Environmental Sustainability Strategy 2020-2025







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2020-2025

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Introducing Melbourne Polytechnic's Environmental Sustainability Strategy

As a global citizen, Melbourne Polytechnic has a key role to play to help reduce our impact on the environment and prepare our students to thrive in a rapidly changing world where industries are transforming in response to climate change. Consultation with our stakeholders informs us that there is an appetite for Melbourne Polytechnic to provide leadership, and to contribute to delivering positive environmental sustainability outcomes.

Melbourne Polytechnic's Environmental Sustainability Vision is to be known as an Institute that practices environmental sustainability, empowering our students and staff to change the way they think, ensuring a sustainable future for all.

This vision is intrinsically linked to Melbourne Polytechnic's Vision, Values and Ways of Working, and its policy framework shows our alignment to Melbourne Polytechnic's Strategic Objectives.

The Environmental Sustainability Strategy (ESS) is framed around three focus areas: Operations, Knowledge and Capacity, and Community and Engagement. As part of this strategy, we are also developing our Environmental Sustainability Communication and Engagement Plan, as we see communication and engagement as the core to a successful ESS.

Operationally, we have made significant progress over the last five years and will continue to do so. The ESS will consider the work we do to 2025, and in some areas what we might look like in 2050. We will measure these targets against baseline data and will seek to deliver continuous improvement on our performance.

Measurement and Verification

Measurement and analysis is required throughout the implementation of strategic initiatives to prioritise projects, monitor improvements and optimise overall performance. To ensure regularity, transparency and robustness of review, this plan determines that:



- The supporting policies and action plans that impact and underpin the aims of this Strategy will be reviewed periodically, with any changes approved by the Executive Leadership Committee.
- Monitoring and reporting on the identified priorities is to be conducted bi-annually and presented to the Environmental Sustainability Committee for discussion and review.
- An annual progress report will be submitted to the Board and Government.
- A sustainability report card will be published on the Melbourne Polytechnic website ensuring transparency with all stakeholders regarding our approach and progress.



The Sustainable Development Goals

The Sustainable Development Goals are a universal call to action to end poverty, protect the planet, and improve the lives and prospects of everyone, everywhere. All UN Member States (including Australia) adopted the 17 Goals in 2015, as part of the 2030 Agenda for Sustainable Development.

The targets and goals we have set for the ESS are in line with global, national and state objectives. For example, the targets we have set ourselves for emissions meets the requirements of the Paris Agreement to keeping a global temperature rise this century well below 2 degrees Celsius compared to pre-industrial levels, and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius.





TARGETS AT A GLANCE

ENERGY AND **CARBON MANAGEMENT BASELINE YEAR: 2015**



41%

IN EMISSION BETWEEN 2015 AND 2019

BY 2025

Reduce emission by 50% below 2015

ASPIRATIONAL GOAL: Reduce emission by 55% below 2015

BY 2030

Reduce emissions by 60% below 2015 baseline

ASPIRATIONAL GOAL: Reduce emissions by 65% below 2015 baseline

BY 2050

Net zero emission

WASTE AND RECYCLING

BASELINE YEAR: 2015



110% IN WASTE TO LANDFILL BETWEEN BETWEEN 2015 2015 AND 2019

↑57% IN RECYCLING AND 2019

BY 2025

10% reduction in total waste volume by 2025 25% of food organics diverted from landfill Recycle 40% of recyclables

BY 2030

20% reduction in total waste volume 50% of food organics diverted from landfill Recycle 50% of recyclables

BY 2050

90% reduction in waste volume **100%** of food organics diverted from landfill 100% recycling of recyclables

WATER **BASELINE YEAR: 2015**



5% IN POTABLE WATER USE **BETWEEN 2015 AND 2019**

BY 2025

Improve potable water efficiency by 10%

25% of irrigation water supplied by non- potable water

BY 2030 тва **BY 2050** тва

PROCUREMENT AND SUPPLY CHAIN

BASELINE YEAR: 2019



NO BASELINE AVAILABLE

BY 2025

5% of Melbourne Polytechnic procurement spend supports the circular economy

BY 2030

10% Melbourne Polytechnic procurement spend supports the circular economy

BY 2050

20% of Melbourne Polytechnic procurement spend supports the circular economy

TRAVEL AND TRANSPORT

BASELINE YEAR: 2015



27%

IN VEHICLE EMISSION BETWEEN 2015 AND 2019

BY 2025

Reduce air travel emission by 10%

Reduce vehicle emission by 35% below 2015 baseline 5% of vehicle fleet will be electric

