

GHG Assessment FY 2024-25



GUJARAT AMBUJA EXPORTS LIMITED
NURTURING BRANDS



CONTENTS



Assessment Boundary

- **Gujarat Ambuja Export Ltd. (GAEL)** is a leading **agro manufacturing** company in India.
- GAEL is principally involved in the manufacturing of

Corn Starch Derivatives

Soya Derivatives

Feed Ingredients

Cotton Yarn

Edible Oils

This assessments involves GHG Emissions accounting for

Scope 1



Direct
emissions

Scope 2



Purchased
energy

Scope 3



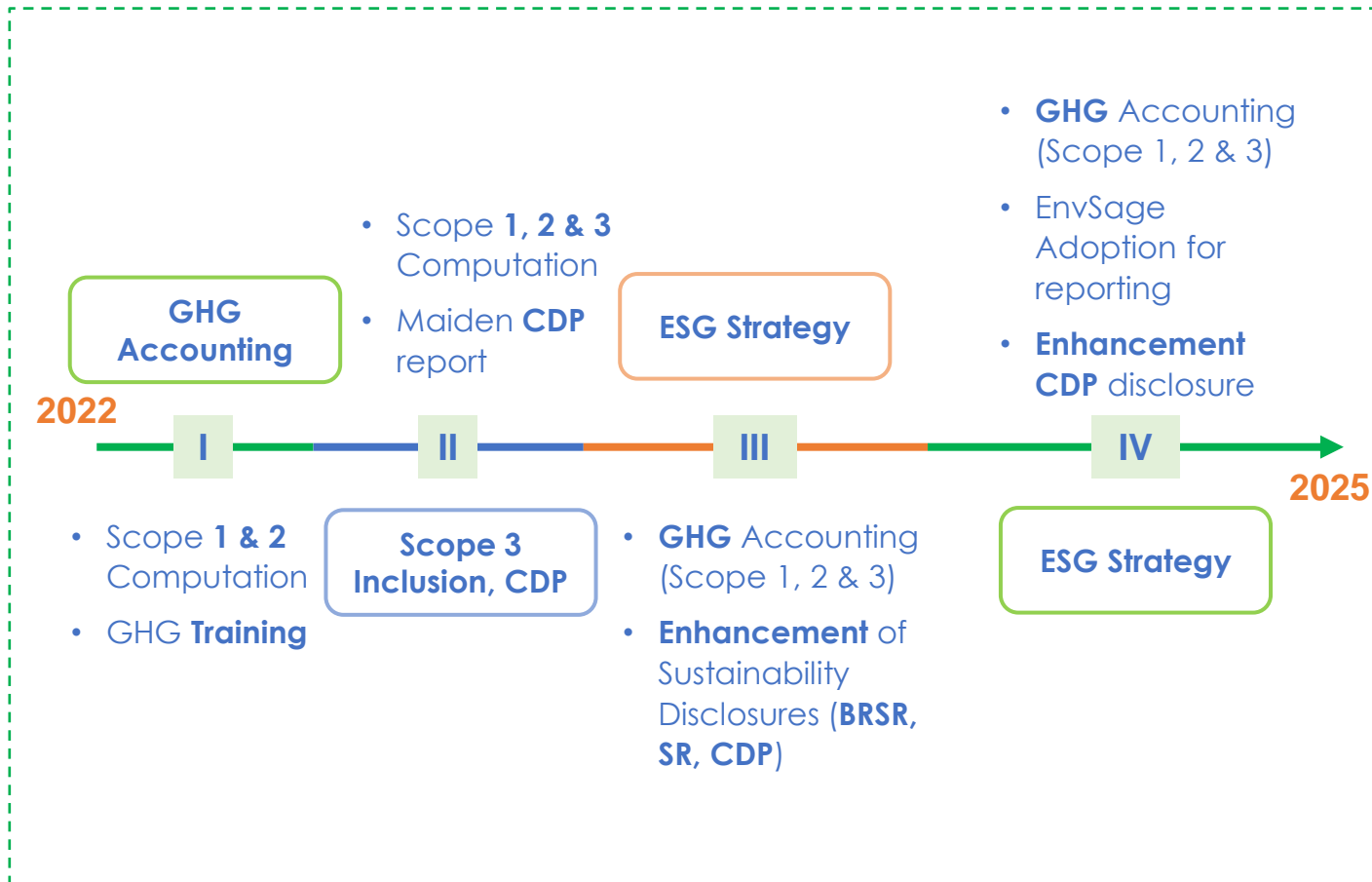
Value
chain

covering **10 manufacturing plants** and **1 Head office** pan India.

