

südwolle group

Ecobalance 2022

Innovation

Environment

People

Data

Innovation

The practical implementation of ideas that result in the introduction of new goods, services or improvement in offering goods or services.

süd **webs** creating
connecting

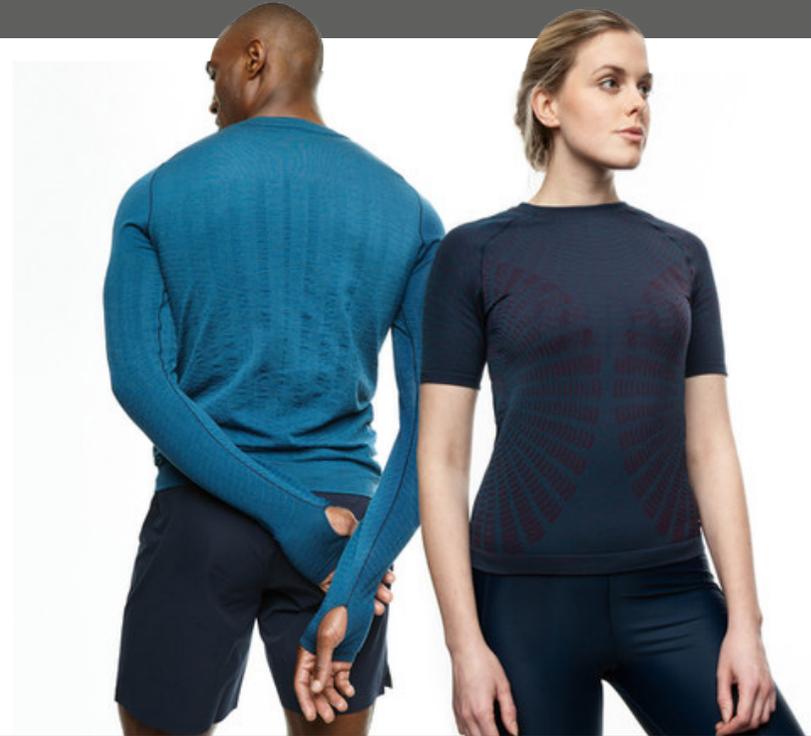
■ Innovation Hub

Südwebs is the Innovation Hub of Südwolle Group. Our mission is to inspire designers and producers in a B2B environment and present new ideas, new technologies, new collaboration possibilities and new products.

“Our motto: Create and connect.”

“Our vision: To be the most innovative worsted wool company in the world by setting trends and creating new solutions to meet market needs and reduce the environmental impact of the textile industry.”

- Stéphane Thouvay, Managing Director, Product Management & Innovation, Südwolle Group -



■ Naturetexx Plasma

A new technology for easy-care Merino. Designed to protect nature.

The traditional industrial treatment reduces the scales with chemicals and then adds a resin to partially coat the fibre, meaning the fibres can move freely in both directions and do not get caught on each other.

Naturetexx Plasma works differently. The exposure of the fibres to a, both in intensity and duration, carefully calibrated plasma field oxidises the surface and creates tiny nano-scale holes in the surface of the fibre without damaging the scales.

