

ADVANCING CLEANING INNOVATION

American Cleaning Institute
Sustainability Report 2024



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INTRODUCTION

HOW WE LEAD

*Pillar is defined as
“a supporting, integral
or upstanding part... a
fundamental precept.”*

To me, this exemplifies why sustainability is one of the four key pillars of the American Cleaning Institute (ACI).

Our focus is to drive and amplify impactful industry action to foster and shape a more sustainable world.

Sustainability has been at the forefront of ACI for two decades, since we unveiled our first Principles for Sustainable Development in 2004.

Since then, so much has happened in our industry and on our planet. Our work in this space has evolved considerably, especially in the last two years, when we have:

- Expanded ACI's Sustainable Feedstocks Initiative and provided case studies focused on companies' sustainability successes;
- Gained new ACI member company commitments to our 1.5° Challenge, in which companies are striving to reach net-zero global emissions by 2050;
- Promoted sustainable cleaning behaviors through our Cold Water Saves and Our Future is Clean social media campaigns; and

- Unveiled a new Material Circularity Indicator (MCI) tool to support our member companies' efforts to improve their cleaning product packaging circularity.

While we are proud of what we have accomplished, sustainability is really all about the future.

Despite an unpredictable political and economic landscape, ACI's sustainability pillar must remain strong to ensure that the cleaning product supply chain can continue to innovate and manufacture chemistries and products that are indeed more sustainable. Many examples of these initiatives are on display annually at the ACI Industry Convention Innovation Showcase.

We must use and highlight these innovations as we advocate for our member manufacturers to ensure that we can reduce or eliminate roadblocks to a more sustainable future.

ACI will remain supportive of the U.S. Environmental Protection Agency (EPA) Safer Choice Program, which helps consumers, businesses and purchasers find effective products with ingredients that are safer for human health and the environment.

We will focus on education and awareness raising within our membership of ongoing Environmental Justice programs, striving to continuously improve and assist cleaning product and chemical manufacturers in their efforts to be better neighbors to all their communities.

Working for a more sustainable planet will never be easy, but we know that the cleaning products industry is committed to progress, transparency and accountability as part of its sustainability journey.

I hope you will find this latest Sustainability Report from ACI informative and compelling as we strengthen our priority pillar in the years ahead.



Melissa Hockstad

Melissa Hockstad
President and CEO
ACI



OUR SUSTAINABILITY GOALS

To be sustainable, we must meet our current needs while constantly innovating to provide solutions and approaches that will benefit future generations. Our sustainability strategy unites our members to achieve common goals and advance the industry toward a cleaner, safer world. In this report, we provide an update on our progress and highlight innovative member initiatives that affect change across the broader cleaning products industry.

UNITING FOR A CLEANER WORLD



CONTRIBUTE POSITIVELY

To invest in our shared future globally by extending our collective impact in support of the United Nations (UN) Sustainable Development Goals (SDGs).

▶ [Read more on Page 06](#)



INCREASE TRANSPARENCY

To uphold good health and well-being for all people by providing the information people need to make informed decisions when choosing cleaning products.

▶ [Read more on Page 14](#)



VALUE NATURE

To move toward a more circular global economy by optimizing the use of natural resources, advancing water stewardship and eliminating waste.

▶ [Read more on Page 19](#)



REDUCE EMISSIONS

To confront global average temperature rises by accounting for and reducing greenhouse gas (GHG) emissions across our value chain.

▶ [Read more on Page 28](#)



KEY HIGHLIGHTS

2024 UPDATES

CONTRIBUTE POSITIVELY

ACI is working to educate the industry on Environmental Justice to support the cleaning products supply chain to be a better neighbor to the communities in which we operate.

INCREASE TRANSPARENCY

In 2022, 2023 and 2024, the EPA again named ACI as a Safer Choice Partner of the Year. The Safer Choice program helps consumers and purchasers for facilities, such as schools and office buildings, find products that perform and are safer for human health and the environment.

VALUE NATURE

In 2023, ACI Launched the Sustainable Feedstocks Initiative. Since the roll out of this initiative, six member companies have joined as they work to source more sustainable ingredients for cleaning products.

REDUCE EMISSIONS

Now with 22 members, ACI's 1.5°C Challenge asks members to commit to net-zero carbon emissions by 2050.



49%

of our members have strategies aligned with the SDGs or are reporting their impact on the SDGs.

7

members have Environmental Justice initiatives.

37%

of our members have committed to reaching net-zero emissions by 2050.



160+

companies are ACI members.

36%

of members disclose their carbon footprint through CDP.



14%

of our members have a goal to reach 0% waste to landfill.

21

of our members have aligned with or achieved the goal of all-circular product packaging.

60%

of our members have committed to using palm oil certified by the Roundtable on Sustainable Palm Oil (RSPO).



55%

of our members have GHG reduction targets.

45%

of our members have committed to increasing their use of renewable energy.



Contribute positively



Increase transparency



Value nature



Reduce emissions



CONTRIBUTE POSITIVELY

Aligning with Global Goals: SDGs

Our Global Future

There For All of Life's Stages

Environmental Justice

Celebrating Diversity

Our Goal: Contribute positively to our shared future through supporting the United Nations Sustainable Development Goals (UN SDGs).

There For All of Life's Stages
▶ [Read more on Page 10](#)



ALIGNING WITH GLOBAL GOALS: SDGS

WHAT ARE THE SDGS?

Created in 2015, the UN SDGs bring together government sectors, civil society, academia, industries, development partners and communities to ensure that all human beings can fulfill their potential in a healthy environment.

49%

of ACI members have aligned their sustainability strategies with the UN SDGs or are reporting their impact on them.

HOW DO WE ENGAGE WITH THEM?

The 17 SDGs provide an urgent call to action to end poverty and other deprivations by improving health and education and reducing inequality while tackling climate change and preserving biodiversity.

The SDGs underpin our Uniting for a Cleaner World framework and, therefore, our community's approach to sustainability. Integrating the SDGs into the broader strategic approach to conducting business is critical to securing the future of the industry.

The SDGs provide an ideal framework for our diverse members' achievement of positive impact across their respective value chains through a range of actions. We support them as they work to integrate the SDGs into their operations by providing them with tools and resources for progressing toward a more sustainable business.

We have mapped and benchmarked our own goals against the SDGs in this report to demonstrate our approach.



MAPPING ACI'S GOALS AGAINST THE SDGS



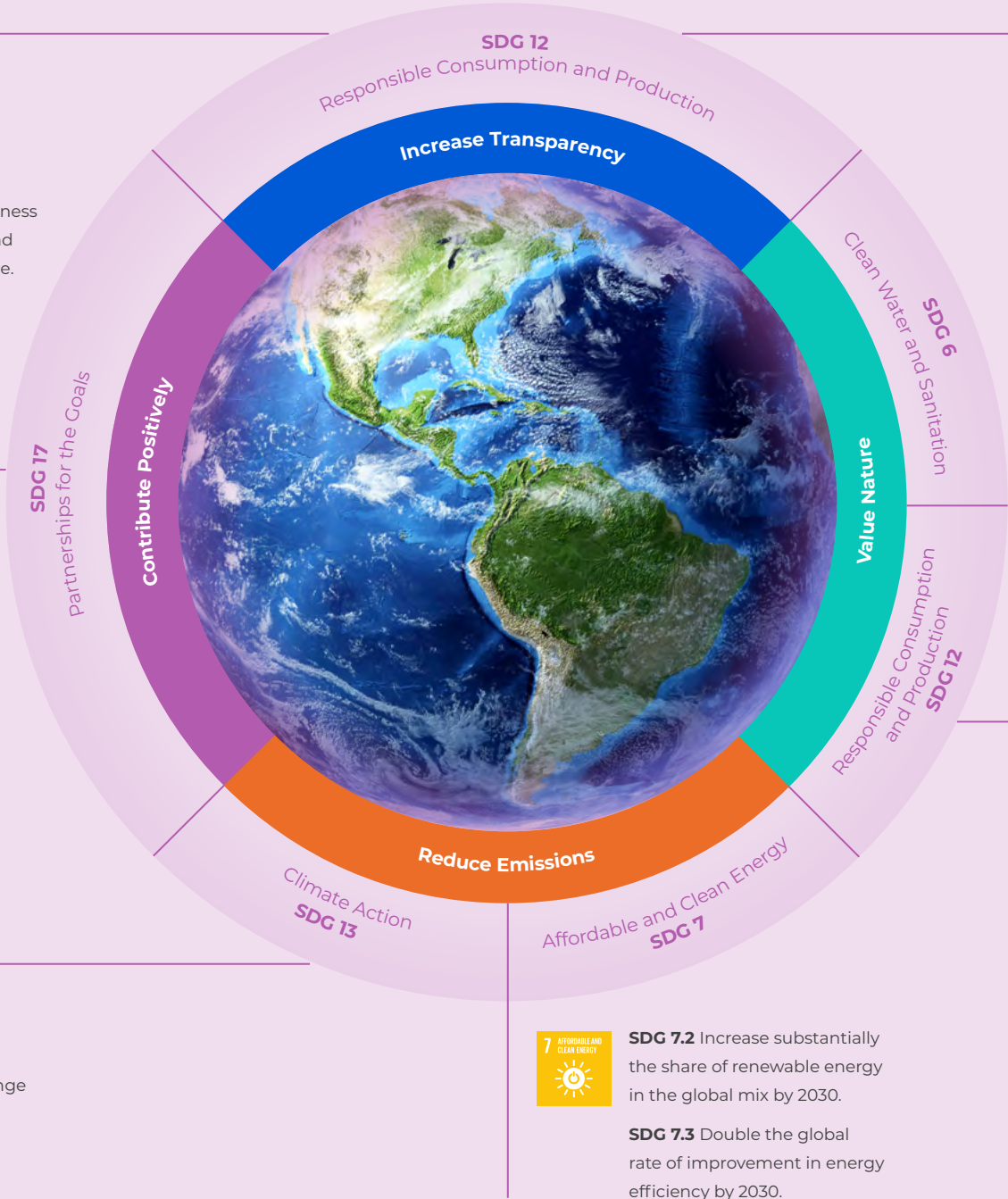
SDG 12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature.



