



UNIVERSITY
OF WOLLONGONG
AUSTRALIA

Facilities Management Division
Environment Unit

Environmental Management Plan Consultation Report

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June 2017

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Contents

1	Introduction / Background	3
2	Consultation Key Findings.....	3
3	Consultation Outcomes.....	3
	Attachment 1: EMP Survey.....	4
	Attachment 2: EMP Focus Groups	7
	Energy and Carbon Reduction	7
	Sustainable Transport.....	9
	Waste Reduction and Recycling.....	11
	Areas for improvement.....	14
	Attachment 3: EMP Pop up Stalls	16

1 Introduction / Background

UOW's Environmental Management Plan (EMP) 2014 - 2016 was reviewed during 2016 and staff and students were invited to provide input in order to inform the priorities for the next UOW EMP 2017-2020. The consultation for the Environmental Management Plan included a Survey, Focus groups and a series of Pop-up stalls.

The EMP consultation encompassed:

1. The UOW EMP **Survey** was conducted via Survey Monkey from 25th May 2016 to 22nd June 2016 involving a total of 225 people
2. **Focus groups** were hosted at Wollongong Campus on 2/8/2016, 10/8/2016, 16/8/2016 and 18/8/2016 and were attended by 32 staff and students.
3. **Pop-up consultation stalls** were hosted at various campuses and approximately 71 people provided input.

2 Consultation Key Findings

The top environmental priorities for UOW that were identified through the consultation were about

- reducing the energy consumption and carbon footprint,
- improving sustainable transport options to UOW; and
- reducing waste to landfill and increasing recycling.

3 Consultation Outcomes

Key themes and broad issues identified in the consultation have been incorporated into the Environmental Management Plan.

There were many detailed suggestions provided during the consultation (refer to the Attachments). The suggestions that have been provided will be incorporated in the Action Plans referred to within the Draft EMP. They will be used in the planning and development of initiatives that are undertaken as part of implementing the EMP.

Attachment 1: EMP Survey

Participation

- The survey was open to staff, students UOW contractors and members of the public
- A total of 225 people participated with 55% students, 44% staff and one was a member of the public.
- 125 students participated (59% were postgraduate students) and there was representation from all Faculties, 99 staff (70% were fulltime), 1 community member also participated
- Majority were from Wollongong Campus (94% of students, 90% of staff),
- Mostly females participated – total of 140 (75% of staff, 54% of students)

Key Findings

- 61% of participants strongly agreed or agreed (30%) that there is a need for the EMP
- 66% of participants agreed that the aspirations “Work towards being self-sufficient in energy and water use; and Work towards achieving zero waste to landfill” were adequate. The top themes of comments by those that thought the aspirations needed to change :
 - Realism/ achievability/timeframes/ resourcing – 19
 - Sustainable transport / Uni work related travel - 12
 - Waste management (reduce, reuse, recycle) – 10
- 72% of participants agreed that the current Environmental Management Plan 2014-2016 functions or areas of focus are adequate for the next Environmental Management Plan. Key themes of the comments by those that thought the functions/ areas of focus needed to change related to the need to include:
 - Sustainable transport
 - Incorporate Social aspects/ incorporate Health aspects/ people
 - Need to address the impacts on our communities not just our footprint
 - Action to address climate change
- The top priority issues were identified as:
 1. Reducing the University’s energy consumption and carbon footprint (61%)
 2. Reducing the amount of waste sent to landfill and increasing the amount of recycling conducted (51%)
 3. Increasing public transport options and access to campus for bikes and pedestrians (39%)
 4. Supporting the campus community to reduce their environmental impacts at UOW (37%)
- Areas requiring immediate action:
 1. Materials management (55 respondents)
 2. Energy/carbon management (32 respondents)
 3. Sustainable transport & parking (24 respondents)
 4. Education/awareness (19 respondents)
 5. Campus environment (12 respondents)
 6. Leadership and accountability, commitment (8 respondents)
 7. Building construction (6 respondents)
 8. Water conservation (5 respondents)

