VOITH

2025

Voith ESG Additional Information

Voith Paper

Social

Product design and development: a. Tests and assessments	Necessary safety tests and the corresponding documentation are implemented via internal ERP systems in line with Voith Quality Specifications (VQS). These include the technical specifications, the test specifications, and the quality assurance agreement for products and product groups. Mandatory tests (e.g. dimensional, magnetic particle, dye penetrant, or ultrasonic tests) are used to fundamentally test possible impacts on the environment, health and safety. These tests are carried out on the basis of clearly defined specifications and checklists. Various tools are used to continuously improve processes, such as Ishikawa analysis, FMEA, and A3 or 8D reports. Since mid-2022 we have also applied the Design Review Based on Failure Mode (DRBFM) method, describing and logging it in the stage-gate development process and the corresponding adjusted work instructions.
Product design and development: a. Coverage of tests and assessments	Applicable safety testing, documentation, and verification requirements are 100% implemented.
Customer support and protection: a. Safety data sheets	Product safety and information security considerations are integrated throughout the internal value chain through certified product development processes, defined safety measures, and alignment with applicable standards such as IEC 62443, ISO 27001, and the General Data Protection Regulation (GDPR). Specially trained employees conduct risk assessments during the product development process. Virtual walk-throughs based on detailed 3D designs are used to identify potential safety deficiencies at an early stage. Standard products and components are tested as prototypes in industrial applications as part of the stage-gate process prior to market launch, where applicable. For example, all roll covers and QualiFlex press sleeves under development undergo extensive service life and load testing, which is documented within the PDP process. In addition to verifying performance, these activities include the assessment of safe operation. Required validations are conducted as part of internal testing, factory assembly, and commissioning activities. Quality experts are involved throughout the project lifecycle and support quality assurance from order receipt through customer handover.
Customer support and protection: a. Coverage of safety data sheets	Applicable product safety, information security, testing, and validation requirements are 100% implemented.
Customer support and protection: b. Customer training and counselling	Voith Paper conducts required training directly at paper machines during scheduled service visits. These training sessions are designed to support effective knowledge transfer by taking place directly in the operating environment where the products are used. In addition, Voith Paper customers have access to experts through the OnPerformance.Lab and other remote support channels for technical guidance, troubleshooting, and collaborative problem solving. Digital solutions within the portfolio, including OnCumulus, OnView, and OnEfficiency, include service and support capabilities through the OnPerformance.Lab to help customers achieve sustainable operational improvements and optimize system performance.

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Customer support and protection: b. Coverage of customer training and counselling	Applicable customer training, support, and service requirements are 100% implemented.
Customer support and protection: c. Monitoring of products during use phase	During the use phase, product safety and operational performance are supported through a standardized product monitoring process defined in documented procedures and work instructions. The monitoring process includes observations and feedback related to Voith products in operation as well as relevant products and technologies available in the market, including competitor offerings.

Environment

Life cycle assessments: a. Assessed aspects	We mainly supply components that, as part of an overall system, have differing energy and material footprints. We use a range of instruments to gain an even more detailed understanding of our products' energy and raw material efficiency and thus enable optimum resource utilization in the use phase. In the case of products, we sometimes work with Life Cycle Assessments (LCA) in accordance with DIN ISO 14040 and 14044 (are used to analyze the potential environmental impact of a product system over its full lifecycle), and with Product Carbon Footprint (PCF) calculations in accordance with ISO 14067. Life cycle assessments cover the following aspects: energy and raw material efficiency. Product Carbon Footprint (PCF) calculations / GHG emissions, hazardous substances (carcinogenic, non-carcinogenic, and ecotoxicity), substances in the REACH Regulation, and use of energy, and water.
Life cycle assessments: b. Life cycle phases	Depending on the product type and project objective, Life Cycle Assessments (LCAs) and Product Carbon Footprint (PCF) calculations may be conducted using different system boundaries. These assessments can cover various phases of the product lifecycle, including raw material extraction, production and processing, transport, use, and end-of-life. We mainly supply components that, as part of an overall system, have differing energy and material footprints. We use a range of instruments to gain a detailed understanding of our products' energy and raw material efficiency and to support resource-efficient decision-making during product development and use. In the case of products, we also conduct Life Cycle Assessments (LCAs) in accordance with ISO 14040 and ISO 14044, as well as Product Carbon Footprint (PCF) calculations in accordance with ISO 14067. These methodologies are used to analyze the potential environmental impacts associated with a product system over defined stages of its lifecycle. For cradle-to-gate assessments, LCAs and PCFs are calculated from raw material extraction to the factory gate. Our customers can use the results of these calculations as input for their own environmental assessments. For cradle-to-grave assessments, LCAs and PCFs are generated across the full product lifecycle, from raw material extraction through end-of-life treatment. These calculations are primarily used internally in product development