No new diesel vehicle hires from 2020

BY 2030

BY 2050

Reduce air travel emission by **20%** by 2030 10% of vehicle fleet will be electric

Executive packages require

a fuel consumption of

5L/100km or better

Increase the percentage

of staff and students

commuting by active

travel modes by 5%

Reduce air travel emissions by 50% by 2050

80% of vehicle fleet electrified

COMMUNICATION AND ENGAGEMENT

BASELINE YEAR: 2019



AS AT 2019, THE COMMUNICATION AND ENGAGEMENT SCORE AT



(I.E. SCORE OF 4 OR ABOVE)

BY 2025

40% of students and staff rate sustainability communication and engagement at a score of 4 or above

BY 2030

50% of students and staff rate sustainability communication and engagement at a score of 4 or above by 2030

BY 2050

100% of students and staff rate sustainability communication and engagement at a score of 4 or above of the sustainability culture indicator survey

KNOWLEDGE AND CAPACITY

BASELINE YEAR: 2019



AS AT 2019. THE OVERALL SUSTAINABILITY **KNOWLEDGE SCORE WAS**

MUCH NEED FOR IMPROVEMENT

BY 2025

Integrate sustainability into student learning and experience to ensure all our students understand the importance of sustainability

> 80% of staff have participated in professional development in environmental sustainability



тва

SUSTAINABLE CONSTRUCTION AND REFURBISHMENT

BASELINE YEAR: 2019



BY 2025

All campus refurbishment will incorporate environmental sustainability design where possible

All new construction will have an equivalent 5 star green star building rating

> **BY 2030** тва **BY 2050**

> > TBA

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Energy and Carbon Management

Reduce carbon emission





PROGRESS	TARGETS			
	2025	2030	2050	
↓ 41%	Reduce emission by 50% below 2015	Reduce emissions by 60% below 2015 baseline		
IN EMISSION BASED ON 2015 BASELINE	ASPIRATIONAL GOAL: Reduce emission by 55% below 2015	ASPIRATIONAL GOAL: Reduce emissions by 65% below 2015 baseline	Net zero emission	

ACTIONS	PARTICIPATION	BY 2025 TARGET
 Complete a scope 1 and 2 emission inventory Develop scope of works for level 3 energy audit Complete a level 3 energy audit and a marginal abatement cost curve to identify the most cost effective projects to reduce emissions Develop an emission reduction action plan for 2020-2025 	 Sustainability Officer ICT Facilities and Assets Finance Executive Leadership Committee General & academic staff Consultants 	 Implementation of emission reduction action plan complete Emission reduced by 10% based on 2015 baseline by 2025
Develop a behavioural change program to support emission reduction	 Students & Staff Student Life at MelbPoly (SLAM) People and Culture 	Emission reduced by 10% based on 2015 baseline by 2025
 Stage 1: Conduct an onsite rooftop solar feasibility study (completed 2020) Stage 2: Roof structure engineering certification (2020) Stage 3: Tender Design and documentation (2021) Stage 4: RFT Heidelberg 2021 / RFT Preston 2023 Stage 5: Install onsite renewable at Heidelberg and Preston 	 Facilities and Assets Consultant Executive Leadership Committee MP Board Consultants Suppliers Government authorities 	 Rooftop solar installed at Preston and Heidelberg 10% of Melbourne Polytechnic electricity is delivered by onsite renewable
Enter into a renewable energy power purchase agreement by 2024	 Procurement Australia Electricity supplier Facilities and Assets Finance/procurement Legal Executive Leadership Committee & MP Board 	50% of Melbourne Polytechnic electricity is supplied by offsite renewable energy
Purchase offsets for air travel emission for national and international flights	 Procurement manager Sustainability Officer Executive Leadership Committee Travel provider 	100% air travel emission offset
Review Melbourne Polytechnic vehicle fleet policy and include requirements to transition to electric vehicles Implement electric car charging stations at Melbourne Polytechnic campuses for student and staff use	 Procurement manager Vic Fleet Facilities and Assets Executive Leadership Committee Contractors 	Vehicle fleet emission reduced by 35% below 2015 baseline