- Areas that respondents were satisfied with the progress on:
 1. Maintaining and improving the campus landscape and bushland areas
 2. Increasing public transport options and access to the campus for bikes and pedestrians
 3. Ensuring the built environment of the campus is sustainable (e.g. sustainable building design and retrofitting)
 4. Reducing the University's water consumption

- Areas that respondents were least satisfied with the progress on:
 1. Purchasing equipment, products and services that have reduced environmental and social impacts
 2. Reducing the University's energy consumption and carbon footprint
 3. Supporting the campus community (staff, students and visitors) to reduce their environmental impacts at UOW
 4. Reducing the amount of waste sent to landfill and increasing recycling conducted by the University
 5. Undertaking environmental and sustainability related research and embedding sustainability into teaching and learning

Participants were asked to comment on the one environmental action that should be addressed now and what they suggest could be done about that issue. There were 117 open responses received and these were grouped according to theme:

1. Materials management
 - **address packaging 14,**
 - **improve recycling 13,**
 - **disposable cups 11,**
 - water bottles 5,
 - food waste 5,
 - composting 3,
 - print reduction 2,
 - furniture reuse 2
2. Energy/carbon management
 - **Renewables 15,**
 - Divestment 6,
 - lighting 6,
 - air-conditioning and thermal comfort 3,
 - green IT 2
3. Sustainable transport
 - improve bus services 5,
 - more parking 1,
 - improve cycle and pedestrian access 3,
 - carpooling 1,
 - traffic congestion 2
 - **general 11,**
 - UOW work travel 1
4. Education and Awareness
 - **awareness 7,**
 - **better communication 7,**
 - training 2,

- engage 3
- 5. Campus Environment
 - habitat management 2,
 - pond habitat management 4,
 - balance open space and Bld 2,
 - community garden 1,
 - smoke free 3
- 6. Building/construction
 - construction vs retrofit 4,
 - construction waste 1,
 - showcase and use internal expertise 1

Attachment 2: EMP Focus Groups

The focus groups explored the top three themes identified in the survey which were Energy and Carbon, Waste and Recycling and Sustainable transport. The strategies and key issues that were identified through these discussions are listed in the following tables.

Energy and Carbon Reduction

Topic	Issue/subtheme	Suggested Strategies & comments	EMP Link
Carbon footprint	Staff (student) workplace travel	<ul style="list-style-type: none"> • Offset schemes internal self-funded and \$ used to fund UOW community initiatives – this could be for travel but also for other things like catering • Highlight the carbon impacts of the travel conducted • Lease vehicle conditions – e.g. lower carbon • Systems to encourage/ support ride share to events or meetings between campuses etc. • Use of electric/hybrid vehicles for UOW fleet 	5.4 Campus Environment
Energy use	Energy reporting	<ul style="list-style-type: none"> • Use data/reporting to provide incentives to work areas to reduce. Faculty reward scheme for good performance • Give recognition to reductions and good practice. • Make data more publicly available • Create an app to allow staff and students to report issues such as lights on or thermal comfort problems • Provide people with access to the data for their buildings • Data access should be linked to teaching 	5.1 Energy and Carbon Management
Energy Use	Use of Solar energy/ alternative energy	<ul style="list-style-type: none"> • Assess the cost benefit of installing onsite solar with the purchase of renewable energy (e.g green energy purchase) Increase use of onsite solar not just roof but also with integrated materials for walls/ windows etc • Create awareness of other energy generating options (e.g corridors that produce energy when you walk on them) • Need more covered outdoor spaces for students – use the roof space to generate solar • Update and create a new renewable energy plan 	5.1 Energy and Carbon Management
Energy Use	Heating and Cooling	<ul style="list-style-type: none"> • Window insulation • Draft proofing of windows in some buildings are needed (e.g Bld 41) • Passive cooling options use instead of HVAC • Personal/individual heating and cooling in Bld 3 a problem not cost effective or efficient. • The impact of thermal comfort on work performance is a HR & WHS issue. This should be studied and addressed. • Review scheduling so that it is automatically adjusted to the season (e.g Bld 35 corridors centrally managed and always set to very cold in winter and not adjusted to the season – should be automatic) • Review and update use of particular rooms – e.g web and dry labs as usage changes and HVAC requirements change accordingly but are not linked 	5.1 Energy and Carbon Management
Energy Use	Switch off	<ul style="list-style-type: none"> • Behaviour change needed. Cognitive dissonance is not here at work so difficult to get people to act. • IT switch off regimes need to be reviewed especially in library and Labs 	5.1 Energy and Carbon Management
Energy Use	Goals	<ul style="list-style-type: none"> • Should link to the Paris Accords. Translate those international agreements to the energy mix and reducing carbon source energy 	5.1 Energy and Carbon Management
Energy	Retrofitting of	<ul style="list-style-type: none"> • Use the SBRC expertise to undertake retrofitting of our 	5.1 Energy and