SDG 17.17 Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships.



SDG 13.2 Integrate climate change measures into national policies, strategies and planning.



SDG 6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally.

SDG 6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity, and substantially reduce the number of people suffering from water scarcity.



SDG 12.2 By 2030, achieve sustainable management and efficient use of natural resources.

SDG 12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment.



SDG 7.2 Increase substantially the share of renewable energy in the global mix by 2030.

SDG 7.3 Double the global rate of improvement in energy efficiency by 2030.



Contribute positively



Increase transparency



Value nature



Reduce emissions

OUR GLOBAL FUTURE

Collaborative action is critical to achieving progress toward a more sustainable future.

As a trade association, ACI can harness and amplify our member companies' contributions — including new innovations — to the SDGs across the cleaning products industry. We also recognize that the scale and reach of the cleaning products industry provide opportunities for our members to extend their impact beyond our Uniting for a Cleaner World framework.



SUSTAINABILITY AS A CORE COMPANY BELIEF

Ecolab Inc., is a global sustainability leader offering water, hygiene and infection prevention solutions and services that protect people and the resources vital to life. In March 2024, Ecolab was named one of the World's Most Ethical Companies¹ by Ethisphere for the 18th consecutive year — since the inaugural award in 2007. In 2023, Ecolab achieved an A rating for its climate change and water security submissions to CDP and was named to CDP's supplier engagement leaderboard. This occurred in tandem with Ecolab having one of its best years of earnings per market share. Ecolab's approach to embedding sustainability into its business demonstrates a core company belief that companies can deliver on both their financial and environmental goals.

Ecolab actively engages with its supply chain and the broader industry to achieve the company's environmental goals. ACI's member company network provides a forum for Ecolab to meet with a high density of suppliers and supports meaningful conversations that result in impactful decision-making. Additionally, Ecolab leverages ACI's resources on climate, nature and safety to influence how the company innovates in response to customer needs and industry trends. By collaborating with member companies through ACI's Sustainability Committee, Ecolab works with other leading organizations to address high-priority sustainability topics.

For example, water use is a growing area of concern for customers. As a cofounder of the Water Resilience Coalition, a CEO-led coalition of the UN Global Compact CEO Water Mandate, Ecolab strives to drive corporate water management and work with partners across the globe to advance collective action in at-risk watersheds. Through its membership with ACI, Ecolab works with others in the industry to improve water efficiency and smart water management that yields improved water outcomes. As the company continues its journey toward achieving its goal of a net positive climate impact by 2030, ACI will remain a key forum for Ecolab to contribute positively.



¹ Ethisphere is a global leader in defining and advancing the standards of ethical business practices. Ethisphere uses a proprietary rating system called the Ethics Quotient®.

ACI'S CORPORATE COMPASS: FINDING THE PATH TO SUSTAINABILITY

ACI's *Corporate Compass* is a guidebook created for ACI member companies to support them in navigating sustainability priorities within the cleaning products industry. This comprehensive sustainability guidebook includes tools and resources designed specifically to help our industry collectively improve operational and supply chain impacts in the areas of our four sustainability goals. It guides ACI member companies in beginning their sustainability journey, and other companies in improving their existing practices. The guidebook includes a self-assessment tool for identifying gaps in sustainability programs and a four-part educational webinar series on the support available to ACI member companies in improving their environmental and social outcomes.



THERE FOR ALL OF LIFE'S STAGES

CLEANING IS CARING

Our cleaning habits change throughout our lives, and sometimes we need to develop new skills to clean effectively. We all learned that lesson during the COVID-19 pandemic, but new skills can be built whenever life changes, such as when welcoming a newborn or heading to college. To support communities through these life changes, ACI created a series of online toolkits as part of our Cleaning is Caring™ initiative. Over the past two years, we have expanded this initiative to include additional expert advice that demonstrates cleaning as a way to show we care and to protect our loved ones against the spread of infection and illness.

The initiative provides information and guidance on how to clean specific spaces in the following toolkits:

- The [C is for Clean Toolkit](#) provides resources for childcare facilities, with checklists, posters and handouts designed to educate and provide reminders on proper disinfecting, cleaning and hand hygiene.
- The [Class of Clean: The College Student's Guide to Cleaning Toolkit](#) arms college students with a range of highly visual and informative resources that address everything from the basics of cleaning and laundry to dividing cleaning responsibilities in shared living spaces. This toolkit, now four years old, received a [2023 Clarion Award](#) from the Association for Women in Communications.
- The [Clean First Steps Toolkit](#) provides resources for new parents on cleaning properly and safely for a baby.
- [Clean Means Business](#) provides resources for businesses to deploy in their workplace to help guide efforts and communicate the importance of proper cleaning practices and protocols as a priority and solution.
- The [Healthy Schools, Healthy People Program](#), a collaboration between ACI and the U.S. Centers for Disease Control and Prevention (CDC), is dedicated to supporting school systems nationwide with tools to reinforce hand hygiene and cleaning practices that prevent the spread of infectious disease and reduce related absenteeism.

The Cleaning is Caring initiative also supplies information on the benefits of cold water washing and proper storage of all cleaning products. Moreover, ACI publishes tips, tricks and expert advice on its [Cleaning Is Caring blog](#) to enable families with young children to lead cleaner, happier and better lives.



PARTNERING FOR DISASTER RESILIENCY

ACI's strategic partnership with the national nonprofit [Good360](#) is aimed at enhancing ACI members' disaster relief efforts. Regular and broader philanthropic and community work is carried out to maximize the impact of charitable giving to people affected by disasters. The alliance also provides training, resources and tools to prepare for and respond to natural disasters, helping to reduce the risk of disasters and improving the ability to recover quickly should one strike.

ACI members have a history of generous donations through Good360. This partnership provides the opportunity to expand and extend this relationship and build new ones. By leveraging each other's strengths and experiences, we can enhance the effectiveness of the cleaning products industry to make it even more resilient and active in disaster recovery.



▷ Ducks for Good

DUCKS FOR GOOD

ACI holds an annual fundraiser for The [WASH Foundation](#), an evolution of the Clean the World Foundation, a social enterprise that distributes recycled soap and hygiene products to communities in distress around the world. The work of The WASH Foundation helps prevent millions of hygiene-related illnesses and deaths each year.

Each year, duck race enthusiasts flock to the Lazy River at Grande Lakes in Florida for the [Charity Duck Race](#), sponsored by Shell Chemical LP. Decorated ducks "swim" down the Lazy River toward the finish line. Through this event, our members donated \$32,500 to the Clean the World Foundation in 2023 and \$40,575 to The WASH Foundation in 2024.



#OURFUTUREISCLEAN SOCIAL MEDIA CHALLENGE

In 2022, ACI launched our first social media challenge, [#OurFutureIsClean](#). To participate, member companies and their staff posted on social media with the hashtag [#OurFutureIsClean](#), sharing images or videos of the actions they are taking — from large initiatives to individual commitments — to be more sustainable.