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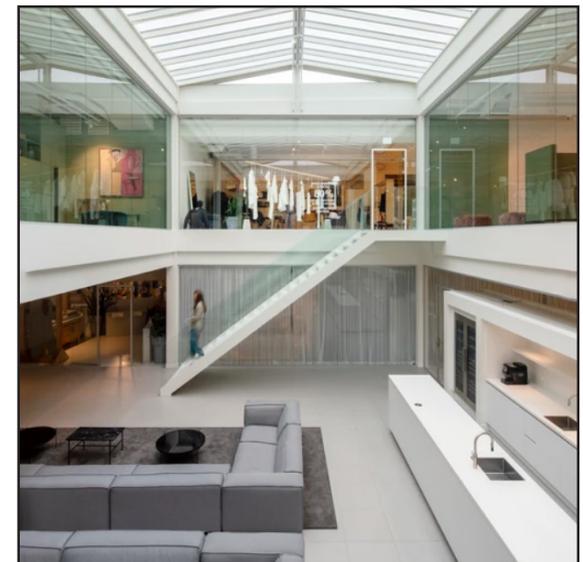
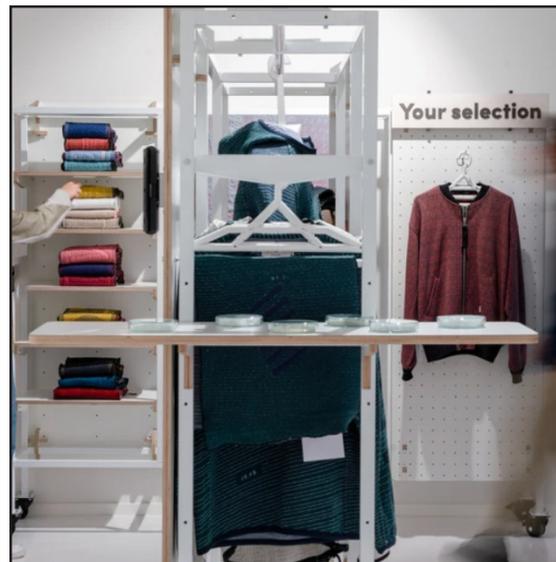
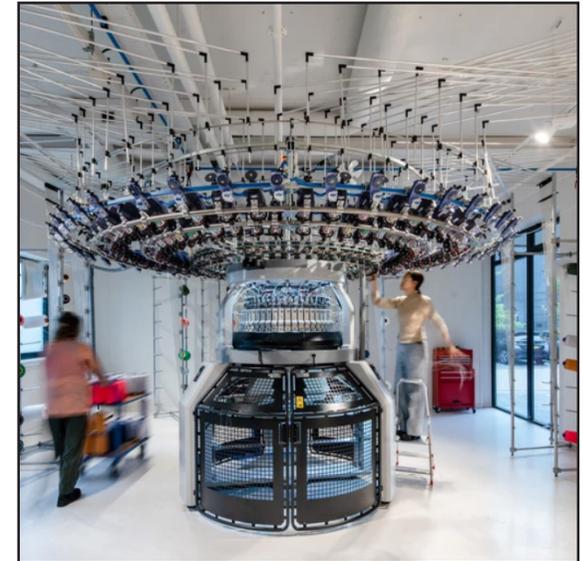
Window of Textile Opportunities™

BYBORRE, a textile platform for bespoke and responsible textiles headquartered in Amsterdam, launched The Window of Textile Opportunities™ (WoTO™).

The ultimate goal is to enable and educate an entire generation of creators to design more fit for purpose and responsible textiles. Therefore, WoTO™ has formed partnerships with leading universities around the world to connect with the changemakers of the future, including FIT and Parsons (United States), Amsterdam Fashion Institute (The Netherlands), London College of Fashion (United Kingdom) and others who will participate in the program and host workshops, seminars and other events.

"WoTO™ creates an open-source environment that is focused on other brands' products and allows them to access textile creation technology of supply chain stakeholders and industry leaders"

- Borre Akkersdijk, CCO and Co-founder, BYBORRE -



Environment

The complex of physical, chemical, and biotic factors (such as climate, soil, and living things) that act upon an organism or an ecological community and ultimately determine its form and survival.

■ DaLat Worsted Spinning, Vietnam

In two phases, our spinning mill DaLat Worsted Spinning in Vietnam was equipped with PV panels providing a total expected power output of 2040 kWp. This will lead to a production of an estimated 3.670 MW/h per year. This will approximately save 2950 tons of carbon dioxide compared to conventional methods of electricity production.



■ A new dyehouse in Germany

Rifa (Richter Färberei & Ausrüstung) is part of Südvolle Group since 2014 and specialized in the dyeing process and treatment of wool, silk and man-made-fibres.