Topic	Issue/subtheme	Suggested Strategies & comments	EMP Link
Use	buildings and new building designs	<ul style="list-style-type: none"> buildings and also in new building designs • Use of greenwalls and other techniques • Reduce lighting via delamping projects needs to link in and communicate with WHS • Sustainable building guidelines for construction designs • Incorporate ongoing maintenance/ building use costs somehow into the funding model for new buildings so that design decisions that impact on energy use and cost in the long term are adequately considered. 	Carbon Management 5.4 Campus Environment
Teaching and research	Use the university facilities for teaching and research	<ul style="list-style-type: none"> • SBRC retrofitting links • More majors etc. related to sustainability in all degrees 	5.5 Environment Leadership
Marketing	Showcase the good stuff we do	<ul style="list-style-type: none"> • Enviro Awards • Promote the good enviro achievements we are making in all areas • Make it easy to find best practice information 	5.5 Environment Leadership
Awareness and Education	Events and Initiatives	<ul style="list-style-type: none"> • More interactive days with students and staff to improve awareness • Inductions for staff and students – this is the way we do this here. • Competition of ideas from students – (e.g. UNSW – solar power placed on neighbouring properties and rented roof space) • Increase volunteering activities 	5.1 Energy and Carbon Management
Energy and carbon impacts of our activities	Address energy and carbon impacts through procurement and investments	<ul style="list-style-type: none"> • Divestment • Procure lower energy use items • Follow procurement procedure • More reuse and recycling needed including for packaging and clauses in leases required • Better bins that can stack cups and address food packaging volumes. • Investigate the use of soft phones when the phone tender process is due to happen • Review IT procurement processes • Promote swipe to print and reduce the number of printers available in work areas 	5.1 Energy and Carbon Management 5.6 Governance, Systems and Practices
Energy Use	Understand how we perform against other universities	<ul style="list-style-type: none"> • Benchmarking 	5.1 Energy and Carbon Management
Energy use	Learn from other business actions	<ul style="list-style-type: none"> • Lots of great stuff happening with local business (e.g. Stockland Shellharbour renewables) we should be learning from their actions. 	5.1 Energy and Carbon Management
Carbon footprint	Understand our footprint and those of staff and students	<ul style="list-style-type: none"> • Create calculators 	5.1 Energy and Carbon Management
Carbon footprint	Sustainable transport to and from UOW	<ul style="list-style-type: none"> • Sustainable transport promotions • Extend free shuttle services 	5.4 Campus Environment
Carbon footprint	Establish carbon sinks	<ul style="list-style-type: none"> • Plantings on campus 	5.4 Campus Environment
Energy use	Funding & resourcing	<ul style="list-style-type: none"> • Ensure that it is adequately resourced and staffed • Establish a revolving fund where saved \$ are reinvested in more 	5.6 Governance, Systems and Practices

Sustainable Transport

These suggested strategies and comments will be incorporated under either section 5.4 Campus Environment section of the Environmental Management Plan or within the UOW Transport Strategy.