In 2022, ACI reached over 466,000 impressions. In 2023, ACI relaunched the [#OurFutureIsClean](#) challenge during Climate Week, reaching over 1.5 million impressions. As a result, ACI has donated \$40,000 to [Dig Deep](#), a human rights nonprofit working to ensure universal access to reliable and safe water and wastewater services within the U.S.

FILL IT FORWARD

During ACI's 2024 meetings, we partnered with [Fill it Forward](#), a non-profit that makes water bottle reuse charitable. Participants tracked their water bottle refills, with each use contributing to the collective goal of 3,000 refills. Through this initiative, ACI contributed \$6,000 to Dig Deep. The use of refillable bottles resulted in nearly 3,000lbs of emissions avoided and over 90lbs of plastic waste avoided.



ENVIRONMENTAL JUSTICE

Environmental Justice centers on the right of all people, regardless of race, ethnicity and socioeconomic status, to have a clean, healthy environment and promotes fair distribution of environmental burdens and benefits. ACI strives to support collective action within the cleaning products industry beyond innovation to building dynamic and meaningful relationships with our communities. As a trade association, we recognize our responsibility to advocate for equitable policies and practices, understand disparities and how to address them, collaborate with stakeholders, promote equity and implement initiatives to mitigate negative environmental, social and human health impacts.

To enable us to perform these roles, one of our most important tasks is awareness building. In 2024, we launched our Action Plan for Environmental Justice, which encourages our collective learning and improvement through the following key tenants:

- Education;
- Outreach and partnerships; and
- Reporting on our progress.

In these ways, we strive to continuously improve and be responsible members of our communities.

7

of our member companies have Environmental Justice initiatives.

Members: The Clorox Company; Dow Inc.; Ecolab Inc.; Givaudan Fragrances Corporation; Niacet, A Kerry Company; Sasol; Seventh Generation, Inc.



CELEBRATING DIVERSITY

ACI celebrates diversity, underscoring the importance of recognizing and respecting individuals from all backgrounds. This includes those of any gender, race, ethnicity, national origin, age, sexual orientation, identity, education or disability. Our commitment to diversity, equity and inclusion (DEI) goes beyond fairness; it's about fostering a culture that actively seeks out and appreciates different viewpoints, leading to greater innovation and growth.

By nurturing impactful relationships and accelerating growth and innovation across the cleaning products industry, we can create a stronger, more resilient community. We encourage all members of our community to continue building connections, learning from one another and celebrating the strength that diversity brings to our industry.

These benefits underscore the importance of diversity in creating a dynamic, innovative and inclusive cleaning products industry that effectively meets the needs of its diverse stakeholders. We aim to be active in encouraging our members to keep building connections, learning from each other, and celebrating the strength that diversity brings to our industry.

AFFINITY GROUP RECEPTION

To carry forward our commitment to diversity, we launched our first ever Affinity Group Reception at the 2024 ACI Annual Meeting and Convention. Our aim was to celebrate the diversity of those working in the cleaning products industry. The reception invited members of the LGBT+ and Black, Indigenous, and People of Color (BIPOC) communities, their allies and Women in Industry to mingle and celebrate the rich tapestry of backgrounds, perspectives and experiences that exist in our community. ACI was pleased to provide a space where individuals from all walks of life came together to build industry connections and learn from one another.





INCREASE TRANSPARENCY

Informing Transparent Decisions

Understanding Essential Ingredients

Safer Choice

Assessing Sustainability Management

Our Goal: Increase transparency to provide people with the information they need to make informed decisions.

Informing Transparent Decisions

▶ Read more on Page 15





INCREASING ACCOUNTABILITY IN THE VALUE CHAIN

Holding a unique position within its value chain, Inolex connects the value of sustainable sourcing from upstream suppliers with specific demands of downstream clients.

As the center point, Inolex's ability to influence its suppliers results in shared value for its customers and consumers.

In 2022, Inolex began ramping up efforts to responsibly manage its supply chain. Standing up an interdisciplinary supply chain team to spearhead the initiative, Inolex revamped its supplier questionnaire to collect key information on raw materials and supplier sustainability efforts.

Additionally, Inolex established a set of criteria for screening supplier responses to the questionnaire and disqualifying suppliers that do not meet their sustainability standards. Inolex then conducted an internal audit of its existing suppliers against these standards to ensure the integrity of its current partners and, along with its newly enhanced Supplier Code of Conduct, began sharing the questionnaire with new suppliers.

Inolex leverages the data collected to offer detailed product dossiers to its customers that exceed those of many of its peers and offers valuable information related to raw materials, feedstock, country of origin, regulatory standards and safety. As an ACI member, Inolex also leverages a broader network to engage and inspire across the industry. By increasing transparency in its sustainability journey, Inolex is giving back to its customers and consumers the power to make more informed decisions when purchasing cleaning products.

Inolex

INFORMING TRANSPARENT DECISIONS

Cleaning products are essential to our daily lives. By removing dirt, germs and other contaminants, they help us to care for our homes and possessions and promote good health and hygiene, which allow us to thrive. To help consumers make informed decisions, cleaning product companies have the responsibility to communicate both the benefits and potential risks of cleaning products.

Providing details on ingredients, including their functions and potential risks, is key to supporting consumer decision-making. Our transparent disclosure of detailed information helps build trust between our member companies and consumers. We are dedicated to supporting our members by providing them with resources and tools for communicating critical information.



CLEANING CHEMISTRY CATALOG™

In 2023, ACI launched a redesigned database for the Cleaning Chemistry Catalog™ (C3™), a resource that provides information related to the safety of ingredients used in household cleaning products. C3™ streamlines ACI's legacy Cleaning Product Ingredient Safety Initiative and Cleaning Product Ingredient Environmental Safety Initiative by giving them a new name, look and feel; increased functionality and search capabilities; and human and environmental health data in one location.

C3™ illustrates how safety assessment data from publicly available sources can be incorporated into a screening risk assessment for household cleaning product ingredients. The database now provides human and environmental health risk assessments for more than 1,100 ingredients. The information enhances the understanding of regulators, academics, manufacturers and consumers of the role of ingredients in making cleaning products safe, beneficial and effective.



UNDERSTANDING ESSENTIAL INGREDIENTS

INGREDIENT COMMUNICATION TOOL

To address the gap between required ingredient disclosure and the right of consumers to understand and make informed decisions, ACI offers a [What Cleaning Ingredients Do](#) searchable database of 800+ chemical ingredients commonly found in household cleaners. The platform empowers consumers to feel more confident about the products they have chosen to use in their homes.

ACI launched the tool, developed by ACI's Future Leaders, in 2022 for member companies. Leveraging consumer-tested ingredient terms and functions, the tool provides an opportunity for standardized industry language, applicable across brand and product websites, educational resources and packaging. This information has also been integrated into ACI's C3 database.



21

member companies participate in the chemical industry's [Together for Sustainability](#) program.

Members: Arkema Inc.; Azelis H&IC US; BASF Corporation; Brenntag North America; Clariant Corporation; Croda; Dow Inc.; dsm-firmenich; Eastman Chemical Company; Evonik Corporation; Givaudan Fragrances Corporation; Henkel Corporation; IFF; Indorama; LANXESS; Nouryon; Oleon Americas Inc.; Syensqo; Symrise; Univar Solutions; Wacker Chemical Corporation.

SMARTLABEL

With the range of information available on product labels, it can be difficult for consumers to identify and comprehend ingredients to be able to make informed choices. The Consumer Brands Association is helping to address this difficulty with [SmartLabel®](#). This mobile app that works with any smart device makes it easier for consumers to uniformly and consistently access detailed information on thousands of products across brands — much more information than can fit on package labels — by simply scanning the QR code on an item. The SmartLabel website also provides product information and helpful resources regarding the initiative.

Currently, 35 percent of ACI household product formulators use SmartLabel, including The Clorox Company, Colgate-Palmolive Company, Henkel Corporation, Procter & Gamble, Reckitt, SC Johnson, Seventh Generation, Inc. and Unilever.



Contribute positively



Increase transparency



Value nature



Reduce emissions

SAFER CHOICE

SAFER CHOICE PARTNER OF THE YEAR

In 2022, 2023 and 2024, the EPA again named ACI as a Safer Choice Partner of the Year. ACI was recognized as an outstanding Safer Choice Supporter and continued to amplify Safer Choice's messaging through communication materials and events.