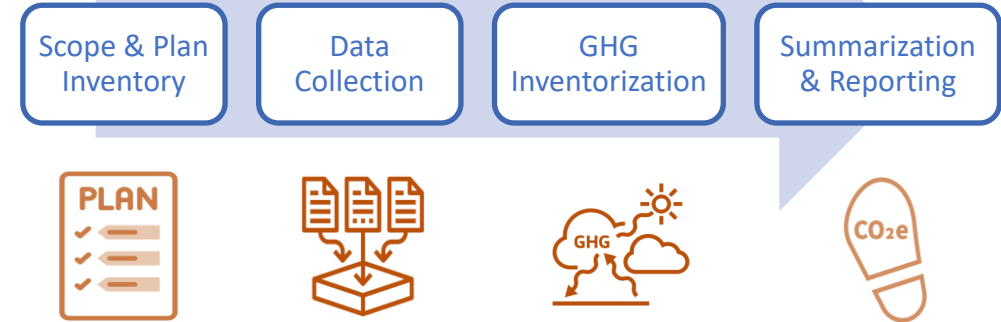


Progress Timeline and Methodology

Phase-by-Phase Transition



Methodology



Reference frameworks



GHG Inventorization: Summary

Scope 1

Direct GHG emissions through assets owned/controlled by GAEL:

1. **Stationary Combustion**
2. **Mobile Combustion**
3. **Fugitive Emissions**
4. Emissions from physical and chemical processing

Scope 2

Indirect GHG Emissions through use of purchased electricity/heat or steam:

Location-based:

1. **Purchased Electricity from Grid**
2. **Purchased energy from heat/steam**

Renewables

Scope 2 location-based **emissions avoided** from renewables:

1. **Solar**
2. **Wind**
3. **Biogas**

Scope 3

Other Indirect GHG emissions included in Company's value chain:

1. Purchased goods and services
2. Capital goods
3. *Fuel and energy related activities
4. Upstream transportation and distribution
5. Waste generated in operations
6. **Business travel**
7. **Employee commute**
8. Upstream leased assets
9. **Downstream transportation and distribution**
10. Processing of sold products
11. Use of sold products
12. End-of-life treatment of sold products
13. Downstream leased assets
14. Franchises
15. Investments

Included in assessment

Not in scope of the assessment

*T&D losses

GHG Assessment: Summary

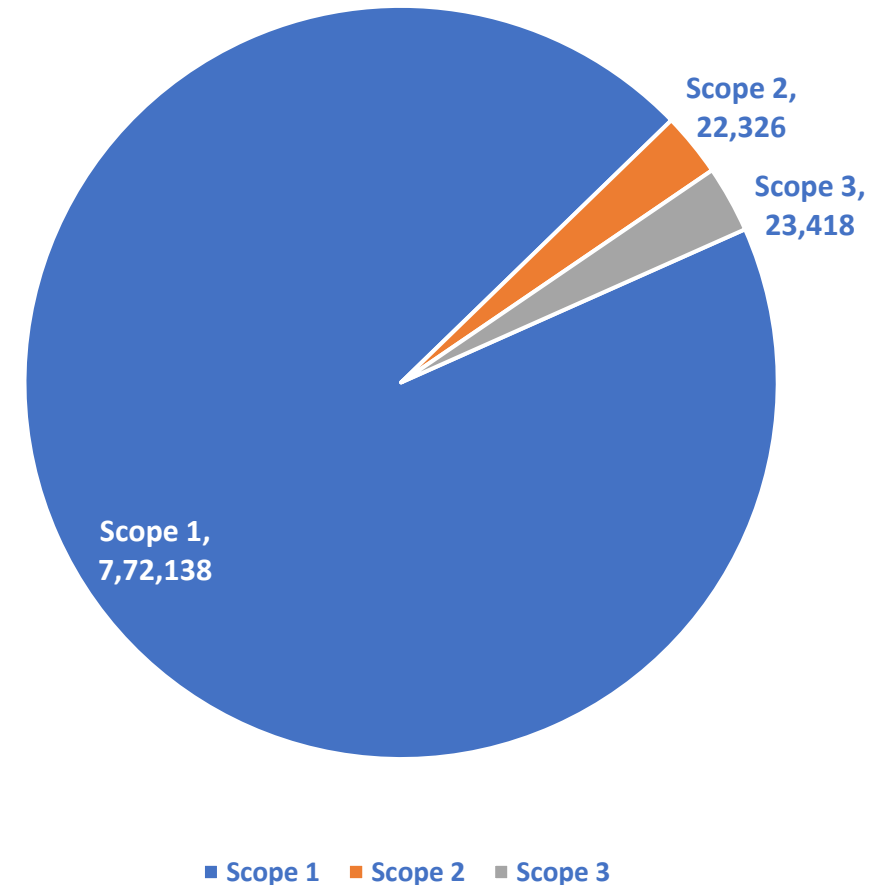
Emission Summary (MTCO₂e)