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	and may include the lifecycle phases of raw material extraction, production and processing, transport, use, and end-of-life management.
Life cycle assessments: c. International standards	Life cycle assessments are carried out in accordance with ISO 14040/14044/14067. In the case of products, we also use Life Cycle Assessments (LCA) in accordance with DIN ISO 14040 and 14044 (used to analyze the potential environmental impact of a product system over its full lifecycle), and Product Carbon Footprint (PCF) calculations in accordance with ISO 14067.
Life cycle assessments: d. Publication of results	Depending on product type and project objective, LCAs/PCFs are calculated within two different system boundaries. For the first of these, LCAs/PCFs are calculated for the cradle-to-gate system boundary, i.e. from raw material extraction to the factory gate. Our customers can then use the results of these calculations for their own analysis.
Extension of useful product life: a. Longevity	Based on assessments and evaluations conducted across our Group Divisions, Voith has identified the following key areas of action regarding product responsibility: • Product and service quality and reliability • Product safety • Product longevity • Resource efficiency • Reduction of environmental impacts throughout the product lifecycle Product longevity is an important consideration in the design and development of Voith Paper products. Many products and systems are designed to support long operational lifecycles, and paper production equipment is typically operated for several decades, supported by maintenance, refurbishment, modernization, and rebuild activities throughout its service life.
Extension of useful product life: b. Repairability	The machines and systems of the Voith Paper Group Division are designed for long service life and maintainability. Many installations remain in operation for more than 20 years and can be modernized through rebuilds, upgrades, and retrofit measures to meet evolving technical and operational requirements. These measures can contribute to extending the service life of equipment and support resource-efficient operations over extended periods. Within the context of the circular economy, repairability, refurbishment, and upgradeability are important considerations in the design and lifecycle management of our equipment. Together with our customers, we support the establishment of suitable operating conditions during plant installation and commissioning. Service audits provide opportunities to assess, recondition, repair, or upgrade individual machine components and production sections where appropriate. For example, build-up welding of rotors used in stock preparation machines can improve operating performance and may contribute to reductions in energy and raw material consumption. Regular maintenance activities and

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	documented service records provide transparency regarding equipment condition and support reliable operation and lifecycle extension. Mechanical repairs, refurbishment measures, and upgrades to rolls, performed either in Voith workshops or at customer sites, help extend the useful life of rolls used in paper machines. Demand for these services continues to support the development of this business segment. For wear parts such as roll covers, which provide a functional surface on a steel roll, Voith has developed refurbishment and replacement solutions that focus on replacing worn components where technically feasible. This approach helps reduce material consumption and supports both environmental and economic objectives.
Extension of useful product life: c. Upgradability	Given that Voith Paper operates in the large-scale plant business, characterized by high capital expenditures, our machines are designed to be operated for decades before a completely new plant is purchased. Therefore, we design our machines to allow modifications at any time before the entire plant is replaced. By using the latest technology in these modifications, the machine receives an upgrade, ensuring 'upgradability'. Voith Paper has even dedicated a specific business case towards this upgradability: Rebuilds, focusing on upgrading smaller or larger sections within a paper machine, detached from the overall system. For our wear parts like roll covers, which cover a steel roll with a functional surface, we developed and introduced procedures which upgrade the product (e.g. regarding functionality and lifetime) with only replacing a small part of the roll to minimize ecological and economic impact.
Extension of useful product life: d. Recyclability	Successful recycling: At the same time, we are working hard on increasing the recyclability of wear parts. One example of this is the production of our QualiFlex press sleeves: The manufacture of these press sleeves requires a surface treatment, which generates production waste that was previously incinerated. To promote the circular economy in our production processes, we contracted a recycling partner in the fall of 2022 to collect the manufacturing waste and deliver it back to the material supplier. There, 100 % of the material is recycled in a chemical process and returns to the material cycle. This process lets us recycle around 5 tons of material per month. Under the catchphrase "Design for Recycling", press felt production at two press felt plants has already been adapted so that the felts and production waste can be recycled. As a result, production waste in the order of 100 - 200 tons per annum will be fed back into the recycling process in the future. The first monofilaments made from recycled polyamide material have already been developed and successfully employed in the first test felts. We have successfully proved recyclability of press felts products by conducting recyclability studies with various recycling companies. Together with our customers we are collecting used products for recycling.
Material efficiency of products: a. Company position	At Voith, material efficiency is a core principle that guides product development and manufacturing activities. In addition to our commitments to decarbonization and digitalization, we support the principles of the circular economy. We focus on developing innovations that contribute to closing material loops within our industries and promoting circularity, including within our own production processes. Based on assessments and evaluations conducted across our Group Divisions, we have identified key areas related to product responsibility. These include product and service quality and reliability, product safety, product longevity, resource efficiency, and the reduction of environmental impacts throughout the product lifecycle. For several decades, Voith Paper has provided technologies that support the recycling of recovered paper, wastewater treatment, and reject handling within the paper industry. Today, a substantial share of the Group

