

# An eventful year

### NOVARES® LCM500: A win-win proposition

In 2024, we introduced NOVARES® LCM500, which combines renewable materials with conventional feedstocks, leading to a more sustainable, high-performance product with unmatched flexibility.



[Read more on Page 90](#)

### Extracting value from emissions-scrubber byproducts

What if we could turn waste into a resource? We did that precisely, creating new applications for emissions-scrubber byproducts in the US, called Stabilgro™ and Stabilsoil™ which are used in agriculture and soil stabilisation respectively.

[Read more on Page 125](#)

### Gold medal for RAIN's in-house safety innovation practices

The team at our Visakhapatnam, India plant earned a gold medal for their innovative emergency spray system, raising the bar in safety at RAIN.

[Read more on Page 98](#)



### Electrification of steam generation: a leap towards energy efficiency

We are transforming our energy use. For example, our Hamilton, Canada plant kicked off a project to reduce emissions by electrifying the steam generation system.

[Read more on Page 86](#)

### Launching RAIN-wide Supplier Code of Conduct

We took a significant step in 2024 by launching RAIN-wide Supplier Code of Conduct, embedding sustainability throughout our supply chain.



[Read more on Page 112](#)

### Reducing particulate matter concentrations in stack emissions

We took proactive measures to reduce particulate matter emissions in 2024, exceeding upcoming regulatory standards.

[Read more on Page 121](#)

### Empowering future talent through water usage reduction study at Lake Charles Carbon plant

Working with a graduate student, we identified ways to lower water consumption at our Lake Charles plant by over 300,000 m<sup>3</sup> annually.

[Read more on Page 123](#)

### Enforcing OSHA guidelines across segments

In 2024, we standardised OSHA safety guidelines across all our global sites, enhancing safety and best practices organisation-wide.

[Read more on Page 99](#)



### RAIN wins the Best Paper Award at the International Committee for Study of Bauxite, Alumina & Aluminium (ICSoba) 2024 Conference

Our pioneering research on emissions-free CPC production earned us the Best Paper Award at ICSoba 2024, setting new standards in the aluminium industry.

[Read more on Page 92](#)

### Engineers of the future: Promoting research through collaboration with local students

In partnership with local students, we uncovered key energy-saving opportunities that will drive sustainability at our Castrop-Rauxel plant.

[Page 110](#)

### GreenCo Gold Certification for our Nandyal, India plant

Our Nandyal plant earned the GreenCo Certification in 2024 for sustainability achievements. What's next? We are aiming for even higher standards.

[Read more on Page 29](#)



### Retrofitting of conventional lighting with LED lamps and solar lights

We reduced energy consumption and environmental impact with a major lighting retrofit across our India sites in 2024.

[Read more on Page 117](#)