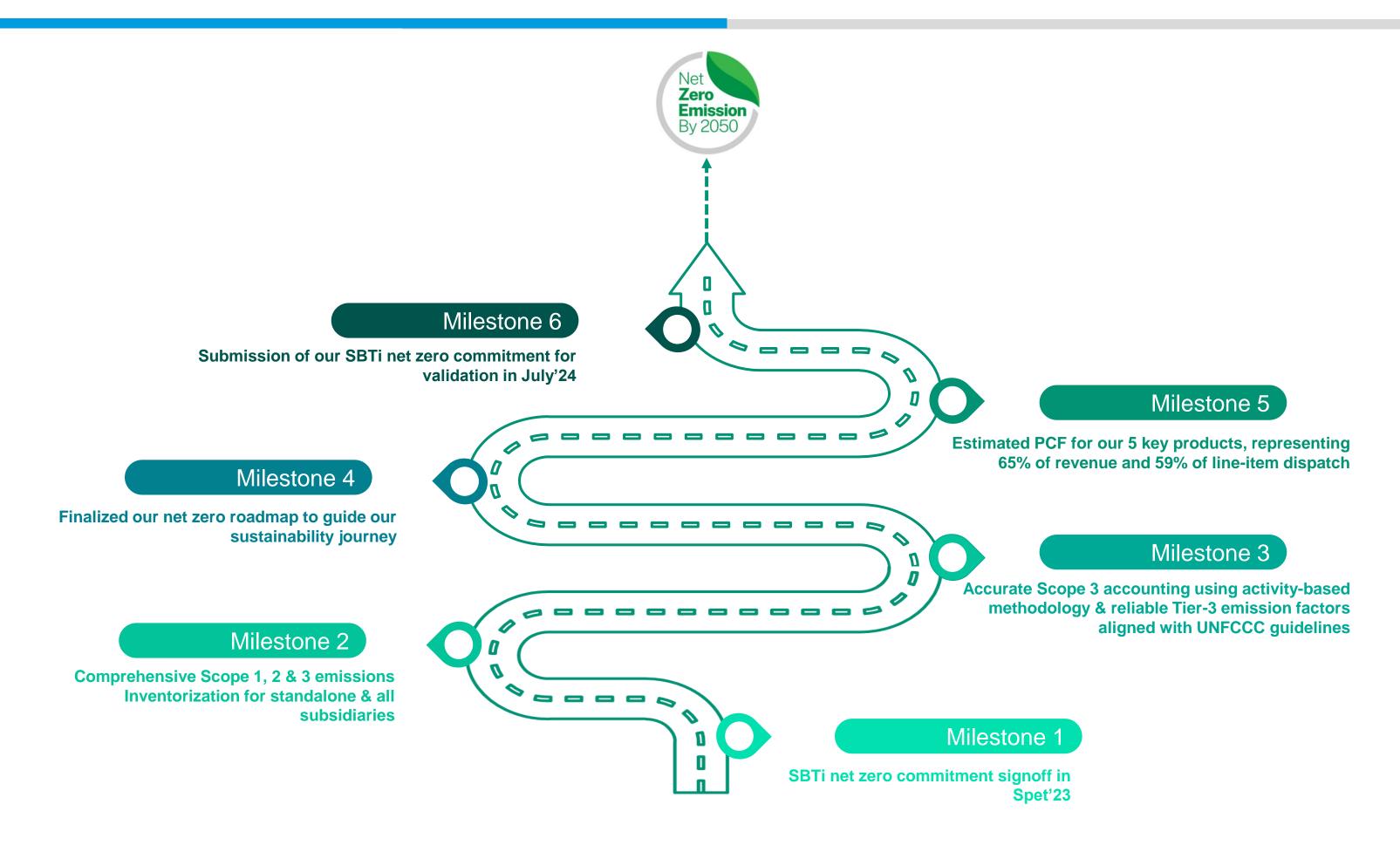




Vision | Approach | Methodology



Our decarbonization vision



Our Carbon Footprint

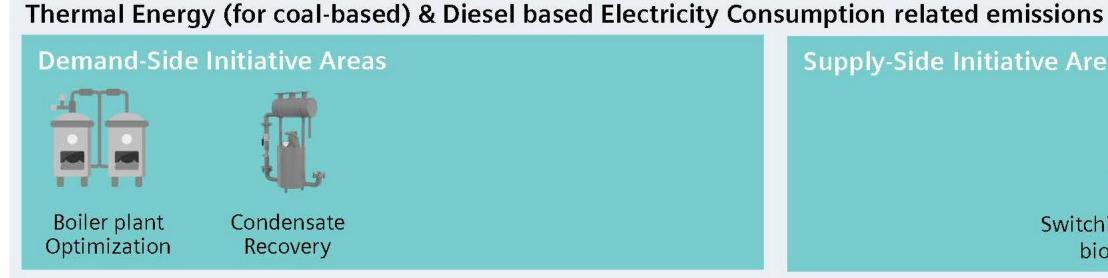
Granules GHG Emission Profile , tCo2 eq		Emission Profile For FY 2022-23		
Scope	Emission Category	GIL Standalone	GIL-All Subsidiries	GIL Consolidated
Scope-1	Direct emissions from sources owned or controlled by a company (Coal, Fuels)	56,265	1,551	57,816
Scope-2 (Market-Based)	Indirect emissions from the generation of purchased energy (Electricity)	56,306	1,668	57,974
Scope-2 (Location -Based)	Indirect emissions from the generation of purchased energy (Electricity)	62,433	1,668	64,101
	Scope-1+2 Total	1,12,571	3,219	1,15,790
Scope-3	Category 1 - Purchased Goods & Services	4,95,807	882	4,96,689
Scope-3	Category 2 - Capital Goods	4,705	465	5,170
Scope-3	Category 3 - Fuel and Energy Related Activities	26,788	403	27,191
Scope-3	Category 4 - Upstream Transportation & Distribution	8,392	33	8,425
Scope-3	Category 5 - Waste Generated from Operations	2,992	1,625	4,618
Scope-3	Category 6 - Business Travel	295	37	332
Scope-3	Category 7 - Employee Commuting	1,476	314	1,790
Scope-3	Category 8 - Upstream Leased Assets	587	4,205	4,792
Scope-3	Category 9 - Downstream Transportation & Distribution	22,381	3,131	25,512
Scope-3	Category 10 - Processing of Sold Products	46,658	-	46,658
Scope-3	Category 11 - Use of Sold Products	-	-	-
