

Climate action from fiber to fabric at Lenzing and Suominen

Industry: Industrial Goods



Committing to a sustainable future

About Lenzing:

For the past 80 years Lenzing has been driving the innovation of fibers. Until today the globally operating group produces Lyocell and Viscose fibers from raw material wood which is sourced from sustainably managed forests. The fibers are used in different daily applications such as wet wipes, baby diapers, facial sheet masks as well as for fashion, home textiles and protective suits.

Relying on wood as a renewable source, Lenzing has always been aware of its responsibility towards the environment and thus been committed to sustainability.



Innovative by nature

About Suominen:

The manufacturer for nonwovens produces roll goods that are turned into consumer products such as wipes. Suominen has long recognised the need for more sustainable solutions in the industry. In addition to reducing the environmental impact of their operations, they offer a sustainable product portfolio to their customers. This includes renewable, recycled and/or plastic-free raw materials as well as compostable and totally dispersible nonwovens.



The challenge

Setting the course for a more sustainable future

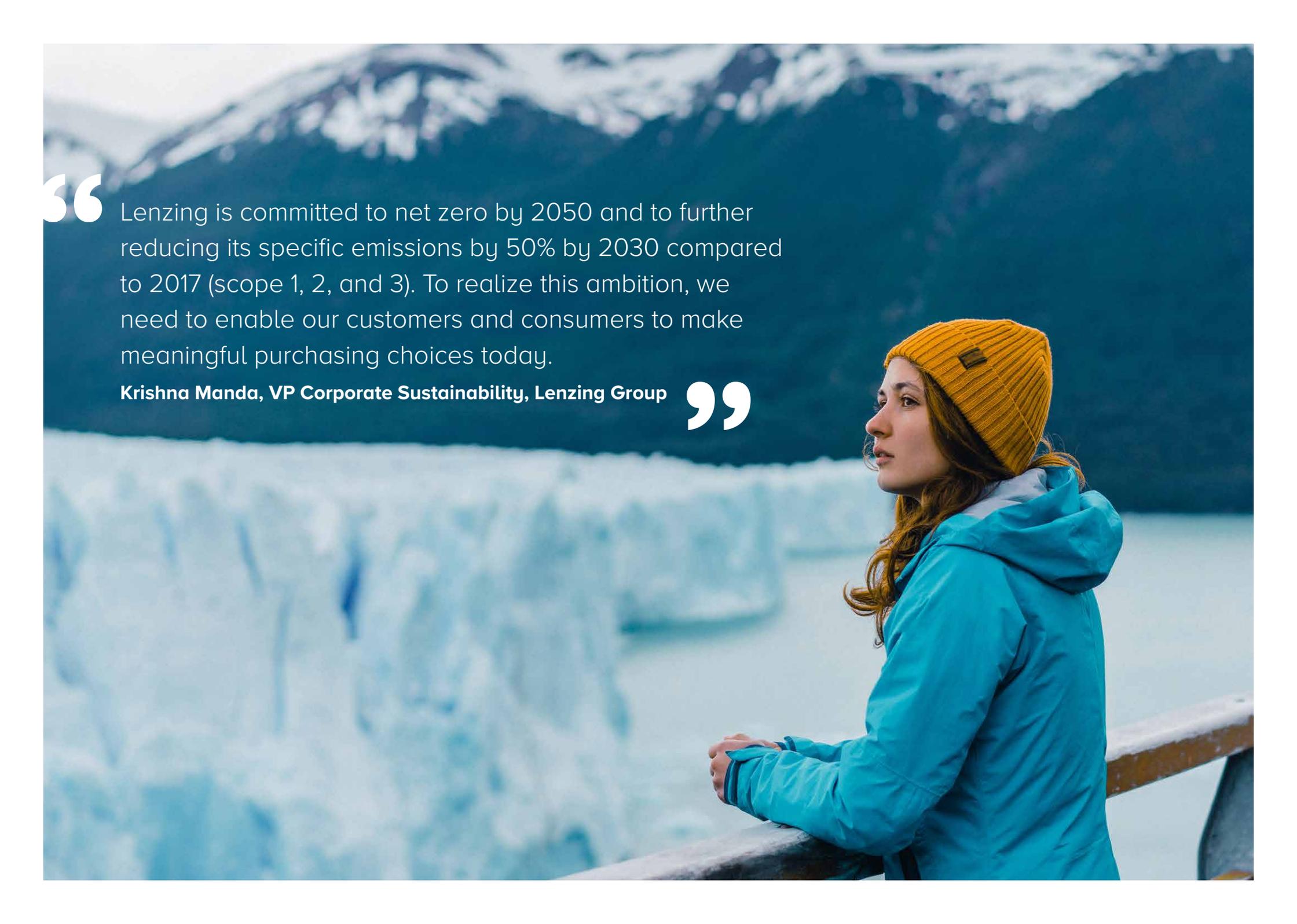
As a producer of fibers, Lenzing stands at the very beginning of the value chain for a wide range of different textile and non-woven products. With the opportunity to bring modern fiber technology into the hands of consumers around the world, comes the responsibility to set the course for a sustainable future at the very start of the product lifecycle.

