



# **Dublin City University**

Reassessment for Green Campus Flag November 2017

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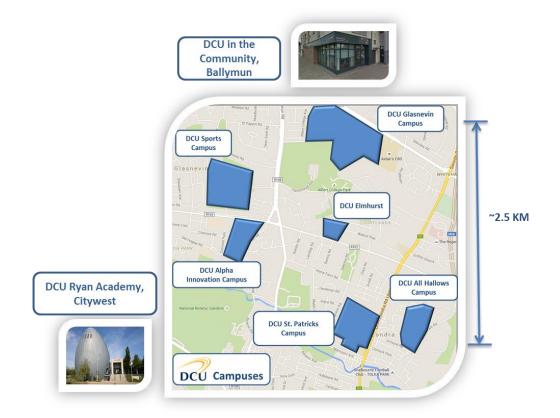
# 1. Introduction

Dublin City University, originally established in 1989 by the University statue, is located to the north of Dublin City and is the most significant and comprehensive provider of university education on the rapidly growing and economically important Eastern corridor.

There have been some significant changes at DCU since the initial An Tasice Green Flag was awarded in July 2014. September 2016 saw the completion of the process by which St Patrick's College Drumcondra (SPD), Mater Dei Institute (MDI) and Church of Ireland College of Education (CICE) were fully incorporated with DCU. From this date, all students and staff of St Patrick's College, Mater Dei Institute and the Church of Ireland College of Education are students and staff of DCU.

Two of the most significant changes arising from Incorporation are the establishment of a new Faculty of Education that will be known as the "DCU Institute of Education", the first faculty of education in an Irish university and one of the largest in Europe; and an enhanced Faculty of Humanities and Social Sciences which has a much broader array of subjects on offer.

In addition DCU now has a larger community and a multi campus structure see figure below. It has a stronger, more visible, presence in North Dublin, St Patrick's College, Drumcondra campus is now known as DCU - St Patrick's Campus. DCU All Hallows campus, also in Drumcondra, is now the third academic campus of DCU.



#### Figure 1: DCU Campuses 2017

This newly expanded DCU is well equipped to support its approximately 16,500 students with a continuing focus on personal, academic and professional life-skill development. The **DCU Access** 

**programme** was established more than two decades ago and identifies and supports students from groups currently under-represented in higher education. In 2017, DCU supported nearly 1,300 access students, making it the largest such programme by far in any Irish university.

DCU is the first Irish university to be designated as a "**University of Sanctuary**", awarded by the City of Sanctuary, in recognition of a range of initiatives demonstrating commitment to welcoming asylum seekers and refugees into the university community and to fostering a culture of inclusion for all.

The **Age-Friendly University (AFU)** initiative at DCU is committed to widening access to higher education, and this includes enhancing the lives of older members of the community through innovative educational programmes, research agenda, curriculum development, online education, health and wellness activities, arts and culture programme and civic engagement opportunities.

2017 seen the launch of the new DCU Strategic Plan: TALENT, DISCOVERY, AND TRANSFORMATION (2017 – 2022)<sup>1</sup>. In presenting this plan the DCU President Prof. Brian MacCraith said

"Our purpose must surely be to address the major challenges facing the world today and to develop the talent and knowledge that society needs."

Continuing its mission statement DCU aims to transform lives and societies through education, research, innovation and engagement.

DCUs vision is to be a globally significant University of Transformation and Enterprise that is renowned for:

- the development of talent;
- the discovery and translation of knowledge to advance society;
- its focus on creativity and innovation;
- the advancement and application of technology, and
- its commitment to sustainability.

DCUs commitment to sustainability is clearly articulated in one of the nine strategic goals for the University over the next five year – Strategic Goal : Place sustainability at the core of the university.

At the core of the Strategic Plan 2017-2022, DCU will seek to further develop and implementation the DCU Sustainability Plan created by a cross-institutional Sustainability Council. This council will also play a key role in monitoring the implementation of the plan.

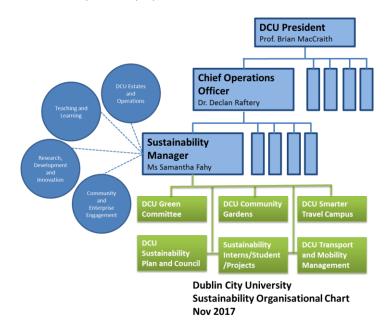
From the narrower environmental perspective of sustainability, DCU will seek to embed best practice across the broad range of DCU multi-campus operations. It will establish ecological footprint metrics and set ambitious targets to reduce these. As an extension of this objective, a specific campus will be identified and developed as a carbon-neutral exemplar campus. Sustainability will play a key role in academic and research activities, with a view to enhancing the insight and commitment of students, the principles of sustainability and sustainability literacy will be integrated into the undergraduate curricula. Specific degree programme(s) will be developed at postgraduate level. Research focusing on sustainability will continue to be focused on and fostered. Such activity is likely to build on existing strengths and existing international collaborations.

<sup>&</sup>lt;sup>1</sup> http://www.dcu.ie/sites/default/files/marketing/digitalmedia/presidents-office/strategic-plan/index.html

	Specific Actions: Over the next 5 years we will	Indicators of Success/Progress
Sustainability Plan	8.1 Create a DCU Sustainability Plan that will be a roadmap for operating a healthier and more sustainable University, including responsible management, for students, staff, and the local community. A cross-institutional Sustainability Council will be established to support the creation of the plan and to monitor its implementation.	<ul> <li>Establishment of Sustainability Council</li> <li>Completion &amp; dissemination of Sustainability Plan</li> <li>Roll out of implementation plan</li> <li>Annual reports on achievement of goals set</li> </ul>
Sustainable Operations	8.2 Embed <b>Sustainability as a key driver</b> in DCU operations including building management, energy, water, CO2 emissions, transportation, operational resilience, public realm spaces and in the construction of new buildings. The new challenges facing DCU in operating a decentralised campus will have to be taken into account here.	<ul> <li>Achievement of ISO 50001 certification for energy &amp; wat</li> <li>Retention of An Taisce/FEE Green Campus Flag</li> <li>Levels of sustainable commuting to, from &amp; between campuses</li> <li>Implementation of NZEB standard for all future buildings</li> </ul>
Curricular Integration	8.3 Integrate Sustainability Principles, Literacy and Awareness into the student curriculum. This will involve working closely with Faculties and the Education Committee to establish the optimal approaches to achieving this objective. There will be a particular emphasis on awareness of the UN Sustainable Development Goals (SDGs).	<ul> <li>The number of degree programmes with Sustainability components integrated</li> <li>The number of students participating in such degree programmes</li> <li>Creation of optional (online) sustainability module</li> <li>Develop of a Sustainability Engagement digital credential</li> </ul>
Ecological Footprint	8.4 Establish <b>Ecological Footprint Metrics</b> for the University and set ambitious targets to reduce these.	<ul> <li>Establishment of Footprint Metrics for each campus/ faculty/unit</li> <li>Annual reports on targets achieved</li> <li>Measures of student engagement &amp; behavioural change</li> </ul>
Research Focus	8.5 Promote and support Sustainability Research across the University. This will include, for example, our involvement in the Global Consortium for Sustainability Outcomes (GCSO) and the ongoing work of the DCU Water Institute.	<ul> <li>Sustainability research metrics</li> <li>International partnerships in sustainability</li> <li>Impact case studies</li> </ul>
Carbon- Neutral Campus	8.6 Develop a DCU campus as an exemplar Carbon Neutral Campus.	<ul> <li>Identification of optimal campus &amp; required implementation plan</li> <li>% progress to carbon-neutral status for exemplar campus</li> </ul>

Figure 2: DCUs commitment to Sustainability at the Core as identified in the DCU Strategic Plan 2017-2022.

Building on its existing structures within DCU (see figure below) a cross institutional Sustainability Council is being established reporting to DCU Executive Committee/DCU Governing Authority with representative from each faculty and key operational units.



#### Figure 3: Current organisational structure for Sustainability at DCU

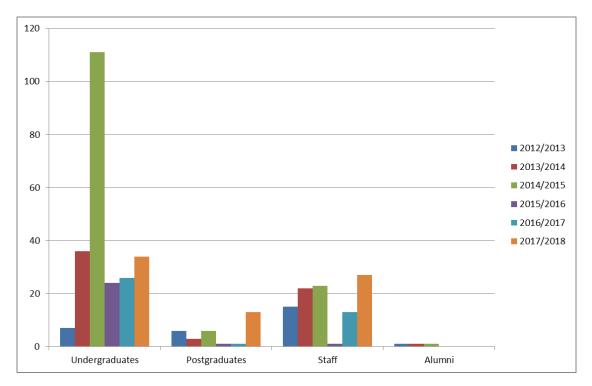
The DCU Sustainability Council will be responsible for the further development, approval and implementation of the DCU Sustainability Plan. It is planned that this Council will be in operation from early 2018.

# Green Campus at DCU

The awarding of the first green flag to DCU (Glasnevin Campus) in July 2014 had a significant impact on all campus users i.e. DCU staff and students but also local community and visitors to the campus. It raised the profile of sustainability actions across campus and with Incorporation has proven to be one of the linking factors behind which all staff and students can get behind. With this view of cooperation and collaboration DCU aims to create a One DCU Green Campus across all its campuses rather than focus on individual flags for individual campuses. It is hoped that in 2017/2018 that the St. Patricks Campus can be added to the DCU Green Campus Flag and that in 2018/2019 the All Hallows campus can follow suit.

# 2. Green Campus Committee

In January 2012, DCU formally began its campaign towards 'Green Flag' accreditation with An Taisce. A Green Committee was set up comprising of 15 staff and students. The committee was formed following an email call to all staff and students. All those who expressed an interest in engaging with the Green committee were accepted. Over the years since we have looked a difference ways of engaging the DCU Green Committee from leaving it to the students themselves to our most recent google survey. As can be seen from the figures below, apart from the large surge in 2014 (the year of our first assessment !) the Green Committee on campus has ups and downs! One of the ongoing challenges is how to manage the initial large groups and their hugely varying expectations. It is hoped that the approach taken in 2017/2018 will aid this process by identifying in advance that membership of the Green committee is not passive and identifying some key project in advance and getting feedback on levels of interest. It is also expected that the establishment of the DCU Sustainability Council will aid the operation of the Green Committee by giving it a direct channel of report to DCU senior management.





# Review of 2016/2017 Committee

The Green Committee at DCU is renewed each year early in semester one. With a focus on the New DCU being One DCU it was agreed that there would be one Green Committee bringing together representatives from all campuses. A call to all staff and students via email was circulated early in term 1 with a very positive response. Below is a list of those who indicated that they wished to be involved in the DCU Green Committee. In addition the students established a new sustainability society - DCU's Students for Sustainability in Human Lifestyles (SSHL), with the aim to not only advocate and educate, but to equip students with sustainability skills to last a lifetime to aid the

individual to live a minimal damage and conscious lifestyle. Skills lessons and workshops will include bicycle riding/repairs, seminars, vegan cooking class, permaculture, urban gardening, work in the DCU community garden, trips to sustainable communities & working via WWOOF on organic farms and a range of other groovy stuff.

Table 1: DC0 Green committee Members 2016/20	
DCU Green Committee Members 2016/20	017
Mariane Galpo	Sam Fahy
Masters in Management Business	Sustainability Manager at DCU
Co-Chair Green Committee	Co-Chair Green Committee
Rosalind Duke	Saorla Kavanagh
Lecturer (AHC)	PhD Student at DCU
Conall Ó Dubihir	Siobhan Sleeman
Stockholm Resilience Centre,	DICE Project Manager
Stockholm University	SPC
Interim @ Sustainability DCU Summer 2017	
Ann-Christin Arras	Eleanor Hulm
Heidelberg University in Germany	DCU SSHL
Interim @ Sustainability DCU Summer 2016	
Cody Byrne	Eimear Maguire
DCU SU VP Welfare	DCU SU VP Engagement & Development
Manus Mc Loughlin	Eamonn Carroll
DCU SU VP Education & Placement	Undergrad SPD
Rita O Dwyer	Seán James Walpole
SEN	Undergrad DCU
Minako Muraki	Killian Barry
Exchange Student	GDip Learning Support & Inclusion
Antonio Pupulin	Gráinne Smith
BT	BUPY2
Ana Jaranay	Le Min Chan
STEP (Staff)	Actuarial Maths
Effat Ashi	Roxana Pedan
Financial Maths	Business Studies
Yan Jun Chua	Oraianthi Touma2atou
Economics, Politics & Law	MTT
Arjon Sengh	Muthanna Kodana
MSBN	MSBM
Maria Barry	Ross Kiernan
Post Doc (SPC)	MPS
Jack Philips	Cara Cavanaugh
BMMS	MSc
Bisimwa JP	Ryan Plaitts
International Development	Maters Jounalism
Thomas McCloughlin	Susan Pike
Lecturer (SPC)	Lecturer (SPC)
Andrea Cleary	Conor Maguire

Table 1: DCU Green Committee Members 2016/2017

Lecturer (SPC)

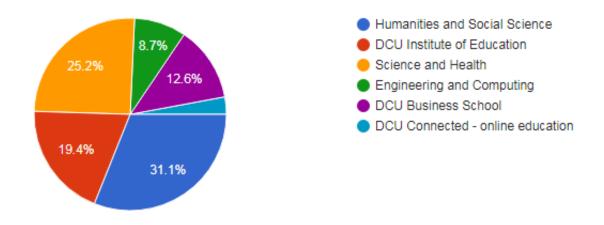
There was an initial introductory Green Committee talk/meeting on both the DCU Glasnevin and SPD Campuses which were well attended by both staff and students. At these meetings the achievements of the previous year were reviewed and plans for 2016/2017 were discussed. While

DCU SIPTU Rep on Green Committee

there were several meeting called throughout the year it proved difficult to identify times/places that attracted a critical mass and hence several meeting required parallel processing i.e. the same info communicated to small groups on different campuses. While this was necessary in year 1 of incorporation to help manage the amalgamation, assuring members of all campuses that their contribution was as important as any other, it was not particularly effective for enabling discussion and debate. Asynchronous meetings, website, email and social media communications were used to circulate the message and activity of the committee within DCU.

# Outlook for 2017/2018 Committee

A different approach will need to be taken in 2017/2018 with particular emphasis in getting the entire group together to capture and communicate the diversity of the whole new DCU student body. Over the summer 2017, with the help of Conall Ó Dubihir, an interin working with Sustainability DCU from the Stockholm Resilience Centre at Stockholm University, significant work has focused on how to engage and facilitate a multi-campus green committee. The outcome has been the development of an online platform for the capturing and priortisation of activities as well as a remote participation methodology for online meeting. Appendix 1 provides a short report on the new 2017/2018 committee. There have been over 100 responses from right across campus



#### Figure 5: Breakdown of responses across DCU Faculties

The figure above shows the breakdown of the response rate to the online Sustainability/Green Committee. The table below compares this with the percentage of student in each faculty – this would appear to indicate that the response rate is in line with the representation of students with perhaps less student responding from the Business School and more from the Humanities & Social Sciences.

Faculty	Percentage of student 2016/2017	Response rate
Humanities and Social Sciences	26%	31.1%
Science and Health	23%	25.2%
DCU Business School	22%	12.6%
DCU Institute of Education	17%	19.4%
Engineering and Computing	12%	8.7%

There is a good breakdown across Staff, postgrads and undergrads and as well as giving their input on different projects there was also the opportunity to indicate if they wanted to join the Green Committee as can be seen in the table below.

# Table 3: Breakdown of respondents

		Membership	Membership of Green Committee		
Role in DCU	Total	Maybe	No	Yes	
Postgraduate Student	16	8	3	5	
Staff	40	11	13	16	
Undergraduate Student	47	15	11	21	
Grand Total	103	34	27	42	

As is mentioned in the report is it is viable to coordinate a committee of ~74 members and so it is proposed to create working groups to focus on specific tasks. A proposed list of working groups has been circulated back to all interested parties along with a request for nominations for working group coordinators.

It is planned that at least some of these meetings will align with DCU SU Green Day events with the SU VP for Engagement (Siobhán Nic Thaidhg, Vice-President, Engagement and Development) also sitting on the DCU Green Committee. Note that these events are being co-supported by the DCU SU and the Union of Students under the EU funded Students Achieving Valuable Energy Savings (SAVES) programme.

#### **Green Committee Associations**

DCU Green committee has several links and associations

Organisation	Activity
Cloughjordan Eco Village	Memo of Understanding, Working together on shared learning journey.
DCU Sustainable Living Society	Strongly linked to green committee and activities to promote sustainability to student body
DCU Students Union	Work together with Sustainability and Green Committee to communicate message and organize and support events
Global Consortium for Sustainability Outcome (GCSO)	The Global Consortium for Sustainability Outcomes is a non-profit international consortium of universities that collaborate to implement and scale solutions to sustainability challenges. GCSO membership spans seven countries on three continents, enabling universities to work together in partnership with each other and with governments, businesses, schools and NGOs.
Sustainable Energy Authority of Ireland (SEAI)	DCU have several links to SEAI including grant aid under the Better Energy Communities Awards, as members of the Better Energy Communities Network, and also working with SEAI to increase awareness of energy reduction and efficiency by DCU Staff through energy awareness workshops

Organisation	Activity
Union of Students of Ireland (USI)	DCU is one of the four universities participating in the
	EU funded SAVES (Students Achieving Valuable Energy
	Savings) Programme in conjunction with DCU
	Residences.
Other third level institutions	DCU participated in several forums and event where it
	works together with other HEI's to develop and delivery
	the sustainability message! Eg coffee cups campaign.
An Taisce Green Communities	DCU and particularly DCU community gardens work with
	the An Taisce Green Communities team to provide
	access and support for project in the community.
Mens Shed Association & Ballymun Mens	DCU is working together with the Mens Shed association
Shed Association	and Ballymun Shed to establish a Shed on the DCU
	Community Garden.
Dublin City Council	DCU Sustainability/Green Committee have several
	engagements with DCC including the removal of hot
	water from public sanitary facilities, refurbishment of
	sheds on the DCU Glasnevin Community Garden and the
	Adopt a Street programme
Drumcondra Tidy Towns Association	DCU Sustainability/Green Committee are working with
	the Drumcondra TT Ass to help increase biodiversity on
	the Drumcondra facing perimeter of St. Patricks Campus
	including new flower baskets, propagation of native ivy,
	support maintenance of DTT planters etc
Phibsboro Tidy Towns Association	DCU Sustainability/Green Committee are working with
	the Phibsboro TT Ass to raise awareness on waste and
	water issues
The DCU Vegan Society	To support positive choices in the DCU restaurants
DCU Cycling Club	To promote cycling facilities on campus and intercampus
IBikeDCU Society	To promote biking, basic skills incl rules of road etc.
Smarter Travel Campus Group	Working to achieve a 90% of campus users using a
	sustainable form of transport.
DCU Office of Student Life	Several linkages including sustainable bottle/cups,
	community employment and engagement
Rediscovery Centre	Several linkages including weekly bike clinics, fashion
	workshop and education and awareness raising
	programmes.
North Dublin Chamber of Commerce	Working on sustainable project implementation
(NorDubCo)	including hot water and policy recommendations
RCE Dublin	RCE Dublin is coordinated by Dublin City University
United National Regional Centre for	(DCU) and its partnership includes educational
Expertise in Education for Sustainable	organisations (DCU, Educate Together), Public bodies
Development	(An Taisce, Dublin City Council), industry-academia
	networks (Sustainable Nation) and non-governmental
	organisations (FightingWords, Exchange House Ireland
	and ECO-UNESCO).
National Transport Authority	Smarter Travel Campuses programme and several
	support awards to improve transport related initiatives
	at DCU

# 3. Environmental Review

There have been major changes at DCU over the past number of years with the expansion of the campus with student population increasing by over 32% (figure 6) and estimated to reach 22,000 by 2026. In addition two additional academic campuses have been added at St. Patricks and All Hallows both in Drumcondra (figure 1 in Introduction). While nominally during this phase the DCU Green Committee is focusing on the Water and Transport themes, work has continued on all themes and in many such as energy has even increased further.

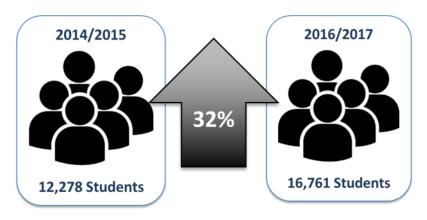


Figure 6: DCU Student pollution growth through Incorporation



Figure 7: DCU Campus Development 2017

DCU in 2017 encompasses 5 primary campus locations with a ~2km radius. With 75 buildings dating from 1680 – 2016 across 128 acres there are many challenges and opportunities. In this section we report progress on environmental performance across the DCU academic campuses – Glasnevin, St. Patricks and All Hallows for Energy, Water, Waste, Biodiversity and Transport.

# Energy

DCU continues to work toward its agreed target of 33% energy reduction by 2020 on 2010 figures and has undertaken several infrastructural projects include LED retrofit, insulation upgrades, building fabric and glazing upgrades with several more in the pipeline.

The primary factors influencing energy consumption are :

- Increase in population (84% since 2007 )
- Increase in footprint (30% 2017 +18% by 2020)
- Increase in demand (Living Campus)
  - Increased student residences
  - Campus operation 365 days per year
  - Library pilot open 24/7

Over the past year DCU has reviewed its energy manage system and to enable greater clarity energy reports are now broken down across the following areas:

- 1. DCU Research Buildings
- 2. DCU Educational Buildings
- 3. DCU Support Buildings
- 4. DCU Campus Residences
- 5. DCU St. Patrick's Campus
- 6. DCU All Hallows Campus

This new scheme establishes 2016 as a baseline and DCU has ambitiously set a target of 35% energy efficiency improvement by 2020. Monthly reports on electricity and gas usage are available – See samples below.

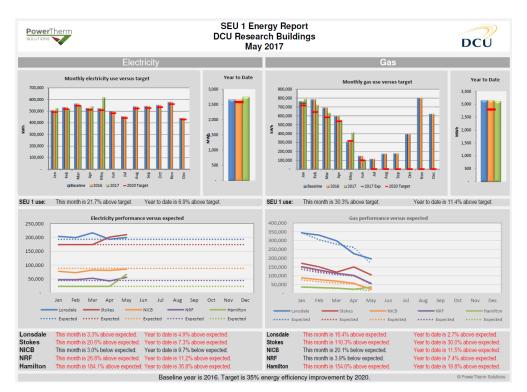
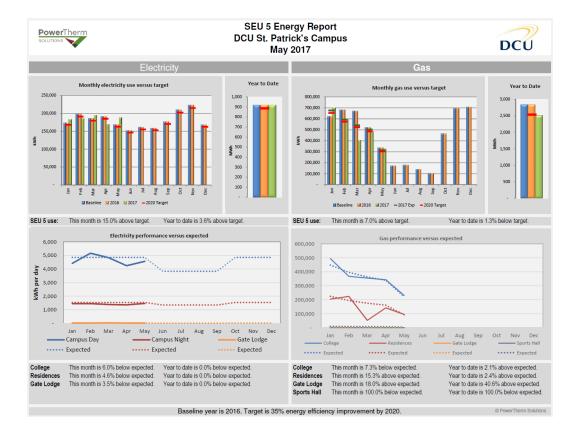
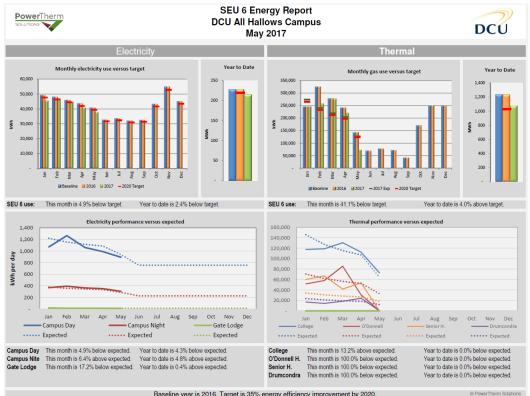


Figure 8: Monthly report for Energy and Gas usage





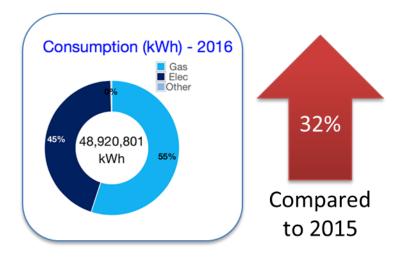


Baseline year is 2016. Target is 35% energy efficiency improvement by 2020.