Reduce waste to landfill



SUSTAINABLE DEVELOPMENT GOALS

PROGRESS

SINCE 2015, THE PROPORTION OF WASTE TO LANDFILL HAS INCREASED BY

110%

AND RECYCLING HAS INCREASED BY

157%

2025 10% reduction in total waste volume by 2025

25% of food organics diverted from landfill

Recycle **40%** of recyclables

2030 20% reduction in total waste volume 50% of food organics

TARGETS

diverted from landfill

Recycle **50%** of recyclables

100% of food organics diverted from landfill

2050

90% reduction in

waste volume

100% recycling of recyclables

ACTIONS	PARTICIPATION	BY 2025 TARGET
Undertaken waste audit	 Waste auditor Facilities and Assets Cleaning company Delivery areas Students and staff 	A 10% reduction in total waste volume based on 2015 levels
Implementing a food organics recycling program across campuses	 Staff and students Commercial cafés Conference centre Student residence 	25% of food organics diverted from landfill based on 2019 levels
Develop and implement a solution to divert construction waste from trades areas from landfill	 Trade areas staff and students Waste provider Facilities and Assets 	Construction waste that can be recycling is recycled
Expand campus recycling programs to include coffee cups, soft plastics and polystyrene Amend signage on existing bins to reduce contamination	 Students and staff Contractors 	Recycle 40% of recyclables based on 2015 levels
Amend Melbourne Polytechnic's procurement policy to include supplier requirements for reducing waste from packaging	 Procurement manager Sustainability Officer Executive Leadership Committee Suppliers 	Procurement policy includes supplier requirements for packaging
Engage with Melbourne Polytechnic suppliers to eliminate, reduce or takeback product packaging	 Procurement manager Suppliers Contractors Staff 	The amount of inbound packaging from suppliers has been reduced
Develop a behavioural change program to reduce waste to landfill and increase recycling rates	 Students and staff Contractors 	Recycling rates improved and contamination reduced



Use water efficiently and develop ways to reduce, reuse and recycle water where possible



SUSTAINABLE DEVELOPMENT GOALS



PROGRESS

SINCE 2015, POTA-BLE WATER USE HAS INCREASED BY

15%

2025

Improve potable water efficiency by **10% 25%** of irrigation

water supplied by non-potable water

2030

TARGETS

2030 targets will be set in the 2026 to 2030 Environmental Sustainability Strategy 2050 targets

2050

will be set in the 2026 to 2030 Environmental Sustainability Strategy

ACTIONS	PARTICIPATION	BY 2025 TARGET
Sub meter water supplies on campuses with high water consumption to identify areas for focus	 Facilities and Assets Contractors Water retailers 	 sub-metering of potable water supply at high use campuses complete
Develop a campus biodiversity plan	 Grounds staff Horticulture students and staff 	Embed biodiversity into campus planning
 Develop and implement a water management plan for high use campuses, that includes: Actions such as the installation of water efficient appliances / plumbing in association with any building upgrades Policy requiring drought tolerant and water sensitive landscape designs in future landscaping works / renewal 	 Facilities and Assets Water retailers Contractors 	Implementation of water efficiency measures (ongoing)
Place data loggers on non potable water sources	 Facilities and Assets Contractors Water retailers 	25% of irrigation water supplied by non-potable water
 Automate irrigation at all campuses (timers, link to the building management systems) Install irrigation in areas that are not currently on automatic irrigation 	 Facilities and Assets Contractors Grounds staff Irrigation specialists 	25% of irrigation water supplied by non-potable water
Promote awareness of the responsibility for water conservation to program areas and individuals	 Program areas Staff and students 	Potable water efficiency has improved by 10%