With the following goals in mind Rifa took on the challenge of building up a new dyehouse:

fully digitized and automated production with highest standard in ergonomic comfort for the people working there

possibility to dye all products and qualities in flexible batch sizes



■ Zhangjiagang Yangtse Spinning, China

At the end of 2021, Zhangjiagang Yangtse Spinning Co. LTD installed photovoltaics (PV) panels on the roof of ZYS 5 with a production capacity of 414 kWp. For the first half of 2022, further installation on the roof of ZYS 1, 2, 3 and DyeCo PV is planned with an estimated power output of 900 kWp. The generated electricity can be used for own consumption and also be fed into the public power supply network. Through this installation, an estimated 1200 tons of carbon dioxide emissions can be saved annually.



People

Human beings making up a group or assembly or linked by a common interest.



■ Fondazione Biella Master delle Fibre Nobili

The Biella Master delle Fibre Nobili or Biella Master of Noble Fibres is a unique experience founded on a basic belief: "Factories as an artisans's workshop".

The Biella Master's mission is to provide a unique training course giving in-depth knowledge of the textile/clothing process by linking theory and practice. It introduces students to a wide range of realities where they examine individual processes, understand the fundamental connections between them and learn to communicate using the language of everyone involved in the system. That's how they develop the ability to identify and resolve problems in an innovative way.

As Südrolle Group, we recognise ourselves as a partner that helps developing the training, while contributing to the know-how of young people in a sector in which Italy is internationally renowned for. We are convinced that investing in deserving young people, regardless of their starting conditions, represents a powerful lever to encourage the growth of textiles and "Made in Italy". All of the graduates are currently employed with managerial functions in textile companies, mostly in those that hosted the students during their training period.



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■ Naze Dulong Project

The 'Naze Dulong Project' is a collaboration between the Klee Klee brand and the Dulong ethnic minority group in China. By combining the unique knitting techniques of the Dulong people, Klee Klee is showcasing their style of blankets and swatches, supports their cultural heritage and provides work and a steady income for them.

Through modern production management and promotion methods, 'Naze Dulong Project' hopes to amplify the value of local women's labor and boost their self-confidence, while encouraging more Dulong people to participate in the project. Through that, the project will contribute to the development of the local economy and help more people to understand and appreciate the Dulong culture.

Since 2020 Südvolle Group is supporting this project by providing the yarn for those beautiful traditional garments.



■ United World Colleges

The United World Colleges (UWC) are offering an educational experience based on shared learning, collaboration and understanding. It was intended that the students would act as champions of peace. UWC encourages students to use initiative and embrace personal challenge within a supportive environment. Understanding, respecting and celebrating differences as well as similarities is at the heart of a UWC experience. It is transformational and the start of a lifelong journey.

