



Confederation of Indian Industry

GreenCo Rating for Chemical and Pharma Sector



CHEMPHARMA SUMMIT

20TH JUNE 2024

CII - GreenCo Rating System

- ❖ **Green Rating to assess Environment performance of companies**
 - **Facilitate to achieve world class in 'Green' and facilitate Net Zero**
 - **Holistic / Life cycle approach, including biodiversity**
- ❖ **First of-its-kind in the world**
- ❖ **Excellent response – 1100 + Plants are working**
 - **850 + plants are rated**
- ❖ **Dr Reddy, Cipla, Aragen, Clean Science, Natco Pharma**

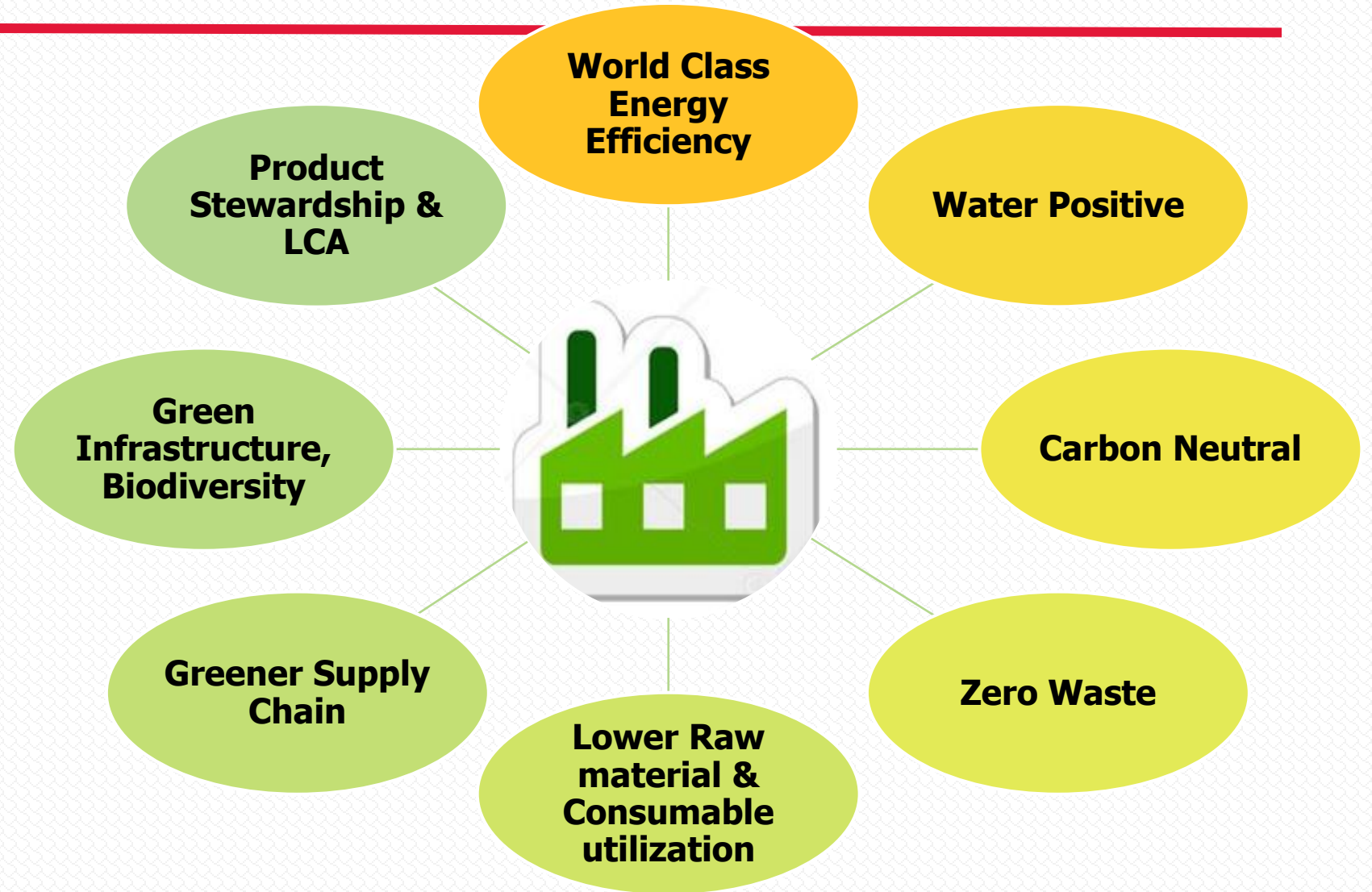


GreenCo Rating

- **Voluntary rating to facilitate world class green status**

- **Ultimate objective**

- **Carbon Neutral,**
- **Water Positive**
- **Zero Waste**



GreenCo Rating Framework – Version-IV, 2023

No	Parameter	Points
1	Management System	75
2	Energy Management	150
3	GHG Management	150
4	Water Management	125
5	Material Resource Management	125
6	Green Supply Chain	100
7	Product Stewardship & Life cycle aspects	125
8	Innovation for Environment	50
9	Green Built Environment, Ecology & Others	100
	Total	1000

Platinum+ Applicable to Platinum companies – continue to improve & excel to next higher level



GreenCo Benefits (by the first 500 companies)

Cumulative savings reported	Till May 2024
Electrical Energy Savings	561 Million Units
Thermal Energy Savings	1.4 Million ToE
GHG Emission Mitigation	5 Million MT CO2 eq.
Water Conservation	193 Million kL
Resource Conservation	21 Million MT
Renewable Energy Addition	20.4 GWp
Waste Reduction at Source	92,000 MT
Waste Diverted from Landfill	0.25 million MT
Total Investment Made	Rs. 4700 Crores
Recurring Monetary Savings	Rs. 4800 Crores

GreenCo Rating System & BRSR

BRSR	GreenCo
Governance, Leadership & Oversight	Systems: Leadership, Employees, Policies, Reviews Monitoring Systems
Life Cycle Perspective / Assessments	Life Cycle Assessment, Product Carbon Footprint, GreenPro, Environment Product Declaration
Materiality Assessment	Mapping of all resources – Energy, Material, Water, Waste; Risk Assessment