Topic	Issue/subtheme	Suggested strategies & comments
General	Promotion of bus services, train and general transport information is insufficient	<ul style="list-style-type: none"> Better promote buses and train services More education – use flyers, posters, website Better promote events and activities
General	Put more activities and services on campus	<ul style="list-style-type: none"> More activities on campus mean fewer people need to travel Stops staff leaving at lunch
General	Grocery delivery for students in residence	<ul style="list-style-type: none"> Free van service that drops off your groceries – don't carry them on the bus or need to own a car
Shoalhaven Campus	Transport to Shoalhaven	<ul style="list-style-type: none"> Not enough/ infrequent public transport Train station is too far away Transport options/parking for people travelling between campuses Need a shuttle bus from Shoalhaven campus to Nowra CBD
Liverpool Campus	Transport to Liverpool	<ul style="list-style-type: none"> Travel between campuses is going to be difficult, particularly for drivers Limited transport from Liverpool and Campbelltown – only one bus service otherwise have to drive
Student Accommodation	Need better transport for students living in accommodation	<ul style="list-style-type: none"> Students travelling home need cars Bikes for all students in accommodation
Innovation Campus	Need better transport between iC and Wollongong campus	<ul style="list-style-type: none"> Bus is too slow Need transport without cars Shuttle van?
Airport	Airport pick up services	<ul style="list-style-type: none"> Free at start and end of session
Carpool	Carpool pick up locations	<ul style="list-style-type: none"> Have established pick up points for carpoolers – drivers pass these points and pick up passengers. Use an app?
Driving	Pool cars	<ul style="list-style-type: none"> Have pool cars for anyone to use to run errands Maybe use electric cars
Driving/Parking	Park and Ride options	<ul style="list-style-type: none"> Choose locations close to campus and offer a bus or bikes Formalise existing park and ride – fairy meadow, other stops on shuttle routes
Carpool	Carpool website/matching system	<ul style="list-style-type: none"> Have a better carpool matching system to help people find each other Get an app The carpool website is intimidating
Driving	Parent commitments	<ul style="list-style-type: none"> School drop off/pick up is difficult with current parking system Consider the people who have irregular hours/needs and how they get to campus Have locations where parents can drop kids off to catch buses
Buses	Biofuel or alternative fuel	<ul style="list-style-type: none"> Look at alternatives
Buses	Local bus services	<ul style="list-style-type: none"> Lobby bus operators/TfNSW to schedule arrival and departure times to align with Uni start and finish times Need more services for 887 and 1 & 4. Longer running 887 service
Buses	Shuttle bus from the south (Dapto)	<ul style="list-style-type: none"> Have a shuttle bus from Dapto direct to UOW
Buses	Maps and timetables available at bus interchange	<ul style="list-style-type: none"> Have more information at the bus interchange for passengers to pick up and take with them
Buses	More shuttle buses	<ul style="list-style-type: none"> More shuttle buses for NG and Gong Shuttle routes

