

The image features a close-up of vibrant green oak leaves in the upper left and center, partially obscuring a soft-focus background. The background shows a misty, rolling landscape under a sky with a gradient from light blue to a warm orange-pink glow near the horizon, suggesting a sunrise or sunset. The overall mood is serene and natural.

# Sustainability Report 2025

Livonia<sup>prima</sup>



# Contents

- 5 Introduction & Leadership Message
- 6 Key Facts & Figures 2025
- 7 Sustainability in Livonia Print
- 10 Double Materiality Assessment
- 11 Energy & Electricity
- 12 Waste Management & Circularity
- 14 LEAN Culture & Operational Efficiency
- 16 Certifications & Management Systems
- 19 Product Safety, Material & Regulatory Compliance
- 20 Climate Action & Emissions
- 22 Supply Chain
- 24 Transport & Packaging
- 25 People & Social Responsibility
- 28 Education & Community





The graphic industry continues to evolve in a rapidly changing environment. New regulatory requirements, increasing expectations for supply chain transparency, and the growing need to reduce environmental impacts are reshaping how books are produced and brought to market. At Livonia Print, we see these developments not only as challenges, but also as opportunities to strengthen our role as a trusted and knowledgeable manufacturing partner.

This role also means recognising that sustainability is not something any company can achieve alone. Every book is the result of collaboration between publishers, paper producers, printers, suppliers and logistics partners. By sharing knowledge, encouraging dialogue and making informed choices together, we can reduce environmental impacts, strengthen our industry and build businesses that are resilient and prepared for the future.

Our guiding principle – MAKE THE RIGHT CHOICE – has remained at the centre of everything we do. For us, this principle means taking responsibility for the decisions made throughout the entire lifecycle of a book. It means carefully considering materials, production methods, logistics, product safety, environmental responsibility and long-term value. Most importantly, it means helping our customers make informed choices that balance sustainability, quality, functionality and cost-efficiency.

Throughout 2025 we continued to invest in our operations, strengthen cooperation with suppliers and support our customers in navigating increasingly complex sustainability requirements. Our focus remains on responsible sourcing, greater supply chain transparency and practical solutions that reduce environmental impact while maintaining the high quality standards our customers expect.

One of the most significant developments during 2025 was our transition to a new ERP system, Microsoft Business Central, which went live at the beginning of 2026. This was an important step in strengthening the foundation of our business for the years ahead. The new system will help us improve



traceability, manage data more effectively and meet increasingly demanding customer and regulatory requirements. It also creates new opportunities to improve efficiency and support better decision-making across our operations.

Our commitment to people remains equally important. The dedication, competence and engagement of our employees continue to drive our progress. Their willingness to learn, develop and contribute new ideas helps us build a stronger company and a culture of continuous improvement.

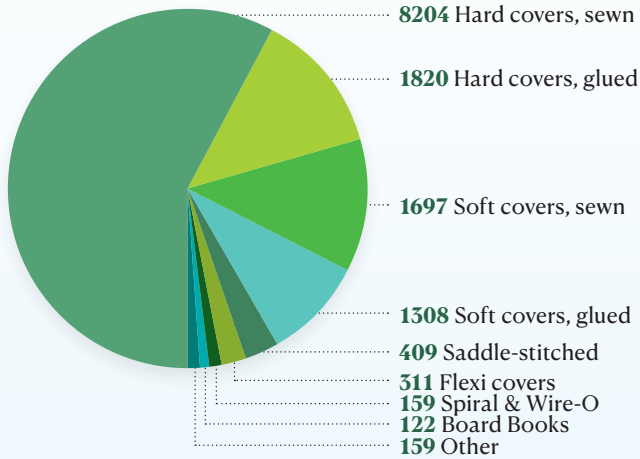
Beyond production, we continue to see ourselves as active participants in preserving and promoting the value of the printed book. Books remain one of the most trusted and enduring ways to share knowledge, ideas and stories. Supporting this cultural mission while ensuring responsible production remains an important part of our purpose.

While we are proud of the progress made during 2025, we know that sustainability is a continuous journey. New challenges will emerge, expectations will evolve, and there will always be opportunities to do better. We remain committed to learning, developing and making the right choices every day.

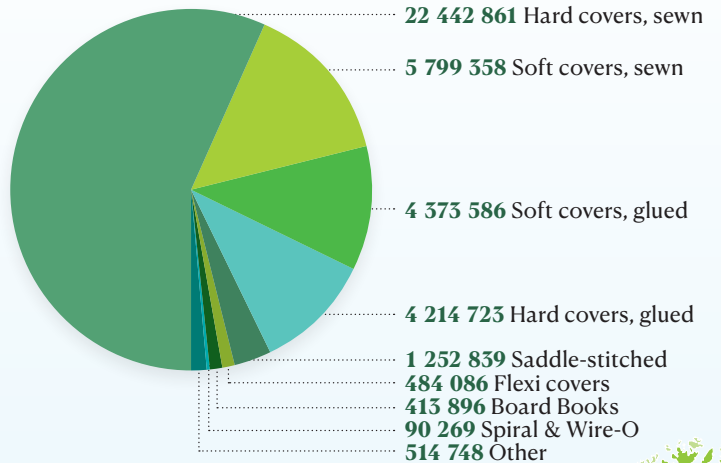
**Trond Erik Isaksen**  
CEO of Livonia Print

# Key Facts & Figures 2025

14 181  
order



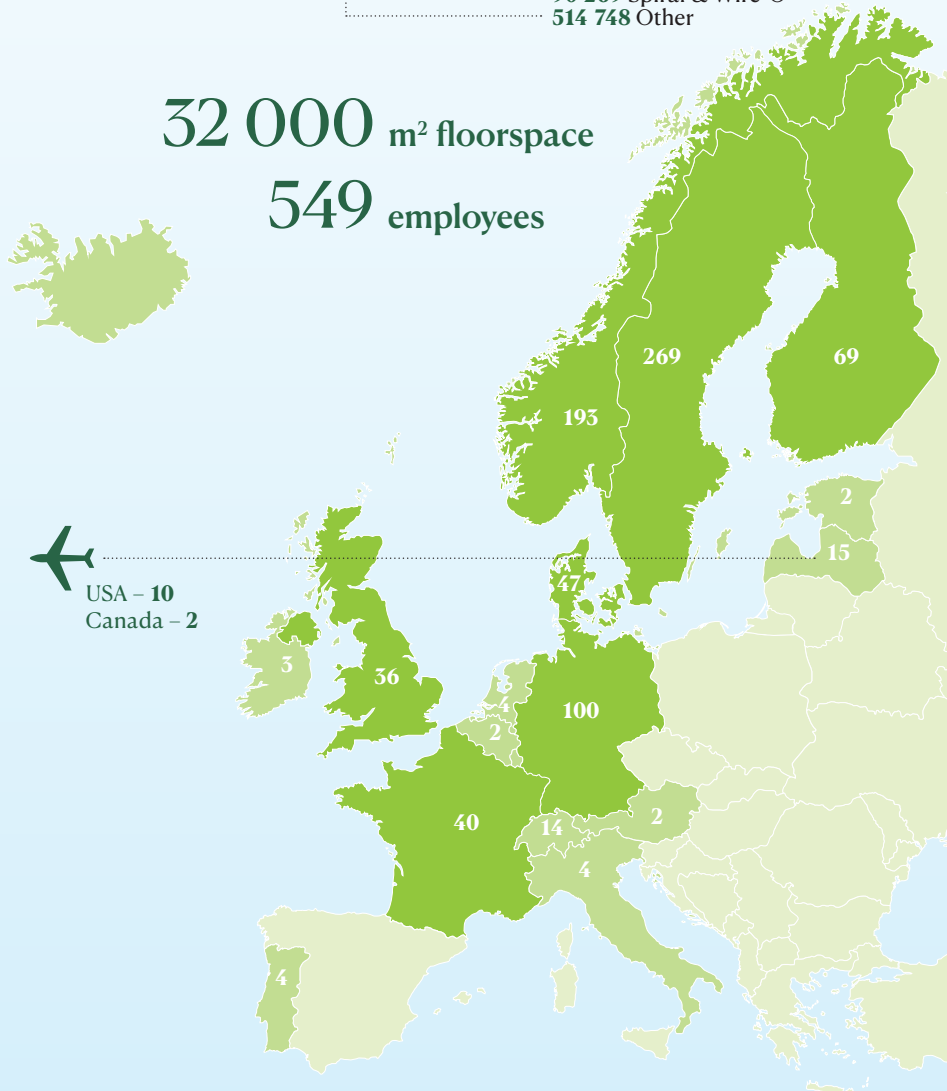
39 586 366  
copies of books



823 customers  
from 24 countries

Country Name	Number of customers	Quantity, books
Sweden	269	10 487 930
Norway	193	7 064 588
Germany	100	12 950 926
Finland	69	1 532 025
Denmark	47	4 051 868
France	40	541 109
United Kingdom	36	1 710 174
Latvia	15	73 926
Switzerland	14	755 719
USA	10	73 111
Italy	4	16 905
Netherlands	4	25 550
Portugal	4	45 670
Ireland	3	42 615
Austria	2	2000
Belgium	2	122 210
Canada	2	2160
Estonia	2	7834
Other	7	80 046
<b>Total</b>	<b>823</b>	<b>39 586 366</b>

32 000 m<sup>2</sup> floorspace  
549 employees



# Sustainability in Livonia Print

At Livonia Print, sustainability is part of everyday decision-making. It guides how we select suppliers, invest in equipment, plan production, and manage materials. Our goal is simple: to use resources efficiently and continuously improve our performance while delivering the quality our customers expect.

