

# OUR 2024 SUSTAINABILITY COMMITMENTS



## ENVIRONMENT

2023

*Making innovative use of existing resources to reduce waste and impact*



**ENVIRONMENT**  
Promote Green Growth

**CASE STUDY: OIL FILTRATION TRUCK**

**Reducing waste, costs and impact**

Until 2023, the Power Services Northern (PSN) transformer team had an insulating oil purification unit. This was built onto a trailer which proved to be an unsafe combination.

PSN were looking to acquire a truck to have the unit built onto it to improve its versatility and handling. Purchasing a new truck would have been an expensive exercise.

A communication had been put out to the business that there were two redundant trucks being made available from our Gas Services Perimeter. A plan was then developed to reuse and repurpose them to protect the environment.

PSN took the initiative by taking over one of the trucks with the above exercise in mind. On receiving the truck, the team stripped off all the redundant line boxes and metal framing, leaving the bare deck as a canvas to work from.

Our parent company VINCI's values promote construction techniques and materials to lower use of natural resources and limiting the removal of primary materials inspired the use of recycled materials.



The PSN team optimised resources while reducing waste from the truck by making use of existing materials. VINCI also promotes eco-design, which takes into account the environmental impact of a project, in an effort to protect the environment.

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*Making innovative use of existing resources to reduce waste and impact*



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**CASE STUDY: OIL FILTRATION TRUCK**

**Reducing waste, costs and impact**



(continued) The Power Services team came up with an idea to install an aluminum bunding, which is a fitment ideal for hazardous liquid.

It can be used to contain and divert liquids such as oil, coolants, fuels, and water, to prevent environmental contamination in the event of a spillage.

The completed version of the truck resulted in an increased efficiency at worksites, and reduced risk of environmental impact linked to daily activities.

For example, instead of the usual oil filtration being on a trailer and taking up space, the new design has the oil filtration placed on the truck's tray, making for quicker deployment, ease of transport, and ease of access to sites.

This also creates an impact in the area of energy consumption by switching to a single power source rather than one in a separate trailer-based unit, thus reducing the use of fossil fuels.

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Reducing contamination risk,  
waste and landfill



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### CASE STUDY: TRANSFORMER OIL RECYCLING

#### Recycle and refine waste oil

Transformer or insulating oil is a critical component in electrical transformers, ensuring efficient energy transmission, while also presenting environmental challenges due to its potential for contamination.

Recognising the need to balance energy needs with ecological responsibility, Omexom New Zealand has embraced transformer oil recycling as an essential element of its sustainability journey.

Transformer oil serves as both an insulator and coolant in electrical transformers, preventing overheating, and ensuring the smooth flow of electricity.

However, this oil can become contaminated with impurities over time, posing environmental and health risks. To address this challenge, Omexom has embarked on a mission to recycle transformer oil.



Omexom partnered with several key New Zealand oil suppliers to enable the use of high-quality recycled transformer oils on all its clients' assets.

Omexom's Distribution Services Perimeter has a long-standing association with Scope Oils, where it has used over 319,000 litres of recycled transformer oil since 2015!

Omexom is committed to protecting and preserving our beautiful natural environment. By switching to recycled oil, we reduce the amount of hazardous waste that would otherwise end up in landfills, and remove the risk of it being improperly disposed of.

This helps in conserving valuable landfill space and reduces the potential for soil and groundwater contamination. Transformer oil also often contains harmful substances,

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Reducing contamination risk,  
waste and landfill



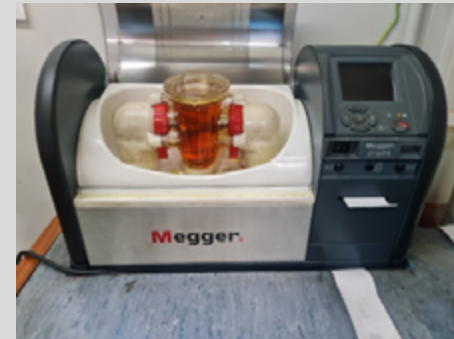
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### CASE STUDY: TRANSFORMER OIL RECYCLING

#### Reduce and refine waste oil

(continued) such as PCBs (polychlorinated biphenyls), or heavy metals.

After de-sludging, de-hydrating down to 1ppm of water; neutralising acidity down, and filtering, the recycling methods by our suppliers help remove and properly dispose of these contaminants, preventing them from entering the environment.



The recycled transformer oil is then offered for sale back to New Zealand's electricity networks, generators, and high voltage contractors for use in transformers, switchgear, tap changes, and numerous high voltage control equipment.