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	Division's business relates to technologies and systems for recovered-paper-based paper production. In the stock preparation segment, recycling applications represent a major part of the business portfolio. The paper value chain benefits from well-established recycling systems, with recycling rates of approximately 60% worldwide and 74.4% in Europe. Voith Paper continues to develop technologies for stock preparation that support increased use of recovered paper and contribute to further closing material loops. This includes the development of additional process steps and process adaptations aimed at supporting the efficient use of recycled fibers in paper production. One challenge for the circular use of fibers is the declining availability of graphic paper from newspapers, magazines, and other printed media. To address this development, Voith Paper is working on solutions designed to improve resource and material efficiency while supporting paper quality requirements when processing changing wastepaper streams. One example is hard nip sizing, which enables reduced starch application and can contribute to lower raw material consumption and drying energy requirements. The associated starch application process is currently being developed in cooperation with a pilot customer and has demonstrated encouraging results during testing and validation activities. In addition, the digital solution OnEfficiency.Strength helps paper producers optimize starch consumption while maintaining defined paper strength targets. More than 20 installations are currently in operation worldwide and have contributed to estimated annual savings of approximately 36,000 metric tons of starch and 300,000 MWh of drying energy. Voith Paper is a member of the 4evergreen alliance, an industry initiative comprising more than 100 companies across the fiber-based packaging value chain. The initiative aims to increase the recycling rate of fiber-based packaging to more than 90% by 2030 while supporting reductions in lifecycle carbon emissions. Following laboratory investigations into the pulping behavior of barrier papers during fiscal year 2021/22, pilot-scale trials have been conducted at the Voith Fiber Technology Center in cooperation with the consortium to evaluate papers with challenging pulping characteristics. The resulting findings support the assessment of new pulping concepts within the broader wastepaper preparation process, including sorting and fiber treatment.
Material efficiency of products: a. Coverage of company position	Applicable material efficiency and circular economy requirements are 100% integrated into product development and innovation activities.
Material efficiency of products: b. Targets Long Term Objectives	Voith Paper has defined ambitious long-term objectives for the future of paper production, focusing on the advancement of low-carbon production technologies, reduced freshwater consumption, and increased circularity through the utilization of alternative fiber streams. These objectives are supported by energy-optimized products, digital solutions, renewable energy integration, and continuous innovation. At Voith, material efficiency is a core principle that guides product development and manufacturing activities. In addition to our commitments to decarbonization and digitalization, we support the principles of the circular economy. We focus on developing innovations that contribute to closing material loops within our industries and promoting circularity, including within our own production processes.

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Material efficiency of products: c. Measures and reporting on progress	For example, a newly developed sensor has made it possible to quantify agglomerated and finely distributed adhesive contaminants (e.g. stickies) in the water circuits and to keep them below a critical level by automatically adjusting the reject rate in fine-screening and stabilizing production operations. As a result, fiber losses have already been minimized in three pilot installations in production plants. Following extensive fluid mechanics tests in our pilot plants and by using 3D printing in production, we were able to completely redesign key functional components of the EdgeSaver. This has significantly expanded its range of applications to save fibers and energy for even more customers. Eight installations have already been sold. Sustainability impact: improved resource and material efficiency. Further success cases with quantitative savings for entire paper portfolio can be viewed on Voith Paper Website.
Material efficiency of products: c. Coverage of measures and reporting on progress	Material-efficiency considerations are 100% applied in decision-making and improvement activities.
Material efficiency in production processes: a. Coverage of company position	100% for commitment to develop and manufacture material-efficient [mainly cost-driven commitment]
Substances of concern contained in products: Ban on substances of concern in products	All Voith Group Divisions comply with applicable legal and regulatory requirements regarding the handling, assessment, and management of hazardous substances in the markets in which they operate. Processes are in place to evaluate restricted substances and identify alternatives where required by applicable regulations. For Voith Paper, the REACH Regulation is a key regulatory framework for products placed on the market in the EMEA region. The use of substances listed in REACH Annex XIV is regularly reviewed, and where regulatory requirements or business needs necessitate action, alternative materials are identified, tested, and introduced. When additional substances are added to the authorization list, their potential use is assessed accordingly. Environmental, health, and safety (HSE) considerations are integrated into the development of new products alongside technical and market requirements. Coverage: 100% of new product development projects are subject to defined HSE reviews within the Voith Product Development Process (stage-gate process). Typically, between two and five review milestones are conducted during development, during which potential environmental, health, and safety aspects are assessed. Open HSE-related actions are considered in the gate approval process and must be appropriately addressed before a project can proceed to the next development stage. In response to evolving regulatory requirements related to per- and polyfluoroalkyl substances (PFAS), Voith has initiated research and development activities focused on identifying and evaluating alternative materials. These efforts include the development of alternative coating solutions for rolls used in paper manufacturing applications.
Substances of concern contained in products: Coverage of ban on substances of concern in products	Voith Paper is firmly committed to ensuring that none of its products enter the market containing free chemical substances regulated under REACH. This commitment is upheld through a mandatory check at the very early stages of Voith's Product Development Process (PDP). If there are any unresolved Health, Safety, and Environmental (HSE) concerns, including substances banned due to safety issues, the product cannot proceed to further development.