Summary	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Scope 1	4,48,619	6,71,895	7,63,528	7,72,138
Scope 2	37,217	24,638	23,940	22,326
Scope 3	15,552	22,532	23,447	23,418
Total	5,01,388	7,19,065	8,10,915	8,17,882

Emission Savings (MTCO₂e)

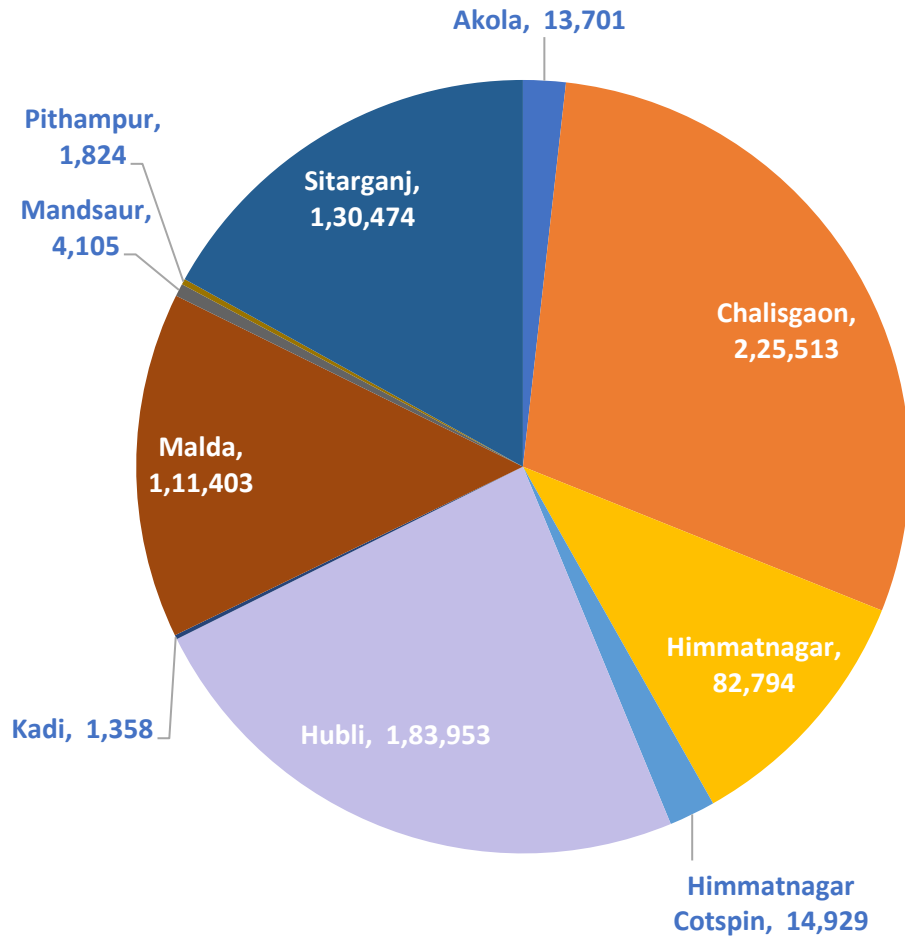
Renewable Energy	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Solar	1,656	5,735	6,566	5,564
Wind	2,366	6,572	6,063	6,068
Biogas	-	15,088	12,386	16,010
Total	4,022	27,395	25,015	27,643

