



Driving Sustainable Impact

AUSTRALIA & NEW ZEALAND

ECOLAB[®]
PROTECTING WHAT'S VITAL[™]

Our customer goals focus on how Ecolab technologies and services help drive an exponential return on investment (eROI) for our customers, while helping protect people and vital resources. Our 2030 Impact Goals showcase our global team's dedication to helping our customers thrive and make a positive impact in the world focused on critical drivers around water, food, climate and health.

Ecolab 2030 Impact Goals



Ecolab 2030 Impact Goals

<https://www.ecolab.com/corporate-responsibility/2030-impact-goals#:~:text=By%202030%2C%20we%20plan%20to,certification%20in%20high%2Drisk%20watersheds>

2030 Global Customer Impact Goals



Water

Help customers conserve water equivalent to the drinking water needs of

1 billion
people



Food

Help customer 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



Climate

Help customer become carbon neutral by reducing greenhouse gas emission by

6 million
metric tonnes,
preventing almost
10 million
pollution-related illnesses

2020
progress

WATER

936
BILLION
LITRES
SAVED

FOOD

1.3
BILLION
PEOPLE
SAFELY FED

HEALTH

66
BILLION
HANDS
CLEANED

CLIMATE

3.5
MILLION
METRIC
TONNES
AVOIDED



ELEVATING SAFETY AT WYNDHAM WITH SIMPLE, SUSTAINABLE SOLUTIONS



Insight

Wyndham Hotels & Resorts, a global hotel company, was looking for solutions that would help reduce their environmental footprint while keeping spaces clean and safe during the COVID-19 pandemic.

Innovation

Ecolab and Wyndham partnered on programs to:

- Reduce laundry wash steps, water usage and temperature, which reduced overall water and energy use
- Streamline cleaning process to help ensure spaces were safe while also reducing plastic waste generated on-site

Impact

Ecolab's clean, safe and resource-efficient solutions helped the Wyndham team save money, energy and time, so they could focus on providing their guests with a clean and comfortable stay.

Solutions

- Aquanomic™ Laundry Program
- Oasis Pro® Solutions
- 3D TRASAR™
- SMARTPOWER™
- Wash 'N Walk™ Floor Cleaner

Sustainable Impact

 WATER	610 million litres (610,000 m³) of water
 ENERGY	28 million kWh
 PRODUCTIVITY	185,000 hours of labor reclaimed
 GREENHOUSE GAS EMISSIONS	5,800 metric tonnes of CO ₂
 WASTE	430,000 pounds of plastic

TOTAL VALUE DELIVERED

\$10 million



Success Stories | Ecolab

<https://www.ecolab.com/expertise-and-innovation/success-stories#sort=%40webpublishedyear%20descending>



What Are We Doing In Australia And New Zealand?

“Helping our customers operate more sustainably is a crucial part of our purpose at Ecolab. Water has a wide variety of uses in a manufacturing facility, including cleaning, sanitation, and food processing purposes. It takes a lot of energy to pump, treat, and heat water so saving water or using water more efficiently helps our planet.”



