



**ANGGIA<sup>®</sup>**

**A new generation of values**

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Our commitment to Sustainability  
**Report 2022/2023**



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# Generation

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## **We are the 9th generation of Maglificio Maggia.**

For over three hundred years, we have been working with fabrics, refining our idea of quality and beauty. We admire our ancestors for the path they have paved so far, for the great passion and knowledge they have passed down to us.

Today, above all, we look ahead, seeking to define and apply the new responsibilities that await us, as entrepreneurs and as citizens of the third millennium.

The challenge of our generation is to be generative.

We commit to the nine generations that will come after us: to understand and appreciate the difference between being productive and being generative.

Generating value for the territory in which we operate and for our community, creating quality jobs, and producing products that align with people's values and environmental concerns—this is the essence of how we interpret this difference.

*Giovanna e Ludovico*

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# The History

## **Maglificio Maggia, a historic textile company**

Specializing in knitted fabrics for high-end clothing and luxury apparel, the Maggia Textile Mill has been operating in the Biella District, in the region of Piedmont, since the 18th century. Led by the Maggia family through nine generations, our mill is part of a local entrepreneurial fabric with a strong focus on wool, finding pride and a competitive advantage in the uniqueness of its offerings.

## **The company was founded by Francesco Maggia**

in Pettinengo, in the Biella valleys, and reached maturity in 1780, establishing itself as a vertically integrated producer of yarns, fabrics, and finished garments. In the early 20th century, it settled in the current facility in Occhieppo Superiore, at the foot of Mount Mucrone, on the left bank of the Elvo river—strategically positioned for harnessing energy from water turbines.

## **Between the First and Second World Wars**

Maggia Textile Mill phased out its spinning operations, relying on third-party suppliers in the region for the purchase of yarns and raw materials. In the '70s and '80s, the company embarked on a series of sports sponsorships, supporting renowned tennis players such as Vitas Gerulaitis, John Newcombe, and Billie Jean King.

## **In the 1990s, Umberto Maggia foresaw**

the potential of knitted fabric in the 1990s and decided to close the finished garment manufacturing department to concentrate all efforts on weaving, giving new momentum to the family business. Today, Umberto Maggia is the majority shareholder and chairman of the board. The ninth generation, represented by his daughter Giovanna and his son Ludovico, is by his side.



# The Future

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## **“Generation” marks the beginning of a strategic plan**

focused on sustainability, to which we intend to allocate significant resources. We are doing this, for example, by implementing our own heat recovery plant project, which will reduce emissions from heating and production cycles. However, to ensure that another nine generations can continue the entrepreneurial legacy in our region and at the Maggia Textile Mill, it is essential to create broad conditions for sustainable development. In our opinion, this translates into enabling the Mill to receive product certifications such as GRS, GOTS, RAF (RWS), and 4Sustainability CHEM for chemical management (in accordance with the ZDHC protocol).

A further essential step towards making social and environmental responsibility the guiding value of an activity that aims to exist and be productive while respecting the well-being of people and the health of the planet involves adopting the Code of Ethics and the organizational model (ex Legislative Decree 231/01), which is currently being drafted. To us, this is not just about legal obligations: we firmly believe that the textile industry can play a crucial role in this perspective, and therefore, we advocate for all autonomous regulations in our sector to have an innovative content for corporate responsibility.

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# The Market

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## **Maglificio Maggia is a unique entity**

in the textile district of Biella, having preserved its vocation for over two centuries, reflecting the authentic tradition of high-quality Made in Italy. Our corporate history, centered on a vertically integrated model, and further solidified its wealth of experience.

Equipped with in-house facilities for weaving, dyeing, and finishing, the Textile Mill primarily focuses on the manufacturing of knit fabrics. Our extensive product range includes wool, cashmere, and technical fabrics, with a strong emphasis on cotton, directly dyed and finished in our internal departments. We are direct suppliers to leading luxury fashion companies, thanks to the quality of our products and our attention to detail.

Our business volume has grown in recent years, demonstrating global recognition from customers for our dedication to delivering the highest quality in our products. Embracing the new trends in fashion, which emphasize the value of comfort even in high-end collections, we collaborate with major international fashion houses, providing versatile and high-quality fabrics for dresses, jackets, coats, pants, shirts, t-shirts, and sweatshirts.

