

INTERPUMP GROUP

2023-25 ESG JOURNEY
ECO-DESIGN GUIDELINES FOR GROUP PRODUCTS
20 December 2024

- HIGHLIGHTS
- PRODUCT ECO-DESIGN GUIDELINES
- ANNEX



■ HIGHLIGHTS



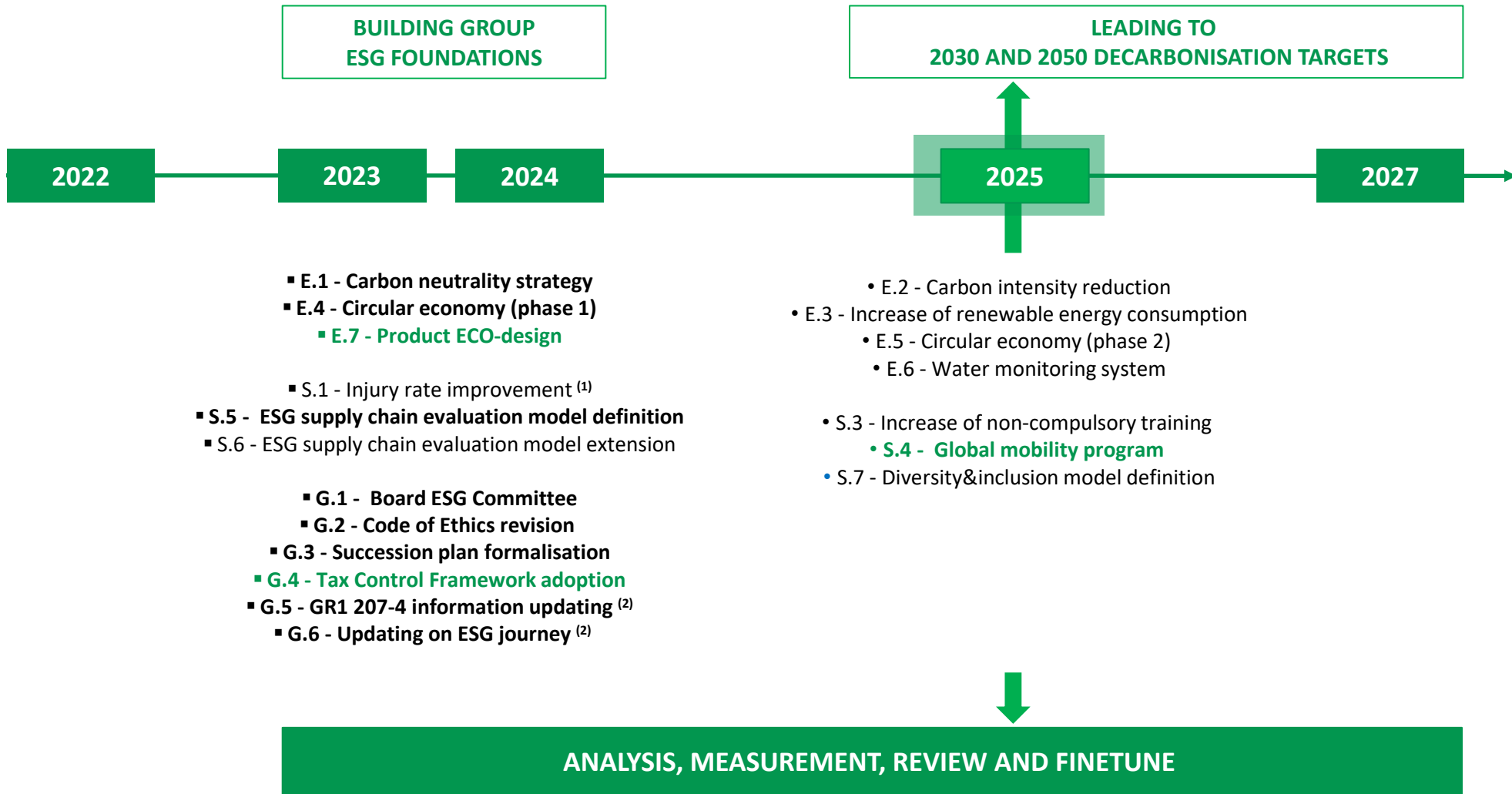
- Eco-Design guidelines are crucial to define fundamental parameters and objectives which will drive actions and decisions of the entire Group network
 - Each subsidiaries will define operational procedures to implement guidelines in the specific product and business model context