Scope-3	Category 12 - End of Life Treatment of sold products	4,031	28	4,059
Scope-3	Category 13 - Downstream Leased Assets	-	-	-
Scope-3	Category 14 - Franchises	-	-	-
Scope-3	Category 15 - Investments	-	-	-
	Scope-3 Total	6,14,113	11,123	6,25,236
Total Emission	s - Scope 1 ,Scope 2 (marked Based) and Scope 3	7,26,684	14,342	7,41,026

Emission Profile For FY 2023-24							
GIL Standalone	GIL-All Subsidiries	GIL Consolidated					
56,254	2,001	58,254					
31,632	2,886	34,519					
60,191	2,886	63,078					
<i>87,88</i> 6	4,887	92,773					
5,14,516	5,292	5,19,808					
10,265	18,565	28,830					
22,579	<i>87</i> 5	23,453					
8,557	83	8,640					
3,571	150	3,721					
850	81	931					
1,571	518	2,089					
1,628	6,153	7,781					
24,827	1,097	25,924					
41,187	1	41,188					
-	-	-					
4,287	43	4,330					
-	-	-					
-	-	-					
-	-	-					
6,33,837	32,857	6,66,694					
7,21,723	37,744	7,59,467					

Addressing Scope 1 and Scope 2 emissions

To reduce Scope 1 and Scope 2 GHG emissions a balanced approach of supply-side and demand-side initiatives has been identified to support decarbonization till 2030. It identifies that beyond 2030 a high green energy support will be needed to meet the decarbonization goals. This strategy is based on a detailed study at the Bonthapally and Gagillapur facilities, where the primary sources of emissions are coal-fired boilers and grid electricity. Granules will utilize a similar approach for other operational locations.