These initiatives, such as recycling transformer oil, extends the lifespan of the oil, reducing the need for new oil production, as part of Omexom's drive to reduce Scope 3 emissions.

Re-refining or recycling transformer oil is also less energy-intensive compared to producing new oil from raw materials. This contributes to lower greenhouse gas emissions and energy consumption.

Omexom has also helped reduced costs for our clients as well with this initiative, as it is often less costly than purchasing new oil. High-quality recycled oil is equally as effective in providing effective insulation and cooling properties for transformers.

Benefits are the reduction of the need for premature equipment replacement, saving resources, negating delays from supply chain issues, supporting the local economy, creating domestic jobs, and reducing waste for our clients.

Omexom is fulfilling its commitment to supporting the circular economy within New Zealand, while preserving the natural environment around us.

2023

Supporting an organisation working for environment and community

**CASE STUDY: RECYCLE TO REDUCE**

**Reducing waste and carbon impact**

In August 2023, Omexom New Zealand provided two amazing volunteers from our Power Services Northern team to support the Te Whangai Trust in decommissioning their Wesley Intermediate School site.

This site had huge significance for Te Whangai, so Omexom was willing to provide support to dismantle their potting shed and smoko area, to allow for transport over to their new hub in Panmure. Our staff tackled the challenge with enthusiasm, resilience and a lot of hard work!

In line with Te Whangai’s amazing philosophy, the Omexom staff helped to relocate the structures to recycle and reuse as much of the materials as possible.

By repurposing yet another structure for Te Whangai, Omexom once again managed to conserve valuable resources and reduce the environmental impact by avoiding the manufacturing and subsequent purchase of new materials.

Omexom’s provision of labour and resources underlines our relationship and commitment to Te Whangai Trust and our joint commitment to preserving people as well as nature.

We look forward to many more years collaborating with Te Whangai Trust to build communities and sustain the environment.



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*Act for the climate by reducing the direct and indirect emissions of our supply chain.*

**CASE STUDY: REDUCE INDIRECT CARBON EMISSIONS**

**Carbon Impact Solution**

At the 2023 Safety Leaders Day in February, a decision was made to have all leftover food from the morning tea and lunch given to KiwiHarvest.

Due to the 2023 Auckland Anniversary weekend floods and Cyclone Gabrielle across regions in the upper North Island, there were widespread catastrophic floods in January and February. These weather events prevented a number of staff from attending the Safety Leaders Day, and Omexom donated all leftover food to KiwiHarvest.

KiwiHarvest reduces the negative impacts of food waste on our environment by redistributing excess food; helping to create lasting positive social change by nourishing those in need.

Every month, KiwiHarvest rescues 170,000 - 200,000 kg of good quality surplus food and diverts this back to people who are struggling across New Zealand.



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*Act for the climate  
by reducing the direct and indirect  
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**CASE STUDY: REDUCE DIRECT  
CARBON EMISSIONS**

**Decarbonising the business**

In an era where sustainability and renewable energy are at the forefront of global priorities, Omexom New Zealand’s commitment to eco-friendly practices extends to our clients’ projects.

For a recent substation project site, our Power Services Northern (PSN) Business Unit seized the opportunity to design and build their own mobile solar generator, dubbed the “Solar Chariot”, leveraging the power of the sun to meet energy needs efficiently, cost-effectively, and sustainably.

This innovative approach not only reduced the project’s environmental impact but also demonstrated our culture of innovation in Omexom, and our dedication to cutting-edge solutions.

PSN embarked on a sub-station project in an area with limited access to traditional power sources. The project involved a temporary site office requiring a reliable power supply for lighting, tools, and communication.

Traditionally, a petrol- or diesel-powered generator would have been used to power the site but PSN were challenged by the BU Manager to take a new approach to support Omexom’s and our clients decarbonisation efforts.



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The team proposed the idea of building a solar generator system as a viable solution.



By harnessing the power of the sun, we expect to significantly reduce our carbon footprint by up to 12,000 tonnes of carbon dioxide emissions, compared to using a fossil fuel generator everyday. This commitment to sustainable practices aligns with our values and demonstrates environmental responsibility.

Over the project’s duration, the solar chariot is expected to produce substantial cost savings compared to traditional diesel generators, as the energy source, sunlight, is abundant and free. We expect to save around \$13,000 a year in reduced fuel use alone.

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by reducing the direct and indirect  
emissions of our supply chain.*

**CASE STUDY: REDUCE DIRECT  
CARBON EMISSIONS**

**Decarbonising the business**

(continued) The Solar Chariot provides a reliable source of power, ensuring uninterrupted operations on the site. Within the first few months of its installation, the solar chariot is providing over 90% of power, despite cloudy wintry weather. The consistent power generation has also increased efficiency and reduced downtime, as traditional generators had to be topped up multiple times a day.