Emissions Summary FY 25 (MT CO₂e)

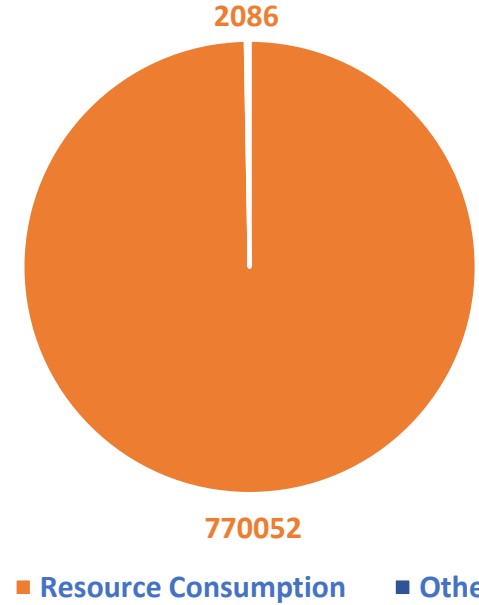


Scope 1 Emissions (FY 25)

Plant-wise Scope 1 Emissions Breakdown (MTCO₂e)



Scope 1 Emissions Breakdown (MTCO₂e)



1.13%

Increase in Scope 1 emissions compared to FY 24 due to increase in production

99.7%

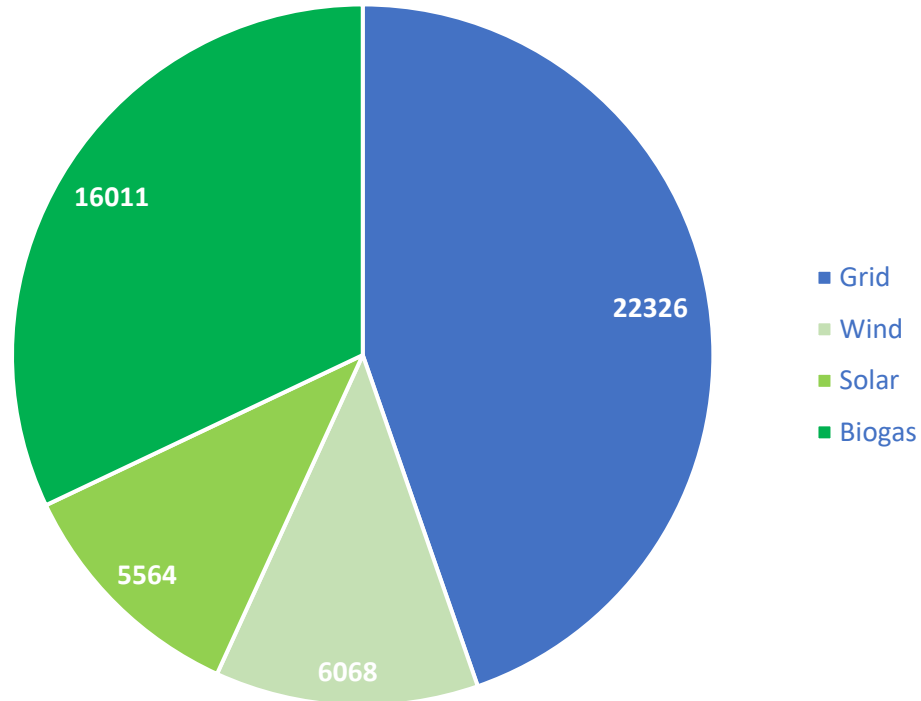
Emissions from Captive power plant

61%

Of the other Scope 1 emissions from refrigerants

Scope 2 Emissions (FY 25)

Scope 2 Emissions Breakdown (MTCO₂e)



