Composting Food Packaging at Events Trial 2.0 Summary



Introduction

We, the Christchurch City Council - Events Production Team (EPT) are passionate about everything events, and are enlisted with producing events for the people of Christchurch and our city's visitors. Our events are free to the public and we deliver a varied calendar of events which has something for everybody.

Individually we are driven by improving our sustainability and we've now brought this ethos into our work to improve how we deliver events. We love bringing these events to life, however felt we could make positive change by making our events more sustainable and minimising the effect they have on the natural environment.

Imagine the volume of waste that is generated at every single event held in our city and sent to landfill - daunting isn't it! Previously, this is just what would happen following every event produced by the Christchurch City Council's EPT as well as numerous other externally produced events which take place in Christchurch every year. The environmental impact of this was no doubt substantial and there was a need for change to take place. As a majority of the event waste was made up of food and disposable packaging it was the team's belief that such waste could be diverted away from landfill and into other waste streams, namely composting.



CFPE Trial 1.0 Recap

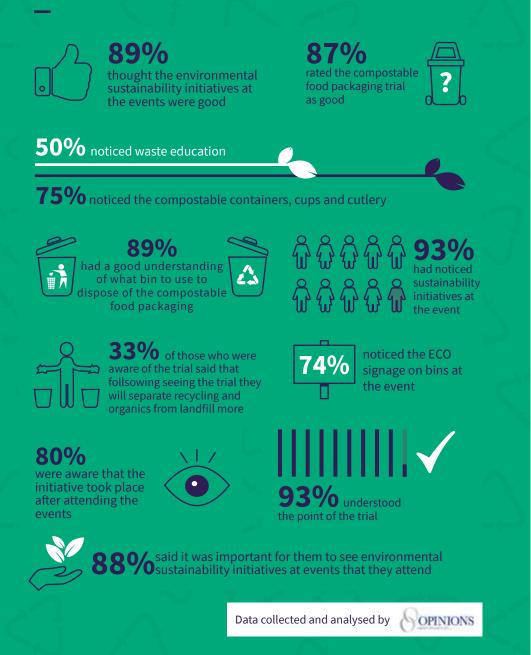
Composting Food Packaging at Events (CFPE) has originated from the team's wider Event Sustainability Framework. The entire Framework outlines action plans to target several areas of interest in sustainability that the EPT can work on. Waste management is one of the seven areas of focus for the Framework.

The first CFPE trial took place across three large public events in February 2017. The three events included two Council-produced public events (Sparks and Christchurch Lantern Festival) and one partnership trial event with Christchurch Night Noodle Markets. Before this initiative, all waste from events was most likely sent to landfill. There was no composting stream available citywide for events and even if there were yellow bins at an event all recycling was too contaminated to be accepted, unless hand sorted.

CFPE Trial 1.0 involved training over 100 food vendors to use only compostable packaging from one approved supplier - Ecoware Packaging. For the first trial there was a specific Kraft range that was permitted to be composted at the local composting facility. Food vendors at these events were audited onsite and all waste was hand-sorted to ensure minimal contamination to compost and also a clean recycling stream. There were two waste sorting companies involved with these three events in this initial trial; Our Daily Waste and Closed Loop. The three events had an estimated 190,000 attendees between them and diverted 12 tonnes of waste – which amounted to a total of 61% of all the waste generated from the three trial events.



What the public thought of Trial 1.0



What we've changed – Trial 2.0

After a successful CFPE Trial 1.0 the Council then extended the range of compostable food packaging to four suppliers, increasing the range of packaging for the food vendors. Vendors could order directly from these four packaging suppliers or through a distributor in the city who stocked the CFPE approved range. We also went from three events to 43 internally and externally produced events over April 2017–May 2019.

Over the following two years the EPT worked hard to assist and advise external events how to participate in the the CFPE protocol. All of the organic compostable food packaging products at these events were hand sorted and sent to the Living Earth composting facility.