The Solar Chariot also had other unexpected benefits. The team was able to connect with one of its clients to repurpose large batteries from our client that were at the end of their scheduled life, but not the end of the battery’s life. They would otherwise have been recycled.

The Solar Chariot was designed to be mobile and enable easy deployment to future project sites; anywhere, anytime. The project’s commitment to renewable energy resonated with our clients, who have commended our initiative.

The integration of a solar generator on our client’s project site exemplifies our dedication to sustainable, innovative solutions. By harnessing the power of the sun, we met the project’s energy requirements efficiently and cost-effectively, while contributing to a greener, more sustainable future.



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The Solar Chariot serves as a testament to the possibilities of renewable energy in project management, highlighting the viability of making environmentally responsible choices in our increasingly eco-conscious world.



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Communal recycling bins replace individual personal bins

**CASE STUDY: REDUCE INDIRECT CARBON EMISSIONS**

**Decarbonising the business**

As part of our sustainability strategy for Omexom New Zealand, we have now fully implemented recycling bin stations at all our offices and depots across the country.

Personal bins have also been removed from all staff and replaced by strategically positioned recycling bin stations, covering plastic, general waste, and paper recycling.

The personal bins, which were removed from Auckland sites, have been sent through to our CSR partner, Te Whangai Trust's nursery. The personal bins that were removed from the Palmerston North depot were sent to their CSR partner school, Takaro School.

All 153 desk bins donated will be used as planter pots going forward. We thought this was a great way to promote the circular economy, and give them a new life, as well as improving New Zealand's biodiversity.

The improved waste stations allow us to actively focus on recycling at the depot and take ownership of our impact on our environment.



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It shows how businesses can make meaningful contributions to environmental sustainability through easy, simple and effective steps.



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PPE hard hat recycling to reduce environmental impact

**CASE STUDY: REDUCE LANDFILL IMPACT**

**Decarbonising the business**

As part of Omexom New Zealand's environmental commitment to the circular economy to reduce, reuse or repurpose waste, the Gas Services Perimeter (GSP) identified that hard hats were a product that currently had no recycling solution and were being thrown away to landfill.

Hard hats are essential safety equipment that need to be replaced every three years, which adds up to a significant amount of plastic. Thankfully, most hard hats are made of plastic, so they are easy to recycle.

GSP is the very first perimeter within Omexom to join the partnership with Cory's Electrical to enable the recycling. Hats can be recycled by shredding them into high-quality granules, which can be used to produce products of high recycled content.

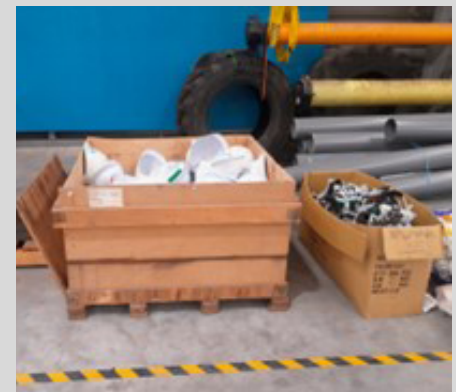


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This initiative is both beneficial for the environment and represents health and safety best practice.

GSP has set up the first hard hat recycling programme for Omexom in all nine of their locations. All the hats have been collected at a centralised collection box at 8 Douglas Alexander Parade, Albany.

The hats are then collected from Albany and delivered to the recycling centre. GSP has sent over a hundred hard hats for recycling through this initiative in the first few months of 2023.



2023

Where do traffic cones go to die?



**CASE STUDY: REDUCE LANDFILL IMPACT**

**Decarbonising the business**

Omexom New Zealand continues to spearhead sustainability initiatives with traffic cone recycling. Old road cones are a silent problem through New Zealand, as thousands of old traffic management cones are thrown away in New Zealand each year. Traffic cones are generally made from PVC material, which can be recycled with specialised equipment.

The Distribution Services Perimeter (DSP) disposes of approximately 100 cones annually, once they can no longer be reused, so the team was looking for new ways to keep them out of landfill.

In a bold move to address the environmental impact of projects, DSP has collaborated with Fulton Hogan to recycle and repurpose traffic cones. This initiative showcases Omexom's commitment to environmental stewardship, and sets a precedent for sustainable practices throughout the electricity distribution sector.