Paul Rawding,
SVP and Market Head,
Australia and New Zealand

Ecolab ANZ

Nearly **15,000** customer locations

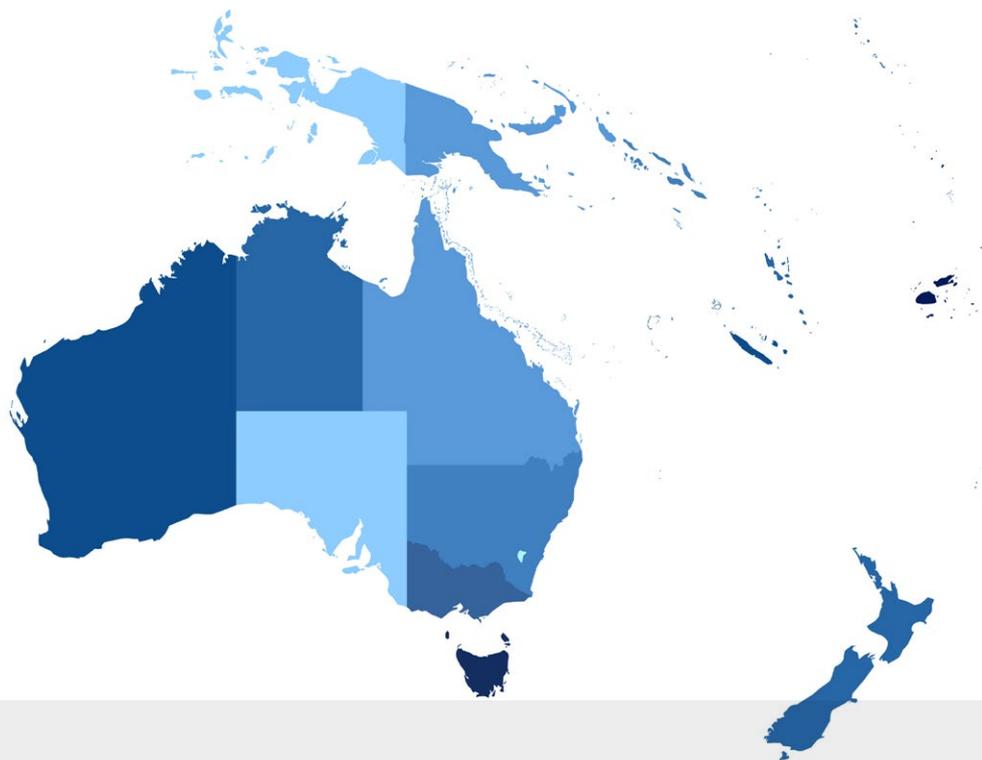
20 facilities

6 manufacturing facilities

2 RD&E facilities

1,100 associates

600 sales and service associates



Invested **\$40m** in local manufacturing and RD&E capabilities in Australia over the past 5 years



HELPING FONTERRA ACHIEVE WATER SAVINGS AND ENVIRONMENTAL GOALS

Insight

Working with Ecolab, Fonterra ANZ has reduced its freshwater use and waste in many of its factories by using Ecolab's technical expertise, innovation, and modelling tools. This includes the use of technology such as **3D TRASAR™**, advanced analytic tools, Integrated Water Management Audits and Ecolab field team support.

Innovation

- **3D TRASAR™** Water saver technology: A digitally connected chemistry solution that optimizes cooling tower performance and reduces water use
- Integrated Water Management Audits and Ecolab field team support