We believe that meaningful progress comes from many small, consistent actions that, together, help create long-term value for our customers, society, and the environment.

## Livonia Print sets company's environmental and sustainability targets, ensuring they align with the company's overall vision.

Livonia Print continues to work on these targets even if the target has already been achieved or it becomes evident that the target will not be met. For each target the company defines how they will be measured, sets key performance indicators (KPI's) and develops an action plan.

## Environmental Targets and Achievements 2020–2025

In 2020 Livonia Print was in the process of moving production to a new address, and it was not easy to predict how this would impact environmental performance. We managed to get through the paper crisis, expanded our equipment and product range, and experienced ups and downs in production volumes. All of these, along with many other factors, had an impact on our environmental targets.

The fulfillment of sustainability goals has been as follows:

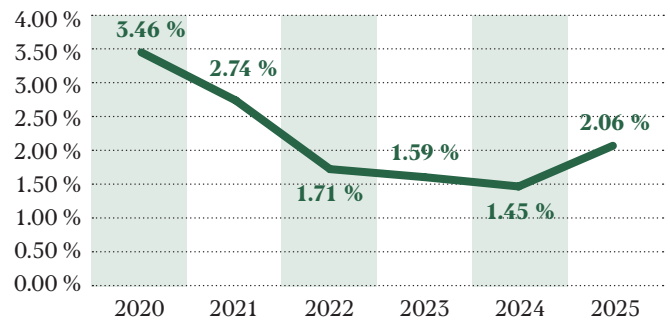
### Target No. 1

**To reduce unsorted waste amount by 20 %**

**Achieved by 40.5 %.** Unsorted waste is the only category, that is sent to landfill. In 2020 unsorted waste made 3.46 % from total waste weight, while in 2025 it made 2.06 %.

The most environmentally sound approach is to prevent waste at the source, find alternative uses for materials, and promote a circular economy. By the end of 2025, Livonia Print has **50 different sorting systems**, major part (more than 96 %) by type and weight of our waste is recycled (paper, plastic, cardboard, batteries, printing plates).

### Unsorted waste share from total waste weight

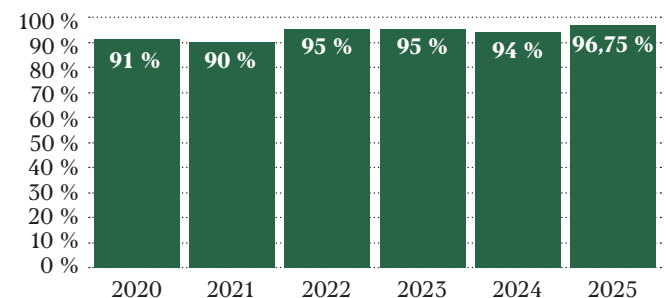


### Target No. 2

**To increase the recycled waste by 10 %**

**Almost achieved by 8.9 % increase.** This target was particularly challenging to achieve, as increasing the share of recycled waste while simultaneously reducing overall paper waste requires continuous improvement. The result reflects not only an increased proportion of recycled waste but also a significant reduction in other waste streams. Reported data includes recycled and reused waste, while materials directed to second-life applications are excluded.

### Recycled and reused waste share from total waste weight



### Target No. 3

#### To reduce water consumption by 25 %

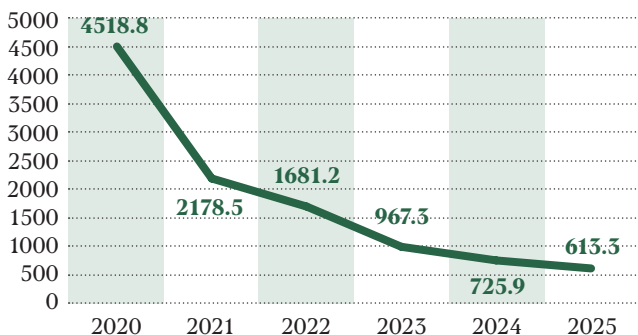
**Not achieved.** While we have placed “Save the Water” signs at every sink and remind employees to use water responsibly, domestic water use represents only a small portion of total consumption. The main water consumption consists of climate camera for paper acclimatization, humidity meters throughout the facility, and control water sprinklers to maintain optimal humidity and for other technical purposes. The water used in production cannot be reduced and this target has proven too ambitious to achieve.

### Target No. 4.1

#### To reduce absolute Scope 1 and 2 GHG emissions by 21 %

**Achieved by 87 %.** This target was largely achieved after switching to 100 % renewable electricity. Since March 2021, we have sourced 100% renewable electricity and have consistently reduced our direct emissions year on year, regardless of production volumes.

### Total Scope 1 and 2 emission (tCO<sub>2</sub>) reduction



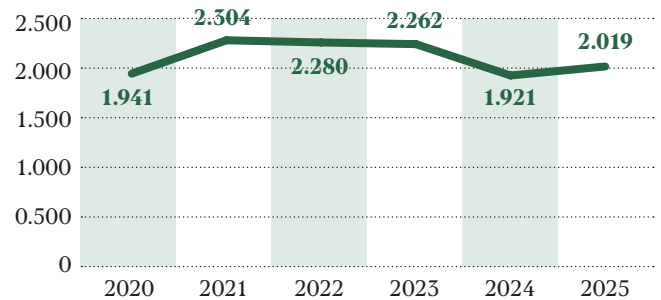
### Target No. 4.2

#### To reduce Scope 3 GHG emissions per ton of produced books by 30.4 %

**Not achieved.** Since 2020, we have continuously improved our emissions calculation methodology

with more detailed data. As paper is the largest contributor to our Scope 3 emissions, our efforts have focused on paper-related emissions, followed by upstream and downstream transportation. Improved data quality provided a more accurate picture of our emissions, while progress towards the target remains strongly influenced by customers paper selection. As a result, the target was not achieved. We continue to strengthen collaboration with paper suppliers and transport providers and expect these efforts to deliver results in the next target period.

### Scope 3 emission (tCO<sub>2</sub>) per ton of produced books



### Target No. 5

#### To reduce energy consumption per ton of produced book by 10 %

**Not achieved.** While significant attention has been given to energy savings and efficiency improvements, production has shifted towards more complex books requiring additional finishing processes. At the same time, books have become thinner and print runs shorter, which increases electricity use per copy. In absolute terms, total electricity consumption has not decreased compared to 2020.

Further information on the target progress, achievements, and related performance indicators for each target can be found in the corresponding sections of this report.



## Our Sustainability Goals 2026–2030

1. Reducing emissions:
  - a. Reduce total company Scope 1 and Scope 2 emissions by 25 %
  - b. Reduce Scope 3 emissions per ton of product by 30.4 %
2. Reducing energy consumption:
  - a. Reduce total natural gas consumption by 10 %
  - b. Reduce energy consumption per printed sheet by 1 % each year
3. Reducing the amount of unsorted municipal waste per total production volume by 40 %
4. Increase the share of recycled or reused waste by 1 %, bringing the total to 97.7 %
5. Increase the share of post-industrial recycled (PIR) materials for packaging by 7 %

# Double Materiality Assessment

In line with the European Sustainability Reporting Standards (ESRS), Livonia Print has conducted a double materiality assessment to identify the sustainability topics that are most relevant to our business and stakeholders.

Double materiality considers sustainability from two perspectives. The first is **impact materiality**, which assesses how Livonia Print's activities affect people and the environment. The second is **financial materiality**, which assesses how sustainability-related issues may create risks or

opportunities that influence the company's financial performance and long-term resilience.

The assessment covers our own operations as well as our upstream and downstream value chain, including suppliers, logistics providers, customers, and end-users. Environmental, social, and governance topics were evaluated based on their significance, likelihood, and relevance to Livonia Print's business model. The results help define our sustainability priorities, target-setting, risk management, and stakeholder engagement.

