



2022 SUSTAINABILITY REPORT

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FROM THE DIRECTOR



Our global environmental challenges continue to mount. Rather than being a threat looming on the horizon, it feels like they are upon us now, as more extreme weather events continue to devastate Aotearoa New Zealand. While this has caused tragic loss, it has also helped to mainstream sustainability issues and increase the sense of urgency for action. There is good work being done across government, business, and civil society, and indeed at this university. However, I always ask myself—are we doing enough, fast enough?

At Te Herenga Waka—Victoria University of Wellington, we continue to strive to maximise our contribution to a sustainable future, despite a very challenging year in 2022. The impacts of the pandemic and the cost-of-living crisis meant student numbers were down, budgets were tight, staff were working extra hard to support online learning, and students were having to pick up more paid work on top of their studies. In this context, it has been challenging to grow our sustainability impact, but we have continued to make good progress.

During 2022, we developed [Te Parahia](#), our Sustainability Outcomes Framework, with the help of hundreds of people from across the University's community. It builds on the extensive work already being done by our staff and students and provides a clear direction and a set of target outcomes that everyone in the University's community can choose to support and work towards, in the areas most relevant to them. It draws inspiration from our [Living Pā](#) project, which brings together mātauranga Māori and sustainability philosophies, and provides an exemplar for how we can fulfil our responsibilities as kaitiaki.

Alongside the development of Te Parahia, we continued to deliver a vast amount of sustainability work across the University. The joy of compiling this report each year is that it provides the opportunity to reflect on our cumulative efforts and assess our progress. So, are we doing enough, fast enough? No. There is plenty more to do, but we are making a positive difference.

Noho ora mai

Andrew Wilks
Manutaki, Toitūroa—Director, Sustainability

AT A GLANCE

= 275th

of the world's **18,000** universities*

TOP 1%

of the world's universities for **18 subjects**
and in the **top 2% of universities overall**

**In the world's top 100
for 10 subjects***

Development Studies, English Language and Literature,
Geography, Hospitality and Leisure Management, Law,
Library and Information Management, Linguistics,
Performing Arts, Politics and International Studies,
Psychology

**Ranked number 12
globally**

for **Climate Action** in the international Times Higher
Education University Impact Rankings 2022