Sustainable Impact



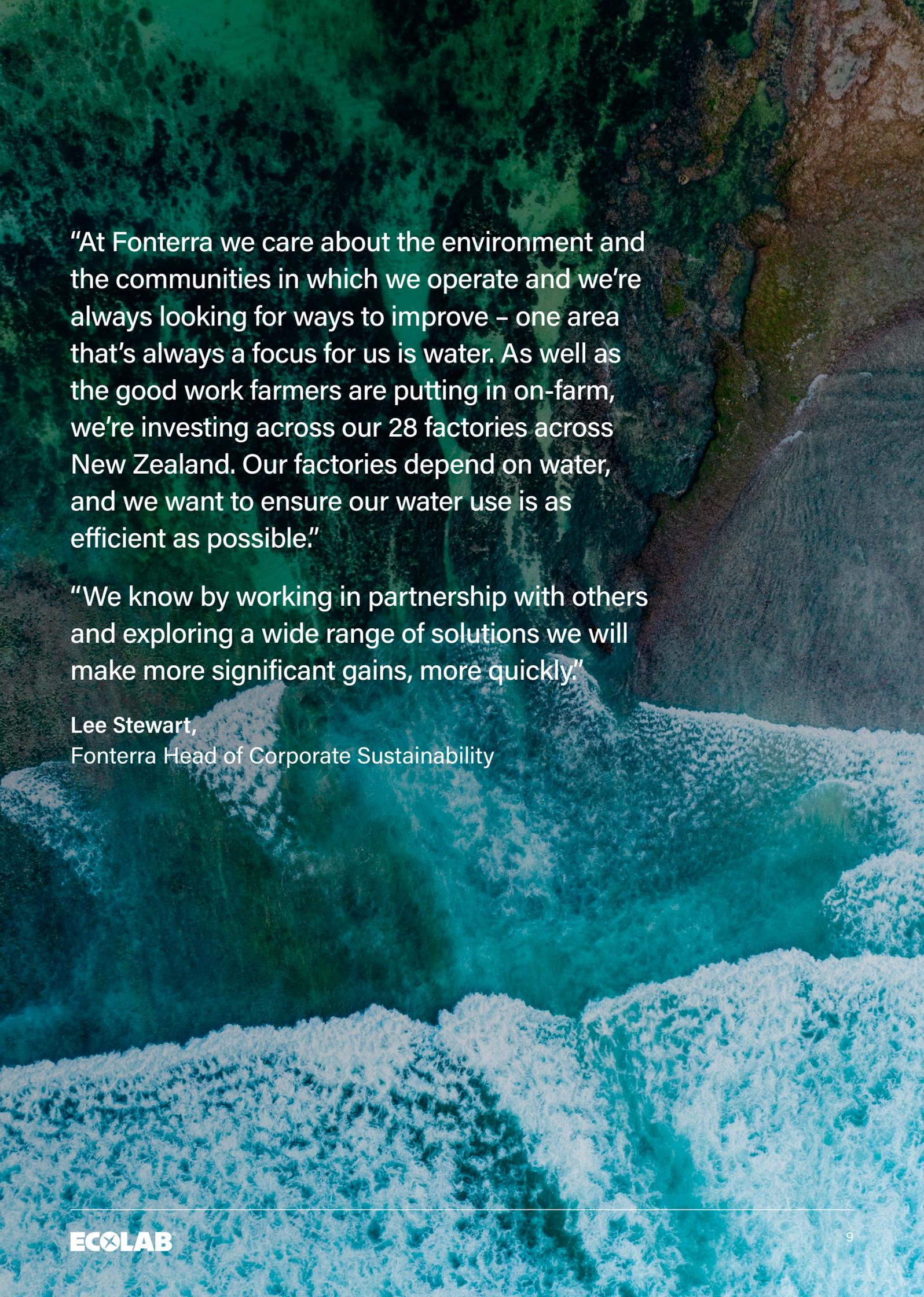
WATER

190 MILLION LITRES
OF WATER SAVED
OVER 2 YEARS

Equivalent to the drinking needs of over half a million people annually



3D TRASAR™ Water saver technology:
<https://en-au.ecolab.com/offerings/3d-trasar-technology-for-cooling-water>

An aerial photograph of a rugged coastline. The top half shows dark, mossy rocks and a narrow stream of water. The bottom half shows white, foamy waves crashing against the shore. The overall color palette is dominated by deep blues, greens, and whites.

“At Fonterra we care about the environment and the communities in which we operate and we’re always looking for ways to improve – one area that’s always a focus for us is water. As well as the good work farmers are putting in on-farm, we’re investing across our 28 factories across New Zealand. Our factories depend on water, and we want to ensure our water use is as efficient as possible.”

“We know by working in partnership with others and exploring a wide range of solutions we will make more significant gains, more quickly.”

Lee Stewart,
Fonterra Head of Corporate Sustainability



In business operations, water is being



MOVED



COOLED



HEATED



TREATED

This requires energy



WATER

=



ENERGY



SAVINGS IDENTIFIED DURING ECOLAB WATER AUDIT

Insight

Water is critical to Coca-Cola Europacific Partner's operations. It's the main ingredient in their products and essential to manufacturing processes.

Climate change however is exacerbating water stress and water scarcity in many parts of the world. To address these challenges, Coca-Cola Europacific Partners has adopted a value chain approach to water stewardship, focusing on water efficiency within their own operations, particularly in their production facilities. As part of CCEP's 2025 global sustainability targets, the business is working towards reducing the water used in manufacturing by 20%.

Innovation

Ecolab carried out an Integrated Water Management Audit at CCEP's Richlands facility in Queensland. The audit helped to identify multiple operational saving projects which will ultimately help achieve the company's 2025 sustainability ambitions.

Impact

Ecolab Industry Technical Consultants spent five days at site understanding the largest water using areas. A detailed water map was built and split into 3 areas being Clean Water, Mineral Water, Waste/Recycled Water to establish the optimal way to reduce, reuse and recycle water in the production facility.

The savings identified will help reduce water use at Richlands by 37.8%.

Sustainable Impact



WATER

282 million litres



WASTE

258 million litres



ENERGY

9000 gigajoules



GREENHOUSE GASES

1500 tonnes

SPL



COMMITTED TO OPERATING MORE SUSTAINABLY



Insight

SPL is Australia's leading commercial linen and laundry service supplier providing the highest quality commercial linen, laundry and dry-cleaning, and supply chain solutions to a wide range of industry segments including major accommodation, health and aged care, hospitality and speciality groups such as mining, nationally.

Innovation

The **Blue Ocean water filtration system** was installed in four out of **seven of SPL's plants** and has generated both water and energy savings. Savings include link to wastewater costs.