Energy, Water, Waste, Air Emissions, GHG Emissions (1&2)	Target setting, Energy, Renewable Energy, Water, Waste, Air Emissions, GHG Emissions (1,2&3), Raw Material, Consumables, Packaging, Supply Chain Resources
Social Impact Assessment	Social aspects among stakeholders: Employees, Value Chain Associates, Society
Consumer Value	Product Design, Performance, Use, End of life

GreenCo helps companies to perform beyond regulations and facilitates world class practices



GreenCo Rating System – Version IV (Pharma)

Parameter	Points
Management System	100
Energy Management	125
Carbon Management	150
Water Management	100
Material Resource Management	100
Green Supply Chain	75
Product Stewardship and Life Cycle Approach	100
Innovation for Environment	50
Green Built Environment and Others	100
Total	900*

GreenCo Systems as a part of regular activity

Pharmaceutical Good manufacturing practices (GMP)

Water Mapping, water neutrality, SWC, RWH

Zero Liquid Status – Strategies adopted

Projects Implemented & % energy savings. Specific energy consumption on product basis effectively utilizing the capacity of major equipment. Equipment wise benchmarking

Value chain decarbonization, climate risk assessment, product carbon footprint

Carbon Intensity & absolute reduction of scope 1 and 2 GHG emissions

*points scored out of 900 is extrapolated to 1000 to arrive the final rating level



GreenCo Rating System – Version IV (Pharma)

Parameter	Points
Management System	100
Energy Management	125
Carbon Management	150
Water Management	100
Material Resource Management	100
Green Supply Chain	75
Product Stewardship and Life Cycle Approach	100
Innovation for Environment	50
Green Built Environment and Others	100
Total	900*

Material circularity, raw material, consumables, packaging, ZWTL

Supplier engagement, improvement, green procurement

Product design, packaging, performance, end of life, LCA, GreenPro, EPD

Yield improvement through Green Chemistry projects

Supplier selection frameworks like PSCI, equivalent to ISO 20400-2017 standards

Green chemistry principles (Product Safety – Labelling, storage and transport) Process design and performance, Product vigilance

