

2019 SUSTAINABILITY PROGRESS REPORT



SNAPSHOT



ABOUT THIS REPORT



2019 was a year of action for sustainability at Deakin. From renewable energy initiatives and waste auditing, to receiving workplace equity awards, we achieved a lot.

Our commitment to the United Nations Sustainable Development Goals and Deakin's sustainability commitments has guided this action and looking forward, we're well-positioned to achieve our 2020 targets, and deliver on the Deakin values.

Along with our **2019 Sustainability Progress Report video**, this document showcases these achievements, and outlines what's next in our journey at Deakin.



OUR COMMUNITY



Our staff

FTE (including casual staff)

5,396

Staff

2,409

Academic staff

2,987

Professional staff



Our students

Equivalent Full Time Student Load (EFTSL)

43,425

Students

2020 SUSTAINABILITY COMMITMENTS

“ We’re well-positioned to achieve our 2020 targets, and deliver on the Deakin values”



ENERGY & EMISSIONS

Reduce total carbon emissions to the 2013 baseline despite growth and increase the percentage of on-campus renewable energy generation.



2013 baseline = -77,000 tCO2e



WATER

Reduce mains water consumption to 5 kilolitres or less per person.



2013 baseline = -187,000 kL total consumption, equivalent to 5kL per person (Person = EFTSL + FTE staff)



WASTE & RECYCLING

Reduce the volume of waste to landfill to 20 kg per person. (equivalent to 26 per cent waste diversion).



2016 baseline = 38.6 kg per person (Person = EFTSL + FTE staff)



TRAVEL & TRANSPORT

Complete a transport strategy for each campus and increase the use of sustainable transport to and between campuses.



Baseline = refer to 2015 staff and student sustainability survey



NATURAL ENVIRONMENT

Complete a biodiversity management plan and embed biodiversity considerations into campus planning.



BUILT ENVIRONMENT

Embed the Deakin Sustainable Built Environment (SBE) Principles and complete a climate adaptation review.



PROCUREMENT & SUPPLY CHAIN

Increase Deakin's local (G21 region) procurement spend by 7 per cent and increase jobs from target communities by 20 per cent.



Baseline = refer to G21 Region Opportunities for Work (GROW) initiative

ENERGY & EMISSIONS



Renewable energy Microgrid at the Waurin Ponds Campus

7 AFFORDABLE AND CLEAN ENERGY

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



2020 TARGET

Reduce total carbon emissions to the 2013 baseline (~77,000 tCO₂e) despite growth and increase the percentage of on-campus renewable energy generation.

No place on earth will be unaffected by the impacts of climate change, and there is no doubt that urgent and collective action to reduce emissions must occur.

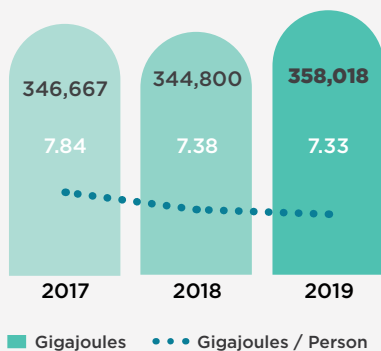
In 2019, Deakin progressed a strategy to improve the energy efficiency of our campuses which has resulted in planned lighting and building efficiency programs that will be delivered over the next five years. When complete, these programs will reduce energy consumption and associated emissions by approximately 10,000 tonnes each year.

100% of our flight related emissions were offset through the Qantas Future Planet Program and we continued construction of the 7.25-megawatt renewable energy microgrid at the Waurin Ponds Campus.

We also joined the Melbourne Renewable Energy Project 2 buying group to procure 14 gigawatt hours of grid-supplied renewable electricity. In conjunction with the microgrid, this means that approximately 50 percent of electricity consumed across Deakin will be from renewable sources.