Fulton Hogan collect cones from around the country and sends them to Matta Products, to be made into safety matting for playgrounds and industrial sites. Once they reach Matta Products, the cones are broken into chips, mixed with other PVC recycled products, and melted down.



The initiative also creates a new raw material stream that is used again locally, so that less PVC is imported from overseas.

Fulton Hogan has extended its scheme to all traffic management contractors and sub-contractors, which has allowed DSP to dispose of their cones in this environmentally responsible way.



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Recycling and repurposing folders for educational uses



**CASE STUDY: REDUCE LANDFILL IMPACT**

**Decarbonising the business**

Omexom New Zealand embarked on a transformative journey towards sustainability during its recent renovation at the Mount Wellington office. Omexom prioritised recycling unused office folders, and has taken it a step further by repurposing these folders to benefit our local CSR partners.

This dual commitment to environmental consciousness and community support showcases Omexom's dedication to making a positive impact beyond its own operations.

Recognising the value of repurposed materials, we collaborated with Onepoto School, as well as CMA (Companionship and Morning activities for Seniors Charity), to donate forty folders.

These folders, now given a second life, contribute to the reduction of stationery costs and promote sustainable practices in educational environments.

The remaining folders that could not be given a second life were recycled through TerraCycle's®, Zero Waste Box System.

Everything collected through the Zero Waste Box System is sorted and processed into raw materials that can be reused and

recycled instead of being sent to landfill.

Omexom's dual approach of recycling and repurposing folders, as part of its office renovation, is a testament to the company's commitment to sustainability and community support.

This initiative showcases how corporate responsibility can extend beyond internal operations to positively impact local communities and educational institutions.



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*Omexom staff take a day out tree planting*



**CASE STUDY: REDUCE INDIRECT CARBON EMISSIONS**

**Forest re-generation**

A team from Omexom New Zealand accepted an invitation from Meridian Energy to join them for a day planting trees, in support of Te Waiiau Mahika Kai Trust.

The purpose of the Trust, supported by Meridian, is to promote and restore mahinga kai resources in the Waiiau catchment, and conduct research and projects for the benefit of Te Ngā Rūnanga o Ngāi Tahu.

The planting will help create a native tree corridor between Fiordland National Park and the Takitimu mountains, and support regeneration of native wildlife.

Restoring the native flora provides food and habitat for native birds and fauna in the area, and is also a valuable resource for mahinga kai and rongoā.



The Te Waiiau Mahika Kai Trust's purpose aligns with Omexom's environmental ambition to preserve natural environments.

The planting day also provided an opportunity for Omexom and Meridian to strengthen our working relationship whilst digging up rocks,... lots and lots of rocks!

The planting day also makes us realise that we, as corporate citizens, have huge roles to play in terms of looking after the environment and in mitigating climate change issues.



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*One person's trash is another person's treasure.*



**CASE STUDY: REDUCE LANDFILL IMPACT**

**First ever Market Place Day**

On the 19th of August 2023, Omexom New Zealand held its first ever in-person Market Place Day. Waste is a serious problem in New Zealand, and the typical Aucklander discards a staggering one tonne of waste into landfills each year!

In an endeavour to help curtail this land-fill-bound waste, Omexom trialed the innovative market place initiative. Reminiscent of a flea market, the intention was to strengthen the circular economy by enabling the gifting of high quality second-life goods to new owners who have a need.

The company's employees actively gathered usable yet surplus items from their own homes, which would have been destined to become landfill. Employees were encouraged to collect the items before the event, as well as bring items on the day.

The items ranged from clothing, fairy wings, tricycles, play kitchens to light shades. Market Place Day represents the circular economy in action, as it keeps items in use and intercepts them while they still have a value. This then ensures that they have life beyond their second, third, fourth and beyond use.

Omexom staff were encouraged to bring their families and children along to the event. A children's play area was set up to keep them

amused while the parents "shopped" - for free! It was a good way to avoid the Auckland rain on a cold Saturday morning, as a coffee cart was organised.

This initiative not only reduces landfill pressure but also provokes thoughts and conversations, leading to sustainable practices. Moreover, any surplus items that remain post-event were bestowed upon the Pukekohe Charity Trust.

The Pukekohe Charity Trust will ensure that these items are repurposed to aid those in the community facing hardships, or for the next extreme weather emergency response.

Through this effort, Omexom New Zealand promotes environmental awareness among our employees, cultivates actions taken and grows environmental support within our community.



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*Act for the climate  
by reducing the direct and indirect  
emissions of our supply chain.*





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**CASE STUDY: REDUCE INDIRECT CARBON EMISSIONS**

**Reducing IT churn**

In 2019, the digital sector produced over 4% of the world’s greenhouse gas (GHG) emissions, which accounts for more emissions than the civil aviation sector.