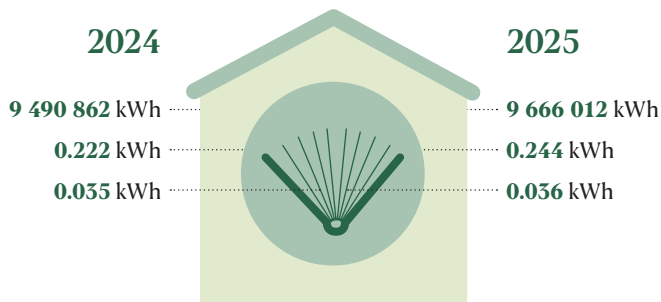
## Livonia Print assessment of environmental (E), social (S) and governance (G) topics based on their impact and financial relevance

ESRS	Topic (subtopic)	Impact Materiality	Financial Materiality	Where it occurs	Rationale
E1	Climate Change (adaptation, mitigation, energy)	High	High	Own operations, suppliers, logistics	Significant GHG emissions arise from energy use and Scope 3 activities, including paper production, purchased materials, and transport. Energy consumption influences both environmental impact and operating costs.
E2	Pollution (to air, water, soil, living organisms and food resources, substances of concern, SVHC, microplastics)	Medium	Medium	Own operations, logistics	Potential impacts relate to fuel combustion emissions, VOCs, chemical use, and paper dust generated during production processes.
E3	Water and Marine Resources	Low	Low	Upstream suppliers	Water consumption is primarily associated with paper production. Direct water use in Livonia Print's operations is limited and not considered material.
E4	Biodiversity and Ecosystems	Medium	Medium	Upstream suppliers	Indirect impacts are linked to forestry practices and paper sourcing, where responsible forest management plays an important role.
E5	Circular Economy and Resource Use	High	High	Own operations, suppliers	Efficient material use, waste reduction, recycling, and responsible sourcing are central to our environmental performance and customer expectations.
S1	Own workforce (working conditions, equal treatment, other work-related rights)	Medium	Medium	Own operations	Employee health, safety, well-being, and equal treatment are essential to maintaining a safe and productive working environment.
S2	Workers in the value chain (working conditions, equal treatment, other work-related rights)	Medium	Medium	Upstream suppliers	Responsible labour practices throughout the supply chain are increasingly important to customers, regulators, and other stakeholders.
S3	Affected communities	Low	Low	Upstream suppliers	Potential impacts are mainly indirect and associated with forestry and industrial supply chains.
S4	Consumers and End-users	Medium	Medium	Downstream	Product quality, safety, transparency, and sustainability information are important to customers and end-users.
G1	Business Conduct	Low	Medium	Own operations	Ethical business practices, compliance, governance, and transparency support long-term business resilience and stakeholder trust.

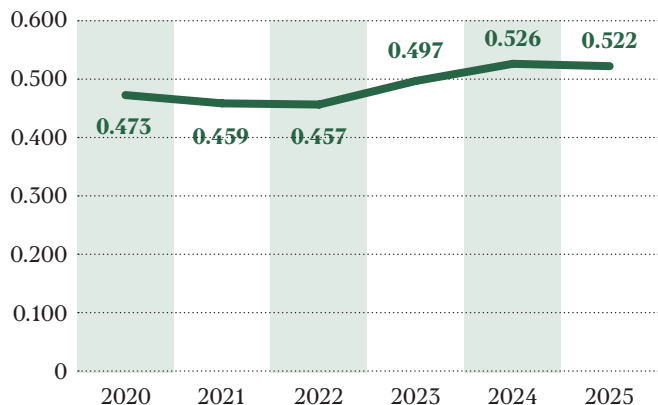
# Energy & Electricity

Since 2021 Livonia Print purchases 100 % renewable electricity. In 2025 most of the electricity sources (44 %) came from biomass combustion, followed by hydroelectric power plants (30.2 %) and biogas from waste digestion (13.7 %). To ensure transparent trading, we receive cancellation statements for all purchased electricity.

**Total** purchased electricity in 2025: 9 666 012 kWh; 0.244 kWh per average **book**; 0.036 kWh per printed **sheet**.



## Electricity consumption (kWh) per kilogram of produced books



The major improvements in 2025 included replacing old electrical transformers (three out of six in total) and upgrading circuit breaker sections. While the self-consumption of the old transformers was 2.2–2.5 %, the new transformers consume approximately 1 %, resulting in savings of 8000–10 000 kWh.

Electricity consumption is mainly based on 3 factors largely decided by customers:

1. Number of production processes and the complexity of order;
2. Number of orders;
3. Books per order.

Because of the factors named above, our electricity consumption since 2020 has increased.



On 17 June 2025 we obtained certification for the Energy Management System standard ISO 50001:2018

CERTIFIED  
ISO 50001



# Waste Management & Circularity

In 2025 Livonia Print generated **8 800 t of waste**, including paper waste, used pallets, printing plates, chemicals, and other. Total waste generated per kilogram of produced books was 0.47 kg, representing an increase of 4.3 % compared to 2024.

Livonia Print continuously evaluates its waste streams to improve waste management and circularity. Through annual environmental training and monthly inspections, we encourage employees to follow proper waste-sorting practices and understand how their everyday choices contribute to reducing environmental impacts. Many ideas to improve environmental performance and workplace practices come directly from employees via training sessions, the company's suggestion platform, or direct contact.

The largest increases were observed in paper waste and unsorted waste, while the amount of chemical waste and plastic waste decreased. The increase was primarily related to warehouse optimization activities rather than changes in the production process itself.

In 2025 we launched several projects for additional recycling solutions, such as PET strap recycling and deposit collection points for cans and bottles. As in previous years, we donated paper cut-offs to the Riga Children's Hospital, as well as offered it to our employees for personal use.

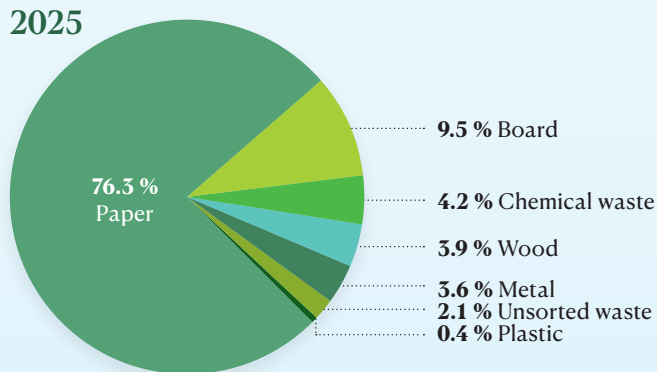
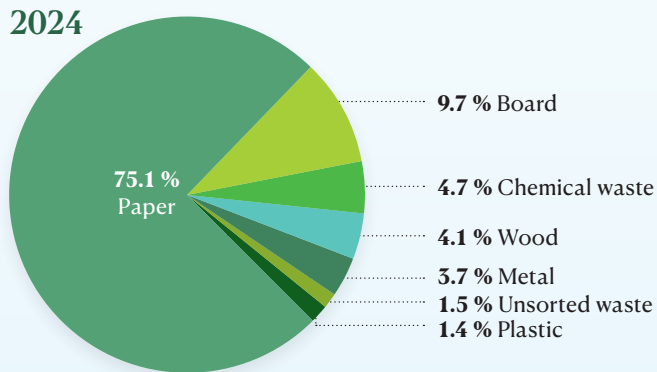


**By the end of the 2025 we have set two waste related 5-year targets (2026–2030):**

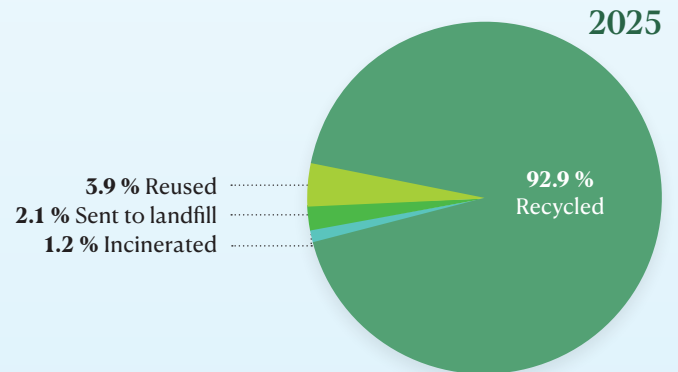
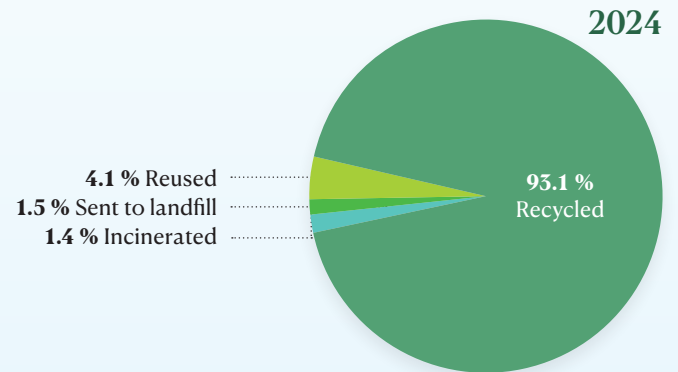
1. Reduce the amount of unsorted waste per total production volume by 40 %
2. Increase the share of recycled or reused waste by 1 %, bringing the total to 97,7 %.

