

2022

SUSTAINABILITY OVERVIEW

Building a 100% positive future, together

► Protecting
people, planet and
business health



Learn more about our sustainability efforts at [Ecolab.com/CSR](https://www.ecolab.com/CSR)

A 100% positive future

For a century, we've been growing fast by protecting what's vital. We've been solving some of the world's most complex problems, protecting people from infections and protecting the resources vital to life by making a positive impact on our customers, communities and the planet.

Ecolab has remained focused on delivering concrete results year after year. Our results in 2022 show once again how we are delivering on our goals and making major steps toward our ambition to work toward a 100% positive future.

We're proud of the progress we've made, and we're excited for the next 100 years of positive outcomes we expect to contribute together with our customers.



HERE'S HOW WE PARTNERED WITH CUSTOMERS IN 2022 TO WORK TOWARD A 100% POSITIVE FUTURE



219 billion

Gallons of water conserved



3.6 million

Metric tons of CO₂e avoided



1.4 billion

People safely fed with high-quality food



57 billion

Hands cleaned



Empowering our customers

By improving performance, operational efficiency and sustainable impact

We partner with our customers to deliver impactful outcomes



WATER



ENERGY



WASTE



GREENHOUSE GASES



COSTS



FOOD SAFETY



PRODUCTIVITY



PROFITABILITY



HUMAN HEALTH AND SAFETY



TOTAL VALUE DELIVERED



ENVIRONMENTAL RESPONSIBILITY



BRAND PROTECTION



PRODUCT QUALITY



ASSET PROTECTION



Through our proprietary **eROISM** approach—which calculates the exponential return on our customers' investment in Ecolab products and services—we estimate the positive impact of our solutions. eROI helps customers credibly quantify their return through water, emissions and comprehensive operating cost savings while enabling them to plan and track their progress across a range of performance and environmental goals.

Partnering with our customers to achieve business and sustainability goals

The eROI success stories featured in this 2022 Corporate Sustainability Overview demonstrate how Ecolab helps customers achieve ambitious goals. No matter the metric, we deliver value for our customers in every industry we serve. We know that real and lasting change is accelerated when economic and environmental benefits align, delivering improved performance, operational efficiency and sustainable impact.

eROI stands for exponential return on investment

Our approach sets us apart. eROI is how we demonstrate it, by showing our customers' return on investment with measurable, meaningful outcomes.

In 2022, eROI projects led to more than \$1.1 billion globally in Total Value Delivered for our customers.

By helping define and deliver value, Ecolab supports our customers, enhancing the impact they create in the world. Our practices align with our customers' ambitions and drive exponential business results that enable healthy environments and communities.

▶ WE PARTNER WITH OUR CUSTOMERS TO BUILD A 100% POSITIVE FUTURE, TOGETHER



Delivering on Vail Resorts' EpicPromise

Insights

Vail Resorts is a leading global mountain resort operator with 41 resorts in 15 states and four countries as well as travel-centric retail and hospitality businesses. As a company, they are driven by their corporate responsibility platform, EpicPromise, which includes a commitment to achieve a zero net operating footprint by 2030.

Their climate goals are focused on achieving zero net emissions and zero waste to landfill alongside improving the health and resilience of forests and habitat. Vail Resorts' EpicPromise truly embodies their dedication to ignite a passion for the outdoors, conserve the natural environment and support local communities for a bright, sustainable future.

Actions

Looking to use sustainably-driven solutions as much as possible across their operations, from guest rooms to the kitchen to laundry services, Vail Resorts works with Ecolab to help deliver a positive environmental impact while delighting guests in clean and safe spaces.

Ecolab solutions like our [Aquanomic™ Laundry](#) and [SMARTPOWER™](#) warewashing programs help reduce wash time, water usage and water temperature and are implemented across Vail Resorts properties to enhance energy efficiency and reduce emissions. These programs not only support Vail Resorts' ambition to achieve zero net emissions by 2030, but also maintain the company's high guest standards.

In addition, Ecolab's [Oasis Pro™ Housekeeping](#) program is utilized to help support Vail Resorts' goal to achieve zero waste to landfill by 2030. As concentrated liquids, Oasis Pro products reduce plastic packaging waste by up to 80% compared to traditional containers while enhancing employee safety with easy-to-use designs.

