



Fire Stone Metal's Partnership with CleanCarbon.ai: Overcoming **CBAM** Delays and Achieving Market Success

Case Study



Cleancarbon.ai



Client Overview

Fire Stone Metal Private Limited, established in 2018 in New Delhi, India, is a fast-growing manufacturer of premium-quality aluminium extrusions and profiles. Certified with ISO 9001:2015 and IATF 16949:2016, the company has rapidly scaled its operations by installing multiple extrusion presses in less than two years. Fire Stone Metal specializes in high-precision aluminium sections and profiles used across automotive, architectural, industrial, and consumer applications.

With increasing exports to the European Union, the company's aluminium products fall under the EU's Carbon Border Adjustment Mechanism (CBAM). When a 203-ton shipment of aluminium extrusions was held at EU customs due to missing CBAM documentation, Fire Stone Metal partnered with CleanCarbon.ai to resolve the immediate crisis and implement a reliable, scalable CBAM compliance system.



Business Challenges



- 1. Shipment Delay Due to Missing CBAM Report:** A 203-ton shipment of aluminium profiles and sections was detained at EU customs, risking demurrage costs, order delays, and damage to newly established European customer relationships.
- 2. Complex Supply Chain Data Collection:** Aggregating accurate Scope 1, 2, and 3 emissions data from raw material suppliers (aluminium billets/ingots) and across multiple extrusion lines, despite having up-to-date internal production records.
- 3. Supplier Engagement:** Many suppliers were new to CBAM requirements and hesitant to share detailed emissions data.
- 4. Reporting Overload:** Growing product variety and export volumes created a high number of report lines for quarterly CBAM submissions.
- 5. Timely Compliance & Carbon Cost Visibility:** Ensuring on-time submissions to avoid penalties while gaining clear visibility on embedded carbon costs for competitive EU pricing.

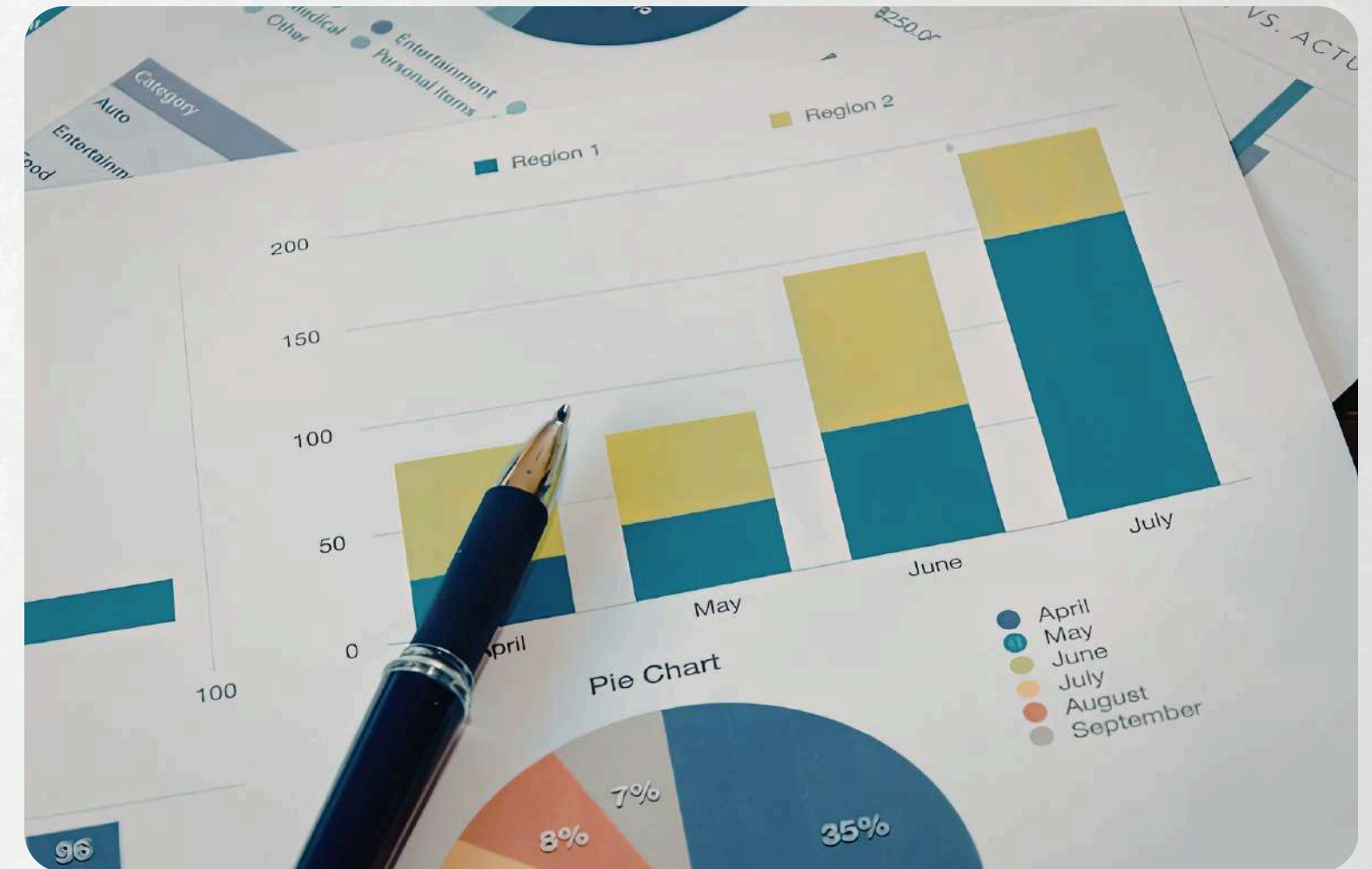
Solutions Provided by CleanCarbon.ai

CleanCarbon.ai delivered a tailored CBAM compliance solution designed for an agile aluminium extrusion manufacturer:

