



2021

Sustainability Overview

# PROMISES DELIVERED

► For Customers, People and the Planet

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

**ECOLAB**<sup>®</sup>

# WORKING TOWARD A MORE SUSTAINABLE FUTURE

In 2021, despite the many challenges facing us, Ecolab continued to drive progress alongside our customers to deliver on our promise to provide a meaningful, measurable impact on people, planet and business health.

We not only made tremendous advances in our 2030 customer goals, we also made great strides in our

efforts to achieve a net positive water impact, reduce carbon emissions, support a diverse and inclusive workforce and prioritize safety everywhere we work.

Through our commitment to protecting the environment, addressing social concerns and adhering to responsible policies and practices, our innovative teams help solve some of the world's greatest challenges.

## HERE'S HOW OUR PARTNERSHIP HELPED EMPOWER OUR CUSTOMERS IN 2021



**215 billion**

Gallons of water conserved



**3.6 million**

Metric tons of CO<sub>2</sub>e avoided



**1.4 billion**

People safely fed with high-quality food



**60 billion**

Hands cleaned

## MOVING FROM COMMITMENTS TO ACTION

We met the challenges of 2021 by accelerating our efforts to protect the health and safety of people around the world. We continued to form partnerships that support programs and initiatives that help protect people and vital resources. And we provided relief to communities in need through product and monetary donations.

### 2021 HIGHLIGHTS INCLUDE



Received **Alliance for Water Stewardship (AWS) certification** for two additional manufacturing sites in Mexico and received our **first-ever platinum certification** for our facility in Taicang, China



Helped fund a landmark water conservation project to help shore up Lake Mead, facilitated by the **Bonneville Environmental Foundation**, an Ecolab partner



Signed a **virtual power purchase agreement** in Finland that will enable us to **achieve 100% renewable electricity by 2030**



Launched an **employee-led Global Sustainability Network** to accelerate Ecolab's growth and impact



As a **co-founder of the Water Resilience Coalition**, a CEO-led movement, Ecolab continued to work collectively to address global water challenges



Donated **\$40 MILLION** to local communities and more than **\$27 MILLION** in products to worldwide relief efforts

## 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.



### A World's Most Ethical Company

For the 15th consecutive year, Ecolab was named one of the World's Most Ethical Companies by the Ethisphere Institute.



### A Leading Corporate Citizen

For the eighth consecutive year, Ecolab ranked in the top 10 on 3BL Media's list of Best Corporate Citizens, placing eighth in 2021.



### A World's Most Admired Company

For the seventh consecutive year, Ecolab was named to Fortune's list of the World's Most Admired Companies.



### A Most Responsible Company

For the second consecutive year, Ecolab was named to Newsweek's list of America's Most Responsible Companies, ranking 42nd on the 2021 list.



### A Most Just Company

Ecolab was named one of America's Most Just Companies by Forbes, ranking 22nd on the 2021 list.

Member of  
**Dow Jones Sustainability Indices**  
Powered by the S&P Global CSA



### A Leader in Climate and Water Security

Ecolab was recognized on CDP's A-Lists for its efforts to combat climate change and protect water security, and was named to CDP's Supplier Engagement Leaderboard.



### A Leading Sustainability Company

For the seventh consecutive year, Ecolab achieved a Platinum EcoVadis Sustainability Rating, which places Ecolab in the top 1% of sustainable companies.



### A Most Sustainable Company

For the fourth consecutive year, Ecolab was named to Barron's list of the Most Sustainable Companies in the U.S., ranking third on the 2021 list.



FTSE4Good

### A Leading ESG Company

For the fourth consecutive year, Ecolab was named to the FTSE4Good Index for its strong environmental, social and governance practices.



### A Top Company for Diversity

Ecolab was named a Top Company for Diversity by DiversityInc, ranking 34th on the leading assessment of diversity management in corporate America.



### A Leading Company for Gender Equality

Ecolab was named to Bloomberg's 2021 Gender-Equality Index, which tracks the performance of public companies committed to supporting gender equality.



### A Best Place to Work

For the ninth consecutive year, Ecolab was named a Best Place to Work for LGBTQ+ Equality by the Human Rights Coalition for its perfect score on the Corporate Equality Index.