Outcomes

Ultimately, Ecolab and Vail Resorts are collaborating to help reduce the environmental impact of operations, advancing progress toward Vail Resorts' EpicPromise to do good for guests, communities and the planet.



eROISM
by Ecolab

Annual Savings



Water

5.2 million gallons
(19,700 m³)



Energy

4.1 billion BTU



Greenhouse Gases

225 metric tons
of CO₂e



Waste

31,000 pounds
of packaging waste



Productivity

13,000 hours
of labor gained



Assets

\$73,000
maintenance costs avoided



Human Health & Safety

Automated dispensing systems
reduce employee exposure

Total Value Delivered
\$265,000

Learn more about eROI



Helping Sinopec achieve peak performance while reducing its environmental impact

Insights

Sinopec Chongqing SVW Chemical Company (SVW) is a chemical manufacturer based in China. The company is focused on continuously improving water reuse and recycling while increasing output and aligning with the Chinese government's efforts to conserve energy and reduce emissions. SVW recently launched an initiative to recycle wastewater for use in its cooling towers at its plant in Chongqing, China.



Actions

Ecolab's water and process management business, Nalco Water, worked with SVW to develop a program that is designed to control corrosion and scale while maintaining a ratio of up to 60% recycled wastewater in the cooling tower makeup water. SVW implemented Nalco Water's corrosion control solution for cooling systems, along with [3D TRASAR™ Technology](#) to provide integrated water quality management along with real-time, automated monitoring and dosing.



Outcomes

The partnership with Nalco Water enabled SVW to achieve historically high levels of compliance with key control and performance indicators in the cooling water systems (>99%). It also improved system reliability, water use and sustainable development and led to substantial cost savings. In addition, production increased and maintenance time was reduced, due to the prevention of leaks in the heat exchanger system.

eROISM
by Ecolab

Annual Savings



Water

630 million gallons
(~2.4 million m³)



Energy

29 billion BTU



Greenhouse Gases

750 metric tons
of CO₂e



Costs

\$890,000
in preventative maintenance costs



Product Quality

>99%
compliance with key control and performance indicators



Environmental Responsibility

Compliance with environmental regulations

Total Value Delivered

\$1.7M

Learn more about eROI

Sustainable solutions take Loews Hotels to new heights

Insights

Loews Hotels & Co is a hospitality company that owns or operates 26 hotels and resorts in the U.S. and Canada. The company is committed to adopting solutions that help reduce its environmental footprint while maintaining a high-end experience for its guests.

To this end, Loews Hotels & Co has set a goal of reducing portfolio-wide energy use intensity by 30% by 2030. It also actively sources recyclable products to reduce packaging waste and works to protect earth's natural resources through partnerships with sustainable suppliers across its value chain.

Actions

Nalco Water, Ecolab's water and process management business, partnered with Loews Hotels & Co to deliver solutions designed to reduce water, energy, emissions and waste. These include [3D TRASAR™ Technology](#), which minimized scale and corrosion in the company's cooling towers to enhance asset protection and efficiency while dramatically reducing water and energy usage.

Loews Hotels & Co has also realized sustainability and safety benefits by switching from single-use drums of product to Nalco Water's [PORTAFEED™ delivery service](#). The system helps reduce waste by providing chemistry in reusable containers and enhances worker safety by simplifying chemical handling through "hands-off" dispensing.

In addition, the company transitioned from using traditional liquid products to 3D [TRASAR solid concentrates](#), which has reduced plastic waste, eliminated the need for employees to lift heavy pails and helped minimize exposure risks.

Ecolab and Nalco Water also deliver a wide range of solutions to Loews Hotels & Co including water safety programs for its pools and spas, the [SMARTPOWER™](#) warewashing program, which helps reduce wash time, water usage and water temperature, and [Oasis Pro™ Housekeeping solutions](#), which reduce plastic packaging and improve productivity through easier, faster cleaning processes.

Outcomes

The simple and resource-efficient solutions provided by Nalco Water and Ecolab helped Loews Hotels & Co save money, water and energy and reduce waste, enhancing its sustainability efforts while continuing to provide a stellar experience to its guests.