Scope 1





2

Scope





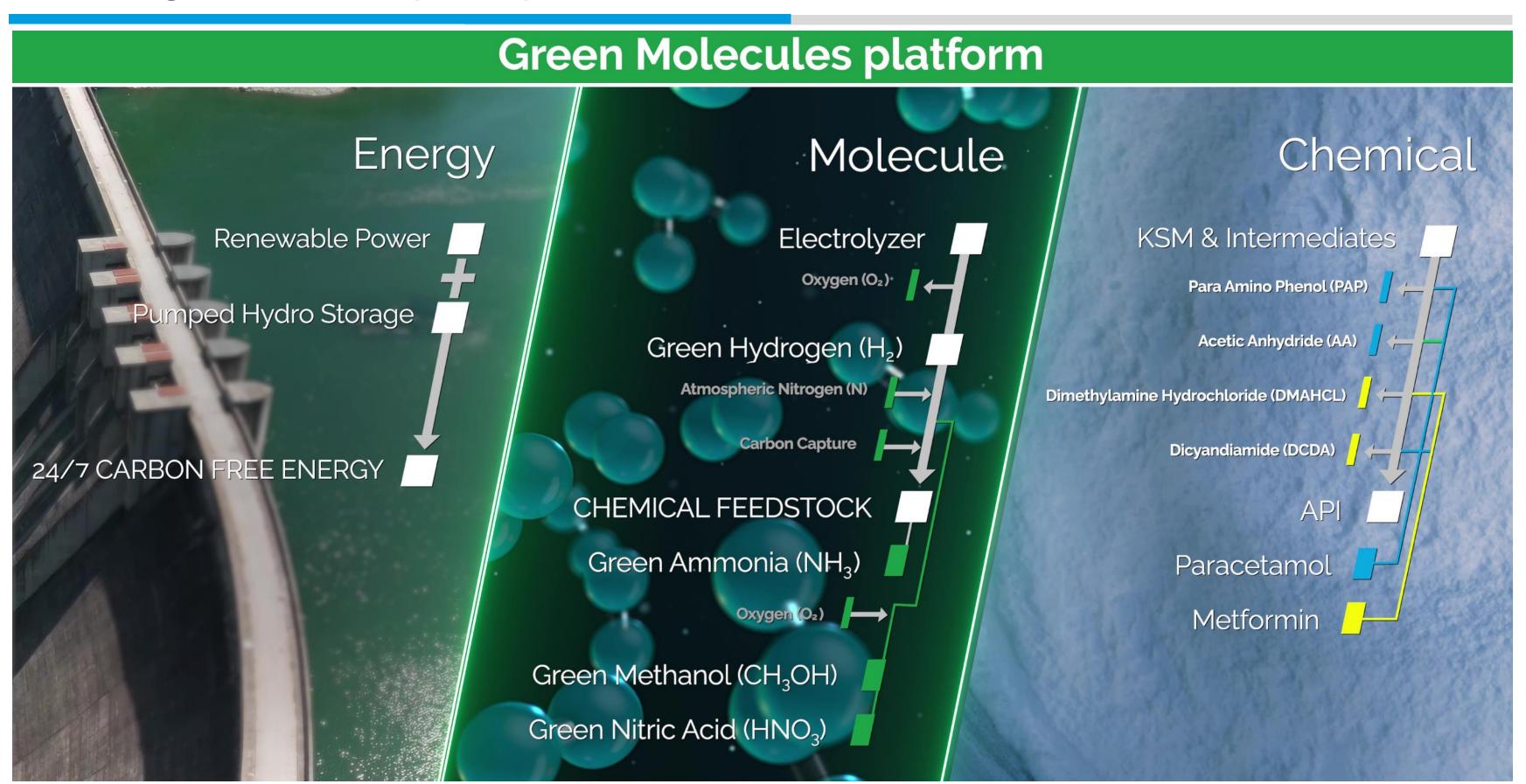
Addressing Scope 3 emissions - Various levers identified