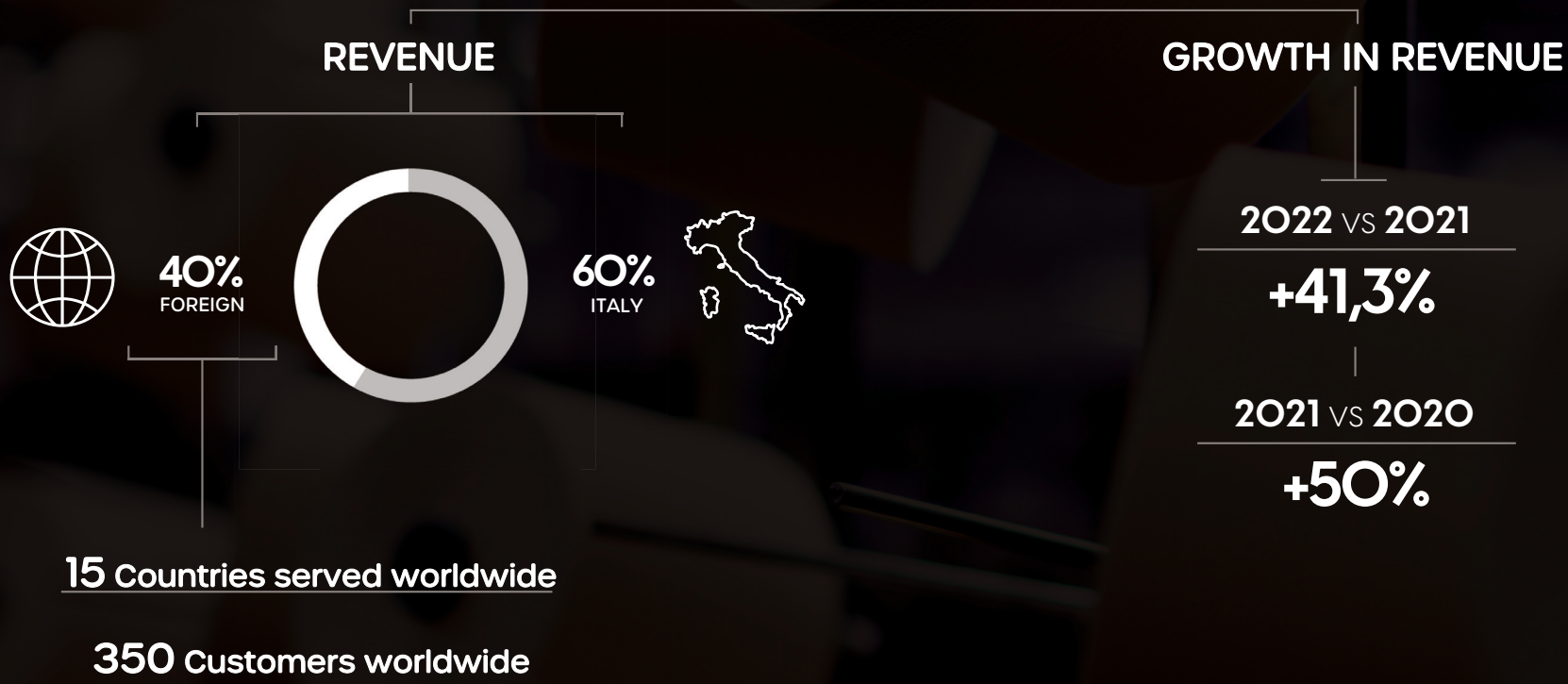
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Maglificio Maggia serves the luxury market worldwide with quality, expertise, and responsibility.





# Generated and Shared Value

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## The district of Biella

plays a globally significant role in the textile and fashion landscape. Universally recognized for its excellence in the production of high-quality fabrics, this textile hub embodies a blend of tradition, innovation, and craftsmanship, constantly evolving.

The historical expertise in the textile sector has evolved, allowing the district to remain at the forefront of research, development, and production of innovative fabrics.

The presence of internationally renowned companies, along with a network of highly specialized suppliers and artisans, gives the Biella district strategic importance in offering high-quality and sustainable materials for the fashion industry. This contributes to its reputation for excellence in the world of high-end weaving and fashion.

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**GENERATED VALUE**

TOTAL REVENUE 2021  
15.014.373€

**TOTAL REVENUE 2022**  
**21.203.910€**

**SHARED VALUE 2022**

PRODUCTION COSTS FOR raw materials, subsidiary, consumable, and merchandise	8.847.384€
PRODUCTION COSTS FOR services	7.598.139€
PERSONNEL COSTS	2.811.409€
COMMUNITY	
Fondazione Biellezza	50.000€
Sponsorship Real Maggese Team	1.000€
CREDIT INSTITUTION	52.773€
PUBLIC ADMINISTRATION	765.345,63€
SHAREHOLDERS	0€
profits shared among workers	80.000€





## INVESTMENTS

<b>2022</b>	<b>786.709€</b>
<b>2023</b>	<b>1.209.081,06€</b>
<b>TOTAL INVESTMENTS IN PLANTS AND EQUIPMENT 2022</b>	<b>617.760€</b>
<b>TOTAL INVESTMENTS IN PLANTS AND EQUIPMENT 2023</b>	<b>1.149.690,43€</b>
<b>LIABILITIES 2022</b>	<b>19.908.050€</b>
<b>NET EQUITY 2022</b>	<b>8.737.330€</b>



# Products

## Maglificio Maggia is committed

The Maggia Textile Mill is dedicated to the Italian production of fabrics made with natural, synthetic, and blended fibers. Our yarns, blends, and fibers are carefully selected for their high level of performance (softness, strength, elasticity). As a knitter of high-quality natural fibers, Maggia Textile Mill conducts a thorough evaluation of its supplier spinners. Luxurious products feature cottons such as Giza and Supima, Australian wool, cashmere from China or Mongolia, and linen from Flanders, predominantly spun in Italy.

In 2020, we introduced New Wool, a circular economy project aimed at recovering surplus stocks of pre-consumer wool and cotton yarns. In 2022, a small production of unique fabrics for women's fashion originated from cashmere waste.