Impact

Using Blue Ocean, has meant that 45-55% of water has been recycled. Additionally, this system can recover laundry wastewater at a rate of 18m³/second delivering significant water, energy and chemical savings.

Sustainable Impact



WATER

2 billion litres saved since implementation



ENVIRONMENTAL
RESPONSIBILITY

Reduction of chemical usage



ENERGY

Less heat needed in the process

TOTAL VALUE DELIVERED

\$1.4 million annually



The Blue Ocean water filtration system

<https://en-au.ecolab.com/offering/blue-ocean-row>

Seven of SPL's plants

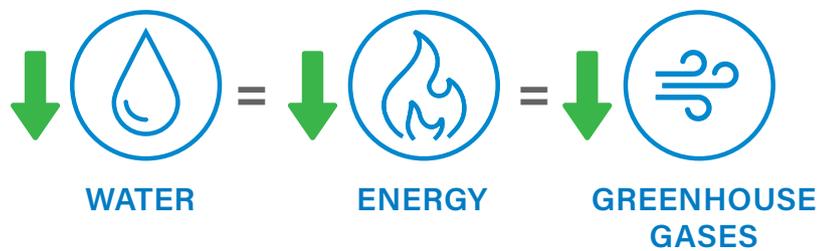
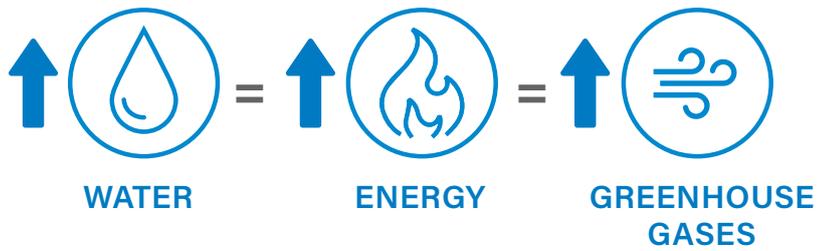
<https://www.splsolutions.com.au/innovation/technology>



“At SPL, operating sustainably is a key focus alongside ensuring our customers receive a first-class hygienic service. Working together with Ecolab and using Blue Ocean technology has allowed SPL to achieve this, alongside significant water savings in a process that traditionally uses a lot of water to achieve this high standard.”

Ray Hayes, Executive Director, SPL

Water is tied to carbon emissions



By helping companies use water more efficiently

... we help them save energy

... which helps reduce their carbon emissions

Protecting The Environment

Pest Elimination

We take proactive actions to promote and drive effective and sustainable pest management. We systematically follow **Integrated Pest Management (IPM)** principles and apply strict hierarchy of control to minimise the use of chemicals to protect the environment and wildlife.

- **Non-chemical methods**
 - Prevention and exclusion
 - Physical trapping methods
- **Escalation threshold to define when action is required**
- **Digital Intelligent Rodent Monitoring (IRM) solution**
 - 24/7 onsite monitoring
 - Insight to drive proactive prevention and protection of rodents





MINING PROCESSES IMPROVED THROUGH WATERSHED TECHNOLOGY

Insight

During the mining process 'tailings' which are ultra fine reject materials from the mining process are produced as waste and sent to tailing dams. Yancoal wanted to reduce their impact on the environment and more effectively use this wastewater back into their operations while ensuring the ability to more effectively rehabilitate the land.

Innovation

Ecolab worked with Yancoal to introduce WaterShed or Secondary Flocculation which reduces the volume of the dam's storage as it accelerates the solid/ liquid separation. This will ensure that more water can be returned back to the process, getting more use out of the current tailing dams.

Impact

- The tailings dam's life are extended and then they are easier to rehabilitate reducing the impact on the environment
- Water is reused more effectively, returned to the mining operations and therefore their overall water use is less
- Reduces maintenance on pumps, valves and machinery

Sustainable Impact



WATER

51%-80% improved water quality



ENVIRONMENTAL RESPONSIBILITY

Fewer tailing dams needed, and rehabilitation of the land is easier



WASTE

Less waste



ASSETS

Reduced maintenance on assets



SIGNIFICANT WATER SAVINGS ACHIEVED USING ECOLAB PROGRAM

Insight

Another Ecolab Mining customer wanted to reuse an existing wastewater stream for makeup to its cooling tower however, the water was high in organics. Biocontrol for the water proved either highly expensive or led to serious corrosion issues. A solution was needed, as reusing this water would avoid having to import fresh water in an unnecessary way.

