

# Klean Industries Continues to Expand its Recovered Carbon Black Processing Footprint in India and Malaysia

*Klean Industries announces the signing of another Letter of Intent to supply Klean's patented equipment for producing high-quality recovered carbon black.*

NEW DELHI, NCT, INDIA, June 17, 2024 /EINPresswire.com/ -- Klean Industries Inc. ("Klean") is pleased to announce the signing of a non-binding Letter of Intent ("LOI") to supply Klean's industry-leading equipment and proven patented technologies for upgrading char derived from the thermal processing of end-of-life tires ("ELT") into recovered carbon black ("rCB"). This project includes 4 new plants, 2 of which will be located in India and 2 in Malaysia. Combined, these plants are expected to annually process up to 50,000 metric tons of pyrolysis char.



Klean Industries - Recovered Carbon Black Plant for Upgrading Tire Pyrolysis Carbon Char into High Quality Recovered Carbon Black

Klean's specialized carbon upgrading systems for tire char enable the economic conversion of low-value tire char into high-value rCB which can replace virgin carbon black ("vCB") by volumes of 10% to 100% depending on the application. [Klean's proven process can increase the value of the tire char as much as 10x](#) by making it chemically and physically more acceptable for use in various manufacturing markets.

These new projects will continue to expand Klean's activities in Asia, where the KleanTeam has been actively developing projects for the past two decades. Asia produces an estimated one billion end-of-life tires per year, and many countries in this region are adopting stricter policies toward environmentally sustainable methods of processing tires. This helps create one of the largest markets in the world for recovered carbon products. The GHG impact is also significant, and it's estimated that the carbon emission offsets alone from these combined facilities will be more than 150,000 metric tons annually.

“Klean has spent years developing long-term arrangements throughout the global supply chain, enabling us to do what other vendors and suppliers cannot, at less than 50% of the capital costs and 1/4 of the manufacturing time. Today, Klean is in a unique position to help expand these international markets that are playing a larger role in the global circular economy. With more countries and corporations continuing their push for industrial circularity to achieve net-zero carbon emissions, the market for recovered carbon materials is



Klean Industries - End-of-Life Tyre Pyrolysis & Tire Recycling System

becoming global. International manufacturers are actively sourcing recovered products from Asia, India, and other countries outside the U.S. and E.U. Less than 1% percent of all carbon black material used globally in new tire production is recycled due to a weak supply pipeline for the recovery and reuse of carbon black. With Klean’s global experience and relationships with

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Klean is dedicated to changing the entire marketplace paradigm for recovered carbon black products with our decades of international experience to help support and energize this new global market.”

*Jeffrey Flannery, Head of US Operations*

product manufacturers we are also well positioned to assist customers with off-take for the recovered carbon black produced for our equipment,” said Jesse Klinkhamer, CEO of Klean Industries Inc.

“Klean is dedicated to changing the entire marketplace paradigm for recovered carbon black products. We intend to use our decades of international experience to help support and energize this new global market. We intend to bring together all qualified players, including tech companies, operators, end-users, and feedstock suppliers, to build a healthy, competitive marketplace where recovered products can be produced in volume and sold for the wide variety of industrial applications that seek

these as raw materials,” commented Jeffrey Flannery, Head of US Operations.

As technology continues to improve and be adopted, the demand for recovered carbon black is expected to surge rapidly and those prepared for this demand will reap the rewards. According to the research company “Research & Markets,” the global market size for recovered carbon black is projected to be \$492 million in 2023, with an estimated compound annual growth rate of 35% from now until 2030.

Klean anticipates further expansions as the demand for rCB grows with shortages in virgin carbon black, aging virgin carbon production infrastructure, emission regulations, supply chain bottlenecks, product traceability regarding raw materials and product manufacturing, and import tariffs on non-domestic carbon black production.

Klean is currently working with several of the largest global tire manufacturers, rubber, and plastic automotive parts suppliers along with numerous other supply line producers and end-users who all see the market potential and opportunity for rCB to offset both emissions and costs associated with traditional carbon black manufacturing.

Significant investments in the recovery of resources found in end-of-life tyres are underway in various markets such as Europe, the United States, and Asia which puts Klean Industries well positioned to benefit from the significant growth demand in these markets.

Recovered carbon black presents the opportunity to reduce the tire industry's reliance on petrochemicals by replacing a portion of traditional carbon black with a sustainable and circular alternative without introducing performance tradeoffs. Additionally, using recovered carbon black in new tires reduces CO2 emissions by up to 85% compared to virgin materials.

[That combined with the global issue of how to manage the growing stockpiles](#) of end-of-life tires presents an opportunity that cannot be overlooked. The Klean Team has been actively involved in working with many of the largest tire manufacturers to help these companies achieve their stated goals. A core part of Klean's intellectual property and know-how is focused on the processing of waste rubber and scrap tyres. Klean has a proven portfolio of advanced thermal technologies that transform end-of-life tires into high-quality, valuable raw materials primarily recovered carbon black and recovered fuel oil.

Klean has further reinforced its current business initiatives by coupling its manufacturing capabilities with trade finance relationships. By establishing and strengthening international trade finance relationships with the Export Development Bank of Canada and Elevate Financial Corp the company is now able to offer new and existing customers financing on competitive terms for loans to purchase plants and equipment of all sizes on approved credit ("OAC") of up to 85% both secured and unsecured depending on size and financial requirements.

### [About Klean Industries](#)

Klean Industries ("Klean") provides best-in-class technologies and solutions in the waste-to-value industry. Our international team of award-winning experts has decades of experience in designing, engineering, and manufacturing top-quality equipment to convert waste streams into valuable energy and resources. Our unique products and services are a result of combined expertise in recycling design, resource recovery, waste management, and energy generation projects. Our global project management experience secures schedules and budgets enabling projects to be completed in less time and at a lower cost.

Klean uses proprietary technologies to rapidly develop projects that produce premium fuels, recovered carbon, and green hydrogen from a variety of feedstocks. Our know-how and technical skills provide specialization in building projects using advanced thermal conversion technologies such as pyrolysis, gasification, and carbonization that transform end-of-life tires, non-recycled plastics, and municipal solid waste into domestic energy, sustainable commodities, and new clean-tech jobs. We create a symbiosis between waste, resources, and energy. Klean Industries is the link between a low-carbon, closed-loop economy, and the goal of zero waste to landfill.

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