



CO2 Performance Ladder recertification 2025

Fastned Value Chain Analysis

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Owners:

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Purpose: This document summarizes Fastned's value chain to fulfil the CO2 Performance Ladder certification's requirements. Please note, this document is not intended to be CSRD-compliant

Step 1: Direct relationships

Upstream (top 50% of CAPEX expenditure*):

- Charging equipment manufacturers
- Electrical services (infrastructure/grid connection/installation)
- Substructure
 - Construction subcontractors (EcoCare, others)
 - Materials (incl. concrete for foundations)
- Superstructure
 - Construction subcontractors
 - Materials (incl. steel for canopies)

*We selected CAPEX instead of operational spend, as CAPEX has a direct influence on Fastned's footprint. Operational spend included procured energy sold to customers, grid connection providers, bond mailers and other items that were not in scope of Fastned's CO2 footprint calculations.

Link to activities:

- Electrical services/Substructure/Superstructure → Activity 1 (Construction)
- Charging equipment manufacturers → Activity 2 (Charging equipment procurement)

These upstream suppliers collectively represent >80% of Fastned's total CAPEX expenditure in 2024. They are analyzed in Steps 2–5.

Please note that multiple suppliers are grouped into the categories of “substructure” and “superstructure.” For the sake of this exercise, we focus on suppliers in our value chain that not only supply us with materials and services of significant financial value, but also suppliers whose materials/services contribute significantly to Fastned's CO2 footprint.

Downstream (top 50% of revenue):

- B2C customers (individual EV drivers) – largest revenue source
- eMSPs (via roaming agreements)
- Potential: Location-specific contract (if material)

Link to activities:

- All → Activity 4 (Use of sold electricity)

B2C customers and eMSPs collectively represent >80% of revenue, with the top two representing >50%.

Step 2: Mapping

Construction value chain: Raw materials (cement/steel production) → Material suppliers (concrete suppliers, steel mills) → Construction subcontractors (EcoCare and others) → Fastned station construction → Station operation → End-of-life and dismantling

Emission sources: Cement production (CO₂-intensive), steel manufacturing, transport, on-site construction equipment

Equipment value chain: Semiconductor/electronics/cables manufacturing → Component suppliers → Charger manufacturers → Fastned procurement/installation → Station operation → Charger recycling

Emission sources: Energy-intensive manufacturing, rare materials extraction, transport

Step 3: Emissions allocation (FY 2024)

Construction (Activity 1):

- Foundations: 7.2% (e.g. concrete suppliers)
- Canopy structure: 9.1% (e.g. steel and lumber suppliers)
- Canopy cover: 5.1% (e.g. steel suppliers)
- PV system: 7.6% (PV panel suppliers)
- Civil works: 19.2% (e.g. subcontractors and grid connection work)
- Construction operations: 19.4% (e.g. subcontractors)
- **Total construction: 67.7%**

Equipment (Activity 2):

- Chargers: 31.1% (e.g. EV charging manufacturers)
- Cables: 1.2% (e.g. EV charging manufacturer suppliers – in their value chain)
- **Total equipment: 32.3%**

Total per station: 100%

Step 4: Most relevant partners

As this is Fastned's first CO₂ Performance Ladder certification using the new handbook (and therefore, new approaches), Fastned identified suppliers/service providers as our "most relevant partners" who are ...

- Key, longstanding suppliers
- In close proximity to Fastned's headquarters
- Also participating in the CO₂ Performance Ladder (EcoCare)
- Considered frontrunners in their industry
- Keen to collaborate and innovate

High reduction potential:

- Concrete supplier: Low-carbon concrete alternatives
- EcoCare: Electric construction equipment
- EV charger manufacturer: Optimized charger design, manufacturing efficiency, component sourcing

Medium potential:

- Steel suppliers: Recycled steel content

Step 5: Reduction opportunities

Short-term (1–3 years):

- Foundation optimization: 20–30% material reduction (Activity 1, scope 3)
- Electric construction equipment pilots (Activity 1, scope 3)
- Recycled/refurbished materials testing (Activity 1, scope 3)
- Charger procurement criteria including carbon footprint (Activity 2, scope 3)

Medium-term (3–10 years):

- Low-carbon concrete transition: 30–50% reduction potential (Activity 1, scope 3)
- Circular station designs: full material reuse (Activity 1, scope 3)
- Next-gen high-efficiency chargers (Activity 2, scope 3)
- European manufacturing for key components (Activity 2, scope 3)

Negative effects assessment: Minimal. Sustainable materials may have a slight cost premium impacting margins short-term, but no rebound effects expected in other scopes.