Interior & exterior spaces, biodiversity, social aspects, safety, beyond the fence

Chemical Safety Measures

*points scored out of 900 is extrapolated to 1000 to arrive the final rating level



GreenCo – One single tool for all Environmental Requirements

- ❖ **Takes care of present requirements**
- ❖ **Prepares for future environmental regulations & mitigates risk**
- ❖ **Facilitating Net Zero**
- ❖ **Improves ESG Performances**



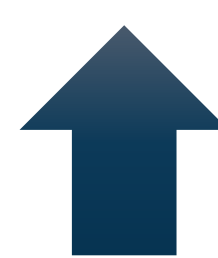
GreenCo Trends



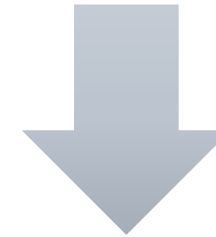
Green Scorecard for competitiveness



Description	Name	Target	Actual
1. Melting Energy KWH/TON		2750000	2750000
2. Consumption of Borings %		8%	7.5%
3. Holding Energy KWH/TON		2800000	2800000
4. Alloy Consumption %		4.50%	4.50%
5. Metal Piggings %		4.50%	4.50%
6. Production Delay %		15.7%	14.5%
7. No. of Molds Poured/SRET		1200	1200



Improved productivity, competitiveness



Reduced Energy Consumption

Link to Employees KPI & remuneration at Shop floor level

Green Scorecards for major resource intensive equipment

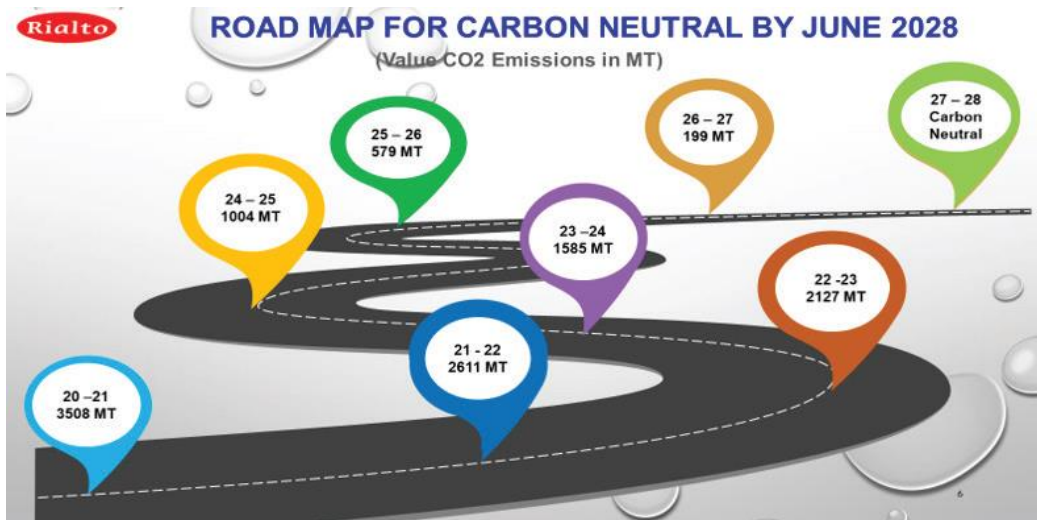


Net Zero Targets – FMCG Unit

Net Zero Targets

Carbon neutral by 2028

Net zero carbon by 2040



Net Zero Approach

- **Scope 1**
 - Ecofriendly refrigerant replacement, backup solar power as DG replacement
- **Scope 2**
 - Solar power plant installations: 270 kW, 350 kW, 1 MW
- **Scope 3**
 - Localization of raw materials suppliers, supplier proximity, milk-run logistics, reusable packaging from suppliers



Green Supply Chain - Godrej & Boyce Mfg. Co. Ltd., Appliance Division

Roadmap for Godrej supplier cluster and facilitation of GreenCo in the supply chain

