

Bittimaatti Oy – ENVIRONMENTAL IMPACT REPORT 2025

Reporting Period: 1.1.2025 – 31.12.2025

Reporting Standard: GHG Protocol (Scope 1, 2, and 3)

Purpose: Sustainability reporting in accordance with the MiCA Regulation and stakeholder communication

1. INTRODUCTION

This report describes the carbon footprint of Bittimaatti Oy's operational activities for the fiscal year 2025. The report covers the company's direct emissions (Scope 1), purchased energy (Scope 2), and the most significant value chain emissions (Scope 3), which include the operated cryptocurrency ATMs and related blockchain transactions.

2. TOTAL EMISSIONS SUMMARY

The company's total emissions in 2025 were **667,467.62 kg CO₂** (approx. 667.5 tonnes). The emissions were distributed as follows:

Emissions Category	Source	Emissions (kg CO ₂ e)	Share (%)
Scope 1	Direct Emissions (Vehicles)	1,545.69	0.23 %
Scope 2	Purchased Energy (Premises)	968.40	0.15 %
Scope 3	Value Chain (Cryptocurrency Operations)	664,953.53	99.62 %
TOTAL		667,467.62	100.00 %

3. EMISSION CATEGORY REVIEW

3.1 Scope 1: Direct Emissions (Transport)

Emissions caused by the diesel fuel consumption of the service vehicle managed by the company.

- **Fuel Type:** Diesel
- **Consumption:** 585.49 litres
- **Emissions:** 1,545.69 kg CO₂

3.2 Scope 2: Purchased Energy (Premises)

Energy consumption of the office (45 m²) including electricity and heating.

- **Building Electricity:** 1,350 kWh (120.15 kg CO₂)
- **District Heating:** 5,850 kWh (848.25 kg CO₂)

- **Total: 968.40 kg CO2**

3.3 Scope 3: Value Chain Emissions (Cryptocurrency Services)

This category includes the electricity consumption of the operated ATMs and the calculated emissions from blockchain networks based on realized transactions.

3.3.1 ATM Electricity Consumption

The company operates 15 ATMs, with a total annual electricity consumption of approximately 2,761 kWh.

- **Emissions from Equipment Electricity Consumption: 110.45 kg CO2**

3.3.2 Transaction-based Network Emissions

A total of **1,175 transactions** were executed in 2025. Emissions are calculated according to the energy intensity of each network (BTC, LTC, ETH).

Currency	Number of Transactions	Unit Emission (kg)	Total (kg CO2e)
Bitcoin (BTC)	933	710.00	662,430.00
Litecoin (LTC)	134	18.00	2,412.00
Ethereum (ETH)	108	0.01	1.08
Total	1,175		664,843.08

4. ANALYSIS AND DEVELOPMENT MEASURES

The report indicates that the company's carbon footprint consists almost entirely (99.6 %) of emissions caused by the Bitcoin network's verification mechanism (Proof-of-Work). The company's own operational emissions (equipment, premises, and vehicle) are very low in relation to the mediated transactions.

Future Goals:

1. **Technology Choices:** We encourage customers to switch to lower-emission blockchains (such as Ethereum), where emissions per transaction are over 99 % lower.
2. **Renewable Energy:** An effort to ensure that the electricity contracts for ATMs and premises are based on 100 % renewable energy.
3. **Compensation:** The company is assessing the possibility of compensating for its direct Scope 1 and 2 emissions during 2026.

5. CALCULATION BASIS AND SOURCES

- **Transaction Factors:** Based on international indices (Digiconomist, CCRI).

Ympäristövaikutusraportointi Bittimaatti

- **Electricity and Heating:** Calculated according to average emission factors and realized floor area/consumption.
- **Vehicle:** Calculated according to the realized volume in litres and the standard diesel factor (2.64 kg/l).

Johan Moilanen

Johan Moilanen 2026-01-15




CEO Bittimaatti Oy

Audit trail

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