Māori EFTS**

1,902, an increase
of 25% since 2013

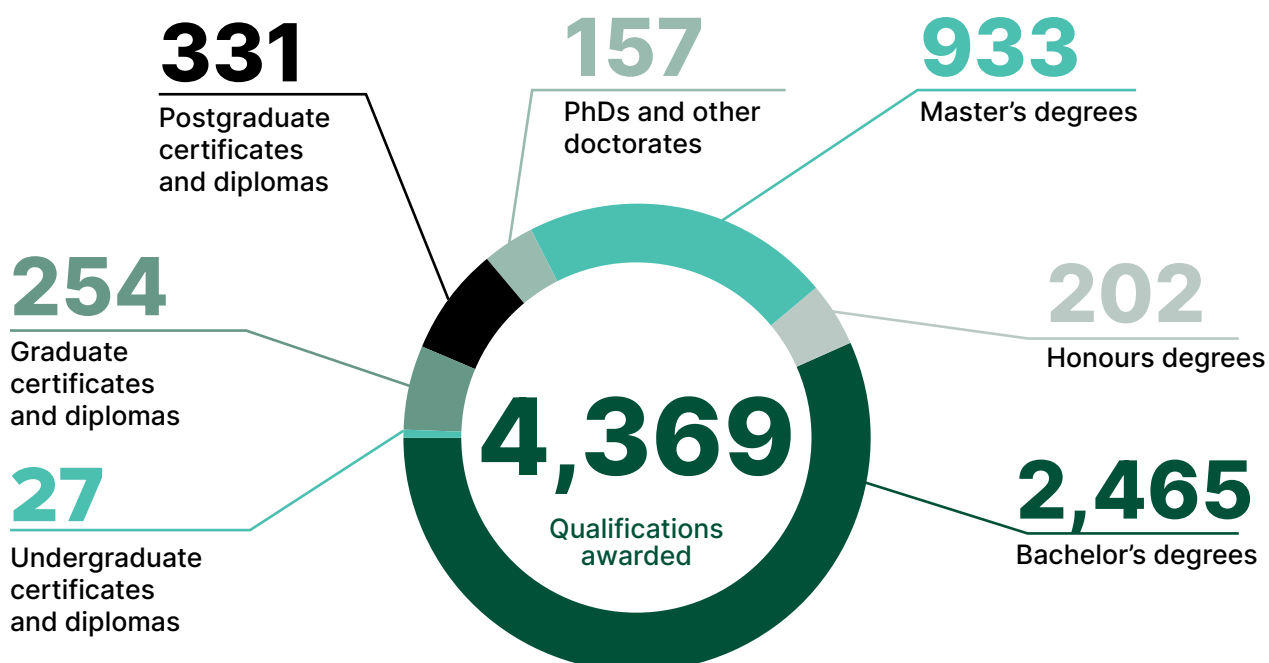


Pasifika EFTS**

1,045, an increase
of 34% since 2013

*QS World University Rankings 2022

**Domestic Equivalent Full-Time Students

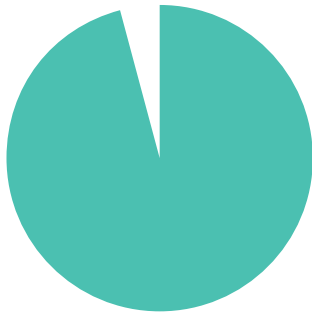


\$24.2M

invested in scholarships
by the University

Total revenue
\$494M

Total expenditure
\$510M



96%

of teachers were
assessed by students
as 'excellent', 'very
good', or 'good'

External research income
\$88.4M

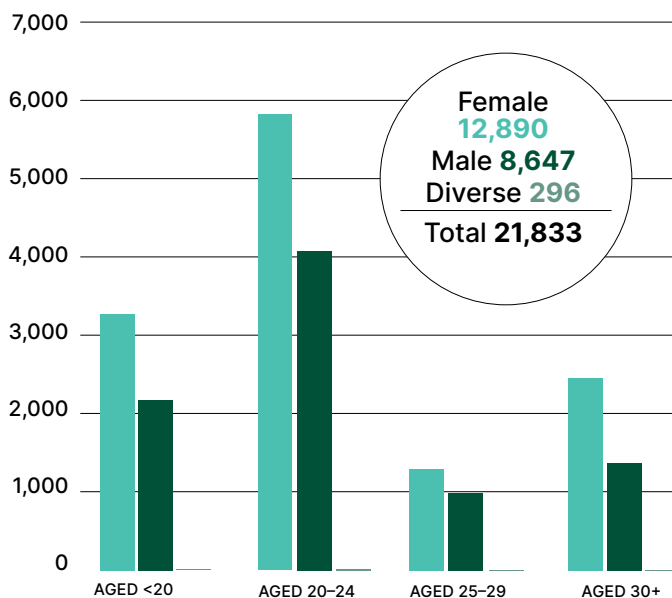
Equivalent full-time students

15,605 ***
government
funded

1,098 full fee

***15,596 SAC funded and 9 STAR funded

Student distribution¹



¹Student distribution by headcount

2,355

staff (full-time equivalent)

1,110

teaching and research staff

2022 BY THE NUMBERS



WOMEN ON SENIOR LEADERSHIP TEAM

42%
(same as
in 2021)



MĀORI STUDENTS

12.2%
(up from 11.9%
in 2021)



PASIFIKA STUDENTS

6.7%
(up from 6.5%
in 2021)



STUDENT VOLUNTEER HOURS

9,124 hours
(down from 9,563
in 2021)



SUSTAINABILITY-FOCUSED MEDIA RELEASES

48
(resulting in
42 media stories)



STUDENT SCHOLARSHIPS OFFERED IN SUSTAINABILITY TOPICS

13
(worth \$164,654)