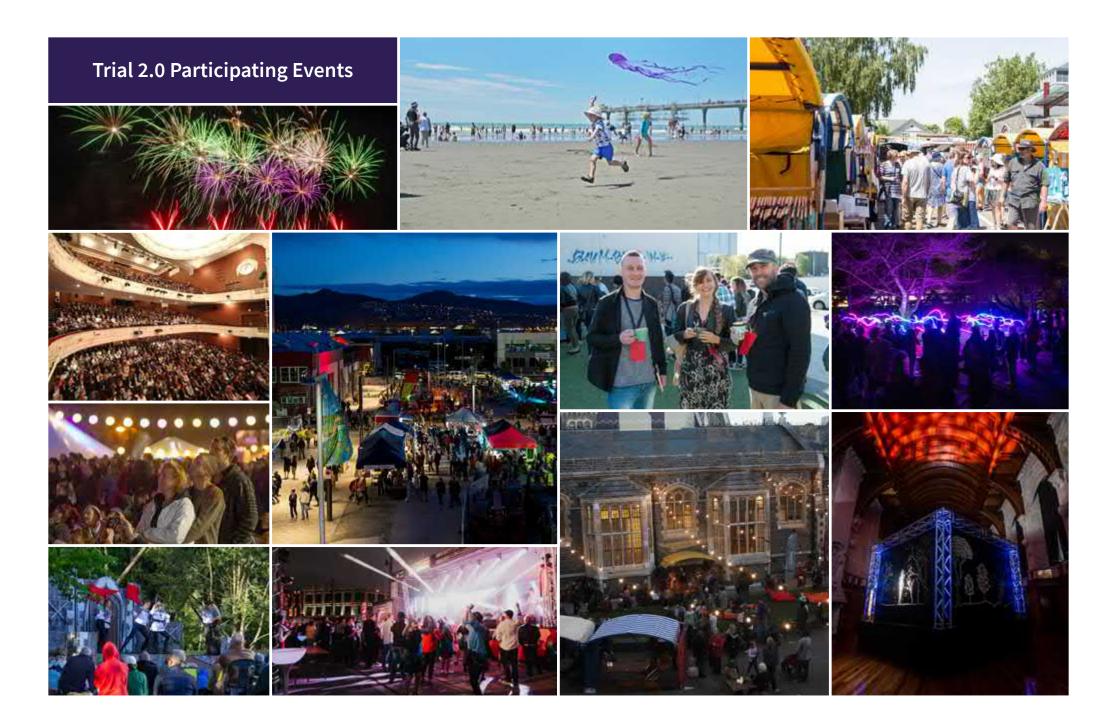
Part way through CFPE Trial 2.0 the EPT made the decision to take on a Sustainability Partner as a full provider of both infrastructure and waste sorting services. Total Waste Solutions came on board and was responsible for all aspects of CFPE at CCC produced events as well as a number of other CFPE events. They have also invested in purpose-built infrastructure to support CFPE.

What can actually be composted here in Christchurch?

Most disposable food packaging in the market which is labelled as "compostable" often has a thin lining, which acts as waterproof coating and is made of a material known as "bioplastic". One particular bioplastic commonly used and made from corn starch is called PLA (poly-lactide acid). Although PLA bioplastics are certified as commercially compostable to multiple international standards, there are still issues with composting them in facilities which produce certified organic compost in New Zealand, called "BioGro" certified facilities. PLA bioplastic lacks the ability to attain the local BioGro certification that is required by the commercial composting facility in Christchurch, a major hurdle for event organisers to overcome when it comes to waste management.

Although any CFPE approved packaging can be purchased by the public, they must still go in your red bin at home. The use of these products by participating CFPE events is in a controlled, managed event situation. If they go in your green bin, we have no way to distinguish these products from the unacceptable PLA lined products and risks having your bin stickered or not collected.

