VOITH

2025

Voith ESG Additional Information

Voith Hydro

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Social

Product design and development: a. Tests and assessments	Voith Hydro ensures product safety through rigorous design and verification procedures. Components undergo numerical stress analyses, service-life evaluations, and material durability tests, with results validated through operational measurements of factors such as pressure, vibration, and strain. Safety is further ensured through mandatory tests performed during manufacturing, installation, and commissioning. Each machine must pass a defined Inspection and Test Plan, which verifies all functions from idle to full load, including boundary conditions and emergency shutdown, before it is approved for commercial operation.
Product design and development: a. Coverage of tests and assessments	100%
Product design and development: d. Noise emissions	At Voith Hydro, noise emission targets are set on a project-specific basis in our calls for tender. Specifically, regarding noise emissions, Voith Hydro pursues the goal of predicting noise emissions increasingly accurately and defining the necessary abatement measures in advance. One example of a project-specific measure to reduce noise emissions is Voith's turbine gearbox for the Barrage du Seujet hydropower plant on Lake Geneva. For many years, the power plant could not be operated at night due to low-frequency vibrations that were clearly discernable inside the buildings in the neighboring residential area. Together with the power plant operator's technical partner, Voith developed a concept for an improved gear unit arrangement, achieving an outstanding gear system efficiency of over 99 % in the process. Moreover, it was possible to reduce noise emissions to such an extent that the power plant can now be operated continuously.
Customer support and protection: a. Safety data sheets	All products must at least meet the safety, health, and environmental requirements of the relevant EU directives, irrespective of the market area. Risk Assessment Sheets are available for all machines and products, both in relation to the European directives or any national directives that exceed their scope. To ensure best possible safety for our customers and their systems, all safety-relevant information on Voith Hydro products is also documented in the operating manuals.
Customer support and protection: a. Coverage of safety data sheets	100%
Customer support and protection: b. Customer training and counselling	Voith Hydro monitors its products throughout their operational life to identify and address safety risks, informing customers immediately when safety-relevant issues arise and documenting all required safety information in operating manuals. To further support safe plant operation, Voith provides extensive training through HydroSchool, where experienced specialists deliver courses and on-the-job instruction for both customer and Voith personnel. This ensures operators understand applicable specifications, safety requirements, and regulatory frameworks. Training is offered on-site, at Voith facilities, or through digital channels, helping customers maintain safe operating practices throughout the lifetime of their hydropower equipment.
Customer support and protection: b. Coverage of customer training and counselling	100%

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Customer support and protection: c. Monitoring of products during use phase	In line with its Business Management System, Voith Hydro continues to monitor its products during the use phase for potential safety risks and major machine damage. In doing so, we always adhere to product liability law and its specifications regarding active product monitoring. In the event of a safety risk or safety-relevant event, Voith Hydro informs customers immediately and always in accordance with legal requirements. To ensure best possible safety for our customers and their systems, all safety-relevant information on Voith Hydro products is also documented in the operating manuals.
Customer support and protection: c. Coverage of monitoring of products during use phase	100%

Environment

Life cycle assessments: a. Assessed aspects	We are receiving more and more customer inquiries about the carbon footprint of Voith Hydro products. To meet these requirements, we created a simplified tool, based on data from the world's leading LCA database Sphera. It enables us to make fast and reliable statements about the carbon emissions of our products. In addition to the materials and quantities used, information on transportation is also taken into account.
Extension of useful product life: a. Longevity	Hydropower plants are typically designed for at least 40 years of operation, and Voith Hydro supports this long service life by ensuring its equipment can be upgraded, retrofitted, and modernized even after decades of use. The company's HyService activities include inspections, refurbishments, and diagnostic evaluations that assess the condition of systems and components. These measures help operators improve efficiency, safely extend operating cycles, and postpone major rehabilitation work.
Extension of useful product life: b. Repairability	Long service life is reinforced by the high repairability of equipment supplied by Voith Hydro, which is engineered to remain serviceable throughout decades of plant operation. During activities such as cavitation repairs, generator rewinds, or modernizations, service teams focus on reconditioning existing components wherever possible. Continuous diagnostics of operating data further support timely maintenance decisions, enabling plant operators to restore functionality, reduce downtime, and avoid premature replacement.
Extension of useful product life: c. Upgradability	Voith Hydro designs its machines and systems for long service life, with hydropower plants typically built to operate for at least 40 years. All Voith Hydro components can be upgraded, retrofitted, and repaired even after many years, and HyService supports operators in maximizing plant availability and lifetime. During inspections and repairs, Voith prioritizes reconditioning existing components for continued use, while modernizations, usually required after 30 to 40 years, aim to improve efficiency and prepare critical parts for extended operation. Continuous diagnostic evaluations of operating data further help operators run plants safely and prolong equipment runtimes before major rehabilitation is needed.
Extension of useful product life: d. Recyclability	Ensuring 95% of the materials used for machine sets in hydropower plants are recyclable: Not least because of their very long service life, recycling the materials used in a hydropower plant is an issue that quite literally spans generations. The materials used in a hydropower plant, primarily steel and copper, can be easily and almost completely recycled at the end of the product's service life. For example, the proportion by weight of recyclable