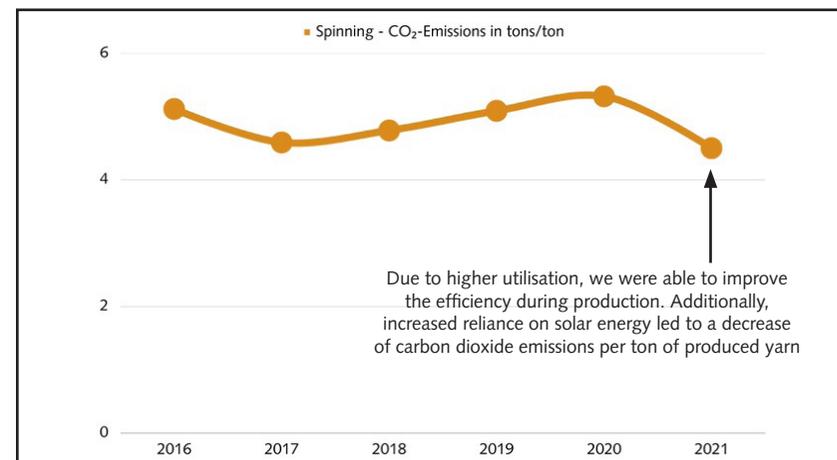
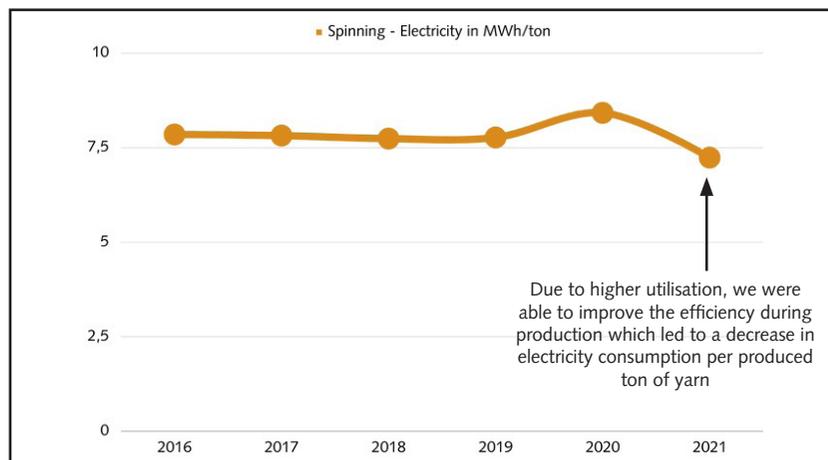
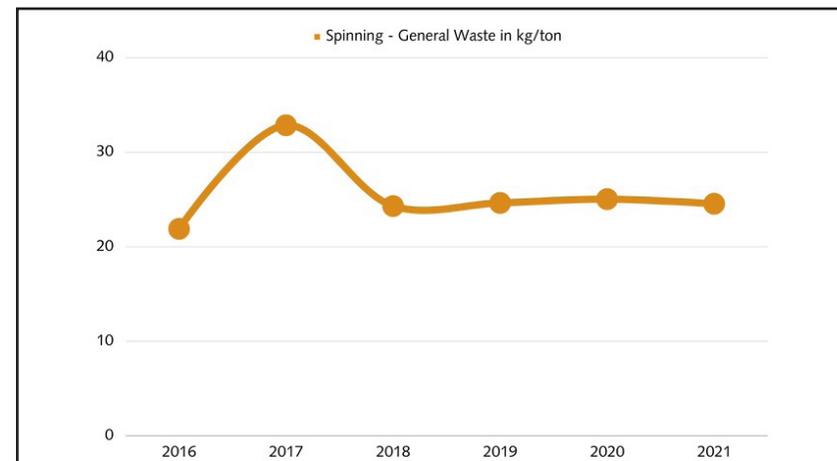
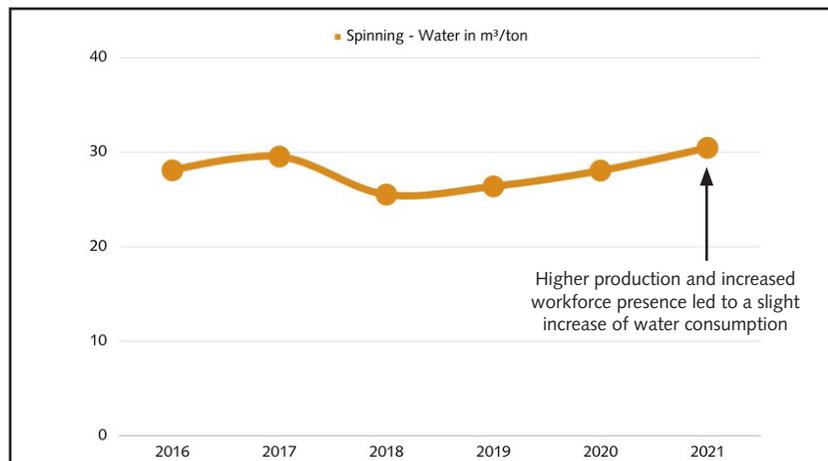
Through shared experiences, students learn about themselves and develop a sense of responsibility for others. Südvolle Group is proud to support the United World Colleges with funds for their scholarship program.