For a manual of all approved CFPE Trial 2.0 products please email **Shanti.Campbell@ccc.govt.nz**



CFPE Trial 1.0 Diversion Rates

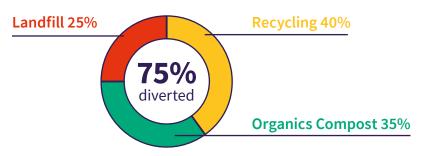


Trial 2.0 Event Results List

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Lyttelton Festival of Lights 2017	76%
Social Enterprise World Forum 2017	81%
Streets For People 2017	63%
City of Cycles 2017	88%
Evolocity 2017	78%
South Island Wine & Food Festival 2017	75%
Arts Centre Market - Summer Sweetener 2017	73%
Live in the Park 2017	68%
New Year's Eve 2017	59%
Kite Day 2018	28%
The Great Kiwi Beer Festival 2018	78%
Nostalgia 2018	79%
Sparks 2018	77%
Night Noodle Markets 2018	78%
Christchurch Lantern Festival 2018	73%
Arts Centre Market - Easter Markets 2018	75%
Lyttelton Festival of Lights 2018	73%
Arts Centre Market - Matariki Markets 2018	73%
Botanic D'lights 2018	58%
Arts Centre Market - Midwinter Carnival 2018	73%
TEDxChristchurch 2018	89%
Meet in the Middle 2018	65%

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	Deep South Lazy Sundays 2019	88%
New Zeeland Dance Awards 2010 C00/	Summer Theatre 2019	60%
New Zeatanu Dance Awarus 2019 60%	New Zealand Dance Awards 2019	60%

Trial 2.0 Summary Results





87 tonnes diverted from CFPE Trial 2.0



100% of event organisers felt quite well or very well informed about the CFPE process



100% of event organisers found CCC staff support for CFPE as either supportive or very supportive



100% of event organisers felt the initiative was either important or very important to the environment

How did the event organisers rate participating in CFPE trial 2.0?



How did the event organisers rate their experience in the CFPE trial 2.0 overall?



68%





24%





Not So Good Nor Bad 7%

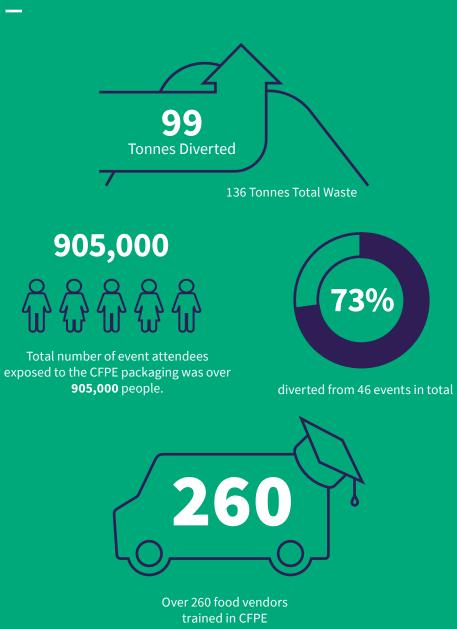
Unpleasant 0%

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How did the event organisers rate the cost of implementing requirements for CFPE trial 2.0?



Results from both trials:



Why events participated in CFPE...

"We want to be a waste "Keep saving the planet, "To reduce the impact "It has been great to be part of it and see of our event on the conscious event." one event at a time." such great results." environment." "We want our "To help build success "...Being part of mākete to be kind "Because even if you case studies so other make a little effort CFPE supports and to Papatūānuku." large events can see expands on our existing reducing waste it can it is possible and sustainable practice." it's the normal way go a long way." to run events." "Leading by example." "To reduce the overall "Council Events should waste that the event lead by example and "Because it was only "We wanted to sustainability should produces and educate marginally more make our event as the attendees around be at the forefront expensive than standard environmentally friendly sustainability." of event delivery." waste management as possible and needed plans but had a support to do that." big impact on the environment..." "Event has a sustainable "No brainer! Should focus so there was be compulsory "Its a great initiative, for all events." a natural fit." I personally feel "Help reduce our proud to be part of it festival footprint." because it gave me an opportunity to be part of "It's great for the "The opportunity to an initiative which cares build a diverse range of future of events. Was for our environment and case studies and oneasily done so will be "It is gaining future of our planet." easy to do it again." boarding new vendors momentum.' to this process."