In 2022, the Maggia Textile Mill unveiled the innovative µGG 12.9: a unique fabric in the textile landscape, destined for super-exclusive production, and its process is currently under patenting. 12.9 microns represent the diameter of this extremely fine wool, challenging to source, which is processed using the carding technique - despite its fineness - to achieve a product with an incredibly soft hand, akin to cashmere and highly comfortable to wear, especially suitable for the tailoring of men's clothing.

### TOTAL PRODUCTION 2022

**N° 1.000.000** meters of fabric produced

**321.465 Kg \*** considering only the kilograms produced internally





# Quality

## The quality of a fabric

largely depends on the yarn used; that's why the search for the right raw material is an essential pillar in textile creation.

The approach to quality at Magificio Maggia involves, for all fabrics both finished internally and from external suppliers, checks on all aesthetic and technical characteristics conferred to the fabrics through dyeing and finishing processes. While of course important intermediate checks are performed all along the production process, this final overall exam is the fundamental step in deciding whether the fabrics are suitable for being supplied to our customers.

Through the inspection process, our operators subject each piece undergoes the expert scrutiny of our operators, who will also clean any remaining impurity and ensure the compliance with our high quality standards: a process which cannot do without the human element.

### QUALITY CHECKS performed on:

**100%**

Quality checks carried out on incoming and outgoing goods (incoming yarn checks, semi-finished checks, and finished fabric checks).

**0,1%**

quantity of fabric not approved for the customer





# LCA

## In the life cycle analysis

In the life cycle analysis, the impact assessment was carried out with reference to a single 'impact category,' namely Global Warming Potential 100-years (GWP-100 years), aimed at quantifying different greenhouse gases and characterizing them based on their specific global warming potential. This allows obtaining values of carbon dioxide equivalent (CO<sub>2</sub>e), i.e., the cumulative value of the 'climate-altering capacity' of all greenhouse gases, weighted relative to that of CO<sub>2</sub> and conventionally set at = 1. The output of the study can thus be configured as the Carbon Footprint of the products considered.

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## The sole Carbon Footprint

may not be entirely representative of the product's impacts, especially in the textile sector, where, for example, the use of water resources can be particularly significant. For this reason, we have also conducted a comprehensive calculation for other impact categories deemed significant. The assessment described here was carried out using SimaPro software v.9.3 and the Ecoinvent technical database (version 3.9).

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## Within the scope of this study

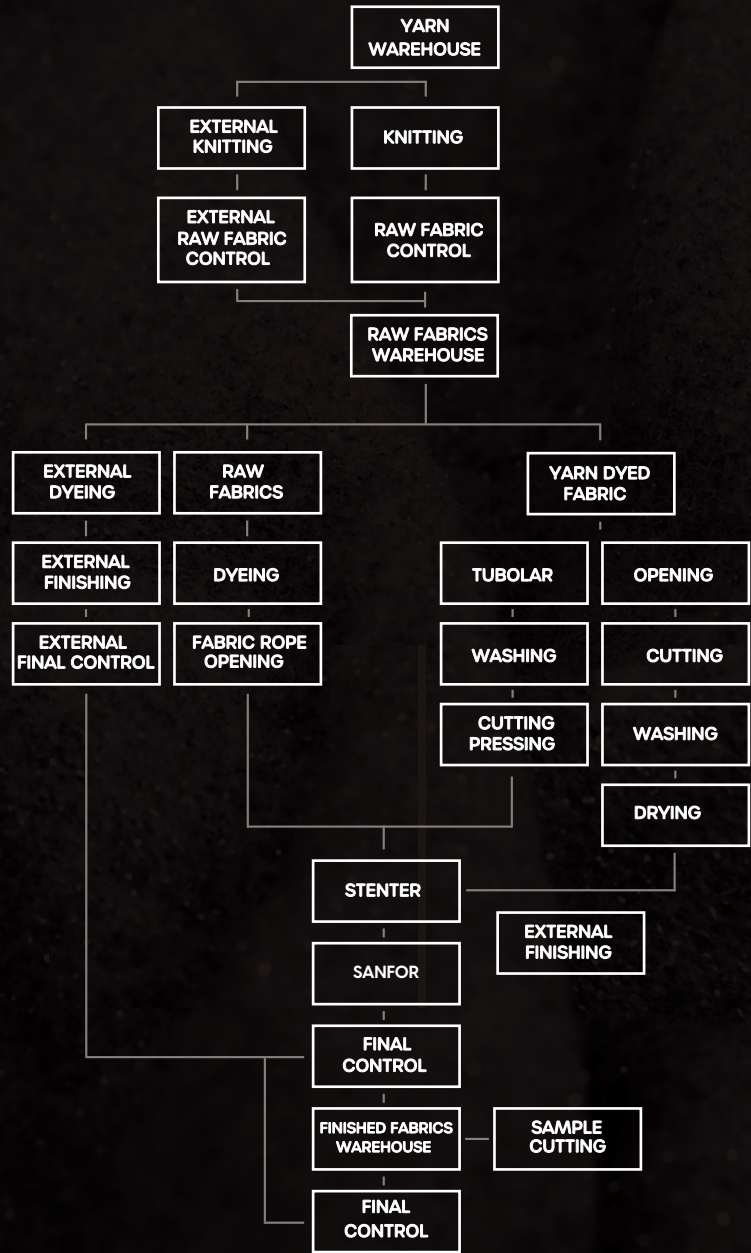
primary activity data are mainly collected directly at the production site. Secondary data are sourced from updated and specific databases or relevant technical literature to ensure a high level of reliability.