In 2019, Lenzing made a strategic commitment to reduce its greenhouse gas emissions by 50 percent per ton of product by 2030 compared to their 2017 emissions. They intend to achieve net zero by 2050. With both targets Lenzing aims to do its part in slowing global warming and contributing towards the goals of the Paris Agreement and the European Commission's Green Deal.

50%

**EMISSION REDUCTION PER TON OF PRODUCT
BY 2030 COMPARED TO THEIR 2017 EMISSIONS**



A woman with long brown hair, wearing a bright blue jacket and a yellow beanie, is shown in profile from the chest up. She is leaning on a wooden railing and looking out over a vast, blue-tinted glacier. In the background, there are dark, snow-capped mountains under a cloudy sky. The overall scene is serene and emphasizes nature and sustainability.

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Lenzing is committed to net zero by 2050 and to further reducing its specific emissions by 50% by 2030 compared to 2017 (scope 1, 2, and 3). To realize this ambition, we need to enable our customers and consumers to make meaningful purchasing choices today.

Krishna Manda, VP Corporate Sustainability, Lenzing Group

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The solution

Driving climate action commitment across the value chain

Lenzing reduces carbon emissions through the use of more efficient production methods, resource-preserving technology and renewable energy. In cellulosic fiber production Lenzing is a pioneer by supporting the Science Based Targets initiative. Furthermore, their Lyocell fibers for woven and non woven products are available as carbon neutral.

To maximise their impact in climate action, Lenzing is also supporting their customers to reduce emissions and offer carbon neutral products themselves. This extends the commitment not only across the supply chain but also across all three scopes of carbon emissions.

For that Lenzing connects manufacturers such as Suominen, who turns LENZING™ fibers into fabrics, with ClimatePartner. As part of the collaboration Suominen made its nonwoven material BIOLACE® Zero carbon neutral and continues the sustainability efforts further along the value chain.

Lenzing takes specific climate action measures:

- Lyocell fiber brands TENCEL™ and VEOCEL™ are carbon neutral
- Use of resource-preserving technology
- Use of renewable energy

ClimatePartner enables Lenzing's partners to take climate action in 3 steps:

1. Calculating the Product Carbon Footprint (PCF) for products primarily consisting of Lenzing fibers
2. Establishing emission reduction potential
3. Offsetting unabated emissions through certified carbon offset projects



Carbon neutral

Product

ClimatePartner.com/18233-2201-1001



Carbon neutral

Product

ClimatePartner.com/18840-2203-1001



“ Lenzing’s carbon neutral TENCEL™ and VEOCEL™ fibers come with lowest CO₂ footprint in the industry and provide, as a key ingredient in Textile and Consumer Goods, an opportunity for customers to leverage climate action to reduce their scope-3 emissions. This momentum helps Lenzing to further reduce its own operational and the up-stream suppliers’ emissions.

Krishna Manda, VP Corporate Sustainability, Lenzing Group

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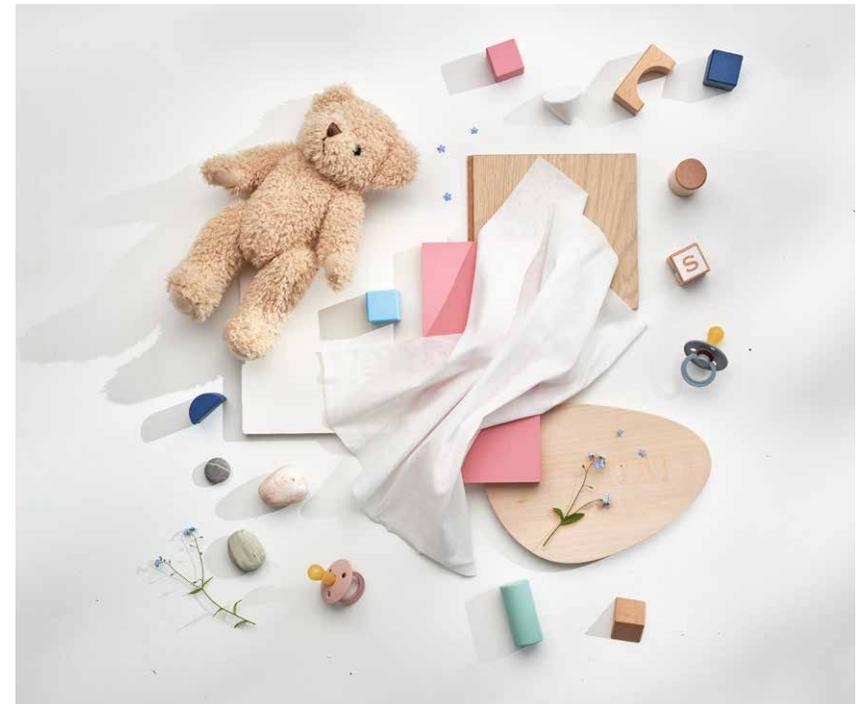
The results