### A Best Company for Families

Ecolab was named one of the 100 Best Companies of 2021 for its commitment to inclusive benefits for families by Seramount (formerly Working Mother Media).



### A Best Company to Sell For

For the sixth consecutive year, Ecolab was named a Best Company to Sell For by Selling Power Magazine, ranking 20th on the 2021 list.



# DELIVERING FOR OUR CUSTOMERS

By improving performance, operational efficiency and sustainable impact

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



## Delivering value and empowering customers to achieve both business and sustainability goals

The eROI success stories in our 2021 Corporate Sustainability Overview demonstrate how Ecolab helps deliver outcomes that benefit people, planet and business health through partnerships, insights, technology and expertise. We help customers achieve business and sustainability goals - without tradeoffs.

Whether we are helping to minimize greenhouse gas emissions, conserve water or advance health and safety, Ecolab drives value for customers in a wide range of industries. 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 2021, eROI projects led to more than \$750 million globally in Total Value Delivered for our customers.

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

Our impact is broad and expansive. Here is a sampling of the outcomes that we deliver to our customers every day.

	
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

**▶ WE DELIVER ON OUR PROMISES FOR PEOPLE, PLANET AND BUSINESS HEALTH.**

# GENERATING RENEWABLE ENERGY AND SUSTAINABLE OPERATIONS WITH EDC

Total value delivered  
**\$3.8M**

## Insights

Geothermal power is a sustainable, reliable and renewable energy source that uses heat from the earth's molten core to make electricity by pumping hot water from deep underground wells to generate steam. Energy Development Corporation (EDC) in the Philippines is the world's largest vertically integrated geothermal company with proven expertise in exploring, harnessing and sustainably generating power from steam. EDC is committed to advancing sustainability by employing new technologies to reduce its environmental footprint while optimizing operations.

One of its sites was experiencing fouling due to scale and corrosion caused by mineral deposits of silica and iron sulfide. Without action, EDC faced a 65% annual decrease in geothermal output. To avoid potential operational disruptions, the company had to manually remove the scale two times a year at a cost of \$20,000.

## Actions

Nalco Water, Ecolab's water and process management business, implemented a scale-inhibition program based on laboratory simulations using Nalco Water's Geomizer™, a digital modeling tool that is designed to predict a plant's risk of scale and corrosion. Nalco Water's Geomizer™, Geothermal Scale Modeling Tool enabled a reduction in silica buildup by leveraging a patented Silica Inhibitor Program that also helped disperse and control iron sulfide.

## Outcomes

Within four months, Nalco Water's treatment program led to a 70% annual reduction in scaling and helped avoid a corresponding decline in production. It also helped reduce downtime, minimized chemistry use, and extended the period between mechanical pipeline cleanings from twice a year to once every two years.

**"EDC's partnership with Nalco Ecolab synergizes the strengths of both teams that allowed us to continuously address the complex but worthwhile challenges towards safe and sustained geothermal operations."**

- Erlindo Angcoy, Strategic Technology, and Innovation - Subsurface Group/Geothermal Resource, EDC.

## Featured Solutions

- Nalco Water's Geomizer™ Modeling Software
- Nalco Water's Geomizer™, Geothermal Scale Modeling Tool
- Nalco Water's Silica Inhibitor Program

[See Featured Solutions](#)



## eROI<sup>SM</sup> by Ecolab Annual Savings

### Energy



**200 trillion BTU**  
of clean energy produced

### Safety



**75%**  
reduction in mechanical cleanings, greatly reducing employee risk

### Productivity



**40%**  
increase in well output

### Greenhouse Gas (CO<sub>2</sub>)



**78,000**  
metric tons

### Asset Protection



**\$315,000**  
in savings by preventing mechanical cleaning

Total Value Delivered  
**\$3.8M**

# ACCELERATING SUSTAINABLE GROWTH WITH KRAFT HEINZ



Total value delivered  
**\$1.2M**

## Insights

The Kraft Heinz Company is one of the largest food and beverage companies in the world. Its Vision to “Sustainably Grow by Delighting More Consumers Globally” includes a commitment to responsible, sustainable practices in every facet of its operations.