EPA's Safer Choice program helps consumers and purchasers for facilities, such as schools and office buildings, select products with chemicals that are safer for human health and the environment. We have supported the program for more than a decade through ongoing work with the EPA, including advocating for science-based principles for ingredient and product criteria.

In 2021, ACI-hosted events that included information on Safer Choice reached over 1,100 viewers and registrants. Throughout 2021, ACI amplified Safer Choice messaging across social media, which was seen by more than 4,000 people. ACI also secured 25 articles that featured Safer Choice, reaching close to 1.4 million individuals. Moreover, we developed a cleaning product certification guide that features the Safer Choice label and explains what the certification means. ACI promoted the certification guide, for which we earned the 2022 award, in two newsletters.

In 2022, ACI hosted multiple events that shared information on Safer Choice and reached over 700 viewers and registrants. Throughout 2022, ACI featured Safer Choice messaging across social media and in our member and public industry newsletters. ACI also secured 121 articles featuring Safer Choice, reaching up to 6 million people. ACI's 1.5°C challenge, for which we earned the 2023 award, supports the EPA's goal of addressing climate change.

In 2023, ACI hosted an EPA Day during our 2023 Mid-Year Meeting, bringing the industry face-to-face with EPA officials to discuss priorities and learn about the Safer Choice label. ACI also brought EPA Safer Choice and the U.S. Centers for Disease Control and Prevention (CDC) together via its Healthy Schools, Healthy People initiative, which promoted the Safer Choice and Design for the Environment labels.



CELEBRATING OUR MEMBERS

The following ACI members have also achieved Safer Choice Partner of the Year status:

2022



2023



ADVANCING SUSTAINABLE CLEANING SOLUTIONS

Consumers and commercial buyers are increasingly seeking cleaning products that not only deliver effective performance but also prioritize safety and sustainability. At Locus Ingredients, sustainability is synonymous with the company's 'Better with Biology' ethos. Locus Ingredients is leading the way in advancing sustainable cleaning solutions through its innovative sophorolipids biosurfactant technology.

At the forefront of Locus Ingredients' sustainability efforts is its CleanGredients-listed biosurfactant, Amphi M. This 100 percent biobased, Toxic Substance Control Act (TSCA)-certified ingredient is highly effective in cleaning formulations, approved for direct release, and meets Safer Choice criteria — providing consumers with peace of mind while achieving superior cleaning results. In December 2022, Locus Ingredients expanded its Amphi® line of biosurfactants to include Amphi® CL and Amphi® CH. The new ingredients provide customizable biosurfactant solutions for broader use in industrial product applications, including institutional and industrial cleaning; metalworking fluids; coatings, adhesives, sealants and elastomers; agricultural adjuvants and more. The new biosurfactants are on track to receive TSCA certification in 2024 and will be listed on CleanGredients, also with direct release. With this expansion, Locus Ingredients will offer a comprehensive line of three blendable, customizable biosurfactant ingredients that will provide formulators with even more options to create Safer Choice-labeled cleaning products.

Through these innovations, Locus Ingredients upholds ACI's sustainability goals by providing effective cleaning solutions that prioritize safety, transparency and environmental responsibility. For example, CleanGredients-listed biosurfactants — which allow for shifting from petroleum-based ingredients to renewable sources — contribute to a more circular global economy. In addition, biosurfactants typically have a lower carbon footprint than petrochemical-based surfactants, and Safer Choice-labeled cleaning products empower consumers to make informed decisions about the cleaning products they choose. Through sophorolipids biosurfactant technology, Locus Ingredients is empowering manufacturers to create safer, more sustainable cleaning products while contributing to a cleaner and greener future for all.



2 In 2024, Novozymes combined with Chr. Hansen to become Novonesis.



ASSESSING SUSTAINABILITY MANAGEMENT



EcoVadis supports companies to manage sustainability-related risks and compliance requirements, meet their corporate sustainability goals and drive impact within their own business and across their entire value chain.

By submitting the Ecovadis questionnaire, our member companies share information regarding their sustainability management systems and receive results regarding their current performance. As of January 2024, platinum status is awarded to the top 1 percent, gold to the top 5 percent and silver to the top 15 percent across all companies in all industries submitting to EcoVadis.

The following ACI members achieved these top recognitions:

★★★★ PLATINUM

- AB Enzymes, Inc.
- CEPESA Quimica, S.A.
- Cosun Biobased Experts
- Croda
- DSM-Firmenich
- Evonik Corporation
- Henkel Corporation
- IFF
- Indorama
- LANXESS
- Nouryon
- Novo Nordisk Pharmatech
- Novonesis
- Robertet Inc.
- Swan Chemical Inc.
- MANE USA
- Wacker Chemical Corporation
- WE Soda Ltd

★★ GOLD

- 2M Holdings Ltd
- Advancion
- Arkema Inc.
- Ashland Specialty Ingredients
- Azelis H&IC US
- Barentz North America, LLC
- BYK USA Inc.
- Catexel Nease LLC
- Corbion
- Cremer North America
- Ecolab Inc.
- Eternis
- Galaxy Surfactants Ltd.
- Givaudan Fragrances Corporation
- Holiferm
- ICOF America Inc.
- Innospec Inc.
- IOI Oleochemicals
- Kao Specialties Americas LLC
- Kensing LLC
- KLK Oleo Americas Inc.
- Milliken & Co.
- Oleon Americas Inc.
- Presperse Corporation
- SC Johnson
- Sisecam
- Stepan Company
- Takasago International Corporation
- Unger Fabrikker AS
- Univar Solutions

★ SILVER

- Acme-Hardesty Co.
- Central Indiana Ethanol
- Ecogreen Oleochemicals, Inc.
- Ecopol America, Inc.
- Eco-Specialty Alcohols
- GOJO Industries, Inc.
- Hallstar
- Helm U.S. Corporation
- Ingevity
- Integrity-Biochem
- Jungbunzlauer Inc.
- Lubrizol Advanced Materials
- Mays Chemical Co. Inc.
- Pilot Chemical Company
- Rierden Chemical and Trading
- Sekisui Specialty Chemicals America, LLC
- Southern Chemical & Textiles
- Symrise
- Twin Rivers Technologies, L.P.





VALUE NATURE

Packaging Circularity

Eliminating Waste

Advancing Water Stewardship

Product Compaction and Concentration

Our Goal: Value nature by working to eliminate waste and advancing water stewardship.

Packaging Circularity
▶ Read more on Page 20



Contribute positively



Increase transparency



Value nature



Reduce emissions

PACKAGING CIRCULARITY

CIRCULAR PACKAGING ROADMAP

As an industry, we are committed to improving packaging by ensuring that it is recyclable or reusable, reducing virgin material use and increasing post-consumer recycled (PCR) or renewably sourced content. In addition, we know we have a role to play in helping evolve our systems of recovery. Our Circular Packaging Roadmap supports this transition by outlining our ambition and associated goals.

Our ambition is for all cleaning product packaging to be circular³.

³ See roadmap on page 21



21

of our members have aligned with or achieved the goal of all-circular product packaging.

Achieving our ambition for all cleaning product packaging to be circular will require creativity, innovation and collaboration within and beyond the cleaning products industry.

One of the ways we are supporting our members on this journey is through the development of an Material Circularity Indicator (MCI) tool. Developed by the Ellen MacArthur Foundation, the tool supports companies to identify additional, circular value for products and materials and mitigate risks from material price volatility and supply. The tool allows companies to measure the circularity of material flows for products, which supports decision-making on product

Members: Church & Dwight Co., Inc.; The Clorox Company; Colgate-Palmolive Company; Dow Inc.; dsm-firmenich; Ecolab Inc.; Galaxy Surfactants Ltd.; Givaudan Fragrances Corporation; GOJO Industries, Inc.; Henkel Corporation; Kao Specialties Americas LLC; KDC/One Homecare; L'Oreal USA; Niacet, A Kerry Company; Novonesis; Plastipak Packaging, Inc.; Reckitt; SC Johnson; Seventh Generation, Inc.; Unilever; Wilmar International Ltd.

design and materials procurement that considers circularity along with economic, environmental and societal objectives.

The desktop MCI tool is available to ACI member companies that want to understand how changing packaging parameters, such as increasing the recycled and reusability content, will affect the circularity of their product packaging.

We continue developing resources to support our members with the design of their products and engage and support those driving change toward adoption of our waste recovery systems across the U.S.



