

Statement

CARBON FOOTPRINT – AMBER PREPRINT

The purpose of a carbon footprint is to give information about the emissions of greenhouse gases (expressed as CO₂ equivalents) originating from the production, transportation and use of a specific product during its life cycle.

Paper is a product that in respect to low impact on climate change has many advantages. The main raw material for paper is wood, which is a renewable resource that uptake and binds CO₂ when the forests grow. Paper products also have the advantage that no energy is consumed during the usage phase. The paper can be recycled many times and at the end of its life cycle it is often used as a fuel to produce energy.

Full life cycle analyses are however complicated to do. In order to make the calculations a number of system boundaries, estimations and simplifications need to be set. The result will depend on the choices one have made and is therefore not reflecting an absolute truth.

To be able to present reliable and comparable data, Arctic Paper has chosen to report the CO₂ emissions from production of pulp and paper according to two well defined and recognized standards (Paper Profile¹ and WWF Paper Scorecard²). As an indication of the CO₂ emissions originating from transport of paper, data calculated with the help of NTM basic freight calculator³ are given for three typical destinations. The intention of this carbon footprint declaration is not to present a full life cycle analysis for the product, but to inform about the emissions of fossil CO₂ originating from the production of pulp and paper as well as indicate the magnitude of CO₂ emissions related to transport of paper. Internally performed assessments have indicated that this somewhat simplified analysis, in general covers 80-90% of the emissions calculated by other commonly used models.

Emissions related to pulp and paper production:

- According to Paper Profile standard: 617 kg CO₂/ton paper

Or

- According to WWF Paper Scorecard standard: 646 kg CO₂/ton paper

Emissions related to transport, given as three typical destinations:

- From Kostrzyn mill to Łódź, Poland: 15 kg CO₂/ton paper

- From Kostrzyn mill to Eisenach, Germany: 17 kg CO₂/ton paper

- From Kostrzyn mill to Bourges, France: 50 kg CO₂/ton paper

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Notes:

- 1) Does not include CO₂ emissions from purchased electricity. www.paperprofile.com
- 2) Includes CO₂ emissions from purchased electricity. www.panda.org
- 3) The Network for Transport and Environment, www.ntmcalc.se