



HY-TECH ENGINEERS EXPANDS EU MARKET SHARE BY AUTOMATING CBAM COMPLIANCE



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Case Study

Client Overview

HY-Tech Engineers, established in 1978 and based in India, is a leading manufacturer of hydraulic fittings, including DIN-metric fittings, couplings, elbows, tees, connectors, and SAE flanges. Certified with IATF 16949 and ISO 14001, HY-Tech supplies precision-engineered components to leading OEMs in industries such as automotive, construction equipment, farm equipment, and machine tools, with exports to distributors and OEMs in the USA and European Union. The EU's Carbon Border Adjustment Mechanism (CBAM) imposed new emissions reporting requirements for materials like steel and aluminum used in their products. To maintain their competitive edge and environmental commitment, HY-Tech partnered with CleanCarbon.ai to achieve seamless CBAM compliance.

Business Challenges



- CBAM regulations mandated HY-Tech to report Scope 1, 2, and 3 emissions for steel and aluminum exports to the EU.
- Manual tracking of emissions was labor-intensive, prone to errors, and expensive.
- These inefficiencies risked delays and fines, potentially damaging HY-Tech's reputation with EU clients.
- HY-Tech required EU-compliant reports in XML and Excel formats.
- Real-time visibility of emissions and audit-ready documentation were essential to align with ISO 14001 standards.
- GDPR-compliant data handling was crucial to meet EU regulatory requirements.

Solutions Provided by Cleancarbon.ai

CleanCarbon.ai provided HY-Tech Engineers with a tailored CBAM compliance solution for their hydraulic fittings manufacturing. Key components included:

- **Expert CBAM Consulting:** CleanCarbon.ai's specialists analyzed HY-Tech's supply chain to map emissions for steel and aluminum components.
- **End-to-End Automation:** ERP-integrated tools automated emissions tracking, streamlining data collection across HY-Tech's manufacturing processes.
- **EU-Ready Reporting:** Generated validated XML and Excel reports compliant with EU CBAM standards.
- **Real-Time Compliance Insights:** Provided dashboards for instant visibility into emissions profiles, enabling proactive compliance management.
- **Audit Readiness:** Offered on-field support to ensure HY-Tech was prepared for EU audits, with GDPR-compliant data protection.

Implementation

CleanCarbon.ai implemented the solution over three months. In the first phase, they integrated automated emissions tracking tools with HY-Tech's ERP systems, leveraging their advanced manufacturing infrastructure. In the second phase, CleanCarbon.ai trained HY-Tech's team to use real-time compliance dashboards for monitoring emissions. In the third phase, validated CBAM reports were produced and submitted to EU authorities. Ongoing consultations ensured alignment with HY-Tech's ISO 14001 standards, and field support prepared them for audits.



Result



- **Cost Efficiency:** Reduced CBAM reporting costs by 40% through automation, allowing HY-Tech to focus on manufacturing excellence.
- **Full Compliance:** Achieved 100% on-time submission of EU-compliant reports, avoiding fines and shipment delays.
- **Market Advantage:** Strengthened HY-Tech's reputation in the EU's sustainability-focused markets, aligning with their ISO 14001 certification.
- **Operational Efficiency:** Freed up resources to prioritize innovation and client satisfaction, supporting HY-Tech's customer-centric approach.
- **Audit Success:** Passed EU audits with no discrepancies, supported by validated reports and robust data protection.

Conclusion

With CleanCarbon.ai's support, HY-Tech Engineers transformed CBAM compliance into a strategic advantage, maintaining their leadership in the EU market. CleanCarbon.ai's automated, expert-driven solutions delivered cost savings, regulatory adherence, and environmental credibility. For exporters navigating CBAM, CleanCarbon.ai offers a proven, affordable path to compliance. Visit cleancarbon.ai to book a consultation and streamline your CBAM journey.



+91 9529744969



[Cleancarbon.ai](https://cleancarbon.ai)



[nb@Cleancarbon.ai](mailto:nb@cleancarbon.ai)