Figure 10: DCU All Hallows Campus

The finer grained information enables the DCU Energy Management Team to deliver targeted initiatives for specific buildings and building types and usage.

In 2016 the total consumption across all the DCU campuses rose by 32% (figure 7). This of course is predominantly to the expansion of the campus.



## Figure 11: DCU Energy Consumption 2016

As with all public sector bodies DCU makes annual returns to SEAI under the energy consumption in the public sector scheme. The DCU report based on the data collected through the monitoring & reporting system for 2015 and 2016 can be seen in the figures below.

The 2016 report indicated that DCU is at 32% toward the 2020 target of 33%. We do however anticipate that there will be an upward trend in 2017 due to the increased activities on all campuses we do however estimate that we will continue to reach our 2020 target of a 33% reduction over 2010 levels across all campuses.



#### Figure 12: DCU 2015 SEAI Energy Efficiency - Progress to 2020 Report



Figure 13: DCU 2016 SEAI Energy Efficiency - Progress to 2020 Report

## Water

With a specific focus on addressing water as a theme in 2016 DCU commissioned LowFlow to undertake a full audit of water consumption on the St. Patricks and All Hallows Campuses. In addition Leak detection surveys were undertaken on Glasnevin campus following the previous years audit. As can be seen from Fig 17 below, Glasnevin campus reduced water consumption via leak fixing, significantly more leaks have been addressed on the Glasnevin campus as identified in fig 13 which should result in significant water saving in the 2017 report. Figure 18 shows the inclusion of the St. Patricks campus which has an estimated annual consumption of 21,024m3 following the fixing of a major leak. Due to meter faults on the All Hallows campus data was not available for 2016 reports, it will be included for 2017.

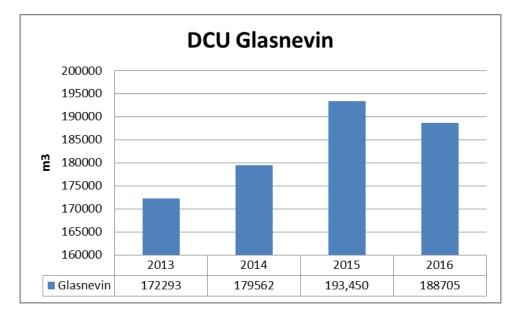


Figure 14: Total Water Consumption in DCU Glasnevin 2013 -2016

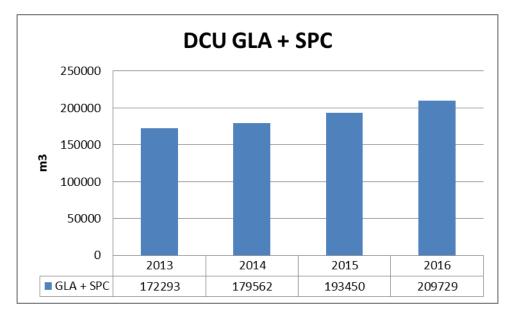


Figure 15: Water Consumption for DCU Glasnevin + DCU St. Patricks

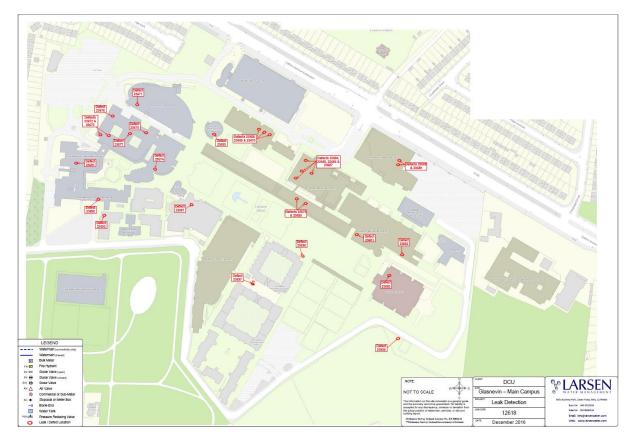


Figure 16: Leak detection survey located three external/mains leaks and twenty-six internal defect on the DCU Glasnevin network.

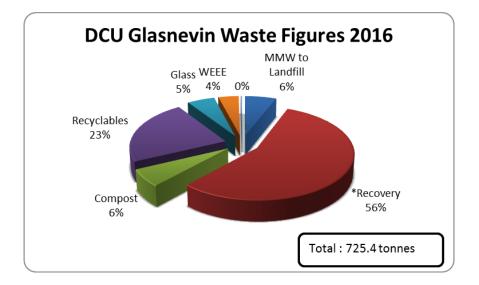
Figure 19 above shows the location and scale of the leaks identified on the Glasnevin campus with similar detail available for the other campuses. Further monitoring is being undertaken across all campuses in 2017/2018 and DCU will include water as part of ISO50001. We therefore expect significant improvements in our next report.

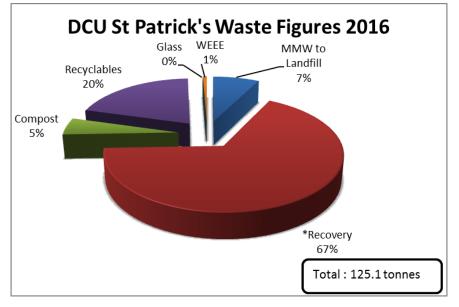
# Waste

DCU continues to closely monitor its waste and is working towards reducing total waste. The table below identified the progress or lack thereof made between 2015 and 2016.

	MMW to	o Landfill	*Reco	overy	Com	post	Recycl	ables
2016	43.092		405.329		44.241		165.198	
2015	35.9		389.7		52.3		157.9	
	Gla	ass	WE	EE	C 8	k D	Tot	al
2016	37.732		28		1.8		725.392	
2015	53.4		26.8		2.36		718.36	

Table 4: DCU Glasnevin Waste for 2015 and 2016 in metric tonnes.





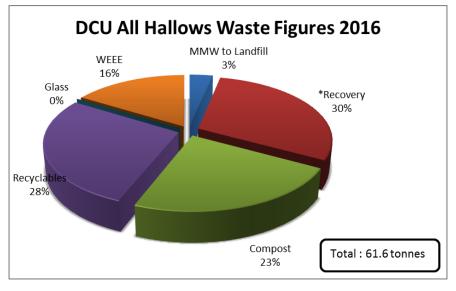


Figure 17: DCU Campus waste for 2016

# **Biodiversity**

DCU has not been in a position to patriciate in the annual BioBlitz due to conflicts in timings i.e. our student body had not returned from break when it was happening. We are however continuing to monitor our potential invasive species (see table below) on Glasnevin campus and this is being extended to all campuses. In 2016/2017 this has been done ad hoc and therefore a full review will be required in 2017/2018.

Species	Common Name	Invasive	Other Info	Where	What action we are taking
Acer pseudoplatanus	Sycamore maple	Potential	Listed as potential by NBDC, does not appear to be a threat however.	Throughout campus	Monitoring
Clematis vitalba		Potential	Can "suffocate" other plants, would recommend removal or close monitoring		Monitoring
Cornus sericea / alba		Potential			Monitoring
Fallopia japonica	Japanese Knot weed	Confirmed	Listed as one of the World Conservation Units "Worst Invasives". Would recommend eradication from campus.	SPC (beside ERC Centre on Milbourn ne Ave)	Treating and Monitoring
Gunnera tinctoria	Chillian Rubarb	Confirmed	Can lead to reduced biodiversity and "local extinction", would recommend removal from campus	on ballymun avenue opposite Bea Orpen	Monitoring
Hyacinthoides hispanica		Potential	Can take over native bluebell, would recommend removal or close monitoring		Monitoring
Libertia formosa		Potential			Monitoring
Petasites fragrans		Potential	Considered "Potentially Invasive", but also "serves as a winter food source for		Monitoring

Table 5: Potential Invasive Species at DCU Glasnevin

			bees"		
Prunus laurocerasus		Potential	Would recommend monitoring, can outcompete natives		Monitoring
Rhododendron (Rhododendron ponticum)		Potential	"Control is a key element in nature conservation" in certain areas, would recommend close monitoring	In Presidents Garden but not ponticum	Monitoring
Sciurus carolinensis	Grey Squirrel	Confirmed	Grey Squirrel, drives out native Red squirell, appears to have already happened on campus	Albert College Park and surrounding areas	Monitoring

On the St. Patricks Campus a biodiversity/environmental audit was undertaken, a draft summary of which is presented in the table below. This work was undertaken by Tom McCloughlin and the Ecology class.

Table 6: Survey of St. Patricks Campus

				NOTES / OBSERVATIONS
MAMMALS		MAMMALIA		
Grey squirrel				
Fox				
CRUSTACEANS	CRUSTACEA			
Woodlouse				
MOLLUSCS		MOLLUSCA		
Snail	Sprial	Hydrobiidae	seilide hidribiach	
Snail	Garden	Helix aspera	seilide garraí	
BIRDS		AVES		
Robin		Erithacus rubecula	spideog	
Wood pigeon		Columba palumbus	colm coille	
		Motacilla alba		
Pied Wagtail		yarrellii	glasóg shráide	
Sea Gull		Larus argentatus	faoileán scadán	
Blackbird (male)	Turdus merula	lon dubh		
Blackbird (female)	Turdus merula	céirseach		
Magpie		Pica pica	snag breac	
Thrush		Turdus philomelos	smólach	
PLANTS: TREES	PLANTAE:			
			ceremonial tree, late	_
			18th century, broken	
Cedar of Lebanon	Cedrus sp.	céadar	off top third	
				possibly hybrids,
Elm	Common	Ulmus sp.	leamhán	suckers prevalent
Larch	European	Larix decidua	learóg Eorpach	
Oak	Pedunculate	Quercus robur	dair choiteann	Y2K ceremonial

				tree
Oak	Sessile	Quercus petraea	dair neamhghasánach	
Oak	Turkey	Quercus cerris	dair -	
M/s locat				ceremonial tree planted by
Walnut		Fagus sylvatica		Archbishop
Beech	Copper	atropunicea	feá rua	
Beech	Common	Fagus sylvatica	feá	
		Fagus sylvatica		
Beech	Heterophyllous	heterophyllea Aesculus	feá -	very unusual
Horse chestnut	White flowered	hippocastanum Aesculus	crann cnó capaill	
Horse chestnut	Red flowered	hippocastanum	crann cnó capaill rua	removed
Lime / Linden	Common	Tilia sp.	teile	
Maple	Canadian	Acer mollis Acer	mailp	suckers prevalent
Sycamore		pseudoplatanus	seiceamar	self sown
Maple	Field	Acer campestre	mailp	
Holly	Wild	llex aquifolium	cuileann	
		Fraxinus excelsior	<b>6</b>	removed for F1
Ash	Weeping	pendula	fuinseaog shilte	prefab building saplings planted
Ash		Fraxinus excelsior	fuinseaog	2013
PLANTS: HERBS	PLANTAE:			=
Primrose		Primula vulgaris		
Daisy		Bellis perennis	nóinín	
Dandelion		Taraxacum sp.	caisearbhán	
Speedwell	Slender	Veronica filiformis	lus cré réileáin	
Mouso oor	Common	Cerastium	cluas luchóige choiteann	
Mouse-ear Clover	White	fontanum triviale Trifolium repens	seamair bhán	
Groundsel	Winte	Senecio vulgaris	grúnlas	
sticky backs /		Scheelo Vulguns	5.4.1.4.5	
goosegrass	Galium aparine	garbhlus		
Speedwell		Veronica sp.		
Speedwell		Veronica montana	lus -	
Angelica	Wild	Angelica sylvestris	gallfheabhrán	
chickweed		Stellaria media	fliodh	
Blue Bells	Native	Scilla non-scripta	coinnle corra	
Blue Bells	Spanish	Scilla hispanica	-	
Groundsel		Senecio vulgaris	grúnlas	
	Ranunculus	grán arcáin /		
Lesser Celandine	ficaria	aonscoth	comán coouroich	
Fumitory		Fumaria officinalis	camán searraigh coiteann	
Wild Garlic /			conceann	
Ramsons	Allium ursinum	creamh		
Dock		Rumex sp.	copóg	
Snowdrops		Galanthus nivalis	plúirín sneachta	
Stinging Nettle		Urtica dioica	neantóg	
Heliotrope	Winter	Petasites fragrans	plúr gréine	
		Ranunculus		under the F1
Goldilocks		auricomus	gruaig Mhuire	prefab building

	Anthriscus		
Cow Parsley	sylvestris	peirsil bhó	
Hogweed			
Bitter cress			
Groundsel	Senecio vulgaris		
			various garden
Daffodils	Pseudonarcissus		varieties

It is hoped that in 2017/2018 this will be extended to the All Hallows Campus.

# Biodiversity/Community Garden Spaces at DCU

Following consultation with several interested actors across our campuses it was agreed to clearly identify specific areas on the campuses that are dedicated to supporting biodiversity on campus. Below is a list of the arears across all three academic campuses.

## 1 Millbourne Garden, SPC

It was agreed to establish a 'school garden' to the side of the ERC Building. This garden will be a resource for several of the education programmes incl BEd, PMEP etc. In addition it will engage with the St. Patricks Primary School and with the Age Friendly University Initiative through education and participation activities.

Signage will be designed and installed to identify the area clearly. This area will be excluded from all herbicide and pesticide spraying with the exception of treatment for the Japanese Knotweed.

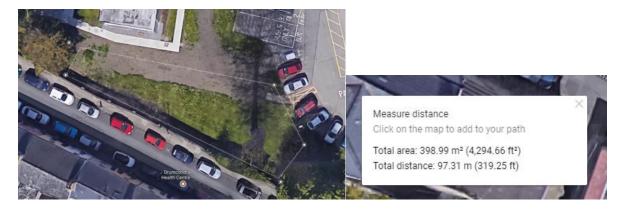


Figure 18: Proposed area of Millbourne Garden (Exact boundary needs to be agreed on site)

# 2. East Woodland, SPC

This area will continue to be used as a teaching resource for several courses incl BEd, PMEP etc. and will be used for species identification, to hand raise trees, sanctuary for biodiversity, reuse and upcycling of bird boxes etc.

Signage will be designed and installed to identify the area clearly. This area will be excluded from all herbicide and pesticide spraying.

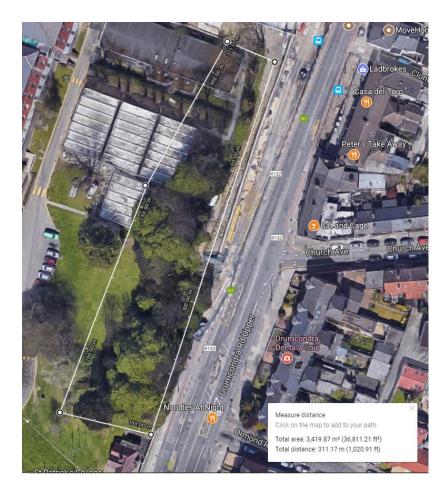


Figure 19: East Woodland (Exact boundary needs to be agreed on site) NOTE this is an old google map image - the prefabs etc have now been removed from this area.

# 3. Natural Grasslands, SPC

This area will be used as a teaching resource for several courses incl BEd, PMEP etc. and will be used for species identification, biodiversity of grasses and support DCU Campus wide pollinator plan to identify and sow specific native species that will support and encourage native biodiversity.

Signage will be designed and installed to identify the area clearly. This area will be excluded from all herbicide and pesticide spraying and will not be mowed.



Figure 20: Sloped grass area from steps to boundary wall with Drumcondra road, also incl small area to left of steps.

# 4. Community Garden Space, SPC

The current community garden boxes will continue to be used as a teaching resource for several courses incl BEd, PMEP etc. Signage will be designed and installed to identify the area clearly. This area will be excluded from all herbicide and pesticide spraying.

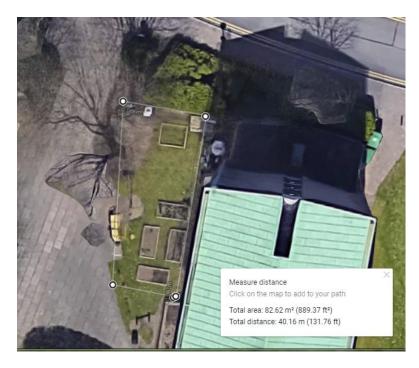


Figure 21: Community Garden Space on SPC.

# 5. All Hallows Community Garden

DCU has agreed to establish a community garden on the All Hallow Campus. This space can also be used as a teaching and learning resource for SPC and AHC campuses. The apple trees (19) donated from Blancherstown IT will be transplanted into this space.



Figure 22: Community Garden Space at AHC

# 6. DCU Glasnevin Community Garden

The DCU Glasnevin Community Garden is open to the whole community – including DCU Staff and students, local community individuals and groups (such as Ballymun Men's Shed Association) as well as companies who wish to work together to cultivate and grow wholesome organic food. In addition the garden has recently agreed with Grow Dome (social enterprise) to allow them erect an 11 meter grow dome (similar to that in Rialto) in the garden and it is working with a pre-start-up – Garden Gnomes on the practices and methodologies around urban gardening.

The 1.6 acre garden is a focus for engagement and promotion of healthy living, physical and mental. The garden endeavours to educate and train members in cultivation of organic fruit and veg to enable them to eat healthier while gaining some exercise and fresh air in a supportive learning environment. As a 'sustainability' focused garden it seek to develop and demonstrate new methodologies and technologies that will enable a more sustainable practices not only when it comes to food but all aspects of sustainability.



Figure 23: Community Garden at DCU Glasnevin.

# **Transport**

Dublin City University is now a multi campus university and the second largest commuting hub in the north Dublin region after the airport. In early 2017 DCU undertook a survey of all staff and students across all incorporating institutions to assess current transport choices vs a similar survey undertaken in 2016. This project was undertaken in conjunction with the National Transport Authority.

In the 2017 survey the response rate among students was dramatically lower in comparison to 2016. It was so low that the margin of error was 7% based on 99% confidence level (1,848 in 2016 v 357 in 2017 student responses). As a result, while the results are presented below it must be noted that the margin of error is very high. It is believed that the issuing of the survey after the ISSE survey in 2017 as opposed to before it in 2016 has created this anomaly.

#### **STAFF** Analysis

Table 7: DCU All Campuses Staff comparison 2017 V 2016

Answer Options	2017	2016	Change
Driving a car	46%	53%	7% 🕂

Bus, minibus or coach	22%	15%	7% 个
On foot	12%	11%	1% 🕇
Bicycle	11%	13%	2% 🦊
Train or DART	5%	3%	2% 个
Other	4%	5%	1%

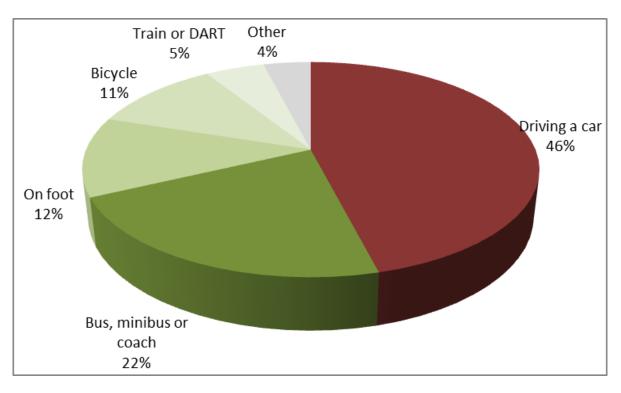
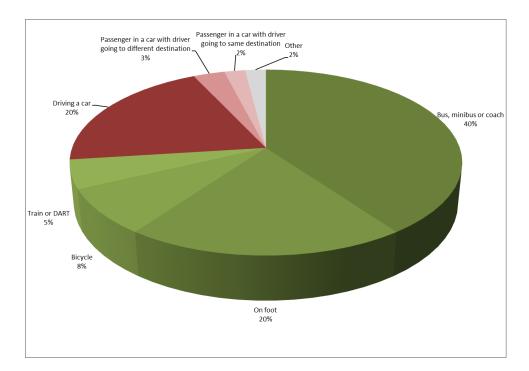


Figure 24: Sustainable vs non sustainable commuting mode

## **STUDENT** Analysis

Table 8: DCU All Campuses Student 2016 v 2017

Answer Options	2017	2016	Change
Driving a car	46%	53%	7% 🕂
Bus, minibus or coach	22%	15%	7% 个
On foot	12%	11%	1% 个
Bicycle	11%	13%	2%
Train or DART	5%	3%	2% 🕇
Other	4%	5%	1% 🖊



#### Figure 25: Sustainable vs non sustainable commuting mode

Summary

	Students		Sta	ff
	2016	2017	2016	2017
Sustainable Commute	76%	73%	42%	50%
Non Sustainable	22%	25%	53%	46%
Other	2%	2%	5%	4%

#### **Carbon Footprint**

DCU seeks to actively contribute to the creation of a post carbon world and in doing so it is seeking to become a carbon neutral campus. Following the **Greenhouse Gas Protocol Corporate Standard** DCU is currently carrying out a full carbon footprint of all of its activities.

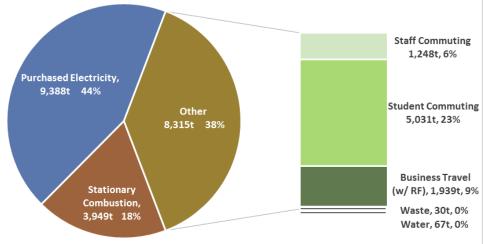


Figure 26: DCU Carbon Footprint for 2015

The total Carbon footprint analysis for 2016 is still ongoing, Scope 1 & 2 (energy) has been analysed and as can be seen below while we have gone from 13,337 tCO2e in 2015 to 14,680tCO2e in 2016 (figure 27) there has been a per capita reduction in emissions (figure 28).

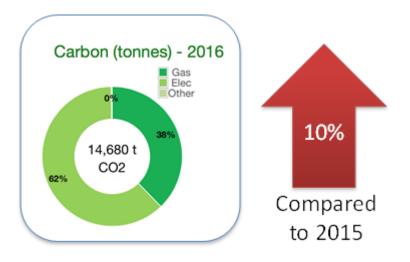
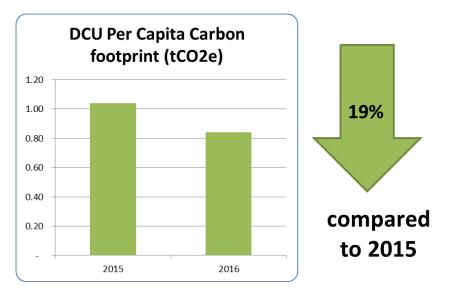


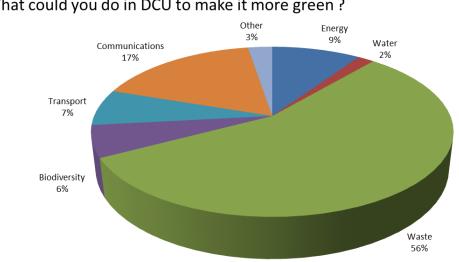
Figure 27: DCU Scope 1 & 2 Carbon Footprint for 2016





# 4. Action Plan for 2016/2017

The DCU Green Committee endeavours to keep our Action Plans up to date. They are available on a share drive for individuals to update. This sometimes does happen! However most updates are done by the Sustainability Manager with information supplied by different groups etc. New actions are added to the end of the list to ensure that where projects have not been finished that they are not forgotten and have to be reinvented. It is evident from the Action plans which measures are new and which are ongoing. One of the ongoing challenges is the capturing of ideas and suggestions from enthusiastic new members and the management of their expectations on who should deliver the absolutely fantastic solution that they propose. An attempt to management this in 2017/2018 was the circulation of a feedback form to all staff and students - part of this form was a question on what the individual themselves could do to make the DCU campus more sustainable - there were over 100 responses. The figure below breaks down the theme of these responses across the An Taisce Green Campus themes.







It is really interesting to note the prevalence of waste focused responses. While, of course, waste is a significant issue its impact on the carbon footprint of the University is significantly (many orders of magnitude) less than for instance energy or transport. It could be that people 'see' waste more frequently in their daily lives and feel that they can make an impact on it.

