VOITH

2025

Voith ESG Additional Information

Voith Turbo

Social

Product design and development: a. Tests and assessments	Voith Turbo assesses its products for their safety and potential health impacts. In doing so, we consider many relevant criteria from functional safety, explosion and fire protection to electrical safety and electromagnetic compatibility. Throughout their service life, the products are carefully monitored for safety and reliability. Depending on the applicable contractual, legal, or governmental requirements, systems such as Entity in Charge of Maintenance (ECM) are applied. Where required, product safety requirements are assessed and approved by independent 3rd party organizations. Moreover, some products can be monitored online, such as DIWA automatic transmissions. This enables proactive maintenance, which helps prevent unexpected downtime. Remote online monitoring can also be implemented for Voith Schneider Propellers (VSP) for maritime applications via an extended sensor system.
Product design and development: a. Coverage of tests and assessments	100% of relevant products
Product design and development: d. Noise emissions	Voith Turbo works continuously to reduce the noise emissions of its products. To this end, Voith Turbo always complies fully with the technical specification for interoperability (TSI) of the subsystem “rolling stock noise” (TSI Noise) according to EU Regulation 1304/2014, as well as DIN EN ISO 3095 (“Acoustic railroad applications: Measurement of noise emitted by rail bound vehicles”). Other noise emission standards such as DIN EN ISO/TR 11688-1/2 are also met. Examples of this are the Silent Vent fan wheel and a new railcar transmission test bench that allows Voith Turbo to conduct detailed noise measurements, advancing the optimization of railcar transmission noise emissions.
Product design and development: d. Coverage of noise emissions	15% of relevant products
Customer support and protection: a. Safety data sheets	Voith Turbo provides its customers with all relevant safety information. This can be found, for example, in Material Safety Data Sheets, product declarations (REACH, International Material Data System (IMDS), etc.), fire protection certificates for materials, and safety requirement specifications for risk assessments (Conformité Européenne (CE), etc.). Customers are also made aware of possible risks in the operating instructions for drive units; these instructions also describe the correct handling of work materials from a safety and environmental perspective.
Customer support and protection: a. Coverage of safety data sheets	100% of relevant products
Customer support and protection: b. Customer training and counselling	Wherever necessary, Voith Turbo supports its customers in the authorization and approval of products and supplies the necessary documentation and registration papers. The Group Division experts are involved in the creation of safety concepts from the product development phase and check their implementation right through to joint validation with the customer. If the need arises, components are put into operation with the customer at their own production facility.

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Customer support and protection: b. Coverage of customer training and counselling	Due to the broad spectrum of VT's product portfolio, the needs are specific to product lines, types, and applications.
Customer support and protection: c. Monitoring of products during use phase	Throughout their service life, the products are carefully monitored for safety and reliability. Depending on the applicable contractual, legal, or governmental requirements, systems such as Entity in Charge of Maintenance (ECM) are applied. Moreover, some products are monitored online, such as DIWA automatic transmissions. This enables proactive maintenance, which helps prevent unexpected downtime. Remote online monitoring can also be implemented for Voith Schneider Propellers (VSP) for maritime applications via an extended sensor system or for Rail products like passenger couplers or gear units. VT is evaluating and developing corresponding Condition Monitoring Systems (CMS) for different products and applications that will enable continuous monitoring in operations.
Customer support and protection: c. Coverage of monitoring of products during use phase	100% of relevant products

Environment

Life cycle assessments: a. Assessed aspects	According to DIN EN 50126
Life cycle assessments: b. Life cycle phases	According to DIN EN 50126
Life cycle assessments: c. International standards	According to DIN EN 50126
Life cycle assessments: d. Publication of results	Depending on product type and project objective, PCFs/LCAs are calculated within two different system boundaries. For the first of these, PCFs/LCAs 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 analyses.
Extension of useful product life: a. Longevity	Generally, as part of ISO 14001 Management (certification) VT follows the approach of ISO 14006 - EMS - Guidelines for Incorporating Eco-Design; Normally VT products are designed for a minimum lifetime of 10 years. In Rail business the lifetime is minimum 30 years. In addition, VT offers Obsolescence services (i.e. in rail business a mandatory requirement if requested by customer).
Extension of useful product life: b. Repairability	Generally, as part of ISO 14001 Management (certification) VT follows the approach of ISO 14006 - EMS - Guidelines for Incorporating Eco-Design; Normally VT products are designed for a minimum lifetime of 10 years. In Rail business the lifetime is minimum 30 years. In addition, VT offers Obsolescence services (i.e. in rail business a mandatory requirement if requested by customer). LCC (Life Cycle Cost) is mandatory part of ISO 22163.