Data is collected monthly to track progress against key performance indicators KPI's and to determine whether additional action is required.

**Waste Sorting**



**Waste Management Methods**



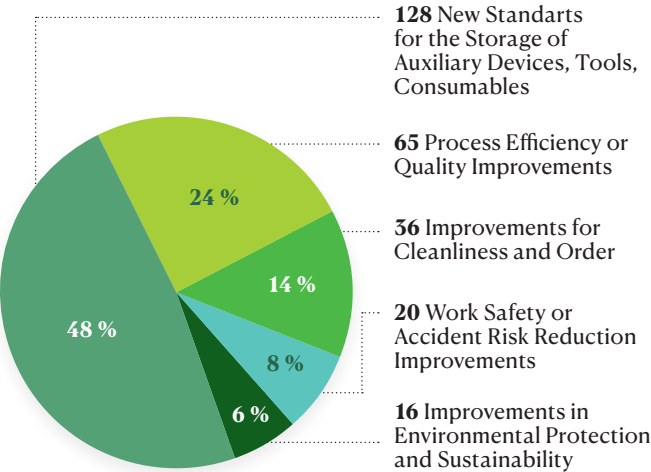
# LEAN Culture & Operational Efficiency

In 2025 Livonia Print achieved significant improvements in LEAN culture and operational efficiency, reinforcing its commitment to sustainable book production through systematic waste reduction, process optimization, and enhanced employee involvement. Between 2022 and 2024, LEAN implementation focused on employees, improving their work environment and organizing core processes through 5S.

In the first half of the year, Livonia Print continued to operate under the earlier measurement framework. However, considering the evolution of current LEAN thinking, a deliberate shift was directed in focus from formal auditing to **practical maintenance** and **continuous improvement**.

## Number of Improvements Implemented

The company implemented **277** documented improvements across production departments. These enhancements contributed to **reduced waste, optimized material flows, and strengthened workplace safety** which are the key elements of the company’s sustainability performance.

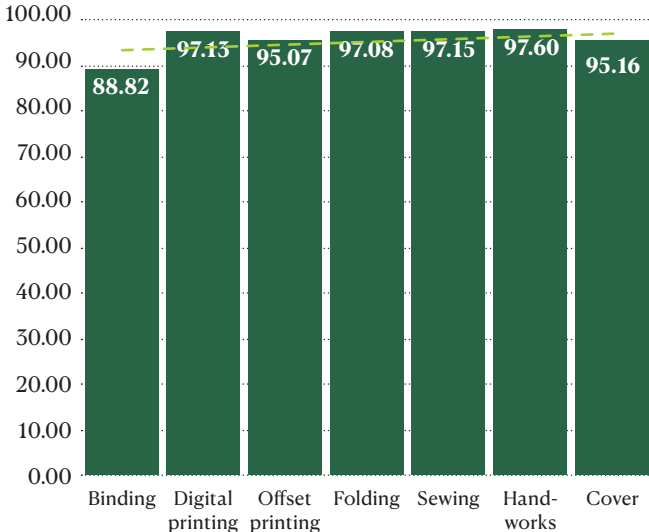


More than 50 % improvements were employee-driven initiatives proposed and implemented by team members themselves or through joint efforts with shift leads and department heads. This high level of ownership reflects genuine cultural maturation and demonstrates that continuous improvement has become embedded in daily operations rather than imposed externally.

## KPI Trends – LEAN Score Development

The primary KPI for measuring LEAN culture and operational discipline in 2025 was the 5S + Safety score, assessed weekly across all production departments. This metric evaluates workplace organization, safety compliance, and adherence to standardized processes. Throughout the year, scores remained consistently high and well above the 2025 target of no lower than 75 %. Overall 5S + Safety levels stayed above 89 % across the production floor, reflecting sustained discipline in workplace organization, safety compliance and environmental housekeeping.

### 5S + Safety average score



The decision to shift focus from formal auditing to practical maintenance and improvement resulted in simplified criteria and more efficient daily Gemba Walks. As an example of this change, in Binding scores rose sharply. From week 35 onward, the departmental average increased to 92.63 %, with most weekly scores stabilizing between 90 % and 97.7 %.

Similarly, the other departments maintained consistently high performance throughout the monitored periods, with minimum scores rarely falling below 89 % and frequent results exceeding 97 %. Variation across all departments was minimal once the new system was implemented.

## A few initiatives that defined 2025 progress

First – improvement of **daily Gemba Walks** conducted five days per week. Each walk involves representatives from departments ensuring cross-functional accountability and immediate problem resolution.

Second – a **transparent KPI tracking** was established through dedicated LEAN + Efficiency Reports and 5S + Safety Reports, all accessible to every employee via the internal intranet system. The 5S measuring system was modified and simplified to reflect the company's current LEAN maturity, resulting in greater employee participation. These tools replaced fragmented auditing with real-time visibility, enabling rapid communication of updates and issues.

Third – the **Kanban system** for material movement expanded significantly, reaching **667 cards** and **76 delivery zones** by December, with training completed across all departments. Numerous improvement projects and targeted 5S + Safety enhancements in binding, digital printing, and offset areas further improved material handling and minimized environmental impact.

## Progress Towards 2026 LEAN Targets

Progress toward the 2026 LEAN targets is anchored in a more disciplined and transparent operating cadence. The 5S and Safety score target has been set at 100 % for each department, with performance rigorously monitored on a weekly basis during structured Gemba Walks. Improvement initiatives identified through these observations will continue to drive the 2026 agenda, with a clear focus on cost reduction and company-wide efficiency gains.

Building on the so far developed foundation, 2026 will focus on further deepening employee involvement, strengthening daily KPI discipline, and embedding continuous improvement into everyday routines. The progress achieved in 2025 positions Livonia Print as a forward-thinking and responsible manufacturer, with a strong platform to drive additional efficiency gains, cost optimization, and sustainable growth in the years ahead.



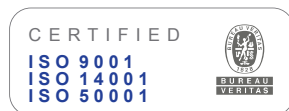
# Certifications & Management Systems

Livonia Print follows a certificate-based approach that is integrated throughout the company's management system, work culture, and processes. Quality and sustainability are based on:

- **A product** that meets and exceeds customer requirements and needs, is safe to use and complies with legislative requirements.
- **A process** that contributes to achieving the planned result, is environmentally responsible and based on LEAN principles.



## ISO standards at Livonia Print



### ISO 9001

On June 1, 2021 Livonia Print obtained a quality management system certificate in accordance with the ISO 9001:2015 standard. In order to ensure high-quality products and services, while adhering to the company's policy, mission and principles of sustainable development, Livonia Print has created a management system based on processes and procedures. This system helps to structure the company's operations, identify and eliminate potential risks in a timely manner, and ensure continuous development.

### ISO 14001

On June 14, 2022 Livonia Print obtained certification in accordance with the requirements of the ISO 14001:2015 environmental management standard, integrating it into the existing quality management system.

Caring for the environment is an integral part of the company's operations. When planning and implementing production processes, Livonia Print systematically evaluates sustainability aspects and purposefully works on more efficient use of resources.

### ISO 50001

On June 17, 2025 Livonia Print certified its energy management system according to the ISO 50001:2018 standard, integrating it into a single management system together with quality and environmental management.

The purpose of the energy management system is to ensure efficient use of energy, to optimize equipment operation, improve energy performance and reduce wasteful energy consumption.

# ESG – Environmental, Social and Governance Principles

Livonia Print is committed to operating in an environmentally responsible, socially conscious, and ethically governed manner. To support this commitment, we maintain a range of internationally recognized certifications and regularly undergo independent audits and assessments to verify compliance with environmental, social, and governance requirements.

## Nordic Swan Ecolabel

The Nordic Swan Ecolabel is a leading environmental certification based on a life-cycle approach. It sets comprehensive requirements covering resource use, climate impact, biodiversity, and the use of chemicals and substances of concern. The criteria address the entire value chain of a product, from raw material sourcing and production to use, recycling, and waste management, with the aim of reducing its overall environmental impact.

Livonia Print renewed its Nordic Swan Ecolabel certification on 2 June 2025, complying with the latest criteria updates. These updates introduced strengthened requirements related to hazardous chemicals, the phase-out of PFAS, energy performance, recyclability, and supply chain transparency. On 28 October 2025 Livonia Print successfully passed its annual inspection audit. All requirements were fulfilled, and no non-conformities were identified during the inspection.