Data

Factual information (such as measurements or statistics) used as a basis for reasoning, discussion, or calculation.

Spinning

In our spinning mills, raw or top dyed wool tops are spun into yarn. For this process, mainly electricity is used, which is why we are increasing our investments in solar power to reduce our carbon footprint, as shown in the “Environment”-section of this Ecobalance.

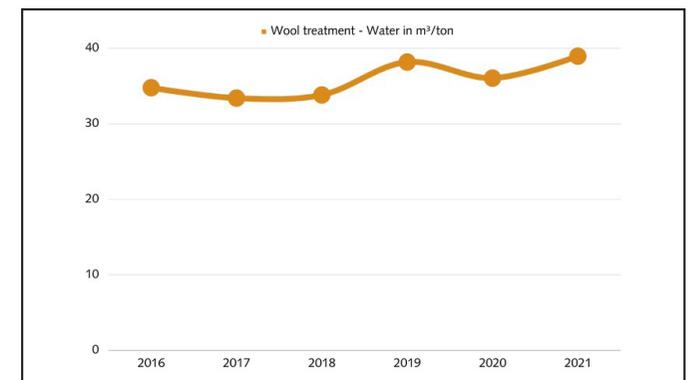
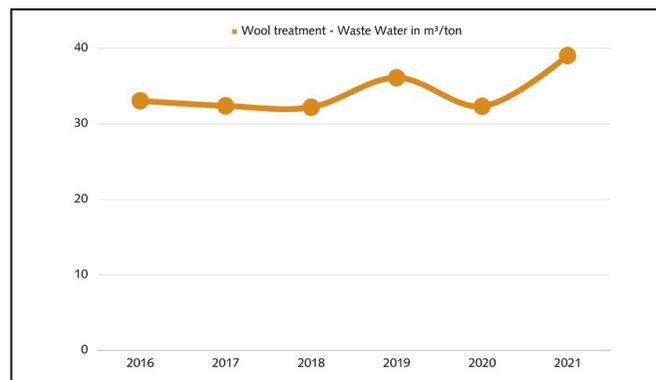
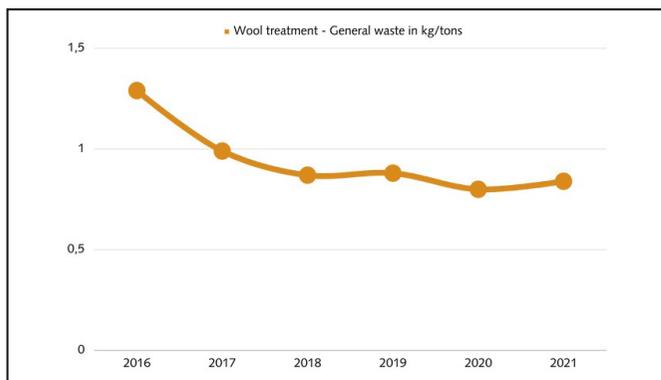
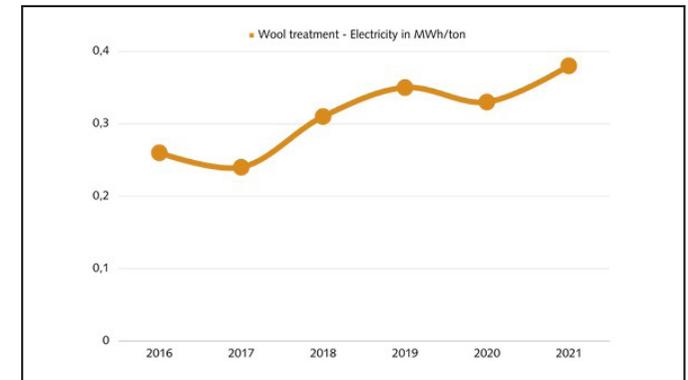
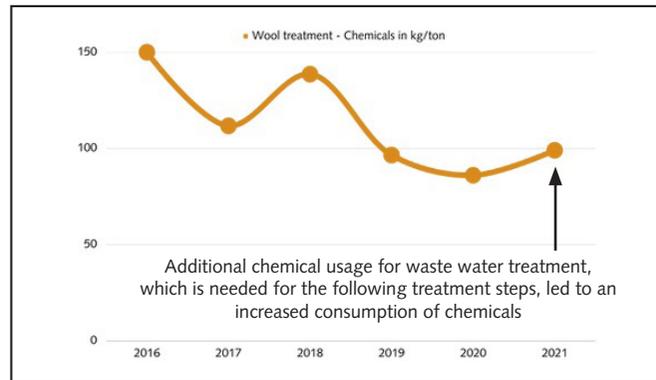
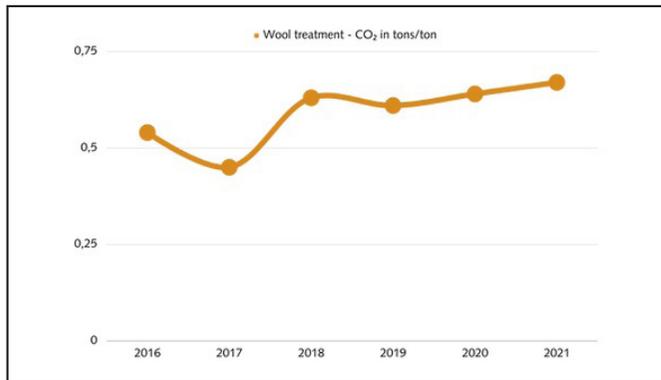