Innovation

Using Purate (Chlorine Dioxide), an Ecolab program, the customer was able to control bacteria in hard-to-treat wastewater and avoid the corrosion issues, which enabled the reuse of existing wastewater back into the cooling tower.

Impact

- Significant water savings were maintained by treating the existing wastewater, both from a wastewater and freshwater perspective
- Additionally, it also helped reduce corrosion and extend asset life in this space

Extract from company 2015 Annual Report: 450 ML/annum tier 1 water saving reported and maintained as a result of this project.

Sustainable Impact



WATER

**450 MILLION
LITRES OF WATER
SAVED**

Equivalent to the drinking needs of over a million people annually



HUMAN HEALTH
& SAFETY

Fewer Legionella and bacteria counts



ASSETS

Reduced corrosion in cooling tower

As part of our continuous improvement process, we endeavour to use water efficiently. A project was completed in June 2014 to reduce the volume of water entering the Worsley refinery contaminated water storage facility. This was achieved by reusing high-quality condensate in the powerhouse cooling tower. This resulted in a reduction of clean water use of more than 450,000kL in FY2015. To keep the zero-release contaminated water storage area as resilient as possible during periods of high rainfall, a number of other projects were also executed in FY2015, which have increased storage capacity by approximately 1.5 gigalitres.



HELPING CLIENTS OPERATE MORE SUSTAINABLY AND SAFELY

Insight

Compass Group Australia aims to help clients operate more sustainably and safely. Liquid cleaning products are more hazardous and are traditionally stored in plastic containers.

Innovation

SMARTPOWER™ is a solid range of colour coded detergents that brings foodservice operations to a new level of food safety, simplicity and sustainability. It's a high performing cleaning program that covers all warewashing needs.

Impact

- Non-corrosive 99.7% phosphate-free
- Safe, Simple & Sustainable, Solid range of colour coded detergents ensures safety in relation to changing product when cleaning
- 97% reduction in packaging - using cellophane instead of traditional plastic containers
- Reduces rewashing by 60% ensuring great water savings are achieved

Sustainable Impact



WATER

Reduces rewashing by 60%



ENVIRONMENTAL RESPONSIBILITY

Non-corrosive 99.7% phosphate-free



ENVIRONMENTAL RESPONSIBILITY

97% reduction in packaging



SMARTPOWER™

<https://en-au.ecolab.com/offerings/smartpower>



Over the years, Ecolab has done a lot to try help Compass Group Australia achieve its sustainability goals such as:

- Removing all hazardous chemicals from all sites
- Reducing packaging of cleaning products
- Launching the **SMARTPOWER™** solids range and;
- A Scrub free product – which means a reduction in time spent during the cleaning process

Have you seen an impact or results in these areas?

Absolutely but this should be no surprise. The partnership we strive for with our supply chain, and that we enjoy with the team at Ecolab, is founded in understanding new technologies, their potential applications and in carefully understanding their effectiveness in our operations. Especially in chemicals, our work together must be focussed on ensuring we enhance safety and the wellbeing of our people before we introduce a new product and technology. Each opportunity is carefully developed through our mutual teams and where both our operations and dedicated safety teams play a pivotal role in ensuring concepts become proven and can measure success. The quality of collaboration, of conversation and co-development is key to a true partnership and we are delighted to continue to enjoy this with the team at Ecolab.



Andrew Brightmore,
Executive Director,
FoodBuy and
Compass Group Australia





SUSTAINABILITY IS AN IMPORTANT FOCUS FOR WESTERN HEALTH IN VICTORIA, THE THIRD LARGEST HOSPITAL NETWORK IN AUSTRALIA

Insight

Western Health needs to keep thousands of patients and hundreds of staff healthy and safe around critical chemicals while aiming to minimise plastic usage to reduce overall environmental impact. Ecolab helped Western Health achieve this when overhauling their Central Sterilising Department (CSD) in 2014.

Innovation

The fully automated Ecolab CSD system introduced has no packaging, saving an average of 1,200 five litre containers being diverted from landfill every year.

The CO₂ footprint was also reduced by half through manufacturing, packaging and transport reductions.

The complete elimination of staff handling was achieved by totally removing chemical products from the CSD and Endoscopy departments.