RESEARCH PUBLICATIONS IN ENVIRONMENTAL SUSTAINABILITY

506
(down from
568 in 2021)



COURSES OFFERED IN ENVIRONMENTAL SUSTAINABILITY

125
(up from 109
in 2021)



ENROLMENTS IN ENVIRONMENTAL SUSTAINABILITY COURSES

5,290
(down from
5,905 in 2021)



GROSS CARBON EMISSIONS

12,364 tonnes
(down 36%
from 2017 baseline)



WASTE TO LANDFILL

467 tonnes
(up from 458
tonnes in 2021)



TREES PLANTED

4,150
(up from 2,400
in 2021)

INTRODUCTION

Sustainability matters to the students, staff, and communities of Victoria University of Wellington. As a values-led university, our commitment to sustainability is a manifestation of our core ethical values of rangatiratanga, manaakitanga, kaitiakitanga, whai mātauranga, whanaungatanga, and akoranga (respect, responsibility, fairness, integrity, and empathy). Our commitment to sustainability and wellbeing is one of our distinctive attributes.

Over the past year, we engaged the University's community to develop an outcomes framework to be the University's collective guide to applying our core ethical values to achieve our sustainability goals over the next few years. Called Te Parahia, the framework's objective is to provide clear and collective direction for all our staff and students to enable the University's community to support and work towards achieving our sustainability goals. 'Parahia' is a Māori word that means to come out from behind a cloud, to shine clearly, and to clear away any obstructions. Naming the framework 'Te Parahia' reflects our increased focus and commitment to 'shining a light' on our practices and supporting a sustainable future. It was developed after extensive discussions, workshops, and reviews with staff, students, and community partners, and it supports the University's Strategic Plan (2020). Te Parahia is a framework that brings together all the functions of the University (learning and teaching, research, engagement, operations, and governance) to maximise our contribution to a sustainable future. Those functional areas also form the structure of this report.

We recognise that sustainable development (and, by extension, the United Nations Sustainable Development Goals) encompasses not only environmental wellbeing but also social, financial, and cultural wellbeing. All our human systems are embedded in—and dependent on—the larger natural ecosystem. The University has established strategies and structures that focus on social, financial, and cultural wellbeing. Our sustainability work focuses on creating a healthy planet and how people connect with it. We are delighted to share our progress so far.



Image: Des Kelly



LEARNING AND TEACHING

Our students engage with sustainability issues during their time at the University through clubs and activities on campus, their coursework, or our leadership programmes. Our ultimate goal is to equip every one of the our undergraduates, as well as our postgraduate students, with the skills and knowledge to navigate, support, and accelerate the transition to a sustainable future.

Our students and graduates are perhaps our biggest contribution to a sustainable future as they become the change-makers we need them to be. There are plenty of

inspiring stories of current and former students making a sustainable impact. But 2022 was a challenging year for student participation. Despite continuing to expand our curricular and extracurricular sustainability offerings, student numbers dropped for the first time—both through course enrolments and attendance at extracurricular opportunities. This is heavily influenced by the overall drop in equivalent full-time students across the University; however, we want to see a return to the strong growth in sustainability-focused enrolments seen in previous years (a 120 percent increase between 2016 and 2021).

Performance indicators	2020	2021	2022
Environmental sustainability-focused course offerings	96	109	125
Enrolments in environmental sustainability-focused courses	5,509	5,905	5,290
Environmental sustainability-focused scholarships (and cumulative value)	12 (\$96,000)	10 (\$59,500)	13 (\$164,654)

OUR STUDENTS

A Master of Architecture student was named Future Thinker of the Year for 2022 by the New Zealand Green Building Council for her research on supporting schools in Aotearoa to transition to a low-carbon future. Eloise Blewden's winning entry was comprised of a carbon-emission tool that allows schools to input data on the likes of fuel, energy, waste, water use, and travel to calculate their output and provide information on how they can reduce emissions. Eloise said her aim was for the buildings and facilities that tamariki use for learning to become teaching tools in themselves. Her submission also focused on teaching rangatahi to design with sustainability as a priority.