The digital sector also consumes far more resources and has a much greater environmental impact than you would suspect. For example, there were 34 billion digital devices in the world in 2019, but only 4.1 billion digital users in the same year. This means that there is an average of over eight devices per user!

Following that revelation, Omexom New Zealand is taking steps to reduce our digital footprint. Omexom is increasing our staff’s awareness around the impacts of technology, as an important step towards reducing the digital sector’s environmental impact.

We deployed an e-learning training module called the “Green IT Passport”. This is designed to give employees the information they need to better understand Green IT issues.

In February 2023, a member of parent company VINCI Energies’ Sustainable IT team hosted Green IT workshops with 42 members of Omexom’s HR, HSE and IT teams, as well as senior leaders.

This workshop was a more intensive deep dive into IT’s impact on the environment than the e-learning module.

VINCI Energies has also developed an on-line hub dedicated to increasing awareness of Green IT that is available for all Omexom staff. It also released a Green IT magazine to keep the group updated with initiatives and information from around the globe.

Omexom has adopted the VINCI Energies Sustainable IT purchasing Catalogue that recommends purchasing certified sustainable, reconditioned, and higher performing equipment.

Our IT team has also reduced our own purchasing catalogue with our main IT equipment supplier, PBtech, to only include sustainable and energy efficient models of computer equipment.

We have also put in place an action to increase computer life expectancy. Omexom has increased the life expectancy of our computers from three to five years. This reduces the number of new laptops that must be purchased, and therefore, the number of materials consumed, and minerals that must be mined each year.

2023

*Making a WEEE difference  
results in big impact*





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**CASE STUDY: REDUCE INDIRECT CARBON EMISSIONS**

**Reducing E-waste to landfill**

Electrical and electronic equipment waste (WEEE) is the world’s fastest growing waste stream, and in Aotearoa most of it ends up in landfill where it can leach toxins into soil and waterways. In Aotearoa, it’s estimated we produce about 80,000 tonnes a year, of which only 2,000 tonnes is recycled.

Sending e-waste to landfill negatively impacts the environment and human health, and fails to take advantage of the huge benefits that e-waste recycling could provide.

E-waste is mainly leftover technology from people purchasing the latest models, while the old ones are still working. Factors such as the lack of repair parts, or the expense of repairing technology compared to purchasing new models, can also influence decisions.

The good news is that Omexom New Zealand took steps to reduce our e-waste footprint. Omexom has implemented numerous recycling and end-of-life solutions for our electronic equipment.

We put practices in place for old operational laptops to be reused back into the business for training purposes, as well as donating devices to our local communities and CSR partner schools.

Staff can also request to retain their work computers for personal use, once they have reached their five-year limit.

Any laptops that are at their end of life are sent to accredited E-waste recycling company ‘Upcycle’, where they sort E-waste and either recycle it in Aotearoa or offshore with their accredited partner organisations. Omexom has been able to recycle almost one tonne of e-waste!

Omexom has also introduced battery recycling throughout Aotearoa. The batteries are recycled through Upcycle, and collected in special collection buckets in each of our offices and depots.

Old mobile phones can also be collected via RE:Mobile. Phones that are still in good condition are on-sold by RE:Mobile to be reused, and the proceeds go towards Sustainable Coastlines. Any mobiles that cannot be reused are recycled, and over 95% of the material can be recovered.

Omexom is also part of Ricoh’s free Toner Cartridge Recycling Programme. Used toner cartridges and waste toner containers are collected in boxes around the business. 100% of toner cartridges and waste toner containers collected are recycled in NZ.

2023

*Optimise resources to better manage waste reduction, promote the use of recycled materials & low-resource building techniques and material*

**CASE STUDY: RECYCLE TO REDUCE**

**Upcycling end-of-life assets**

Nestled within Omexom New Zealand’s Distribution Albany depot, a well-worn communal space was due for refurbishing. Normally we would purchase outdoor furniture from local retailers, but times have changed.

With some colleagues working remotely and a desire to unite our diverse business units, we aimed to create a haven that resonated with all, nurturing a profound sense of community.

This space wasn’t just about functionality; it was designed as a hub for fun times. Our aspiration was for every team member to connect with it and to feel a sense of ownership.

With sustainability ingrained in our minds, instead of buying new furniture, we delved into upcycling by fashioning bespoke pieces from retired crossarms reclaimed from overhead power lines; components that our crews had put aside rather than dispose of.

Typically destined for mulch, these crossarms, made from robust Australian hardwood, after serving in their original purpose for over four decades were remade into the focal point of the space.