Trial 2.0 Case Study #1 Nostalgia Festival 2017–2019

Produced by: Wunderbound Lto	b	Waste Sorting Co Our Daily Waste	mpany:	4500 attendees 1 day concert style event
2017	2018	2019		

Nestled in the heart of Heathcote Valley, Nostalgia unites the community through the magic of music, showcasing a curated selection of feel-good New Zealand and international artists. The vintage festival streets offer incredible local food, craft drinks, roving theatre, markets and more.

Nostalgia's values are simple: we strive to create a unique festival that integrates the Christchurch community through celebrating collaboration, creativity, event sustainability and quality music.

Nostalgia aims to have as minimal effect on the land as possible, continuously working towards implementing and trialling new sustainable initiatives. The Festival encourages festival-goers to cut down on transport by using ride-sharing, private or public buses, and of course biking - join our Bike Gang.

The festival has teamed up with Our Daily Waste for over the last six years to work with festival vendors to minimise and control festival waste. Reusable cups and wash stations are provided throughout the park.

"We've always been committed to event sustainability, but in the beginning it was tough as the public were less engaged and resources and experience were limited. Thankfully, as the event has grown so has our understanding of our footprint, plus the public have become more aware of event waste and are now demanding more conscious festivals. We will continue pushing new initiatives to make the event as sustainable as possible."



Trial 2.0 Case Study #2 TEDxChristchurch 2018

2	0 1 3	2018 saw 330 attendees, break out conference style event
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TEDxChristchurch is an event that brings together leading local, national and global thinkers and doers:

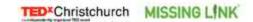
"Keep saving the planet, one event at a time"

- To encourage wonder and exploration
- To connect possibility with practicality
- To serve as a bridge between Christchurch and the world
- To provoke, remind, delight, uplift, inform, and inspire.

TED is a global platform devoted to Ideas Worth Spreading. TEDxChristchurch is an independently organised TED event that shares the best of the world with Christchurch and the best of Christchurch with the world.

Our core values celebrate local business, underpinning sustainability and innovation. Each year we aim to improve the experience for our attendees and reduce our total waste consumption. After increasing in size year after year, TEDxChristchurch took an intimate turn across 2017-18, dramatically reducing in event size and re-evaluating the offering.

We encouraged guests to bring their own water bottles and reusable cups and provided a filtered water trailer and mugs for use on site with a wash station supplied by our Event Partner, Hummingbird. Our Catering Manager, Richard Till designed food options to be individual portions, grab and go style, served on trays by our friendly volunteer team. Richard Till catered to waste free, and also took away all waste for his own compost bin so it was a nice closed loop/zero cost system.



Trial 2.0 Case Study #3 Lazy Sundays 2019

Produced by: Christchurch City Council Events Production Team Waste Sorting Company: Total Waste Solutions

15,000 attendees over 5 Sundays, concert in the Botanic Gardens





Lazy Sundays is a Council produced series of free Sunday summer concerts in our award winning Botanic Gardens. In 11 years this event has grown to be loved by our performers and very popular with the crowds of all ages and ethnicities.

This was the first year that Lazy Sundays participated in the CFPE Trial with our sustainability partners – Total Waste Solutions. This event was able to achieve incredibly high diversion rates and the team feels with some more effort in coming years this event can be a landfill free event!