Supplier Cluster Roadmap

ROADMAP FOR GODREJ SUPPLIER CLUSTER												DELIVERABLES						
SWED Cellular manufacturing Multitasking				PRODUCTIVITY IMPROVEMENT				Reduction in c/o time Reduction in throughput time improvement in labor productivity										
CIQ mapping Concept of 100% inspection Quality Awt boards 7 QC tools + QC story CPV/CPK studies Poka Yoke Calibration SOP creation				QUALITY				Reduction in rework (inprocess) Zero defects at customer end Measure cost of Poor Quality										
Mapping and monitoring efficiency of Energy Water Waste Toxicity				GREEN				Reduction in Energy consumption Reduction in Water consumption Reduction in all types of Waste RoHS compliant products and processes										
Step 0 to 2				MY MACHINE				Breakdown reduction trend										
IS / 2S Red Tag campaign Fixed point photography Jogging track Safety				5 S				IS score worksheet Zero red tag items Before / after photos Boundary walls clear Department Safety Score (DSS), Frequency / Severity rate, No. of accident free days										
Time in Months			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	



Supplier Target – 2025

70% of buy-value is from GreenCo rated suppliers
>20% reduction in raw material embodied carbon



Supply Chain Collaboration - Brakes India Foundry

- Brakes India Foundry
 - Volvo's supplier of bearing housing & cap
 - Volvo promotes fossil fuel-free supply chain
- Brakes India target to supply green product
 - Drastic reduction in manufacturing emission – **"GreenCo Platinum"** rated
 - **GreenPro rating** for Casting
 - **>8500 Tons of CO2** reduction in Volvo supply chain for 1 component
 - **"Preferred supplier status"**



Brakes India, Volvo and CII
– Launch of Green Casting



Green supply chain can facilitate huge
reduction in scope-3

Zero Waste to Landfill – Honda Motorcycle & Scooter India

Zero Waste Approach

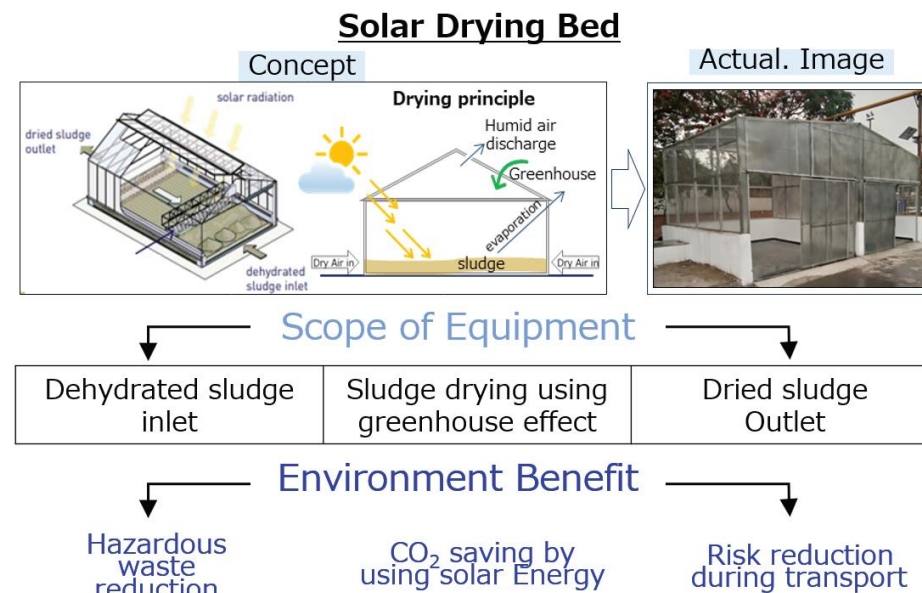
- Establishment of recycling centers
- Installation of a Coolant treatment plant
- Solar drying bed to dry ETP & paint sludge
- Digital approval system for paper use

Achievements

42% in-house recycling

46% co-processing

12% recycled outside



To sum up

- **GreenCo – Excellent tool to improve Green competitiveness and facilitate Net Zero & improve ESG performance**
- **Invite companies to be part of CII's GreenCo Movement**





Confederation of Indian Industry

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THANK YOU !