12 **RECYCLE**  
 13 **CLIMATE ACTION**

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Approximately 205 cross arms were saved and repurposed during this project! The upcycling of these cross arms and poles demonstrates our ingrained sustainability philosophies and commitment to the circular economy.

Our staff resonated deeply with the concept of breathing new life into materials destined for waste. The garden, a symbol of our sustainability ethos, struck a chord with our team.

Since the project’s completion, we’ve held a number of staff gatherings already, each abuzz with enthusiasm for the improved environment. As summertime approaches, we anticipate numerous events bringing life to this exceptional space, solidifying its new status, as the vibrant heart of our Albany depot.



2023

*Optimise resources to better manage waste reduction, promote the use of recycled materials & low-resource building techniques and material*

**CASE STUDY: REDUCE INDIRECT CARBON EMISSIONS**

**PE pipe recycling**

Plastic polyethylene (PE) pipe is commonly used for construction and gas supply and is designed to last over 100 years.

This means pipe is not a common product being disposed of in our landfills. It is only dealt with as a waste when there are off-cuts from projects, or when pipe is being replaced.

PE pipe is fully recyclable. Pipe manufacturers across New Zealand have joined forces to provide a recycling solution for their products. They have come together to close the loop to make the product part of New Zealand’s circular economy.



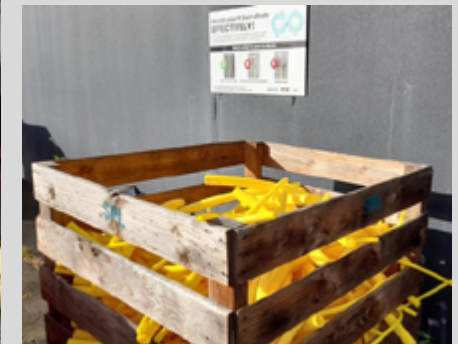
12 **RECYCLE**  
 13 **CLIMATE ACTION**

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The Gas Services Perimeter (GSP) is the first perimeter within Omexom New Zealand to join a partnership for this type of product to enable recycling. The pipe is ground up and recycled into pellets, ready for use to manufacture PE products.

GSP initiated the PE pipe recycling programme for Omexom in their largest locations in Auckland and Hamilton. The PE pipe off-cuts are placed into a collection bin and then picked up and sent to the recycling facility.

The various GSP Business Units recycled 6,110 kgs of yellow PE pipe throughout 2022. This has saved approximately 6,147 CO2-e kg of carbon emissions.



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*Optimise resources to better manage waste reduction, promote the use of recycled materials & low-resource building techniques and material*

**CASE STUDY: INNOVATION**

**Sustainable fleets**

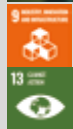
Elevated work platforms (EWP) have been an essential tool in Omexom New Zealand’s operational activities. Traditionally, these platforms relied on the diesel engine of the vehicle to power their elevation systems, which posed challenges in terms of emissions, maintenance, and noise pollution.

However, recent advancements in technology have ushered in a new era for EWPs, with the introduction of electric power take-off units (ePTOs) aka Smart PTOs.

Omexom New Zealand’s Distribution Services Perimeter (DSP) was looking for a reliable option for converting our utility truck fleet to electric. So in 2022, DSP installed a Smart PTO unit into one of its EWPs to trial this innovative technology.

The Smart PTO has been fully operational since January 2023, and has been working for over 6-8 hours per day. The fuel consumption saving was immediately noticeable, once the unit was up and running. The vehicle has seen a 27% reduction in fuel consumption per km over the first 6 months of the trial. We expect this to save Omexom almost 4,800 kg of carbon dioxide emissions a year!

The Smart PTO has also dramatically reduced the idling time of the vehicle. Prior



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to the Smart PTO, the truck was idling for 105 hours per month, but after the unit was installed, it has only been idling around 34 hours month. That accounts for a 67% reduction in idling hours.

On a worksite, crews have also noticed some other benefits of the unit. With the diesel engine turned off, crew members in the bucket can communicate easily with the ground crew, and the local community is not disturbed by the noise or exhaust pollution from the engine. The Smart PTO is charged at the end of each shift, when the bucket truck returns to the depot.

As Omexom increasingly prioritises sustainability and operational excellence, ePTOs have become a game-changing technology. The shift towards ePTOs in elevated work platforms is not just a trend; it’s a transformation that benefits businesses, workers, and the environment alike.