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## The selected functional unit

refers to 1 kg of Jersey fabric. The system boundaries have been oriented towards a 'gate-to-gate' assessment, covering the entire company's production perimeter, from the arrival of purchased materials to the packaging of the finished product leaving the factory. Therefore, upstream and downstream flows of the company are not considered, and consequently, the impact of transportation is not taken into account. The reference year for the LCA study is 2022. The precision, completeness, and technological, temporal, and geographical representativeness of the data are considered good.







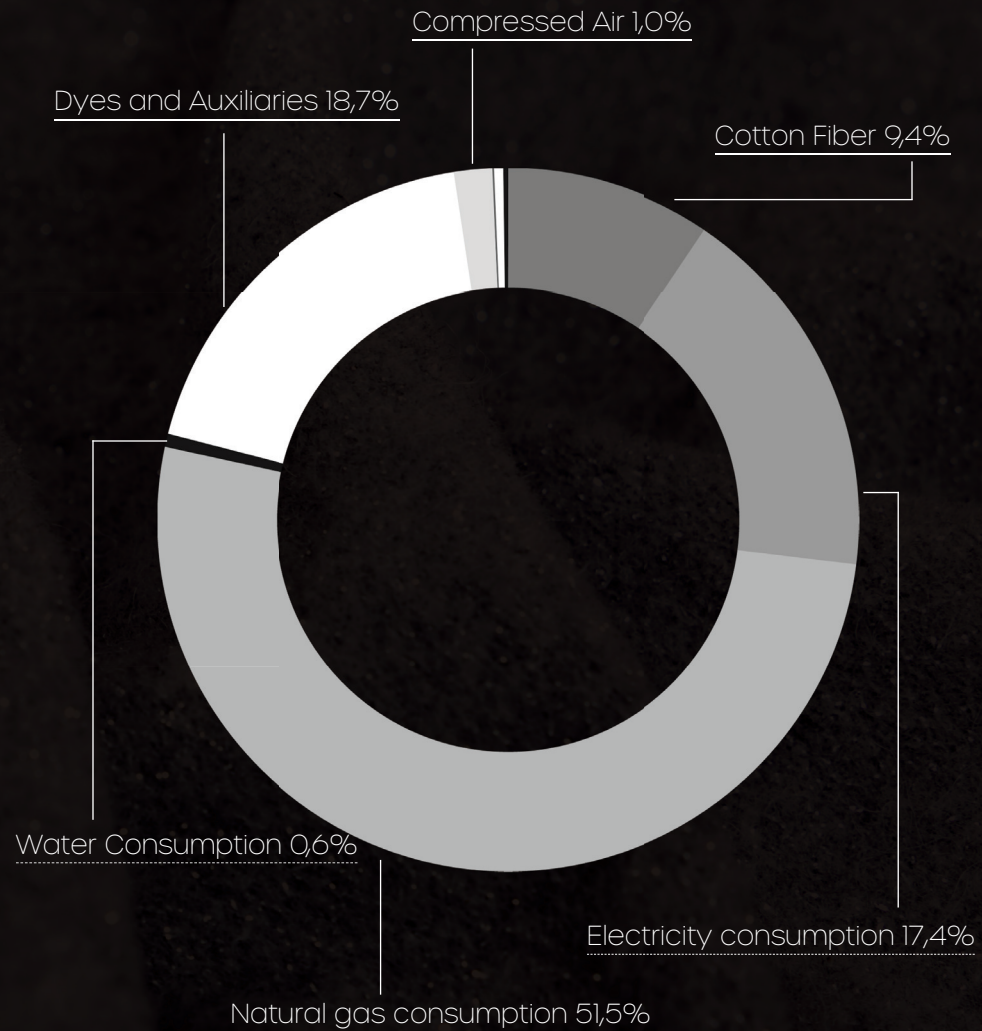
<b>Article subject to analysis</b>	<b>11057</b>
Composition	<b>100% cotton</b>
Quantity produced in Kg in 2022	<b>12.081</b>
In m	<b>44.275</b>
article weight in g/m	<b>245</b>
in Kg/m	<b>0,254</b>
article weight in g/m <sup>2</sup>	<b>160</b>
in Kg/m <sup>2</sup>	<b>0,16</b>

Tab. 1: Inventory data summary

<b>PHASE</b>	<b>PROCESS</b>	<b>ENERGY CONSUMPTION (kWh)</b>	<b>WATER CONSUMPTION</b>	<b>OTHER CONSUMPTION</b>	<b>USED MATERIALS</b>	<b>WASTE GENERATED</b>
<b>A</b>	Knitting	<b>0,9</b>	<b>0,25 l</b>	0,8 m <sup>3</sup> compressed air	0,01l knitting oil	<b>0,02 kg</b>
<b>B</b>	Piece Dyeing	<b>1</b>	<b>200 l</b>	Dyes and Auxiliaries		<b>180 l</b>
<b>C</b>	Drying	<b>0,25</b>				
<b>D</b>	Warper	<b>0,47</b>				
<b>E</b>	Stanter	<b>0,46</b>				0,06 kg selvage
<b>F</b>	Sanfor	<b>0,43</b>				
<b>G</b>	Quality Control	<b>0,31</b>				
<b>H</b>	Packing	<b>0,21</b>			0,6 kg Cardboard tube 0,19 kg plastic film for 15 kg of fabric	