Category	Recommended initiatives	Carbon reduction impact	Implementation time	Feasibility
Cat 1: Purchased Goods & Services	Supplier Mix Optimization	High	Medium	High
	Scope 1/2 Targets	High	Low	Medium
Services	Sustainable Packaging	Low	Medium	Low
	Emissions savings due to coal savings from FIMs	Medium	Low	High
Cat 3: Fuel & Energy Related Activities	Emissions savings due to electricity savings from FIMs	Low	Low	High
Activities	Emission savings due to grid decarbonization	High	High	High
Cat 4: Upstream T&D	Consolidating Shipments			
	Utilizing Multi-Modal Transportation			
Cat 5: Waste	Reduction of non-hazardous paper waste	Low	High	Medium
Cat 6: Business Travel	Optimize Mode of Travel	Low	Low	High
	Green Travel Options	Low	Low	High
	Flexible Working Hours	Low	Low	High
	Carpooling & Shared Mobility	Low	Low	High
Cat 7: Employee Commute	Offer EV charging Infra and Leasing Options for EV Adoption	Low	Medium	High
	EV Fleet for company buses / cars	Low Medium	Medium	High
Cat 8: Upstream Leased Assets	Integrate renewable energy and implement BMS	Low	Medium	Medium
	Transition of shipment mode from air to sea	Medium	High	Low
Cat 9: Downstream T&D	Consolidation of container utilization	Low	High	Low
	Shift to EVs	Low	High	Low

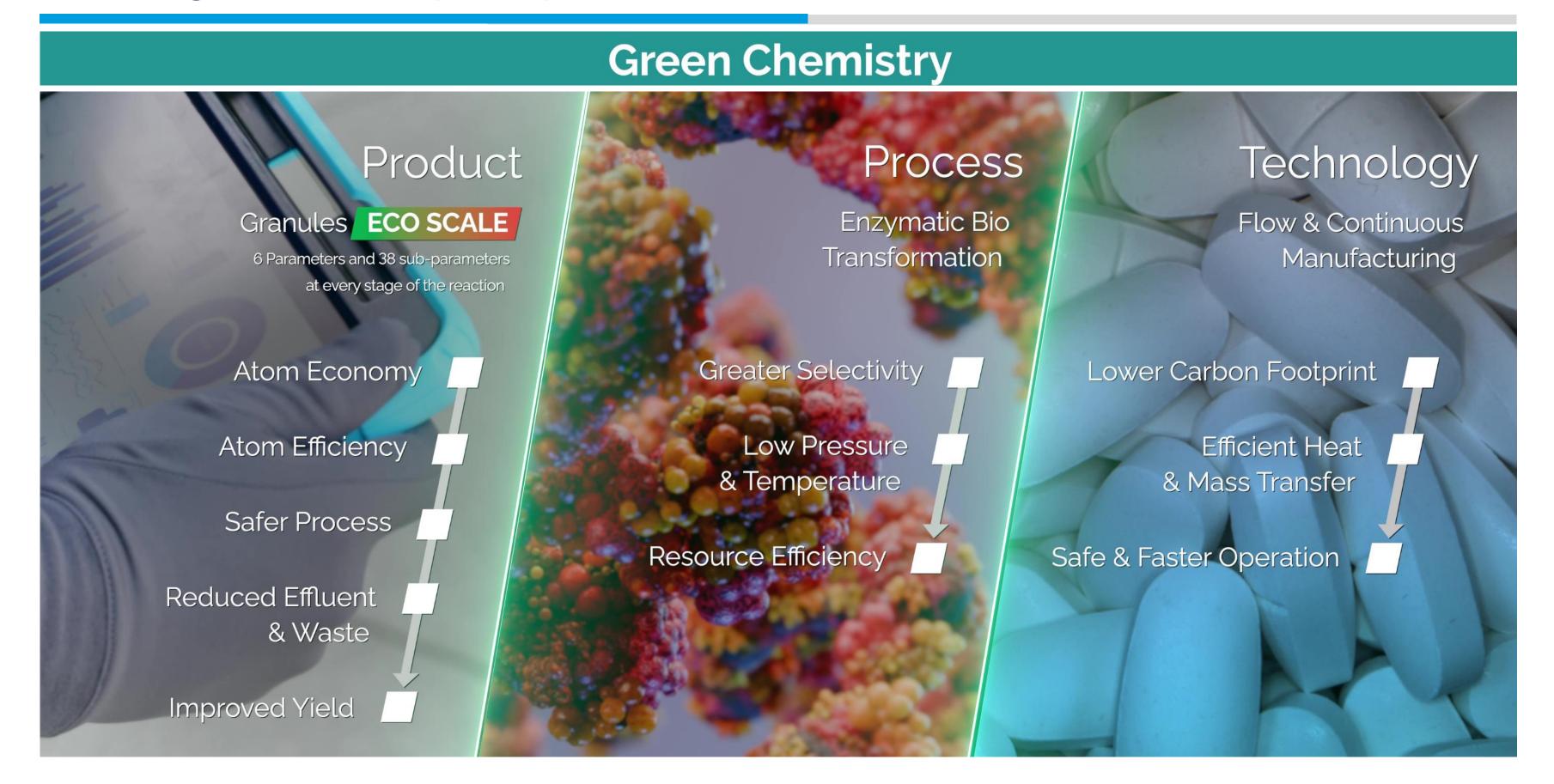
Pioneering Green Science (3-Piller approach)