In addition to this open ended question specific projects – as identify by previous green committees - were proposed to see which would be most likely to gain support. The figure below shows a breakdown of support for these projects with the removal of non-recyclable coffee cups gaining the highest level of support at 83% of respondents supporting it ! Other highly supported projects included removal of once used plastics and drinking fountains on campuses.

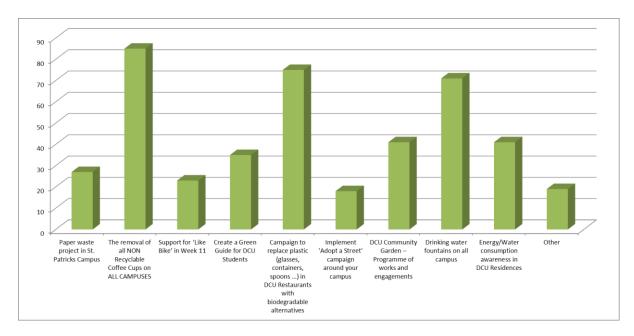


Figure 30: Support for specific projects at DCU

Below is a summary of proposed actions planned for 2017/2018 – these have been drawn from suggestion from the all staff/student engagement

## Energy

- Work toward an ISO50001 Standard
- Develop and communicate a energy/carbon management plan
- Raise awareness of energy consumption by Students, Staff and Visitors
- Energy consumption awareness & behavioural change programme in DCU Residences with SAVES Prog
- Seek renewable technology (Solar/wind) for Student Hub

#### Water

- Water consumption awareness & behavioural change programme in DCU Residences with SAVES Prog
- Identify leaks and fix
- Communicate water consumption data to all staff and students
- Treat as a valuable resource
- Paper waste project in St. Patricks Campus
- Continue 'Adopt a Street' campaign around your campus
- Drinking water fountains on all campus

#### Waste

- Campaign for the removal of all NON Recyclable Cups on ALL CAMPUSES
- Communicate waste information to all staff and studnets
- Campaign to replace plastic (glasses, containers, spoons ...) in DCU Restaurants with biodegradable alternatives

### **Biodiversity**

- DCU Community Garden Programme of works and engagements
- Pollinator plan for DCU
- Increase awareness of the importance of biodiversity
- Update biodiversity database
- Increase biodiversity on campus through tree planting events

#### Transport

- Mobility management plan support active commuting
- Continue Smarter Travel Campus' Walking and Cycling Challenges
- Support for 'Like Bike' in Week 11

#### Communications

- Info wall on all campus providing current consumption data on key metrics including initiatives to reduce and scope to accept suggestions
- Create a Green Guide for DCU Students

A full list of the completed and ongoing actions plans for the DCU Green Committee are in Appendix 2. These are in the appendix as they make more sense when seen as part of the total document rather than a snippet.

# 5. Monitoring and Evaluation

In this section we will discuss the monitoring and evaluation of the additional assessment we have undertaken in 2016/2017.

# Energy

As presented in Section 3 DCU continues to work toward its agreed target of 33% energy reduction by 2020 on 2010 figures. As can be seen for the data report in the environmental review section above there has been a 32% increase in actual energy consumption from 2015 to 2016 – this is cumulative across all campuses and is predominately attributed to the expansion of the campus. DCU's Energy Management team have undertaken a raft of project to reduce the rate of energy consumption on campus and increase efficiencies. These incl

- Completed energy audit of Residences
- New condensing gas boilers
- Shared learnings across campuses
- Reduced pool boiler flow temperature setpoint at night
- Appointment of Energy Champions in the BDI, Sciences, Residences and NICB buildings; regular meetings between Estates and Energy Champions
- Completion of EPC assessment of carpark lighting
- Completed gap analysis for ISO50001 certification
- Expansion of the BMS Implement Carpark lighting EPC
- Implement humidity control of pool ventilation system
- Complete DCU Strategic Energy Plan

In addition to this DCU Estates is working with the DCU Green Committee and together working toward ISO50001 Certification in 2017. The challenge of achieving this requires cross campus engagement and together we are working on several project including the EU funded SAVES project.

- Strategic Plan implementation
- Whole campus engagement
- Upgrade boilers and LED lighting
- Carbon neutral strategy development
- GCSO Project Hot water in public sanitary facilities





# Saves Project

This project will work very closely with the DCU Students Union, Sustainability Office and Green Committee to capitalise on the potential impact of this innovative behavioural change programme.

University No. of Dormitories No. of Students in dorm						
Dublin City University	15	1,400				
NUI Galway	8	1,100				
NUI Maynooth	23	986				
University College Cork	5	1000				

#### Irish Targets

### **Objectives of overall project:**

- 1. Reach 38.000 students living in dormitories each academic year (114,000 students over 42 months) with the Student Switch Off energy-saving campaign that inspires them to adopt sustainable energy behaviours at a key stage of their lives.
- 2. Save quantifiable amounts energy (9GWh in final energy consumption) in student dormitories through the adoption of sustainable energy behaviours by students
- Reach over 100,000 students when they are looking at moving into the private-rented sector to encourage them to make housing choices that minimise their exposure to fuel poverty – e.g. by demanding to see the Energy Performance Certificate (EPC) of the property, not selecting poor-rated properties, and creating more demand for efficient rental properties;
- 4. Reach over 100,000 students when they move into, and live in, the private-rented sector to improve understanding of their energy bills, to provide general advice on the efficient management of equipment and heating controls, to encourage the uptake of smart meters and to raise awareness of how to use in-home displays to reduce household energy consumption.

#### **Partner countries:**

United Kingdom, Greece, Cyprus, Ireland, Lithuania, Romania, Bulgaria

# Student Switch Off dormitories monitoring and evaluation

Pre -intervention attitude and behavior questionnaire survey	Sept 2017, Sept 2018, Sept 2019	
Follow-up questionnaire survey	May 2018, May 2019, May 2020	
Focus groups with students as they leave dormitories	May 2017, May 2018	





GLOBAL CONSORTIUM FOR SUSTAINABILITY OUTCOMES

DCU, along with nine other partner Universities, are participating in the Global Consortium for Sustainability Outcomes (GCSO) project on trialling the removal of hot water from public sanitary facilities. In DCU we plan to remove hot water from the majority of sanitary facilities in one designated building for the period of one year and closely monitor the impact and perspectives of staff, students and other building users. Hot water is not required for hygiene purposed and due to legionnaire's disease all public hot water system must hold hot water at circa 60 degC to prevent spread of the disease. It is proposed that there are significant energy saving and associated greenhouse gas emissions savings for the building over the period. We hope that our findings of this innovative project will be of relevance to planning legislation with the potential to be scaled up. We are working closely with Dublin City Council and the Health and Safety Authority in this project.

### SEAI Better Energy Community Grant

In early 2017 DCU was awarded a Better Energy Community grant. This grant will go towards new high efficiency boilers on All Hallows' Campus and the retrofitting of LED lights in the multi-storey car park on Glasnevin Campus. In addition just over €30k will be donated by SEAI on behalf of DCU towards Fuel Poor Housing in the DCU Community.

### Renewable Energy in DCU Community Garden

As the threat of global warming becomes more imminent, so does the drive for solutions. With carbon emission levels continuing to rise, a diversification from carbon combustion methods for energy generation is needed if peak emissions are to be reached and begin to reduce the damage caused to the planetary boundaries. This project aims to examine a number of renewable energy systems for implementation in the DCU Community garden. It is hoped that through converting to sustainable forms of energy production within the Community Garden, the proposed renewable systems can supply clean sustainable energy to support the Community Garden Sheds, but more importantly, reduce the University's carbon footprint. This project also aims to show that by installing renewable systems within a community setting, a number of indirect benefits are possible. This project will show that through community engagement, a wider population may be influenced into making necessary changes to improve their sustainable practices. This demonstration may be seen as a platform by which other stakeholders, visitors, students and staff may follow suit to pursue more sustainable and carbon neutral practices by which the DCU and surrounding community will benefit.

### Roadmap to Carbon Neutrality

DCU recognised the need to move toward a low carbon environment, to support this effort a roadmap is being developed to identify the challenges and opportunity that arise on the road to a carbon neutral campus. Initial steps included the carbon footprinting of the DCU Glasnevin Campus and also a fourth year project on creating Carbon Neutral Interfaith facilities on the DCU Campuses (Glasnevin, St. Patrick's and All Hallows).

A literature review was completed looking at the current carbon foot printing methodologies and potential mitigation or adaptations to create carbon neutral facilities. The final report is not completed as yet.

2015	Elec (MWh)	Gas (MWh)	Total energy (MWh)	Carbon (tonne)	Students 14/15	Carbon tonne per student
DCU Glas	17,781	19,262	37,043	13,337	11,820	1.13
DCU SP	5,600	2,000	7,600	2,204	2,711	0.81
2016	Elec (MWh)	Gas (MWh)	Total energy (MWh)	Carbon (tonne)	Students 14/15	Carbon tonne per student
DCU All Campuses	22,014	26,907	48,921	14,680	16,761	0.88

Table 9: Table of energy consumption in 2016 for DCU Academic Campuses

As can be seen from the table above the estimated the overall carbon footprint per student has reduced from 2015 to 2016, where DCU Glasnevin students have decreased and the SPC/AHC students increased. It is expected that this is primarily due to the higher energy intensity use on the DCU Glasnevin campus due to research laboratories/residences etc.



Starting back in 2015 the then co-chair of the DCU Green Committee, Denah Harris, established a campaign to have DCU divest from fossil fuel investments. The committee established a petition page (<u>https://campaigns.gofossilfree.org/petitions/divest-dcu?source=facebook-share-button&time=1455825568</u>) and just before the end of semester a letter was send to Prof. Brian MacCraith, President of DCU. In late 2016 Dublin City University Senior Management agreed to divest from Fossil Fuels and have direct their fund managers to implement this request. While we do not have an official statement from our Education Trust at the point of writing this report we understand that we will have this very shortly.

### Water

Water continues to be a concern at DCU. As can be seen from the Lowflow report there is a high probability that there are several leaks both on the DCU Glasnevin, St. Patricks and All Hallows campuses. The DCU Estates office are undertaking several measures to enable the identification and rectification of leaks on both campuses which will be reflected in both the consumption and financial reports in 2017.

### Hot water project

As mentioned in the Energy section above DCU is participating in an international Hot Water project. This project is being driven by the DCU Sustainability Office in conjunction with interns and members of the DCU Green Committee. It is expected that not only will there be energy savings but that due to the need to flush the systems to prevent the spread of legionnaire's disease that by removing the hot water there will also be water savings. Please note that there will be single point hot water sources in all accessible bathroom for those who require it.

### Potable water at DCU

The DCU Green Committee continues to promote the use of reusable water bottles and in conjunction with the DCU students union reusable water bottles are available for €5. In additional in 2016 new potable water found were installed in several locations on the DCU St. Patricks and All Hallows campuses.

### Waste

The total waste from DCU Figure 19 below is a reflection of the DCU waste streams per student. The data up until 2015 is for DCU Glasnevin campus and its associated student body. The 2016 data is a combination of all DCU academic campuses.

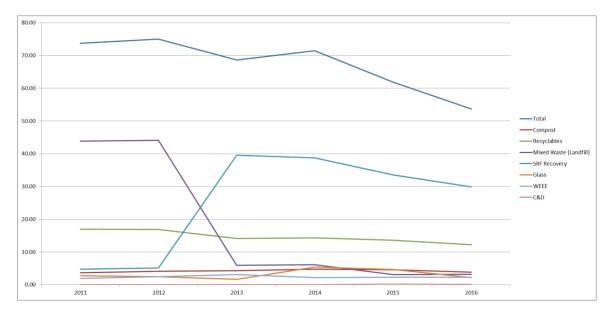


Figure 31: Waste (in Kg) per student at all DCU Academic Campuses

The figure below breakdowns the total waste streams per student per academic campus to all for a focused analysis. As can be seen in this 2016 data it is evident that there was no glass recycling on the SPC or AHC campuses – this is now being addressed. Also it is interesting to note that there are much higher levels of composting per student on the AHC – this may be because it is a less densely populated campus that either SPC or GLA. The significant difference between the campuses on SRF recovered waste may be due to different work practices across campus and it is expected that this will adjust as we move forward.

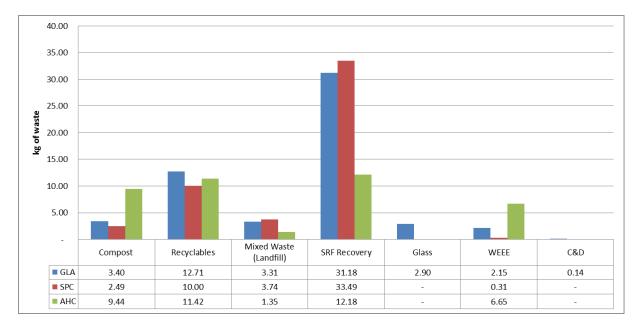


Figure 32: Breakdown of waste per student per academic campus in 2016

### **Recyclable Coffee Cups**

DCU is working with An Taisce and our other partner Green Campuses to target the use of nonrecyclable coffee cups. This is a project that DCU Green Committee members have been working on for many year. Over the past year Mariane Galpo has undertaken to do a business case analysis on non-recyclable coffee cups. (See Appendix 3 for full report)

The table below indicated how many coffee cups DCU consumes across all our campuses.



Taking the Environmental Footprint Calculator Considerations from Keep Cup [www.keepcup.com/userfiles/files/KeepCup%20Calculator%20Considerations.pdf]

Table 10: The impact and cost of non-recyclable coffee cups

Non-Recyclable Cup Waste		
Average disposable cup	0.011	kg
Plastic lid	0.003	kg
Paper sleeve	0.005	kg
Total weight	0.019	kg
Total Annual cups at DCU	701,200	
DCU annual non-recyclable cups waste	13,323	kg
	13.3228	tonnes
Total DCU waste 2016	912.008	
% of DCU total waste	1.5%	
Average price of cups/lids/sleeves	0.12	€
Total Cost	84,144	€

To try and combat this wanton waste DCU will again in Sept 2017 be making available to all staff and students at an introductory rate of €5.50 from the DCU Students Union.



Figure 33: The new DCU reusable coffee cups, include the new logo and colour scheme

WEEE Waste Initiatives to increase take back of electrical and electronic waste (WEEE) for recovery DCU has been working for some time to increase the level of WEEE recycling, From observations it was noted that there was a lot of electrical and electronic equipment being thrown into skips which at the time would have ended up in landfill. The DCU Waste Management tender was tailored to elicit some feedback and hopefully generate some ideas about to how to go about implementing Electrical and electronic recycling on campus. Working with partner companies DCU has increased its WEEE levels year on year. In 2016 DCU applied under the PakMan Awards and was shortlisted. (copy of application in Appendix 4.)

YEAR	2011	2012	2013	2014	2015	2016
Tonnes	16.4	21.9	28.5	22.2	26.8	38.7

The DCU Green Committee has run several initiatives to support the WEEE target including setting up a competition between staff, students and local community around the DCU Campus to see how could recycle the most.



Figure 34: WEEE Recycling Initiative in conjunction with DCU Green Committee

All is not rosie however and there is lots more to be done. On several occasions it has been reported by Green Committee members that during refurbishments furniture, lockers, seat, partitions etc are being put in a skip typically going to landfill (Figure 36 below). We have 'rescued' some of these with donations going to the Rediscovery Centre in Ballymun and also to the DCU Community Garden. The DCU Green Committee will work with the DCU waste team to identify a process to try and avoid such waste.



Figure 35: Skipping of refurbishment waste in 2016

### PakMan Awards

In 2016 DCU submitted a application to the PakMan awards under the WEEE Category and were short listed – unfortunately we didn't win – maybe next time !! (See appendices for full details)

### Paper Waste at DCU

Following on from a project in 2015/2016 targeting paper waste at DCU, specific efforts were undertaken in SPC to address the excessive paper waste on this campus. It was discovered that, lead by Andrea Cleary significant quantities of paper waste are re/ up cycled and used as a resource material for Art Classes as part of the BEd Programme.



### Figure 36: Art from re/up cycled paper at SPC

In addition in 2017/2018 these classes in SPC will seek to design and construct a piece of art for a community garden in Ballymun.

### **Litter surveys**

As per recommendations from our assessment in July 2014 DCU Green Committee continues to undertaken litter surveys across campus. While the overall the level of litter is low there are consistent black spots. Major issues that need to be addresses is the continued perception that cigarette butts are not litter. DCU Green Committee has done some work on looking into potential alternatives include portable ash trays – this needs further work considering the health impact of smoking and DCU initiative under the Healthy Campus initiative and DCU is looking as becoming a smoke free campus.

In addition the DCU green committee hopes to work with the DCU language schools to encourage summer language student not to litter. Significant effort is needed here ! Contact has been made with the Language school and inclusion in the 'Adopt a Street' initiative is being considered.

### Pack it up Pass it on - Version 3

Following several year of 'pack it up and pass it on' in 2015/2016/2017, together with the DCU SU we undertook another form of recycling/upcycling of surplus stuff from student apartments when they were leaving DCU. For three week over the end of semester and the exams period we provided a space for people to leave their unwanted 'stuff' which was then taken away by Rags 2 Riches Recycling. Following these collections Rags 2 Riches Recycling then made a cash donation to DCU SU who combined it would their other fund raising and donated it to the charities.



### **Beach Clean**

In February 2017 a group DCU students from the surf and sail club undertook a beach and cliff clean up at Howth. The beach bums collected several bags of rubbish and intend to continue their efforts in 2017/2018.



Figure 37: DCU Surf and Sail Society after a beach clean in Feb 2017

### **Biodiversity**

The Green Committee at DCU has from its inception been very engaged in biodiversity both on and off campus – below is a list of some of the projects and initiatives that DCU and its Green Committee have recently been involved in.

### **Horticulture Histories**

Horticulture Histories (HH) is one of several project being undertaken under the RCE umbrella, it seeks to engage with primary schools to create and new and innovative account of flora & fauna in the North Dublin region building on archival material captured by primary schools in the 1930's and digitised by Dúchas.ie in the National Folklore Collection of Ireland. During the summer of 2016 Ann-Christin Arras from Heidelberg University in Germany who was undertaking and internship with Sustainability DCU worked on the development of this project (see Appendix 5 attached). While the resources were not available to fully exploit this project initial steps were taken with the St. Patrick National School on the SP Campus supporting their campaign for the Biodiversity Flag. DCU undertook workshop with 6 classes from  $1^{st} - 4^{th}$  on Biodiversity (worksheet attached)



Figure 38: Celebration for the awarding of the Biodiversity Flag to St Patricks National School Drumcondra. Sam Fahy was invited speaker at the Flag raising.

### DCU Biodiversity and Community Gardens Spaces

A major recent achievement has been the identification and cross campus agreement on designated biodiversity and community garden spaces across all DCU Academic campuses (see Environmental Review Section pg 24).

In addition to this DCU continues to run a vibrant and active community garden on the Glasnevin Campus. The Community Garden at the Dublin City University Glasnevin Campus aims to

- Be a welcoming space for the whole community where organic fruit and vegetables and sown, harvested and consumed by members of the community garden,
- Provide an opportunity for intergenerational and cross community education and training through active working/volunteering in the garden and tutor lead on site training courses,
- provide an space on a university campus for joint and shared learning across all garden members from academia, under and postgraduate students, local community members, enterprises, community employments schemes, Men's Shed Associations etc
- Be a living lab garden for the demonstration of new and innovation solutions to local and global issues, social, cultural, economic and environmental.

With the support of the Garden Gnomes DCU community garden provides a weekly organic fruit and veg stall for staff, student and general public.



Figure 39: Martin, Jason and Paddy - our very own Garden Gnomes!

### **Community Supported Agriculture**

Activities in the garden include the cultivation and planting of fruit and veg, training and development of Community Employment placements. In additional, in 2017 DCU has signed a

formal Memorandum of Understanding with the Eco Village in Cloughjordan. As part of this new partnership we aim to further develop the community support agriculture aspect of the community garden and potentially expand to all campuses.

### **Pollinator Plan**

Saorla Kavanagh, together with member of the DCU Green committee and supported by the DCU President are developing and implementation a pollinator plan for all DCU campuses. Globally, 87 of the leading food crops (accounting for 35% of the world food production volume) depend on animal pollination. Pollinators and the services they provide are threatened by a range of factors including: the loss of floral resources and nesting habitats, pesticide use and climate change. Six bumblebee and 24 solitary species are threatened with extinction from Ireland.

DCU is committed to changing certain management practices in order to protect pollinators on campus. This will be achieved by improving pollinator habitats across all Campus' by increasing the amount of floral resources and nesting habitats and reducing the use of pesticides (herbicides, insecticides and fungicides). The actions of DCU's Campus Pollinator Plan will be based on the AIPP "Local Communities: actions to help pollinators". Specifically 9 actions will be taken in the coming year.

- 1. Identify and protect existing areas that are good for pollinators.
- 2. Planting on campus will be focussed towards flowers with accessible and high quantity and quality rewards.
- 3. Reducing or stopping the unnecessary cutting hedges during flowing periods.
- 4. Reducing or stopping the unnecessary use of pesticides.
- 5. Reducing mowing on some areas.
- 6. Raise awareness of the importance of pollinators and how to protect them via teaching and outreach.
- 7. Provide an undisturbed area for bumble nesting.
- 8. Install and maintain bee hotels.
- 9. Supporting beekeeping on campus.

DCU is committed to pollinator friendly alternatives to current land management practices and believe that these actions are urgently needed for the sake of the sustainability of Ireland's pollinators.

### Management Support

In early 2017 Prof. Brian MacCraith was asked to give the introductory remarks at the Biodiversity Forum - <u>http://biodiversityforum.eu/agenda.php</u>. Prof. MacCraith gave a introduction to the efforts being undertaken by DCU to support biodiversity. Copy of the talk in Appendices.

### St. Patricks Ivy Project

In 2016/2017 in conjunction with the Drumcondra Tidy Towns, DCU agreed to enhance the Drumcondra Road facing side of the St. Patricks Campus. A budget of €2000 was allocation by DCU to support additional flower baskets as well as support for a student project to propagate native Irish ivy from the wall to the south of the main entrance and to transplant this to the newly moved wall to the north of the entrance. This project is support by Dr. Tom McLoughlin and his students.

### Transport

A significant focus has been placed on sustainable transport theme by the DCU Green Committee over the past number of years. DCU is an active partner in the NTA Smarter Travel Campus Programme. The DCU Mobility Management Plan aims to have 90% of commuters to DCU avail of a sustainable form of transport. Major efforts toward this target were :

- Cycling on Campus initiatives
- Public Transport connectivity

### Cycling on Campus

### Cycle Parking

DCU Campus	No. of cycle parking slots 2016/ 2017	Increase from 2015/2016
Glasnevin Campus	744	+300
St. Patricks Campus	250	+150
All Hallows Campus	120	+100

In addition to cycle parking additional computer facilities have also been installed at the St. Patricks Campus and are under development at the All Hallows Campus.



Figure 40: New Shower facilities in Block F (4 independent units)



Figure 41: Over 150 covered cycle parking at Block F, SPC.

### **Bicycle Maintenance Stands**

Bicycle maintenance stands insalled on all three academic campuses



Figure 42: Cycle Maintenance Stands on All Hallows Campus

### **Bicycle Clinics**

Bicycle clinics on a weekly basis on the Glasnevin campus and monthly on the St Patricks Campus where staff and students can get their bikes serviced for free. Initiative supported by the Sustainability Office/OCOO and the DCU Students Union. There are approx 18-20 bikes services on a first come first served basis each week on the Glasnevin Campus and approx the same at the monthly clinics at SPC.

### LikeBike Week

A promotional week of activiteis to promote cycling as a safe and healthy option. This week ran from 28/11/2016 – 1/12/2016 and inclded a promotion fair on each of the DCU acadmeic campuses, several competitions and activities including smoothie making time trials, cycle safety etc. Over 500 people engaged in the activites throughout the week. In addition a lecuter from Nursing re-wrote the words for the BeeGees song Staying alive to staying alive at 1.5 (ie safe passing distance for a bike) and this was recorded by the DCU Glee club and was played on DCU radio during the week.