Contribute positively



Increase transparency



Value nature



Reduce emissions

Our Circular Packaging Roadmap Goals

Design cleaning product packaging for reuse or recycling, improving our Materials Circularity Index score 25% by 2025.⁴

- Reduce the use of virgin material per dose in all cleaning product packaging by increasing PCR content, enhancing concentration and/or using less packaging.
- Design 100% of cleaning product packaging to be recyclable⁵ or reusable⁶.

Embrace technologies to improve our Materials Circularity Index score an additional 25% by 2030.⁷

- Further reduce the use of virgin material per dose by increasing PCR content, enhancing concentration and/or using less packaging.
- Utilize reusable containers or other new packaging technologies and approaches.

Working with external stakeholders, evolve systems of recovery to eliminate all cleaning product packaging waste by 2040.

- Achieve a 75% recycling rate for cleaning product packaging waste by 2030.
- Achieve 100% collection and reuse, recycling or composting of cleaning product packaging waste by 2040.

⁴ Baseline year: 2020.

⁵ Packaging is recyclable if it can be collected, sorted, reprocessed and ultimately reused in manufacturing or in making another item (Sustainable Packaging Coalition).

⁶ Packaging is reusable if it proves its ability to accomplish a minimum number of trips or rotations in a system for reuse (ISO 18603).

⁷ Baseline year: 2020.





HAND HYGIENE SOLUTIONS DELIVER SUSTAINABLE VALUE FOR PEOPLE AND THE PLANET

GOJO's purpose, *Saving Lives and Making Life Better Through Well-Being Solutions*, drives everything the company does – from thinking holistically about how it delivers sustainable value for people and the planet through a commitment to creating social, environmental and economic value. As a problem-solver, GOJO thrives on understanding important human problems, bringing innovative well-being solutions to customers that meet their needs and providing safe and effective well-being solutions for customers' patrons, patients and employees.

It is this passion for learning that drove the development of GOJO's newest dispensing system. In December 2023, GOJO launched the PURELL® ES10 Hand Sanitizer Dispenser, its most sustainable touch-free dispensing system to date. The ES10 uses 30 percent less plastic per refill as compared to prior models, offers a 38 percent reduction in GHG emissions due to the reduction of plastic in the design, and uses hand sanitizer and hand soap formulations specifically designed or selected because of their sustainability profiles, all of which are third-party environmentally certified. GOJO also factored in end-of-life to the design of the ES10. The new model reduces the number of steps to recycle the dispenser refills by including widely accepted plastics at recycling centers — and an AA battery in each refill that can also be easily recycled or responsibly disposed of according to local guidance. GOJO educates its customers on the end-of-life process, engaging with them through communications materials and group meetings, as well as throughout the installation process.

The complimentary PURELL DISPENSER ADVISOR™ app comes with every ES10 device and offers a data-driven approach to help customers manage the dispenser fleet. The app allows customers to gain usage information and optimize the product by analyzing the information to determine when a refill is needed — therefore preventing the recycling of refills with product remaining. GOJO's approach to lifecycle thinking, with special attention to end-of-life, demonstrates ACI's goal of Value Nature in practice, helping the cleaning products industry to move toward a more circular global economy.



PACKAGING REIMAGINED

Companies aiming to increase the sustainability of their products are considering their full value chain to make the transition. For example, member companies are sourcing renewable materials and materials that are Forest Stewardship Council (FSC)-approved. Over 40 percent of member companies formulating products for consumers now have a defined commitment to reach 100 percent recyclable, reusable or compostable packaging. In addition, over 30 percent of members formulating products have pledged to increase the use of recycled materials in their packaging.

10

of our members have joined the [Alliance to End Plastic Waste](#).



Members: BASF Corporation; Clariant Corporation; Dow Inc.; ExxonMobil Product Solutions; Henkel Corporation; Milliken & Company; Novonesis; Procter & Gamble; Sasol; Shell Chemical LP.

American Cleaning Institute

11

of our members are teaming up with [Loop](#) to reimagine packaging and help drive the circular economy.



Members: AeroFlexx; Church & Dwight Co., Inc; Colgate-Palmolive Company; dsm-firmenich; Ecolab Inc.; Henkel Corporation; L'Oreal USA; Procter & Gamble; Reckitt; Seventh Generation, Inc.; Unilever.



Contribute positively



Increase transparency



Value nature



Reduce emissions

ELIMINATING WASTE

DESIGN GUIDE FOR RECYCLABLE PACKAGING

In line with our industry commitment of 100 percent recyclable⁸ or reusable⁹ cleaning product packaging by 2025¹⁰, we created the *Design Guide for Recyclable Packaging*. This document is an ACI members-only resource that provides a thorough review of challenges and opportunities for improvement in the design of cleaning product packaging in the U.S. and aims to help ACI members innovate solutions to move the marketplace toward a more circular economy.

TRANSITIONING THE WASTE SYSTEM

As the industry moves to circular packaging, the capacity of waste systems must increase to manage the growth effectively.

The American Institute for Packaging and the Environment (AMERIPEN) represents the U.S. packaging value chain by providing public policymakers with fact-based, material-neutral scientific information. As a member of AMERIPEN, alongside several of our own member companies, we support its mission of using science to inspire, create and advocate for sustainable solutions for the packaging value chain.



- 8 Packaging is recyclable if it can be collected, sorted, reprocessed and ultimately reused in manufacturing or making another item (Sustainable Packaging Coalition).
- 9 Packaging is reusable if it proves its ability to accomplish a minimum number of trips or rotations in a system for reuse (ISO 18603).
- 10 At this point, compostable packaging is not a path ACI recommends for cleaning product packaging.
- 11 The New Plastics Economy initiative has transitioned to the Ellen MacArthur Foundation's website and can be found here:
<https://www.ellenmacarthurfoundation.org/topics/plastics/overview>

24

members have a zero waste to landfill goal.

10

of our member companies are part of the New Plastics Economy¹¹.

15

of our members have joined How2Recycle labeling to simplify the consumer experience.



Members: The Clorox Company; Colgate-Palmolive Company; Corbion; Croda; dsm-firmenich; Encapsys, LLC; Eternis; Galaxy Surfactants Ltd.; Givaudan Fragrances Corporation; GOJO Industries, Inc.; Henkel Corporation; IFF; Ingredion Inc.; Kao Specialties Americas LLC; L'Oreal USA; Milliken & Company; Niacet, A Kerry Company; Novonesis; Plastipak Packaging, Inc.; Reckitt; SC Johnson; Show Me Ethanol; Unilever; V. MANE FILS.

Members: BASF Corporation; Colgate-Palmolive Company; Eastman Chemical Company; Henkel Corporation; Indorama; L'Oreal USA; Reckitt; SC Johnson; Unilever; Veolia NA Regeneration Services.

Members: Bona Kemi; Church & Dwight Co., Inc.; Colgate-Palmolive Company; Dow Inc.; Eastman Chemical Company; ExxonMobil Product Solutions; GOJO Industries, Inc.; Henkel Corporation; Mitsui & Co. (U.S.A.), Inc.; Novonesis; Procter & Gamble; Reckitt; SC Johnson; Seventh Generation, Inc.; Unilever.



Contribute positively



Increase transparency



Value nature



Reduce emissions



INNOVATION AND COLLABORATION TO DELIVER ON ZERO WASTE TO LANDFILL

A key part of advancing the cleaning products industry toward a cleaner, safer world is optimizing the use of natural resources and eliminating waste. By applying science and creativity, IFF is advancing sustainability in the industry to achieve the company's goal of zero waste to landfill for all its major manufacturing facilities. The initiative has sparked innovative solutions and greater collaboration across manufacturing sites, as well as strengthened relationships with local communities. For example, facilities are reusing waste from other facilities in their manufacturing processes, and local communities have used manufacturing byproducts in farming.

IFF's zero waste to landfill initiative has been a journey that started with mapping waste streams for a single facility. Recognizing that there is no one size fits all approach, IFF has embraced customized and specific solutions across its major manufacturing sites, including upcycling of solid waste and sugar waste, anaerobic digestion of biomass, scrap oil reformulation and plastic package recycling. IFF's targeted approach has supported facilities to achieve zero waste to landfill where possible, while others are achieving maximum diversion of waste as a stepping stone to being better environmental stewards on their path to achieving zero waste. As of the end of 2023, 51 percent of IFF's major manufacturing sites had received certification as zero waste to landfill sites through a five-year process.

IFF's manufacturing sites demonstrate that reaching its goal is achievable with ingenuity and context-specific approaches. By valuing nature and considering local contexts and ecosystems, the cleaning products industry can continue the journey toward a more sustainable future. ACI provides a platform for members to share these efforts, supporting knowledge sharing and advocacy across the cleaning products industry.



