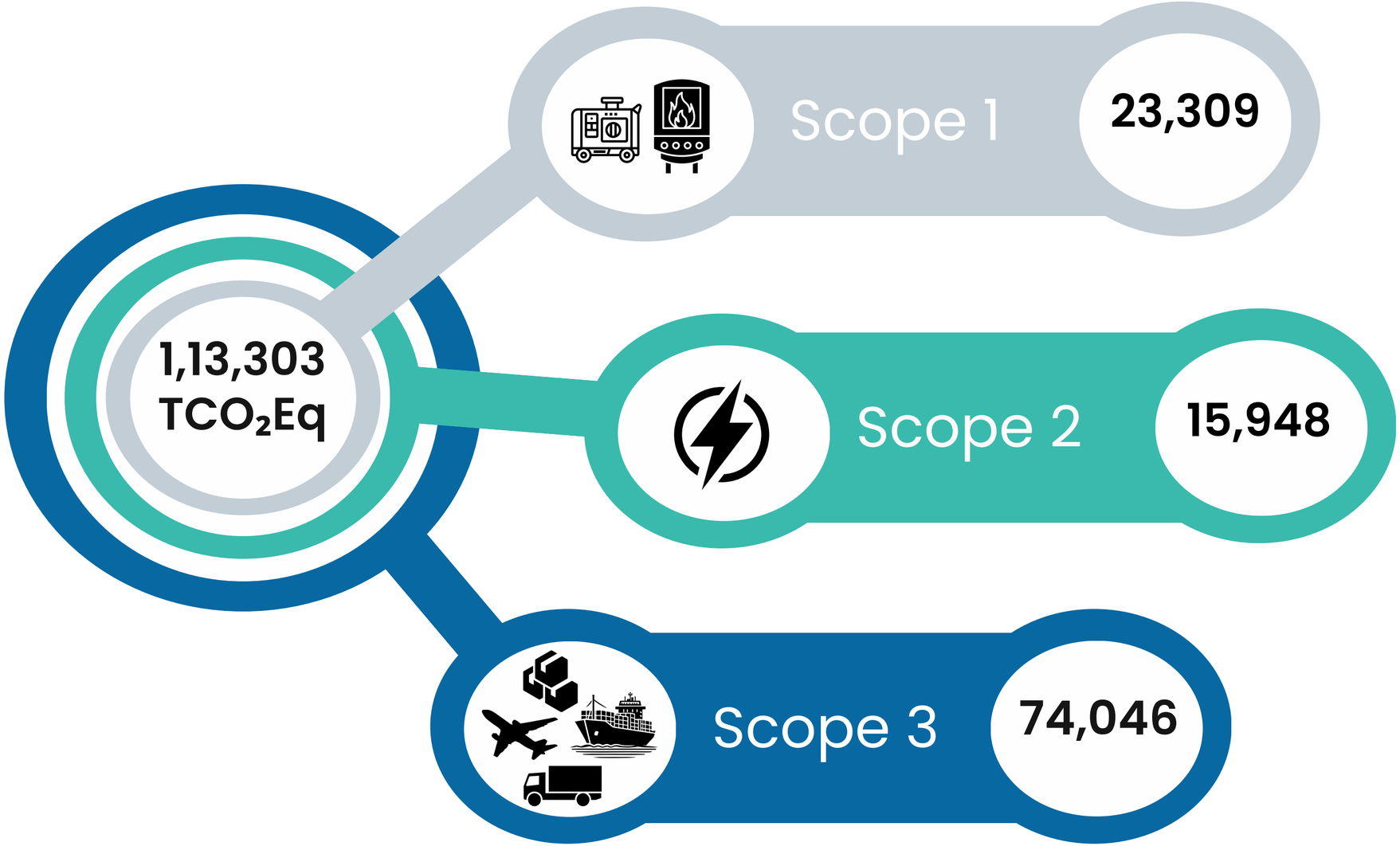
Total GHG Emission in TCO_2Eq

Reporting Period
FY 2022-23