Sustainable Procurement and Supply Chain



Melbourne Polytechnic's Commitment: Embed environmental sustainability into our procurement practices



PROGRESS TARGETS 2025 2030 2050 MP HAS NO DATA **ON CURRENT** 20% of Melbourne SPEND ON 5% of Melbourne 10% of Melbourne Polytechnic procurement **ENVIRONMENTAL** Polytechnic procurement Polytechnic procurement spend supports the **SUSTAINABILITY** spend supports the spend supports the circular economy circular economy circular economy PROCUREMENT PARTICIPATION BY 2025 TARGET ACTIONS

Actions		
Amend Melbourne Polytechnic's procurement policy to include environmental considerations when purchasing goods and services	 Procurement Manager Sustainability Officer Finance Executive Leadership Committee 	5% of procurement spend support the circular economy
Develop appropriate metrics for measuring progress of environmental sustainable procurement spend	 Procurement manager Sustainability Officer Finance Suppliers Staff 	5% of procurement spend support the circular economy
Provide online training and guidance to staff within the institute that support environmental sustainable procurement	 Suppliers Procurement manager People and Culture 	90% of staff registered with finance 1 have completed environmental sustainability procurement training



Travel and Transport

Melbourne Polytechnic's Commitment: Reduce Melbourne Polytechnic's transport emissions



SUSTAINABLE DEVELOPMENT GOALS



PROGRESS TARGETS 2025 2030 2050 Reduce air travel emission by 10% **SINCE 2015,** VEHICLE Reduce vehicle emission by 35% below 2015 baseline Reduce air Reduce air **EMISSIONS HAVE** travel emission travel emissions 5% of vehicle fleet will be electric **REDUCED BY** by **20%** by 2030 by **50%** by 2050 No new diesel vehicle hires from 2020 10% of vehicle 80% of vehicle **↓27%** Executive packages require a fuel fleet will be electric fleet electrified consumption of 5L / 100km or better Increase the percentage of staff and students commuting by active travel modes by 5%

ACTIONS	PARTICIPATION	BY 2025 TARGET
Create a category on student (new and existing) enrolment forms that asks for intended mode of travel to campus	 Student acquisitions 	Long term travel data to assist with campus development
Undertake a commuter audit to further understand the requirements for sustainable transport infrastructure at each campus	 Sustainability Officer Casual staff 	Percentage of students and staff commuting to campus using active transport modes has increase
Purchase offsets for air travel emission for national and international flights	 Procurement manager Sustainability Officer Executive Leadership Committee Travel provider 	100% of air travel emission offset
Review vehicle fleet policy and include requirements to transition to electric vehicles Implement electric car charging stations at Melbourne Polytechnic campuses for student and staff use	 Procurement manager Vic Fleet Facilities and Assets Executive Leadership Committee Contractors 	Vehicle fleet emission reduced by 35% below 2015 baseline
 Review and amend the vehicle fleet policy to: Prevent MP hiring new diesel vehicles Ensure executive packages require fuel consumption of 5L / 100km or better 	 Procurement manager Vic Fleet Facilities and Assets Executive Leadership Committee Contractors 	 Fuel consumption for executive vehicles is 5L / 100km or better No new diesel vehicles within fleet
Improve end of trip bike parking facilities for staff and students	 Facilities and Assets 	Secure bike parking facilities, showers and lockers available for staff and students
Develop an awareness program for sustainable transport	Sustainability Officer	Awareness program to encourage sustainable transport use by student and staff implemented

Communication and Engagement

Melbourne Polytechnic's Commitment: Develop a culture of environmental sustainability at Melbourne Polytechnic