[Learn more about eROI](#)

eROISM
by Ecolab

Annual Savings



Water

57.6 million gallons
(~218,000 m³)



Energy

3 million kWh



Greenhouse Gases

1,400 metric tons
of CO₂e



Waste

75,000 lbs



Productivity

92,000 hours
of labor gained by reduced rewash,
avoided chemistry handling and
faster cleaning processes



Assets

\$70,000
asset life extension



Human Health & Safety

Advanced packaging
and dispensing systems
reduce exposure

Total Value Delivered

\$1.7M

Nourishing Sustainability and Safety at Dine Brands Restaurants

Insights

Dine Brands Global is one of the largest full-service restaurant companies in the world. Through its subsidiaries, it franchises restaurants under the Applebee's Neighborhood Grill + Bar®, IHOP® and Fuzzy's Taco Shop® brands.

The company is committed to operating its restaurants safely and in an environmentally and socially responsible manner. To that end, it continually seeks ways to enhance safety and reduce its environmental impact.



Actions

Dine Brands partnered with Ecolab to optimize its product portfolio to reduce water, energy and waste while enhancing employee safety and achieving operational savings.

Examples include:

- Adopting Ecolab's [SMARTPOWER™](#) program, a dishwashing program that combines innovative chemistry with actionable insights designed to deliver clean dishes and glassware while reducing water, energy and costs. SMARTPOWER technology reduces plastic use by up to 99%, as compared to traditional packaging, by replacing five-gallon plastic pails with shrink-wrapped blocks. The program also drives safety through a safe-to-touch, spill-proof technology.
- Moving to concentrated liquids through the [Oasis and Oasis Pro™](#) program, which can reduce packaging waste by up to 80% as compared to traditional containers. The Oasis line also enhances employee safety with an easy-to-use design.
- Changing to [Solid Power™ XL](#), a dishwashing detergent that provides 50% more washes per capsule, reducing packaging waste by 33% as compared to traditional solutions. Solid Power XL also incorporates 40% post-consumer resin into its packaging design.
- Boosting productivity by adopting a one-step floor cleaning and sanitizing process via [Sanitizing Wash 'n Walk™](#), a no-rinse solution.

Outcomes

The partnership with Ecolab has helped Dine Brands advance its sustainability goals while increasing employee safety and delighting its customers with the best possible dining experience.



eROISM
by Ecolab

Annual Savings



Water

8.6 million gallons
(~32,500 m³)



Energy

14.6 billion BTU



Waste

387,000 pounds
reduced waste



Greenhouse Gases

780 metric tons
of CO₂e



Productivity

137,000 hours
of labor gained by reduced rewash and avoided chemistry handling



Assets

\$21,000
High-performance programs extend asset life



Human Health & Safety

Advanced packaging and dispensing systems reduce exposure

Total Value Delivered

\$1.5M

Learn more about eROI

A Host of Solutions Helps Aimbridge Hospitality Deliver Sustainability Benefits to its Partners

Insights

As a leading, global hospitality management company, Aimbridge Hospitality drives efficiencies and profitability at hotels and resorts with top lodging brands. In alignment with its operations offerings, Aimbridge Hospitality is dedicated to driving a collaborative, sustainable and social impact journey for its hospitality partners and stakeholders. Its ongoing work includes providing products, services and solutions that address environmental, social and governance (ESG) issues meaningful to its business, associates, guests, partners and communities.

As part of this commitment, Aimbridge Hospitality incorporates the sustainability principles of the American Hotel & Lodging Association's Responsible Stay initiative across its business functions. Additionally, Aimbridge Hospitality focuses on offering enhanced data and analytics tools and reports that enable hotel owners to track and communicate key sustainability metrics.



Actions

As Aimbridge Hospitality continues to grow its ESG program, it fosters partnerships with strategic suppliers to offer more products and services focused on sustainable practices and reporting. In collaboration with Ecolab, Aimbridge Hospitality employs a range of solutions to help reduce the environmental footprint of its partners:



- [Aquanomic™ Low Temp Laundry Program](#) yields consistently white linens and significant water and energy savings over traditional laundry programs.
- [SMARTPOWER™](#) delivers superior dishware cleanliness alongside environmental benefits achieved, in part, through reduced wash times and reduction of plastic packaging.
- Through remote monitoring and smart sensors, [3D TRASAR® Technology](#) protects critical assets and maximizes cooling water efficiency for water, energy and emissions savings.
- Aimbridge Hospitality has also helped its partners achieve additional water, energy, emissions and waste reductions while improving productivity with [Sanitizing Wash 'n Walk™](#) and [Oasis Pro®](#) housekeeping solutions.