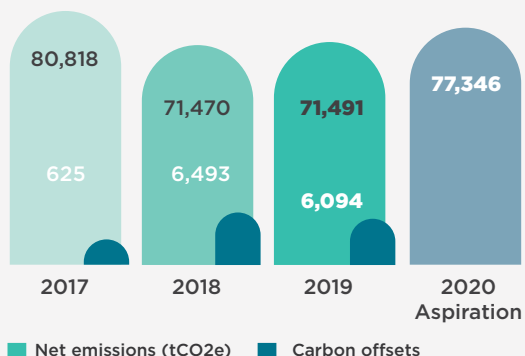
ENERGY

Electricity, natural gas and fuel (including fleet)



EMISSIONS

Scope 1, 2 and 3



Note: Historical data contained some estimates, and has been updated for the 2019 report. 2019 energy and emissions data includes some estimates due to a lag in billing data from utility providers.

NATURAL & BUILT ENVIRONMENTS



Aerial view of the Waurm Ponds Campus



2020 TARGET

Complete a biodiversity management plan and embed biodiversity considerations into campus planning.

In 2019 we finalised a detailed climate change adaptation risk assessment for our Waurm Ponds Campus. From 2020, we will be implementing a range of actions to ensure our campuses, communities and natural environments are resilient to climate hazards.

We also identified key areas of the Waurm Ponds Campus that will form important future biodiversity corridors and linkages, and continued to rehabilitate 1.8 hectares of land alongside the Waurm Ponds Creek and 2.5 hectares of Hopkins River estuary frontage at the Warrnambool Campus.



2020 TARGET

Embed the Deakin Sustainable Built Environment (SBE) Principles and complete a climate adaptation review.

In our built environment, we continued to progress a range of sustainable construction projects and opened a state-of-the-art sports science building at our Burwood Campus.

program and this will inform future indoor environment quality elements within our sustainable built environment principles.

As a part of this project, we have installed indoor environment quality sensors in key areas of the building. In 2020, data from these sensors will be analysed by Deakin students and researchers through our Living Labs



New sports science building at the Burwood Campus

WASTE & RECYCLING



PVC recycling within the Faculty of Health



2020 TARGET

Reduce the volume of waste to landfill to 20 kg per person.

In 2019, we completed a comprehensive waste audit of all landfill and recycling bins across each campus, developed a 2020 Waste Management Plan, reduced paper towel in amenities, and continued to compost organic waste at hospitality venues. The above actions have made a measurable difference to achieving the 2020 waste targets.

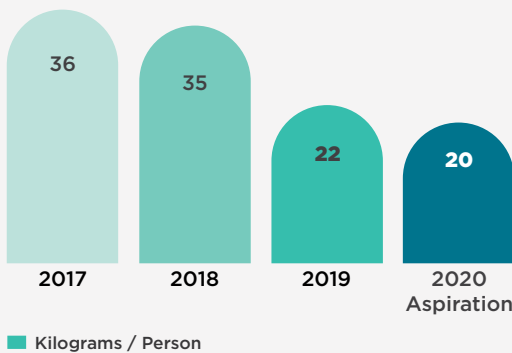
In 2020 we will be rolling out initiatives such as organic waste collections at cafes, libraries, microwave hubs and student residences, new and improved waste signage, soft plastics recycling in our hospitality venues, logistics

areas and labs, introducing reusable cup initiatives like Skip Zero and undertaking a review of packaging used across our hospitality venues.

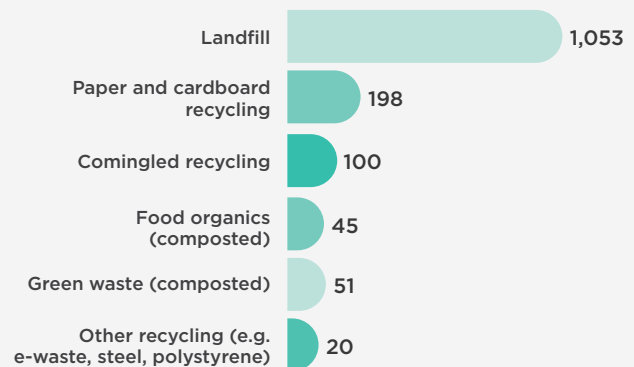
We also hosted the Regional Innovation for a Circular Economy conference aimed at raising awareness about the key principles for a circular economy. The conference was attended by government, industry, and academia resulting in many shared learnings and new connections.

