Eucafluff[®] carbon footprint

Suzano's eucalyptus fluff emits 30% less carbon into the atmosphere than American pine fluff



DIRECT CO

EMISSIONS:

kg CO, eq./ton of eucafluff®

30% less GHG emissions in

produced from pine in the

comparison with Pinus Fluff

this value represents

Southeast of the USA

CARBON **REMOVED BY THE EUCALYPTUS FOREST:** -1630

kg CO, eq./ton of eucafluff®

Estimation of biogenic carbon content in the product. This carbon was removed by the forest and remain stored in the cellulose. It should be noted that part of this carbon can return to atmosphere due to the degradation of cellulose in landfill or incineration

EUCALYPTUS +46 PLANTED FOREST

Direct emissions:

(i) from fertilizers application, specially nitrogen fertilizers; and (ii) burning diesel for forest operation

Indirect emissions: derived from life cycle inputs such as diesel, fertilizers and pesticides

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+70

kg CO, eq

11%

WOOD

TRANSPORT

Direct emissions:

from burning fuel in

pulp and paper mills

Indirect emissions:

trucks, rail or barge to

transport the wood to the

Derived from fuel life cycle

+256 kg CO., eq. 40%

site of pulp production

in the same

FLUFF

Direct emissions:

Burning natural gas and fossil fuel to steam generation

Indirect emissions:

Derived from life cycle of natural gas and the inputs consumed at fluff pulp production. Emissions from purchased electricity and the proportional amount of inputs consumed in ETA and ETE are also considered

PULP MILL

Direct emissions:

From fossil fuel burned in boilers and causticizing process

Indirect emissions:

Derived from life cycle of the inputs consumed in the pulp production and from emissions of purchased electricity

energy and chemical recovery cycle at the pulp mill

MACHINE +272kg CO., eq. 42%



Over the 7 year of growth the eucalyptus trees are capable of stocking high amounts of CO, from the atmosphere

> Eucalyptus planted in São Paulo state. Brazil with sustainable environmental and social practices

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Final considerations:

Carbon emissions and biogenic carbon are not comparable. Therefore, the biogenic carbon removed presented in this product cannot be added to or subtracted from fossil carbon emissions at this product stage

What is a Life Cycle Assessment (LCA)?

Compilation and evaluation of the inputs, outputs and the potential environmental impacts of a product system throughout its life cycle. LCA addresses the environmental aspects and potential environmental impacts throughout a product's life cycle from raw material acquisition through production, use, end-oflife treatment, recycling and final disposal (ISO 14044). At Suzano, we are constantly concerned with developing products with the least possible environmental impact, from the tree and through this, provide part of the solutions for society's challenges

What is a carbon footprint (CF)?

Sum of greenhouse gases (GHG) emissions and GHG removals in a product system throughout its life cycle, expressed as CO_2 equivalents (CO_2 eq.) and based on a life cycle assessment (ISO 14067). The GHG indicators presented in this infographic were extracted from an LCA study developed by Suzano, reviewed by a third party (KPMG) and in accordance with ISO 14040 and ISO 14044

What is biogenic carbon?

The carbon removed from the atmosphere and stored in organic material (not fossilized), such as trees. The most typical form of atmospheric CO_2 removal is due to biogenic uptake during photosynthesis



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

In 2021 Suzano joined the Science Based Target Initiative (SBTi) and will establish a target aligned with the 1.5° scenario (the most ambitious). Such effort will cover its own emissions and the value chain emissions. It is worth mentioning that the Company's current decarbonization target is science-based



Suzano has one of the lowest emission intensity indicators of the sector according to the Transition Pathway Initiative (TPI). The TPI is a global, asset-owner led initiative which assesses companies' preparedness for the transition to a low carbon economy