Mon 28/11 - Thur 1/12 PROGRAMME

	Monday (28/11)	Tuesday (29/11)	Wednesday (30/11)	Thursday (1/12)
	Like Bike Stand – The Street – Info on cycling, safety gear, bike to work - Lunch Time	Light your bike campaign - (1530 - 1630) - DCUGCA	Like Bike Stand – The Street – Info on cycling, safety gear, bike to work - Lunch Time	
	Cycle Tours : DCU Intercampus bikes : DCUGLA to DCU SPC to DCU AHC to DCU GC 12:30 - 14:00 - if interested please sign up here	Cycle Fitness Class in DCUGLASports Complex (0745-0845) – Open to all staff and students Register here if you are not a member of the Sports Complex https://poo.gl/forms/10hewPS0s7oyGAkm1	How to lock your bike demonstration – DCUGLA	Cycle Fitness Class in DCUGLA Sports Complex (0745-0845) - Open to all staff and students. Register here if you are not a member of the Sports Complex: https://goo.gl/forms/X60G3PIONEVL902453
DCU Glasnevin Campus (DCUGLA)	Introductory Cycle Training – 12:00 – 1400 DCU Sports Grounds <u>Register berg</u>	Smoothie Bikes 1 the Pedal Powered Blenders Competition (1200-1430)- SIGN LIP HEEF DOUGLA	Pedal Bus Tours : DCUGLA to DCUSPC to DCUAHE (10.00 – 15.00) - Volunteers needed to cycle between campuses - <u>SIGN</u> UP here	
		Free Bike Clinic 13:30 – 1600 DCUGLA - Albert College Foyer outside AG00	Fastest team on campus? (2 min competition) – Two person teams (12.00 – 13.30) The Street, DCUGLA Who is the fastest unit/faculty/ department/clab/committee on campus. Choose your two person team and <u>BEGISTES here</u>	
	Cycle Tours : DCU Intercampus bikes : DCUGLA to DCU SPC to DCU AHC to DCU GC 12:30 - 14:00 - If interested please <u>sum up here</u>	Like Bike Stand – Main Reception – Info on cycling, safety gear, bike to work - Lunch Time	Free Bite Clinic 11:00 - 15:00, 9F207, DCUSPC	
DCU St. Patrick's Campus (DCUSPC)		RSA Simulator/Shuttle Bus – All Day - DCUSPC	Pedal Bus Tours : DCUGLA to DCUSSC to DCUAHC (10.00 – 15.00) - Volunteers needed to cycle between campouse - <u>SIGN</u> UP here	
		How to lock your bike demonstration – (1300 – 1330) – DCUSPC	Light your bike campaign - (1530 - 1630) - DCUSPC	
			Fastest team on campus? (2 min competition) – Two person teams (12:00 – 13:30) The Street, DCUGLA Who is the fastest unit/faculty/ department/club/committee on campus. Choose your two person team and <u>BECISTER hare</u>	
DCU All Hallows	Cycle Tours : DCU Intercampus bikes : DCUGLA to DCU SPC to DCU AHC to DCU GC 12:30 – 14:00 - If interested please <u>sign un bore</u>	Light your bike campaign – (1590 – 1690) - DCUAHC	Pedal Bus Tours : DCUGLA to DCUSPC to DCUAHC (10.00 – 15.00) - Volunteers needed to cycle between campuses - <u>SIGN</u> <u>UP here</u>	Like Bike Stand – Purcell House Cafe – Info on cycling, safety gear, bike to work - Lunch Time
Campus (DCU AHC)			Fastest team on campus? (2 min competition) – Two person teams (12.00 – 13.30) The Street, DCUGLA Who is the fastest unit/faculty/ department/clob/committee on campus. Choose your two person team and <u>REGISTER here</u>	How to lock your bike demonstration (1300 1330) - OCUAHC

Figure 43: Programme for Like Bike Week



Figure 44: Collage of Like Bike Week activities

### **Cycle for Coffee**

On Friday 4<sup>th</sup> November from 12-2pm the Sports Development Service organised a Cycle and Coffee for SS&D staff to Clontarf. The idea was to promote physical activity and to catch up with colleagues after such a busy first 7 weeks of semester. The DCU Intercampus bikes and helmets etc were provided. Ten members of the Student Support and Development participated. This was organised by Ross Munnelly, Senior Sports and Skills Development Officer.

Figure 45: Promotion of Cycling initiative with SS&D

# SS&D Cycling and Coffee

From office chair to saddle!

- Sign up and enjoy:
- ExerciseCoffee/TeaFun with colleagues
- Relaxation



### DCU becomes Chapter of the Cycling Without Age movement

DCU signs up as the first Irish University to establish a Chapter of the Cycling Without Age movement. This is a liaison between School of Nursing and the Age Friendly University with the intension of establishing and providing an engagement with local nursing homes in the north Dublin region. (<a href="http://cyclingwithoutage.org/">http://cyclingwithoutage.org/</a>)

### Cycling on Campus

Prior to 2016 cycling was not permitted within the pedestrian areas at DCU. Following much consultation with several unit at DCU including Health and Safety, Estates, Student Union, Communication and Marketing and Sustainability it was agreed to change the signs on campus to permit cycling.



### DCU Intercampus Bike Scheme/Bleeper Bikes

In 2015/2016 DCU introducted an intercampus bike scheme for Staff for intercampus commuting. In excess of 150 staff sign up and the scheme is running reasonable well. There is a considerable amount of adminsitration and not all user remember to drop back the bikes where they should be. In late 2016 a new bike scheme company (Bleeperbikes) approached DCU to undertake a pilot for a stationless bike scheme. Following much discussion the first bikes appeared on campus in August 2017. Full report to follow !



Figure 47: New Bleeperbikes at DCU

### Public Transport Smarter Travel Campus

### Enhancing Connectivity to DCU Campuses

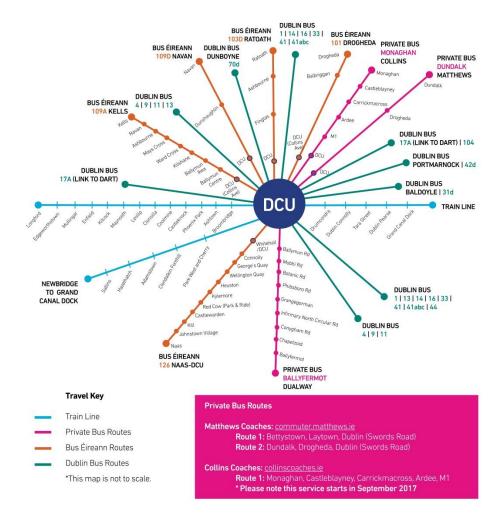
As a key driver of undergraduate student application numbers the connectivity of DCU campuses to the public transport network is key. In conjunction with the National Transport Authority and their Smarter Travel Campus programmes, DCU have made significant advances in enhancing the public transport connectivity to all campuses. The table below give a summary of the increased public transport connectivity to the DCU Campuses.

Table 11: Busses serving the DCU Campuses.

Jan 2016	Jan 2017
Dublin Bus Routes: 14	Dublin Bus Routes: 17
Bus Eireann : 2	Bus Eireann : 5
Private Busses : 1	Private Busses : 3

### The new services include

Provider	NEW Routes in 2016
Dublin Bus	31D (Baldoyle – DCU)
	42D (Portmarnock – DCU)
	70D (Dunboyne – DCU)
Bus Eireann	Navan – DCU
	Kells – DCU
	Rathoath - DCU
Private Busses	Dundalk – DCU Direct (Matthews)
	Monaghan – DCU (Collins)
	Ballyfermot – DCU – Airport (Dualway)
	Newbridge/Naas – DCU (JJ Kavanaghs) Discontinued
	Swords – Airport – DCU (JJ Kavanaghs) Discontinued



### Figure 48: DCU Public Transport Connectivity Jan 2017

### **Enhanced Promotion**

To increase the number of people using public transport to commute to the DCU Campus the following actions were taken:

- Public Transport connections were included in all presentation at School recruitment drives (Ita McGuigan and Jonny Cooper)
  - The DCU website information was regularly updates and engaging visuals were developed (Figures 1 above). (Sam Fahy, Katy Halpin and Kerry-Anne Ridley)
  - Information of public transport included in DCU Frist year packs
  - Information on public transport included in Staff and Student orientation (Sam Fahy)
  - Direct public transport links between campuses were highlighted to Incorporation teams (Incorporation Office)
  - LEAP cards were made available to University Department where commuting between campuses was required on a daily basis. (Incorporation Office/Departments)
  - Regular email notification of public transport connections
  - Promotion of RTPI across campuses on screens.
  - Media Production Society News clip on new busses at DCU (https://www.facebook.com/DCUtvNews/videos/1815500952007279)

### Modal Shift.

In a survey undertaken in Jan 2017 it was evident that there was an increase in the number of staff using public transport to get to campus (increase of 5%). However due to student number responses it was not possible to make any analysis of the student modal choices.

In 2017 DCU was awarded the National Transport Authority award for Smarter Travel Public Transport Campus of the year in recognition of the efforts made.



Figure 49: DCU Smarter Travel Public Transport Campus award

# 6. Link to Learning on Campus

Over the past year the linkages to education programmes on campus have grown. We are not yet at the point where sustainability is embedded into all modules so that all graduates of DCU understand the meaning of sustainability and the interrelationship between the social, cultural economic and environmental factors that need to be balanced to ensure a sustainable future for all BUT we are making progress! In particular the new DCU Strategic Plan for 2017-2022 will seek to among other thinks seek to integrate Sustainability Principles, Literacy and Awareness into the student curriculum. This will involve working closely with Faculties and the Education Committee to establish the optimal approaches to achieving this objective. There will be a particular emphasis on awareness of the UN Sustainable Development Goals (SDGs).

**Project title** Student Project Year Programme Reducing the Quantity Sean Daly Final year thesis 2014/15 **Environmental Science** and increasing the and Health recycling of waste in DCU campus Residences The Viability of DCU's Alan Rigney 2014/15 **Environmental Science** Final year thesis community garden and Health

Other linkages include over the past year several projects,

Water usage and reduction in DCU's Sports	Clionadh Williams	Final year thesis	2014/15	Environmental Science and Health
Complex Feasibility Study of Rainwater Harvesting on the DCU Campus	Mohammed Alotaibi	Master's Thesis	2015	MM544 Sustainable Energy
Biodiversity at DCU	Joe Cornish	Final year thesis	2014/15	Horticulture
The use of potable water in DCU	Ellen Kelly	Final year thesis	2015/16	Environmental Science and Health
Paper consumption at DCU	Bernadette Leng lan Lo	Final year thesis	2015/16	Environmental Science and Health
Soil analysis in the DCU Community Garden	James Platt	Final year thesis	2015/16	Environmental Science and Health
Food Waste	Margaret Cronin	Master's Thesis	2015/16	Open Education
DCU Carbon Footprint	Sean Walpole	Intern	2015/16	Environmental Science and Health
Transport and Behavioral Change	Stephen Dowling	Intern	2015/16	Psychology
INSULATION PRODUCTS, FOCUSING ON GLOBAL WARMING	Natalie Farrell	Master's Thesis	2015/16	Open Education
Carbon Neutral Interfaiths	Brendan Deehan	Final year lit review	2016/17	Environmental Science and Health
Coffee Cups and Beh Change	Cody Byrne	Intern	2015/16	Psychology
Horticulture Histories	Ann Christin Aaras	Intern	2015/2016	Sustainability DCU
Renewable energy in Community Garden	Tadhg Meaney	Final year thesis	2016/17	Environmental Science and Health
Hot Water in public Sanitary Facilities	Oisin Foley	Intern	2016/17	Psychology
Flying Less	Conal Ó Dubihir	Intern	2017	Sustainability DCU
Decoupling environmental impacts from economic activity, what it means and how it relates to the concrete sector in Ireland.	Andrew McGrane	Master's Thesis	2016/17	Open Education - MASTER OF SCIENCE IN MANAGEMENT FOR SUSTAINABLE DEVELOPMENT
A study on the adoption of clean technologies within the Irish seafood processing industry	Tomas Cooper	Master's Thesis	2016/17	Open Education - MASTER OF SCIENCE IN MANAGEMENT FOR SUSTAINABLE DEVELOPMENT
University Transport management	Ann Whyte	Master's Thesis	2017/18	Open Education - MSc IN MANAGEMENT FOR SUSTAINABLE DEVELOPMENT
Food Waste and our legal requirements	Anorai Rooney	Final year thesis	2017/18	Environmental Science and Health
Impact and potential alternatives to hot water supply in public buildings.	Colin Cleary	Final year thesis	2017/18	Environmental Science and Health
DCU Exemplar Carbon Neutral Campus	Safa Al Mashaikhi	Final year thesis	2017/18	Environmental Science and Health



Science Technology Engineering Art Math

On Friday, October 20, 2017 - 18:00 to Sunday, October 22, 2017 - 20:00 DCU together with Intel Ireland organised the first ever STEAM Hackathon weekend which took place at DCU St. Patrick's Campus.

The 54-hour free event brought together DCU student innovators, creatives, entrepreneurs and developers to build something real and innovative using Intel technology. Students had the opportunity to learn new skills, meet new people, build new solutions and have lots of fun!

About the 'STEAM' challenge - Putting the 'A into STEM Education – This enables students to explore their artistic and creative sides in combination with STEM (Science, Technology, Engineering, Maths) skillsets to generate new exciting and innovative experiences or products

Link to YouTube of STEAM Hack <a href="https://www.youtube.com/watch?v=mh3tS2u-qtA">https://www.youtube.com/watch?v=mh3tS2u-qtA</a>

### BA in Communications/Journalism/Media Studies

Dr. Brenda McNally, who works in Media Representations of Climate Change and Low Carbon Transition in the School of Communications has set up a challenge for first years in the BA programmes to think up communication events for the following list of Green Initiatives:

- Paper waste project in St. Patricks Campus
- The removal of all NON Recyclable Coffee Cups on ALL CAMPUSES
- Support for 'Like Bike' in Week 11
- Create a Green Guide for DCU Students
- Campaign to replace plastic (glasses, containers, spoons ...) in DCU Restaurants with biodegradable alternatives
- Implement 'Adopt a Street' campaign around your campus
- DCU Community Garden Programme of works and engagements
- Drinking water fountains on all campus
- Energy/Water consumption awareness in DCU Residences

They are now working on them at present and will have presentations on the last day of semester (Dec 2017) - I will send you on the good ones (and the names of the students) and you can see if there is anything that might work.

*Linkages to MG334 Business and Society*: This module addresses the key environmental and sustainable development issues facing organisations today. It focuses on the links between corporate social responsibilities, management of the organisation and the environment and on how these may be integrated through strategy and operations. The module assignment require student to research and write a report on one of the following :

- How to make the New Hub sustainable
- Reduce waste production on DCU Campus
- National No Smoking Day on Campus
- Car Sharing Initiative
- Energy Awareness Campaign for Students
- DCU in the Community
- Education integrating sustainability
- Social Enterprise Model for the DCU Community Garden
- Intercampus bike scheme for students

### Space to Grow Module

This module run in St Patricks focused on provide student teachers with an understand of biodiversity and the development and implementation of outdoor teaching tools and methodologies. The module has undertaken several interesting project including establishing and maintaining its own growing space on the SPD campus and well and bring primary school children together to design and build a plastic bottle green house – this project is half way thru



construction and will be finished in 2016/2017.



Within this project trainee teachers also went to work in a preschool in Drumcondra to establish a growing space for the preschool children.

Also as part of this project the student not only created new habitats for birds they recycled old microscope boxes in the process. The group also participated in an bioblitz of the Royal Canal and posted their results on this website

http://www.ispotnature.org/projects/spdroyalcanal.

### New International Project on Sustainability Education that is being funded by the Global Consortium for Sustainability Outcomes (GCSO) (Cliona Murphy/Greg Smith)

The GCSO Education Project recognizes that for the world to become more sustainable, people of all ages need to learn certain principles of sustainability and attain relevant competencies. The GCSO Education project is therefore aimed at supporting primary school teachers from Ireland, Germany, USA and Mexico to effectively teach about sustainability as an integral component of their respective curricula.

The project will involve 80 primary school teachers from the four countries participating in a Continuing Professional Development (CPD) programme that is aimed at developing teachers' conceptual and pedagogical knowledge of Sustainability. The CPD programme will support teachers in helping children to develop essential sustainability competencies while engaging with different subject areas in the different National Curricula.

*In Ireland* staff from the Institute of Education (IOE) in DCU will develop and implement a CPD programme on Sustainability that will be tailored to suit the Irish primary school context. The content of this tailored CPD programme will in particular integrate with the SESE, English and Mathematics curricula (DES, 1999).

The IOE research team will work closely with the participating teachers to ensure that the content of the workshops is also relevant to each school's environment. The IOE team will work closely with the teachers and their schools to support them in implementing the CPD activities and methodologies in their classrooms and within whole school settings.

# 7. Informing and Involving the Campus and Wider Community

Encompassing such issues as equal access to social resources, corporate governance, community, diversity, culture and quality of life, social sustainability is one aspect of sustainability but one that is often the weakest in terms of representation. DCU has long recognised the merits and responsibilities of engaging with the wider community and contributing to the social and economic contexts of the community in which we are based. The development of a specific 'Civic Engagement' mission and the establishment of the DCU in the Community Outreach Centre in Ballymun is a solid expression of the commitment which DCU has made to community outreach projects.

The DCU Green Committee/Sustainability Programme has leveraged several of these existing link to enhance our engagement with the local community. We have worked closely with several local organisations and intend to continue and build on these mutually beneficial linkages.

The Community Garden is now open to all of our community internal and external to DCU. We are working closely with the Age Friendly University Initiative at DCU to support intergenerational learning.

### DCU and Cloughjordan ecovillage

After much discussion and work through 2016, in 2017 DCU signed an memorandum of understanding with the Cloughjordan ecovillage. Under this agreement there will be shared learning, research collaboration, internships and the promotion of An Ghaeilge. (See Appendix 6)

### Alumni Party in DCU Community Garden (Summer 2016)



In summer 2016 the DCU Alumni Office held a garden party in the DCU Community Garden.

### Focus Group on Engagement

As part of a Master programme in the Business School a group of student lead by Mariane Galpo undertook a focus group looking at student engagement in sustainability activities on campus. Full report in appendices.

### Seomra Caidrimh

Sustainability is seen as the balancing of social, cultural, economic and environmental activities to create a sustainable future for all. A fundamental element of the Irish culture is our language. There are currently ~75,000 daily speakers of Irish and according to our latest census out of a national population of 4.7million approx. 1.7million indicate they can speak Irish. The most recent Government strategy has indicated that it is targeting a daily speaker rate of ~200,000-250,000 by 2030. DCU seeks to support this strategy by supporting staff and students to positively engage with the Irish language. As part of this the Seomra Caidrimh (Common Room) was revamped on the DCU St Patrick's Campus. The Seomra Caidrimh is open to all students, all staff and the DCU community and facilitates a wide range of Irish language events, workshops and information sessions. The space is also available for those who wish to use and improve their cúpla focal in a welcoming and comfortable environment.

Tá an Seomra Caidrimh oscailte do mhic léinn, foireann na hOllscoile agus pobail DCU. Bíonn réimse leathan d'imeachtaí, ceardlanna agus seisiúin eolais ar siúil sa Seomra. Tá an spás ar fáil dóibh siúd ar mian leo a gcuid Gaeilge a úsáid agus a fheabhsú i dtimpeallacht fháilteach agus compordach.

### **DCU Procurement Policy**

DCU Procurement Policy reflect DCU desire to ensure that sustainability is considering in the operations of the DCU campuses. A copy of our Procurement policy can be seen in Appendix 9.

### DCU Community Garden Engagement – CSR Days

In Sept 2015 Marks & Spencer Ireland launched Spark Something Good, an initiative aiming to inspire employees and customers to donate their time to improve the lives of others in their local community. Spark Something Good Dublin engaged in 24 projects over seven days across the city, with M&S is calling upon volunteers to get involved and take action for social good. One of these project was the DCU Community Garden with ten M&S Staff and volunteers weeding and mulching their way through the DCU community garden.

The An Taisce Green Communities CSR day on the 17th of September saw 17 volunteers from Deloitte take part in a very successful second volunteer day at the DCU Community Garden. Their efforts have visibly helped progress the gardens creation, and its production. This September volunteer day saw four work groups active within the garden from 10 am

### https://www.facebook.com/An-Taisce-Green-Communities-133325730075465/timeline/

In May 2016, An Taisce again brought along another CSR group to the DCU Community Garden. 50 volunteers from AOL worked in the garden all day chopping down weeds and mulching fruit bushes and trees as well as funding and putting up the second polytunnel in the garden.

The DCU Community garden is very happy to support lots more CSR days – the joys of a garden is that it keeps growing and there is always lots to do.

### DCU Community Garden and Social Enterprises

DCU community garden is delighted to have signed an agreement with Grow Dome (http://www.thegrowdomeproject.com/) . Grow



Dome are in the process are building an 11 mtr aquaponics grow dome in the DCU Community Garden. Lots more to come on this!!



Figure 50: Grow Dome in DCU Community Garden under construction summer 2017.

### DCU Community Garden and Community Employment

DCU Community Garden now host 2.5 community employment placements who are building their experience and skills to help them progress to further education or employment over the next year. Jason and Marty are both registered with the Royal Horticulture Society and over this last summer have been working on the development of their own enterprise in urban gardening/farming. They are being supported by the DCU Community Garden and have had a garden stall each Friday on the Glasnevin Campus over the summers. Significant effort was needed to ensure that there was fruit and veg for each week with planning and planting schedules. Volunteers from the campus also help out in the garden.



Figure 51: Martin Matthews and Jason Maguire managing the garden stall



Figure 52: Some of the fruit and veg available on the stall (cucumbers, chillies, artichoke, turnips, courgette, salads....)

In addition to Jason and Marty, Paddy spends 50% of his placement working in the garden but also he has with the support of the DCU Office of Student Life has started a small garden on the All Hallow Campus. As well as a small herb plot twenty vintage apple trees have been sown in a new All Hallow orchard. These trees will be transplanted to the new Community Garden space on the All Hallows campus that will be open to all staff, students and local community.



Figure 53: New Orchard at All Hallows Campus

### Adopt a street

The DCU Green Committee has participated in the Adopt a Street initiative for several year and this continued in 2016/2017 with over 20 volunteers participating. DCC have been very helpful in early 2017 with the provision of lots of equipment (pickers, brushes, bags etc) to enable a resource to be put on all three campuses to help facilitate this. This activity is well received by the local community with many coming out to thank volunteers for their efforts - a win for both community and DCU public relations ! There is however some effort needed to manage and organise the groups to go out.



Figure 54: Adopt a street volunteers 2016/2017

### **Blessington Street Basin Project**

The Blessington Street Basin was built in the early nineteenth century to provide a clean water supply to the northside of the city. It was opened in 1810 and officially named 'the Royal George Reservoir'. A reservoir is an area like a lake, where water is kept until it is needed.

The water was brought to Dublin from Lough Owel in Co. Westmeath by the Royal Canal and through a two-mile pipe to Blessington Street. There was a lot of water needed and the Basin could hold four million gallons of water.

In 1869 even more water was needed, and a new reservoir was built at Vartry in Co. Wicklow. However, the Basin continued to supply water to Jameson's distilleries in Bow Street and Power's distilleries in John's Lane until the mid-1970s. It then became a public park but so few Dubliners knew of its existence then that it became known as 'the secret garden'.

The Blessington Street Basin was renovated in 1993-94 and reopened in November 1994 as a local amenity including a walled park with a fountain and a bird sanctuary on its central island. However there are some challenges at the moment with regard to the water quality which has deterioriated significantly in recent year.

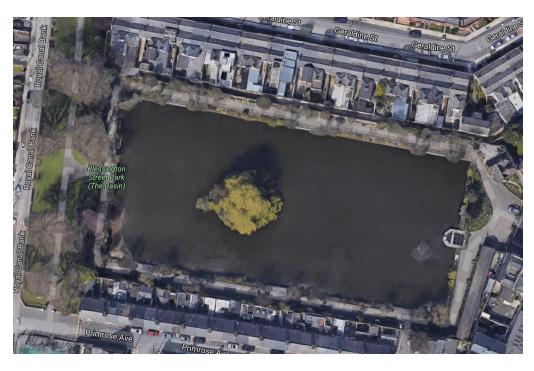


Figure 55: Blessington St. Basin

In 2017 the DCU Water institute was approached regarding the establishment of an outreach project that could provide some expertise for the benefit of the basis. The DCU Water Institute aims to provide some basic analysis of the water contaminant and is hope to work with local residences to raise some necessary funds to provide some additional filtering of the water into the basin.