Tab. 2: Specific data for process stages

PROCESS	QUANTITY U. M.	GHG EMISSIONS kgCO <sub>2</sub> e
Cotton Fibre	1 kg	0,869
Electricity consumption	4,03 kWh	1,616
Natural gas consumption	2,657 m <sup>3</sup>	4,781
Water consumption	200,25 l	0,058
Dyes and Auxiliaries	as detailed in recepy	1,741
Compressed air	0,8 m <sup>3</sup>	0,096
Textile waste	0,08 kg	0,060
Wastewater	180 l	0,006
Plastic film	0,013 kg	0,039
Cardboard tube	0,04 kg	0,022
	<b>TOTAL</b>	<b>9,289</b>



Tab. 4: CO<sub>2</sub>e emissions from Jersey fabric production processes

Percentage of environmental impact for each process category



<b>IMPACT CATEGORY</b>	<b>TOTAL</b>	<b>UNIT</b>
<b>Climate change</b>	9,457	kg CO <sub>2</sub> eq
<b>Ozone depletion</b>	1,478E-06	kg CFC11 eq
<b>Ionising radiation</b>	1,224	kBq U-235 eq
<b>Photochemical ozone formation</b>	0,037	kg NMVOC eq
<b>Particulate matter</b>	4,937E-07	disease inc.
<b>Human toxicity, non-cancer</b>	-1,281E-07	CTUh
<b>Human toxicity, cancer</b>	1,056E-08	CTUh
<b>Acidification</b>	0,078	mol H+ eq
<b>Eutrophication, freshwater</b>	0,015	kg P eq
<b>Eutrophication, marine</b>	0,090	kg N eq
<b>Eutrophication, terrestrial</b>	0,232	mol N eq
<b>Ecotoxicity, freshwater</b>	621,073	CTUe
<b>Land use</b>	815,719	Pt
<b>Water use</b>	6,844	m <sup>3</sup> depriv.
<b>Resource use, fossils</b>	136,014	MJ
<b>Resource use, minerals and metals</b>	7,554E-05	kg Sb eq

Tab. 6: Total LCA results - EF 3.0 method for all impact categories



# Supply Chain

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## We give particular importance to

the traceability of our supplies and ensure full transparency regarding the processing chain of the yarns. Most of our subcontractors are located between the province of Biella and the province of Milan, within a radius of 150 km. Therefore, we have undertaken a supply chain assessment to evaluate shared commitments on key environmental and social issues. Our focus on reducing environmental impact due to energy consumption is shared by our subcontractors, whom we will involve annually from 2024 in monitoring and reporting their performance.

In the meantime, the dyeing facilities, accounting for 79% of our external dyeing processes, already hold ISO 14001 certification or are in the process of obtaining it. Additionally, our strategic partner for high-level technical fabrics has made energy efficiency investments in the past 5 years, resulting in a 34% reduction in energy consumption. In terms of relevance, responsible suppliers for 79% of external dyeing processes and 75% of external weaving processes have been involved, along with suppliers responsible for 22% of yarn production. Concerning the representativeness of our offering, specialized dyeing facilities for knitted fabrics, strategic weavers for high-level technical fabrics, and suppliers of high-level cellulosic and animal fibers have been included.

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## OUR YARNS

**342.919,40 kg**

raw materials purchased in 2022

## LOW-IMPACT RAW MATERIALS

**RECYCLED: 35.368,18 kg**  
GRS Certified Material (WS+PE)

**CERTIFIED: 2294,26 kg**  
GOTS Certified Material

## TYPE OF YARN PURCHASED

WOOL,  
CASHMIRE,  
LINEN,  
COTTON,  
SILK,  
MOHAIR,  
ALPACA,  
CORDURA,  
COOLMAX,  
LYOCELL TENCEL,  
MODAL TENCEL



# The Facility

## The historic plant

of Maglificio Maggia in Occhieppo Superiore dates back to 1780 and is now dedicated to meeting rooms, showrooms, and offices. New buildings have been added to meet the production needs that have arisen over two centuries of activity, housing approximately 40 state-of-the-art weaving machines with Industry 4.0 features. Among these are single and double front knitting machines and Jacquard machines capable to offer customers a wide range of options. The facility includes a warehouse for yarns and spaces reserved for employees (cafeteria, changing rooms, relaxation areas), built in the 1960s. The dyeing, finishing, and logistics units are housed in one of the more recent buildings, dating back to 2006.

In the first half of 2023, our company completed the installation of a photovoltaic system, currently covering approximately half of its energy needs. For the future, we aim to achieve complete energy autonomy.