- It's imperative
 - To integrate Eco-Design into all stages of product development
 - Use as much as possible of sustainable raw materials, production materials and spare parts from initial design to possible repair
 - To involve the entire supply chain
 - From suppliers to clients through employees and collaborators
 - Possible collaborations with universities and R&D external centres
 - To define KPI – correlated to subsidiaries products, business model and reference markets – for monitoring
 - Products environmental impact
 - Performance over the time
 - To leverage on most recent and innovative technologies

- Ready for ESPR⁽¹⁾ implementation in July 2026

⁽¹⁾ Ecodesign for Sustainable Product Regulation: EU Regulation 2024/1781 of 13 June 2024, entered in force on the following 18 of July and to be applied from July 2026

ANALYSIS AND MEASUREMENT



⁽¹⁾ 2023-24 multi-year target - ⁽²⁾ Ongoing annual target

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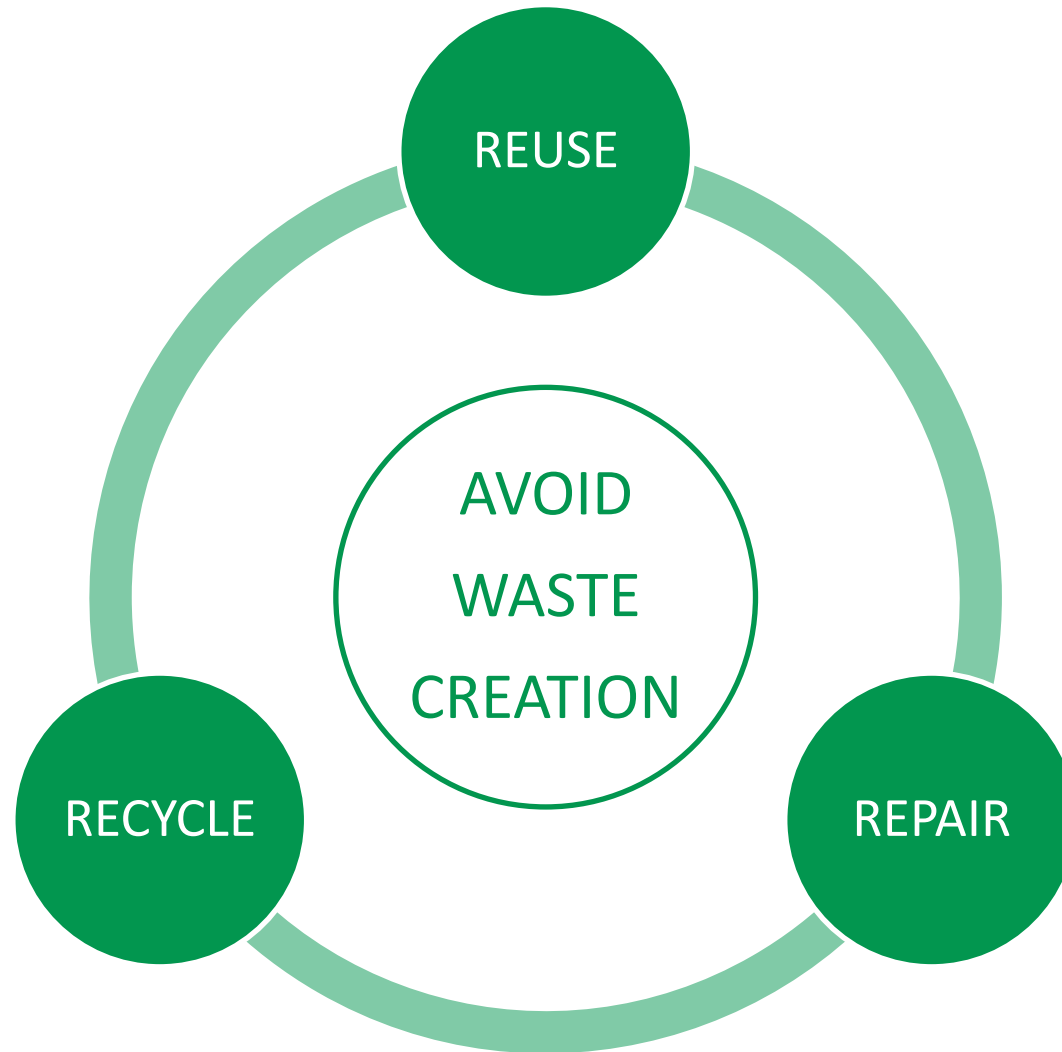