- **Rapid Emergency Response:** Quickly processed available production data to generate and validate a compliant CBAM report, enabling swift release of the 203-ton shipment.
- **Supplier Onboarding & Training:** Conducted focused CBAM tool demonstrations and workshops to educate suppliers, build trust, and improve Scope 1, 2, and 3 emissions data collection.
- **User-Friendly Data Platform:** Provided secure, intuitive tools (web portal + simplified Excel option) integrated with Fire Stone Metal's systems for fast and accurate supplier data submission.
- **Automated Reporting Engine:** Implemented ERP-linked automation to produce EU-compliant XML and Excel reports, significantly reducing manual effort for diverse aluminium profiles.
- **Real-Time Emissions Dashboards:** Offered live visibility into carbon emissions and costs across production batches and product lines.
- **Audit & Compliance Support:** Delivered on-field guidance, validated reports for EU audits, and GDPR-compliant data handling with precise carbon tax calculations.

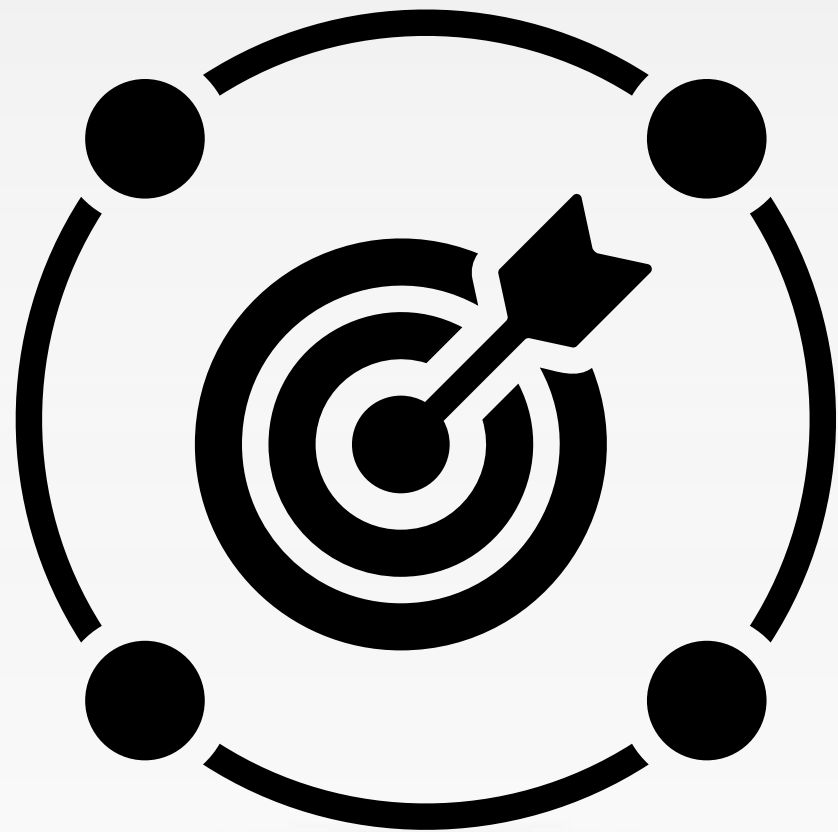
Implementation

CleanCarbon.ai executed the project over three months, starting with urgent shipment resolution. Within days, a validated CBAM report was submitted, successfully clearing the 203-ton shipment. Phase one integrated automated emissions tracking with the company's extrusion and ERP systems. Phase two focused on supplier training and demos to accelerate data flow. Phase three established fully automated quarterly reporting and real-time dashboards. Ongoing support ensured the system scaled with the company's rapid growth and new product introductions.



Result

CleanCarbon.ai significantly improved Fire Stone Metal's operations by expediting the release of a 203-ton aluminum shipment from EU customs, preventing delays and charges. Practical training and user-friendly tools increased supplier emissions data submission rates, while quarterly CBAM reporting efforts were greatly reduced. This allowed the team to prioritize production and growth over compliance paperwork, eliminating late submissions and minimizing over-declaration of emissions. The company achieved full audit readiness with validated, GDPR-compliant reports, transforming CBAM compliance into a streamlined process that supports growth in European markets.



Conclusion

By collaborating with CleanCarbon.ai, Fire Stone Metal Private Limited overcame a crucial CBAM shipment delay and created an automated compliance system, leading to cost savings, regulatory confidence, and enhanced market positioning in the EU. CleanCarbon.ai continues to assist with quarterly reporting and system optimization as Fire Stone Metal grows. For aluminium extrusion manufacturers and exporters needing CBAM solutions, CleanCarbon.ai provides a reliable path forward.



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