

Product Carbon Footprint: Methanpol (1.0 kg)

Total PCF (kg CO₂e)

2.654

Carbon Intensity

2.654 kg CO₂e/kg

Top Emission Hotspot

Raw Materials

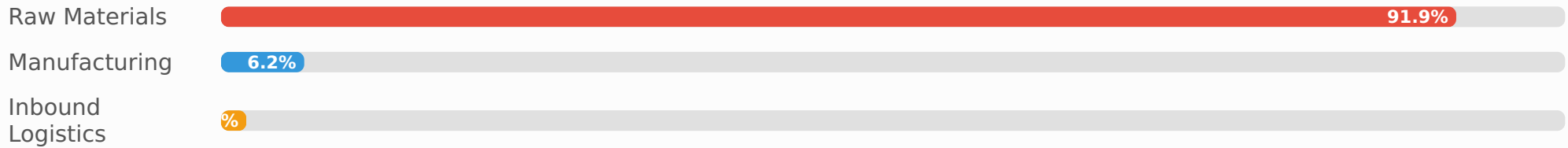
Production Country

Germany

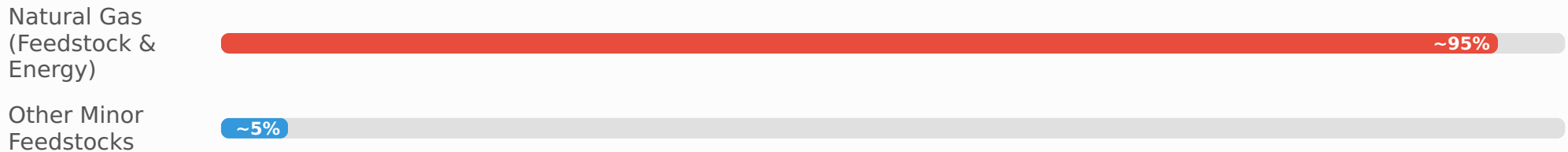
System Boundary

Factory-Gate

Lifecycle Stage Breakdown



Material Carbon Impact



*Based on the report, natural gas is the primary raw material and energy source in raw material acquisition and processing.

Key Insights

- ❑ Natural Gas dominance: Raw Material Acquisition & Processing, driven by natural gas as both feedstock and process energy, accounts for approximately 91.9% of the total carbon footprint.
- ❑ Energy as a secondary hotspot: Manufacturing electricity consumption is the second largest contributor (6.2%), indicating energy efficiency and renewable sourcing are important.
- ❑ Audit-ready approach: The PCF is quantified adhering to ISO 14064-1 principles, ensuring a systematic and transparent approach, critical for audit-readiness.

Action Plan for Reduction

- **Feedstock Decarbonization:** Explore sourcing lower-carbon natural gas (e.g., biomethane) or investigating alternative feedstocks.
- **Energy Efficiency:** Implement targeted energy efficiency measures within the manufacturing plant to reduce electricity and natural gas consumption.
- **Renewable Energy:** Transition the German manufacturing facility to renewable electricity sources through Power Purchase Agreements or on-site generation.
- **Supplier Engagement:** Collaborate with upstream natural gas and chemical suppliers to actively reduce their carbon footprints.
- **Verification:** Pursue independent third-party verification of the report in accordance with ISO 14064-3 to enhance credibility and meet audit requirements.

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