“A falling tree makes more noise than a growing forest”

Lao Tzu

- 3 main streams
 - Climate change
 - **Product life cycle**
 - Water efficiency

	ACTION ID	DESCRIPTION	GRI and SDG	KPI	TIMING
PRODUCT LIFE CYCLE	E.4	<p>Circular economy – Phase 1</p> <ul style="list-style-type: none"> Waste assessment and potential by-products analysis Network with partner entities at regional level Pilot project in IPG and IMM subsidiaries 		N.A.	Base year: 2022 Target year: 2023
	E.5	<p>Circular economy – Phase 2</p> <ul style="list-style-type: none"> Feasibility study on Phase 1 project extension Italian manufacturing site as possible perimeter 		N.A.	Base year: 2023 Target year: 2025
	E.7	<p>Product ECO-design</p> <ul style="list-style-type: none"> Phase 1: definition of a Group ECO-design policy Phase 2: implementation of Group policy through procedures reflecting business model heterogeneities 		N.A.	Base year: 2022 Target year: 2024



CORE PRINCIPLES	GOALS
Efficient material management	<ul style="list-style-type: none"> ▪ Increased use of renewable energy sources ▪ Seeking design solutions to reduce materials used while preserving performance levels ▪ Adopt cross-product logics to optimise production and warehousing (especially for intra-group collaborations)
Efficient water management	<ul style="list-style-type: none"> ▪ Designing products that optimise customers’ water consumption ▪ Recovery of water for reuse in the production cycle
Efficient energy management	<ul style="list-style-type: none"> ▪ Streamlining company production processes through updating technical knowledge, processes and plants ▪ Optimising consumption for customers
Harmful material use reduction	<ul style="list-style-type: none"> ▪ Reduction in the use of industrial products & processes with hazardous substances, replacing them instead with less toxic and polluting equivalents
Products useful life extension	<ul style="list-style-type: none"> ▪ Product design that also incorporates possible end-of-life scenario ▪ Sensorisation (“Internet of things”), planned maintenance and customer collaboration
Local supply chain & logistic improvement	<ul style="list-style-type: none"> ▪ Attention to local suppliers and promotion of collaboration based on proximity ▪ Optimisation of internal and external logistics

INITIATIVES		BEST PRACTICES
SYSTEMES THINKING	Raw material inputs into the system reduction	<p>Interpump Hydraulics India The introduction of a new cylinder design process allowed metal discard during machining phases from around 40% to no more than 3%</p>
CIRCULAR VALUE GENERATION MATERIAL	By products	<p>IMM Italia Rubber sheet used as intermedium in the flexible tube</p>
CIRCULAR VALUE OPTIMISATION RESOURCE EFFICIENCY	Reuse of water within production cycles	<p>NLB Corporation Recover of more than 90% of water used in the testing process and re-use in the same process</p> <p>Inoxihip Use of the same test water after continues filtration (and replacem when necessary)</p>

INITIATIVES		BEST PRACTICES	
CIRCULAR VALUE PRESERVATION	DURABILITY	Preventive maintenance	<p>Interpump Group Instruction manuals contain tables for preventive maintenance and fault analysis and several sensors are installed on many machines for fault prevention</p>
		Product regeneration	<p>Inoxihp Repairs are aimed at replacing only damaged parts and the repaired product is then returned with 6 months warranty</p>
	PRESERVING VALUE & END LIFE	Restoration of products	<p>NLB Corporation Used NLB pumps are bought back from our customers, repaired, refurbished and made saleable to customers. Repair activities are offered for any finished product sold</p>

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