Sustainable Impact



ENVIRONMENTAL
RESPONSIBILITY

Reduction in plastic usage and 30% reduction in chemical usage

“The environmental benefits of not using the old 5L bottles in our washing system have been significant and along with a 30 percent reduction in our chemical use, we’ve saved both money and much needed storage space. With the Ecolab system it’s simply set-and-forget as Ecolab looks after everything.”

– Karen Tricker,
Nursing Unit Manager, Western Health



ENVIRONMENTALLY RESPONSIBLE SURGICAL HAND ANTISEPSIS

COMPARISON OF SURGICAL RUBS VS SCRUBS

	SURGICAL RUBS	SURGICAL SCRUBS
Efficacy (ACORN, EN12791)	★ ★ ★	★
Application time	90 seconds	5 – 3 minutes
Dermal tolerance	★ ★ ★	★ ★
Environmental sustainability	★ ★ ★	★
Economical	★ ★ ★	★ ★

Using the current clinical evidence (WHO, ACORN), explain the main differences between surgical scrub and surgical rubs in terms of efficacy, application time, skin health, environmental sustainability and overall costs.



An entire scrub team will use up to 60L of water per procedure, once they have scrubbed and rinsed their hands with traditional scrubs.

WHO Guidelines on Hand Hygiene in Healthcare, World Health Organization 2009



ANZ Protein Manufacturer



DRIVING INCREASED RETURN ON INVESTMENT WHILE REDUCING WATER AND WASTE

Insight

Alliance Group, a major New Zealand meat manufacturer, faced significant challenges in relation to their wastewater plant:

- Trade waste compliance & potable water usage restrictions becoming more stringent
- Significant water usage for chemical make-down in wastewater plant
- High solids content and sludge volumes are a major contributor to wastewater plant operational costs and making trade waste compliance challenging

Innovation

- Full plant survey undertaken to identify impact on wastewater treatment plant
- ADPAS installation replaced traditional polymer make-down unit, holding tanks & pumps
- Tailored chemical program implemented to optimise chemical usage & DAF efficiency

Impact

- Reduced water consumption
- Elimination of 120T of Bentonite & reduction in sulphuric acid
- Immediate and visible reduction in suspended solids improving trade waste quality
- 15% reduction in sludge
- Improved safety due to reduced manual handling
- Increased operational efficiency and reduced labour for chemical make-down & control

Sustainable Impact



WATER

Reduced water consumption



ENVIRONMENTAL RESPONSIBILITY

Reduction in Sulphuric Acid



WASTE

15% reduction in sludge



HUMAN HEALTH & SAFETY

Less manual handling

TOTAL VALUE DELIVERED

\$128,800 annually



COOPERS BREWERY REDUCES USE OF WATER AND ENERGY WITH 3D TRASAR™ TECHNOLOGY FOR CIP

Insight

At Coopers Brewery:

- Multiple number of CIP's per day makes data difficult to collect and monitor
- Optimisation of all CIP circuits was a priority
- Key KPI savings included chemistry, water, CIP Time
- Improved visibility of CIP circuits was required to provide additional information for improvements
- There are significant costs associated with chemistry and water use
- Full CIP reports for all circuits were required

Innovation

Ecolab 3DT CIP innovation has given Coopers better visibility of the CIP circuits and assisted them to optimise the water, chemical and time causing subsequent cost savings by:

- Providing visibility on all aspects of the CIP Program
- Continuous monitoring of every CIP and providing immediate feedback and an escalation process
- 6,937 washes monitored over 12 months
- 588 exceptions reported
- Capturing water and chemical use during all CIP steps
- The data collected was used to identify areas of opportunities to optimise
- Analysis of this data by the Coopers and Ecolab Team supported by Digital Services Team determined where sustainable results could be gained

Impact

- Chemistry – 34% reduction in sanitiser chemical usage
- Water saving due to reduction in Sanitizer Rinse times result saving 10.47 million litres water per annum
- Time Saving – Reduction in Sanitiser rinse time from result – 290 CIP hours per year