WASTE AND RECYCLING

Landfill per person



TOTAL WASTE



WATER



Lake system at the Waurn Ponds Campus



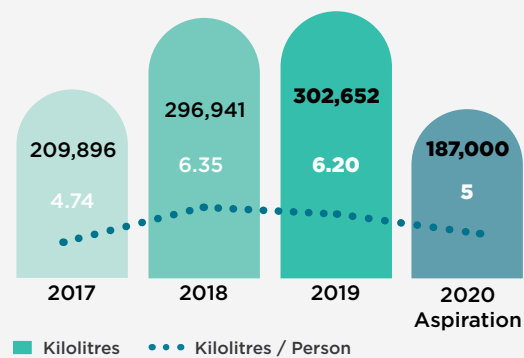
2020 TARGET

Reduce mains water consumption to 5 kilolitres or less per person.

In 2019, we completed a Water Management Strategy at the Geelong Waurn Ponds Campus. This strategy provides a comprehensive review of how water is used for irrigation and amenities, stormwater management and revegetation of the Waurn Ponds Creek.

In 2020, we will build on this strategy with the creation of an Integrated Water Management Plan that will provide a broader understanding of water management on campus to include a review of; water sources, wastewater, open spaces and traditional and cultural values of water. The plan will explore opportunities to reduce our reliance on potable water, become more water-efficient and ultimately work towards self-sufficiency.

WATER



Note: Historical data contained some estimates, and has been updated for the 2019 report. 2019 water data includes some estimates due to a lag in billing data from utility providers.

TRAVEL AND TRANSPORT



Ride to work day



11 SUSTAINABLE CITIES AND COMMUNITIES



2020 TARGET

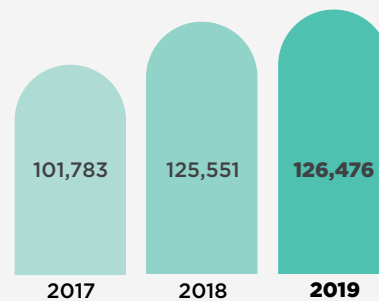
Complete a transport strategy for each campus and increase the use of sustainable transport to and between campuses.

In 2019, Deakin's Travel and Transport Working Group progressed the development of the campus-specific transport and travel strategies. These travel strategies will help advance our 2030 Travel and Transport commitment that the majority of staff and students with sustainable transport options, use these to travel to and between campuses.

The intercampus bus continued to be a success with over 126,000 Deakin staff and students using this sustainable transport option, eliminating car trips to and between our Geelong campuses. In 2019, 100% of our fleet-related emissions were offset totalling 336 tonnes of CO₂e, and fleet-related emissions have reduced by 43% since 2017.

In 2019 Deakin investigated the Liftango carpooling app as part of our strategy to incentivise more sustainable transport behaviours and reduce single-occupancy car use. Launched at Deakin in early 2020, Liftango matches students and staff who share similar journeys to and from our campuses and offers priority parking for those sharing rides.

INTERCAMPUS BUS



of passengers

GREEN IMPACT



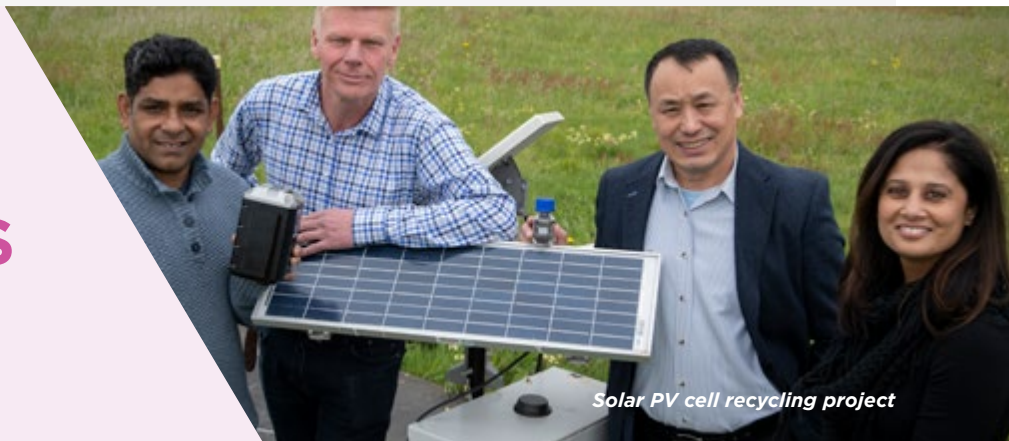
2019 Green Impact award ceremony

In 2019, Deakin rolled out the Green Impact sustainability ambassador program. With 72 teams comprised of over 450 people, participants completed approximately 1,600 sustainability actions.