A climate-change activist who completed a Master of Environmental Studies at the University was acknowledged as a distinguished alumni for 2022. Lisa McLaren, who graduated in 2014, is one of the country's leading advocates for a carbon-zero Aotearoa. As national convenor of the Zero Carbon Act campaign for the youth-led Generation Zero, Lisa was instrumental in developing the Zero Carbon Bill, a clear, ambitious, and achievable climate law that was adopted by the Government and passed unopposed into law by Parliament in November 2019. She said her university studies had motivated her to take action. "It led me to knowing more about the problem and, ultimately, wanting to tell many, many other people about it." Lisa has previously worked for the Wellington City Council on city resilience and sea-level-rise policy, and for the Wellington Region Emergency Management Office. In recognition of her work leading the campaign for the Zero Carbon Act, she was awarded a Queen's Service Medal for services to climate change advocacy in 2020.



Eloise Blewden

CURRICULUM DEVELOPMENTS

Every faculty offers sustainability-focused content in their programmes so every student has the opportunity to incorporate sustainability into their studies. However, to respond to student demand, we are increasingly offering more sustainability-focused qualifications. The latest addition to these is the newly established Bachelor of Global Studies.

The new degree focuses on globalisation and brings together multiple academic disciplines—especially humanities and social sciences—to cover many issues the world is currently tackling, including the environment and sustainability.

Students will look at the global and cultural impacts of climate change and the breakdown of the environment, and will examine worldwide attempts to deal with the big environmental problems we are all facing. All the topics covered in the Bachelor of Global Studies are delivered in the context of Aotearoa and te ao Māori.

EXTRACURRICULAR DEVELOPMENTS

Students are encouraged to develop a broad range of skills and participate in experiences that will complement their degrees and help them in life and work when they leave the University.

Te Tohu Rauhi—the Wellington Plus Programme celebrated its fifteenth anniversary in 2022. Wellington Plus is a meaningful way for students to give back to their community through volunteering and service, while gaining skills to help with future employment. The award-winning programme facilitates a wide variety of valuable service and leadership opportunities, focusing on volunteering within the University, including for the Sustainability team and externally for a range of community organisations such as Kaibosh Food Rescue, Sustainable Coastlines, the Sustainability Trust, and Zealandia Te Māra a Tāne. As one participant, Emma Kerr-Laurie,

explained, taking part in Wellington Plus reinforced her love of Aotearoa's environment. "I wanted to volunteer for Zealandia because I love spending time there and seeing the abundance of native species, which are the result of all the hard work that is put in. I also wanted to do my bit to help the natural environment and the community. I enjoyed it so much that I would like to continue volunteering for Zealandia when I return to Wellington to finish my studies."

In 2022, there were around 1,200 students registered with Wellington Plus, with 25 completing the certificate level and 38 achieving the award level.

Te Pūao—the Wellington International Leadership Programme (WILP) is a co-curricular programme that has been providing students with an opportunity to enhance their university degrees for 15 years. Participants gain an awareness of global issues and refine their understanding of associated concepts through discussion and reflection with fellow students. Through WILP's seminar series, students engage with challenging, globally relevant topics such as responses to the climate emergency, international diplomacy, migration, sustainable development, and trade. Different ways to explore the issue of sustainability are on offer, for example the Climate Action Virtual Internship (CAVI), an online experiential learning and internship programme that matches students in pairs to a host company based overseas. Students are trained to act as sustainability consultants and support the business to take real action on a climate emergency. The CAVI programme was designed to challenge and empower students and equip them with the knowledge and tools to build their climate literacy and take impactful action.

Our WILP participants have also been able to hear from a selection of the University's sustainability experts in the interactive seminar programme. At the end of 2022, close to 1,200 students were registered for WILP. Despite numbers being lower than usual due to the ongoing impacts of COVID-19, there were 275 new registrations for the full programme, with 30 students completing it.



RESEARCH

As we all grapple with the ever-present—and worsening—environmental crises, Victoria University of Wellington remains focused on delivering world-leading research that will help communities here in Aotearoa and around the globe transition to a sustainable future.