# 8. DCU Green Charter

The DCU Green Charter has not been updated since it was finalised in 2014. Minor amendments were made in 2015/2016 and 2016/2017. It is proposed that in 2017/2018 that this Charter is fully

reviewed and updated where necessary. This will be undertaken via a shared google document allowing all interested staff and students to make their contribution to the document.

# 9. DCU's Green Committees Green Charter

The Green Committee at Dublin City University, made up of volunteer staff and students, believes in a sustainable future that provides the fair and equitable balance that is needed to share the earth's resources between all its inhabitants. It believes that as an educational institution DCU much tackle this existential challenge through our teaching and learning, research and innovation and by operationally working toward reducing our carbon emissions. It is an enormous task that we must all tackle together.

Our Green Committee is committed to

- embedding sustainable practices across our University
- informing and educating other within the DCU Community about importance of sustainability and why we need to create a more sustainable future
- informing and educating other within DCU on what they can do to have a positive impact both on and off campus
- informing and educating our wider community, including family and friends about importance of sustainability and why we need to create a more sustainable future
- informing and educating our wider community, including family and friends about what they can do to have a positive impact the sustainability of our planet

Specifically in 2017/2018 we are focusing on

### Energy

- Work toward an ISO50001 Standard
- Develop and communicate a energy/carbon management plan
- Raise awareness of energy consumption by Students, Staff and Visitors
- Energy consumption awareness & behavioural change programme in DCU Residences with SAVES Prog
- Seek renewable technology (Solar/wind) for Student Hub

### Water

- Water consumption awareness & behavioural change programme in DCU Residences with SAVES Prog
- Identify leaks and fix
- Communicate water consumption data to all staff and students
- Treat as a valuable resource
- Paper waste project in St. Patricks Campus
- Continue 'Adopt a Street' campaign around your campus
- Drinking water fountains on all campus

### Waste

- Campaign for the removal of all NON Recyclable Cups on ALL CAMPUSES
- Communicate waste information to all staff and studnets
- Campaign to replace plastic (glasses, containers, spoons ...) in DCU Restaurants with biodegradable alternatives

### Biodiversity

- DCU Community Garden Programme of works and engagements
- Pollinator plan for DCU
- Increase awareness of the importance of biodiversity
- Update biodiversity database
- Increase biodiversity on campus through tree planting events

### Transport

- Mobility management plan support active commuting
- Continue Smarter Travel Campus' Walking and Cycling Challenges
- Support for 'Like Bike' in Week 11

### Communications

- Info wall on all campus providing current consumption data on key metrics including initiatives to reduce and scope to accept suggestions
- Create a Green Guide for DCU Students

To get involved just email sustainability@dcu.ie

http://www.dcu.ie/ocoo/sustainability/sustainable-campus.shtml https://www.facebook.com/sustainabilitydcu https://www.facebook.com/DCUCommunityGarden

Here is a link to the Charter: https://www4.dcu.ie/ocoo/sustainability.shtml

# **10.Appendices**

- 1. Sustainability/Green Committee Online Engagement Report
- 2. DCU Green Committee Action Plan 2016/2017/2018 (rolling)
- 3. Coffee Cup Report
- 4. PakMan Awards
- 5. Biodiversity Worksheet
- 6. Cloughjordan agreement
- 7. Horticulture Histories
- 8. Urban Garden Workshop Series
- 9. DCU Procurement Policy

# Appendix 1

Draft Report on Staff/Student engagement on Sustainability

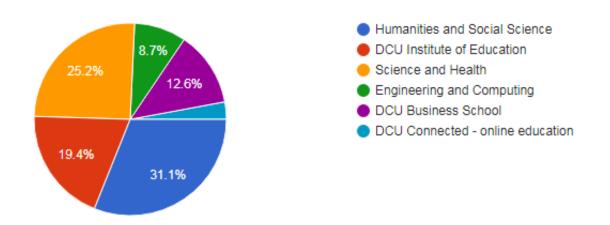
Oct/Nov 2017

Report date : 06/11/2017



### Introduction

In early October 2017 an email was circulated to all staff and students at DCU regarding engagement on sustainability activities at DCU. This is a brief report on the response to this email.



### Figure 56: Breakdown of respondents across faculty

Figure 1 above shows the breakdown of the response rate to the online Sustainability/Green Committee. The table below compares this with the percentage of student in each faculty – this would appear to indicate that the response rate is in line with the representation of students with perhaps less student responding from the Business School and more from the Institute of Education.

Faculty	Percentage of student 2016/2017	Response rate
Humanities and Social Sciences	26%	31.1%
Science and Health	23%	25.2%
DCU Business School	22%	12.6%
DCU Institute of Education	17%	19.4%
Engineering and Computing	12%	8.7%

		Membership	of Green Co	ommittee
Role in DCU	Total	Maybe	No	Yes
Postgraduate Student	16	8	3	5
Staff	40	11	13	16
Undergraduate Student	47	15	11	21
Grand Total	103	34	27	42

### Figure 57: Breakdown of respondents

# I would like to join the DCU Green Committee

103 responses

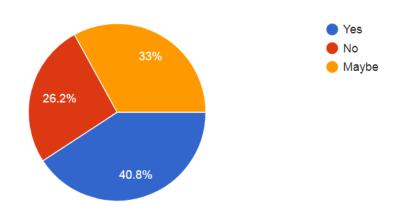
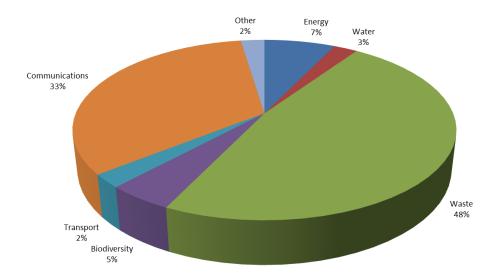


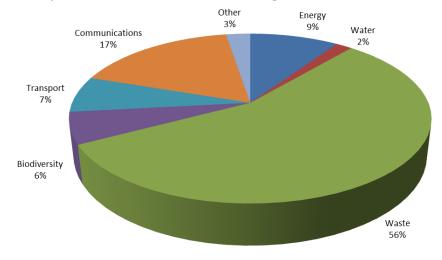
Figure 58: Response indicating that 42 people have indicated that they wish to join the DCU Green Committee for 2017/2018 (an additional 34 indicated that may like to join the committee)

It is evident from these numbers that there is strong support for the Green Campus programme across DCU at all levels. What is less evident is how to manage a committee of ~74 members !

In an attempt to make this more manageable, responses to individual input have been thematically grouped across the broad An Tasice Green Campus themes i.e. Energy Water, Waste, Biodiversity, Transport and Communications. The results of this



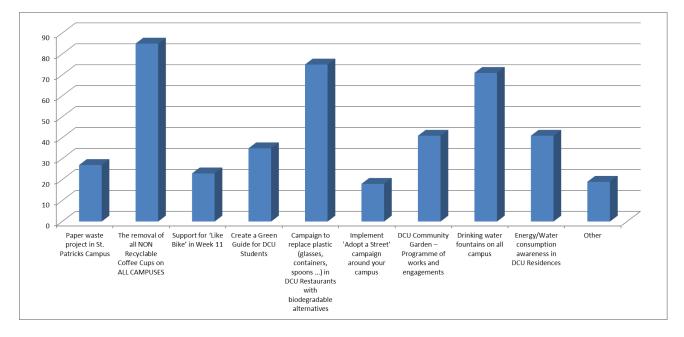
# Figure 59: Breakdown of responses to individual contribution for those who wanted to join Green Committee



## What could you do in DCU to make it more green?

Figure 60: Thematic analysis of ALL responses to individual contribution, note that in several cases more than one theme was identified in the response.

It is evident that a significant number are focused on or view waste as a major element of being more sustainable. It is encouraging to see that many see communications as a key activity that needs addressing.



In addition the respondents were polled on their support for a list of pre-identified projects.

Figure 61: Respondents support for specific projects

Top three supported project	% support from respondents
The removal of all NON Recyclable Coffee Cups on ALL CAMPUSES	83%
Campaign to replace plastic (glasses, containers, spoons) in DCU Restaurants with biodegradable alternatives	73%
Drinking water fountains on all campus	69%

### Proposal :

It is therefore proposed to create three working groups as part of the DCU Green Committee:

Working Group 1: Tackling Waste incl 'non-recyclable cups' and 'once use plastics'

Working Group 2: Communications

Working Group 3: Sustainable Campus (Energy, Water, Biodiversity, Transport, Other)

Reviewing all the responses here is a breakdown of how these committees would breakdown

### Table 13: Summary of DCU Green Committee 2017/2018

	WG1	WG2	WG3	Total
Staff	10	8	9	27
Postgraduate Student	8	3	2	13
Undergraduate Student	25	5	4	34
	43	16	15	74

### Table 14: Green Committee Membership

Full name	Faculty	Role 2	Working Group	Green Committee Status
Aileen O'Driscoll	Humanities and Social Science	Staff	WG1	Maybe
Áine Lawless	Humanities and Social Science	Undergraduate Student	WG1	Maybe
Aisling Byrne	DCU Institute of	Undergraduate	WG1	Maybe

	Education	Student		
aisling feeney	Humanities and Social Science	Undergraduate Student	WG1	Maybe
Aisling sexton	Science and Health	Undergraduate Student	WG1	Maybe
Aisling sexton	Science and Health	Undergraduate Student	WG1	Maybe
Angelica Liem	Humanities and Social Science	Undergraduate Student	WG1	YES
Ann-Katrin Kaimer	DCU Business School	Undergraduate Student	WG1	Maybe
Ashling Moffitt	Humanities and Social Science	Undergraduate Student	WG1	Maybe
Bianca Tampu	Humanities and Social Science	Undergraduate Student	WG1	YES
Bilja Anns Thomas	Science and Health	Undergraduate Student	WG1	YES
Brendan Kelly Palenque	Humanities and Social Science	Undergraduate Student	WG1	Maybe
Bryony Archer	Humanities and Social Science	Undergraduate Student	WG1	YES
Caoimhe Foran	Humanities and Social Science	Undergraduate Student	WG1	YES
Chinchu Pauline Jose	Science and Health	Undergraduate Student	WG1	YES
Cian Hade	Humanities and Social Science	Undergraduate Student	WG1	Maybe
Conor McGeoguh	Science and Health	Postgraduate Student	WG1	Maybe
Daniel Doyle	DCU Institute of Education	Undergraduate Student	WG1	Maybe
Dara Cummins	DCU Connected - online education	Staff	WG1	Maybe
Emma Begley	Humanities and Social Science	Undergraduate Student	WG1	YES
Emma Gallagher	DCU Institute of Education	Undergraduate Student	WG1	YES
Georgiana Suduc	Humanities and Social Science	Undergraduate Student	WG1	YES
Hiba Filaih	DCU Institute of Education	Undergraduate Student	WG1	YES
Huw Leggate	Science and Health	Staff	WG1	YES
lain McMenamin	Humanities and Social Science	Staff	WG1	Maybe
Irene McEvoy	Engineering and Computing	Staff	WG1	Maybe
Iseult O'Donoghue	DCU Institute of Education	Postgraduate Student	WG1	Maybe
Jessie Byrne	Science and Health	Staff	WG1	Maybe
Joseph sullivan	DCU Business School	Postgraduate Student	WG1	Maybe
Kilian Wegner	DCU Business School	Postgraduate Student	WG1	YES
Laura Bartley	Humanities and Social Science	Undergraduate Student	WG1	YES
Lorraine Tham	Science and Health	Undergraduate Student	WG1	YES

Mary Rafter	Science and Health	Staff	WG1	Maybe
Moign Khawaja	Humanities and Social Science	Postgraduate Student	WG1	Maybe
Monica Cappelletti	Humanities and Social Science	Staff	WG1	YES
Niamh Gurrin	DCU Institute of Education	Undergraduate Student	WG1	YES
Olive Maitha	DCU Business School	Postgraduate Student	WG1	YES
Orla Delaney	DCU Business School	Staff	WG1	YES
Orla Sherwood	Humanities and Social Science	Postgraduate Student	WG1	Maybe
Roisin McGrath	Science and Health	Undergraduate Student	WG1	YES
Sarah Connolly	DCU Institute of Education	Undergraduate Student	WG1	YES
Tommy Murtagh	DCU Institute of Education	Staff	WG1	Maybe
Zephra Cooney	DCU Institute of Education	Postgraduate Student	WG1	Maybe
Aoife Anderson	Humanities and Social Science	Undergraduate Student	WG2	YES
Aoife McCrave	Science and Health	Undergraduate Student	WG2	Maybe
Benjamin Mallon	DCU Institute of Education	Staff	WG2	YES
Brenda McNally	Humanities and Social Science	Staff	WG2	YES
Ciara Larkin	Science and Health	Postgraduate Student	WG2	YES
Eoin Campbell	Humanities and Social Science	Staff	WG2	YES
Eoin O'Malley	Humanities and Social Science	Staff	WG2	Maybe
Harry Carr	Science and Health	Undergraduate Student	WG2	Maybe
James Spalding	Science and Health	Staff	WG2	YES
Kateryna Pikalova	Humanities and Social Science	Undergraduate Student	WG2	YES
Louise Curtis	DCU Business School	Postgraduate Student	WG2	YES
Maeve Dupont	DCU Institute of Education	Staff	WG2	Maybe
Mark Brown	DCU Connected - online education	Staff	WG2	YES
Martin Nolan	Science and Health	Postgraduate Student	WG2	YES
Miracle Peromingan	Humanities and Social Science	Undergraduate Student	WG2	YES
Prince Anandarajah	Engineering and Computing	Staff	WG2	YES
Alexandre Rickert Llacer	DCU Business School	Undergraduate Student	WG3	Maybe
Chris Sanchez	Humanities and Social Science	Undergraduate Student	WG3	YES
Danika Sugrue	DCU Business School	Undergraduate Student	WG3	YES

James Carton	Engineering and Computing	Staff	WG3	YES
Jamie Murphy	Humanities and Social Science	Staff	WG3	Maybe
Jenny Lawler	Science and Health	Staff	WG3	YES
John Gallagher	Science and Health	Staff	WG3	YES
Lorraine Ní Gháirbhith	DCU Institute of Education	Staff	WG3	YES
Mairéad Nic Giolla Mhichíll	Humanities and Social Science	Staff	WG3	YES
Michelle sweeney	DCU Business School	Postgraduate Student	WG3	Maybe
Peter Deeney	DCU Business School	Staff	WG3	Maybe
Richard Kelly	Engineering and Computing	Staff	WG3	YES
Shrey bhalla	DCU Business School	Postgraduate Student	WG3	Maybe
Suzanne Brewer	Humanities and Social Science	Undergraduate Student	WG3	YES
Tom McCloughlin	DCU Institute of Education	Staff	WG3	YES

If you would prefer to change working groups or also be included in the other working groups please let me know.

# Appendix 1.1 : Engagement form

-6	Sustainability DCU Projects	2 (
	Sustainability DCU is committed to making DCU campuses more sustainable through various projects, interventions and initiatives. While making DCU campuses safer, clearer and more livable, DCU also aims to demonstrate stewardship by setting a high standard of sustainability action and engagement in Ireland. Such measures require collaboration of individuals and small groups across the campus communities. Therefore, we invite you to fill in this form outlining the projects you are interested in contributing to and are interested in seeing developed.	
	If you would prefer to be anonymous you can just put anon in name and <u>sustainability@dcu.ie</u> in the email fields - but remember if you want to be involved in the green committee please incl your own email address.	
	* Required	
	Full name *	
	Your answer	
	Email address *	
	Your answer	
	Faculty *	
	O Humanities and Social Science	
	O DCU Institute of Education	
	O Science and Health	
	O Engineering and Computing	
	O DCU Business School	
	O DCU Connected - online education	

Undergraduate Student		
Postgraduate Student		
Staff		
Other:		
What could you do in D	OCU to make it more green ? *	
Your answer		
Here are some sugges you would like to suppo	tion from past students please tick any ort *	
Paper waste project in S	St. Patricks Campus	
The removal of all NON	Recyclable Coffee Cups on ALL CAMPUSES	
Support for 'Like Bike' in	n Week 11	
Create a Green Guide fo	or DCU Students	
Campaign to replace pla Restaurants with biodeg	astic (glasses, containers, spoons) in DCU gradable alternatives	
Implement 'Adopt a Stre	eet' campaign around your campus	
DCU Community Garder	n – Programme of works and engagements	
Drinking water fountains	s on all campus	
Energy/Water consumption	tion awareness in DCU Residences	
Other:		
Please identify any spe projects selected in the Your answer	ecific skills you can offer to any of the e previous question *	

I would like to	o join the DCU Green Committee *
◯ Yes	
O No	
O Maybe	
Thank you	
Thank you for takir	ig the time to complete this form. We appreciate your interest in CU and look forward to working together on creating a greener DCU.
Thank you for takir	

## Appendix 1.2 : Email to all staff/students

On 6 Oct 2017 7:18 a.m., "Samantha Fahy" <<u>samantha.fahy@dcu.ie</u>> wrote: Dear All,

DCU is an An Tasice Green Campus, with the Glasnevin Campus having achieved it first flag in 2014. In November this year the Glasnevin Campus will be reassessed for its second flag and the St. Patrick's Campus will assessed for its first and we are hoping to have the All Hallows campus assessed in 2018.

The Green Campus programme along with the management of these assessments are run by the DCU Green Committee. The DCU Green Committees is a voluntary committee composed of students and staff working together to raise awareness and make DCU and our community more sustainable.

While much work has been done by previous green committees for which we are very appreciative, there is lots more to do and to be successful in these assessments your input and help is needed.

Can you please provide your input via <u>this form</u> and if you have some spare capacity please join our DCU Green Committee.

Many thanks,

Sam

From: **Sustain Ability** <sustainability@dcu.ie> Date: 8 November 2017 at 11:02 Subject: DCU Green Committee To: Samantha Fahy <samantha.fahy@dcu.ie>

Dear All,

Further to a call for DCU Green Committee Membership that was sent out in October - I apologies for the delay in getting back to you - it took me some time to review the >100 responses.

I am attaching a short report on this and how I tried to make a manageable committee - I welcome all feedback including nominations (self nominations is absolutely fine) Also for your information the An Taisce Green Campus Site Visit for DCU is on Wed 22 November from 11.30 - 15.00 on the St. Patrick's Campus - if any of you would like to attend please let me know - below is a draft agenda.

I look forward to hearing from you.

Kind regards,

Sam

Appendix 2 : DCU Green Committee Action Plan 2016/2017/2018 (rolling)

Energy Action Plans			
Goal1 : Reduce energy consumption and increase awareness wit			-
Action	Person/Group Responsible	Time Frame	Status
Baseline data available for 2010/2011/2012	Richy Kelly, Estates Office	Sep-12	Completed
Campaigns–run sequentially (one after the other ) to allow effective monitoring:	Paul Doherty, Myrian Castanie, Alan Mangan, Mark Young	Feb/Mar/Apr 2013	Completed
Turn off computer (+ other non essential power consumers)	Paul Doherty , Mark Young DCU SU	Feb/Mar/Apr 2013	Completed
Turn off lights	Paul Doherty , Mark Young DCU SU	Feb/Mar/Apr 2013	Completed
Turn off wifi	Paul Doherty , Mark Young DCU SU	Feb/Mar/Apr 2013	Completed
Turn off vending machines	Paul Doherty , Mark Young DCU SU	Feb/Mar/Apr 2013	Completed
Awareness campaign on 'turn heat off before opening windows	Paul Doherty , Mark Young DCU SU	Feb/Mar/Apr 2013	Completed
Awareness campaign on 'turn heat off before opening windows	Energy Group	Feb/Mar/Apr 2014	Completed
Awareness campaign on 'turn heat off before opening windows	Energy Group	Oct/Nov/Dec 2014	Completed
Goal 2 : Campus Wide Shut Down to increase awareness			-
Action	Person/Group Responsible	Time Frame	Status
Combined Gaelic/Green Week Event	Paul Doherty, Mark Young, Sam Fahy, Richy Kelly	Week 8 2012	Completed
Christmas Shutdown 2012	Estates/Sustainability	Dec-13	Completed
Christmas Shutdown 2013	Estates/Sustainability	Dec-13	Completed
Earth Hour 2014	Sustainability DCU	Mar-14	Completed
Goal 3 : Computer Power down across campus campaign			
Action	Person/Group Responsible	Time Frame	Status
Identify costs associated with switch off screen / computer	Green Committee/Sam Fahy	Mar-12	Completed
Awareness campaign re power down	Green Committee/Sam Fahy	Oct-12	Ongoing
Identify potential autoshut down mechanisms	ISS	Nov-12	Compelted
Investments in technology	ISS/DCU	Jan-13	Completed
••	ISS/DCU	Jun-17	
Campus wide shut down project rejuvenated	133/000	Juli-17	Ongoing
Goal 4 : Use the stairs campaign			
	Dorron /Group Bornonsible	Timo Frama	Status
Action	Person/Group Responsible	Time Frame	Status
Energy savings & increased fitness from using stairs rather than lift.	Alan Mangan, Sam Fahy, Daniel Tetis	Jan-15	Completed
Identify how much energy required to walk flight of stairs	Alan Mangan, Sam Fahy, Daniel Tetis	Jan-15	Completed
Equate energy consumed/savings to health benefits/environmental savings/financial savings	Alan Mangan, Sam Fahy, Daniel Tetis	Jan-15	Completed
Draft poster to represent information and encourage stairs	Alan Mangan, Sam Fahy, Daniel Tetis	Jan-15	Completed
Put up poster at each lift shaft	Alan Mangan, Sam Fahy, Daniel Tetis	2015/2016	ongoing (issue with poster - no sweets
Transition yr project	Alan Mangan, Sam Fahy, Daniel Tetis	Jan-15	Completed
Goal 5: Last out lights out			
Action	Person/Group Responsible	Time Frame	Status
Design poster	Saorla Kavanagh, Mariane Galpo	Sep-14	Completed
Get authorisation to post posters	Saorla Kavanagh	Sep-14	Completed
Poster popular areas and room exits	Saorla Kavanagh, Mariane Galpo	Oct - Jan 1415	Completed
Monitor room lights	Mariane Galpo	Mar-15	Completed
Report on room light	Mariane Galpo	May-15	Completed
Goal 6: Renewable energy in Comm Garden			
Action	Person/Group Responsible	Time Frame	Status
Design master project	Sam Fahy/S Daniels	Sep-14	Completed
Appoint student	Susuitha	Sep-14	Completed
Undertake project to install urban wind turbine in garden	Susuitha	Oct - May 1415	Completed
Deployment in Garden	Susuitha	July- Aug 2015	Stalled
Report on room light	Susuitha	Sep-15	Stalled
Install solar panel in GD	S. Daniels/Student tbc	July- Aug 2015	Stalled
Feasibility of Renewables in CG - STUDY	T. Meaney/Sam Fahy	Sept 2016 - May 2017	Completed
		3000 2010 May 2017	completeu
Goal 7: Reduce Energy Concumption via Behavioural Change (for	cus on campus res ??)		
Action	Person/Group Responsible	Time Frame	Status
Design project	Sam Fahy/S Daniels	2015/2016	Stalled
Aquire funding !	Sam Fahy/S Daniels	2015/2016	Stalled
Lias with DCU Psycology Dept	Sam Fahy/S Daniels	2015/2016	Stalled
SAVES Programme	Darcy Lonergan/Sust	2017/2018	Funded and Progressing
Goal 8: Fossil Fuel Divestment			
Action	Person/Group Responsible	Time Frame	Status
	Denah/EcoSoc	2015/2016	Done
Design Programme	Bendin/200000		
Design Programme Establish web presence	Denah/EcoSoc	2015/2016	Done