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	materials in the machine sets is more than 95%. Due to the plant's long service life, the energy consumption required for recycling has very little impact on the overall energy balance.
Material efficiency of products: a. Company position	At Voith we manage raw materials centrally across the Group to make our processes as resource efficient as possible. Significant challenges arise from the broad scope of our product portfolio and our correspondingly diverse process landscape. In addition to decarbonization and digitalization, Voith is also committed to the circular economy principle. We want to drive innovations that help to close cycles in our industries and promote the principle of circularity. The same applies to our own production process cycles. Voith Hydro evaluates material substitution and design-for-disassembly to improve recyclability. Voith Hydro's refurbishment and life-extension services reduce raw-material demand by delaying new component production. Predictive-maintenance tools prevent premature replacements and unnecessary material use.
Material efficiency of products: a. Coverage of company position	100%
Material efficiency of products: b. Targets	Voith Hydro aims to improve material efficiency by consistently reducing material use and associated costs through technical optimization measures. These include minimizing waste in punched and laser-cut generator sheets, re-using burnout scrap for welded structures such as transport reinforcements, and designing cast and forged semifinished parts closer to their final geometry to reduce machining needs. At the product level, hydropower machine sets are designed for high end-of-life recoverability, with more than 95% of their steel and copper content being recyclable. Progress toward these material-efficiency objectives is tracked across operations, contributing to Voith's broader circular-economy targets and demonstrated through reductions in energy use, freshwater consumption, and waste volumes across the product lifecycle.
Material efficiency of products: c. Measures and reporting on progress	Voith Hydro improves material efficiency by extending the service life of hydropower components and reducing the need for new materials. Through HyService, operators receive support to maximize plant availability by reconditioning components during inspections and repairs, such as cavitation work and generator rewinds, to enable continued use rather than replacement. Modernization projects, typically carried out after 30 to 40 years of operation, focus on restoring system efficiency while preparing critical parts for further service, thereby minimizing new material demand. Diagnostic evaluations of plant operating data help extend runtimes safely, delaying major rehabilitation and associated material use. To further strengthen material efficiency, Voith prioritizes refurbishable components across service and modernization projects, reducing material consumption, limiting waste generation, and lengthening component lifetimes. As HyService grows as a share of total sales, its contribution to material efficiency and reduced resource use continues to expand.
Material efficiency in production processes: a. Coverage of company position	100%
Substances of concern contained in products: Ban on substances of concern in products	Voith Hydro maintains strict controls on substances of concern by fully applying REACH requirements, including Candidate List, Annex XIV, and Annex XVII restrictions. The Group Standardization Department oversees compliance, while the Technical Department proactively evaluates substitutes for materials expected to face future bans. Legacy substances such as asbestos are removed by certified specialists under a defined Group directive. In addition, Voith integrates RoHS and emerging PFAS restrictions into its substance-management system and

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	reinforces supplier obligations through its Supplier Code of Conduct to ensure accurate substance declarations and alignment with global regulations.
Substances of concern contained in products: Coverage of ban on substances of concern in products	100%
Strategy to optimize energy efficiency of products: a. Company position	Voith Hydro is committed to optimizing the energy efficiency of its products as a core element of decarbonization, continuously improving turbine and system performance to reduce energy use and carbon footprint across its portfolio. Efficiency optimization remains a central focus throughout product development, even though energy consumption during hydropower plant operation is comparatively minor. These efforts are reinforced by Voith's Group-wide energy and climate targets, which drives systematic improvements in energy performance and supports lower operational emissions.
Strategy to optimize energy efficiency of products: a. Coverage of company position	100%
Strategy to optimize energy efficiency of products: b. Quantitative targets	Voith Hydro continually enhances product efficiency by optimizing operating ranges and advancing energy-efficient design. These efforts are aligned with Voith's Group-wide climate and energy objectives through quantitative targets, such as annual reductions in energy use and Scope 1 and 2 emissions.
Strategy to optimize energy efficiency of products: c. Measures and reporting on progress	Voith Hydro improves product energy efficiency through continuous design optimization, supported by advanced testing and simulation. At the Brunnenmühle R&D Center, model tests evaluate efficiency, hydraulic behavior, cavitation, and output before turbines are built, ensuring optimized performance across operating conditions. Development teams also use high-performance computing to refine designs further. These measures are reinforced by Voith's Group-wide climate and energy programs, which drive systematic energy-efficiency improvements across product technologies.
Strategy to optimize energy efficiency of products: c. Coverage of measures and reporting on progress	100%

On the document "2025 Voith ESG Additional Information Voith Hydro"

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 Hydro.

The document was published on March 31, 2026.

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