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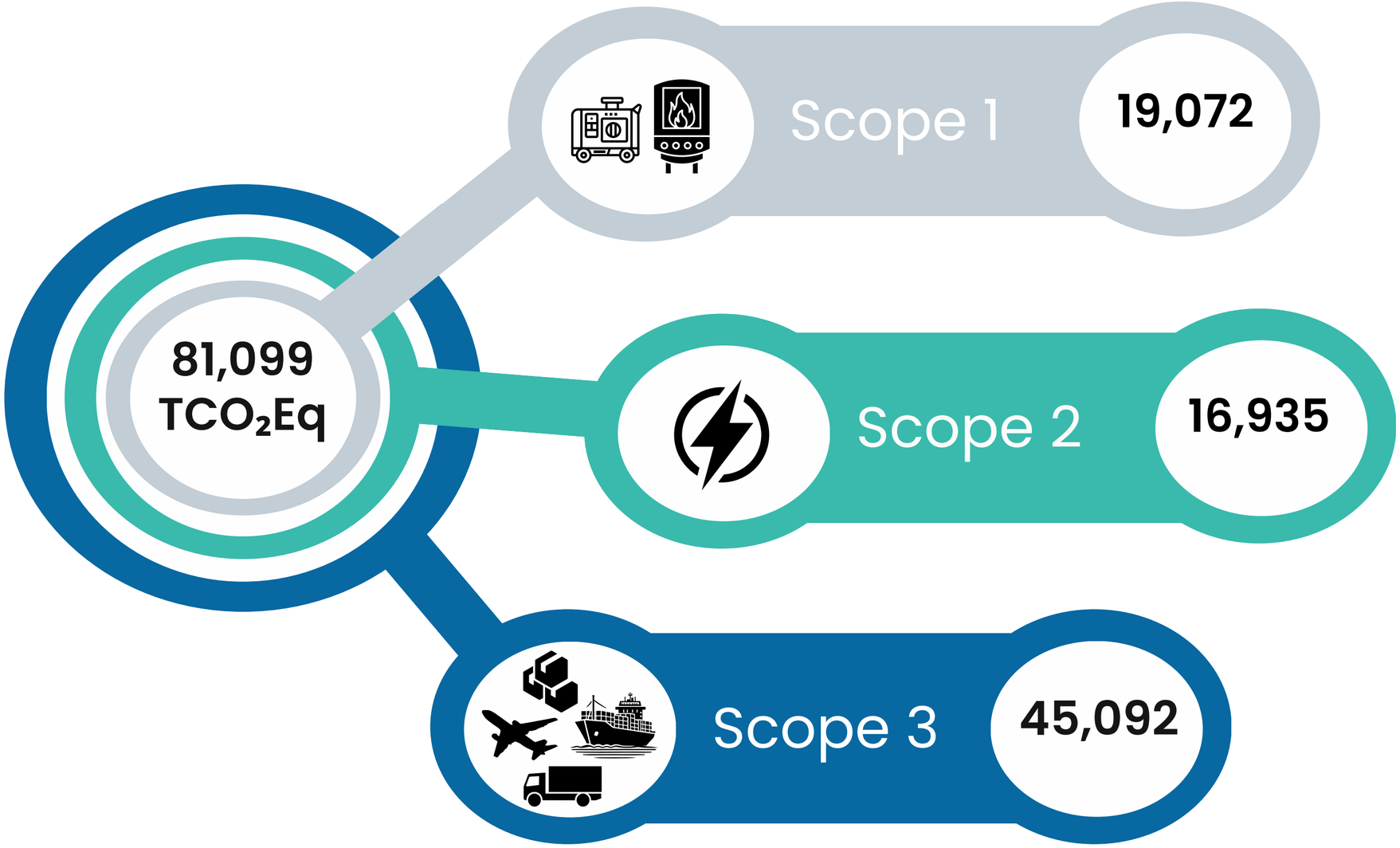
Total GHG Emission in TCO_2Eq