Working closely with our paper and chemical suppliers, we are now able to offer a wider range of certified products, including board books and various binding types, all printing methods and a broad selection of certified papers.



## FSC® (Forest Stewardship Council)



The FSC Chain of Custody certification ensures that FSC-certified and other controlled materials are properly identified, segregated, and tracked throughout the supply chain. It provides assurance that products originate from responsibly managed forests and other controlled sources in accordance with FSC requirements. At Livonia Print, this certification primarily applies to paper used in book production and its main raw material, wood fibre pulp. It ensures supply chain traceability and gives customers confidence that the materials used in their products support responsible forest management and sustainable sourcing practices.

## PEFC (Programme for the Endorsement of Forest Certification)



The PEFC Chain of Custody certification ensures that wood-based materials and products are traceable throughout the supply chain and originate from sustainably managed forests and controlled sources. It provides assurance that the final product contains PEFC-certified material and complies with PEFC certification requirements.

Depending on the product category, PEFC certified products may include a mix of certified and controlled non-certified materials. The certification supports responsible sourcing, sustainable forest management, and supply chain transparency, giving customers confidence in the environmental credentials of the products they purchase.

## ClimateCalc



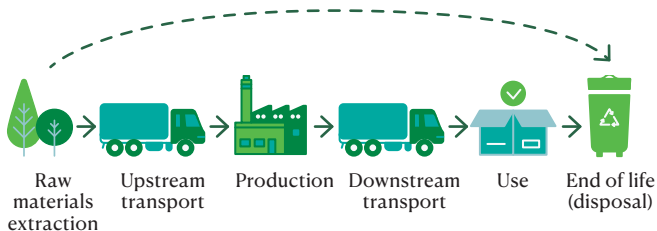
ClimateCalc is a calculation tool that provides information on the total carbon footprint of a **printed product** (such as a book) and its packaging, from the production of the paper to the delivery of the finished product to the customer, in accordance with the Greenhouse Gas Protocol. Customers use this information to support decision-making and prioritize options that help reduce their environmental impact.

## SouthPole



South Pole is an organization with which we collaborate in two ways: by conducting a full greenhouse gas (GHG) inventory from forest management to the end of the book's life cycle in accordance with the PAS 2060 standard, and by providing emissions compensation upon customer request, enabling customers to choose climate-financed books.

By the end of 2025 we also signed up to South Pole's Luumo platform, further strengthening our ability to track, manage, and support climate impact initiatives in a more structured and transparent way.



## Book Chain Project



Livonia Print is participant in The Book Chain Project – system whose participants (publishers, printers, paper manufacturers) share information helping to make more sustainable decisions in book production. Our paper list is up-to-date, annual Environmental Questionnaire submitted since 2019.

## SMETA audit and ethical business principles



Livonia Print successfully undergoes SMETA (Sedex Members Ethical Trade Audit) 7-pillar audits, demonstrating the company's commitment to high standards of ethical business conduct, social responsibility, environmental performance and business ethics beyond the core labour, health and safety, and management systems requirements. The SMETA audit is based on the Ethical Trading Initiative (ETI) Base Code, which is founded on the conventions of the International Labour Organization (ILO). These internationally recognized standards promote fair, safe, and respectful working conditions throughout the workplace. The audit assesses compliance with both international standards and applicable local legislation, providing a comprehensive and objective evaluation of the company's practices and performance.

By meeting SMETA requirements, Livonia Print demonstrates its commitment to employees, customers, suppliers, and society, while contributing to a responsible, transparent and sustainable business environment.

# Product Safety, Material & Regulatory Compliance

## **EUDR (EU Deforestation Regulation)**

Livonia Print produces books (HS 49), which are outside the scope of the EUDR. However, paper (HS 48), the main material, falls within its scope. Traceability system is in place to ensure that material flows can be linked to specific purchases at any time.

## **PPWR (Packaging and Packaging Waste Regulation)**

We ensure full traceability of all packaging materials used in our operations. All packaging materials are recyclable. We continuously optimise packaging use and work towards compliance with the requirements of the PPWR.

## **EmpCo Directive (Directive on Empowering Consumers for the Green Transition)**

In its marketing material Livonia Print relies on certification-based and verified data. While clients hold responsibility for the content of their books, we provide guidance on environmental claims and help identify statements that may be misleading or not compliant with relevant requirements.

## **CSRD (Corporate Sustainability Reporting Directive)**

Livonia Print is out of scope of the CSRD. However, we systematically collect environmental, consumption, equipment, and other sustainability-related data. This enables us to provide relevant information to our customers, including large publishers.

**The Toy Safety Regulation** provides a legal framework to protect children under 14 from physical, chemical, electrical, and hygiene hazards. It introduces strict limits on harmful substances, requires appropriate warning labels, and ensures safe mechanical design, strengthening requirements compared to the current Toy Safety Directive. Whenever changes are made to materials used in children's books—particularly board books, such as new cardboard or inks—the sample product is tested by an accredited laboratory to verify compliance with EN 71 standards. So far, we have tested and can confirm compliance for 8 types of books.

## **REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals)**

Livonia Print ensures that all materials used in our book production, such as inks, varnishes, foils, adhesives, lamination films, paper, and paperboard, comply with REACH requirements. Every year we request compliance statements from our suppliers, relevant materials and avoid the use of substances included on the REACH Candidate List of Substances of Very High Concern (SVHC).

*Our material compliance statement can be found in our homepage.*

## **GPSR (General Product Safety Regulation)**

We ensure traceability of products and materials used in production. Upon request, we provide publishers with a Bill of Materials supported by Safety Data Sheets (SDS) from our suppliers, ensuring transparency on material composition. We produce books in line with internal procedures and use compliant materials. Under GPSR, the publisher is considered the manufacturer of the book and is responsible for required product information, including contact details, ISBN, and edition. We support compliance by providing relevant product and material data.

# Climate Action & Emissions



## Carbon Account

**Company:** LIVONIA PRINT  
**Address:** Jurkalnes iela 15/25  
**City:** LV-1046 RIGA  
**Country:** LATVIA  
**Accounting period:** 01.01.2025 - 31.12.2025  
**Scope 2:** Market-based  
**Basic year:** 2018  
**Responsible for the account:** Ilze LIEPINA  
**Certificate number:** CC-000090/LV  
**The account includes:** Sheetfed/ Web heatset/ Digital Printing

**Total quantity of delivered products:** 18.586 t  
**Total emissions of greenhouse gases (Scope 1+2+3):** 24.665 t CO<sub>2</sub> eq  
**Total energy consumption (Scope 1+2):** 46.284 GJ  
**Waste substrate:** 29%  
**Key figures: (Scope 1+2+3)** 1.327 kg CO<sub>2</sub> eq/t  
**Key figures: (Scope 1+2)** 2.490 MJ/t

🔄 Emissions from activities	Company related	Product related	Total emissions	
Burning of fuel in stationary burning units at the company	637 t CO <sub>2</sub> eq		637 t CO <sub>2</sub> eq	3%
Burning of fuel in own or leased vehicles	11 t CO <sub>2</sub> eq	0 t CO <sub>2</sub> eq	11 t CO <sub>2</sub> eq	0%
<b>🔄 Direct emissions (Scope 1)</b>	<b>648 t CO<sub>2</sub> eq</b>	<b>0 t CO<sub>2</sub> eq</b>	<b>648 t CO<sub>2</sub> eq</b>	<b>3%</b>
Purchase of electricity	0 t CO <sub>2</sub> eq		0 t CO <sub>2</sub> eq	0%
Purchase of district heating	0 t CO <sub>2</sub> eq		0 t CO <sub>2</sub> eq	0%
<b>🔄 Energy indirect emissions (Scope 2)</b>	<b>0 t CO<sub>2</sub> eq</b>		<b>0 t CO<sub>2</sub> eq</b>	<b>0%</b>
Production of substrate		10.203 t CO <sub>2</sub> eq	10.203 t CO <sub>2</sub> eq	41%
Transportation of substrate (incl. upstream)		2.986 t CO <sub>2</sub> eq	2.986 t CO <sub>2</sub> eq	12%
Production of printing ink and varnish		765 t CO <sub>2</sub> eq	765 t CO <sub>2</sub> eq	3%
Production of PE- and cardboard packing		436 t CO <sub>2</sub> eq	436 t CO <sub>2</sub> eq	2%
Transportation of products to and from subsupplier		0 t CO <sub>2</sub> eq	0 t CO <sub>2</sub> eq	0%
Transportation of products to the customer		5.538 t CO <sub>2</sub> eq	5.538 t CO <sub>2</sub> eq	22%
Production of fountain solution and cleaning agents	94 t CO <sub>2</sub> eq		94 t CO <sub>2</sub> eq	0%
Production of plates and cylinders	3.063 t CO <sub>2</sub> eq		3.063 t CO <sub>2</sub> eq	12%
Employee's commuting to and from work (incl. upstream)	282 t CO <sub>2</sub> eq		282 t CO <sub>2</sub> eq	1%
Emissions from production of purchased fuel	649 t CO <sub>2</sub> eq	0 t CO <sub>2</sub> eq	649 t CO <sub>2</sub> eq	3%
<b>Other indirect emissions (Scope 3)</b>	<b>4.089 t CO<sub>2</sub> eq</b>	<b>19.928 t CO<sub>2</sub> eq</b>	<b>24.017 t CO<sub>2</sub> eq</b>	<b>97%</b>
<b>🔄 Total (Scope 1+ 2+3)</b>	<b>4.737 t CO<sub>2</sub> eq</b>	<b>19.928 t CO<sub>2</sub> eq</b>	<b>24.665 t CO<sub>2</sub> eq</b>	<b>100%</b>