# Community

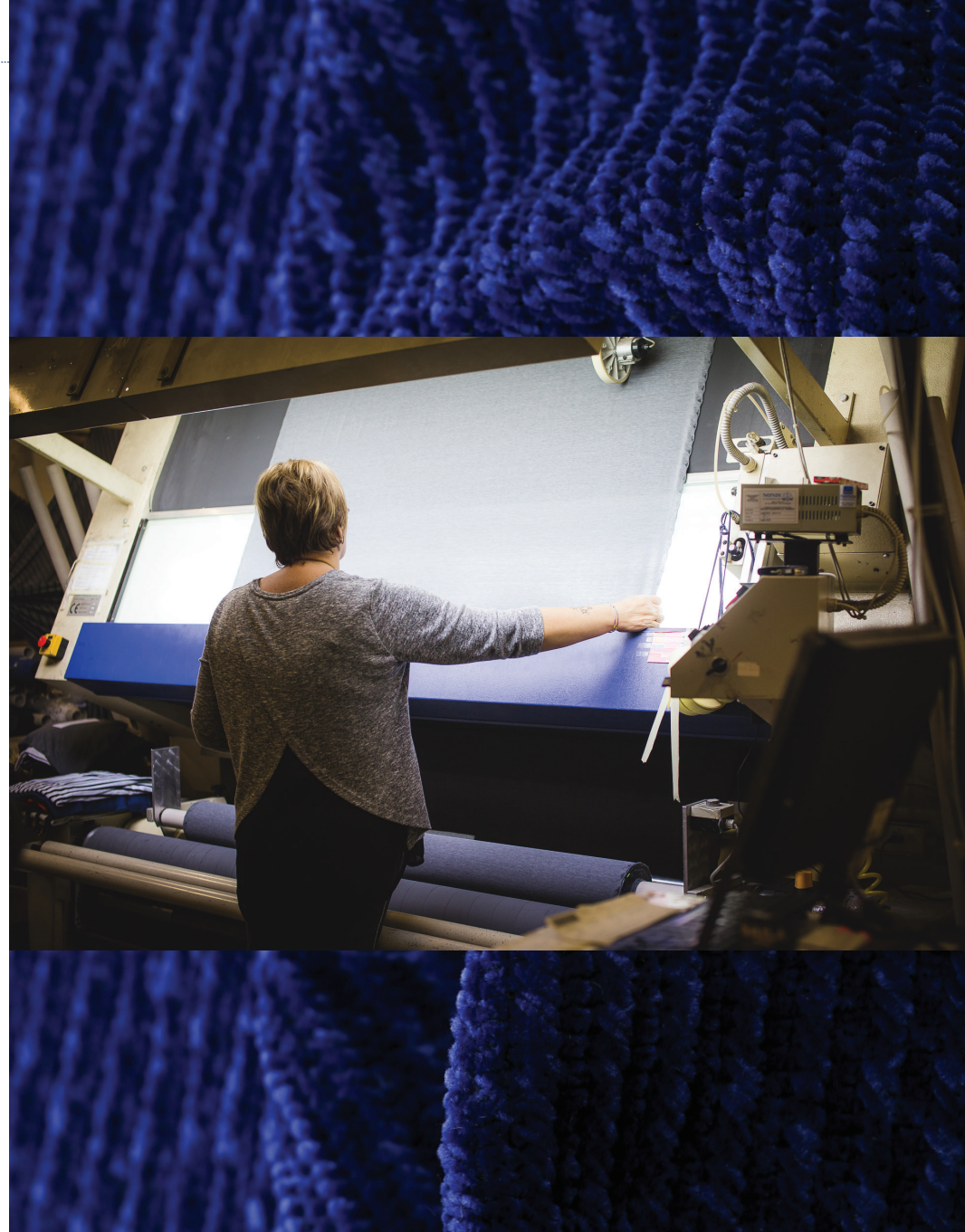
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## The majority of the workers

at Maglificio Maggia reside in the local area, and it is common to find family continuity across different generations within the company's workforce.

Maglificio Maggia periodically supports local projects and initiatives through donations. We are associated with the Bellezza Foundation, which aims to promote the Biella region from a tourism perspective, and we have established collaborations with the Higher Technical Institutes for Textiles, Clothing, and Fashion (ITS TAM) for curricular internships, training programs, and employment opportunities.

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# Partnership

## Sharing common goals

to protect consumer health and with a vision oriented towards improving our industry in terms of social and environmental responsibility, Maglificio Maggia Srl joined Tessile e Salute in 2017. In 2019, the company obtained the T&F (Traceability and Fashion) certification, a voluntary traceability model for enhancing the fashion system, promoted by the Chambers of Commerce of the main Italian textile districts (Italian Textile Fashion).

## In 2020, we entered into a licensing agreement with Glastonbury

for the production of technical golf apparel under the Maggia brand, exclusively distributed in Japan. In 2022, a global license was secured with The Golden Age of Tennis for the production of tennis apparel inspired by the designs of the '70s and '80s (of which Maggia was a protagonist with its own brand).

## In May 2023, Maglificio Maggia collaborates with Slow Food Italy,

the movement that has incorporated the right to seek what is "good, clean, and fair" in the satisfaction of culinary pleasure. Thus, Maglificio Maggia becomes part of the emerging Slow Fiber network that extends the ethical approach of Slow Food to aesthetic pleasure and comfort: a "beautiful" garment must also be healthy, clean, fair, and durable. The goal is to spread awareness that leads to incorporating the deep values of sustainability into the textile supply chain and consequently raising the average quality of products on the market: sustainability as an inseparable element of quality, in other words. A production and commercial model based on quality, circularity, and dignity, in our view, is possible, so we have chosen to pursue it together.