Ecolab 3DT CIP

<https://en-au.ecolab.com/offerings/3d-trasar-technology-for-cip>

Sustainable Impact



WATER

10.4 million litres annually



ENVIRONMENTAL RESPONSIBILITY

Significant reduction of chemical usage



ENERGY

290 hours less per year

TOTAL VALUE DELIVERED

\$104,441 annually

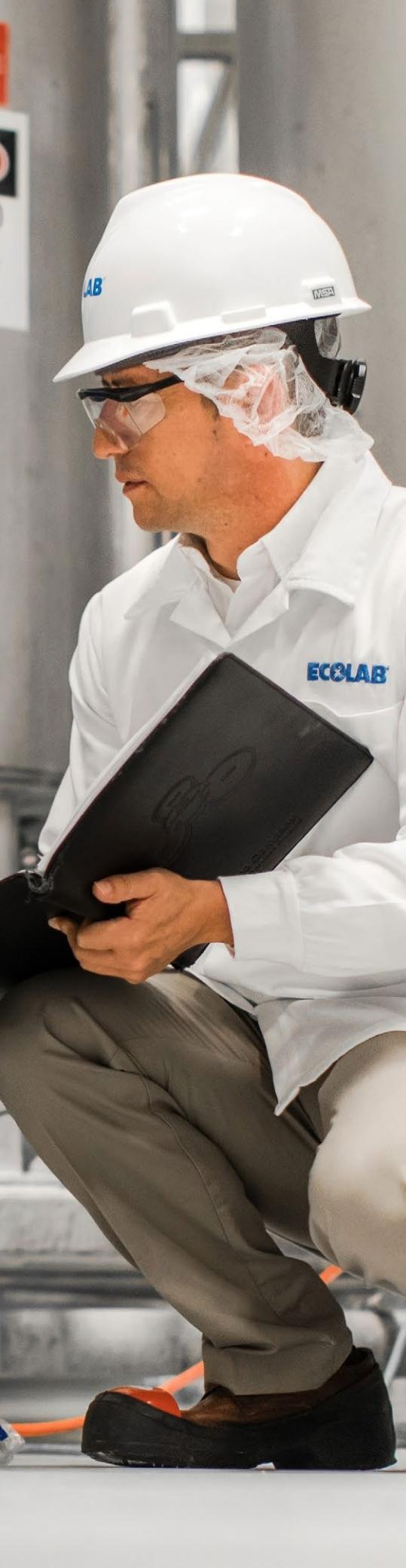
Sustainability at Ecolab

Sustainability Initiatives in Australia and New Zealand's Supply Chain Sites



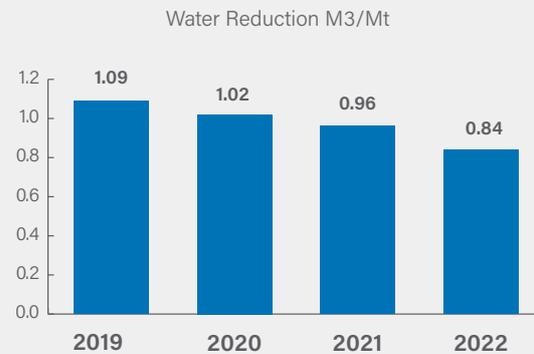
Solar panel installation at the Darra plant in Australia





ANZ Sustainability

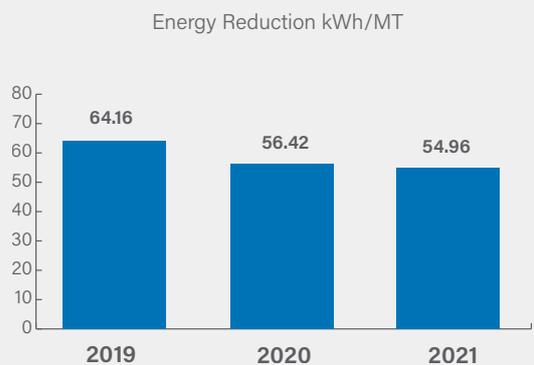
Water Reduction Journey



2022 Key Initiative

Cooling Tower/s new caustic Plant in Hamilton

Energy Reduction Journey



2022 Key Initiative

Solar Panels- Kwinana, Darra, Revesby

Key Sustainability projects implemented:

- Water conservation programs include reuse/recycling of wash water from batches
- Latex wash wastewater recycling
- Waste management - recycling/segregation of plastic, paper and cardboard
- Energy reduction - use of LED lighting over Fluro lighting
- Installation of power factor correction units at some Supply Chain sites
- Installation of air receivers
- Preventative maintenance programs - reducing leaks, air reduction and energy costs



Sustainable and Social Impact

- 602 employees took part in an OzHarvest/ KiwiHarvest activity over 2021
- Unique volunteer participation 1 Dec 2020 to 30 Nov 2021:
 - Australia 22.6%
 - New Zealand 17%
 - Fiji 16.7%
- Types of activities included, Hamper Packing, Food Waste sorting, Cooking for a Cause, Cooking at Home, Cleaning Product donation and Lunch and Learn sessions
- The program has continued in 2022 as Ecolab employees support the reduction of food waste while helping people in need



Foodbuy And Ecolab Both Support OzHarvest In Australia

Tell me more about why Foodbuy partnered with such a great cause?