Turning carbon neutral fibers into sustainable nonwoven

In March 2022 Suominen, a Lenzing customer, approached ClimatePartner for support in launching their first carbon neutral product, BIOLACE® Zero which complements Suominen's wide range of sustainable products.

Together with ClimatePartner, Suominen has calculated the Product Carbon Footprint for their nonwoven BIOLACE® Zero which is made of carbon neutral VEOCEL™ fibers from Lenzing. In a next step they reduced carbon emissions and offset unabated emissions through a certified carbon offset project for forest protection in Colombia. Since April 2022 Suominen is offering BIOLACE® Zero as their first carbon neutral nonwoven. It is also 100% biodegradable, compostable and plastic free.

In future Suominen wants to further explore the reduction potential of sustainable fibers while also passing on the sustainability commitment and engaging their customers in climate action.



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With this new carbon neutral product BIOLACE® Zero we are able to support our customers in their greenhouse gas emissions reduction targets. Innovating new products in collaboration with partners such as Lenzing by using carbon neutral VEOCEL™ Lyocell fibers is well aligned with our strategy and vision to be the frontrunner in sustainable nonwovens.

Noora Rantanen,
Manager, Sustainability & Marketing, Suominen

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ClimatePartner

All solutions at a glance



Corporate Carbon Footprint (CCF)

Calculating your corporate carbon footprint (CCF) provides you with an overview of your company's greenhouse gas emissions, where carbon hotspots lie within your business and what targets you can set to reduce your climate impact.



Used by Suominen

Product Carbon Footprints (PCF)

The calculation of a Product Carbon Footprint (PCF) for a product or service considers the emissions from the raw materials to delivery and disposal (cradle-to-customer plus end-of-life). In addition, you can also include the use phase.



Carbon emission reduction

A reduction strategy based on science based targets sets out the priorities for climate work. It provides an agreed framework for deploying resources, creating an impact and communicating results.



Used by Lenzing

Used by Suominen

Carbon offsetting

No matter how much you reduce your existing emissions, there will always be some you cannot avoid. Unavoidable emissions can be offset by supporting a recognised carbon offset project. Your products, services and company can then be classified as climate-neutral, given the overall effect on the climate has been offset.



Used by Lenzing

Used by Suominen

Communication

Climate action initiatives should be communicated. We help you celebrate the steps you're taking towards measuring and reducing your carbon emissions to your clients and stakeholders. We support the use of correct terminology, avoid greenwashing and help you transparently express your climate commitments.

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Climate change becomes more and more crucial each day and as a result we see an increasing demand for producing eco-friendly products in the nonwovens industry. I'm happy to see that we share a joint mission with our customers to reduce the environmental impact by taking promising steps towards carbon neutrality. It's unquestionable that we need to work on this climate issue together with our partners to save our planet's resources, thus leading to a better future for our children.

**Miray Acar, Head of Marketing – Nonwovens
(EU & Americas & MEA), Lenzing Group**

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Carbon Offset Project

Lenzing supports afforestation in Nicaragua



Lenzing supports a **carbon offset project in San Jose, Nicaragua** to guarantee carbon neutrality for their **VEOCEL™** fibers. While relying on wood as a sustainable resource, the company chose to support an afforestation project in return.

The project has planted more than 1 million plants of a native species of giant clumping bamboo, covering 2,361 hectares while protecting an additional 1,000 hectares of old forest as a conservation zone. It has transformed a degraded landscape into a flourishing and biodiverse ecosystem.

2,361
HECTARES COVERED

20,000
TONS CO₂ ESTIMATED ANNUAL
EMISSION REDUCTIONS

Carbon Offset Project

Suominen finances forest protection in Colombia



To achieve carbon neutrality for its **BIOLACE® Zero** fibers, Suominen also selected a carbon offset project related to wood, the original resource of its products.

The chosen **forest protection project in Mataven, Colombia** is the biggest REDD+ Project in the country and protects 1,150,200 hectares of tropical forests, safeguarding its biodiversity. It also provides education, health-care, sanitation and further social benefits in line with the UN Sustainable Development Goals (SDGs) for 16,000 indigenous people.

1,150,200
HECTARES PROTECTED

3,622,000
TONS CO₂ ESTIMATED ANNUAL
EMISSION REDUCTIONS

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