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From the Blog

Medistri's Environmental Impact in Sterilization Operations

10th November 2025

Integrating Environmental Accountability into Sterilization Services

At Medistri, sustainability is managed through measurable data and verified processes. Across our sterilization, laboratory, and logistics operations, environmental performance is continuously monitored to identify opportunities for greater efficiency and emission reduction. By analyzing our processes from material sourcing to final distribution, we aim to minimize the environmental impact associated with every pallet that passes through our facilities.

Establishing Measurable Standards

First established in December 2022, Medistri's CO₂ Report was completed by an external auditor in accordance with ISO 14064 and the Greenhouse Gas (GHG) Protocol. This assessment established a quantifiable baseline for our direct and indirect emissions. With this data, Medistri became among the first Contract Sterilization Companies in the industry to measure and calculate its carbon footprint based on internationally recognized methodologies. The results enabled the creation of a new reference indicator: average CO₂ emissions per pallet sterilized.

From Measurement to Operational Insights

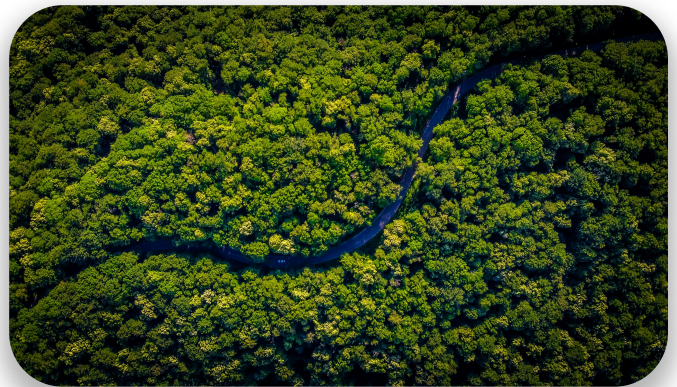
Systematic CO₂ tracking allows Medistri to objectively evaluate each stage of its processes, from energy consumption and waste management to transportation and sterilization parameters. This approach provides accurate performance indicators and supports informed decision-making when optimizing cycles or upgrading infrastructure.

The pallet-based emission indicator provides transparency to our partners by quantifying the environmental cost of each sterilization batch. It also enables internal benchmarking between technologies, production areas, and logistics routes.

Quantifying our environmental impact allows Medistri to integrate sustainability directly into its operational model. Measuring the carbon footprint per pallet establishes a traceable link between industrial performance and environmental responsibility, ensuring that efficiency and sustainability progress together.

To learn more about our EO Sterilization Services and environmental performance initiatives, visit our website [here](https://www.medistri.com) or contact our team at contact@medistri.com.

— The Medistri Team



Medistri's 2024 CO₂ Report: Continuous Improvement and Verified Progress

The initial CO₂ Report served as the foundation for ongoing analyses and targeted improvements.

In 2024, Medistri's CO₂ Report was published, achieving a 7% reduction in CO₂ emissions per pallet, decreasing from 27 kg to 25.2 kg.

This reduction reflects the effectiveness of initiatives such as:

- Optimization of EO sterilization cycles to reduce energy and gas use.
- Implementation of emission control technologies, including catalytic burners and energy recovery systems.
- Reinforcement of logistics planning to reduce transportation-related emissions.

These developments are documented in the 2024 Carbon Emissions Report, which aligns exclusively with Medistri's operations in Switzerland.