While it is very difficult to measure the impact that our sustainability research has for our community, we can use our research activity—and how much of it is requested from funding partners outside the University—as an indication of our research contribution. In 2022, we returned to levels similar to 2020 after an exceptional year in 2021, which included the allocation of renewed funding for hosting the MacDiarmid Institute for Advanced Materials and Nanotechnology, a Centre of Research Excellence.

Some of the interesting sustainability research projects from 2022 include:

- a new battery technology that could provide a cleaner and cheaper alternative to conventional batteries. Dr Fraser Hughson, who has a PhD in Chemistry from Te Herenga Waka, is part of a team that has developed a water-based electrolyte for use in batteries. He said developing a solution that was cheap to produce had the potential to provide a much-needed replacement for the lithium-ion technology currently used in electric

vehicles, which is known to catch fire and explode if it short-circuits and overheats. The technology is currently being developed further for commercial use, and may provide an energy-storage option for household solar systems.

- finding novel treatments to protect honey bees from the varroa mite. PhD candidates Zoe Smeele, Rose McGruddy, and Tessa Pilkington have been using beehives installed on the Kelburn campus to test new ways of treating the varroa mite. The mite has devastated bee populations worldwide by feeding on an essential bee organ and spreading viruses, often leading to colony collapse. Zoe said because bees were vital pollinators of agricultural crops, the race was on to find new treatments. “There are only a handful of treatments available for varroa, and there is evidence the mites are becoming resistant to those treatments. The chemicals used in current treatments can also be harmful to people and bees.” The students have been working on a treatment that uses RNA to target the mites, which Rose said would not only lead to a targeted treatment but also would avoid the use of harmful chemicals. “It would be better for people and for the planet. This RNA technology is highly targeted to the varroa mite, leaving the bees unaffected.”

Performance indicators	2020	2021	2022
Research publications in environmental sustainability	505	586	506
External grants for environmental sustainability research (and cumulative value)	47 (\$31.5 million)	59 (\$62.6 million)	55 (\$32.6 million)



Image: Ange Scott



From left: Professor Phil Lester, Rose McGruddy, and Zoe Smeele

- a joint project between the University and an iwi-led community housing provider that will see the homes of vulnerable residents made healthier through the installation of solar power technology. Associate Professor Ramesh Rayudu and Dr Daniel Burmester from Te Kura Mātai Pūkaha, Pūrōrohiko—the School of Engineering and Computer Science will work with Te Āhuru Mōwai, a Porirua housing provider run by Ngāti Toa, to install solar panels, power measurement sensors, and a community-based battery system in a group of Te Āhuru Mōwai homes. Associate Professor Rayudu said solar power was a great solution for community housing as it was low maintenance with a reasonably long lifetime. “We can also, ideally, reduce the cost of power for these homes by allowing them to produce and store their own energy, rather than having to import it from the national power grid.” The project has received \$414,000 in funding from the Ministry of Business, Innovation and Employment under its Māori and Public Housing Renewable Energy Fund.
- the answer to how much water it takes to make one litre of milk. Research led by Dr Mike Joy from the University’s Institute for Governance and Policy Studies showed that milk production in Canterbury had a huge water footprint. Focusing on nitrate pollution, the researchers were able to comprehensively quantify, for the first time, the nitrate ‘grey water’ footprint of milk production due to leaching from dairy farms in the Canterbury region. Depending on the water standards applied, it ranged from 433 litres to 11,110 litres of water per litre of milk. Dr Joy said growing use of synthetic nitrogen fertiliser had helped to dramatically increase nitrate levels and water pollution problems in New Zealand.
- a project that will improve our ability to predict sea-level rise and its impact around Aotearoa. The project, Te Ao Hurihuri: Te Ao Hou—Our Changing Coast, is led by the University. Programme co-leader Professor Tim Naish from Te Puna Pātītio—the Antarctic Research Centre says a key focus will be to improve the models currently used to understand the effects of sea-level rise, such as coastal flooding and groundwater salination, and risks to key infrastructure and cultural sites. He says the ultimate aim is to produce a new, publicly available online tool showing sea-level projections along the New Zealand coastline, which would allow risk assessment right down to the scale of individual houses and buildings. The project has received \$13 million in funding from the Endeavour Fund administered by the Ministry of Business, Innovation and Employment.
- a deeper understanding of parking and its impact on travel behaviour. Dr Omid Khazaeian, who has a PhD in geographic information science, found that readily available car parking at home encouraged people to drive to work. The research showed the more access people had to parking at their home, the more cars they owned and the more likely they were to drive to work. Access to parking at home had a bigger impact on car ownership and car use than household income, with higher car use contributing to increased emissions, congestion, and longer commute times. Dr Khazaeian’s research recommended improvements to public transport, incentives for carpooling, and better walkways and cycleways to make car alternatives more desirable.
- the advancement of knowledge around energy-loss behaviours of high temperature superconductors (HTS). The research by Dr Zhenan Jiang, who is principal scientist at the Paihau—Robinson Research Institute, looks at HTS fusion technology and AC loss (energy loss due to alternating magnetic fields), with the long-term goal of helping resolve the global energy crisis. “Successful development of HTS fusion technology implies that human beings can create many small ‘suns’ on the Earth—electricity so cheap that nobody on the planet would worry about power bills,” Dr Jiang said. The project was awarded \$932,000 from the Royal Society Te Apārangi’s Marsden Fund.