Letter to President of DCU	Denah/EcoSoc	2015/2016	Done
Await response	President DCU	2015/2016	Ongoing
Divest	DCU	2016/2017	Divested
Formal Announcement	DCU	2017/2018	waiting
Goal 9: Energy Reductions			
Action	Person/Group Responsible	Time Frame	Status
LED Retrofitting	DCU Estates	2015/2016	Ongoing
Building retrofits	DCU Estates	2015/2016	Ongoing
Newsletter	DCU Estates/Sustainability	2016/2017	Ongoing
Goal 10: Awareness			
Action	Person/Group Responsible	Time Frame	Status
Induction Info for Staff and Students	Sustainability	2014 - 2017	Ongoing
Newsletter - need to work with Estates to restart for 2016/2017	DCU Estates/Sustainaiblity	2016/2017	Ongoing
Info Campagin at Glas/SP/AH	DCU Estates/Sustainaiblity	2016/2017	Ongoing
Orientation Sessions - Students	Sustainability	2010/2017	Ongoing
Orientation Sessions - Staff	Sustainability	2014 - 2017	Ongoing
Goal 11: Carbon Neurtal Campus	Sustainability	2014 - 2017	Oligoling
Action	Person/Group Responsible	Time Frame	Status
Assess Carbon footprint of Energy	Sean Walpole/S Fahy/Estates/e3	Q2/3 2016	Ongoing
Identify strategy and pathway to Carbon neutral	DCU Estates/Sustainaiblity	2016/2017	Ongoing
Implement strategy	DCU Estates/Sustainaiblity	2016/2017	Ongoing
2016 Carbon Footprint	Green Committee/Sustainability	2016/2017	Ongoing
DCU Carbon Management Plan	DCU Estates/Sustainaiblity	2016/2017	Ongoing
		2010/2017	Oligoling
Goal 12: Better Energy Community			-
Action	Person/Group Responsible	Time Frame	Status
Project identification and grant application	R Kelly DCU Estates	2016/2017	Sucessful
Retro fit high efficienty boilers in AHC	DCU Estates	2016/2017	completed
LED lighting in DCU G MSCP	DCU Estates	2016/2017	completed
Join Better Energy Community Network	DCU Estates/Sust	Q4 2017	completed
Energy awareness prog for DCU staff	Sust	Q1 2018	planned
Home Energy Kit for DCU staff	SEAI/Sust	Q4 2017	planned
Goal 13: ISO 500001			
Action	Person/Group Responsible	Time Frame	Status
Sign up for management standard for energy and water on all			
campuses	Estates (R. Kelly)/Sust (S. Fahy)	Q1 2017	completed
Site review	ISO/DCU Estates	Q3/Q4 2017	Ongoing
Improvement Implement strategy	ISO/DCU Estates	2017/2018	Ongoing
, , , , , , , , , , , , , , , , , , , ,			
Goal 14:Hot Water Project			
	Person/Group Responsible	Time Frame	Status
Action Remove hot water in public sanitaty facility	Sust/Estates	2016-2018	Juito