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	100% of products are subject to substance-compliance controls
Strategy to optimise energy efficiency of products: a. Company position	Voith intends to contribute to decarbonization and to achieving the goals of the Paris Agreement. To this end, Voith Paper is focusing on developing new solutions for relevant sub-processes in paper production to make more efficient use of renewable energies, thereby increasing process efficiency and energy recovery. Examples: ▪ Voith Paper and Koehler development partnership focusing on decarbonization ▪ Voiths use of anaerobic reactors to purify water and generate biogas, which reduces the proportion of fossil fuels and contributes to the decarbonization of paper production.
Strategy to optimise energy efficiency of products: a. Coverage of company position	Decarbonization principles are 100% applied in technology development activities.
Strategy to optimise energy efficiency of products: b. Quantitative targets long-term innovation objectives	Voith Paper has defined ambitious long-term objectives for the future of paper production, focusing on the advancement of low-carbon production technologies, reduced freshwater consumption, and increased circularity through the utilization of alternative fiber streams. These objectives are supported by energy-optimized products, digital solutions, renewable energy integration, and continuous innovation. To achieve this, Voith focuses on four strategic areas: 1. Process Optimization - 20% CO2 reduction potential Continuous product and technology improvements reduce energy use. For example, a new industrial cleaner design cuts energy by 30% and boosts throughput. Replacing older models has saved ~10,000 MWh/year. 2. Digital Solutions - 10% CO2 reduction potential AI-based process controls and energy visualization tools enhance operational efficiency and enable energy-optimized production. 3. Pioneering Innovations - 50% CO2 reduction potential Voith co-leads the Model Paper Mill Consortium in Germany, developing emission-free production methods. Projects include a digital twin for energy control and a new process with Essity that cuts water use by 95% and energy by 40%, potentially achieving zero emissions with green electricity. 4. Renewable Energy & Energy Integration – Voith develops and integrates technologies that support the use of renewable energy sources, energy recovery, biogas generation, heat utilization, and energy storage as part of the transition towards more sustainable paper production processes.Voith Paper has defined ambitious long-term innovation objectives for the future of paper production. These objectives focus on supporting low-carbon paper production, reducing freshwater consumption, increasing circularity through the use of alternative fiber streams, and advancing resource-efficient production technologies.

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Strategy to optimise energy efficiency of products: c. Measures and reporting on progress	Increasing energy efficiency is a core element of our incremental development and a key differentiator for Voith Paper. Sustainability and efficiency are firmly embedded in our strategy as two of the three main differentiation criteria. Voith Paper: "Innovative pulping process: This new paper pulping concept enables a significantly more energy-efficient pulping of wastepaper (-30 %). Following the successful operation of a pilot plant for internal waste processing at the customers site since February 2022, multiple trials lasting several days were carried out using corrugated cardboard packaging as a raw material. The technology was further optimized with the aim of ensuring continuous operation. Sustainability impacts: improved energy efficiency. Forming fabrics were developed to reduce the load absorption in the former. As a result of the completed field test phase, nine out of ten fabrics showed lower energy absorption in the forming section. Field tests to reduce load absorption were completed in the previous fiscal year and showed that the use of the innovative material allows a targeted release of water for improved lubrication. The resulting optimized friction conditions reduce the load absorption in the former. Sustainability impacts: improved energy efficiency
Strategy to optimise energy efficiency of products: c. Coverage of measures and reporting on progress	Energy-efficiency principles are 100% applied in development processes.

On the document “2025 Voith ESG Additional Information Voith Paper”

This document has been prepared to provide our stakeholders with further information on our sustainability performance on a fiscal year (FY)-basis (in addition to the associated Sustainability Report/ Factual Basis). The present document describes the progress made in the FY 2024/25, i.e. from October 1, 2024 to September 30, 2025. Unless stated otherwise, all figures contained in the present document apply to the Group Division Voith Paper.

The document was published on March 31, 2026.

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