



Sustainability

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Sustainability at Maler

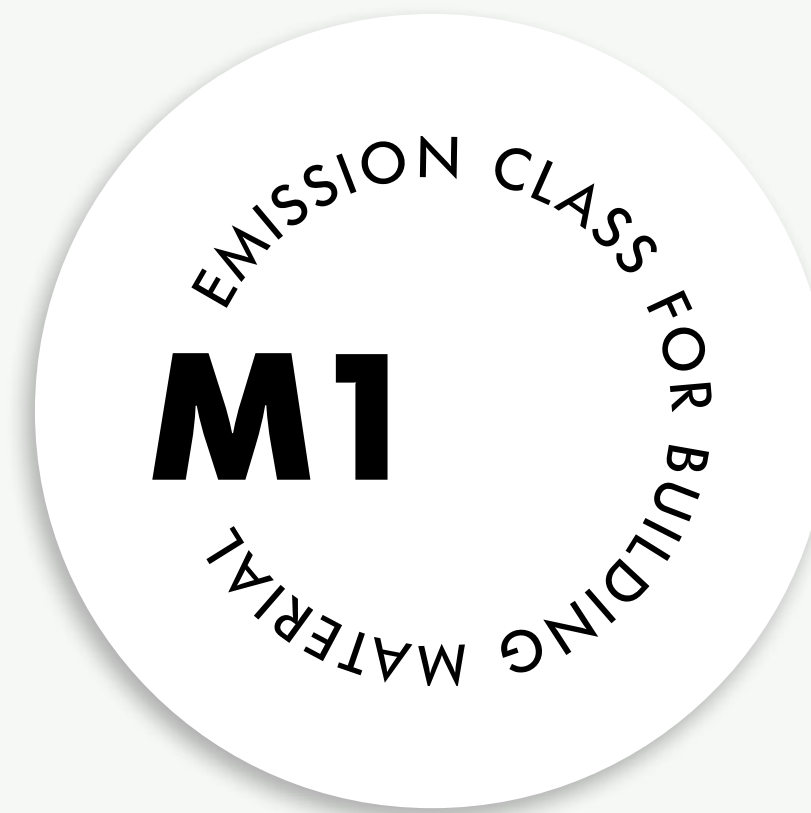
Sustainability is one of the core values of Maler. We strive to be a frontrunner in controlling the carbon footprint of our factory.

To achieve this goal, in the spring of 2023 we began co-operating with Green Carbon to calculate the emissions caused by our work. The emission inventory was finished in late 2023.

Based on the GHG protocol, this emission inventory will provide our customers with concrete data on our carbon footprint, helping them make conscious, sustainable decisions.

After the initial calculation of emissions has been completed, our co-operation with Green Carbon is set to continue. In the future our goal is to be able to keep monitoring the carbon footprint of our operations and products. The carbon footprint of a singular product can be measured via EPD calculation.

A summary of the results of Green Carbon's emission inventory can be found at the end of this document.