THE QUESTION OF EDUCATION

ACI aims to educate our members and other key stakeholders to enable them to make informed decisions that contribute to a healthier planet. We host a web page and guide devoted to helping customers navigate recycling cleaning product packaging. The guide is aimed at increasing the volume and quality of containers recycled to overcome barriers to reducing waste.



Contribute positively



Increase transparency



Value nature



Reduce emissions

ADVANCING WATER STEWARDSHIP

Modern innovations have enabled vast improvements in average daily household water use, largely due to efficiency in appliances. Even with these improvements, it is important to minimize water use. ACI provides water-saving tips related to household cleaning on our website to empower individuals to increase their daily water efficiency.



SCRAPE, DON'T RINSE

In 2022, ACI partnered with the Association of Home Appliance Manufacturers to ask consumers to scrape their dishes instead of rinsing them before putting them into the dishwasher. This simple step allows the dishwasher detergents and appliances to still effectively clean dishes while saving water and energy.

iSTREEM®

Our online modeling tool, [iSTREEM](#), is a free, publicly available, web-based geographic information system that estimates the concentration of chemicals going down the drain and the subsequent residual levels that enter aquatic environments.

The model is continually updated for companies, academics, governments and other entities interested in understanding the potential impacts of chemical releases to aquatic environments in the U.S., parts of Canada, and now China, Japan and Europe, through the technical support and partnership of Procter & Gamble and Waterborne Environmental, Inc. The model has various uses, including:

- Predicting the potential environmental impacts of a new chemical before it hits the market;
- Understanding the current environmental load and thresholds that may have undesired impacts;
- Confirming the likelihood of a chemical biodegrading with limited impact on the surrounding environment; and
- Identifying areas of greatest concern, where monitoring studies or mitigation may be necessary.

In 2022 and 2023, ACI engaged closely with the EPA, the Society of Environmental Toxicology and Chemistry and other scientific groups on the iSTREEM model capabilities, applications and potential use cases in the cleaning products industry and beyond.

iSTREEM



Contribute positively



Increase transparency



Value nature



Reduce emissions

PRODUCT COMPACTION AND CONCENTRATION

As we strive to advance cleaning innovation, product compaction and concentration efforts have gained momentum across the industry.

Concentrates provide an opportunity to further integrate ACI's valuing nature goal into product research and development.

Concentrates offer a number of benefits for the environment over traditional cleaning products. By producing cleaning products that contain powerful ingredients but with less water, manufacturers reduce the amount of packaging required for each item. Smaller and lighter items also translate to fewer resources needed to transport the products to customers and consumers, reducing fuel consumption and GHG emissions.

FUTURE LEADERS

We are proud to host ACI's Future Leaders, a work group for emerging leaders from a cross-section of cleaning product manufacturers and chemical producers. The group brings together these representatives to exchange ideas and identify high-priority initiatives to drive change in the industry.

ACI's engagement with these leaders helps us to remain apprised of the future of the industry and of key topics important to rising generations. Simultaneously, the Future Leaders Board helps expand the reach of the Future Leaders work group by engaging young professionals across the industry through professional development and other opportunities in ACI's member companies.

In 2023, ACI's Future Leaders explored the consumer perspective of sustainability-positioned concentrate and refill cleaning products through a three-phase engagement exercise with a diverse sample of actual and potential consumers. The three phases included the writing of a consumer daily diary to understand the day-to-day cleaning experience of each consumer; in-depth interviews with a mix of consumers and an exercise with a select segment of consumers and ACI member companies to come up with ideas for eco-friendly cleaning products.

The results of the exercise are available to ACI members to increase knowledge around and provide insights into consumers' relationship with sustainability in cleaning products, thus contributing to the success of sustainable initiatives and products in the market.



CLEANING PRODUCT CONCENTRATION WITHOUT COMPROMISING CLEAN

Church & Dwight has a longstanding commitment to the environment and people. Since introducing Arm & Hammer Baking Soda to customers in 1846, the company has continued to deliver a powerful brand at an accessible price point. Since its founding, Church & Dwight has incorporated innovations to make a positive social and environmental impact, offering a better experience for consumers that does not compromise on cleaning.

The company's multi-year, two-wave, and cross-functional approach to laundry product concentration and compaction efforts are a prime example of Church & Dwight's sustainable innovation strategy. In 2022 and again in 2023, Church & Dwight reduced water and package usage for its Arm & Hammer and XTRA liquid laundry detergent brands covering more than 100 SKUs. The concentrated detergent provides three times the stain fighting power when compared to the leading bargain detergent while reducing the amount of water and plastic used per load. In 2023, these efforts culminated in a reduction of plastic usage by approximately 3.6 million pounds, corrugate usage by approximately 5 million pounds, and water usage by approximately 79,000 tons. The smaller, lighter product also resulted in an estimated reduction of 5,700 metric tons of CO₂e emissions in transportation.

Church & Dwight continues to identify opportunities for new products and packaging formulated to minimize water and energy requirements. For example, the company is building on its compaction experience to extend concentration efforts to Odor Blasters™. In 2023, Church & Dwight was the first major laundry detergent brand to launch a detergent sheet, which uses an ultra-concentrated format that comes in recyclable paper packaging — eliminating the need for plastic packaging for laundry detergent. Church & Dwight calls upon ACI's expertise and that of member companies to help manage through the challenges of innovation to achieve more sustainable outcomes.





COMMITMENT IN ACTION

At The Clorox Company, driving forward business while striving for sustainability is engrained in the way the company operates and the culture it creates. This approach earned Clorox the top ranking on Barron's Most Sustainable U.S. Companies list in 2024, Clorox's second consecutive year in the top spot. ACI's goal to value nature is exemplified by member companies like Clorox, which in turn leverages the ACI member company network to expand its impact on the cleaning products industry to build new tools and approaches together.

The compaction of Pine-Sol® is an example of Clorox's commitment to not only improve products but also minimize waste. Clorox undertook a process to engage across its cleaning product value chain to ensure that any innovation with environmental sustainability attributes also created an exceptional consumer experience. As a result, Clorox reformulated the Pine-Sol line into a concentrated formula that provides two times the cleaning power in each drop. The more powerful formula in a smaller bottle also means both the amount of water shipped and the amount of plastic used per drop of cleaning product has been reduced.

Clorox took steps as part of the introduction of the new formula to educate Pine-Sol's dedicated consumer base of the new value proposition. The in-store displays ensure that the product is still recognizable, while the packaging and shelf-design are clearly labeled to indicate that the formula has two times the cleaning power versus previous Pine-Sol. As part of its ongoing sustainability journey, Clorox aims to build momentum with support from ACI for the broader adoption of compacted cleaning formulas across the cleaning products industry.



OFFERING SAFE AND SUSTAINABLE OPTIONS

A member of ACI, MonoSol, a Kuraray Company, is part of a community of industry leaders that take a science-based and fact-based approach to reducing emissions and decreasing the environmental impact of cleaning products. MonoSol leverages the expertise of its team of chemists, engineers and innovators to create safer, simpler, and more sustainable solutions using water-soluble technology. Water-soluble polyvinyl alcohol (PVA/PVOH) films encapsulate laundry detergents and dishwasher capsules, which deliver a concentrated, ready-to-use product. By decreasing the amount of water, plastic and weight that needs to be shipped when compared to traditional liquid and powder detergents, PVOH films enable reductions in GHG emissions and waste.

MonoSol continues to innovate its portfolio of products. The company is expanding its natural polymer program to extend its portfolio to a broader application, replacing a 25 percent bio-based solution with a 50 percent bio-based solution for its PVA/PVOH. MonoSol is also in the early stages of developing a 100 percent plant-based material for its films. By offering plant-based alternatives, MonoSol is enhancing the sustainability of its films which are already allowing for the delivery of concentrated cleaning power to the consumer. Throughout the innovation process, MonoSol ensures that its films deliver improved sustainability without sacrificing performance. MonoSol continues to find opportunities to reduce its manufacturing footprint while making safe and simple cleaning products for consumers and tapping into ACI's network to exchange knowledge and share new product offerings across the cleaning product supply chain.



Contribute positively



Increase transparency



Value nature



Reduce emissions

REDUCE EMISSIONS

Aligning with Global Leaders: IPCC

Our Roadmap to Net Zero

Sustainable Feedstocks

Our Goal: Reduce GHG emissions across the cleaning products value chain as part of our industry's collective efforts to confront climate change.

