

CARBON FOOTPRINT STATEMENT

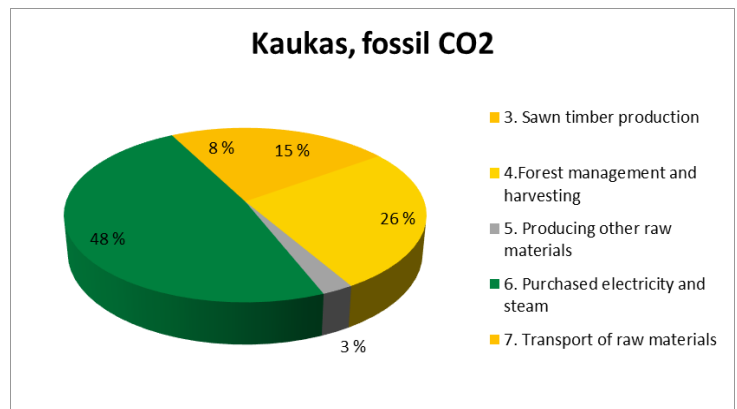
Company	UPM Timber
Site	Kaukas sawmill
Products	Sawn timber, red wood

Information gathered 1.1.2019 – 31.12.2019

Carbon Footprint

- UPM calculates the carbon footprint of its timber products on the basis of the 10 elements of the Carbon Footprint Framework for Paper and Board Products developed by CEPI (the Confederation of European Paper Industries). Detailed information on the CEPI Framework can be found at www.cepi.org.
- The data used in the calculation are based on annual averages for a mill.
- GHG = greenhouse gas. UPM figures refer only to emissions of fossil CO₂.

Note that wood products are biogenic CO₂ stores and can replace fossil fuels in energy production at the end of their life cycle.



1 m³ of this product contains 220 kg of carbon, equivalent to 805 kg of CO₂. Therefore, if this product remains in use or is stored for 100 years, this is equivalent to locking away and storing 805 kg of CO₂.

Ten elements of the CEPI Framework (See next page for remarks and explanations)	Fossil CO ₂ (kg/m ³ of sawn timber)	Biogenic CO ₂ (kg/m ³ of sawn timber)
1. Carbon sequestration in the forest		-
2. Carbon stored in the product		805
Net sequestration of biomass carbon		805
3. GHG emissions from sawn timber production	3.3	
4. GHG emissions associated with producing wood material	5.8	
5. GHG emissions associated with producing other raw materials	0.5	
6. GHG emissions associated with purchased electricity and steam	10.7	
7. Transport-related GHG emissions (excl. delivery to customer)	1.7	
Total fossil CO₂ emissions	22	
8. GHG emissions attributable to product use	-	
9. GHG emissions attributable to end-of-life-management of products	-	
10. Avoided emissions	-	

Equivalent figures for applications with a life span of less than 100 years are available on request.

Remarks and explanations to the ten elements of CEPI Framework

1. Carbon sequestration in the forest

- In line with the CEPI Framework, carbon sequestration is currently not included in product level carbon footprint calculations.
- For UPM, forest certification and traceability of wood raw material supply using certified Chain of Custodies ensures the sustainable management of forests, and the long-term sequestration of carbon in them via the process of photosynthesis.

2. Carbon stored in the product

- Biogenic carbon is stored in products produced from wood. The IPCC (International Panel on Climate Change) formula is used to determine the amount of CO₂ that is stored in the sawn timber.

3. GHG emissions from sawn timber production

- UPM includes data on fossil CO₂ emissions from combustion of fossil fuels at sawn timber manufacturing facilities.

4. GHG emissions associated with generating the supply of wood

- Includes fossil CO₂ emissions from forest management and harvesting activities.

5. GHG emissions associated with producing other raw materials

- Includes fossil CO₂ emissions generated during the manufacturing of non-wood-based raw materials (e.g. chemicals which are used in an amount above 1 % per m³ of sawn timber) and fuels used at mill site.

6. GHG emissions associated with purchased electricity and steam

- Includes fossil CO₂ emissions associated with purchased electricity, steam and heat used for sawn timber production.
- Due to differences in fuel mix used to produce electricity there are significant differences in the emission factors used to convert grid electricity to its equivalent CO₂. UPM uses source and country specific emission conversion factors.

7. Transport-related GHG emissions

- Includes fossil CO₂ emissions associated with inbound transports of raw materials and final products from the mill, along the value chain.
- At UPM, this figure includes the transportation of wood, chemicals and fuels to UPM mills. CO₂ emissions from wood transports are allocated mass based among products and by-products.
- CO₂ emissions from transportation of sawn timber to the customer are not included since this depends on the transportation modes used and distances to specific customer locations. This part of the element can be calculated for a specific case on request.

8. GHG emissions attributable to product use

- This element is not included within UPM's scope as a sawn timber manufacturer.

9. GHG emissions attributable to end-of-life-management of products

- This element is not included within UPM's scope as a sawn timber manufacturer.

10. Avoided emissions (e.g. superior energy efficiency or carbon offsetting measures)

- This element is not currently included in UPM's scope.

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