Outcomes

Collaboration with Ecolab has helped Aimbridge Hospitality realize impactful sustainability benefits while delivering on the performance and operational needs of its hotel owners.

[Learn more about eROI](#)

eROISM
by Ecolab

Annual Savings



Water

209 million gallons
(~791,000 m³)



Energy

130 billion BTU



Greenhouse Gases

9,600 metric tons
of CO₂e



Waste

590,000 lbs



Productivity

126,000 hours
of labor gained by reduced rewash and faster cleaning processes



Assets

\$6.5 million
asset life extension



Human Health & Safety

Automated dispensing systems and advanced packaging designs reduce employee exposure

Total Value Delivered

\$10.2M

Delivering on our purpose

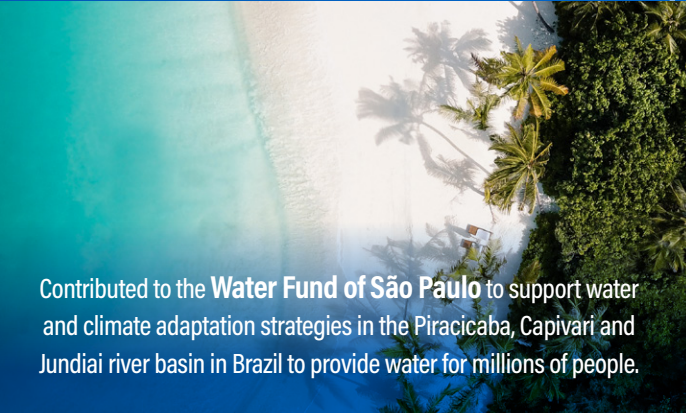
Ecolab grew our impact in 2022 by working in our operations and with global partners to improve the health of people, the planet and businesses around the world. Our 100-year legacy of protecting the resources vital to life continued through significant action.

► 2022 HIGHLIGHTS INCLUDE



ALLIANCE FOR WATER STEWARDSHIP

Achieved **Alliance for Water Stewardship (AWS)** certifications at two Ecolab facilities, bringing our total AWS-certified facility count to eight across Brazil, China, Mexico and the U.S.



Contributed to the **Water Fund of São Paulo** to support water and climate adaptation strategies in the Piracicaba, Capivari and Jundiaí river basin in Brazil to provide water for millions of people.



Grew our employee-led **Global Sustainability Network** to more than **1,300 associates** to accelerate our sustainability impact.



ECOLAB WATER FOR CLIMATE
Advancing Sustainable Growth

Launched our **Ecolab Water for Climate™** program to help companies meet their ambitious climate goals without compromising business growth.



UN GLOBAL COMPACT | **WATER RESILIENCE COALITION**

Reaffirmed our commitment with the **Water Resilience Coalition**, a CEO-led initiative, to work collectively to address the global water crisis.



Donated **\$83 million** in the form of product donations, cash grants and associate volunteerism to global communities.

Awards and recognition

We are proud to be recognized by many organizations for our innovation, service and commitment to operating responsibly and sustainably while meeting the needs of our customers.



Sustainability

Global 100 World's Most Sustainable Corporations
Corporate Knights

ESG AAA Rating
MSCI

Top 100 Most Sustainable Companies
Barrons

DJSI World and North America Indices
S&P Global

Climate & Water Security (A-)
CDP

Terra Carta Seal



Corporate responsibility

America's Most Responsible Companies
Newsweek

100 Best Corporate Citizens
3BL Media

FTSE4GOOD Index Series
FTSE4GOOD



Diversity, equity, and inclusion

Gender Equality Index
Bloomberg

Top 50 Companies or Diversity
Diversity Inc

Best Places to Work for LGBTQ+ Equality
Human Rights Campaign

Best Places to Work for Disability Inclusion
Disability Equality Index

Best Employers for New Grads
Forbes



Global good

Americas Most JUST Companies
JUST Capital & CNBC

World's Most Admired Companies
Fortune

World's Most Ethical Companies
Ethisphere

50 Best Companies to Sell for
Selling Power



Building a 100% positive future, together with our customers

Delivering a consistent, positive impact on the world requires a collective effort. It is a mindset that propels us, our customers and our communities forward. Our 2030 Impact Goals are a reflection of our ongoing dedication to building a 100% positive future and to delivering strong value to customers and shareholders.