Kraft Heinz has prioritized projects across its global manufacturing network in the areas of water conservation, energy use and greenhouse gas emissions (GHG), waste reduction and packaging. It has pledged to achieve net zero carbon by 2050 and to get halfway there by 2030. In 2020, the company set ambitious manufacturing targets for 2025. Kraft Heinz aims to decrease water use intensity by 20% in high-risk watershed areas and by 15% across its manufacturing facilities, and to decrease energy use intensity by 15% and waste to landfill intensity by 20% across its manufacturing facilities.

## Actions

Kraft Heinz and Ecolab are partnering closely to help achieve these ambitious goals. Together, the companies have adopted a comprehensive approach to sustainability that includes hundreds of projects at manufacturing sites across North America - aimed at reducing the company’s water and emissions footprint, ensuring product quality, compliance and improving operational efficiency.

Through water reuse, cleaning efficiency and optimization projects, Ecolab worked with Kraft Heinz to conserve millions of gallons of water. These efforts have helped ensure that Kraft Heinz has sufficient water for its operations, while reducing its intake of local freshwater.

3D TRASAR™ Technology has played a major role in boosting water and energy efficiency in critical utility systems while its Clean in Place (CIP) program has helped optimize cleaning efficiency to improve cleaning turnaround time and increase production. In addition, Ecolab and Kraft Heinz are working closely to conduct Total Plant Assessment (TPA) audits, which provide a holistic, end-to-end review of a Kraft Heinz facility’s water and energy use followed by recommendations for mitigating water and energy use. This enables Ecolab and Kraft Heinz to continuously identify and drive operational and environmental improvement projects. Four TPAs were conducted in 2021 at Kraft Heinz manufacturing sites.

## Outcomes

As a result of these initiatives, Kraft Heinz has achieved substantial water and energy use reduction and financial savings, as well as reduced greenhouse gas emissions and greatly enhanced productivity and efficiency at its North American manufacturing facilities. The partnership demonstrates the organizations’ shared values, empowering sustainable outcomes as we work together for a healthier world.



## eROI<sup>SM</sup> by Ecolab Annual Savings

### Water



**51 million gallons**  
(193,000 m<sup>3</sup>)

### Energy



**1.3 billion BTU**  
(410 MWh)

### Greenhouse Gas (CO<sub>2</sub>)



**170 metric tons**

### Productivity



**66 days**

Total Value Delivered  
**\$1.2M**

## Featured Solutions

- 3D TRASAR™ Technology for cooling water, boilers and wastewater

3D TRASAR CIP Technology >

3D TRASAR For Boilers >

3D TRASAR For Cooling Water >

3D TRASAR For Wastewater >

# CONSERVING FRESHWATER FOR CARGILL IN FRANCE

Total value delivered  
**\$45K**

## Insights

Cargill is one of the main global processors and producers of edible oils such as organic, non-GMO sunflower oil and non-GMO soybean oil. The production process uses water as a raw material, cleaning agent and as feedwater for utilities and operations. One of Cargill's sites in France had experienced frequent droughts in recent years. The company was looking for a solution that would enable it to reduce its freshwater intake while maintaining the stability and reliability of its production process.

## Actions

Cargill turned to its longtime partner Ecolab, an industry leader in water and process management. The solution: recycling water from the site's effluent, or wastewater, treatment plant for reuse in the plant's cooling system. Ecolab's 3D TRASAR™ Technology and Nalco Water's Oxidant Controller were employed to monitor and control critical water performance indicators, such as scale, corrosion and microbial fouling.



## Outcomes

A year after implementation of the wastewater recycling project, the plant was able to repurpose 93% of the wastewater for use in the cooling system. The recycled wastewater replaced 53% of the freshwater consumption in the cooling system. In addition, the plant's wastewater discharge to the municipal sewer system was reduced by 93%. Through its partnership with Nalco Water, Cargill was able to become more resilient to water stresses in the watershed and help preserve drinking water in support of the French government's efforts to prioritize and limit water use, particularly during drought conditions.