## MAGNOLAB

In 2022, Maglificio Maggia is among the founding members of the MagnoLab project, a network of textile companies that has already expanded globally from the Biella district. Its primary mission is to develop innovation, research, and projects related to sustainability and the circular economy through close collaboration among its members. The network includes companies such as Bayart & Textifibra, De Martini, Marchi & Fildi, Filidea, Di.Vé, Pinter Cajpo, and Tintoria Finissaggio 2000. The project involves a ten million euro investment plan and a physical network of pilot plants installed in a single location in Cerrione (Biella). This facility allows collaborative development of innovative products and processes with rapid experimentation cycles, following a lean management model. MagnoLab secured the top spot in the final ranking of proposals admitted to the funding provided by the PNRR for textile recycling. It has promoted and contributed to donations for the recent earthquake in Turkey and in support of the Ukrainian population since the outbreak of the conflict.



# The Environment

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## Maglificio Maggia Srl

and the companies in its production chain operate in full compliance with all laws and regulations governing air and surface water emissions. They undergo regular inspections by the relevant authorities. The commitment to maintaining an updated management system for hazardous substances in the finished product led to the initiation of a partnership with the association Tessile & Salute in 2017. This association is a reference entity for the Ministry of Health concerning chemical components and ecotoxicity, and it oversees the certification of the processing cycle.

### Chemical controls

The application of best practices in chemical processes is shared by our strategic partners in dyeing and finishing, committed to the progressive increase of inputs compliant with positive lists such as ZDHC, Bluesign, GOTS. In our laboratory, a part of the activities is dedicated to experimenting with new techniques to innovate the sustainability of the finished product.

### Wastes

Our commitment to reducing the impacts from waste production is also realized through the recovery of part of the textile residues by GREEN LINE Srl, whose activity consists of transforming the production waste of the textile industry into secondary raw materials.

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# The Environment

## CHEMICAL CONTROLS

Adherence to ZDHC, appointment of a chemical manager

## WATER

**CONSUMPTION 2022: 43.120 m<sup>3</sup>**

## WASTES

The discarded textile material (as a by-product from processing and finishing) is treated by Green Line SRL.

Green Line's collection:  
 in 2022 in kg 2.710 - in 2023 in kg 920

## ENERGY CONSUMPTION

**Annual electricity consumption 2022: 591.073 kwh**

Thermal energy:  
 heating and steam production for process water.

**Annual thermal energy consumption 2022: 346.885 Sm<sup>3</sup>**

<b>ELECTRICITY CONSUMPTION</b>	<b>2023</b>	<b>407.138</b>	<b>kwh</b>	<b>Until November 2023</b>
<b>ENEWABLE RESOURCHES: PHOTOVOLTAIC</b>	<b>2023</b>	<b>121.354</b>	<b>kwh</b>	<b>Installed in May 2023 Until November 2023</b>



# People

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## Our fabrics sinking their roots

in a long-standing relationship with the people who, throughout the decades, have always known how to guide and manage technological innovations. In a world where technology embraces the future, the guiding thread of our company remains human touch. The skilled and reliable hands of our collaborators are still today the key element of our production activity and a guarantee of quality for the brand. Human capital is, therefore, the thread that holds together the strengths of Maglificio Maggia: it is made of knowledge that is passed down and continually updated, and trust in the ability of each individual.

The rapid growth of personnel in the last ten years has led Maglificio Maggia to implement systemic actions to ensure the well-being of its employees. The 63 collaborators, evenly distributed between men and women, adhere to the National Collective Labor Agreement for the Textile, Clothing, and Fashion sector, and are periodically evaluated to promote their internal career advancement.

In addition to traditional production bonuses, our company redistributes its profits annually to its employees (except for the portion reinvested in business activities), based on a fixed portion and a variable one linked to performance. In 2022, this initiative allowed us to provide an additional net salary to our workers.

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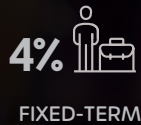
# ANGGIA

EMPLOYEES 60 

  
28 MEN

  
32 WOMEN

## CONTRACTS



## ROLE

56%  31% MEN  
24% WOMEN  
PRODUCTION STAFF

41%  13% MEN  
27% WOMEN  
OFFICE STAFF

4%  5% MEN  
0% WOMEN  
EXECUTIVES

## WORKING SHIFTS



2 TURNS ON 5 WORKING  
DAYS A WEEK



# The Planned Actions

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## Some of our actions

are already in progress and will be reflected in the upcoming reports: a new collaborator joined our team at the end of 2023, responsible for managing the sustainability journey and pursuing certifications such as GRS, GOTS, RAF (RWS), and 4Sustainability CHEM.

In 2024, we aim to strengthen internal processes to ensure the adherence to the high ethical values our company represents. Additionally, the company is working on a recovery system for productive purposes using heat from its own boiler.