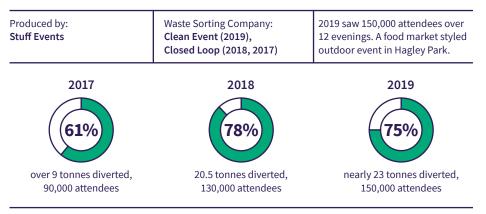
"We have got so close to achieving zero landfill waste that we'd like to have that as our future target with the support of a CFPE Trial. This is also a great way to show leadership in sustainability to an influential audience."

The Events Production Team at Christchurch City Council have led the CFPE Trials and have invested their time and energy into helping make other events in our region more sustainable. Sparks, New Year's Eve, Treetech Fireworks Spectacular, Botanic D'lights, Summer Theatre, Kite Day and South Island Lantern Festival (in partnership with Christchurch NZ) are other events that the team produces which participate in the CFPE trials.

The Council's Event Production Team will continually try to improve on all areas of event sustainability working under a framework to challenge ourselves. We want to set an example to other events and show that any event of any size, whether it be 500 or even 50,000 attendees can be produced to minimise the impact we have on our environment.



Trial 2.0 Case Study #4 Night Noodle Markets 2017–19



The Night Noodle Markets brings communities together to celebrate and eat delicious Asian food over the summer months in New Zealand and attracts all kinds of people, including keen foodies, families', young professionals and friends for a fun night out. A replica of the ever-popular Australian Night Noodle Markets (run for more than 20 years), the New Zealand Night Noodle Markets has been operated by Stuff Events since 2016. Stuff is committed to running sustainable and environmentally-friendly events.

Earlier this year Night Noodle Markets won the NZEA's Award for NZ's Best Sustainable Event. Stuff Events and Sponsorship Director David Blackwell is thrilled with the win, which recognises the ever-popular travelling food festival's achievements across a number of sustainability initiatives.

ARKETS

"It's fantastic to receive this accolade and to celebrate the amazing work of the team. I hope we can inspire more events to prioritise sustainability practices like we have, and reduce the carbon footprint of events across New Zealand."



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NO)DLE stuffevents cleanevent CLOSED LOOP

Trial 2.0 Case Study #5 Fat Freddy's Drop 2019

Produced by:	Waste Sorting Company:	6,000 attendees concert style,
Team Event	Total Waste Solutions	one day event in Hagley Park
2019	·····	

A powerhouse of Kiwi and International musicians teamed up as part of their huge 7-stop Summer tour and brought the good times to Christchurch. Freddy's incredible tour bus buddies included: Unknown Mortal Orchestra (US), The Black Seeds and Ladi6 were joined on tour by DJ Norman Jay (MBE), all the way from London, U.K. plus support from Dillastrate.

Team Event produce quite a few of the crowd favourite events in the Christchurch Summer calendar. Over the last two years they have worked on having all of their events and festivals participating in the CFPE trials, like the South Island Wine & Food Festival, Electric Avenue Music Festival and The Great Kiwi Beer Festival. Team Event partnered with Total Waste Solutions and have diverted over 30 tonnes of waste across all of their events. A big part of the struggle from these events are the waste produced by wine and beer stall holders. There's a massive amount of education that needs to go into this and something the team is continuously working on!

'Participating in CFPE has helped Team Event to understand the many ways that responsible management of our numerous waste streams can be achieved. Support from the Christchurch City Council and Total Waste Solutions has been central to the success of this program to date. Their efforts to create clear policies and procedures and educate our event participants (exhibitors and attendees alike) on the benefits of CFPE have helped us achieve an 87% diversion rate on this event, which far exceeded our expectations. Team Event continues to explore opportunities to reduce the environmental impact of major events in Central Christchurch, kick started by our learnings from the CFPE 2.0 Trial program.'



Benefits Of The CFPE Intiative

- Improved levels of customer satisfaction for Council events.
- A reduction in solid landfill waste arising from Council, private events and facilities.
- Positively responding to public concerns around plastic and waste.
- Developing an approach applicable to other cities and events throughout NZ.
- Encouraging environmental awareness and behaviour change for residents and visitors.
- Encouraging environmental practices in local businesses.
- Strengthening relationships between the Council, communities and local businesses.