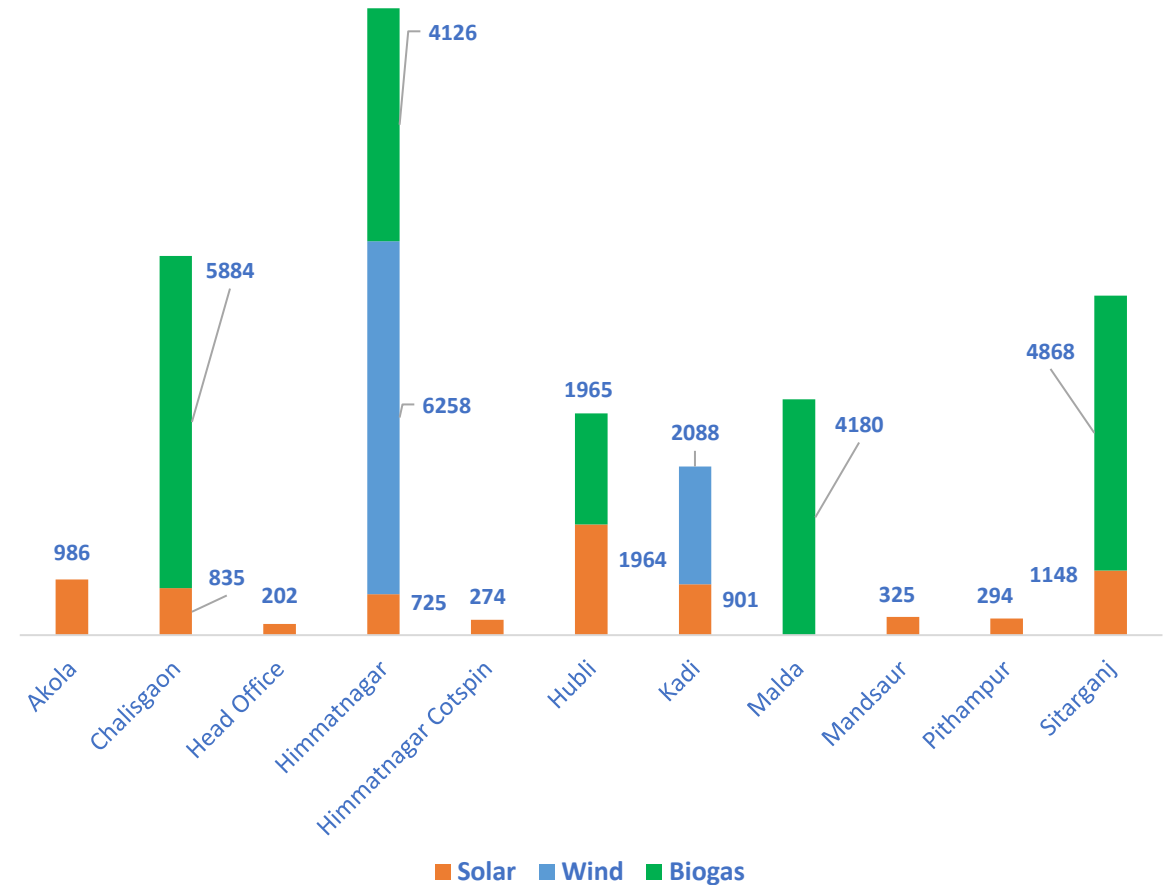
32%

Of Scope 2 emissions from Biogas.