90 students were also actively involved in the program as project assistants and

Green Impact Guardians. Through these roles, students worked with staff to support projects and audit outcomes which gave our students invaluable immersion in a corporate environment and the opportunity to build workplace skills and their sustainability knowledge.

RESEARCH & PARTNERSHIPS



Solar PV cell recycling project

Sustainability is embedded throughout Deakin's curriculum and we continue to conduct world-leading research in areas such as energy, agriculture, health, and corporate social responsibility.

In 2019, Deakin's Institute for Frontier Materials (IFM) began a research project to extract silicon from discarded solar panels and repurpose it into nano-silicon for batteries, enabling photovoltaic cells to be effectively recycled and preventing high-value waste from going to landfill.

This innovative research was co-funded by Sustainability Victoria and addresses several challenges facing industries that depend on

battery storage. Firstly on the supply side, it enables sought after battery-grade nano-silicon to be sourced from discarded solar panels. Secondly, the nano-silicon can store around ten times more energy in the same space - a huge benefit in the growing electric vehicle industry.

In another project, IFM researchers investigated the use of natural wool fibre as a cost-effective and sustainable alternative for automotive interiors. This research demonstrated that the materials made from both virgin and waste wool display highly efficient properties that can increase automotive comfort, whilst minimising the waste associated with end-of-life vehicles.

DIVERSITY, ACCESS AND INCLUSION



Students at the Waterfront Campus



Deakin is committed to being a leader within the social dimension of sustainability, and demonstrate this through our accessible, diverse, and inclusive campuses. At Deakin, we aspire to achieve gender equality and empower all women and girls and we are progressing this through Deakin's Gender Equity Plan.

Over the next four years, Deakin aims to make significant progress across the four key action areas including recruitment, promotion, career advancement and culture, leadership, and increasing diversity.

In 2019, for the 13th year running, Deakin was recognised as an employer of choice for women

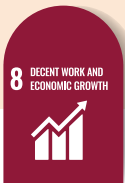
through the Workplace Gender Equality Agency's Employer of Choice Citation. Deakin was also awarded the SAGE Athena SWAN Bronze Award and subsequent actions have been embedded in the Gender Equity Plan 2019 – 2023. The overall pay gap for Deakin has continued to decrease over the last three years from 14.4% in 2017 to 13.3% in 2019.

Deakin was also awarded the Australian Workplace Equality Index Gold Medal for work undertaken in 2018 to increase the inclusion and support of Lesbian, Gay, Bisexual, Transgender, Intersex and Queer or Questioning staff.

PROCUREMENT AND SUPPLY CHAIN



Warrn Pond logistics warehouse



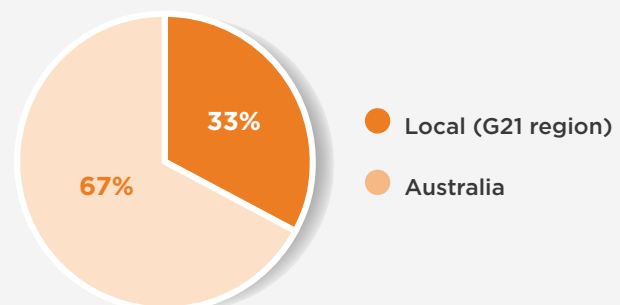
2020 TARGET

Increase Deakin's local (G21 region) procurement spend by 7 percent and increase jobs from target communities by 20 percent.

Each year, Deakin spends around \$400 million dollars on goods and services, and the sustainability of these suppliers and their supply chains is crucial. Local spending in the communities that Deakin operates is prioritised, strengthening our contribution towards decent work and economic growth in these regions.

In 2020, we will focus on enhancing our sustainable procurement outcomes, including the development of a modern slavery statement for the University.

DOMESTIC SPEND



Deakin's total domestic spending in 2019 was ~\$122 million.



**For more
information contact:**

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