According to ClimateCalc calculations for 2025, Livonia Print's total emissions amounted to 25,134 tCO<sub>2</sub>e (market-based) or 28,502 tCO<sub>2</sub>e (location-based), representing a 7.4 % reduction compared to 2024. In 2025 we completed 217 product-specific carbon footprint calculations at our customers' request. Interest in book-related emissions data remains strong, and the carbon footprint of paper has increasingly become an integral consideration alongside quality, technical performance, availability, and cost. As a result, lower-emission paper options are now embedded in both our standard offering and customer purchasing decisions.

Livonia Print continues to prepare an annual Greenhouse Gas (GHG) emission report in accordance with the GHG Protocol in collaboration with South Pole. For 2025 Livonia Print began conducting GHG calculations for the reporting year more independently, using South Pole's **Luumo platform** and integrating ClimateCalc emission factors to achieve more detailed emissions data for purchased materials.

	2021	2022	2023	2024	2025
Scope 1	1332.80	1424.10	967.30	725.90	613.32
Scope 2	845.7	257.1	0	0	0
Scope 3	59 986.20	59 292.50	40 074.20	34 664.80	37 354.26

Methodological updates, category reclassifications, and improvements in data granularity shows that the data is not fully comparable year-on-year.

According to South Pole's GHG report, Livonia Print's total greenhouse gas (GHG) emissions for 2025 are estimated at 37 967.59 t CO<sub>2</sub>e. This corresponds to an average emission intensity of 2.05 kg CO<sub>2</sub>e per kg of produced book. Overall, emissions increased by 7.28 % compared to 2024.

More specifically Scope 3 emissions increased, mainly due to improved reporting and more detailed activity data provided for several emissions categories. The most significant increase was observed in upstream transportation and distribution, as well as waste generated in operations and capital goods emissions.

At the same time, several major Scope 3 categories decreased year-on-year, such as purchased goods and services emissions (by 9 %), primarily due to lower paper-related emissions with the production of paper purchased by Livonia Print. Downstream transportation and distribution emissions decreased by 24 %, while employee commuting emissions decreased by 36 %.

### Our next emission reduction 5-year targets (2026–2030) are:

1. Reduce total company Scope 1 and Scope 2 emissions by 25 %

This is an absolute target. As a significant share of electricity consumption is already covered by renewable electricity and various energy efficiency measures have been implemented, further emission reductions are linked to ongoing improvements in operational efficiency, facility performance, and investments in production technology.

2. Reduce Scope 3 emissions per ton of product by 30,4 %

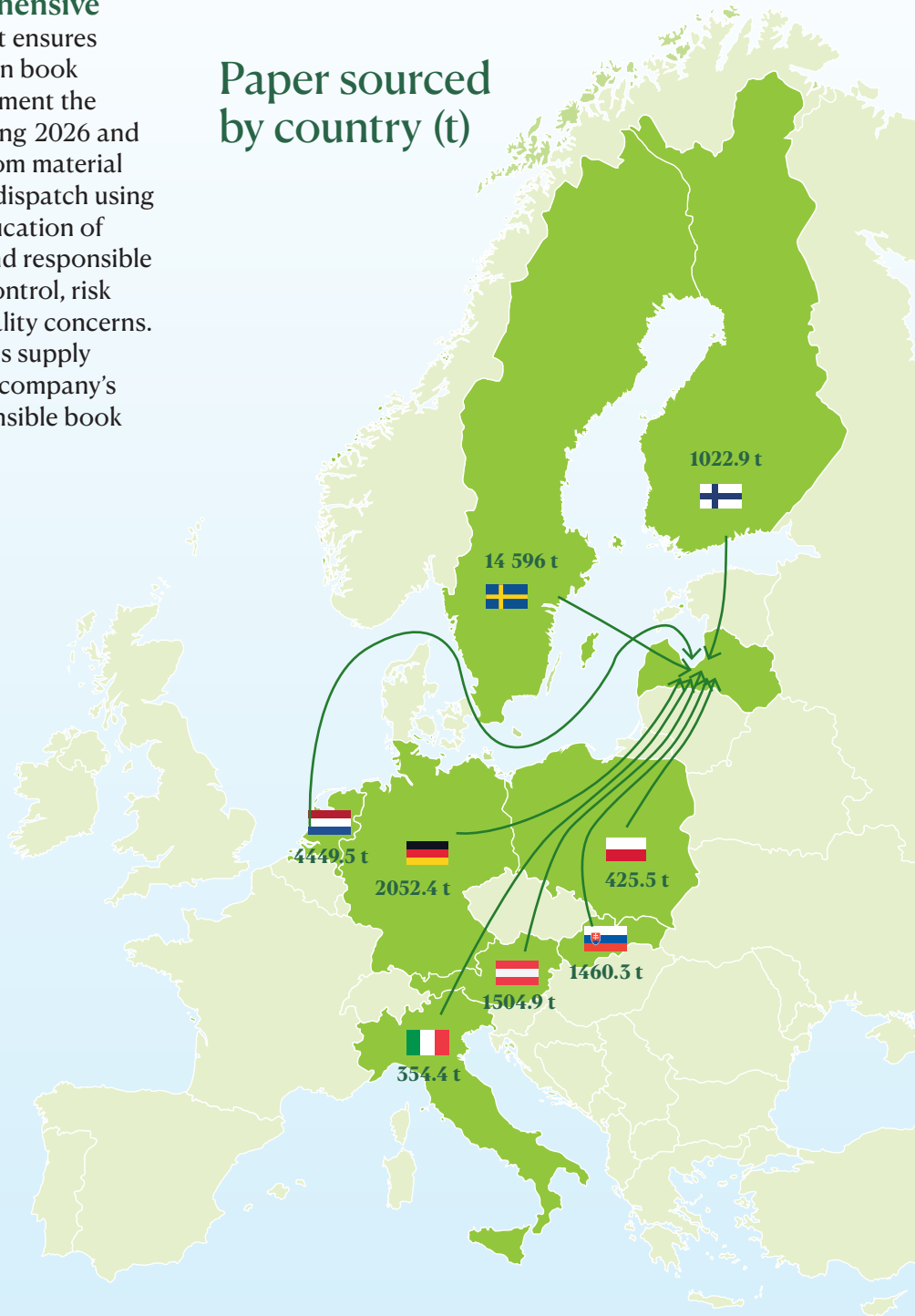
This intensity-based target reflects the strong correlation between Scope 3 emissions and production volumes in our operations. Progress towards this target is supported by continuous monitoring of paper-related emissions and ongoing cooperation with suppliers, including initiatives related to material selection and supply chain efficiency.

# Supply Chain

We source paper exclusively from **European suppliers** and do not engage in procurement from countries subject to international sanctions or considered aggressor states.

Livonia Print implemented a **comprehensive material traceability system** that ensures full visibility of paper and board used in book production with further plans to implement the same principles to other materials during 2026 and 2027. Materials are digitally tracked from material receipt through printing to final book dispatch using batch identification. This enables verification of material origin, quality, compliance, and responsible sourcing while supporting inventory control, risk management, and fast response to quality concerns. The traceability framework strengthens supply chain transparency and reinforces the company's commitment to sustainable and responsible book manufacturing practices.

## Paper sourced by country (t)





Livonia Print conducts an **annual risk assessment** of all standard and regular suppliers. The assessment is designed to identify and manage risks that may affect business continuity, product quality, sustainability performance, and supply chain resilience.

Suppliers are evaluated across several categories covering the key factors that may impact Livonia Print's operations:

**Financial performance** – invoice accuracy and timeliness, financial stability, and key financial indicators.

**Supply chain and logistics** – supplier substitutability, lead times, flexibility, delivery performance, and price volatility.

**Products and materials** – packaging, product identification and traceability, shelf-life management, and risks related to EUDR compliance.