Image: Amanda Chu



Dr Zhenan Jiang

ENGAGEMENT

The key to generating a deeper understanding of sustainability issues—and motivating action—lies in engaging our staff and student community in activities and experiences both on campus and through partnerships at a local, regional, national, or international level.

Our student body, and the wider community in general, are becoming increasingly well versed in sustainability issues, which is pleasing. However, simply becoming more aware of the issues does not always lead to positive action.

Many people are time poor, don't know where to start, or increasingly are being overwhelmed by the enormity of the issues. Our challenge, and opportunity, is to get our community engaged in the individual and systemic change needed for a sustainable future. That is easier said than done when there are numerous competing priorities for attention, time, and money, and this is reflected in the variable levels of engagement and participation in 2022.

Performance indicators	2020	2021	2022
Student volunteer hours (Wellington Plus)	9,290	9,563	9,124
Sustainability-focused media releases (and the number of resulting stories)	45 (148)	30 (38)	48 (42)
Staff and student teams who completed the Green Impact programme	49	28	45
Students who think they have become more engaged with sustainability issues while enrolled	46%	44%	40%

Victoria University of Wellington's staff and students were involved in a wide variety of sustainability activities in 2022 that aimed to engage and motivate the wider community.

- The University announced its nominations for the high-profile Earthshot prize. As one of only three official nominators of the prestigious international awards from Aotearoa, Te Herenga Waka put forward three projects: the Living Pā redevelopment, X-Frame, and Tasmanlon. The submissions were described as 'fantastic examples of the awards' ambition and the University's commitments to the goals of the Earthshot prize—to build a waste-free world, fix our climate, protect and restore nature, and create opportunities for Indigenous stewardship'.
- Our tree-planting project was highly commended in the 'Powerful Partnerships' category of the annual Green Gown Awards Australasia. In partnership with Wellington City Council, the University has committed to the reforestation of an 11-hectare block of land in Ohariu Valley with more than 4,000 native seedlings. Called Growing Our Future, the project aims to restore the ecological values of the capital's outer green belt and help reduce the city's climate impact. It is a way the University's community can volunteer, and it also generates applied teaching and research opportunities.



Growing Our Future initiative members planting trees in Ohariu Valley.