- Helping to deliver on Council Policies such as Waste Minimisation Plan and the Resource Efficiency and Greenhouse Gas Emission Policy that challenges all parts of Council to reduce waste.
- Strong alignment with the Councils Strategic Framework such as Healthy Environment, Liveable City, Climate Change Leadership and Sustainable 21st Century City.
- Directly responding to the state of "climate emergency" declaration made by Council and ECan.



Waste Sorting Companies Involved



totalwastesolutions.co.nz

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Total Waste Solutions

Total Waste Solutions are a Christchurch owned and operated waste company specialising in landfill diversion innovations. Our partnership approach focuses on

working with our customers to help minimise waste and increase recycling, composting and reusable solutions. Providing education and auditing, we provide a full waste service for both residential and commercial customers as well as onsite waste sorting for events. As the Sustainability Partner for the Council Events Team, we have invested in purpose-build infrastructure to support onsite efficiencies for CFPE, helping the initiative to be economically sustainable for both Council-produced and other major events taking place in Christchurch.



Our Daily Waste

Our Daily Waste is a local waste prevention consultancy that specialises in providing event recycling systems, with more than 75 Canterbury events having benefited from our services. Because most event recycling is too contaminated and is sent to landfill, our policy is to hand-sort all waste, with the guarantee that it will be accepted at the recycling plant. In 2018 we began adding another service – Our Daily Wash – for events wanting to go more sustainable whereby we lend out reusable

cups and then wash them. In addition to events, ODW

also supplies waste reduction advice and customised

supplies recycling sorting services to assist organisations in increasing recycling and decreasing waste overall.

recycling signage to schools and businesses, and

ourdailywaste.co.nz



closedloop.com.au

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Closed Loop

Based in New Zealand, Australia and the United Kingdom, Closed Loop has more than 15 years' experience providing comprehensive environmental solutions across aviation, hospitality and health, catering, events, venues, cleaning and recycling management.

We achieve this through expertise in integrated disciplines including; recyclable packaging; bespoke or off the shelf, waste auditing, resource management, organics recycling, education and production of training videos to share our clients' environments stories, cleaning, facilities management and waste infrastructure, consultancy and resource recovery and communication campaigns that engage both internal and external stakeholders. Sustainability defines who we are and what we do. And we love what we do!

Clean Event Clean Event

cleanevent.co.nz

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Clean Event was established to provide superior waste minimisation results for events. The company provides both large and small events with a complete waste management and cleaning solution, including bins, staffing, on-site sorting, waste disposal and pre-event waste minimisation consultation and advice.

Clean Event has helped events throughout the country achieve their waste minimisation goals and now diverts over 200 tonnes from landfill from events annually.

What does the future CFPE look like?

The CFPE initiative has been viewed as a success by food vendors, event organisers and the wider public. This has changed the landscape of how we produce events in our city. The CFPE initiative is growing rapidly. More and more events internally and externally want to participate and now facilities and other communities in Christchurch are also wanting to make more sustainable choices.

Currently this initiative has been staffed from existing roles within the Events Production Team on top of current roles. The growth of CFPE and other sustainability opportunities means that additional resource will be required to further grow and futureproof CFPE. The team are now working on finding that role and hope that the initiative will be made permanently available to events in Christchurch going forward. This staff member would coordinate CFPE externally, enabling other event organisers, communities and hopefully facilities in the city. It should be noted that if this resource cannot be found then the Events Production Team will be unable to maintain their involvement and support for external event organisers. Throughout this research and development, as well as taking into consideration the recent Council declaration of a climate emergency, the team are also looking at how the Council can develop this solid waste initiative into a full sustainability approach. We're looking at other environmental factors aside from solid waste that is generated from events, like water usage, power and other factors that generate greenhouse gas emissions.