ACTIONS	PARTICIPATION	BY 2025 TARGET
Undertake an environmental sustainability culture indicator survey to determine baseline data (complete)	StudentsStaff	Students and staff rating for sustainability communication and engagement score of 4 or above has increased from 34% to 40%
Develop and communication and engagement plan	StudentsStaff	Action from the communication and engagement plan implemented
Undertake biannual environmental sustainability culture indicator survey to measure progress	 Students Staff Consultant 	Students and staff rating for sustainability communication and engagement score of 4 or above has increased from 34% to 40%
Develop an awareness program for sustainable transport	 Sustainability Officer 	Awareness program to encourage sustainable transport use by student and staff implemented
Provide online training and guidance to staff within the institute that support environmental sustainable procurement	 Suppliers Procurement manager People and Culture 	90% of staff registered with finance 1 have completed environmental sustainability procurement trainin
Develop a behavioural change program to reduce waste to landfill and increase recycling rates	 Staff Students Contractors 	Recycling rates improved and contamination reduced
Develop a behavioural change program to support emission reduction.	 Students Staff SLAM People and Culture 	Actions to support the reduction of emission through behavioural change are implemented (ongoing)
Promote awareness of the responsibility for water conservation to program areas and individuals	 Students Staff SLAM Program areas 	Actions to support water conservation through behavioural change are implemented (ongoing)



Knowledge and Capacity

Melbourne Polytechnic's Commitment:

We will ensure our staff and students understand sustainability, and to act sustainably at home, at work and in the community





PROGRESS TARGETS AS AT 2019, THE 2025 2030 2050 OVERALL SUSTAINABILITY KNOWLEDGE SCORE WAS Integrate sustainability into student learning and experience to ensure all our students understand 3 the importance of sustainability. 80% of staff have participated in professional MUCH NEED FOR development in environmental sustainability IMPROVEMENT

ACTIONS	PARTICIPATION	BY 2025 TARGET
Include environmental sustainability into curriculum design	 Curriculum Unit Teachers Executive Director Curriculum innovation and Teaching Excellence 	Course reviews requires the inclusion of environmental sustainability in the curriculum
Provide students the opportunity to undertake on campus sustainability projects that is linked with student course requirements.	 Executive Director Academic Operations Student Life at MelbPoly (SLAM) Program areas Teachers 	Students from the 3 Academic Directorates (Foundation, Higher Education and VET) participate in on campus sustainability projects
Foster sustainability on campus through student engagement and informal learning activities	 Student Life at MelbPoly (SLAM) 	Five student focused environmental sustainability events delivered per year per campus including a focus on sustainability from Aboriginal perspective
Establish a sustainability community of practice for program areas	 Curriculum innovation and teaching excellence team Teachers 	Teachers from each faculty present a environmental sustainability project at the teaching and learning conference
Include environmental sustainability in Individual development plans	People and Culture	All staff have completed an environmental sustainability objective as part of individual development plans
Provide online training and guidance to staff within the institute that support environmental sustainable procurement	 Suppliers Procurement manager People and Culture 	90% of staff registered with finance 1 have completed environmental sustainability procurement training
Develop a online sustainability training module to support Melbourne Polytechnic environmental sustainability strategy objectives	 People and Culture Staff 	90% of current staff and all new staff have completed the online environmental sustainability training module
Include a environmental sustainability category in the staff awards program	 People and Culture Sustainability Officer Internal Communication Officer Executive Leadership Committee 	Sustainability category included in staff awards program

Sustainable Construction and Refurbishment

Melbourne Polytechnic's Commitment: Reduce the environmental sustainability impacts of our construction and refurbishment projects





ACTIONS	PARTICIPATION	BY 2025 TARGET
Incorporate environmental sustainability design principles in Melbourne Polytechnic's asset strategy and masterplan	 Executive Director, Strategic Asset Development Facilities and Assets ICT Executive Leadership Committee Consultant 	Environmental Sustainable design incorporated into new construction and refurbishments
Update Melbourne Polytechnic Capital and maintenance policy to include requirements for environmental sustainable design	 Facilities and Assets Finance ICT Executive Leadership Committee 	All scope of works include minimum requirements for environmental sustainable design
Create environmental sustainable design guidelines for building refurbishments	 Students Staff Contractors Facilities and Assets 	All campus refurbishment incorporate environmental sustainability design in line with agreed best practice guidelines
Develop minimum environmental sustainable design requirement for new construction	 Students Staff Consults Contractors Facilities and Assets 	All new construction has an equivalent 5-star green star building rating in line with agreed best practice guidelines







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