BY 2030, WE AIM TO:



WATER

Help customers conserve **300 billion** gallons of water, equivalent to the drinking water needs of **1 billion** people



CLIMATE

Help customers become carbon neutral by reducing greenhouse gas emissions by **6 million** metric tons, preventing almost **10 million** pollution-related illnesses



FOOD

Help customers provide high-quality and safe food to **2 billion** people, preventing **11 million** foodborne illnesses



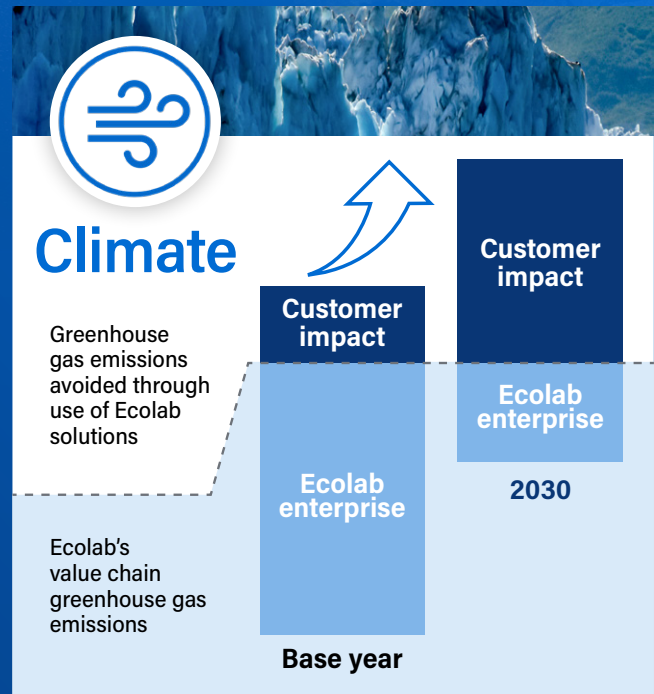
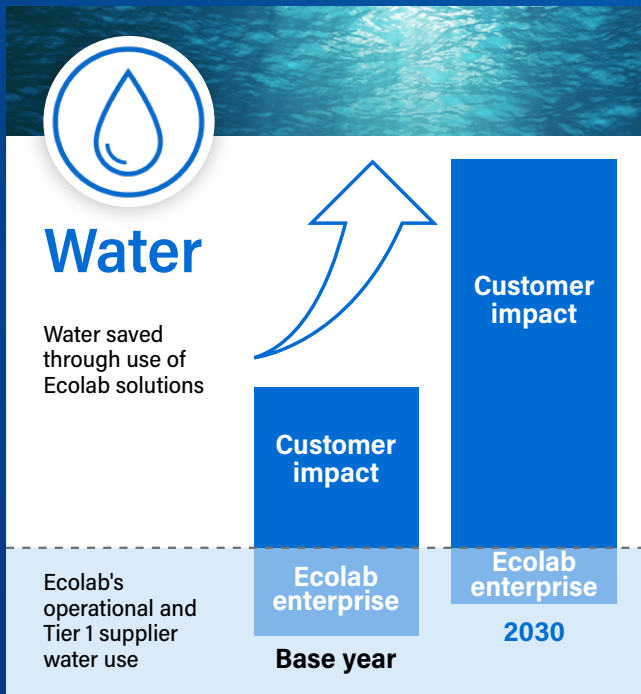
HEALTH

Help clean **90 billion** hands and provide safe medical care for **116 million** people each year, reducing more than **1.7 million** infections

Realizing our 2030 Impact Goals

We expect to expand our positive water and climate impact by achieving our science-based targets in our operations and maximizing outcomes through customer partnerships.

Achieving a positive contribution by 2030



Learn more about how we can help you achieve exponential results through responsible operations: [Ecolab.com/CSR](https://www.ecolab.com/CSR)



Contact your Ecolab sales representative to learn more about how we can help you increase efficiency while reducing water, energy, greenhouse gas emissions, and more.

The results in the case studies included in this document are specific to the individual customers and may vary for other customers based on factors and circumstances in their operations.



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