

Measuring our sustainability efforts

Creating environmentally friendly products

We have developed robust initiatives to quantify our environmental footprint at all our global sites and are working towards minimizing our adverse impact. To monitor our environmental and health impacts, we have developed a thorough Life Cycle Assessment (LCA) processes. The scope of our LCA is from "cradle to gate": from the moment the raw materials are extracted to the moment the carbon black is delivered to our customers following the International Organization for Standardization (ISO) 14040 guidelines. This enables us to better understand our impact with regard to CO₂ emissions and identify opportunities to reduce our overall carbon footprint.

Our product development efforts are also directed towards reducing the environmental impact of our customer's products, positively contributing to the wider value chain. We have developed new grades of carbon black to help reduce the rolling resistance of tires and increase their durability, and have worked on other grades which require less water to produce and use less time and energy during the incorporation phase.

Tire durability

Vehicle tires are approximately 25% carbon black. You wouldn't be able to drive further than 8,000 km without it.

Being net energy positive

Globally, Birla Carbon is net energy positive, generating more energy from our process waste heat than we buy. We recover more energy from our own facilities and consume less energy per tonne of carbon black produced. Much of the energy we recover is used in our manufacturing process, while any surplus is sold to neighboring facilities and local grids in the form of electricity, steam, tail gas or hot water.



Addressing our FY2023 achievements

100%

of Scope 1 and 2 emissions third-party verified

72%

of waste produced in our facilities is repurposed

72%

absolute energy conversion efficiency

11

environmental releases

100%

of our sites use recycled process water and/or rain water in their operations

0.51

Total recordable incident rate (employees and contractors)

Find out more at sustainability.birlacarbon.com



Measuring our sustainability efforts continued

Ensuring the safety of our carbon black

Our Scope 1 and 2 emissions have been prepared in accordance with the GHG Protocol Corporate Standard and third-party validated. In FY22, all Scope 3 category emissions were calculated following the GHG Scope 3 Accounting and Reporting Standard and utilizing the Quantis tool.

All manufacturing locations

have increased focus on waste repurposing and using recycled process water and/or rainwater in their operations

From creation to CONTINUA[®]