- We became the country's first university to join the Aotearoa Collective for Public Transport Equity, in support of the Free Fares campaign. The University is aiming to achieve a goal of net zero carbon by 2030, and reducing the environmental costs of transport would play a significant part in this. "If students can get to campus without the barrier of transport costs, it is good for everyone. It allows students to live in a place that is affordable for them while enabling them to travel to study. And using public transport as a first choice can form a habit of low carbon transport for life," sustainability director Andrew Wilks said.
- Kāpuhipuhi—Wellington Uni-Professional has launched a suite of short courses focused on climate risk. The new courses include Climate Change Modelling and Risk Analysis; Climate Change Science for Business; Climate Financing and the Value Chain; and Climate Law and Policy. Kāpuhipuhi provides professional development modules aimed at the business community that draw on the University's deep expertise across a range of subject areas.
- The University's commitment to sustainability was recognised in 2022's global Times Higher Education University Impact Rankings. The University was ranked twelfth out of 674 institutions internationally for climate action, based on research carried out at Te Herenga Waka, low-carbon energy use, environmental educational measures, and our commitment to being carbon neutral by 2030. The 2022 result was a significant increase—28 places—from the previous year's climate action ranking.
- Students had the opportunity to get involved with sustainability initiatives across campus through Piki Toitū, the Sustainability Office's student volunteer programme. Nearly 30 volunteers gave many hours of their time running activities such as the Sustainability Week stand, creating recycling campaigns, and planting trees. Many of the students involved were part of the Green Impact programme, which facilitates a friendly competition where teams of staff and students are recognised for finding practical, sustainability-focused ways to make a difference. Green Impact is an international programme that aims to raise awareness of sustainability within an organisation by giving people a focused approach to tackling issues in their immediate environs. Those taking part report that Green Impact is a fun and engaging way to make meaningful environmental and sustainability changes in their offices and across campus.

Growing Our Future initiative members planting trees in Ohariu Valley.



OPERATIONS

Having a strong academic and research focus on sustainability is just part of the obligation we have at the University to do all we can to improve global outcomes—we strive to prioritise sustainability in our day-to-day activities too. We have the population of a small town, with similar accommodation, retail, recreation, and community services, so it is vital that we lead the way by demonstrating sustainable practices in our operation. The benefits are manifold: these environmentally minded undertakings also provide the University with opportunities for our teaching, research, and engagement.

The impacts of the COVID-19 pandemic have had a significant impact on our operational practices. Over the past three years, closed borders have significantly reduced air travel. Lockdowns, the February 2022 occupation at Parliament, and the greater uptake of remote working and learning have introduced more variability in the number of people on campus. In some instances, such as commuting, fewer people on campus had a direct effect on reduced environmental impact. However, for other areas, such as energy use, the campus still operated largely as usual for fewer people and, in fact, the extra ventilation requirements resulting from the pandemic increased energy demand.

Performance indicators	2020	2021	2022
Energy consumption (electricity and natural gas—GWh)	34.5	36.3	39.8
Air travel (university funded—km)	11.1 million	3.8 million	17.1 million
Commuting by car (staff and student—km)	4.4 million	4.9 million	4.6 million
Waste to landfill (kg)	395,000	458,000	468,000
Paper consumption (reams)	15,500	12,600	21,000
Trees planted	1,000	2,400	4,150
Gross greenhouse gas emissions (tonnes CO ₂ e)	10,715	9,282	12,364

ZERO CARBON PLAN PROGRESS

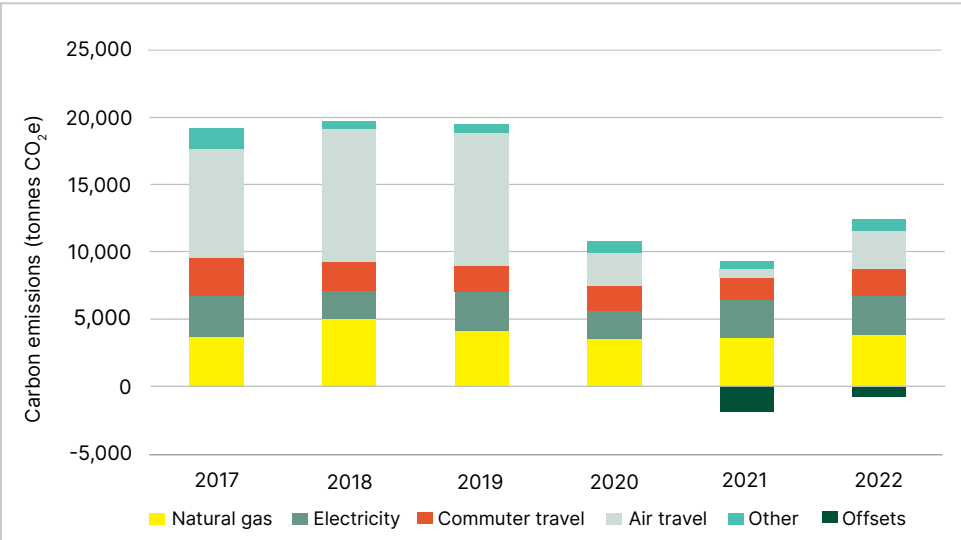
Through our [Zero Carbon Plan](#), we committed to reducing emissions so that our actions match the words of our leading academics and student advocates. We are targeting net zero emissions by 2030 and a reduction of gross emissions of 40 percent compared to our 2017 baseline.

