



Press Release

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Rain Carbon Leveraging Innovation Leadership To Create a New Future for Its Industry in a More Sustainable World

STAMFORD, CT – Rain Carbon Inc., a leading global producer of carbon-based products and advanced materials, today announces two new initiatives as part of its commitment to minimizing the environmental impact of its operations and helping customers attain their [sustainability](#) goals.

“Building on more than a century of industry leadership and innovation, we are committed to creating a new future for Rain Carbon that empowers our company to meet rapidly emerging customer needs and accelerates the transformation of our industry in a world committed to cleaner, greener, lighter and faster products and manufacturing processes,” said Rain Carbon President Gerry Sweeney.

The company’s commitment includes two new sustainability-related initiatives. The first is a detailed carbon-footprint analysis of the company’s Vizag calciner in India. A technical paper published in late 2020 highlighted the magnitude of carbon dioxide emissions reductions achievable with energy co-generation – approximately 45%. [The paper](#) also presented data on the performance of Vizag’s world-class sulfur dioxide scrubbing system, which has virtually eliminated the facility’s SO₂ emissions and produces a sustainable byproduct used by the local brick-making industry.

The second initiative is an outgrowth of a keynote session at this year’s annual TMS conference – “Sustainability in the Aluminum Supply Chain” – that was spearheaded by Rain Carbon. The company is now working on a detailed carbon-footprint analysis with one of its aluminum smelting customers and two raw materials suppliers to better quantify cradle-to-gate emissions in producing low-carbon aluminum, with a goal of publishing results by the end of 2021.

“We live in a society where sustainability is quickly becoming a license for companies to do business, with growing demands for reduced greenhouse gas emissions, decreased energy consumption, ‘doing what’s right’ when it comes to corporate social responsibility and much more,” Sweeney said. “At Rain Carbon, we know that nothing will have a greater impact on the success of our business than our sustainability efforts and ability to meet the related needs of our customers.”

The company’s sustainability activities begin with the “upcycling” of industrial byproducts, including green petroleum coke and coal tar. By extracting additional value from these byproducts rather than allowing them to be used in less efficient and polluting ways, Rain Carbon is transforming them into critical raw materials for goods that people use every day while helping to meet growing demand for greener products.

A prime example is aluminum, which has become the “metal of choice” due to its infinite recyclability and strong, lightweight nature, which makes it an ideal material for energy-efficient vehicles. [Rain Carbon makes the production of aluminum possible](#) by providing calcined petroleum coke (from green

petroleum coke produced during oil refining) and coal tar pitch (from coal tar that is a byproduct of steel production), both of which are essential raw materials in the anodes required for smelting.

Other examples include Rain Carbon's PETRORES® specialty coatings used in the lithium-ion batteries that power zero-emission electric vehicles, and its NOVARES® resins that reduce rolling resistance in automobile tires, thereby decreasing a car's energy consumption. Elsewhere, its phthalic anhydride is a key ingredient in the strong, lightweight blades for wind turbines. And once commercial production begins, Rain Carbon's proprietary anhydrous carbon pellets will enable the company to increase its green petroleum coke utilization rate while contributing to lower emissions and energy consumption by aluminum smelters.

Rain Carbon is also working to minimize the environmental impact of its production processes. In response to growing awareness about climate change and carbon emissions, as well as a desire for improved energy efficiency, the company has made significant investments in waste-heat recovery systems at several of its calcination facilities in the United States and India and at its distillation and advanced materials sites in Belgium and Germany.

"The co-generated electricity and steam is used by our plants and other companies, and it is supplied to the local power grid, thus mitigating the need to generate the same amount of electricity – much of which would come from fossil fuel-fired plants – and eliminating the accompanying CO₂ emissions," Sweeney said. "Our clean-air efforts can also be seen in the flue-gas desulfurization systems installed at four of our plants in the United States and India that remove as much as 98% of the SO₂ from our emissions."

Beyond its products and processes, Sweeney said the company strives to enhance the quality of life in the communities where it operates as well as the well-being of its employees – the "corporate social responsibility" part of sustainability.

"While we have made important strides during the initial leg of our sustainability journey," Sweeney said, "we also know there is much more to be done. Rain Carbon is committed to leveraging the ingenuity that is part of our DNA to solidify our proven position as a ground-breaking industry leader and ensure we remain a driving force in creating a more sustainable world in the years ahead."

Press Contact

Alan Chapple
Rain Carbon Inc.
Ten Signal Road, Stamford, CT USA
Tel +1 203 517 2818
alan.chapple@raincarbon.com

About Rain Carbon Inc.

Rain Carbon Inc. is a leading vertically integrated global producer of carbon-based products that are essential raw materials for staples of everyday life. We operate in two business segments: Carbon and Advanced Materials. Our Carbon business segment converts the byproducts of oil refining and steel production into high-value, carbon-based products that are critical raw materials for the aluminum, graphite electrode, carbon black, wood preservation, titanium dioxide, refractory and several other global industries. Our Advanced Materials business segment extends the value chain of our carbon

processing through the innovative downstream transformation of a portion of our carbon output and other raw materials into high-value, eco-friendly and advanced-material products that are critical raw materials for the specialty chemicals, coatings, construction, automotive, petroleum and several other global industries. Learn more about Rain Carbon and its commitment to sustainability at www.raincarbon.com.