

Environment

Reducing our carbon trail



Environmental stewardship is one of our major priorities. We monitor the environmental footprint of each operational site, guided by compliance with Environmental Management System 14001.

Our facilities prioritise energy, emissions, water, and waste management. This commitment is demonstrated through leadership involvement and oversight by the ESG Committee of the Board, ensuring ESG frameworks are implemented across all operations in India.



Renewable energy

To reduce GHG emissions and save energy, we aim to increase the proportion of renewable electricity in our overall energy consumption. By utilising solar power, we are actively expanding our renewable energy capacity and reducing reliance on fossil fuels. With a cumulative installed solar capacity of 1975 kWp, we have the potential to annually reduce 1,507 tCO₂ emissions. Additionally, we are exploring infrastructure development for green electricity as part of our long-term objectives. We optimise energy consumption per unit produced through energy-efficient processes like batch time optimisation and conduct regular energy audits to improve efficiency, all aligned with our Energy Management Policy.

1,975 kWp

Cumulative installed solar capacity



Environment



Emission reduction

We prioritise carbon management and mitigation to fulfil our commitments. Our emission intensity reflects the carbon efficiency per unit of turnover. Our main GHG emissions come from Scope 2, primarily due to electricity consumption from the grid. We strive for efficiency gains and a transition to renewable energy to reduce these emissions. Through ongoing improvements and increased reliance on solar power plants, we continuously enhance our renewable energy capacity and decrease emission intensity.



Water conservation

Our water conservation approach includes optimum sourcing and effective water use. We have invested in facilities for improving the recycling rate of water. To minimise water discharge, we have established water treatment systems such as ETP (Effluent Treatment Plants) and Zero Liquid Discharge (ZLD) plants that enable the recovery of water at all our manufacturing locations.

We also have set up 13 water harvesting pits at various plant locations for water conservation. We have a Zero Liquid Discharge (ZLD) plant at our Gurugram unit, having a capacity of 50 KLD (Kilo Litre per day). MBR and Conditioning Unit with High Recovery RO Membrane-based recycling system is installed in the ZLD plant to treat High TDS water.

In addition to this, all business locations have a Waste Water Treatment Plant (WWTP), which is a combination of an Effluent Treatment Plant (ETP) and Sewage Treatment Plant (STP).

50 KLD

Capacity of our Zero Liquid Discharge unit in Gurugram



Waste management

We strive to recycle and reduce waste while transforming resources into valuable products. Hazardous waste storage and disposal are recognised as significant environmental risks, prompting us to prioritise their management.

Our manufacturing facilities actively work on minimising both hazardous and non-hazardous waste. Through various initiatives such as recycling waste oil and ETP sludge, we effectively reduce the load of hazardous waste and minimise landfill disposal.

We have dedicated waste management areas in our plants, recycling 12 types of hazardous waste through authorised vendors. Additionally, 100% of both hazardous and non-hazardous waste products are recycled through authorised recyclers. Training our employees on efficient operations and waste reduction is an integral part of our waste management strategy. In FY 2022-23, we generated a total of 16,487 MT of waste, with plastic waste accounting for 0.57% of the total.

16,487 MT

Total waste generated in FY 2022-23

0.79%

Share of plastic waste



We implemented an innovative solution to reduce die lubricant waste disposal by 75% and recycle 12,000 litres of water per day.



Responsible procurement

Sona Comstar has designed a Green Procurement Guideline, focusing on procuring products having a lower environmental footprint throughout the lifecycle i.e. procurement, production, use, and disposal, in terms of chemical management, resource efficiency, energy saving, and prevention of environmental pollution.

To eliminate high sustainability risk suppliers, we have included a well-defined metric of sustainability in our supplier selection, assessment and evaluation process. The supplier selection process comprises 17 criteria for onboarding, of which 12 are linked to environmental sustainability, governance, and social obligation. A minimum of 75% of the score is required for vendor qualification as a value chain partner thereby greatly reducing the possibility of high sustainability risk.

We also check that our suppliers comply with our Green Procurement Principle, which covers areas including human rights, labour practices and business integrity.

Material sourcing and resource conservation

Reducing waste can be achieved by selecting appropriate materials and manufacturing processes. Changing the material used has a greater impact on reducing environmental harm compared to altering the manufacturing process. Our focus is on choosing the best material, optimising its usage, and transforming it into the final product.

Additionally, we practice a circular economy by optimising resource utilisation and using recycled raw materials in the production of components. We are actively taking measures to minimise waste, such as promoting the use of returnable packaging and recycling metal scrap to steel processors. In FY 2022-23, the percentage of recycled steel and casting copper/aluminium in our production materials reached 29%, an increase from the previous year's 27.7% in FY 2021-22.

29%

Share of recycled steel and casting copper/aluminium to total material