So far, we are well ahead of schedule for our planned emissions reductions—in 2022, our gross emissions were 36 percent below 2017’s levels. However, that is largely due

to closed borders for the first half of the year limiting our ability to travel (before the pandemic, more than half our emissions were from air travel). We have introduced an internal carbon levy on air travel, set up departmental carbon targets, and engaged extensively across the organisation to try to minimise our air travel as we come out of the pandemic. The early indications are positive, as although we have resumed travelling, it is still less than half of pre-pandemic levels.

In 2022, we continued with our work programmes to improve energy efficiency, grow on-site renewable energy production, incorporate low-

carbon principles into the design of campus development work, encourage greater use of sustainable transport modes for commuting, and generate carbon credits through the establishment of our own native forest. This work builds on progress made over several years through incremental gains, whereas the changes to air travel patterns present the opportunity for a much more significant impact. For more details, refer to our [2022 Greenhouse Gas Inventory Report](#).



SUSTAINABILITY ON CAMPUS

Following a successful Sustainability Week initiative in 2021 that saw campus cafés ditch disposable cups in favour of reusable ones, the change was made permanent at the start of 2022. The Hunter Lounge, the Lab, Louis' Takeaway Café, Milk and Honey, Vic Books, and Wishbone made the commitment not to use single-use cups. Staff and students wanting their caffeine fix now must bring their own reusable cups to take their coffee away, make time to 'have here' in a ceramic cup, or borrow a cup from the University's cup library system, [Auraki](#). "It's the right thing to do, and our staff feel better championing reusables rather than handing out throwaway cups. New Zealanders send hundreds of millions of disposable cups to landfill every year, and we want to help show everyone how easy it can be to change that," said Jessica Godfrey, general manager of the Vic Books café.

In 2022, we also introduced a new system for managing staff car parking on campus. Previously, staff could purchase an annual parking permit, which allowed them to park as often as they liked. Now, staff use an app to pay for each day they park on campus, so there is a financial and administrative incentive to not drive every day. When combined with the ability to work remotely or take advantage of half-price public transport, it has resulted in much emptier staff car parks.



Image: Blake Spurdle



Work continued on the University's flagship marae redevelopment project, the [Living Pā](#). The finished complex will be one of the most environmentally sustainable buildings in the world, and is being constructed to meet the rigorous, internationally recognised [Living Building Challenge](#) principles for sustainable development. But beyond the bricks and mortar building work, the Living Pā aims to transform the way the University realises our culture and values by drawing together mātauranga Māori and sustainability practices in what will become a kind of living laboratory. Over the course of 2022, the building site went from partially demolished villas to an urban forest of wooden piles, ready for the first stages of the timber superstructure.



Illustration by [stantialstudio.co.nz](#)



Living Pā construction site, with an 'urban forest' of wooden piles.

ZERO 
CARBON BY 2030*



VICTORIA UNIVERSITY OF
WELLINGTON
TE HERENGA WAKA

**CAPITAL THINKING.
GLOBALLY MINDED.**
MAI I TE IHO KI TE PAE

www.wgtn.ac.nz/sustainability