Our Roadmap to Net Zero
▶ [Read more on Page 30](#)



Contribute positively



Increase transparency



Value nature



Reduce emissions

ALIGNING WITH GLOBAL LEADERS: IPCC

THE INTERNATIONAL PANEL ON CLIMATE CHANGE

The Intergovernmental Panel on Climate Change (IPCC) is the UN body for assessing the science related to climate change. The IPCC provides policymakers with regular scientific assessments on climate change, its implications and potential future risks, as well as puts forward adaptation and mitigation options.

ALIGNING OUR WORK ON CLIMATE STRATEGY

ACI recognizes that achieving a vibrant and sustainable future means aligning our climate strategy with internationally recognized science-based approaches. As such, reducing GHG emissions in accordance with scientific consensus as determined by the IPCC guides our emissions reduction approach. Through this approach, we aim to extend our reach in helping people lead healthier lives and enriching communities.

As part of our commitment, ACI has set a goal to account for and reduce GHG emissions across the cleaning products industry value chain, including consumer use. To support this position, we have challenged all our member companies to set carbon reduction strategies in alignment with the 1.5°C trajectory of global net-zero carbon emissions by 2050.



PARTNERING FOR IMPACT

Eastman works to solve the world's challenges around climate change, plastic waste and a growing population by making sustainable, innovative materials that are better for both people and the planet. As a materials supplier, Eastman takes a collaborative approach across the value chain to achieve progress toward its sustainability goals. Membership in ACI facilitates key partnerships with suppliers, customers and the broader industry while also providing insights into consumer demands.

With an aim to reduce the carbon footprint of products, Eastman is partnering with raw material providers to produce more sustainable alternatives for surfactants that are used widely in cleaning and personal care products. Eastman has identified alternative sourcing, including renewable raw materials and energy inputs, that have resulted in new grades of dimethylaminopropylamine (DMAPAs), among other products. With a lower carbon footprint, these have provided customers with a drop-in replacement with sustainability benefits at a competitive price. Eastman has also undertaken more intensive life-cycle assessments to identify new solutions that consider the full value chain, responding to customer demand for increased awareness of the types of ingredients used to make cleaning products.

Eastman's approach to mitigating climate change is one part of its overall strategy to meet the world's material needs in a more sustainable way. Eastman continues to work with ACI's member companies to innovate more sustainable approaches to cleaning products, including the identification of milder and less hazardous chemicals for cleaning, reduction in water use and support for efficacy of cleaning products in cold temperature washing. Through supply chain collaboration, Eastman is advancing sustainability across the cleaning products industry that will support forward progress toward ACI's goals.

EASTMAN



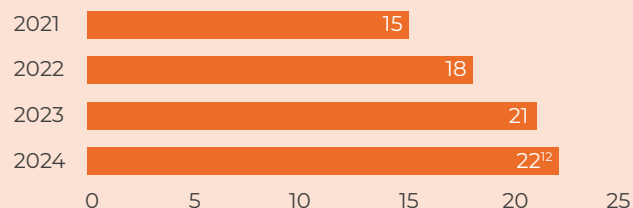
OUR ROADMAP TO NET ZERO

THE 1.5°C CHALLENGE

The 1.5°C Challenge supports our Roadmap to Net Zero and drives the industry forward toward our climate goals. By challenging our members to reduce their global emissions to net zero by 2050, we are enabling them to align their corporate climate strategy and targets with the science-based 1.5°C goal and to influence other companies in the cleaning products industry and the supporting supply chain to do the same.

When ACI launched this initiative in May 2021, 15 ACI members committed to ACI's 1.5°C Challenge, making bold, science-based commitments. This number has now expanded to 22, with Arxada, LANXESS Corporation, Milliken and Wacker making science-based commitments since the 2022 report.

NUMBER OF ACI MEMBERS THAT HAVE COMMITTED TO THE 1.5°C CHALLENGE



Members: Arxada; BASF Corporation; The Clorox Company; Colgate-Palmolive Company; Croda; Dow Inc.; Ecolab Inc.; Evonik Corporation; dsm-firmenich; Henkel Corporation; IFF; Lanxess Corporation; Milliken & Company, MonoSol, a Kuraray Company; Novonesis; Reckitt; Sasol; Seventh Generation, Inc.; Shell Chemical LP; Twin Rivers Technologies, L.P.; Univar Solutions; Wacker Chemical Corporation.

¹² As of June 30, 2024.

62

members have committed to be net zero by 2050 or earlier.

76

ACI members have 2030 GHG reduction targets.

Members: ADM; Aicello America Corporation; Apical Resources America, LLC; Arkema Inc.; Arxada; BASF Corporation; BODE Chemie GmbH; Bona Kemi; Brenntag North America; BYK USA; CEPSA Química, S.A.; Church & Dwight Co., Inc.; Clariant Corporation; The Clorox Company; Colgate-Palmolive Company; Corbion; Croda; Dow Inc.; dsm-firmenich; Eastman Chemical Company; Ecolab Inc.; Encapsys, LLC; Evonik Corporation; ExxonMobil Product Solutions; Galaxy Surfactants Ltd.; Givaudan Fragrances Corporation; GOJO Industries, Inc.; Henkel Corporation; IFF; Ingevity; IOI Oleochemicals; Jungbunzlauer Inc.; Kao Specialties Americas LLC; KLK Oleo Americas Inc.; LANXESS; L'Oreal USA; Milliken & Company; Niacet, A Kerry Company; Nouryon; Novo Nordisk Pharmatech; Novonesis; Penthol LLC; POET Pure Alcohol; Presperse Corporation; Procter & Gamble; Reckitt; Sasol; Sekisui Specialty Chemicals America, LLC; Seventh Generation, Inc.; Shell Chemical LP; Show Me Ethanol; Sisecam; SNF Holding Inc.; Syensqo; Symrise; Twin Rivers Technologies, L.P.; Unger Fabrikker AS; Unilever; Univar Solutions; V. MANE FILS; Wacker Chemical Corporation; Wilmar International Ltd.



Contribute positively



Increase transparency



Value nature



Reduce emissions

CARBON DISCLOSURE AND SCIENCE-BASED TARGETS (SBTS) OF ACI MEMBERS

55%

have a metric to reduce GHG emissions or reduce CO₂ emissions.

44%

have 2030 GHG reduction targets.

36%

have committed to net zero by 2050 or earlier.

10%

have a metric to include “Natural Climate Solutions” as part of their strategy.

37%

a have disclosed their carbon footprint through CDP.

24%

have made science-based targets through the Science Based Targets Initiative (SBTi) but may not have submitted them yet or they may be pending approval.

21%

have SBTi-approved targets.

OUR NET-ZERO GOALS

One of our ambitions is to achieve net-zero industry carbon emissions. Our Roadmap to Net Zero is our plan to accomplish this.

Goal	Targets
Reduce absolute GHG emissions within operations and product manufacturing.	<p>By 2023, 80% of cleaning product manufacturers¹³ will have set science-based GHG reduction targets, including scope 3 emissions, and reported progress.¹⁴</p> <p>By 2030, there will be measurable progress¹⁵ toward achievement of identified targets.</p>
Work with supply chain partners, reduce upstream GHG emissions and transition to low-carbon transportation.	<p>By 2025, 80% of our supply chain¹⁶ will have set science-based GHG reduction targets and reported progress.</p> <p>By 2030, there will be measurable progress toward achievement of identified targets.</p>
Enhance the climate resilience by restoring, conserving or creating natural climate solutions that store carbon and aid in sequestration.	<p>By 2025, all ACI companies will have achieved commitments for traceable and deforestation-free paper, soy, palm oil and palm oil derivatives.</p> <p>By 2040, residual industry emissions will be balanced with natural climate solutions.</p>
Through support of policy and collaborations with external stakeholders, minimizing emissions from cleaning product use.	<p>By 2035, we will have achieved a 100% renewable¹⁷/ clean U.S. electricity grid.</p>

13 As represented by ACI membership base of cleaning products manufacturers.
14 As of June 30, 2024, 41% of cleaning product manufacturers have published science-based GHG reduction targets, including scope 3, and have reported progress.
15 Progress consistent with global emissions reduction target of at least 50% by 2030.
16 As represented by ACI membership base of suppliers.
17 Energy from a source that is not depleted when used, such as wind or solar power.



Contribute positively



Increase transparency



Value nature



Reduce emissions

COLD WATER SAVES

Our members are striving to reduce GHG emissions throughout their supply chains. At ACI, we are supporting our members to spread the message about the benefits of washing in cold water. Through this initiative, ACI is striving to empower the consumer to change their behavior and contribute to a healthier planet.