	Person/Group Responsible           LowFlow/DCU Estates           LowFlow/DCU Estates           LowFlow/DCU Estates           DCU Estates	Time Frame 2016/2017 2016/2017 2016/2017 2016/2017 2017/2018 Time Frame 2016/2017/2018	Status completed completed completed completed completed ongoing Status funded by GCSO ongoing
12: Leaks Idneification on tification of water leaks on Glasnevin tification of water leaks on APC tification of water leaks on AHC ks programme to fix leaks ong works programme incl sensors/meter etc 12: Hot water Project	LowFlow/DCU Estates LowFlow/DCU Estates LowFlow/DCU Estates DCU Estates DCU Estates DCU Estates	2016/2017 2016/2017 2016/2017 2016/2017 2016/2017 2017/2018	completed completed completed completed ongoing
I 12: Leaks Idneification n tification of water leaks on Glasnevin tification of water leaks on SPC tification of water leaks on AHC ks programme to fix leaks	LowFlow/DCU Estates LowFlow/DCU Estates LowFlow/DCU Estates DCU Estates DCU Estates	2016/2017 2016/2017 2016/2017 2016/2017	completed completed completed completed
12: Leaks Idneification on tification of water leaks on Glasnevin tification of water leaks on SPC tification of water leaks on AHC	LowFlow/DCU Estates LowFlow/DCU Estates LowFlow/DCU Estates	2016/2017 2016/2017 2016/2017	completed completed completed
12: Leaks Idneification 2n tification of water leaks on Glasnevin	LowFlow/DCU Estates	2016/2017	completed
12: Leaks Idneification			
			1
tify strategy and pathway to Carbon neutral ement strategy	DCU Estates/Sustainability DCU Estates/Sustainability	2016/2017 2016/2017	Ongoing
ss Carbon footprint of Water	Sean Walpole/S Fahy/Estates DCU Estates/Sustainaiblity	Q2/3 2016 2016/2017	Ongoing Ongoing
11: Carbon Neurtal Campus on	Person/Group Responsible	Time Frame	Status
vis and recommend	Ellen Kelly/S Fahy	Q1 2016	Completed
ntify water consumtpion & mode ey	Ellen Kelly/S Fahy Ellen Kelly/S Fahy	Q1 2016 Q1 2016	Completed Completed
ew volume/mode of water consumption on campus	Ellen Kelly/S Fahy	Q4 2016	Completed
10: Potable Water Bottles - Research on	Person/Group Responsible	Time Frame	Status
		~~~~~~	
ating of fountain map with identified gaps osal to DCU Estates for gap filling	Thomas Dorian, DCU SU DCU SU/DCU Green Committee	Q1 2018 Q1 2018	planned planned
ew of fountains on all campuses	Thomas Dorian, DCU SU	Q4 2017	underway
e order Illation and commissioning	Sam Fahy DCU Estates/S Fahy	Jul-15 Aug-15	Completed Completed
tify fountation	DCU Estates/S Fahy	Jun-15	Completed
on tify location for Bottle fountaion	Person/Group Responsible SU/SF	Time Frame Jun-15	Status Completed
9: Potable Water Fountations			· ·
inise and run event ich clips	team Clionadh, Ross, Mohammed	Mar-15 Mar-15	Completed Completed
et	Sam Fahy	Mar-15	Completed
ge Local schools ide St. Aidans/St. Pat NS with instruciton for how to make	Sam Fahy,	Jan - Feb 2015	Completed
gn plan for WWD 2015 (22 March 2015)	Leggate etc etc	Jan-15	Completed
n	Person/Group Responsible Sam Fahy, Fiona Regan, Jane Wall, Brendan Heery, Huw	Time Frame	Status
8: World Water Day W/ DCU Water Insititue			
note water rocket to engineering rocket compeition as part of green day	Mariane Galpo Mariane Galpo	Sep-14 Nov-14	Completed Completed
on	Person/Group Responsible	Time Frame	Status
ysis recommendations 7: Water Rocket Competition	Sam Fahy/Mark Argue/Ricky Kelly	Jun-15	Completed
ort	Clionadh Williams	Apr-15	Completed
gn Project ertake project (consumption and behabiour)	Anne Morrissey SF, Clionadh Williams Clionadh Williams, Cody Byrne	Sep-14 2014/2015	Completed Completed
on	Person/Group Responsible	Time Frame	Status
ss SP and AH 6: Water Consumption in DCU Sports Complex	DCU Estates	2016/2017	Ongoing
ement repairs	DCU Estates	2016/2017	Ongoing
t flow rate identified identification plan under development	LowFlow Report DCU Estates	Feb-16 2016/2017	Completed Ongoing
ose addition meter to enable better management	LowFlow Commissioned	Jun-15 Feb-16	Completed
ligh info to DCU	Sam Fahy/Mark Argue/Ricky Kelly	Mar-15	Completed
ysis water bills for consumtion data pare date with other ECIU universities	Sam Fahy, Sam Fahy	Sep-14 Oct-14	Completed Completed
er water information for DCU Campus	Mark Argue/Sam Fahy	Sep-14	Completed
5: Water Consumption on Campus	Person/Group Responsible	Time Frame	Status
E: Water Concumption on Computer			
ntial to replicate for other CG	TBC	2015/2016	Ongoing
oy sand filter	Ross Begg	Mar - Apr 2015 May-15	Completed Completed
ertake project	Andrew Jordan	2014/2015	Completed
pint student	Ross Begg Ross Begg, Fiona Regan, Sam Fahy, Brendan Heery,	Sep-14	Completed
ect Descriptor	Sam Fahy/Fiona Regan	Sep-14	Completed
on	Person/Group Responsible	Time Frame	Status
4: Rain water treatment in CG	<u>ا</u>		· · · · · · · · · · · · · · · · · · ·
E : Map of water bottled needs to be redone	твс	2015/2016	TBC
ersion to DCU logo on bottles proposed by SU	SU	Jun-16	Ongoing
er bottles for sale in SU water bottles for sale in SU with SU logo	Sam Fahy/SU SU	2014/2015 Jun-15	Completed Completed
reusable water bottle in all first year orientation packs	Water bottle group	Sep-14	Completed
tify suitable bottle	Water bottle group	May-14	Completed
er bottle for first year orientation packs	Sam Fahy	Apr-14	Completed
ss student feedback on reusable water bottles via FB tify units/groups within DCU that could financial support a	Lorna Finnegan	Feb-14	Completed
er information on potential reusable water bottles	Saorla Kelly Kavanagh, Lorna Finnegan, Sam Fahy	Oct-13	Completed
on	Person/Group Responsible	Time Frame	Status
Il system 3 : Water Bottles	Abdul Ali Hassan, Brendan Heery/ water team	Nov-13	Completed
urces)	Abdul Ali Hassan, Brendan Heery/ water team	Nov-13	Completed
en sheds ce materials for RWH system (with limited/no financial	Abuur Air Hassail, Breiluan Heelyy water team	001-13	completed
ss possibility of rain water harvesting (RWH) on community	Abdul Ali Hassan, Brendan Heery/ water team	Oct-13	completed
2 : Water Harvesting for Community Garden	Person/Group Responsible	Time Frame	Status
cket competition	Abdul Ali Hassan, Brendan Heery/ water team	Mar-14	Completed
n Day 3 - Water w Movie	Water team Water team	Mar-14 Mar-14	Completed Completed
reness campaign	Water team	Oct-13	Ongoing
1 : Reduce Water Consumption on Campus & At home	Person/Group Responsible	Time Frame	Status

Waste Action Plan			
Goal 1 : Segregated bins in Student Hub aiming to incre	ase % diverted from Landfill		
Action	Person/Group Responsible	Time Frame	Status
Agree waste level reduction	Green Committee	Feb-13	Completed
Install internal recycling bin	Mark Young, Kathleen Whelan	Mar-13	Completed
Promote use of bin Assess impact	Mark Young, Paul Doherty, Patrick Keane Mark Young, Paul Doherty, Patrick Keane	Mar – May 2013 May-13	Completed Completed
Assess impact	Mark Tourig, Faul Doneity, Father Realie	Widy-15	Completed
Goal 2 : Reduce total tonnage of waste produced (per l	nead of student) via Awareness campaigns, Seminars, G	reen Screens	
Action	Person/Group Responsible	Time Frame	Status
Assess the level of waste produced per student in baseli	Sam Fahy	Dec-12	Completed
Focus on printing and paper consumption	Anne Morrissey, Myrian Castanie, Cecilia Fenech	Dec-12	Ongoing
Awareness campaign on reducing printing	Green Committee FB	Oct-13	Ongoing
Awareness campaign on sustainable printing practices	Green Committee	Oct-13	Ongoing
Awareness campaign on Green Screens SU policy on printing	Richy Kelly/Sam Fahy Lorna Finegan	Oct-13 Oct-13	Ongoing Ongoing
DCU policy on printing	Sam Fahy	Dec-12	Ongoing
MG334 Student assessment of printed assignments	MG334/Sam FAhy	Apr-14	Ongoing
Goal 2a : Reduce paper from SU elections			-
Action	Person/Group Responsible	Time Frame	Status
Paper free elections	NEW CG 2015/2016	2015/2016	TBC
Promote diginal alternatives	NEW CG 2015/2016	2015/2016	TBC
get buy in from SU	NEW CG 2015/2016	2015/2016	TBC
Goal 2b : Reduce enourmour paper per academic prog	ramme (REAP)		
Action	Person/Group Responsible	Time Frame	Status
analysis programme vs consumption of paper (this is po		Summer 15	TBC
Identify high consuming programmes	Mark Glynn (TEU), Sam Fahy	Summer 15	TBC
Idenitfy possible reduction mechanisms via teaching ena		2015/2016	TBC
Implement changes and monitor			
	nead of student) via Awareness campaigns, Seminars, G		
Action	Person/Group Responsible	Time Frame	Status
Assess the level of waste produced per student in baseli		Dec-12 Dec-12	Completed
Focus on printing and paper consumption Awareness campaign on reducing printing	Anne Morrissey, Myrian Castanie, Cecilia Fenech Green Committee FB	Oct-12	Ongoing Ongoing
Goal 3 : Potable Water Points & Campaign to reduce pl		00015	Ongoing
Action	Person/Group Responsible	Time Frame	Status
Investigate potable water points on campus	Paul Doherty, Sam Fahy	Dec-12	Completed
Map potable water points on campus (Draft 1)	Water Team : Abdul Ali Hassan (Leader), Saorla Kelly	Nov-13	Completed
Post map on FB and seek corrections/additions	Water Team	Feb-14	Completed
Map potable water points on campus incl feedback	Water Team	Sep-14	To do
(Draft 2)		•	
Get student feedback on reusable bottle for sale in SU (I		Jan-14	Completed
Open discussion with DCU Units who may be interested		Jan-14	On going
Identify DCU Units Gather Info on potential bottles	Sam Fahy Sam Fahy, Saorla Kelly Kavanagh, Lorna Finnegan	Mar-14 Jan – Apr 2014	Completed Completed
Presentation to DCU Units	Sam Fahy	Apr-14	Ongoing
Selection of water bottle + design	DCU Water Bottle group	May-14	Ongoing
Purchase of water bottle	Sam Fahy	May-14	Ongoing
Water bottle in first year packs	SU + SSD	Sep-14	Ongoing
Water bottles for sale in SU	Sam Fahy/SU	2014/2015	0
New water bottles under consideration	SU	Jun-15	Ongoing
NOTE : Map of water bottled needs to be redone	Thomas, DCU SU Clubs officer	2017/2018	Commenced Q4 2017
Goal 4 : Reusable Coffee cups			I
Goal 4 : Reusable Coffee cups Action	Person/Group Responsible	Time Frame	Status
		Time traffic	
All members of Green Committee provides with their	Sam Fahy	Mar-12	Completed (This was onl possible for first year due to budget constriants)
own KeepCup			
	Sam Fahy/Trispace	Sen-12	Completed
Open discussion with Catering on Campus	Sam Fahy/Trispace Sam Fahy	Sep-12 Dec-12	Completed Completed
Open discussion with Catering on Campus Distribute reusable coffee cups to Green Committee	Sam Fahy	Dec-12	Completed
Open discussion with Catering on Campus Distribute reusable coffee cups to Green Committee Identify trail cup for sale on campus		·	· · · · · · · · · · · · · · · · · · ·
Open discussion with Catering on Campus Distribute reusable coffee cups to Green Committee Identify trail cup for sale on campus Trial reusable cups with 20% discount for BYOC	Sam Fahy TriSpace	Dec-12 Dec-13	Completed Completed
own KeepCup Open discussion with Catering on Campus Distribute reusable coffee cups to Green Committee Identify trail cup for sale on campus Trial reusable cups with 20% discount for BYOC Promote reusable coffee cups Awareness campaign on coffee cups	Sam Fahy TriSpace TriSpace	Dec-12 Dec-13 Dec-13	Completed Completed Ongoing

Camput - Seli paper cups project Sam Fahy/Cody Ryrne 0.115 Set approval for DCU reusable cup Sam Fahy Prohase cups Prohase	Completed Completed Completed Completed Completed Completed Completed ongong compelted
Sam Fahy         Mar-15           beign promotional programme based on motivating cody Byrne         Cody Byrne         Mar-15           cody Byrne         Cody Byrne         Mar-15           set agreement for all coffee outlets to sell cups         Waste committee with Trispace, Helix and Spar         O1 15           paptor cups         Sam Fahry/Cody Byrne         May 15         May 15           set agreement for all coffee outlets to sell cups         Sam Fahry/Cody Byrne         May 15           set agreement for all coffee outlets to sell cups         Sam Fahry/Cody Byrne         May 15           set agreement for all coffee outlets to sell cups         Sam Fahry/Cody Byrne         May 15           set agreement for all coffee outlets to sell cups         Sam Fahry         Jun-15           set agreement for all providers to restore         Sam Fahry         Jun-15           set agreement for all providers to restore         Sam Fahry         G2 2017           set agreement for all providers to restore         DCU GC         G2 3017           set after for analysis of bino on set for motion set for motion agreement bins         Time Frame           set after for analysis of bino on set for marking to bino for analysis of bino con set for an alysis of bino for analysis of bino con set for analysis of bino con set for analysis of bino for analysis of b	Completed Comp Completed Completed Completed ongong compelted
besign promotional programme based on motivating     Cody Byrne     Mar-15       actors - different for diffent departments     Waste committee with Trispace, Helix and Spar     Q1 15       set agreement for all coffee outlets to sell cups     Sam Fahy/Cody Byrne     Mar-15       all out     Mar-15     Mar-15       paper discussion with all coffee providers to restock     Sam Fahy/Cody Byrne     Mar-15       paper discussion with all coffee providers to restock     Sam Fahy/Cody Byrne     Mar-16       paper discussion with all coffee providers to restock     Sam Fahy/Cody Byrne     Q2 2017       paper discussion with all coffee optication of the paper discussion of the cup campaign     DCU GC     Q2 017/2018       call 5 External Segregated bins (Source and install trial external segregated bins)     Time Frame       cational coffee cup campaign     DCU GC     Deu Doherty, Sam Fahy     Summer 2013       cation of trial project on site from three     Paul Doherty, Sam Fahy     Summer 2013       cated trial bins outpilers     Paul Doherty, Sam Fahy     Sep-13       cated trial project (Environmental Science and hane Marrissey, Sam Fahy     Sep-13       cated the regerment descriptor for analysis of bins on dans on dans of bins on dans of bins on dans on dans of bins on dans on dans of dans on dans on dans of dans on dans on dans of dans on dans of dans on dans of dans on dans on dans fahy     Apr-14       ureque all staft & Students on Bins     Aolfe Fallo	Comp Completed Completed Completed ongong compelted
actors - different for diffent departments     Cool pyrite     MMT-13       act agreement for all coffee outlets to sell cups     Waste committee with Trispace, Helix and Spar     Q1 15       ell out     MMT-13     MMT-13       ell out     MMT-13     MMT-13       pen discussion with all coffee providers to restock     Sam Fahy/Cody Byrne     MMT-13       appen discussion with all coffee providers to restock     Sam Fahy/Cody Byrne     Q2 2017       narry side of DCU Cup consumtpion     Mariane Galpo     2016/2017       teve design of DCU CC     Sf/Comms     Q2 2017       teve design of DCU CC     DCU SU     Q3 2017       tational coffee cup campaign     DCU GC     Q2 10/2/2018       cold 5: External Segregated bins (Source and Install tral external segregated bins)     Summer 2013       basite from tions for trail project on site from three     Pario Doherty, Sam Fahy     Summer 2013       basite from tional project on site from three     Estates, Paul Doherty, Sam Fahy     Sep-13       circular learner veive to participating companies     Sam Fahy     Sep-13       circular learner veive to participating companies     Sam Fahy     Apr-14       analysis outert so bins     Aoffe Fallon, Anne Morrissey, Sam Fahy     Apr-14       urry all staff & Students on Bins     Aoffe Fallon, Anne Morrissey, Sam Fahy     Apr-14       analysis outertsor	Completed Completed Completed ongong compelted
Sam Fahy/Cody Byrne         May-15           ell out         Mariane Galpo           type         Galpo           participer new CC         DCU SU           Data S : External Segregated bins (Source and install trial external segregated bins)         Gal 30:17           Coling 5 : External Segregated bins (Source and install trial external segregated bins)         Gal 30:17           Coling 5 : External Segregated bins (Source and install trial external segregated bins)         Gal 30:17           Coling 5 : External Segregated bins (Source and install trial external segregated bins)         Gal 30:17           Coling 5 : External Segregated bins (Source and install trial external segregated bins)         Galmer 20:13           Coling 5 : External Segregated bins (Source and install trial external segregated bins)         Summer 20:13           Coling 5 : External Segregated bins (Source and install trial external segregated bins)         Summer 20:13           Coling 1 = posicipited (Environmental Science and install trial external segregated bins on and place of programme)         Acife Fallon, Anne Morrissey, Sam Fahy         Oct 20:13-Jan 20:1           irrulate literature review to participating companies         Sam Fah	Completed Completed ongong compelted
eil out     Map-15       open discussion with all coffee providers to restock page     Sam Fahy     Jun-15       nanysis of DCU Cup consumption     Mariane Galpo     2016/2017       onalysis of DCU Cup consumption     Mariane Galpo     Q2 2017       Order new CC     DCU SU     Q3 2017       otational coffee cup campaign     DCU GC     SF/Comms     Q2 2017       otational coffee cup campaign     DCU GC     SC/Comms     Q2 2017       otational coffee cup campaign     DCU GC     2017/2018     Summer 2013       otational coffee cup campaign     DCU GC     Sc/Comms     Q2 2017       otational coffee cup campaign     DCU GC     Sc/Comms     Q2 2017       otational coffee cup campaign     DCU GC     Sc/Comms     Q2 2017       otational coffee cup campaign     DCU GC     Sc/Comms     Q2 2017       otational coffee cup campaign     DCU GC     Sc/Comms     Q2 2017       otational coffee cup campaign     Science and Install trial external segregated bins)     Time Frame       otations     on firsting propriate     States, Paul Doherty, Sam Fahy     Summer 2013       otations     oafe Fallon, Anne Morrissey, Sam Fahy     Oct 2013-Jan 201       irrulate Review     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       analysis contents of bins     Aoife Fallon	Completed ongong compelted
pan discusion with all coffee providers to restock sam Fahy Jun-15 mays and blue of DCU Cup consumption Mariane Galpo 2016/2017 teve design of DCU Cup consumption DCU SC 002 3017 Toder new CC DCU SC 002 002 002 002 002 002 002 002 002 00	ongong
ups     Sam Fahy     Jun 15       malysis of DCU Cup consumption     Mariane Galpo     2016/2017       ver design of DCU CC     SF/Comms     Q2 2017       Order new CC     DCU SU     Q3 2017       ational coffee cup campaign     DCU GC     2017/2018       ical 5: External Segregated bins (Source and Install tral external segregated bins)     Imme Frame       action     Person/Group Responsible     Time Frame       Bertify potential external bin suppliers     Paul Obherty, Sam Fahy     Summer 2013       set dail bins on site and placed in appropriate     Extaces, Paul Doherty, Sam Fahy     Summer 2013       table firms (Doci If possible)     Extaces, Paul Doherty, Sam Fahy     Sep-13       tirculate literature review to participating companies     Anne Morrissey, Sam Fahy     Oct 2013-Jan 201       tirculate literature review to participating companies     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       malysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       malysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       malysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       malysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       malysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       malysis survey resu	compelted
markys of DCU Cup consumption     Mariane Galpo     2016/2017       teve design of DCU CC     SF/Comms     Q2 2017       teve design of DCU CC     DCU SU     Q3 2017       teve design of DCU CC     DCU SU     Q3 2017       tational coffee cup campaign     DCU GC     2017/2018       call S : External Segregated bins (Source and Install Itral external segregated bins)     Time Frame       call S : External Segregated bins suppliers     Paul Doherty, Sam Fahy     Summer 2013       ext trait bins on site and placed in appropriate     Estates, Paul Doherty, Sam Fahy     Summer 2013       ext trait bins on site and placed in appropriate     Estates, Paul Doherty, Sam Fahy     Sep-13       circulate literature review to participating companies     Sam Fahy     Anne Morrissey, Sam Fahy     Apr-14       ureval alstift & Students on Bins     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       ureval alstift & Students on Bins     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       urey all staff & Students on Bins     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       urey all staff & Students on Bins     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       urey all staff & Students on Bins     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       urey all staff & Students on Bins     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       urey all staff & St	
tew design of DCU CC     SF/Comms     Q2 2017       Order new CC     DCU SU     Q3 2017       Vational coffee cup campaign     DCU GC     2017/2018       Stational coff fee cup campaign     Person/Group Responsible     Time Frame       Gaul S : External Segregated bins (Source and install trial external segregated bins)     Summer 2013       Statish Forganical fpossible)     Summer 2013     Summer 2013       Statish Forganical fpossible     Sam Fahy     Sep-13       Circulate literature review to participating companies     Sam Fahy     Oct 2013-Jan 201       Circulate literature review to participating companies     Sam Fahy     Apr-14       Manylysis survey results     Aolfe Fallon, Anne Morrissey, Sam Fahy     Apr-14       Manylysis survey results     Aolfe Fallon, Anne Morrissey, Sam Fahy     Apr-14       Manylsis survey results     Aolfe Fallon, Anne Morrissey, Sam Fahy     Apr-14       Manylsis survey results     Aolfe Fall	
Drider new CC     DCU SU     Q3 2017       Vational coffee cup campaign     DCU GC     2017/2018       Soal 5 : External Segregated bins (Source and install trial external segregated bins)     Time Frame       Soal 5 : External Segregated bins (Source and install trial external segregated bins)     Time Frame       Seek donations for trial project on site from three     Paul Doherty, Sam Fahy     Summer 2013       esk donations for trial project on site from three     Paul Doherty, Sam Fahy     Summer 2013       est trial bins on site and placed in appropriate     Estates, Paul Doherty, Sam Fahy     Sep-13       cations     Anne Morrissey, Sam Fahy     Oct 2013-Jan 201       citerature Review     Aoife Fallon, Anne Morrissey, Sam Fahy     Oct 2013-Jan 201       circulate literature review to participating companies     Sam Fahy     Jan-14       unrey all staff & Students on Bins     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       nanaysis surver results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       nanaysis surver results     Aoife Fallon, Kattes Office     Apr-14       tanalysis ontents of bins     Aoife Fallon, Kattes Office     Apr-14       etex Sponsorship     Eimear     Donghue, Kathleen     Mar-14       wareness campaign for competition     Eimear Donghue, Mariane Galpo, Saoria Kelly Kavana     Mar-14       deek Sponsorship     Eimear Dono	compelted
Soal 5 : External Segregated bins (Source and Install trial external segregated bins)         Time Frame           Soal 5 : External Segregated bins (Source and install trial external segregated bins)         Time Frame           Seek donations for trial project on site from three         Paul Doherty, Sam Fahy         Summer 2013           eak donations for trial project on site from three         Paul Doherty, Sam Fahy         Summer 2013           eat trial bins on site and placed in appropriate         Estates, Paul Doherty, Sam Fahy         Sep-13           coations         Anne Morrissey, Sam Fahy         Sep-13           ocations         Anne Morrissey, Sam Fahy         Oct 2013-Jan 201           Literature review         Anne Morrissey, Sam Fahy         Apr-14           hanky survey results         Aprife Fallon, Anne Morrissey, Sam Fahy         Apr-14           hanky survey results         Aprife Fallon, Anne Morrissey, Sam Fahy         Apr-14           hanky survey results         Aprife Fallon, Anne Morrissey, Sam Fahy         Apr-14           hanky survey results         Aprife Fallon, Anne Morrissey, Sam Fahy         Apr-14           hanky survey results         Aprife Fallon, Anne Morrissey, Sam Fahy         Apr-14           hanky survey results         Aprife Fallon, Anne Morrissey, Sam Fahy         Apr-14           hanky survey results         Aprife Fallon, Anne Morrissey, Sam	compelted
Vection         Person/Group Responsible         Time Frame           dentify potential external bin suppliers         Paul Obherty, Sam Fahy         Summer 2013           dentify potential external bin suppliers         Paul Obherty, Sam Fahy         Summer 2013           dised forms (local if possible)         Summer 2013         Summer 2013           Set trial bins on site and placed in appropriate         Estates, Paul Doherty, Sam Fahy         Sep-13           vost 4 <sup>th</sup> year project (Environmental Science and tealth Programme) descriptor for analysis of bins on         Anne Morrissey, Sam Fahy         Oct 2013.Jan 201           iterature Review         Aoife Fallon, Anne Morrissey, Sam Fahy         Oct 2013.Jan 201           circulate literature review to participating companies         Sam Fahy         Jan-14           survey all staff & Students on Bins         Aoife Fallon, Anne Morrissey, Sam Fahy         Apr-14           nahysis survey results         Aoife Fallon, States Office         Apr-14           nahysis survey results         Aoife Fallon, States Office         Apr-14           nahysis survey results         Aoife Fallon, States Office         Apr-14           nahysis survey results         Aoife Fallon, Chane Morrissey, Sam Fahy         Mar-14           teport on efficacy of segregated bins         Aoife Fallon, Anne Morrissey, Sam Fahy         Mar-14           tep	ongoing
Vaction         Person/Group Responsible         Time Frame           dentify potential external bin suppliers         Paul Obherty, Sam Fahy         Summer 2013           seek donations for trial project on site from three         Paul Doherty, Sam Fahy         Summer 2013           Sate trial bins on site and placed in appropriate         Estates, Paul Doherty, Sam Fahy         Sep-13           Sott 4 <sup>th</sup> year project (Environmental Science and tealth Programme) descriptor for analysis of bins on         Anne Morrissey, Sam Fahy         Sep-13           Literature Review         Aolfe Fallon, Anne Morrissey, Sam Fahy         Oct 2013.Jan 201           Circulate literature review to participating companies         Sam Fahy         Jan-14           Survey all staff & Students on Bins         Aolfe Fallon, Anne Morrissey, Sam Fahy         Apr-14           Analysis survey results         Aolfe Fallon, Anne Morrissey, Sam Fahy         Apr-14           Analysis survey results         Aolfe Fallon, Anne Morrissey, Sam Fahy         Apr-14           Analysis survey results         Aolfe Fallon, States Office         Apr-14           Analysis survey results         Aolfe Fallon, States Office         Apr-14           Analysis survey results         Aolfe Fallon, Estates Office         Apr-14           Analysis survey results         Aolfe Fallon, States Office         Apr-14           Soal 6	
Vaction         Person/Group Responsible         Time Frame           dentify potential external bin suppliers         Paul Obherty, Sam Fahy         Summer 2013           seek donations for trial project on site from three         Paul Doherty, Sam Fahy         Summer 2013           Sate trial bins on site and placed in appropriate         Estates, Paul Doherty, Sam Fahy         Sep-13           Sott 4 <sup>th</sup> year project (Environmental Science and tealth Programme) descriptor for analysis of bins on         Anne Morrissey, Sam Fahy         Sep-13           Literature Review         Aolfe Fallon, Anne Morrissey, Sam Fahy         Oct 2013.Jan 201           Circulate literature review to participating companies         Sam Fahy         Jan-14           Survey all staff & Students on Bins         Aolfe Fallon, Anne Morrissey, Sam Fahy         Apr-14           Analysis survey results         Aolfe Fallon, Anne Morrissey, Sam Fahy         Apr-14           Analysis survey results         Aolfe Fallon, Anne Morrissey, Sam Fahy         Apr-14           Analysis survey results         Aolfe Fallon, States Office         Apr-14           Analysis survey results         Aolfe Fallon, States Office         Apr-14           Analysis survey results         Aolfe Fallon, Estates Office         Apr-14           Analysis survey results         Aolfe Fallon, States Office         Apr-14           Soal 6	
dentify potential external bin suppliers     Paul Doherty, Sam Fahy     Summer 2013       eek donations for trial project on site from three paul Doherty, Sam Fahy     Summer 2013       paul babe firms (local if possible)     Summer 2013       istable firms (local if possible)     Estates, Paul Doherty, Sam Fahy     Sep-13       orsat 4 <sup>th</sup> year project (Environmental Science and leath Programme) descriptor for analysis of bins on     Anne Morrissey, Sam Fahy     Oct 2013-Jan 201       ittrature Review     Aolife Fallon, Anne Morrissey, Sam Fahy     Oct 2013-Jan 201       ittrature Review     Aolife Fallon, Anne Morrissey, Sam Fahy     Apr-14       inalysis survey results     Aolife Fallon, Anne Morrissey, Sam Fahy     Apr-14       inalysis survey results     Aolife Fallon, Anne Morrissey, Sam Fahy     Apr-14       inalysis survey results     Aolife Fallon, States Office     Apr-14       inalysis of the fallon and Morrissey, Sam Fahy     Apr-14     Apr-14       inalysis of the fallon and Morrissey, Sam Fahy     Apr-14     Apr-14       inalysis of the fallon and Morrissey, Sam Fahy     Apr-14     Apr-14       inalysis of the fallon and Morrissey, Sam Fahy     Apr-14     Apr-14       inalysis of the fallon and fall	Status
eek donations for trial project on site from three vitable firms (local if possible)     Paul Doherty, Sam Fahy     Summer 2013       est trial bins on site and placed in appropriate crations     Estates, Paul Doherty, Sam Fahy     Sep-13       Year A <sup>th</sup> year project (Environmental Science and health Programme) descriptor for analysis of bins on terature Review     Anife Fallon, Anne Morrissey, Sam Fahy     Oct 2013-Jan 201       Jirculate literature Review     Aoife Fallon, Anne Morrissey, Sam Fahy     Oct 2013-Jan 201       Jirculate literature review to participating companies     Sam Fahy     Apr-14       Vanaysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Nahysis sourvey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Nahysis sourvey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Nahysis sourvey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Nahysis sourvey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Nahysis sourvey results     Aoife Fallon, Responsible     Time frame       Soal 6 : Community WEEE Recycling     Eimear     Doonghue, Kathleen     Feb-14       Welean     Eimear Doonghue, Mariane Galpo, Saorla Kelly Kavani     Mar-14       ugervise and record donations     Green Team     Mar-14       Green Team     Mar-14     Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Hea	Completed
Set trial bins on site and placed in appropriate factors.       Estates, Paul Doherty, Sam Fahy       Sep-13         Yost 4 <sup>th</sup> year project (Environmental Science and leath Programme) descriptor for analysis of bins on iterature review       Anine Morrissey, Sam Fahy       Sep-13         Aine eth Programme) descriptor for analysis of bins on iterature review to participating companies       Sam Fahy       QCt 2013-Jan 201         Surget and the ether the ether environment of the ether environment ether ether environment ether ether environment ether e	Completed
cocations     Estates, Paul Donerty, Sam Pany     Sep-13       vost 4 <sup>th</sup> year project (Environmental Science and lealth Programme) descriptor for analysis of bins on     Anne Morrissey, Sam Fahy     Sep-13       itterature Review     Aoife Fallon, Anne Morrissey, Sam Fahy     Oct 2013-jan 201       Circulate literature review to participating companies     Sam Fahy     Jan-14       Auroya ji staff & Students on Bins     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Nanalysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Nanalysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Nanalysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Nanalysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Nanalysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Nanalysis survey results     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Report on efficacy of segregated bins     Aoife Fallon, Anne Morrissey, Sam Fahy     Apr-14       Scal 6 : Community WEEE Recycling     Eimear     Donoghue/Kathleen     Feb-14       Wareness campaign for competition     Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavana     Mar-14       ieek Sponsorship     Eimear Donghue, Kathleen     Mar-14       ieet for future Green Days     Green Team     Mar-14	
Post 4 <sup>th</sup> year project (Environmental Science and Health Programme) descriptor for analysis of bins on     Anne Morrissey, Sam Fahy     Sep-13       Literature Review     Aolfe Fallon, Anne Morrissey, Sam Fahy     Oct 2013-Jan 201       Circulate literature review to participating companies     Sam Fahy     Jan-14       Survey all staff & Students on Bins     Aolfe Fallon, Anne Morrissey, Sam Fahy     Apr-14       Analysis contents of bins     Aolfe Fallon, Anne Morrissey, Sam Fahy     Apr-14       Analysis contents of bins     Aolfe Fallon, Anne Morrissey, Sam Fahy     Apr-14       Analysis contents of bins     Aolfe Fallon, Anne Morrissey, Sam Fahy     Apr-14       Soal 6 : Community WEEE Recycling     Aolfe Fallon     May-14       State     Person/Group Responsible     Time Frame       Agree process with Estates/WEEE     Donoghue/Kathleen     Mar-14       Whelan     War-14     War-14     Mar-14       Soal 7 : Pack it up and pass it on in conjunction with DCU in the Community     Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff     May-14       Cod of Semester campaign to recycle material by bassing it on to a charity     DCU in the Community, Saorla Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff     May-14       Cod Semester campaign to recycle material by bassing it on to a charity	Completed
