

LCA Report - Steel LCA Analysis

Generated: 12/9/2025

Executive Summary

Carbon Emissions: 1862 kg CO₂e

Energy Consumed: 9657 MJ

Water Use: 3668 L

Circularity Index: 65%

Process Configuration

Material Type: Steel

Electricity: 1400 kWh

Fuel Type: Diesel

Fuel Energy: 5040 MJ

Transport Distance: 986 km

Transport Mode: Rail

Recommendations

1. Consider rail or ship transport for long distances