As the world's largest food and support services provider, we have a compelling opportunity and a significant enduring responsibility to help eradicate food waste and to ensure good food gets to those most in need across Australian communities. We share these values with the amazing team at OzHarvest who not only provide that critical conduit into those communities and charities, but also complement our internal work, across our +750 sites across Australia to both rescue and engineer food waste from our operations and in helping raise awareness with consumers. Tackling food waste has long been, and remains, a critical component of our business alongside our expert culinary services to our clients.

Our commitment is enshrined in our global "Planet Promise" net-zero GHG emission strategy where partnerships such as with OzHarvest help us design, develop, educate and bring these commitments to life. We also recently became signatories to the Food Waste Pact (the first in our industry to do so) as another partnership that will help us tackle food waste, stopfoodwaste.com.au. These Partnerships form part of our WorldFirst™ approach to "Purpose Led Procurement" and each helps us become a better business.

Andrew Brightmore,
Executive Director, Foodbuy



ANZ launched the OzHarvest Use it Up Campaign across the market to encourage associates to prevent food waste and live more sustainably, while helping those in need.



Volunteers across Australia and New Zealand

What is an environmentally preferred product...



Why choose Recognised® products?

- LEADING INDUSTRY BRANDS ACROSS ANZ
- SCIENCE-BASED
- MULTIPLE-CRITERIA BASED
- INDEPENDENT THIRD-PARTY ASSESSED
- TRANSPARENT PROCESS AND ASSESSMENT
- RECOGNISED ACCREDITATION
- PROMOTES FLEXIBLE APPROACHES TO FORMULATION
- INDUSTRY BACKED AND SUPPORTED



Recognised® products have undergone independent third-party scientific assessment against a rigorous standard



The Recognised® Scheme was endorsed by an independent Expert Panel of toxicologists



Sustainable Choice NSW accepts accreditation under the Recognised® scheme for adding products to its database



The Recognised® eco-label identifies environmentally preferable commercial cleaning products

To reduce potential environmental impacts in the production, distribution, use and disposal of chemical ingredients, commercial cleaning product ingredients are required to be:



CONCENTRATED



HAVE LOW TOXICITY TO AQUATIC ORGANISMS, OR TO RAPIDLY BIODEGRADE



NOT BE BIOACCUMULATIVE



DYES AND COLORANTS



VOLATILE ORGANIC COMPOUNDS



PACKAGING

And meet specific requirements for:

Ecolab indigenous supplier is accredited



- Premium Brand
- Australian Made
- Sustainable Program

Register of recognised Ecolab products



Register of Recognised® Products - Accord
<https://accord.asn.au/sustainability/recognised/register-recognised-products/>

The Recognised Environmental Credentials Scheme identified environmentally preferable commercial cleaning products. Recognised products have undergone independent third-party scientific assessment against a rigorous multiple criteria standard. The scheme was developed by the industry body Accord in partnership with industry. I serve as part of the technical working group who helped develop and continue to review the criteria for the scheme, to ensure they remain sound, robust and science-based. The scheme was launched in 2012. Ecolab currently has 36 products carrying the Recognised Environmental Credential, including all applicable products in our new Mandura range.

Peter Rich,
Ecolab RD&E Lead, ANZ

Our purpose

We partner to make the **world cleaner, safer and healthier -**

helping customers succeed while protecting people and vital resources.

Sustainability Awards



Named again to Corporate Knights' 100 Most Sustainable Corporations in the World

Rank: #33

Ecolab again recognised for Global Water Leadership in CDP A List

Ecolab again named to Dow Jones Sustainability World and North America Indices

Named among Most Engaged Companies in World's Largest Corporate Sustainability Initiative

UN Global Compact



Member of
Dow Jones Sustainability Indices

Powered by the S&P Global CSA



Full list of awards here

<https://en-au.ecolab.com/media-center/awards-and-recognition>

ECOLAB[®]

PROTECTING WHAT'S VITAL[™]

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