

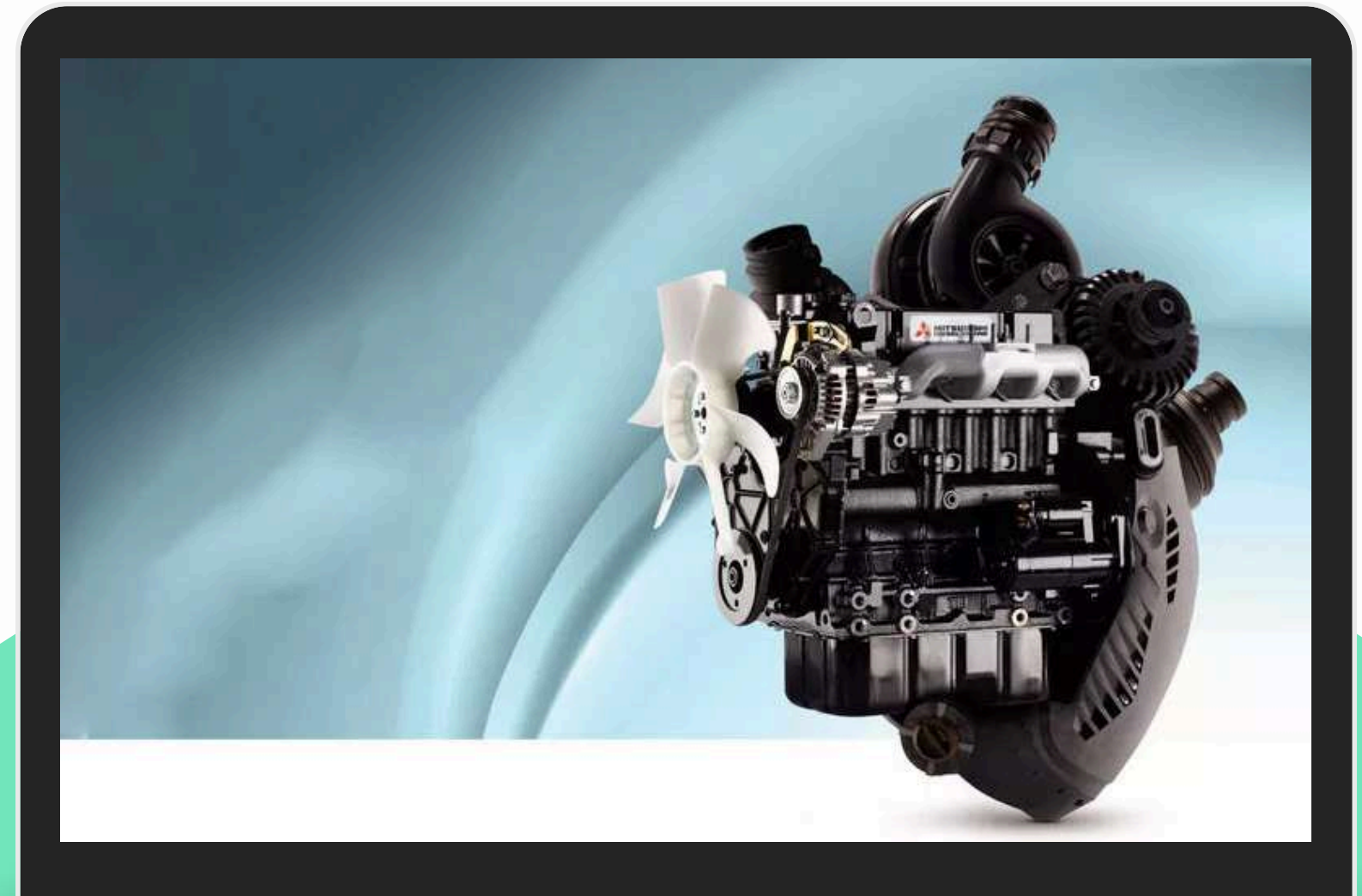


Mitsubishi Heavy Industries

Supporting Mitsubishi Heavy Industries in Achieving CBAM Compliance.



CASE STUDY





Client Overview

Mitsubishi Heavy Industries, Ltd. (MHI) stands as a globally acknowledged leader in manufacturing and engineering, showcasing expertise in power systems, industrial machinery, aerospace, and beyond. MHI has become a well-known name in the tractor industry. Renowned for its innovative approaches and sustainability efforts, MHI aimed to align with the EU's Carbon Border Adjustment Mechanism (CBAM) for its diverse range of products.

Business Challenges

Complex Operations:

Managing carbon emissions across diverse manufacturing processes and product lines.

High Energy Demand:

Addressing emissions from energy-intensive systems such as turbines and industrial equipment.

Global Supply Chain:

Integrating carbon accounting across a vast and complex supply chain.



Solutions Provided by CleanCarbon.ai

1. Comprehensive Emissions Audit:

- Conducted an extensive assessment of MHI's manufacturing operations, focusing on high-emission areas.
- Provided detailed insights into emissions across different product categories and facilities.

2. CBAM Compliance Framework:

- Developed a structured roadmap to meet CBAM requirements, including emissions monitoring, reporting, and certification.
- Integrated advanced software for automated data collection and reporting to streamline compliance efforts.

3. Energy Efficiency Optimization:

- Identified opportunities to improve energy efficiency in manufacturing processes, particularly in energy-intensive equipment production.
- Suggested the adoption of renewable energy sources and waste heat recovery systems to lower carbon intensity.

4. Supply Chain Integration:

- Integrated emissions data from suppliers into a centralized reporting system to provide a transparent view of product carbon footprints.
- Encouraged suppliers to adopt sustainable practices to align with MHI's CBAM compliance goals.

5. Cost-Effective Solutions:

- Designed a cost structure that included consulting fees, emissions reduction investments, and compliance expenses.
- Focused on achieving long-term savings through efficiency gains and reduced carbon penalties.

Result

- **CBAM Compliance:** Enabled seamless adherence to CBAM requirements, ensuring uninterrupted access to the EU market.
- **Reduced Emissions:** Achieved a substantial reduction in carbon emissions across manufacturing and supply chain operations.
- **Operational Efficiency:** Improved resource utilization and energy efficiency, resulting in lower operational costs.
- **Sustainability Leadership:** Enhanced MHI's reputation as an industry leader in sustainability and innovation.



CONCLUSION

Mitsubishi Heavy Industries' partnership with CleanCarbon.ai underscores the importance of tailored CBAM solutions in achieving compliance and fostering sustainable growth. By leveraging CleanCarbon.ai's expertise and advanced tools, MHI continues to lead in innovation while aligning with global sustainability standards.



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