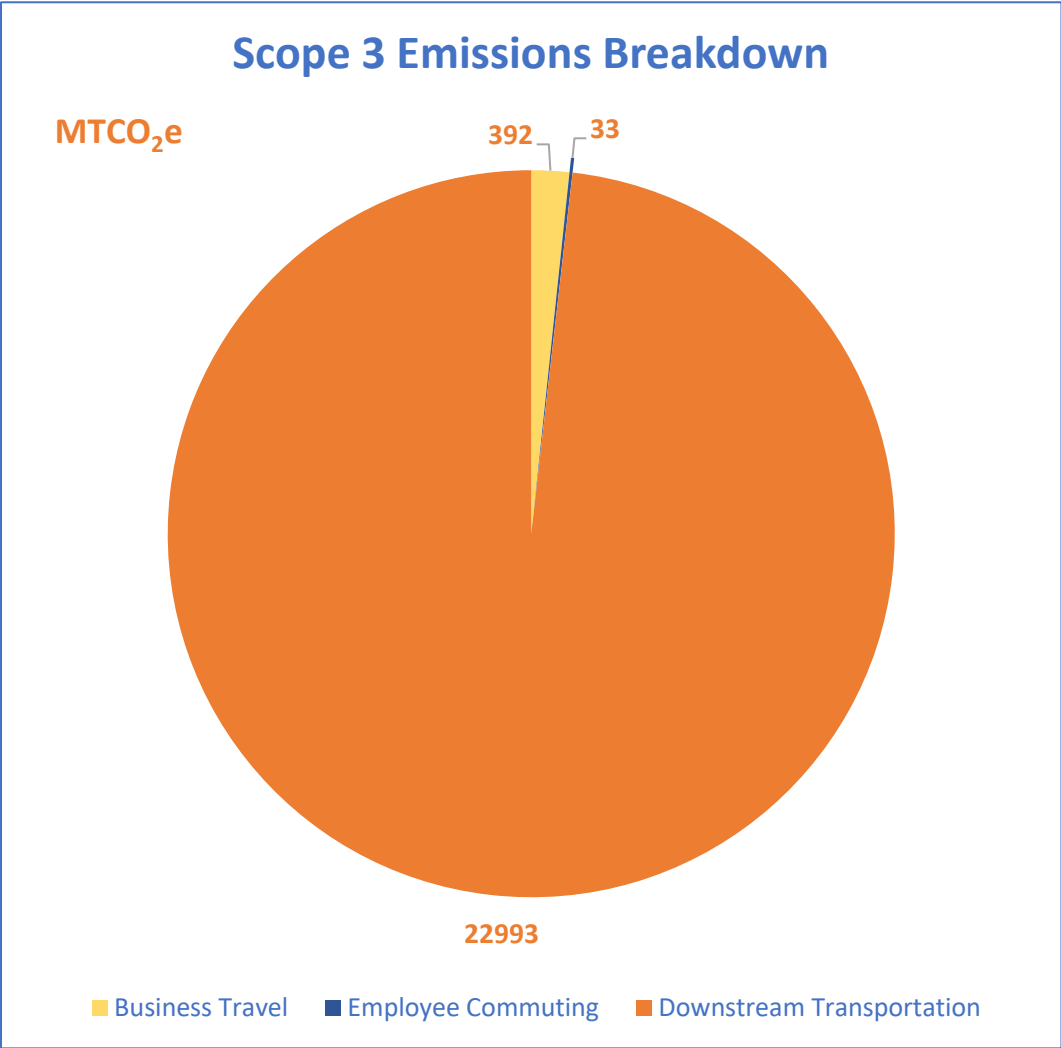
6.7%

Decrease in scope 2 emissions compared to FY24.

Renewable Energy Consumption (MwH)



Scope 3 Emissions (FY 25)



Category	FY 2024-25	
	Scope 3 Emissions (MTCO2e)	Total Emissions (MTCO2e)
Business Travel	392	23418
Employee Commuting	33	
Downstream Transportation	22992	

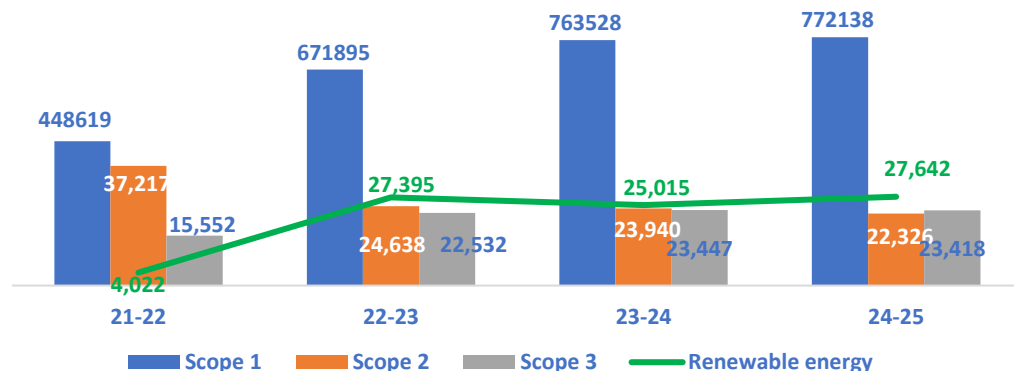
3/15	Scope 3 categories considered for FY 25.
98.1%	Of Scope 3 emissions from Downstream Transportation.
0.12	Reduction in Overall Scope 3 emissions compared to FY 24.