Pioneering Green Science (Pillar-1)



Pioneering Green Science (Pillar-2)



Pioneering Green Science (Pillar-3)



Supplier Sustainability Program

GHG Reduction Targets

Encourage suppliers to set and commit to measurable GHG reduction targets aligned with industry standards.

Data Sharing and Transparency

Promote regular reporting and data sharing on GHG emissions, ensuring transparency and accountability throughout the supply chain

Training and Capacity Building:

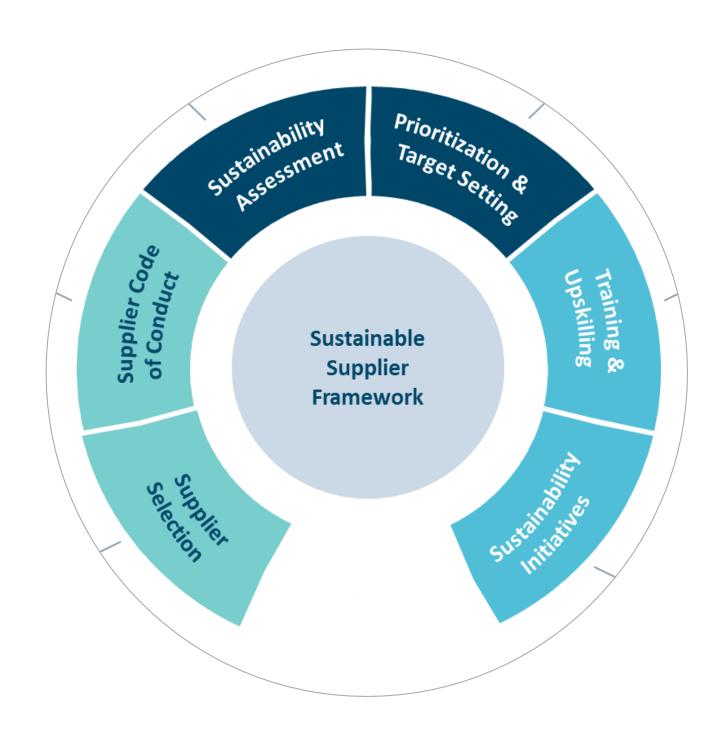
Provide resources and training to help suppliers understand GHG reduction practices and implement energy-efficient solutions

Collaboration on Innovation

Partner with suppliers to co-develop low-carbon technologies, materials, and processes to reduce emissions across operations.

Incentives and Recognition

Offer incentives or recognition programs for suppliers that demonstrate significant progress in their GHG reduction efforts.



Our Supplier Engagement Approach

Supplier Sustainability Program

Our Ask to Supplier Commitment



1.Disclose Carbon Footprint

Disclose Scope 1, 2, and 3 emissions related to Granules business by the end of 2024.



2. Commitment to Science Based Target Initiative (SBTi)

Develop and submit a science-based target to the SBTi by the end of 2025.



3. Declare Product Carbon Footprint (PCF)

Provide Product carbon footprint (PCF) for products and facilities for business with Granules.



4. Commit to Accelerating Renewable Energy Adoption Increase renewable energy in the electricity purchase and to 100% renewable energy within next 5 years.

We have rolled out the supplier sustainability program for top suppliers covering the more than 80 % of our purchase value.



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