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*Optimise resources to better manage waste reduction, promote the use of recycled materials & low-resource building techniques and material*

**CASE STUDY: INNOVATION**

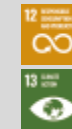
**Sustainable fleets**

Omexom New Zealand has recently purchased two Dilo Piccolo Series Gas Carts, one in the North Island and another in the South Island. These gas handling carts are used to fill, extract and recover SF6 gas from electrical equipment.

Power Services Southern was previously using a gas cart that failed on occasions during use. The main cause of these failures was construction not resilient to transport. This resulted in lost time and small amounts of gas lost to the atmosphere. When faults occurred, a specialist company had to be called in to complete the work within the client’s time frames.

The new carts offer maximum portability and ease of use for quick and efficient work within a zero-emissions operating environment. Our team used the new Southern Dilo Gas Cart at the Manapouri Hydro power station to de-gas a circuit breaker, and refill the replacement, when installed at short notice.

The cart is enclosed in a specially-built trailer, allowing transport with a reduced space footprint, and is fully enclosed and self-contained. All the necessary bottles, gauges and special tooling is stored and transported within it. All new equipment is moved via the self-contained trailer. The increased mobility allows the unit to be left on site while the tow vehicle is used else-



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where, and then attached to an alternative tow vehicle driving to the next gas service job.



With a distributed workforce over a wide geographic area, this cart reduces transport cost, return trips and carbon emissions. All the parts on the cart can be recycled and to increase circularity, and help Omexom and the client reduce waste to landfill.

This new cart offers many benefits:

1. Removal of SF6 to achieve >99.99% gas recovery
2. Efficient completion of work without releasing gas to atmosphere
3. Serviceable parts with filters that are returned for recycling
4. Shorter filling/extraction and recovery times equals reduced outage times and increased network stability
5. Easily transported from base to worksite
6. Bespoke trailer with unique springs and shock absorbers to cut vibration and shock

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*Transitioning to a greener fleet*



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**CASE STUDY: INNOVATION**

**Sustainable fleets**



As the world continues to grapple with the challenges posed by climate change, the need for sustainable transportation solutions has become increasingly urgent. Electric vehicles (EVs) have emerged as a promising alternative to traditional internal combustion engine (ICE) cars, offering numerous environmental benefits.

Recognising this potential, Omexom New Zealand has put into place an EV strategy, with the ultimate aim of reducing emissions and of transitioning towards a low carbon energy future.

The latest additions to our EV and hybrid vehicles of 65 at the beginning of 2023, include three LDV utes and three Peugeot electric vans in the North Island, and a re-allocation of our large Nissan people mover to our Manapouri site in the South Island.

Trialling electric vehicles serves as a pivotal and logical step towards a more sustainable business by embracing the future of transportation.

The environmental benefits, fleet operations optimisation, potential cost savings, and positive employee engagement make sense to Omexom as a responsible corporate citizen, and as an employer, while contributing to the collective efforts in reducing emissions and fostering a cleaner and greener world.

As the global energy sector transitions towards renewable sources, EVs also become even cleaner over time as electricity generation becomes greener. One of the primary motivations for Omexom to trial EVs is the quantifiable environmental benefits.



2023

*Omexom New Zealand explores the world of EVs*



ENVIRONMENT

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**CASE STUDY: INNOVATION**

**Sustainable fleets**



(continued) EVs produce zero tailpipe emissions, resulting in a substantial reduction in operational greenhouse gas emissions.

While we acknowledge that EVs have much higher production emissions associated with them, we know that over the lifetime of the EV, the total emissions are far less and will reduce even more once EV battery technology and recycling methods improve.

As battery and future technologies, such as green hydrogen, continue to improve and are implemented, we are excited by the potential to transition our fleet to more sustainable solutions.

Being a power services provider, sustainability is never far from our minds. By embracing sustainable practices, Omexom recognises our environmental responsibility as prescribed in our parent organisation VINCI Energies' environmental ambition pillars.

We believe employees also see the value of EVs, and adopting them helps foster a sense of pride and engagement among staff members, who will appreciate their employer's efforts towards sustainability.

During the trial period, Omexom will collect and analyse data on EV performance, charging patterns, and overall usage compared to our ICE vehicles. This information can help optimise fleet operations, identify challenges, and inform future fleet expansion.

Telematics and fleet management software can be leveraged to assist in monitoring EV performance, battery health, and driver behaviour, enabling Omexom to assess the viability of scaling up our EV fleet.



2023

*Optimise resources to better manage waste reduction, promote the use of recycled materials & low-resource building techniques and material*

**CASE STUDY: INNOVATION**

**Sustainable fleets**

Omexom New Zealand has seven vehicles that use AdBlue, as part of its sustainable fleet initiatives. Over 200 litres of AdBlue was purchased in 2022, helping to contribute to a lower emission fleet.