Energy-Emissions Index

YOY variations in emissions

Particular	FY 23 – FY 24	FY 24 – FY 25
	%	%
Scope 1	▲ 13.64	▲ 1.13
Scope 2	▼ -2.83	▼ -6.74
Scope 3	▲ 4.06	▲ -0.12
Renewable Energy	▼ -8.69	▲ 10.50

Scope 1, 2 & 3 and Renewable Energy



Recommendations

Alternative Fuel Sources

- Switching to **low GWP refrigerants** such as **R-32** and **R-290**.
- Increased utilization of **agrowaste** and **biogas** to replace fossil fuels in boilers.
- Upgrade existing machinery and other energy-saving equipment, and transition to **renewables** in a phased manner.

Strategic Decarbonization














- Set internal plant-level **science-based** aligned decarbonization **targets & goals**.
- Identify and assess additional applicable Scope 3 categories (e.g., **Capital goods, use of sold products**) to enhance emissions coverage and accountability across the **value chain**.

Peer Highlights

Indian Peers	Global Peer
<div>    </div>	<div>  </div>

Variations from reported emissions (in %)

Company	FY 24	FY 25	Variation
	MTCO ₂ e	MTCO ₂ e	%
GAEL	8,10,915	8,17,882	0.86 ▲
Godrej Agrovet	9,50,313	13,31,489	40.11 ▲
AWL	7,59,849	7,95,295	4.66 ▲

Targets	
<div>  </div>	<div>  90% renewable energy by FY26  Carbon Neutral by FY35  Planned reduction in scope 1 & 2 by 37.5% and scope 3 by 16% by FY35 </div>
<div>  </div>	<div>  Zero deforestation by FY30  Reduce emissions from global supply by 30% by FY30  Reduce absolute operational GHG emissions by 10% in FY25 </div>
<div>  </div>	<div>  Digitization of logistics system  Transition to multi modal logistics  Switch to cleaner fuels such as CNG and LNG </div>
<div>  </div>	<div>  Initiatives for tree plantation and sustainable energy practices  Increased investment in solar installations </div>

Summary

8,17,882 MTCO₂e is equivalent to about:



2,657 Flights from Delhi to New York



18,476 Trains from Kashmir to Kanyakumari



2,63,83,298 Trees per year



12,02,76,802 Cubic feet of concrete

Next Steps



GREENHOUSE
GAS PROTOCOL

Inclusion of Additional
Scope 3 categories



SCIENCE
BASED
TARGETS

Setting & monitoring
of baseline targets



BRSR GRI

CDP

Enhancement
of Reports

Decarbonization Action Plan

GHG Reduction Target

- Set site-specific internal emission reduction targets.
- Frequent monitoring with regulated check-ins.

Energy Efficiency

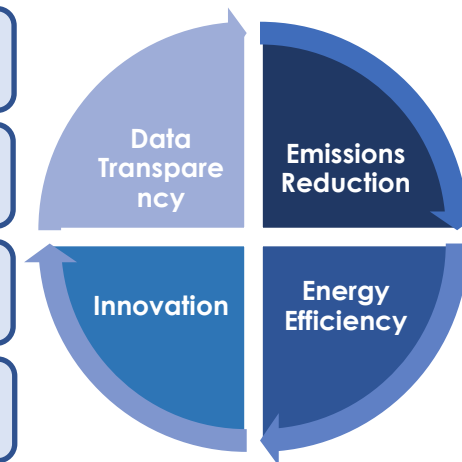
- Transition to renewable energy across all plants.

Initiatives

- Encourage green initiatives and collaborations.
- Invest in R&D.

Data Sharing and Transparency

- Ensure that the data is recorded and maintained.
- Public disclosures for the same.



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