Topic	Issue/subtheme	Suggested strategies & comments
		<ul style="list-style-type: none"> Look at sizes of buses – bigger where needed, and smaller during other periods of the day
Buses	Need another bus interchange	<ul style="list-style-type: none"> Current one is at capacity and can't cater for more buses Create two or move the existing one somewhere where it can be expanded
Buses	Northfields Ave southern side bus stop	<ul style="list-style-type: none"> Need pedestrian crossing Needs improved fencing to stop pedestrians from crossing or walking along road
Cycling	Salary package bikes	<ul style="list-style-type: none"> Issues with fringe benefit tax Subsidise bikes for students
Cycling	Fix existing infrastructure	<ul style="list-style-type: none"> Graduate house bicycle storage facility needs improvement
Cycling	Have better cycling facilities on campus	<ul style="list-style-type: none"> More bike bases Better bike bases – bigger ones, better shower and locker facilities More bike racks More undercover racks
Cycling	New bicycle users group	<ul style="list-style-type: none"> Need a new BUG Longevity is an issue – no one to carry it on when students go Tie it in with student clubs Advertise
Cycling	Bike Share	<ul style="list-style-type: none"> Should have a bike share scheme available Lots of good international examples Need low rates and overnight hire
Cycling	Mt Ousley Interchange	<ul style="list-style-type: none"> Bike path proposed in preferred option – need to ensure access points are logical Have multiple points off the bridge where people can exit Impact to residents at Dumphries Ave
Cycling	Bike safety	<ul style="list-style-type: none"> Current bike paths and roads are not safe for cyclists No protection from cars
Cycling	Access points and on campus bike paths	<ul style="list-style-type: none"> Pedestrian bridge and kids uni access paths/road are difficult to navigate and dangerous Need a pedestrian bridge that brings you straight into campus Issues with fragmented paths Pedestrian and cyclist conflicts Hard to navigate on a bike around groups of pedestrians Improve main access points to campus Western entrance roundabout can flood with water over road – dangerous New eastern entrance footpath is OK but could be better – connection with rest of campus
Cycling	Bike repair stations	<ul style="list-style-type: none"> Have bike repair stations at iC
Cycling	Inadequate or lack of cycling paths and links to key destinations (e.g. iC, North Beach, CBD)	<ul style="list-style-type: none"> Lobby Council Build a tunnel or overbridge Upgrade link between IC and Wollongong Campus Upgrade path Porter St/Ajax Ave near International House Better links to Fairy Meadow Path behind TAFE Ovals is dangerous, dark and scary – not enough people use the area, locked gates and lack of lighting, needs a security phone
Cycling	Bike workshop	<ul style="list-style-type: none"> Have a workshop on campus for maintaining bikes with skilled mechanics or tools for you to use to fix your own bike
Cycling	Bike donation program	<ul style="list-style-type: none"> Have a donation program for unwanted bikes to be rehomed
Skateboarding	Skate Park	<ul style="list-style-type: none"> Have a designated area for skateboarders and incentives for people to use it
Pedestrians	Bld. 40 pedestrian crossing	<ul style="list-style-type: none"> Cars queue back around ring road because of the crossing

Topic	Issue/subtheme	Suggested strategies & comments
Pedestrians	Maps	<ul style="list-style-type: none"> • Dementia friendly apps and mapping are a good example of what we should be doing with maps on campus
Train	Insufficient/ Infrequent train services	<ul style="list-style-type: none"> • Better access for people to Shellharbour train station • No train to Shoalhaven campus • Limitations with existing train infrastructure and the line • Lobby TfNSW • Train services are infrequent
Parking	Increase parking fees	<ul style="list-style-type: none"> • Increase parking fees to raise funds for more transport initiatives
Parking	TAFE carpark	<ul style="list-style-type: none"> • TAFE carpark is too far away
Parking	Parking arrangements	<ul style="list-style-type: none"> • Have more flexible parking arrangements to suit more people – parents/caregivers, those who arrive late • Reduce parking capacity but make the system work better • Have short term parking areas for people who leave at lunch and return to campus