Through the implementation of the CFPE initiative, Christchurch City Council has the potential to become a leader in sustainable event and urban policy. It gives us an opportunity to show that a Council led-initiative like this can result in the strengthening of relationships between communities and local vendors. This approach of involving all aspects of councils, external event organisers, waste management suppliers and packaging companies is the first of its kind - a significant accomplishment for our city. Other facilities, communities and venues are looking at what we're doing and how we're doing it. Following the development of the CFPE initiative it is hoped that other Councils from around the country and the world will follow suit and join us in delivering more sustainable events.

The CCC Events Production Team would like to thank the support from the Canterbury Joint Waste Committee for funding additional costs to waste sort at the CCC internaly produced events. This funding has allowed the team an opportunity and space to further push and future proof the initiative and find ways to make CFPE economically and environmentally sustainable.

Sustainable Supplier Case Study Fahey Fencing Hire



Ben Gorst	
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021 334 956 03 343 9960	f 0
General Manager, Fahey Fence Hire Ltd	

Fahey Fence Hire is a Carbon Zero Certified Organisation. Why did Fahey Fence Hire decide to opt in for this certification?

Five years ago we felt that we needed to rethink how we operate as a business and also how we are placed on the landscape around our other competitors. Specifically what point of difference does our business have and how do we operate? First off we decided as a team that we would become paperless. That five year goal then triggered some thought around our carbon emissions. At the time a member of staff was studying BA in Management and had completed paper on sustainability. We decided that this was a great opportunity to tie that into our paperless mission. We knew could improve our systems by going weight based and this would lead to less paperwork, meaning less errors and ultimately less paper. That's when we looked at the CEMARS programme with Enviro-Mark Solutions.

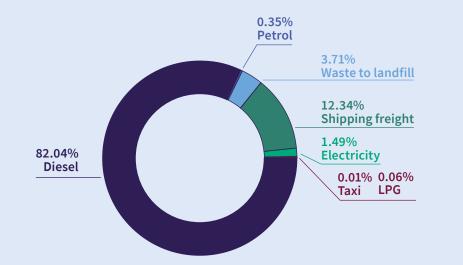
What does this certification mean to you?

It simple terms it means we're constantly challenging our thought process around the environment and sustainable practices. We wanted to offer a different experience for our customers, based on products and how we deal with our customers operationally. Ultimately it advanced our decision making around system changes, which lead to how we communicate with our customers. What was involved in the process of gaining this certification?

The CEMARS Programme is where you carry out a full carbon zero audit without offsetting your emissions. Looking at how much carbon you actually produce. When we signed up to the CEMARS programme with Enviro-Mark this also committed us to our paperless goal. Which we have almost achieved and continue to work on.

We are measured by a main KPI, which is total emissions, divided by our total turnover (\$). During each year we capture data in relation to our carbon emissions. This can range from how fuel we are using (the obvious one), how much waste we produce, to how much freight is needed to operate our business e.g. getting our stock from overseas. This gives us a figure. The total emissions data is collated through using tools like external websites, which can provide your carbon emissions when you enter your freight data, taking into consideration container shipping and travel etc. If we are increasing in turn over then there should be a noticeable decrease in emissions. Because you are constantly trying to come up with more efficient ways of doing things.

Fahey Fence Hire operational GHG emissions sources



We can then offset our total carbon emission weight by the purchasing of carbon credits, as a dollar amount is associated to a carbon emission weight. Those credits can be all sorts of different schemes from windfarms in China, to the local Banks Peninsular programme working on sustainable forestry, which is one we currently support. It's basically like online shopping, you can go in and buy credits from schemes listed. Any carbon credits on shore in New Zealand are a lot more expensive than from overseas. We could have bought a lot more and done things a lot cheaper, but we prefer to put our money towards New Zealand and local schemes. That way we know the money is going back into our community and improving environments within New Zealand.