AdBlue is a fluid which is sprayed into a car's exhaust system to reduce the nitrous oxide emissions of diesel engines. The usage of AdBlue in modern diesel cars coincided with stricter Euro 6 emissions standards that have been in effect since 2016.

AdBlue makes it much easier to lower the emissions of diesel vehicles, so they comply with these environmental regulations. AdBlue is supposed to reduce NOx emissions by up to 90%, compared with non-SCR vehicles.

AdBlue is a colourless non-toxic liquid. It is a solution of demineralised water and urea. Urea is found in urine, but the urea found in AdBlue is very pure and is a higher grade



ENVIRONMENT

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that is even used in cosmetics and glue.

AdBlue does not work by mixing with diesel fuel. Instead, it works with the exhaust gases as they come out of the engine. It has its own storage tank within the vehicle, with its own inlet, and is sprayed into the exhaust stream.

AdBlue will then react with the nitrogen oxide in the exhaust and via the selective catalytic reduction (SCR) converter, it transforms the NOx into nitrogen and pure water.

2023

*The beauty of recycle and upcycle*

**CASE STUDY: REDUCE LANDFILL IMPACT**

**Less haste to waste**

Omexom New Zealand is taking a significant step towards sustainability, addressing environmental concerns and reducing textile waste by sending its used uniforms and PPE to Upparel for recycling.

Textile waste is under the microscope, as most unwanted clothing in New Zealand ends up in landfill. Corporate uniforms and old PPE too often end up in landfills, adding to the growing problem of textile waste and shrinking landfill capacity.

Recognising this challenge, Omexom sought to find a sustainable solution that aligns with their core values. Upparel is a company which operates in New Zealand and Australia, and takes textile waste and recycles it into sustainable resources.

Upparel commits to reusing, repurposing, recycling 100% of the textiles it receives. Upparel recycles textiles and turns them into sustainable alternatives to materials such as polystyrene, fiberglass and cellulose.

The Upparel process, not only enables the recycling of old textiles, but the end products are completely circular, so they can be recycled and reused endlessly.



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Omexom's old PPE will be turned into pillow stuffing, wadding for quilts, wall and ceiling insulation, acoustic panelling, foam and most importantly, the stuff for dog beds!

Omexom is now sending our PPE and uniforms that are at the end of their life, which is unable to be reused. At the start of October 2023, Omexom Distribution sent our first load of PPE to Upparel, weighing 30kgs!

Through this process, Omexom hopes to divert approximately up to 2000kg of old garments from landfill. This initiative showcases Omexom's commitment to the circular economy and environmental stewardship.



2023

A celebration of environmental awareness and creativity



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**CASE STUDY: CLIMATE AWARENESS**

**Focus on the environment**

Omexom New Zealand hosted a successful Environment Day Photo Competition to celebrate VINCI's 4th Environment Day in September. This event promotes environmental awareness and showcases the incredible talent and creativity in team.

Omexom New Zealand is deeply committed to sustainability and environmental responsibility. The Environment Day Photo Competition was designed to encourage our employees to express their love of the environment through still images.

The competition received an overwhelming response, with 58 entries pouring in New Zealand-wide, and the submissions did not disappoint!

The photos covered native forest conservation, upcycling, sustainable infrastructure, and natural landscapes. The event was so successful, we even had entries from VINCI Energies visitors, who happened to be in New Zealand.

*SUPREME WINNER - CHICANE NEWCOMBE  
Pot of gold at the end of Manapouri*



2023

A celebration of environmental awareness and creativity



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**CASE STUDY: INNOVATION**

**Focus on the environment**

(continued) A panel of judges carefully reviewed the submissions. The judging criteria included originality, composition, message, and overall impact. Every entry was evaluated for its aesthetic quality and also for its power to convey a compelling environmental message.

After rigorous deliberation, the judges selected six outstanding photographs as the winners. All the submitted photographs were featured in our internal and external communications.

*Support Perimeter - TINA HILL  
Eco-friendly reusable household cleaning tools*



The Omexom-VINCI Environment Day Photo Competition was about more than awards and recognition. It also served as a platform to engage our employees in a collective dialogue on environmental responsibility.

The urgency of environmental preservation was conveyed, important conversations started, and actions initiated within and beyond our organisation.

*Infrastructure Perimeter - BARRY SMART  
View across Lake Benmore*



*Transmission Perimeter - MATTHEW DICKIE  
View across Lake Benmore*



# OMEXOM

VINCI  
ENERGIES

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