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Wool treatment

During treatment, the surface of the wool fibres are being altered to prevent shrinkage and therefore improve the washability of the final garment. Aside from electricity for the machines, mainly water and chemicals are being used during this process. Our innovative Naturetexx Plasma treatment aims towards minimal usage of water and chemicals, while completely avoiding the usage of chlorine, by using energy from renewable sources and air to achieve those anti-shrinkage effects. Due to higher production and increased workforce presence during 2021 all resource consumption went back to a pre covid level.

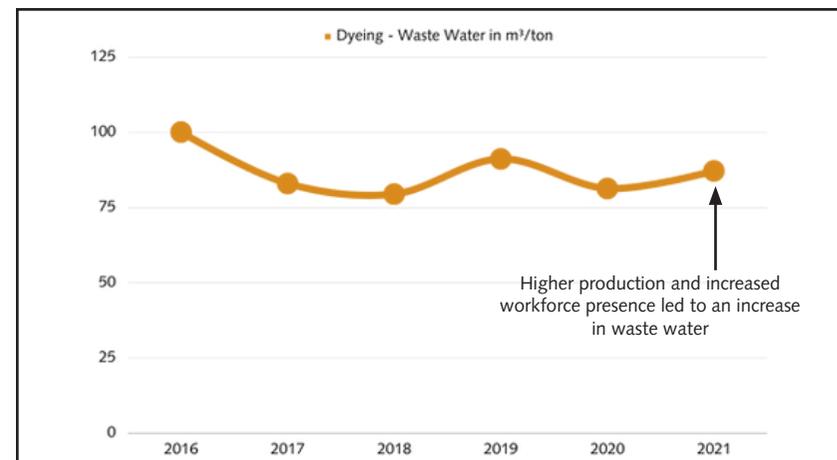
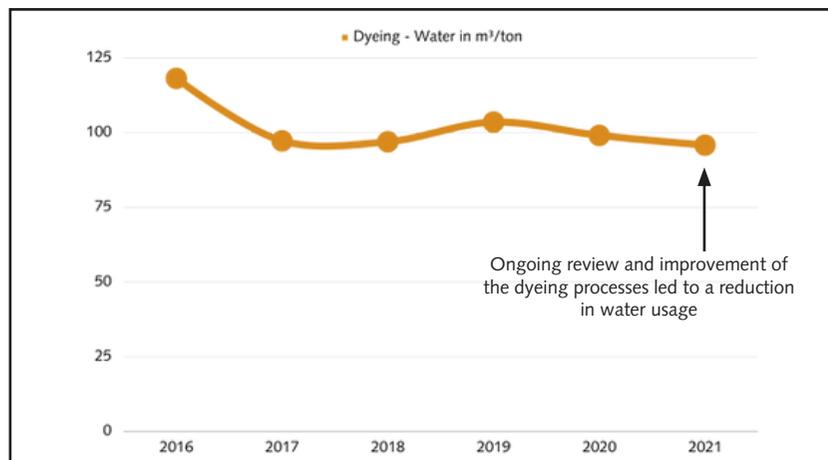
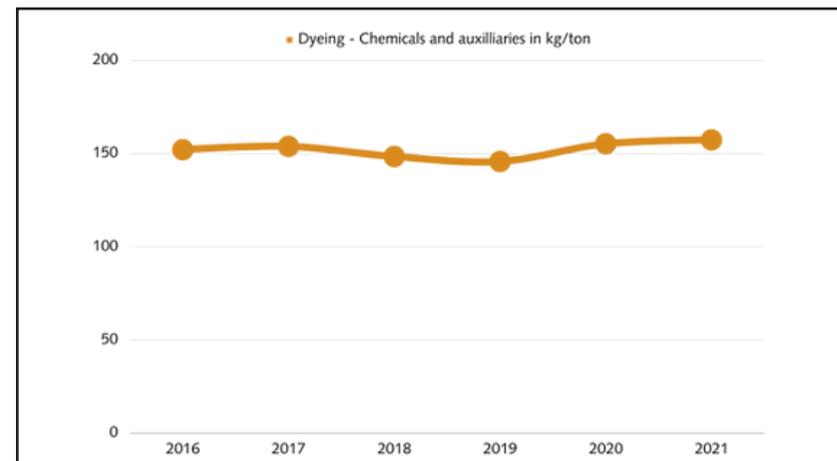
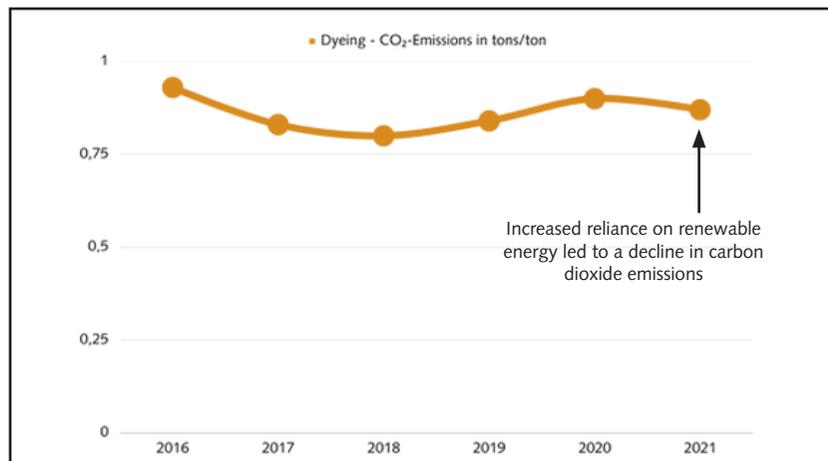


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Dyeing

The dyeing process is a highly important step during yarn production. The dyeing can take place either before or after spinning. Through ongoing revision and improvement of processes as well as investing in new dyeing vessels, we were able to cut down on overall resource consumption.