Waste Reduction and Recycling

Topic	Issue/subtheme	Suggested strategies & comments	Links to Draft EMP
Waste collection	Improve management of waste	<ul style="list-style-type: none"> • Explore option to work with others to set up facilities for local users to sort off site • Review size of bin openings 	5.3 Materials Management
Purchasing	Tender evaluation	<ul style="list-style-type: none"> • Assistance with evaluating the environmental performance of tendering suppliers 	5.3 Materials Management 5.6 Governance, Systems and Practices
Purchasing	Establish some rules for purchasing	<ul style="list-style-type: none"> • Create better ordering systems and consolidation of orders at UOW • Centralise preferred suppliers • Include environmental requirements on preferred suppliers • Leverage suppliers to improve their product offerings • Explore associated packaging related to IT items 	5.3 Materials Management 5.6 Governance, Systems and Practices
Purchasing	Use economies of scale to negotiate better price for environmental products	<ul style="list-style-type: none"> • UOW Pulse compostable cups and plates could be bought by faculties via UOW Pulse to take advantage of economies of scale 	5.3 Materials Management
Furniture	Managing reuse and recycling of furniture	<ul style="list-style-type: none"> • Allocating space on campus for managing furniture reuse in the long term • Removal of any costs associated with reusing second-hand furniture (Remove cost centre mentality) • Marketing the reuse options and create a supporting system to enable this to happen 	5.3 Materials Management
Reuse options	Waste exchange	<ul style="list-style-type: none"> • Create a website for reuse of items across campus not just furniture • Opportunities for goodwill hunting 	5.3 Materials Management

Topic	Issue/subtheme	Suggested strategies & comments	Links to Draft EMP
		events more often	
Organics	Introduce organics disposal options	<ul style="list-style-type: none"> • Introduce options for staff and students to dispose of organic wastes on campus • Investigate onsite options for disposal of organics waste stream • Education/awareness programs needed to reduce contamination • Undertake trials for centralised area and to include paper towels in this stream • WCC workshops promote for at home composting 	5.3 Materials Management
Food waste	Reuse opportunities	<ul style="list-style-type: none"> • Reduce food waste and explore reuse opportunities. It is important for students. Maybe a Illawarra food hub partnership with the student body to support food rescue. • Reward system for participating 	5.3 Materials Management
Avoid use of single use items	Coffee cups	<ul style="list-style-type: none"> • Explore options for introducing reusable cups • Promote and support incentives for reusable cups • Encourage use and make it more accessible • Offer discounts and rewards for cup use • Create wash up stations at café's • Alternatives to reusable cups should be compostable only • Look at branding to cover the costs of the cups 	5.3 Materials Management
Avoid use of single use items	Water bottles	<ul style="list-style-type: none"> • Water fountains and reusable drink bottles • Promote and support incentives • Encourage use and make it more accessible • Spotting refills and rewards using technology • Marketing refill locations and brand 	5.3 Materials Management
Plastic bags	Reduce plastic bag use	<ul style="list-style-type: none"> • IGA and food hall • Make campus plastic bag free • Plastic bag recycling facilities 	5.3 Materials Management
Office paper use	Reduce office paper consumption	<ul style="list-style-type: none"> • Explore printing options to reduce paper use which will also reduce toner use (purchasing consideration for IMTS) • Explore paperless processes 	5.3 Materials Management
Tenant and contractor waste and procurement	Better manage the procurement of items used by tenants and also the disposal of waste	<ul style="list-style-type: none"> • Ensure tenants can only use recyclable or compostable packaging for takeaway foods and drinks • Policy creation for contractors and tenants to comply with regarding purchasing and waste disposal • Make tenants responsible for the true cost of back of house recycling and waste disposal • Address contractor dumping by offering training to staff and introduce them to other environmental management 	5.3 Materials Management 5.6 Governance, Systems and Practices