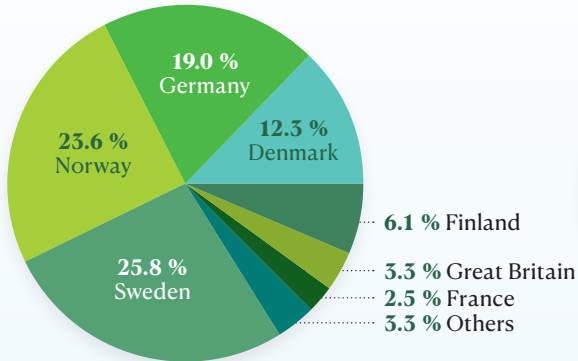
**Quality management and non-conformities** – certifications held, quality performance, non-conformity statistics, and response times.

**Environmental performance** – compliance with REACH and SVHC requirements, environmental certifications, manufacturing practices, and other relevant environmental aspects.

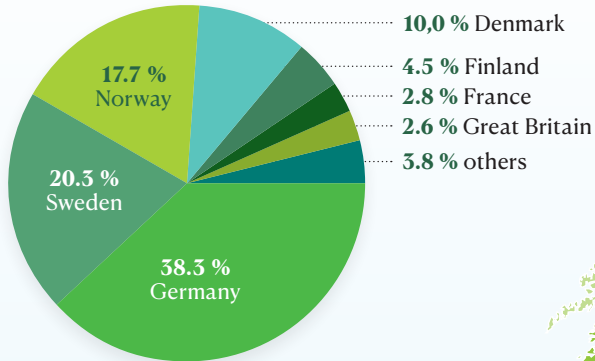
The assessment is carried out using a risk matrix. Each criterion is assigned a weighting based on its potential impact on Livonia Print's operations, ranging from 1 (low impact) to 3 (high impact). Individual evaluation criteria are scored according to predefined assessment methodologies and converted into risk scores. For suppliers classified as high risk, mitigation measures are identified and implemented, and the business relationship is reviewed to ensure that identified risks are appropriately managed.

# Transport & Packaging

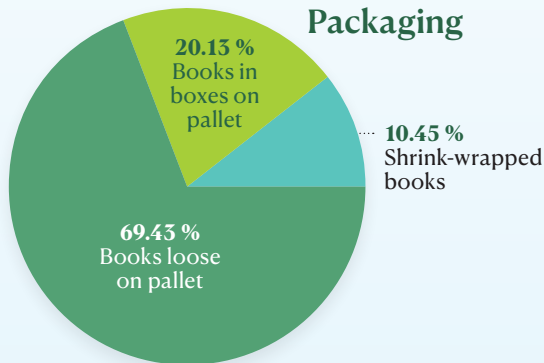
## Transported orders in 2025



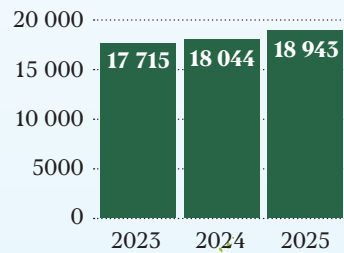
## Transported weight in 2025



## Packaging



## Total netto weight (t)



**Protective pallet corners**  
95 % recycled

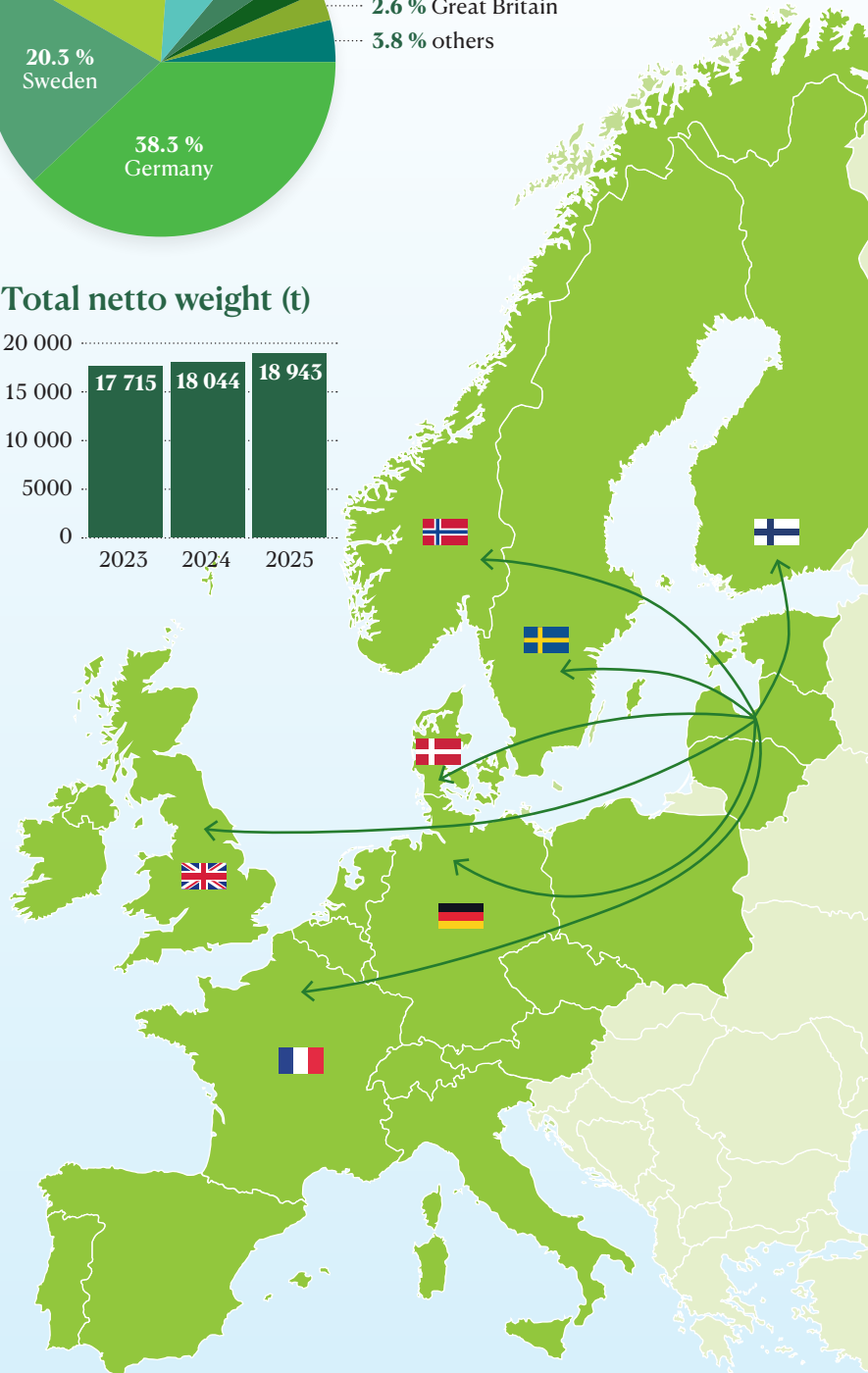
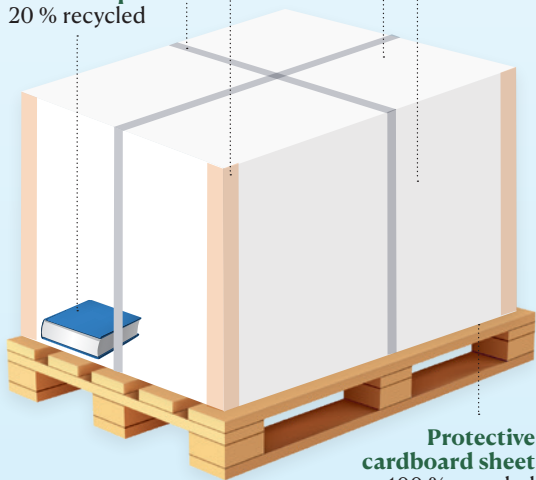
**Plastic pallet straps**  
50–100 % recycled

**Individual book shrinkwrap**  
20 % recycled

**Plastic cover**  
100 % recycled

**Pallet shrinkwrap**  
30 % recycled

**Protective cardboard sheet**  
100 % recycled



# People & Social Responsibility

## Employees & Culture

Our employees remain the cornerstone of our success. The dedication and expertise of our approximately 550 employees make it possible to deliver nearly 15,000 projects and produce around 40 million books each year. Their contribution is at the heart of everything we achieve.

In 2024 we established our Gender Diversity and Inclusive Workplaces strategy, reinforcing our commitment to a human-centred manufacturing environment, where people and technology work together to create sustainable and efficient production systems. We continue to believe that attracting more women to the manufacturing sector is essential for its long-term development and success. By investing in a supportive, inclusive and accessible workplace, we increased the proportion of women in our workforce during 2025.

