

Methodological note – CO2 Avoided

The Greenhouse Gas Equivalence Indicator (sometimes referred to as the “Avoided Emissions Calculator”) was estimated by comparing two alternative scenarios with the same transport service (ton*km): rail scenario (train) and road scenario (taken as the baseline).

The emission factors (kg CO₂eq/ton*km) entered were taken from the Service Carbon Footprint studies developed according to ISO 14067:2018, and according to PCR "EPD 2023:06, v.1.0.1, Transport Services", with a consistent methodological approach (functional unit, system boundaries and assumptions) between the two scenarios.

The analysis adopts 1 t*km (tonne of goods transported per kilometre) as the shared functional unit, and 2024 as the reporting year.

By assuming the same ton*km for both train and road transport, the estimated emission difference is calculated as:

- $\text{Avoided emissions} = (\text{EF}_{\text{road}} - \text{EF}_{\text{train}}) \times \text{ton*km}$.
- EF_{road} : Road transport emission factor resulting from the Carbon Footprint Study ISO 14067, reporting year 2024
- EF_{train} : Rail transport emission factor resulting from the Carbon Footprint Study ISO 14067, reporting year 2024

The estimate is contextualised as a comparative assessment against a baseline, and is presented separately from verified/certified CFP results. It does not constitute a direct reduction in own emissions nor their offsetting.

The comparison is static and based on average factors. It does not take into account specific operational variations or dynamic market scenarios related to individual shipments.

The methodology adopted is consistent with good European practices on environmental communication.

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Iscritta al Registro delle Imprese di Roma
Cod. Fisc. e P.IVA 03611161005 – Numero R.E.A. RM – 677481