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Extension of useful product life: c. Upgradability	Generally, as part of ISO 14001 Management (certification) VT follows the approach of ISO 14006 - EMS - Guidelines for Incorporating Eco-Design; Normally upgrades are considered in early design stages, supported by a design change process and will be evaluated on customer requests for products in operation.
Extension of useful product life: d. Recyclability	Generally, as part of ISO 14001 Management (certification) VT follows the approach of ISO 14006 - EMS - Guidelines for Incorporating Eco-Design, ISO 14009 – EMS – Guidelines for Incorporating Material Circulation in Design and Development. VT tries to design products based on fully reusable materials, or as a minimum their complete recycling and if applicable according statutory, regulatory and customer end-of-use requirements, (i.e. Battery recycling, ROHS, ...).
Extension of useful product life: a. Coverage of recyclability	30% of relevant products
Material efficiency of products: a. Company position	Voith Turbo products are designed and manufactured under a commitment to material-efficient use of raw materials. This means material efficiency is integrated from development through end-of-life of every product within the Product Lifecycle (PLC) and Product Development Process (PDP) which consider modularization and standardization of products. VT follows ISO 14006 (Eco-Design) and ISO 14009 (Circular Design) guidelines. These standards commit VT to choose sustainable, recyclable materials and design products for reuse/recyclability, improving material efficiency by design. At the Voith Group level, raw material use is managed centrally to maximize resource efficiency in all processes. VT aligns with this approach, ensuring minimal waste and optimal material usage across its product portfolio.
Material efficiency of products: a. Coverage of company position	100% of relevant products
Material efficiency of products: c. Measures and reporting on progress	Optimization of raw material efficiency through Life Cycle Assessments (as required in ISO 22163), Product-Cost-Optimization (PCO) measures and inventory optimization (avoid excess).
Material efficiency of products: c. Coverage of measures and reporting on progress	100% of relevant products
Substances of concern contained in products: Ban on substances of concern in products	Voith Turbo products are subject to a wide range of statutory and regulatory requirements for the handling and categorical exclusion of hazardous substances and those of very high concern. For example, EU regulations such as the REACH Regulation, the RoHS (Restriction of Hazardous Substances) Directives, and the German Battery Act (BattG) apply. Other factors include railway fire protection standards, the Group's own specifications on hazardous substances, specific customer requirements, and guidelines. From associations such as the Rail Industry Substance List and IMDS for materials used in the automotive industry. Wherever technically and economically feasible, harmful substances are avoided or replaced by alternative substances as early as the engineering phase.
Substances of concern contained in products: Coverage of ban on substances of concern in products	100% of relevant products
Strategy to optimise energy efficiency of products: a. Company position	Voith Turbo's core principle is that all its products contribute to energy efficiency. Thus, all Voith Turbo products are engineered to boost customer operational efficiency, reflecting a formal commitment that covers 100% of the product portfolio. Voith has set a Science-Based Target to cut Scope 3 (use-phase) CO_2 emissions by 30% by 2032,

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	underscoring VT's role in delivering energy-efficient products. VT develops technologies like the DIWA NXT hybrid transmission (up to 16% fuel savings) and the electric Voith Schneider Propeller (eVSP) for greener marine propulsion. Energy efficiency is integrated throughout VT's product development process and lifecycle (PLC). VT's internal guidelines (aligned with ISO 14001 and eco-design standards) ensure that from the earliest design stages, products are evaluated for efficient performance.
Strategy to optimise energy efficiency of products: a. Coverage of company position	100% of relevant products
Strategy to optimise energy efficiency of products: b. Quantitative targets	Due to the broad spectrum of VT's product portfolio, the objectives and targets are specific to product lines, types, and applications.
Strategy to optimise energy efficiency of products: c. Measures and reporting on progress	Voith Turbo's key measures include design optimization (reducing losses at every component), adopting hybrid and electric technologies, applying digital monitoring and control, and continuous R&D programs targeted at efficiency.
Strategy to optimise energy efficiency of products: c. Coverage of measures and reporting on progress	100% of relevant products

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

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 Turbo.

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