

CIRCULARITY POSITION

Purpose

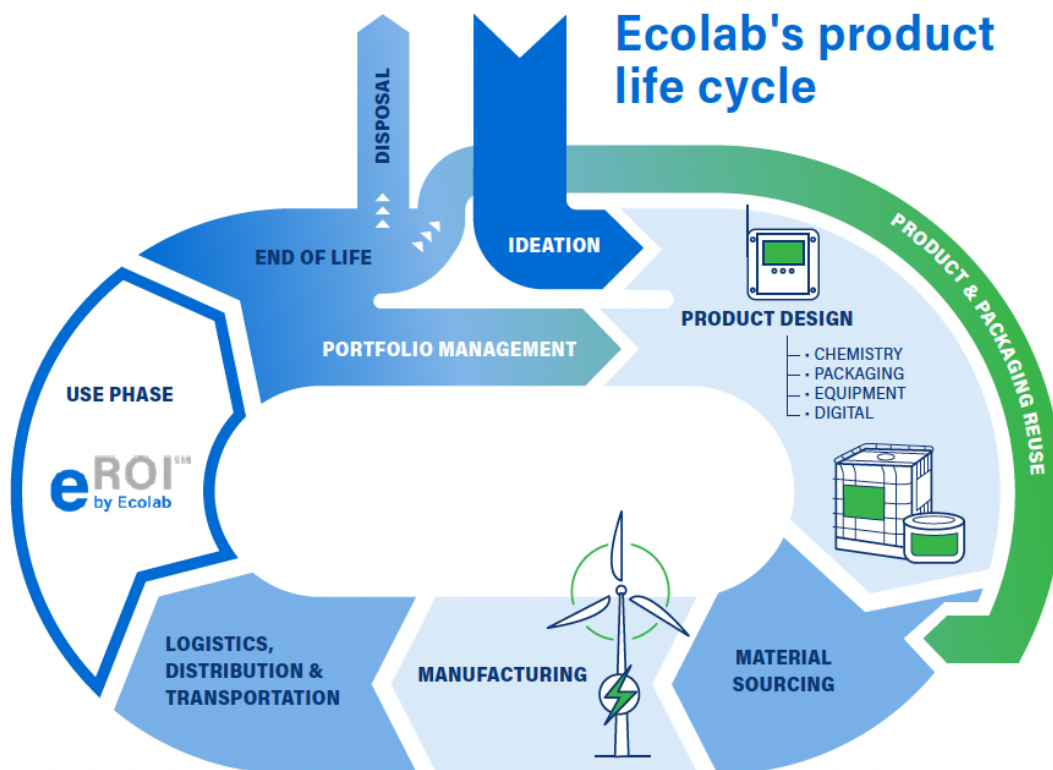
Ecolab is committed to continuously enhancing product sustainability standards. At the heart of our efforts lies the principle of circularity, which is embedded throughout product life cycles as we work toward our net-zero climate ambition by 2050. Guided by our purpose to protect the resources vital to life, we are dedicated to adopting circularity principles to minimize our environmental footprint and create positive outcomes for people, the planet and business health.

Scope

This position applies globally to Ecolab products and solutions.

Position

Ecolab is dedicated to advancing circular economy principles through comprehensive product management, sustainable operations and innovative solutions for customers. We embed circular principles in every phase of our products' life cycle, from material sourcing to end-of-life management. Our commitment spans seven key phases, each reflecting an unwavering dedication to sustainability.



Portfolio Management

Our ambition is to exceed regulatory compliance through implementation of Ecolab's [Chemical Product Ingredient Sustainability Policy](#), which establishes a global standard for ingredients with the aim to minimize hazardous substances in our products. We continuously analyze our existing portfolio to identify opportunities to eliminate or replace raw chemical materials with more sustainable, circular alternatives.

Product Design

- **Chemistry** | We aim to expand our portfolio of products that incorporate raw materials from renewable feedstocks and identify lower carbon footprint versions of high-impact raw materials through our sustainable procurement program. Ecolab believes products designed for high efficacy for their intended use is a path to reduce by design through reduction of consumption and transportation of raw materials.
- **Packaging** | We design products for packaging minimization through concentration. We decrease virgin plastic demand through reduction, reuse, and recycling of packaging materials. As a member of industry associations, we engage the value chain to optimize plastic products' recyclability and recycled plastic uptake.
- **Equipment** | We consider human health factors through the design of closed loop dispensing systems and minimization of the use of personal protective equipment, where feasible. Additionally, we aim to design equipment and dispensing solutions to decrease consumption of raw materials and for repair or refurbishment to limit disposal.
- **Digital** | We use artificial intelligence, IoT and automation to help customers assess their operation and close the gap between their current performance and optimal performance, ultimately helping them achieve sustainability goals, saving more water and energy, better optimize efficiency, protect assets, drive financial improvement, and safely manage the health of their water systems.

Material Sourcing

We strive to ethically source raw materials and prioritize use of ingredients with lower environmental impacts, i.e., lower product carbon footprint alternatives, materials from responsibly sourced regenerative, plant-based sources, etc. Collective action and value chain collaboration through Ecolab's sustainable procurement program is a critical component to our sourcing strategy.

Manufacturing

We optimize manufacturing processes to minimize water and energy consumption, waste generation and exposure to harmful substances while utilizing renewable energy sources to reduce our carbon footprint. Circular water programs are powered by Ecolab solutions and digital technologies that help us reduce, reuse and recycle water. We also seek innovative ways to eliminate waste streams in our manufacturing facilities and, where waste is unavoidable, explore ways to extract value from these streams through reuse opportunities.

Logistics and Transportation

We design products for transport optimization via concentration and palletization patterns. Our logistics network across multiple locations minimizes transport distances and utilizes pool points to ensure full truck loads.

Use phase

We deliver exponential outcomes for customers and communities through [eROI™](#) to improve performance, increase operational efficiency and enhance sustainable impact. Ecolab prioritizes products that deliver exponential outcomes with high efficacy as a path to reduce raw materials consumption and transportation. We enable customers to contribute to the circular economy through use of our solutions and services.

End of Life

Circular economy principles are considered when developing strategies for the responsible reuse, repair, refurbishment or disposal of products, packaging and equipment at end of life. We prioritize products designed for low impact to the natural environment and classified as readily, ultimately or inherently biodegradable at use dilution as a component of our [Impacts that Matter](#) framework.

Supporting Principles

- **Transparency and Disclosure** | We provide clear, transparent product information to customers and stakeholders, including product carbon footprint (PCF) and [Impacts that Matter](#) information.
- **Supply Chain Engagement** | We collaborate throughout our supply chain to help ensure responsible and sustainable practices are followed by suppliers and partners.
- **Continuous Improvement** | We engage with governmental and industry initiatives and actively use benchmarking tools to strengthen our implementation of circularity practices. We are committed to forming partnerships with organizations that recognize and promote the importance of a circular economy.

Responsibility

Corporate Sustainability is responsible for the implementation of this position.

References

- [Ecolab Sustainability Position](#)
- [Ecolab Climate Change Position](#)
- [Ecolab Product Sustainability Position](#)
- [Ecolab Product Safety and Stewardship Position](#)
- [Ecolab Water Stewardship Position](#)
- [Ecolab Waste Management Position](#)
- [Ecolab Chemical Product Ingredient Sustainability Policy](#)

Version #	Date	Description	Revised By
Initial Release	November 2024	Initial Release	Corporate Sustainability