By the end of 2022, Maggio Maggia commissioned the company Archivia to catalog and preserve the historical archive of the company. This effort will result in a comprehensive overview of the company's heritage and a rich archive that will allow us to establish a textile company museum.

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# Methodological Note

## "Generation" is the first sustainability report

of Maggio Maggia, prepared voluntarily to affirm the commitment to contribute to the transformation that the textile sector is leading to achieve sustainable development goals. The report refers to the year 2022, with some preliminary data for 2023.

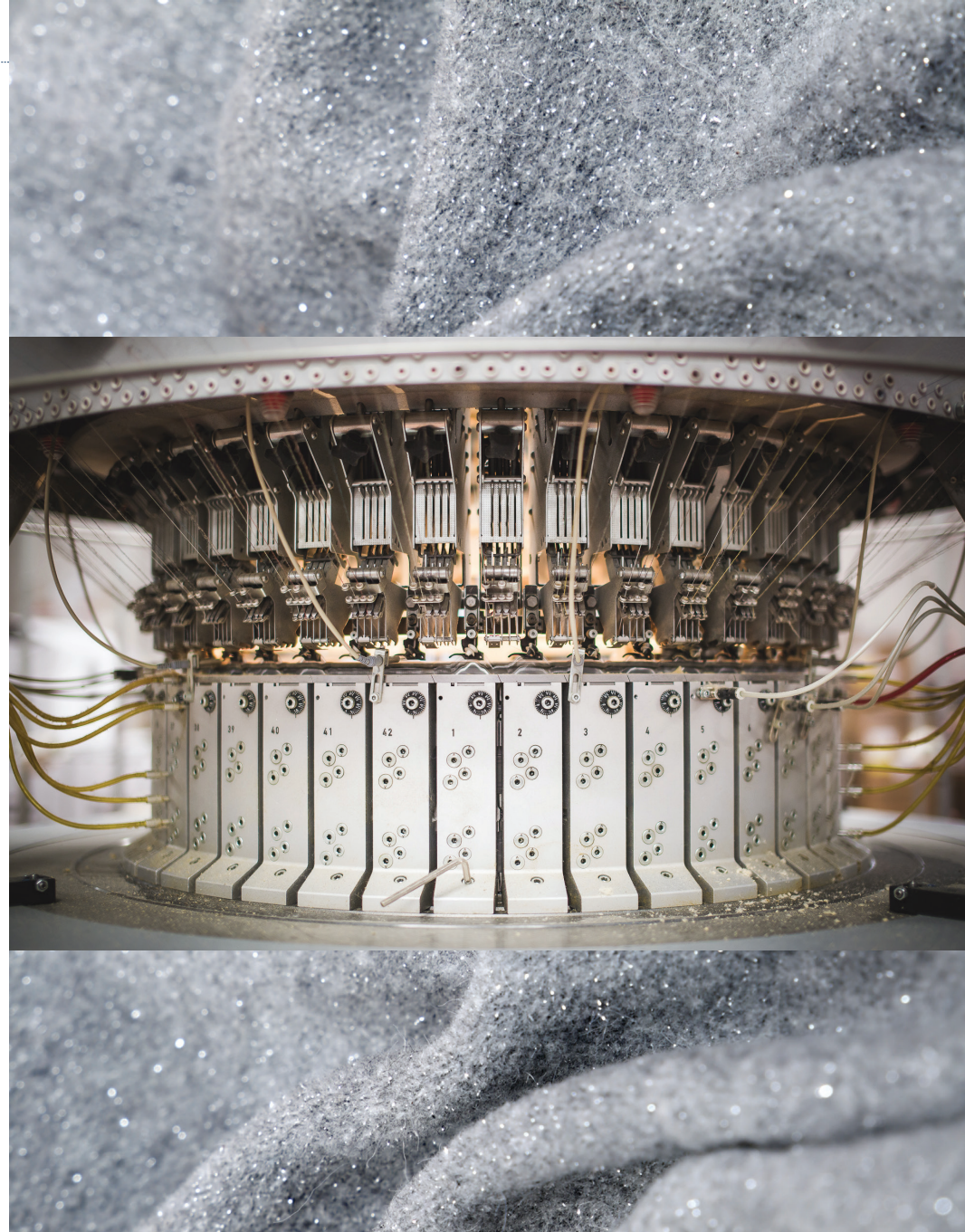
The significance of suppliers has been calculated in terms of turnover. The LCA assessment was conducted with a general reference to standards for life cycle analysis:

UNI EN ISO 14040:2021 - "Environmental management - Life cycle assessment - Principles and framework"

UNI EN ISO 14044:2021 - "Environmental management - Life cycle assessment - Requirements and guidelines"

"Generation" also presents the results of a simplified Life Cycle Assessment (LCA) of greenhouse gas emissions generated in the production cycle of the Jersey fabric produced by Maglificio Maggia, with a functional unit of 1 kg of fabric. The assessments shared in the report were conducted using SimaPro v.9.3 software and the technical database Ecoinvent (version 3.9). As mentioned in the specific section, the scope was established as "gate to gate," meaning it is limited to the entire production perimeter within the company's site, excluding upstream and downstream flows. No transportation was considered.

The information and data cover the period from January 1, 2022, to December 31, 2022, unless otherwise indicated. The contents of this report have not been subjected to third-party verification.







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