## eROI<sup>SM</sup> by Ecolab Annual Savings

### Water



**859,000 gallons**  
(32,500 m<sup>3</sup>) of water

### Waste



**93%**  
reduction in effluent  
outflow from site

### Cost



**\$5,000**  
Reduction in  
wastewater effluent  
discharge costs

Total Value Delivered  
**\$45K**

## Featured Solutions

[3D TRASAR Technology for Wastewater >](#)

[3D TRASAR Technology for Cooling Water >](#)

[Nalco Water Oxidant Controller >](#)

# ADVANCING SHELL'S AMBITION TO BECOME A NET-ZERO EMISSIONS ENERGY BUSINESS

Total value delivered  
**\$10.8M**

## Insights

Shell is an international energy company with expertise in production and refinement of oil and natural gas and chemical manufacturing. With operations in over 70 countries, Shell has adopted an innovative approach to sustainability, with the goal of becoming a net-zero emissions energy business by 2050.



As part of this ambition, Ecolab works in collaboration with Shell at its energy parks worldwide to deliver sustainable solutions, including connected chemistry, advanced data analytics, and on-site expertise. Ecolab is working with Shell to help reduce emissions in Shell's operations through energy efficiency improvements and engaging across its value chain through the Shell Supplier Energy Transition Hub.

## Actions

Nalco Water, Ecolab's water and process management business, partnered with the Shell team at its Rotterdam, Netherlands, Energy Park to maximize ethylene production and optimize energy use, which significantly reduced the facility's greenhouse gas emissions. Using advanced data analytics and on-site expertise, the Nalco Water team was able to address contaminants and help protect against future water-related risks for critical equipment.

Nalco Water's COMPTRENE™ Compressor Program helped Shell improve energy efficiency and reduce emissions by removing mineral scale from equipment. Not only did this maximize production output, but it also lengthened the lifespan of essential assets. The Ecolab team also worked with Shell to expand the COMPTRENE program to other manufacturing facilities to grow both operational and environmental impacts.

In addition, Ecolab is collaborating with Shell by engaging through the Shell Supplier Energy Transition Hub. Shell's Supplier Energy Transition Hub is a digital platform created to exchange emissions data, share best practices and explore low-carbon solutions to support the collective energy transition movement. As a key collaborator, Ecolab uses the platform to share verified emissions data with Shell and its supply chain. Not only does the Supplier Energy Transition Hub reinforce Ecolab's progress toward reducing emissions by 50% by 2030 and achieving net-zero by 2050, it also compares our performance with Shell's broader supplier base. In 2020, Ecolab ranked first in our sector in performance against our emissions reduction ambition.

## Outcomes

Through on-site expertise and technology, Ecolab has helped Shell make strides toward a net-zero future by conserving energy and reducing emissions while continuing to deliver reliable and efficient chemical products.

Ecolab will continue to partner across our value chain with organizations like Shell to drive collective climate action. Collaborative tools like the Supplier Energy Transition Hub platform can help make a positive impact by enabling suppliers to track tangible progress toward their emissions goals. Together, we are driving positive change for the betterment of people, planet and business health.

**eROI<sup>SM</sup>**  
by Ecolab

**Annual Savings**

<b>Energy</b>	 <p><b>815,000 MMBTU</b></p>
<b>Greenhouse Gases</b>	 <p><b>44,000 metric tons of CO<sub>2</sub>e</b></p>
<b>Profitability</b>	 <p><b>\$6 million</b> Prevented product loss</p>
<b>Asset Protection</b>	 <p><b>High performance program maintains and protects critical equipment</b></p>

**Total Value Delivered**  
**\$10.8M**

## Featured Solutions

- COMPTRENE™ Compressor Program
- On-site expertise
- Advanced data analytics

# ADVANCING A SUSTAINABLE FUTURE TOGETHER WITH OUR CUSTOMERS

The world's most pressing challenges require innovation, expertise and bold solutions that have a positive impact on people, planet and business health. We help our customers thrive and make a positive impact in their operations, their communities and the world.



## 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

▶ 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 summary are specific to the individual customers and may vary for other customers based on factors and circumstances in their operations.

**ECOLAB**<sup>®</sup>

Global Headquarters  
1 Ecolab Place, St. Paul, MN 55102  
[www.ecolab.com](https://www.ecolab.com) | 1800 2 ECOLAB

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