Cold Water Saves is a joint initiative of ACI and The Sustainability Consortium (TSC) to promote the power of cold-water laundry washes. The [Cold Water Saves website](https://coldwatersaves.org/) is working to get the message to all consumers that washing with cold water is best. The site shares information on how washing in cold saves people money, saves clothes, and saves the planet.

Cold water is gentler on fabrics, helping to slow fading in colors, reduce shrinking and protect delicates, therefore increasing the longevity of clothes and saving people money. The cleaning products industry, including ACI members, have developed new detergents that clean just as effectively when used with cold water. ACI members are continually improving their technology so that we can be sure of an effective clean at reduced water temperatures.

In addition, about 90% of the energy used by washing machines is for heating water; washing in cold water saves this energy¹⁸. Also, most of the energy used in a detergent's life cycle is used during the wash. We know that changing consumer behavior to washing with cold water will make a huge difference in helping to reduce GHG emissions associated with laundry and in addressing our collective climate change impact.



¹⁸ <https://coldwatersaves.org/>

“As partners, The Sustainability Consortium and the American Cleaning Institute have a rich history of collaboration, notably with initiatives like *Cold Water Saves*. We are thrilled to continue this journey together, exploring new avenues for sustainability and innovation that benefit our planet and communities.”

Christy Slay, Chief Executive Officer,
The Sustainability Consortium



About 90%

of the energy used by washing machines is for heating water¹⁸.



Contribute positively



Increase transparency



Value nature



Reduce emissions



MAKING COLD WATER WASH THE EASY CHOICE

Procter & Gamble builds sustainability into its approach to innovation, delivering products that consumers love that are also better for the future of the planet. As a Procter & Gamble brand, Tide has innovated its laundry detergent to offer the clean that consumers expect using cold water. Washing in cold water instead of hot can reduce the amount of energy used on average by up to 90 percent for each wash cycle, which can mean cost savings of up to \$150 per year¹⁹ on energy bills for consumers. Tide has helped lead the charge to switch to cold water washing for more than 20 years and is drawing on recent research with the World Wildlife Fund²⁰ on how to remove barriers and introduce opportunities that will prompt consumers to wash in cold water.

In 2024, findings from the research led to two key interventions. First, Tide introduced new upgrades to its formula across all Tide pods to release soils and grease in cold water. As part of the roll-out, Tide included visual reminders for consumers to wash in cold. Specifically, Tide shifted the color of the pods from blue, white, and green to only blue and added a snowflake on the front of the package to provide a more direct visual reminder. Tide also launched its Tide Cold certified program with partner washing machine manufacturers Electrolux, GE Appliances, and Samsung.



¹⁹ In non-HE waster, eight loads per week from hot to cold, average electricity rate (13.3c/kWh).

²⁰ Behavioral Insights Team. (2022, September 30). Encouraging US Households to Wash Laundry in Cold Water. <https://www.worldwildlife.org/publications/encouraging-us-households-to-wash-laundry-in-cold-water>

Each manufacturer has brought the program to life in a new way, through a specific cold wash setting on the machine or through a new machine feature that improves the machine's ability to clean in cold with Tide. Tide has tested and validated each machine, adding a TideCold emblem to those machines that have been certified. Tide has also worked with manufacturers to make the cold settings more easily identifiable and accessible for users.

Tide's membership in ACI is also helping to amplify the message around the benefits of washing in cold. With ACI's support, Tide can spread the word about cold water washing to other members and consumers alike and reach its goal of moving from 57 percent of laundry loads in North America being done in cold water to 75 percent by 2030.



SUSTAINABLE FEEDSTOCKS

As the cleaning products industry continues to review and evolve product ingredients, we expect a shift away from fossil fuel-based to more sustainable feedstocks. ACI defines a sustainable feedstock as a raw or recycled material available to meet the requirements of the cleaning products industry today without compromising the ability of future generations to meet their needs. Sustainable feedstocks reduce GHG emissions, value nature, increase transparency and contribute positively to the well-being of the global community.

In 2023, ACI launched its Sustainable Feedstocks Pledge for its members. The pledge promotes the increased use of more sustainable feedstocks in the cleaning products industry by addressing the sustainability risks of cleaning ingredient raw materials.

To sign on to this initiative, ACI members must commit to the following three goals:

- Identify relevant feedstocks, risks and sustainability opportunities across cleaning product portfolios;
- Increase the use of more sustainable feedstocks and feedstocks created with more sustainable production practices across cleaning ingredient portfolios; and
- Collaborate across the cleaning products value chain to increase transparency, availability and adoption of more sustainable feedstocks.

ACI also launched a members-only Screening Level Life Cycle Assessment database to provide members the ability to compare ingredients and their impacts on climate change, land use, water consumption and fossil fuel use. The database acts as a starting point for member companies when conducting life cycle assessments to identify more sustainable feedstocks in support of the pledge and beyond.

6

ACI members have committed to the Sustainable Feedstocks Pledge.

Members: Henkel Corporation; IFF; Inolex; Novonesis; Twin Rivers Technologies; Croda.



60%

of our members have committed to using RSPO-certified palm oil.



36

of our members make biopreferred ingredients or have biopreferred cleaning products available through the U.S. Department of Agriculture's BioPreferred Program.



Members: Acme-Hardesty Co.; Arkema Inc.; BASF Corporation; Betco Corporation; Bona Kemi; Church & Dwight Co., Inc.; Clariant Corporation; The Clorox Company; Colonial Chemical, Inc.; Corbion; Croda; Dow Inc.; Eastman Chemical Company; Eco Quality Solutions LLC; Ecolab Inc.; Georgia-Pacific Professional; GOJO Industries, Inc.; Henkel Corporation; Ingevity; Inolex; Integrity-Biochem; Jungbunzlauer Inc.; Locus Ingredients; Lubrizol Advanced Materials; Lygos, Inc.; Nouryon; Pilot Chemical Company; Procter & Gamble; Reckitt; SC Johnson; Seventh Generation, Inc.; Solugen; Sunshine Makers; Symrise; Unilever; Wilmar International Ltd.



REPORT DETAILS

LOOKING TO THE FUTURE

As a collective voice for the industry, ACI has both a role and a responsibility to help our members make progress on their sustainability journey.

Our initiatives, such as the 1.5°C Challenge and the Cold Water Saves initiative, have seen the cleaning products industry come together to address global challenges to create a more sustainable, cleaner and healthier world. As the challenges facing our planet continue to get bigger, the need for ACI to bring together members to identify new approaches only grows.

Our goal is to drive and amplify the sustainability work done throughout the cleaning products industry. To do so effectively, we engage with our members to understand their goals and requirements. We then provide a space for members to convene with peers, suppliers, customers and other stakeholders to agree on the joint actions we need to take. Additionally, our four goals, resources and series of programs allow us to focus and channel our efforts, and those of our members into building successful sustainability programs.

Supporting and fostering collaboration between our members and engaging with our global partners and goals maximize our impact for good. ACI will continue to fulfill our role as facilitators of change as we help our members to tackle the challenges ahead and drive the industry toward a cleaner future.

ABOUT THIS REPORT

This report is ACI's seventh Sustainability Report, covering the period from June 2022 to June 2024.

The statistics in this report represent information aggregated from our members' public commitments collected in May 2024, as well as from interviews conducted with our members' sustainability professionals. Our hope is to demonstrate ACI's work to advance sustainability throughout the industry and highlight our members' work to tackle global challenges.

ACKNOWLEDGING OUR PEOPLE

We especially thank our member representatives for their contributions: Committee Chair Yash Parulekar (MonoSol, A Kuraray Company), Committee Vice Chair Niki King (The Clorox Company) and previous Committee Vice Chair Hans Hummel (Pilot Chemical).

SUSTAINABILITY STRATEGY AND CONTENT DEVELOPMENT

Special thanks to Anthesis Group for its work in support of our Sustainable Feedstocks Initiative and our MCI tool, and to FrameworkESG, a Morrow Sodali Company, and Designate, a Morrow Sodali Company, for the production of our 2024 Sustainability Report.

STAY IN TOUCH

Please contact us if you have any questions or comments, or if you would like to help us reach our goals.

Email: sustainability@cleaninginstitute.org





OUR MEMBER COMPANIES

Special thanks to member companies who participated in the development of this report, and for their continued support of ACI's sustainability initiatives.

View the [full list of American Cleaning Institute members](#) on our website.



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