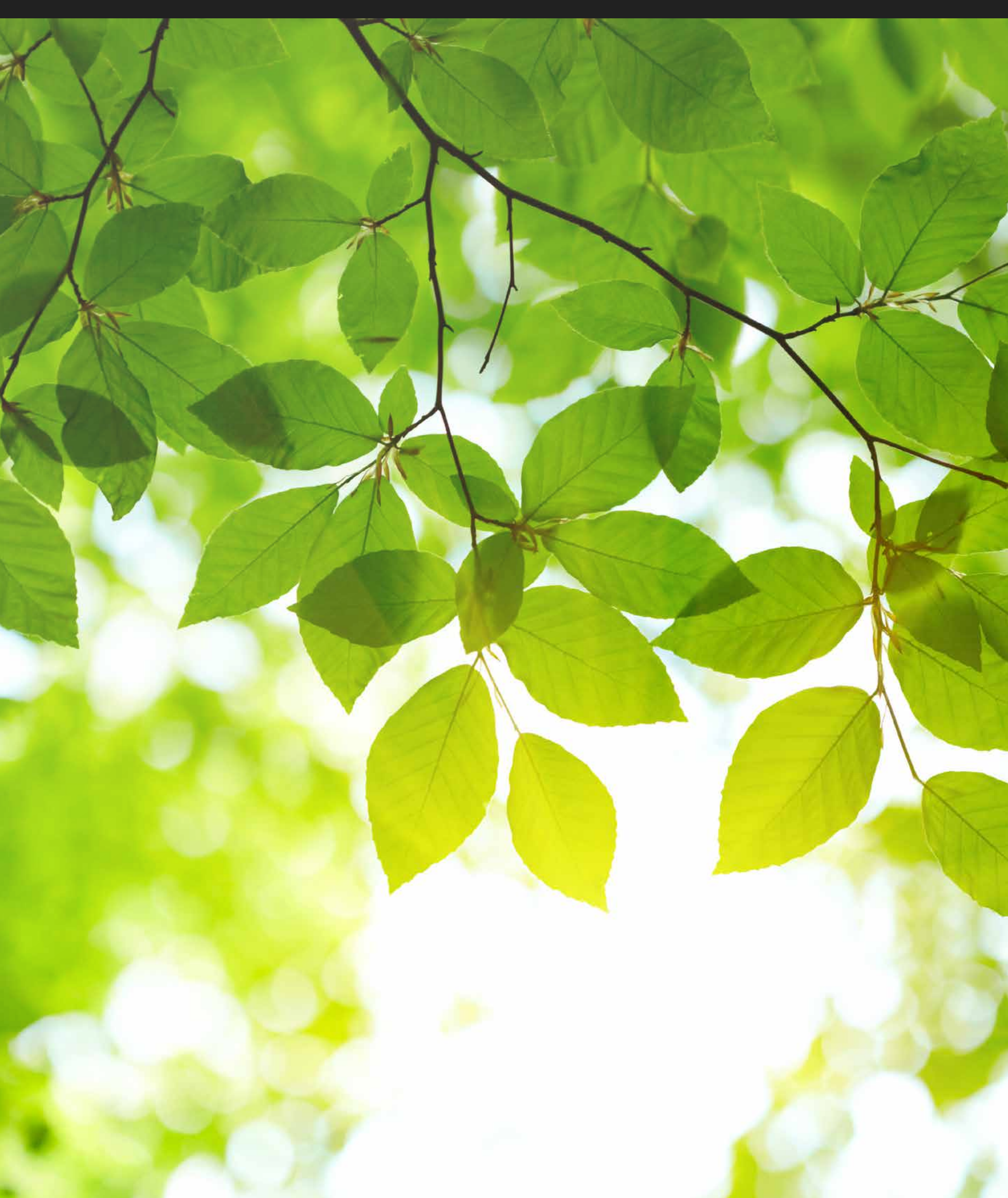
Product quality

We ensure the quality of our products by using safe, top of the class materials.

Our MDF, HDF, and coated wooden products meet the emissions standard E1 and have the M1 certification of good indoor air quality. Additionally, the materials used are PEFC™ or FSC® certified.

We have also launched two new, healthier product families. E0 products contain less formaldehyde than ever before, whereas Safe Sensitive product family is suitable for individuals with allergies and sensitivities.

The wood used in our products is Finnish, and PEFC™ or FSC® certified. Our wooden panels are CE marked. The materials of our wooden products have designated quality standards, that guide the allowed properties of each different wood material type.



Safe Sensitive product family

Home should be a place where we can live and breathe safely. While mold might be the best-known culprit affecting indoor air quality, it's important to note that it's not the only factor. Practically everything around us, from textiles to building materials, can be a source of harmful emissions. These emissions in the air we breathe can have a detrimental effect on the quality of life for those who are extra sensitive or allergic, and they can lead to health problems down the road even for healthy individuals.

The new Safe Sensitive product family from Maler represents a breakthrough in the field of interior construction. Extensive research and development efforts have resulted in a product where the amount of emissions released into the air has been reduced to such a low level, that even individuals with allergies and sensitivities can confidently use them in their home construction. As a result of this innovation, the Finnish Allergy, Skin, and Asthma Federation has granted Maler's Safe Sensitive product family their Allergy Label – the first of its kind for interior panels and mouldings.



E0 – the healthier indoor construction product family

Maler's E0 product family is a series of interior construction products, that allow you to add finalizing touches to your home and office without compromising your health.

As a result of our innovative design work, the E0 products contain less formaldehyde and other harmful emissions than ever before, due to their special coating.



Accountable useage of wood

The wood used in the production of our wooden mouldings and panels is PEFC™ or FSC® certified birch and pike.

PEFC™ and FSC® are international forest certification programmes, that aim to advance ecologically, socially and economically sustainable forestry for generations to come. These certificates ensure that the wood used in our products comes from supervised and sustainably tended forests.



Sustainability in coatings

We have emphasised sustainable and eco-friendly solutions in our coatings. For this reason, the paints, varnishes and wood stain we use are eco-friendly, water-soluble and dissolvent-free.

These materials – paints, glues and coating films – don't produce hazardous waste, carbon dioxide emissions, or VOC emissions.