Topic	Issue/subtheme	Suggested strategies & comments	Links to Draft EMP
Increase awareness of existing recycling options available	Promote recycling options available to all UOW operations	<ul style="list-style-type: none"> • Create awareness and promotional materials to educate staff about current recycling options available for all UOW operations 	5.3 Materials Management
Marketing	Promote of reduction initiatives	<ul style="list-style-type: none"> • Use of hand dryers rather than paper towels • Promote and make more visible how can recycle and what can be recycled • Use student involvement and have stalls at lunchtimes • Use the MyUOW app to promote 	5.3 Materials Management
Coffee pod disposal	Coffee pods	<ul style="list-style-type: none"> • Create a centralised coffee pod collection process 	5.3 Materials Management
Awareness and Education	Events and Initiatives	<ul style="list-style-type: none"> • More interactive days with students and staff to improve awareness • Inductions for staff and students 	5.3 Materials Management
Leadership	Awards and recognition	<ul style="list-style-type: none"> • Recognise good practice and champion to raise the profile, needs to be an ongoing resource. • Support champions to empower others 	5.5 Environmental Leadership 5.6 Governance, Systems and Practices
Waste reduction and recycling	Waste and recycling reporting	<ul style="list-style-type: none"> • Use data/reporting to provide incentives to work areas to reduce. Faculty reward scheme for good performance • Give recognition to reductions and good practice. • Link to key performance indicators for faculties 	5.3 Materials Management 5.6 Governance, Systems and Practices
General	Marketing	<ul style="list-style-type: none"> • Long term strategy to protect UOW reputation by green investment (e.g. divestment) • Need to not just look green but be green 	5.5 Environmental Leadership
General	Research	<ul style="list-style-type: none"> • Link in with global challenges • Have a budget for research 	5.5 Environmental Leadership
General	Env. Advisory Committee	<ul style="list-style-type: none"> • Need to have authority to attract the right people • Utilise internal expertise on EAC • Involve externals on the committee 	5.5 Environmental Leadership 5.6 Governance, Systems and Practices

Areas for improvement

The focus groups also discussed the strategies from the last EMP that were not achieved or had little gains and feedback and suggestions were provided on possible improvements.

Topic	Suggested strategies & comments
Recognition of staff & student action	<ul style="list-style-type: none"> • Need to establish an award, recognition of the award and attempt get it integrated into the VC awards.
Marketing and Leadership	<ul style="list-style-type: none"> • Leverage the value of our enviro and sustainability activities on brand equity • Promote research in the sustainability and environmental issues. • Marketing use the marketing school to have a project to communicate this stuff. • Tap into the “Image of the University” to get the attention of the University leaders to importance of environmental issues. • Ranking tools. We need to convince the University leaders to try and lead the pack in terms of the external ranking indicators of the environment. • UOW needs to be walking the walk and need to be leaders in environmental sustainability. • Top 1% need to link to this goal and demonstrate we are a leader in environmental sustainability
Research and Teaching	<ul style="list-style-type: none"> • Global challenges needs to have environmental stuff imbedded into at least one of these strands. • Revisit how we show the links with research – what is in it for them. Links with groups doing energy, research in environmental engineering, using students research. Create opportunities and networks. • Links with health faculty and the transport issues. Student project opportunities. • Come up with some questions that students are interested in. Potential honour subjects (honours coordinator) • Use expertise of the University within on ground actions, turn the gaze inward and use student and staff expertise (e.g business school in relation to management systems)
Communications and networks	<ul style="list-style-type: none"> • Students spoken to using student centric medium – e.g. my UOW app. • Isolation of environmental champions a problem need to create a connected community • Keep cup campaign bought issue of waste to people’s minds, need to do big attention seeking actions • Communication within the university is lacking. Staff meetings and face to face communications are limited in Faculties/Schools. Organisational issue. • Information flow needs to be reviewed to make deans and directors interested and they can pass the information out. Key performance indicators? • Better awareness and importance allow people to see the big picture (e.g climate action week) • Utilise environmental alliances with SBRC and AUSCCER • Data access needs to be available so staff can see clearly what is being used and where areas are doing good to promote this

Topic	Suggested strategies & comments
	<ul style="list-style-type: none"> • Needs to be aspirational communication rather than how did we do it and switched to we are green and this is how we do it here. • Coordinate actions with student clubs that have an environmental interest • Need to support finding a sense of place – e.g. volunteering and being involved
Resourcing	<ul style="list-style-type: none"> • Resourcing of the EMP needs to be identified. In order to make the EMP achievements happen. • Ongoing costs should be factored into the upfront costings of new buildings
Representation on EAC	<ul style="list-style-type: none"> • Representatives should include senior leadership roles, external community, aboriginal representatives and WHS.
Other	<ul style="list-style-type: none"> • Include an item in the voice survey to measure the importance of environmental issues to students. Student Survey – environmental interest. • Divestment • Unless people are using the building sustainably then it can potentially limit the sustainability of a well built and sustainable designed building