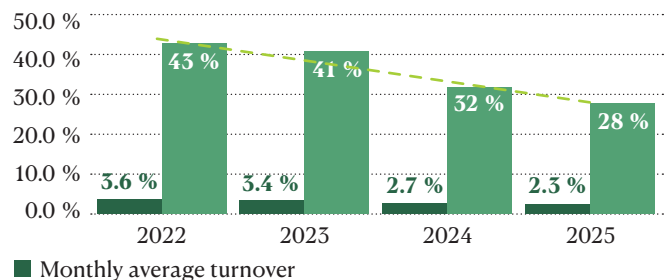
During a period of growing geopolitical and economic uncertainty, we remain committed to providing our employees with stable and predictable employment, safe and healthy working conditions, and fair remuneration that enables a good quality of life for them and their families.

Our SMETA audit was completed without any remarks or recommendations for improvement, confirming full compliance with the ETI Base Code and alignment with internationally recognised human rights and workplace standards.

For a standard working month, employee wages and benefits exceed the national average salary by 10 % and are 2 % higher than the manufacturing industry benchmark, supporting our commitment to fair and competitive remuneration.

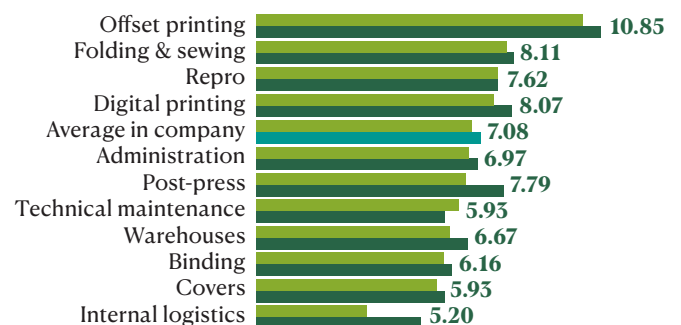
Over the past four years, we have worked purposefully to reduce employee turnover and improve retention. In 2025 we achieved our target of keeping monthly turnover below 2.5 %, while voluntary turnover remained below 20 %.

### Total employee turnover



The average length of service continues to increase across the company and within individual departments. In 2025 average employee tenure exceeded 7 years, compared with 6.8 years in 2024. This positive trend demonstrates the effectiveness of our long-term efforts to improve employee retention and create an attractive workplace.

### Duration of employment 2024/2025 (years)





## Training and Engagement Initiatives

In 2025 Livonia Print conducted its employee engagement and satisfaction survey for the third consecutive year. To gain deeper insight into employee wellbeing, the survey was expanded to include a dedicated wellbeing assessment.

The results showed that employees generally find their work meaningful, engaging and rewarding. At the same time, the survey highlighted opportunities to further strengthen work-life balance and support employees' physical and mental wellbeing.

In response, all department managers participated in training focused on creating a psychologically safe work environment. We also introduced several welfare initiatives based on employee feedback, including a healthy snacks and vitamin programme for production employees, increased availability of fresh fruit in office areas, and a series of summer street food days that promoted both wellbeing and team spirit.



We continued our annual tradition of recognising outstanding employees, celebrating both professional excellence and collegiality. Each year, we honour the recipients of our Quality Award, recognise the department with the strongest occupational health and safety performance, and celebrate employees who have made an exceptional contribution to the company.

The 2025 awards ceremony was particularly memorable, reflecting the strong sense of appreciation, teamwork and mutual respect that characterises our workplace culture.

To ensure transparent and consistent information sharing across the company, Livonia Print uses the **internal communication platform NEXT**.

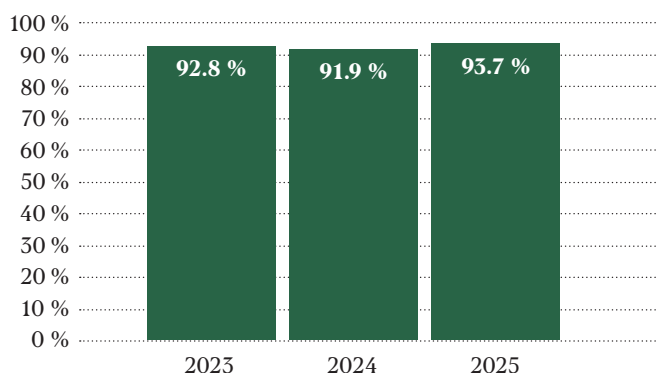
During 2025 we further expanded the platform and digitalised our Occupational Health and Safety section. In addition to daily communication and company announcements, NEXT serves as a central hub for employees, providing access to company information, annual objectives, policies, guidelines, remuneration regulations, document templates, quality management documentation, occupational health and safety procedures, workplace risk assessments, weekly safety and 5S inspection results, training materials and other resources.

By making key information easily accessible, NEXT supports employee engagement, strengthens internal communication and helps ensure that all employees are informed about company developments, requirements and opportunities.

## Health & Safety

Livonia Print continued to strengthen our occupational health and safety culture. During the year, our internal safety index improved to 93.7 %, placing us within our target range of 93–95 %.

### Internal safety index 2023–2025



A positive trend was also observed in employees' perception of workplace safety. While in 2024, 70 % of employees agreed that their workplace was safe and 25 % were neutral, in 2025 the share of neutral responses decreased to 20 %, while the proportion of employees who agreed increased to 77 %. These results indicate growing employee confidence in the safety of the working environment and reflect the effectiveness of our ongoing efforts to strengthen our health and safety culture.

It is important to note that 2025 saw an increase in the number of reported near misses and hazardous situations. We view this trend positively, as it indicates that employees have become more aware of potential risks and more confident in reporting them.

A significant improvement was achieved in fire safety performance during 2025. No fire incidents were recorded throughout the year, compared with one to two incidents annually in previous years. This result demonstrates the effectiveness of the preventive measures, regular inspections and employee training implemented across the company.

Throughout the year, we organised a range of health, safety and fire safety training activities, combining internal training sessions with external professional courses, covering specific topics such as forklift operation, the use of personal protective equipment when handling sharp objects, and working at height. We also successfully conducted evacuation drills during both day and night shifts, helping to ensure that employees are prepared to respond effectively in emergency situations.

# Education & Community

In 2025 our internal training platform Livonia Print School operated at full capacity. In total, we have internally trained 117 employees to work with various production equipment.

We organized trainings on the Muller Martini bookbinding lines, several LEAN trainings, project management and management skills workshops, with a support of EU funding.

In addition to traditional in-person training, within the framework of the Livonia Print School, work was done on indirect training methods and materials; specifically, a series of standard operating procedure (SOP) visualizations were developed to make it easier for production employees to navigate the specifics of various products on a daily basis.



## Community engagement and donations

Supporting the communities in which we operate remains an important part of Livonia Print's social responsibility approach. During 2025 we contributed EUR 4000 to the charitable initiative "Dod Pieci!" (to help children and young people with neurological movement disorders, providing funding for rehabilitation therapies) and a further EUR 4000 to the Latvian Paralympic Committee, supporting the preparation of Latvian athletes for qualification for the Los Angeles Paralympic Games. Through this contribution, we aim to promote inclusion, equal opportunities and the development of para sport in Latvia.

In 2025 we donated coloured paper to the Latvian Children's Support Foundation, helping to provide creative and educational activities for children participating in rehabilitation, development and social support programmes. The Foundation works across a range of areas, including family support, health, education, personal development, sport and culture, while also organising summer camps for children with special needs and those affected by violence.

In addition, we supported the Latvian school "Sauleszaķēns" in Copenhagen through donations of coloured paper. This contribution helps promote the preservation of the Latvian language, culture and sense of belonging among Latvian children living abroad.

Through financial contributions, material donations and community partnerships, we seek to create a positive social impact and support initiatives that contribute to wellbeing, inclusion and educational development both in Latvia and internationally.



## Partnering for Sustainable Book Production

Building on the principles outlined in our *Make the Right Choice* initiative, we continued to work closely with publishers, designers and production teams throughout 2025, helping them translate sustainability considerations into practical decisions and finished products.

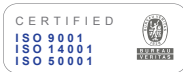
Through customer visits, workshops, book fairs and day-to-day project collaboration, we shared our experience on topics such as paper selection, book formats, cover materials, embellishments and production methods. Our goal is not to limit creativity, but to help identify solutions that balance design ambitions, product quality, cost efficiency and environmental considerations.

One of the most rewarding aspects of this work is seeing these **ideas reflected in the books we produce**. Increasingly, we encounter projects where publishers have consciously chosen more sustainable materials, optimised formats or reduced unnecessary production elements without compromising the quality or visual appeal of the final product.

These examples demonstrate that sustainable book design is no longer a theoretical concept, but a practical approach that is being successfully applied across the industry. We are grateful to our publishing partners for their openness, trust and willingness to explore new solutions together. Their engagement and collaboration remain the strongest confirmation that this shared effort is creating meaningful and lasting results.







© Livonia Print 2026  
Photos by Eva Veitnere  
and Livonia Print team  
Design: Oskars Stalidzans