There is a cost of being a part of the programme, which covers your audit process, it's like paying a membership. It is a big cost for the size of business we are. But without being a part of this programme we wouldn't be so dedicated and committed to making the changes. Not only are we are committed because we are spending the money, but we have made time commitments to making these changes because you are held accountable to meeting your KPI's each year. You will have different KPI's each, which are targets that you set and must reach. The purpose of the programme is to reduce your carbon footprint and the KPI's hold you responsible for this, so you can't just buy your way out every year. You can't buy sustainability. We have seen advantages in other areas that offset that membership cost. From a Health and Safety perspective we are often asked by clients if we have an environmental plan or a sustainable policy. Or when we are tendering for big jobs, or talking to influential people in our industry we are proud to be able to state that we area a Carbon Zero certified company. We hope that would provoke some kind of thought in their decision making and processes.



Enviro-Mark as a group has been really positive, they have suggested to help us find ways of finding new KPI's that are more representative to our industry, which is currently something that we are working through. Even within the programme not only are you encouraged to have thought process around your carbon footprint, even deeper with your KPI's if they are not suited to your business they will have find another way to measure this. For example, total carbon weight used, divided by total man hours worked, would show efficiencies in a different way. We may have had less people working, reduced carbon emissions per person. It just shows that there are many different ways of measuring your efficiencies in reducing your carbon footprint and Enviro-Mark are willing to help you find your best measurables.

How does this certification change your day to day business and practice?

Initially we tried to make changes on mass. This was hard at first, but these changes are now part of our everyday practice e.g. separated bins out the back of the building instead of only one general bin. That has made a huge difference to our reduction in landfill every year. Annually we make changes and then in time they become business as usual.

At our premise here in Christchurch we have installed a biodiesel tank, which is partially made from canola oil from your very own fish and chip shops, supplied to us by Green Fuels NZ Ltd. Our work trucks run 10% on biodiesel mixtures as well. Our two new staff vehicles run on 100% biodiesel from this onsite tank and the vehicles also have the best rating you can have for emissions. When we all think of diesel vehicles growing up we remember noisy and smoky fumes everywhere - these new vehicles running on biofuel are completely different: quiet and clean. We can get around 760km out of a 50L tank. Eight per cent of our vehicles on site are also under a certain age too. We are pushing these changes from a Director's perspective and making the right choices for a sustainable business.



Even if you just make small changes within your company – I totally support that. But with this Carbon Zero programme there is accountability, which means there will ultimately be better outcomes.

Does Fahey Fence Hire have any future goals around sustainability?

We plan to stay on the Carbon Zero plan, maybe find some different KPI

measurable that are specific to our company and that area of trade. For me, one of my personal goals of the business is that we are not just a company that has just "purchased" a carbon zero status, but a company that is a leader in that area-regardless of how small we are!

Where can companies go to find further information about becoming a Carbon Zero Certified Organisation?

www.enviro-mark.com

Ben is happy for other companies to contact him and shout him a coffee for some advice.





EcoCentral

ecocentral.co.nz

EcoCentral is a major processor of waste and recycling for Christchurch and the surrounding districts.

EcoCentral operates the following facilities:

- The EcoSort, a large semi-automated plant on Parkhouse Road which processes recyclable materials received from the yellow bin recycling in Christchurch and surrounding Canterbury region, commercial and event recycling.
- Three EcoDrop facilities for resource recovery at the drop off area at the recycling centres and refuse disposal either via the red bin refuse collection or directly from commercial operators or members of the public.
- The EcoShop is located on Blenheim Road and is the resale, reuse outlet for recycled items, providing an economical and sustainable option to buying new.

Do you know what you can recycle in your Kerbside yellow bins?

For more info visit **ccc.govt.nz/recycling** Or download the app: **Christchurch Wheelie Bins**

The Christchurch City Council would like to thank the organisations, events, businesses and communities involved with the Composting Food Packaging at Event Trials.

If you have any questions about the Trials or would like to be involved in the future please contact Shanti Campbell at shanti.campbell@ccc.govt.nz.



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