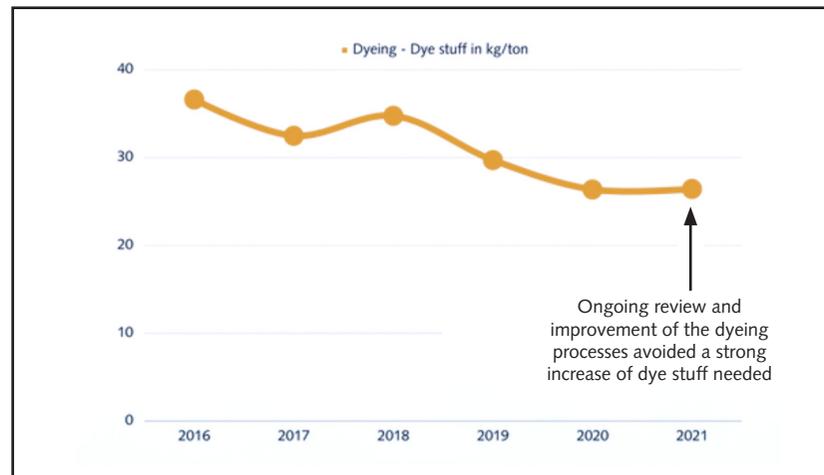
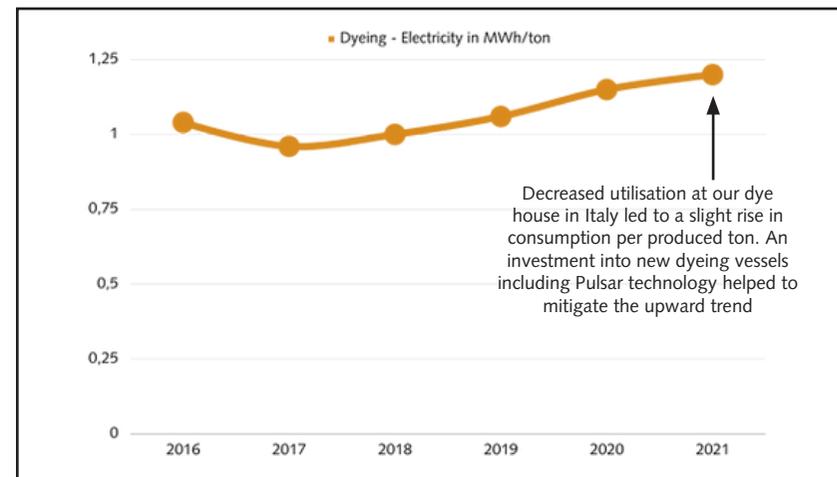
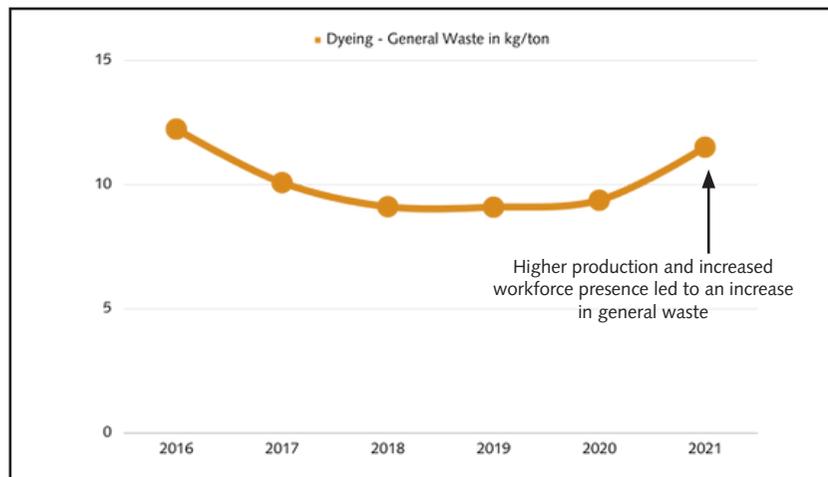


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