Packaging materials

We attempt to take the ecological effects into account in our packaging material usage. Our suppliers have also pledged to use materials that support sustainable development. Most of the packaging materials used at our factory are made from recycled and renewable materials.

So far, we have found polythene film to be the most complete solution for our packaging needs. The packaging serves multiple purposes: it protects the product, informs the customer of the properties of the product, and reduces the amount of unwanted waste.

Additionally, this packaging method is material efficient. Shrink-wrapping is done with minimum amount of material needed, and compact packaging saves room during transport.

Our packaging also contains cardboard which is manufactured from Finnish wood. Our packaging materials are suited for recycling or waste-to-energy use. They can also be recycled via combustion.



Work worthy of the Key Flag Symbol

The Association for Finnish Work has awarded Maler Oy's MDF mouldings and panels, and our wooden mouldings and panels the Key Flag Symbol as a mark of products manufactured in Finland.

The Key Flag Symbol is a mark of Finnish work. The symbol can be granted to a product that is manufactured in Finland. Additionally, the portion of Finnish expenses, from the overall expenses of the product, must be at least 50 %. When calculating this, all costs and expenses are considered.



The ecological impact of our factory

Our factory is situated in Ylivieska, Northern Ostrobothnia, Finland. Our goal is to use our raw wood material as efficiently as possible. Excess material, left over from production, is put into use elsewhere or turned into energy. This is one of the reasons we are almost completely energy self-sufficient. Our factory is heated using 100 % renewable bioenergy.

Our waste management is arranged in an ecologically responsible manner. All combustible wooden waste – be it filings, chips, platforms, supports etc. – is put into use, either in production of briquets and pellets, or as a source of energy. Metal waste is recycled, energy waste is baled and used as combustion energy source. Our goal is to minimize the amount of waste we can't recycle ourselves and that would need to be processed by waste management.



Neighbouring areas and their inhabitants

Since our factory is situated only 1 kilometre away from the Ylivieska city centre, we must consider the surrounding areas and their inhabitants – both humans and animals.

We have taken multiple actions to “soundproof” our factory site, to reduce the amount of noise pollution. Incoming and outgoing logistics are designed to avoid going through the neighbouring residential areas. These measures have led to Maler Oy being awarded a local environmental award for our efforts taken in developing the area.

Ever since the year 2008 our factory has been using eco-friendly, water dissolvent products in our materials and coatings. This ensures that our customers get to enjoy low-emission products, and that the nearby residents don't have to suffer from excessive noise or environmental problems.



Sustainability goals

- Our goal is to reduce our emissions by 30 % in the next 3–5 years. This is achieved by further developing our waste management and recycling processes and increasing the ratio of renewable sources in delivered energy.
- Additionally, we plan to increase the level of our energy self-sufficiency by constructing our own solar power plant, among other measures.
- In the future, our goal is to develop our production and end products to be even more eco-friendly.
- Going forward we will also require more transparency and concrete actions in matters of sustainability from our partners.



GreenCarbon

Emission inventory

Maler Oy – Carbon footprint 2022



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Background information

Maler Oy has accounted the climate impacts of its own operations and value chain by calculating the company's carbon footprint for 2022.

The emission inventory was conducted in accordance with the GHG Protocol Corporate standard and Corporate Value Chain standard. All emission sources that are applicable are taken into account. Aim of the first emission inventory was to clarify the emission sources and their share of the total emissions to enable efficient emission reductions.

In addition to the emission inventory, a list of measures to reduce the carbon footprint was compiled. Maler Oy will implement these measures in its future operations.



Inventory boundary

Emission inventory takes into account emissions from the entire value chain (Scope 1, 2 & 3), including following emission sources:

Scope 1

- Mobile combustion

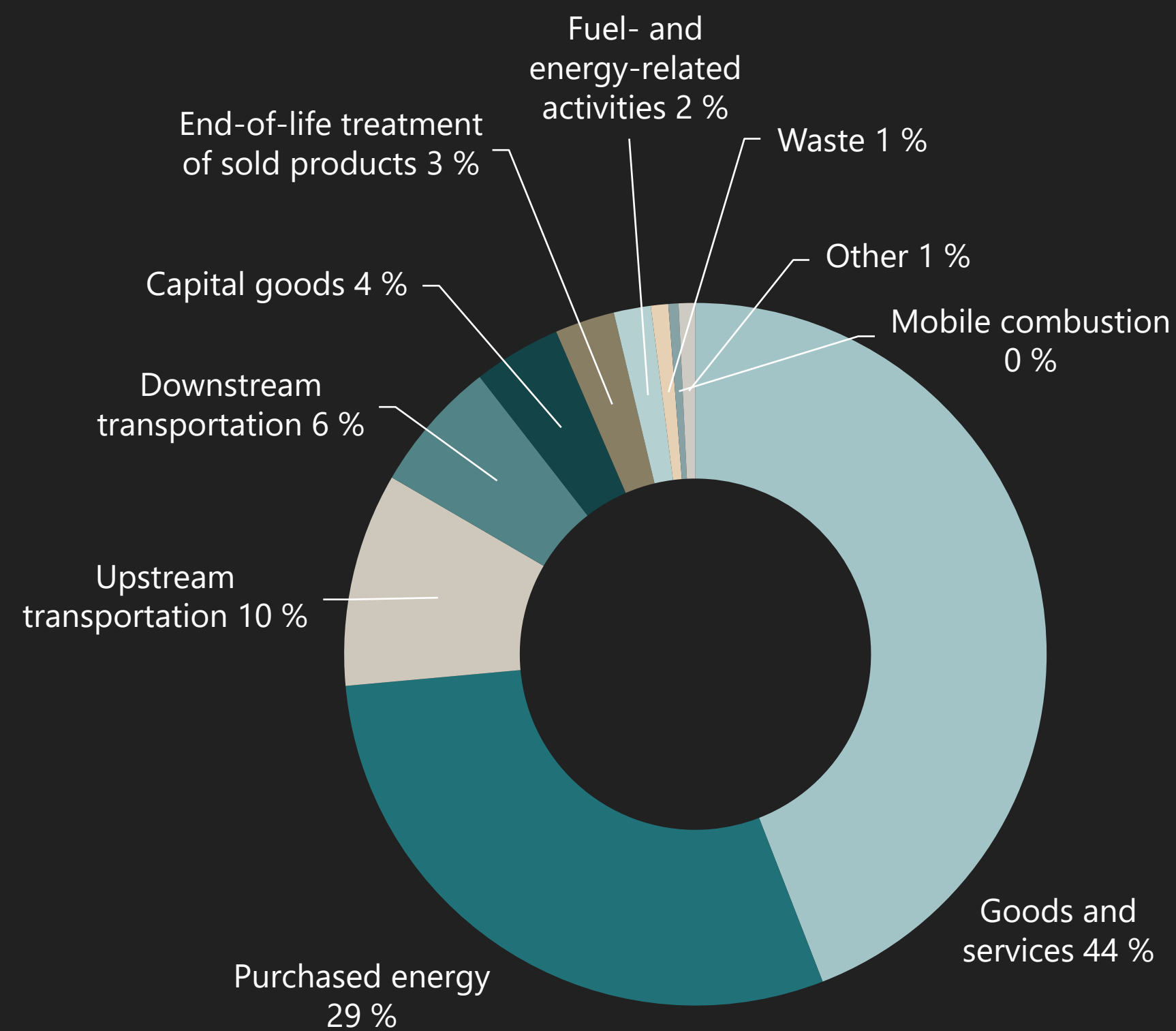
Scope 2

- Electricity
- District heating

Scope 3

- Purchased goods and services
- Capital goods
- Fuel- and energy-related activities
- Transportation and distribution
- Waste generated in operations
- Business travel
- Employee commuting
- End-of-life treatment of sold products
- Downstream leased assets

Annual emissions 8024 t CO₂e



100 t CO₂e

Carbon footprint /
employee

355 t CO₂e

Carbon footprint /
turnover M €

Maler carbon footprint 2022

		Emissions t CO ₂ e	%-share of emissions
Scope 1	Fuel combustion	37,22	0%
	In total	37,22	0%
Scope 2	Electricity	2351,23	29%
	District heating	12,94	0%
	In total	2364,17	29 %
Scope 3	Purchased goods and services	3538,45	44 %
	Upstream transportation and distribution	788,75	10 %
	Downstream transportation and distribution	488,45	6%
	Capital goods	323,80	4%
	End-of-life treatment of sold products	220,92	3%
	Other energy-related emissions	136,61	2%
	Waste generated in operations	64,26	1%
	Employee commuting	36,53	0%
	Business travel	22,09	0%
	Downstream leased assets	2,86	0%
In total		5622,72	70%
In total		8024,11	
	Biogenic emissions	7950,91	

How much is a ton of CO₂e emissions?


1 ton of CO₂ emissions is equivalent to driving ~6798 kilometers by a car*
Finn's annual emissions are ~10 tons CO₂e. **

Sources: * Liikenne fakta 2021, ** Sitra 2018



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