Attachment 3: EMP Pop up Stalls

Pup up stalls were hosted at Wollongong campus (2nd August 2016 at The Yard), 24th August 2016 in Bld. 40 student space, 25th August 2016 at McKinnon Lawn), Shoalhaven campus (2nd-4th August 2016 and Innovation campus (1st September 2016)

The Pop- up stalls allowed people to identify what they considered as the top three environmental priorities for the university.

Priorities identified at the pop-up stalls are listed in the table below:

Priorities	Wollongong Campus				Innovation Campus 1/9/2016	Shoalhaven Campus 2/8/2016 - 4/8/2016	Total
	22/8	24/8	25/8	Total	Total	Total	
Reducing the University's energy consumption and carbon footprint	10	4	5	19	11	8	38
Reducing the University's water consumption	2	1	1	4	4	3	11
Reducing the amount of waste sent to landfill and increasing recycling conducted by the University	7	3	8	18	6	8	32
Purchasing equipment, products and services that have reduced environmental and social impacts	1	0	0	1	7	5	13
Undertaking environmental and sustainability related research and embedding sustainability into teaching and learning	6	1	0	7	6	3	16
Ensuring the built environment of the campus is sustainable (e.g. sustainable building design and retrofitting)	8	3	5	16	8	10	34
Supporting the campus community (staff, students and visitors) to reduce their environmental impacts at UOW	0	0	0	0	5	2	7
Increasing public transport options and access to the campus for bikes and pedestrians	13	4	3	20	10	10	40
Maintaining and improving the campus landscape and bushland areas	5	2	2	9	5	9	23
Total	52	18	24	94	62	58	214
Approx. number people				31	21	19	71

Open comments and suggestions that were received at the pop-up stalls are listed below:

Wollongong Campus

Environmental issues that you think are the most important to address at Wollongong Campus

- More information on how to be friendly to the environment, especially for international students
- Set discount on purpose use takeaway containers purchased from stores at UOW (e.g re-useable containers that are accepted by the outlet for reuse)
- The use of portable heaters in air-conditioned offices
- Disposable coffee cups are not recyclable
- Incentives for reusing food and drink containers. Change the way we use through education

- Carbon footprint could be most effectively addressed by reducing staff air and international travel particularly between international campuses
- Less plastic used by shops and restaurants
- Is there a way to compact and then reuse our own paper and cardboard waste?
- Address the transport to university issues
- Switch off lights in the buildings on the weekends in particular

Innovation Campus

Environmental issues that you think are the most important to address at Innovation Campus

- Pedestrian crossings on the roads at Innovation campus
- Better bike link to the Wollongong Campus

If you could change the environmental management of an issue at UOW immediately what would it be?

- Promote better links with buses and trains to reduce traffic congestion and single person car travel
- Better transport links between Wollongong and Innovation Campus (Buses and bike bank)
- Recycling management at Innovation campus –“ it all goes into the one bin after collection as there is no bulk recycling bins at our building”
- Lobby for better bus services to and from Campbelltown
- Coffee pod recycling
- Sustainable procurement – local food and local business
- Community garden at Innovation campus next to iAccelerate
- Advocate for sustainable animal agriculture and fishing practices

Shoalhaven Campus

If you could change the environmental management of an issue at UOW immediately what would it be?

- Recycling bins
- Compost
- Garden
- Lack of transport and bike tracks to Shoalhaven campus
- Visible water recycling like water tanks
- More recycle bins especially in this building (food court)
- Have NSP disposal bins available (Needle syringe program)