Reporting Period
FY 2023-24



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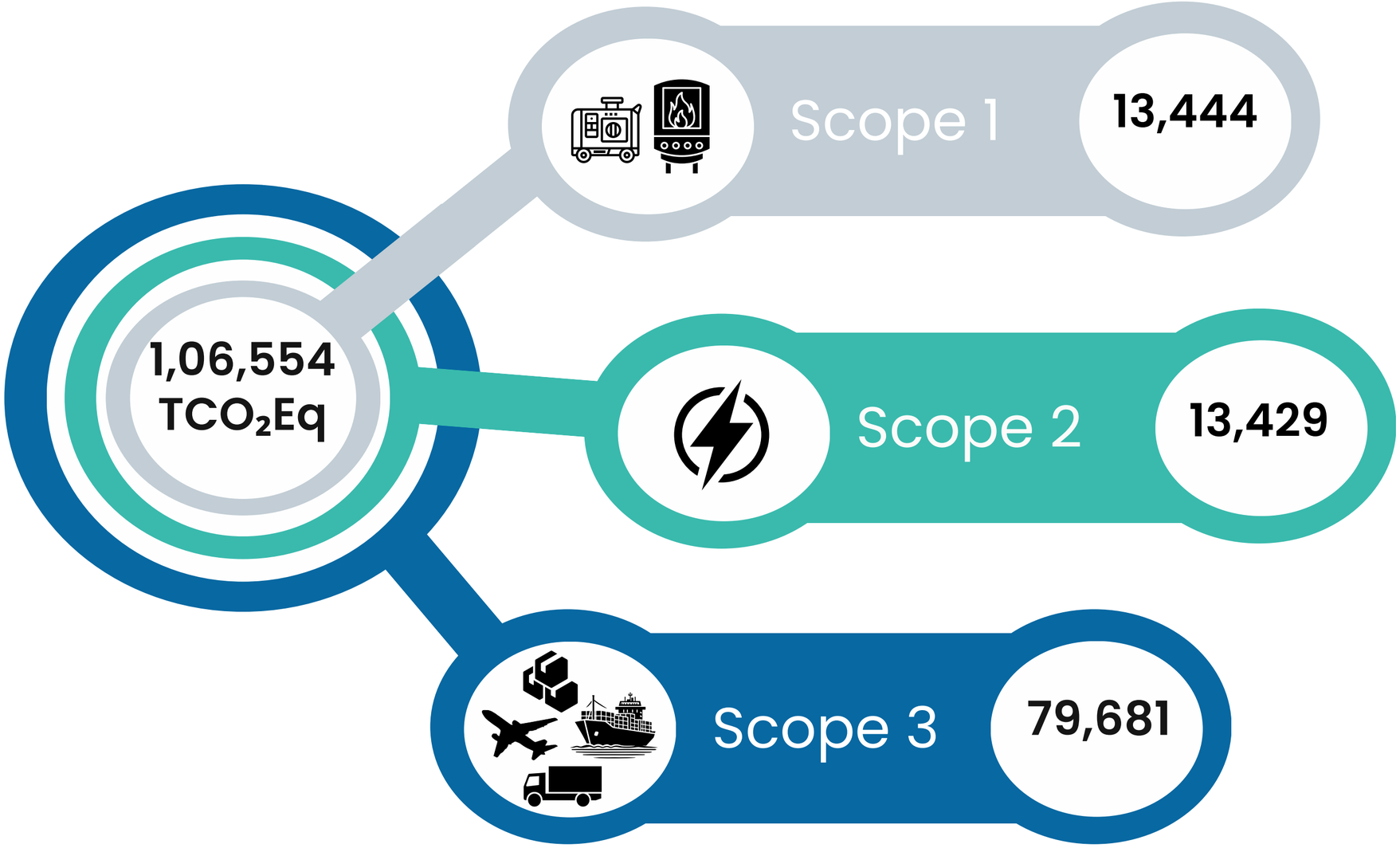
Total GHG Emission in TCO_2Eq

Reporting Period
FY 2024-25



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THANK YOU