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Avirey all staff & Students on Bins Avife Fallon, Anne Morrissey, Sam Fahy Apr-14 Analysis survey results Avife Fallon, Anne Morrissey, Sam Fahy Apr-14 Analysis contents of bins Avife Fallon, Anne Morrissey, Sam Fahy Apr-14 Analysis contents of bins Avife Fallon, Estates Office Apr-14 Avie Fallon May-14 Boal 6 : Community WEEE Recycling Action Person/Group Responsible Time Frame Elimear Donoghue/Kathleen Feb-14 Whelan Feb-14 Whelan Feb-14 Whelan Mar-14 Eimear Donoghue/Kathleen Mar-14 Eimear Donoghue Mariane Galpo, Saorla Kelly Kavana Mar-14 Eimear Donoghue Mar-14 Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey, Dave Whittle, Ying Fan, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff Pack it up and pass it on a charity DCU in the Community. Saorla Kelly May-15 COU Sustainable Christmas Fair with swap shop DCU Sust Liv Soc/DCU Green Comm Dec-17 Soal 8 : Litter surveys	Completed
Analysis survey results       Aoife Fallon, Anne Morrissey, Sam Fahy       Apr-14         Analysis contents of bins       Aoife Fallon, Estates Office       Apr-14         Report on efficacy of segregated bins       Aoife Fallon, Estates Office       Apr-14         Soal 6 : Community WEEE Recycling       Imme Frame       Imme Frame         Station       Person/Group Responsible       Time Frame         Awareness campaign for competition       Eimear       Donoghue/Kathleen       Feb-14         Awareness campaign for competition       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavana       Mar-14         Seek Sponsorship       Eimear Donoghue       Mar-14         Supervise and record donations       Green Team       Mar-14         Soal 7 : Pack it up and pass it on in conjunction with DCU in the Community       Xavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey       May-14         End of Semester campaign to recycle material by Dassing it on to a charity       DCU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who boassing it on to a charity       May-15         Pack it up and pass it on       DCU GC and DCU in the Community       2016/2017         DCU Sust Liv Soc/DCU Green Comm       Dec-17         Soal 8 : Litter surveys       DCU Sust Liv Soc/DCU Green Comm       Dec-17	
Analysis contents of bins       Aoife Fallon, Estates Office       Apr-14         Report on efficacy of segregated bins       Aoife Fallon       May-14         Goal 6 : Community WEEE Recycling       May-14         Action       Person/Group Responsible       Time Frame         Agree process with Estates/WEEE       Donoghue/Kathleen       Feb-14         Awareness campaign for competition       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavane       Mar-14         Supervise and record donations       Green Team       Mar-14         Soal 7 : Pack It up and pass it on in conjunction with DCU in the Community       Mar-14         Soal 7 : Pack It up and pass it on icconjunction with DCU in the Community       Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey       May-14         End of Semester campaign to recycle material by DCU in the Community, Saorla Kavanagh, Pat Hong, Lerna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         Pack it up and pass it on       DCU GC and DCU in the Community       2016/2017         Cu Sustainable Christmas Fair with swap shop       DCU Sust Liv Soc/DCU Green Comm       Dec-17         Goal 8 : Litter surveys       Eimear Soc/DCU Green Comm       Dec-17	Completed Completed
Report on efficacy of segregated bins       Aoife Fallon       May-14         Soal 6 : Community WEEE Recycling       Time Frame         Action       Person/Group Responsible       Time Frame         Sagree process with Estates/WEEE       Donoghue/Kathleen       Feb-14         Awareness campaign for competition       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavana       Mar-14         Supervise and record donations       Green Team       Mar-14         Scoal 7 : Pack it up and pass it on in conjunction with DCU in the Community       Mar-14         Scoal 7 : Pack it up and pass it on recycle material by       Filmear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey       May-14         Scoal 7 : Semester campaign to recycle material by       DCU in the Community, Saorla Kavanagh, Pat Hong, Lerna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         Cui on the a charity       DCU GC and DCU in the Community       2016/2017         Pack it up and pass it on       DCU Sust Liv Soc/DCU Green Comm       Dec-17         Scoal 8 : Litter surveys       DCU Sust Liv Soc/DCU Green Comm       Dec-17	Completed
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Action         Person/Group Responsible         Time Frame           Agree process with Estates/WEEE         Donghue/Kathleen         Feb-14           Awareness campaign for competition         Eimear Donghue, Mariane Galpo, Saorla Kelly Kavana         Mar-14           Seek Sponsorship         Eimear Donghue, Mariane Galpo, Saorla Kelly Kavana         Mar-14           Supervise and record donations         Green Team         Mar-14           Repeat for future Green Days         Green Team         Mar-14           Goal 7 : Pack it up and pass it on in conjunction with DCU in the Community         Mar-14           Action         Person/Group Responsible         Time Frame           End of Semester campaign to recycle material by Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ving Fan, Le Min Chan, Heather Rainey         May-14           End of Semester campaign to recycle material by Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ving Fan, Le Min Chan, Heather Rainey         May-14           End of Semester campaign to recycle material by CU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff         May-15           Pack it up and pass it on         DCU GC and DCU in the Community         2016/2017           Pack it up and pass it on         DCU Sust Liv Soc/DCU Green Comm         Dec-17           GOU Susta	
Agree process with Estates/WEEE       Eimear Donoghue/Kathleen Whelan       Feb-14         Awareness campaign for competition       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavana       Mar-14         Seek Sponsorship       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavana       Mar-14         Supervise and record donations       Green Team       Mar-14         Repeat for future Green Days       Green Team       Mar-14         Goal 7 : Pack it up and pass it on in conjunction with DCU in the Community       Mar-14         Action       Person/Group Responsible       Time Frame         End of Semester campaign to recycle material by passing it on to a charity       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey       May-14         End of Semester campaign to recycle material by passing it on to a charity       DCU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         OPack it up and pass it on       DCU GC and DCU in the Community       2016/2017         DCU Sust Liv Soc/DCU Green Comm       Dec-17         Goal 8 : Litter surveys       DCU Sust Liv Soc/DCU Green Comm       Dec-17	
Agree process with Estates/WEEE     Donghue/Kathleen Whelan     Feb-14       Awareness campaign for competition     Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavana     Mar-14       Greek Sponsorship     Eimear Donoghue     Mar-14       Supervise and record donations     Green Team     Mar-14       Repeat for future Green Days     Green Team     Mar-14       Soal 7 : Pack it up and pass it on in conjunction with DCU in the Community     Mar-14       Action     Person/Group Responsible     Time Frame       Eind of Semester campaign to recycle material by passing it on to a charity     Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey     May-14       Eind of Semester campaign to recycle material by passing it on to a charity     DCU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff     May-15       Pack it up and pass it on     DCU GC and DCU in the Community     2016/2017       Cuc Sustainable Christmas Fair with swap shop     DCU Sust Liv Soc/DCU Green Comm     Dec-17	Status
Seek Sponsorship       Eimear Donoghue       Mar-14         Supervise and record donations       Green Team       Mar-14         Repeat for future Green Days       Green Team       Mar-14         Goal 7 : Pack it up and pass it on in conjunction with DCU in the Community       Mar-14         Action       Person/Group Responsible       Time Frame         End of Semester campaign to recycle material by       Eimear Donoghue, Mariane Galpo, Saorla Kelly       May-14         passing it on to a charity       Drug Fan, Le Min Chan, Heather Rainey       May-14         End of Semester campaign to recycle material by       DCU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         eack it up and pass it on       DCU GC and DCU in the Community       2016/2017         DCU Sustainable Christmas Fair with swap shop       DCU Sust Liv Soc/DCU Green Comm       Dec-17	Completed
Supervise and record donations       Green Team       Mar-14         Repeat for future Green Days       Green Team       Mar-14         Goal 7 : Pack it up and pass it on in conjunction with DCU in the Community       Mar-14         Action       Person/Group Responsible       Time Frame         End of Semester campaign to recycle material by cassing it on to a charity       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey       May-14         End of Semester campaign to recycle material by cassing it on to a charity       DCU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         Pack it up and pass it on       DCU GC and DCU in the Community       2016/2017         OCU Sustainable Christmas Fair with swap shop       DCU Sust Liv Soc/DCU Green Comm       Dec-17	Completed
Repeat for future Green Days       Green Team       Mar-14         Goal 7 : Pack it up and pass it on in conjunction with DCU in the Community       Person/Group Responsible       Time Frame         Action       Person/Group Responsible       Time Frame         End of Semester campaign to recycle material by cassing it on to a charity       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey       May-14         End of Semester campaign to recycle material by cassing it on to a charity       DCU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         Pack it up and pass it on       DCU GC and DCU in the Community       2016/2017         DCU Sustainable Christmas Fair with swap shop       DCU Sust Liv Soc/DCU Green Comm       Dec-17	Completed
Goal 7 : Pack it up and pass it on in conjunction with DCU in the Community         Action       Person/Group Responsible       Time Frame         End of Semester campaign to recycle material by cassing it on to a charity       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey       May-14         End of Semester campaign to recycle material by cassing it on to a charity       DCU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         Pack it up and pass it on       DCU GC and DCU in the Community       2016/2017         DCU Sustainable Christmas Fair with swap shop       DCU Sust Liv Soc/DCU Green Comm       Dec-17	Completed
Action       Person/Group Responsible       Time Frame         End of Semester campaign to recycle material by bassing it on to a charity       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey       May-14         End of Semester campaign to recycle material by bassing it on to a charity       DCU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         Pack it up and pass it on       DCU Sust Liv Soc/DCU Green Comm       Dcu Sust Liv Soc/DCU Green Comm       Dcu-17         Goal 8 : Litter surveys       DCU Sust Liv Soc/DCU Green Comm       Dcu-17	Ongoing
Action       Person/Group Responsible       Time Frame         End of Semester campaign to recycle material by bassing it on to a charity       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey       May-14         End of Semester campaign to recycle material by bassing it on to a charity       DCU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         Pack it up and pass it on       DCU Sust Liv Soc/DCU Green Comm       Dcu Sust Liv Soc/DCU Green Comm       Dcu-17         Goal 8 : Litter surveys       DCU Sust Liv Soc/DCU Green Comm       Dcu-17	
Eind of Semester campaign to recycle material by passing it on to a charity       Eimear Donoghue, Mariane Galpo, Saorla Kelly Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey       May-14         Eind of Semester campaign to recycle material by passing it on to a charity       DCU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         Pack it up and pass it on       DCU GC and DCU in the Community       2016/2017         DCU Sustainable Christmas Fair with swap shop       DCU Sust Liv Soc/DCU Green Comm       Dec-17	
Ind of Semester campaign to recycle material by bassing it on to a charity       Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle, Ying Fan, Le Min Chan, Heather Rainey       May-14         Sind of Semester campaign to recycle material by bassing it on to a charity       DCU in the Community, Saorla Kavanagh, Pat Hong, Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         Pack it up and pass it on       DCU GC and DCU in the Community       2016/2017         DCU Sustainable Christmas Fair with swap shop       DCU Sust Liv Soc/DCU Green Comm       Dec-17	
End of Semester campaign to recycle material by Le Min Chan, Sam Fahy et lots of other al who donated 21 bags of stuff       May-15         Deack it up and pass it on       DCU GC and DCU in the Community       2016/2017         DCU Sustainable Christmas Fair with swap shop       DCU Sust Liv Soc/DCU Green Comm       Dec-17	Status
DCU Sustainable Christmas Fair with swap shop       DCU Sust Liv Soc/DCU Green Comm       Dec-17         Goal 8 : Litter surveys	Status Completed
Goal 8 : Litter surveys	
	Completed
Action Person/Group Resonnsible Time Frame	Completed
reisony droup hesponsible	Completed Completed Completed
Main Mall         Saorla Kavanagh         2014/2015	Completed Completed Completed
Campus wide Green Committee 2014/2015	Completed Completed Completed Planned Status Completed
Main Mall Saorla Kavanagh 2015/2016	Completed Completed Completed Planned Status Completed Completed
Campus wide         Green Committee         2015/2016           All Campuses         Green committee (WG3)         2017/2018	Completed Completed Completed Planned Status Completed Completed Completed
Green committee (WGS) 2017/2018	Completed Completed Completed Planned V Status Completed Completed Completed Completed
Action Person/Group Responsible Time Frame	Completed Completed Completed Planned Status Completed Completed Completed
Gather data on waste bin collection         Waste working group incl all uni stakeholders         Sep-14	Completed Completed Completed Planned V Status Completed Completed Completed Completed
dentify major producers Waste working group incl all uni stakeholders Q4 14	Completed Completed Completed Planned Status Completed Completed Completed Completed Completed Completed

Consistant signage across entire campus	Waste working group incl all uni stakeholders	2015	Completed
Appropiate bin across campus	Waste working group incl all uni stakeholders	2015	Completed
Analysis of DCU food waste and assessment as a			·
potential resource	Anraoi Rooney, A Morrissey, S. Fahy	2017/2018	Ongoing
Goal 10 : Pack it up and pass - Version 2			-
Action	Person/Group Responsible	Time Frame	Status
End of Semester campaign to recycle material by	Eimear Donoghue, Mariane Galpo, Saorla Kelly	NA 1.4	Completed
passing it on to a charity	Kavanagh, Pat Hong, Lorna Finnegan, Dave Whittle,	May-14	Completed
End of Semester campaign to recycle material by	DCU in the Community, Saorla Kavanagh, Pat Hong,	May-15	Completed
passing it on to a charity	Le Min Chan, Sam Fahy et lots of other al who	Iviay-15	completed
End of Semester campaign to recycle material by	DCU in the Community, Saorla Kavanagh, Pat Hong,	Jun-15	Completed
passing it on to a charity	Le Min Chan, Sam Fahy et lots of other al who	3411 13	compieted
Goal 11 : Promote WEEE	Demony (Crease Demonstikle	<b>T</b> <sup>1</sup> <b>F</b>	<b>C</b> (1)
Action	Person/Group Responsible	Time Frame	Status
Agree regular WEEE collections	Kathleen Whelan Kathleen Whelan	2015/2016	Completed
Promote to all staff and students and units		2015/2016	Completed
RePak Award application (shortlisted)	Kathleen Whelan, S Fahy	2016/2017	Short listed but didn't win
Promote to all staff and students and units	Kathleen Whelan	2016/2017	Ongoing
Goal 12 : Promote Recycling			
Action	Person/Group Responsible	Time Frame	Status
Promote recyclying	Kathleen Whelan/Sust/EcoSoc	2015/2016	Completed
Laboratory glass recycling	Kathleen Whelan/tech labs	2015/2016	Ongoing
Increase Clean dry recycling bins	Kathleen Whelan	2015/2016	Ongoing
Goal 13 : Paper consumtpion on campus			
Action	Person/Group Responsible	Time Frame	Status
Review paper consumtion in academic institutions	Bernadette Leng Ian Lo/Sam Fahy	Q4 2015	Completed
Quatify paper consumtpion on campus via student 'papercut' account data	Bernadette Leng Ian Lo/Sam Fahy	Q1 2016	Completed
Breakdown info across programmes	Bernadette Leng Ian Lo/Sam Fahy	Q1 2016	Completed
Survey	Bernadette Leng Ian Lo/Sam Fahy	Q1 2016	Completed
Analysis	Bernadette Leng Ian Lo/Sam Fahy	Q1 2016	Completed
Recommendations	Bernadette Leng Ian Lo/Sam Fahy	Q1 2016	Completed
Paper waste on SPC	SPC WG	2016/2017	Completed
Reuse of paper waste on SPC	Arts at SPC	2016/2017	ongoing
Goal 14: Carbon Neurtal Campus			
Action	Person/Group Responsible	Time Frame	Status
Assess Carbon footprint of Waste	Sean Walpole/S Fahy/Estates	Q2/3 2016	Ongoing
Identify strategy and pathway to Carbon neutral	DCU Estates/Sustainaiblity	2016/2017	Ongoing
Implement strategy	DCU Estates/Sustainaiblity	2016/2017	Ongoing
Goal 15: Waste WG	· · · · · · · · · · · · · · · · · · ·		
Action	Person/Group Responsible	Time Frame	Status
Establish WG	S Fahy/ Green Comm	Q4 2017	underway
Identify coordinator	WG	Q4 2017	underway

Biodiversity Action Plan			
Goal 1 : Community Garden and Vegetable Plo		<b>-</b>	
Action Launch of Community Garden by DCU President Prof Brian MacCraith	Person/Group Responsible Sam Fahy, Hilary Murphy, Eoin Campbell /Green Committee	Time Frame Mar-12	Status Completed
LA21 Application for access	Sam Fahy	Spring 2012	Completed (successful)
Clearing & making Site safe	Sam Fahy/Hilary Murphy	Jun-12	Completed
Establish Community Garden Development	Sam Fahy	Mar-13	Completed
Committee (CGDC) Establish development plan	Sam Fahy/CGDC	Spring/Summer 2013	Completed
LA 21 application for disability access raised bed	Sam Fahy/Saorla Kelly Kavanagh	Nov-13	Completed (successful)
Development of Community garden safety statement	Sam Fahy/Eileen Tully (DCU Safety Officer)	Mar-14	Completed
Sources materials for raided bed	Bio Group	Mar-14	Ongoing
Refurbishment of polytunnel	Sam Fahy/BWP	Mar-14	Ongoing
Engagement with CE Scheme	Sam Fahy/BWRights	Q4 14	compelted
Development Plan revised	Sam Fahy, Saorla Kavanagh, Brendan Heery	Q1 15	Completed
Membership form	Sam Fahy, Saorla Kavanagh, Brendan Heery	Q1 15	Completed
Working model developed	Sam Fahy, Saorla Kavanagh, Brendan Heery	Q1 15	Completed
Planting and harvesting	Andrew Jordan et al	Q1 15	Completed
Engagement with Tolka Area Partnership	Sam Fahy et al	2014/2015	Ongoing
Food availabe for donation	All	2014/2015	Ongoing
Goal 2 : Community engagement	l		I
Action	Person/Group Responsible	Time Frame	Status
Engage with GAP & other local community groups	Joanne Ozarowska, Myrian Castanie, Sam Fahy, Hilary Murphy	Mar-12	Completed/Ongoing
Supervised engagement with St. Aidans Secondary School	Sam Fahy/Saorla Kelly Kavanagh/Patrick Traynor (St. Aidans)	Oct-13	Ongoing
Engagement with Ballymun Whitehall Tus horticulture programme	Sam Fahy/Saorla Kelly Kavanagh/BW Partnership	Feb-14	Ongoing
Support 'Age Friendly University' Initiative – promote to Senior citizen buying paper in SPAR/Interfaith!	Sam Fahy/Green Committee	Mar-12	Completed/Ongoing
Goal 3 : Integrated with core activities	Devron (Crown Desmonsible	Time Frome	Status
Action Teagasc students pruning practice (2012/2013	Person/Group Responsible	Time Frame	Status
class)	Saorla Kelly Kavanagh/Teagasc/Deg in Hort at DCU	Spring 2012	Completed
Horticulture Student projects	Saorla Kelly Kavanagh/Micheal Parkinson	Oct-13	Ongoing
Teagasc students pruning practice (2013/2014 class)	Saorla Kelly Kavanagh/Teagasc/Deg in Hort at DCU	Spring 2012	Ongoing
Submission of SEAI Better energy communities application - Funded in 2014 but DCU was unable to take up the award due to tirming constrainst of the grant and public procurement rules	Sam Fahy/Estates/Green Way	Apr-14	Completed
Quantative Biodiveristy Project	Joe Cornish/Sam Fahy/Anne Morrissey	2014/2015	Ongoing
4th year project on sustainability of CG	Alan Rigney/Sam Fahy/Anne Morrissey	2014/2015	Completed
Submission of SEAI Better energy communities application	Sam Fahy/Estates/Green Way	Apr-15	Unsucessful
Goal 4 : 'A plant for U at DCU'			1
Action	Person/Group Responsible Saorla Kelly Kavanagh	Time Frame	Status
Project on rockery beside spar shop DCU Suppliers donated trees for planting at DCU	Saoria Kelly Kavanagh	May-13 May-13	Completed Completed
Goal 5 : Programme to increase Native Irish tr			
Action	Person/Group Responsible	Time Frame	Status
Awareness campaign	Niamh O'Dowd, Saorla Kavanagh / Green Committee	Oct-13	Ongoing
National Tree Week 2013	Saorla Kelly Kavanagh /Green Committee	Mar-13	Completed
One million trees in one day National Tree Week/International Women's	Saorla Kelly Kavanagh /DCU Community	Mar-13	Completed
Day	Saorla Kelly Kavanagh /Green Committee	Mar-14	Completed
One million trees in one day	Saorla Kelly Kavanagh /DCU Community	Mar-14	Completed
One million trees in one day	Mariane Galop/ Saorla Kavanagh	Mar-15	Completed
Goal 6 : Biodiversity on Campus	l		
Action	Person/Group Responsible	Time Frame	Status
Submit project descriptor to Intra placement for Environmental Science and Health Course - focus on Biodiversity for	Sam Fahy/Saorla Kelly Kavanagh	Oct-13	Completed
Manage and monitor placement	Sam Fahy/Saorla Kelly Kavanagh/ Richard Cole (Intra Student	Apr-14	Completed
	Green Team + experts !	May-14	Completed
Participate in Intervarsity Bioblitz	Croop Team + events	Sep-15	unabe to compete
Bioblitz 2015	Green Team + experts !	· · ·	
Bioblitz 2015 Quantaitve biodiverstiy project	Joe Cornish/Sam Fahy/ Anne Morrissey	Sep-15	Completed
Bioblitz 2015 Quantaitve biodiverstiy project Bioblitz 2016	loe Cornish/Sam Fahy/ Anne Morrissey Sam Fahy/Jason McGuire/Marty Mathwes	· · ·	Completed Hopefully !!
Bioblitz 2015 Quantaitve biodiverstiy project	loe Cornish/Sam Fahy/ Anne Morrissey Sam Fahy/Jason McGuire/Marty Mathwes	Sep-15	

Pofurbich windows with non-aloss alternative	Sam Fahy Androw Jordan Brondan Hossi & Caro & Donair Toara	04.14	Completed
Refurbish windows with non glass alternative		Q4 14	Completed
Alternative/Renewable energy	Sam Fahy, Andrew Jordan, Brendan Heery, Stephen Daniels, Susmitha et al	2014/2015	Ongoing
RWH Treatment			
Goal 8 : Mens Shed			
Action	Person/Group Responsible	Time Frame	Status
Establish Mens Shed	Green Committee	2015/2016	Ongoing
Open discussion with Ballymun Mens Shed			
Association	S Fahy	Feb-16	Ongoing
Research on Impact of Mens Sheds in Ireland	S Fahy/P Murphy/B Sheridan	Jun-16	Ongoing
Goal 9 : CSR Volunteers Action	Person/Group Responsible	Time Frame	Status
		Time Frame	Sidius
Run CSR days in conjunction with An Tasice Green Communities	Sam Fahy, Andrew Jordan, An Taisce Green Communities	2015/2016	Ongoing
Deloitte CSR day (x 2)	Sam Fahy, Andrew Jordan, An Taisce Green Communities	2015/2016	completed
M& S CSR Day	Sam Fahy, Andrew Jordan, An Taisce Green Communities	2015/2016	completed
Aol CSR Day	Sam Fahy, Andrew Jordan, An Taisce Green Communities	13 May 206	completed
ADI CSR Day	Sam Pany, Andrew Jordan, An Taisce Green Communities	13 Way 200	completed
Goal 10 : Refurbishment of the DCU Commu	nity Garden		
Action	Person/Group Responsible	Time Frame	Status
Assess viability of sheds on site	DCU Estates	Q2 2016	Ongoing
Get costing for power/water and waste	DCU Estates		
reconnections		Q2 2016	completed
Ballymun MSA workshop - in Shed 2	Sam fahy	Q2 2016	completed
Goal 11 : Grow Dome in DCU Community Ga			
Action	Person/Group Responsible	Time Frame	Status
Agree location with Grow Dome (social enterprise)	S Fahy	Q1 2016	completed
install foundations	S fahy with volentary help for contractors in field next door !!!!	Q1 2016	completed
Build grow dome	Grow Dome	Q2/Q3 2016	ongoing
Goal 12 : Community Employment Scheme s	upport in DCU Community Garden		
Action	Person/Group Responsible	Time Frame	Status
Identify placement 1	S Fahy	Q1 2016	completed
Identify placement 2	S Fahy	Q2 2016	completed
Identify placemnt 3	S Fahy	Q2/Q3 2016	ongoing
Garden Stall	Martin/Jason	Q2/Q3 2017	compelted
Goal 13: Carbon Neurtal Campus			
Action	Person/Group Responsible	Time Frame	Status
Assess Carbon footprint of Biodiverity on	Sean Walpole/S Fahy	Q2/3 2016	Ongoing
campus - sink or source !		42/5 2010	01150115
Identify strategy and pathway to Carbon	DCU Estates/Sustainaiblity	2016/2017	Ongoing
neutral		2010/2017	0
Implement strategy Goal 14: Pollinator Plan	DCU Estates/Sustainaiblity	2016/2017	Ongoing
	Person/Group Responsible	Time Course	Chatura
Action		Time Frame	Status
Development of a Polinartor plan	Saorla Kavanagh Bio Committee	2017/2018	ongoing
Identification of 'specific space'	DCU	Q4 2017 Q4 2017/Q1 2018	completed
signage Goal 15: Biodiversity/St. Patricks NS		Q4 2017/Q1 2018	planned
	Porron/Group Pornoncible	Timo Fromo	Status
Action Campus wide biodiversity plan	Person/Group Responsible	Time Frame	Status
	Biodiversity WG (TMcC, SP, SF)	2017/2018	Ongoing
		Oct-17	Done
Agreed spaces	DCU Snr Man		
Agreed spaces	Biodiversity WG (TMcC, SP, SF)	Q4 2017/Q1 2018	Ongoing
Agreed spaces Signage	Biodiversity WG (TMcC, SP, SF)		Ongoing
Agreed spaces Signage Goal 16: Biodiversity/Drumcondra Tidy Town	Biodiversity WG (TMcC, SP, SF) s/Phibs Tidy Towns	Q4 2017/Q1 2018	
Agreed spaces Signage Goal 16: Biodiversity/Drumcondra Tidy Town Action	Biodiversity WG (TMcC, SP, SF) s/Phibs Tidy Towns Person/Group Responsible	Q4 2017/Q1 2018 Time Frame	Status
Agreed spaces Signage Goal 16: Biodiversity/Drumcondra Tidy Town Action Assign Budget	Biodiversity WG (TMcC, SP, SF)  s/Phibs Tidy Towns  Person/Group Responsible  SF/Oliver Dooney	Q4 2017/Q1 2018 Time Frame Jun-17	Status done
Agreed spaces Signage	Biodiversity WG (TMcC, SP, SF) s/Phibs Tidy Towns Person/Group Responsible	Q4 2017/Q1 2018 Time Frame	Status

xxxxxxx xxxxxxx

Parson/Group Posponsible	Timo Eramo	Status
sam Fany/Transport Team	000-13	Completed
Sam Fahy/Transport Team	Oct-13	Completed
Sam Fahy/STC	Apr-14	Completed
-	Q3 2014	Completed
Sam Fahy/STC	Q3 2015	Completed
Sam Fahy/STC	2016/2016	Completed
Sam Fahy/STC	Q4 2015	Still Ongoing!
Person/Group Responsible	Time Frame	Status
DCUSU/Green Comm	Mar-14	Completed
Transport Team	Apr-14	Completed
All Green Committee !!	Apr-14	Completed
Sam Fahy/Rediscovery Centre	Oct-13	Completed
Sam Fahy/Rediscovery Centre/SU	2015/2016	Completed
Sam Fahy/Rediscovery Centre/SU	2016/2017	hopefully - funding dependant
Person/Group Responsible	Time Frame	Status
Sam Fahy/Transport committee	Q3-2015	in use
All Green Committee !!	2015/2016	in disucssion with SU
1		
Person/Group Responsible	Time Frame	Status
		Achieved/ongoing
		under construction
All Green committee !!	2013/2010	
Daman (Crown Daman article	Time Comme	Chatur
Person/Group Responsible	Time Frame	Status
Sam Fahy/Transport committee	2016/2017	+ 5 add busses/ongoing
CU Sam Fahy/Transport committee	2016/2017	ongoing
Person/Group Responsible	Time Frame	Status
Sean Walpole/S Fahy	Q2/3 2016	Ongoing
Sean Walpole/S Fahy	Q2/3 2016	Ongoing
Sean Walpole/S Fahy	Q2/3 2016	Ongoing
		Ongoing
		Ongoing
Deo Estates/Sustainaisinty	2010/2017	Chigonia
Person/Group Responsible	Time Frame	Status
	Time Traine	Status
S Fahy/B McMullin	2016/2017	unsucessful
S Fahy/C O Duibhir	May-Aug 2017	draft remote participation report
S Fahy	2017/2018	ongoing
Devroen /Crown Desmonsible	Time Frame	Cheture
Y. McGowan/R. Munnelly/M. Philpin/		Status completed
		in plan
	. ,	P. CON
Person/Group Responsible	Time Frame	Status
		Bikes on campuses
	Seh-18	report to NTA/DCU
-	•	<u> </u>
Person/Group Responsible	Time Frame	Status
Person/Group Responsible	Time Frame	Status 4 presentions
Person/Group Responsible S Fahy	Time Frame 2016/2018	Status 4 presentions compelted more to come !
	Sam Fahy/STC Sam Fahy/STC Sam Fahy/STC Sam Fahy/STC Sam Fahy/STC Sam Fahy/STC Sam Fahy/STC DCUSU/Green Comm Transport Team All Green Committee !! Sam Fahy/Rediscovery Centre/SU Sam Fahy/Rediscovery Centre/SU Sam Fahy/Rediscovery Centre/SU Sam Fahy/Rediscovery Centre/SU Sam Fahy/Rediscovery Centre/SU Sam Fahy/Rediscovery Centre/SU Sam Fahy/Rediscovery Centre/SU Person/Group Responsible Sam Fahy/Transport committee All Green Committee !! Person/Group Responsible Sam Fahy/Transport committee All Green Committee !! Person/Group Responsible Sam Fahy/Transport committee Sam Fahy/Transport commit	Sam Fahy/Transport TeamOct-13Sam Fahy/STCApr-14Sam Fahy/STCQ3 2014Sam Fahy/STCQ3 2015Sam Fahy/STCQ3 2015Sam Fahy/STCQ3 2015Sam Fahy/STCQ0 2015Sam Fahy/STCQ4 2015Person/Group ResponsibleTime FrameDCUSU/Green CommMar-14Transport TeamApr-14All Green Committee !!Apr-14Sam Fahy/Rediscovery Centre/SU2015/2016Sam Fahy/Rediscovery Centre/SU2016/2017Person/Group ResponsibleTime FrameSam Fahy/Rediscovery Centre/SUSam Fahy/Rediscovery Centre/SU2015/2016Sam Fahy/Transport committeeQ3-2015All Green Committee !!2015/2016Person/Group ResponsibleTime FrameSam Fahy/Transport committeeSam Fahy/Transport committee2015/2016Person/Group ResponsibleTime FrameSam Fahy/Transport committeeSam Fahy/Transport committee2016/2017CUPerson/Group ResponsibleTime FrameSam Fahy/Transport committeeSam Fahy/Transport committee2016/2017CUSam Fahy/Transport committee2016/2017CUSam Fahy/Transport committee2016/2017DCU Estates/Sustainaibility2016/2017DCU Estates/Sustainaibility2016/2017DCU Estates/Sustainaibility2016/2017 <t< td=""></t<>

Action	Person/Group Responsible	Time Frame	Status
Identification of optimal walk/cycle route between DCU campuses	Sust DCU/DCU SU/all	2016/2017	Preliminary report submitted
Stakeholder engagement	Sust DCU/DCU SU/all	2016/2017	ongoing
Goal 12: Secure Cycle parking Action	Person/Group Responsible	Time Frame	Status
Review of Best Practice on HEI;s in Ireland	Sust DCU/DCU SU/all	2016/2017	Preliminary report submitted
Sticker best secured bikes	Sust DCU/DCU SU/all	2017/2018	in plan

<b>Communications Action Plan</b>			
Goal 1 : Green Days			
Action	Person/Group Responsible	Time Frame	Status
Agree first set of dates	Sam Fahy/Green Committee	Oct-13	Completed
Agree focus + activities	Green Committee	Oct-13	Completed
Awareness campaigns on FB etc	Green Committee	Oct-13	Completed/Ongoing for future dates
Nrite report on compelted GD's	Nominated Green Committee member	Oct-13	Completed/Ongoing for future dates
Goal 2 : Sustainability/An Taisce Green Campus Information	· · · ·		1
	Person/Group Responsible	Time Frame	Status
Set agreement with Student Support and Development for	Sam Fahy/Paul Doherty	May-13	Completed
slot in Orientation week			
	Sam Fahy	Aug-13	Completed
	Sam Fahy	Sep-13	Completed
· · · · · · · · · · · · · · · · · · ·	Sam Fahy	Sep-14	Completed
	Sam Fahy	Sep-15	Completed
Report for next intake – Sept 2016	Sam Fahy	Sep-16	Ongoing
	Sam Fahy	01/09/2014/2015 & 2016	Ongoing
ioal 3 : Notice Board			
Action	Person/Group Responsible	Time Frame	Status
dentify process for gaining notice boards on campus	Saorla KK	Jan-14	Completed
	Sporta KK		Completed
Apply for Notice Board	Saorla KK	Feb-14	Completed
с., , ,	Green Comm	Apr-14	Ongoing
Goal 4 : Linked Events		Time Frome	Ctatus
Action dentify potential linked events to support Green	Person/Group Responsible	Time Frame	Status
Committee activities	Green Committee	Oct-13	ongoing
	GC/WI	Mar-15	completed
	All	May-15	completed
Goal 5: Facebook/Social Media	-		1
	Person/Group Responsible	Time Frame	Status
	Mariane /Saorla/Mark Foley	2014/2015	compelted
	Clionadh,/Ross/Mohammed	Mar-15	compelted
Set media students to design social media plan to promote	Green Comm	2015/2016	Ongoing
DCU Green Campus			
	Sam/Mariane/Saorla/Pat	2015/2016	Ongoing
Goal 5: Facebook/EcoSoc Group			
	Person/Group Responsible	Time Frame	Status
	Denah/All	2015/2016	Completed
	All	2015/2016	divested
	S Fahy	2016/2017	completed
Goal 6: DCU Fuse	D	<b>T</b> '	Chatara
Action	Person/Group Responsible	Time Frame	Status
the University and its future stragetic plans - there were several sessions focused on the sustainable activities of the insitution - over 20,000 conversations	B. McMullin, S Fahy and support team for moderation sessions	Mar-17	Completed - further analysis of inputs would be beneficial
Use of Fuse platform to enable communitation and engagement	DCU	Q3 2018	Planned
Goal 7: City Councillors/Drumcondra Tidy Towns/Phibs Tidy			
Action	Person/Group Responsible	Time Frame	Status
ngagement with Drum TT	S Fahy/O Dooley	2016/2017/2018	Budget approved and plan agreed
Engagement with Phibs TT, incl participation in open day	S Fahy	2016/2017/2018	ongoing
and information sessions			
Goal 8: Info walls			
Goal 8: Info walls Action	Person/Group Responsible	Time Frame	Status
Goal 8: Info walls Action nformation walls	S Fahy/R. Kelly	2017/2018	underway
Goal 8: Info walls Action Information walls Locations identified on all campuses	S Fahy/R. Kelly R. Kelly	2017/2018 Q2 2017	underway compelted
Goal 8: Info walls Action Information walls Occations identified on all campuses	S Fahy/R. Kelly	2017/2018	underway
Goal 8: Info walls Action nformation walls .ocations identified on all campuses nfographic design	S Fahy/R. Kelly R. Kelly	2017/2018 Q2 2017	underway compelted
nformation walls Locations identified on all campuses Infographic design Goal 9: Communications Working Group	S Fahy/R. Kelly R. Kelly	2017/2018 Q2 2017	underway compelted

Agree action plan	Comm WG	2017/2018	tbc





Assignment:	Paper Coffee Cups Campaign
	Business Report
Module	Sustainability DCU
	(Report as part of MT5113 Portfolio Activity)
Sustainability Manager	Ms. Samantha Fahy
Student Name/Number	Mariane Galpo: 16213269

# DCU University's Declaration on Plagiarism

Module Code:	MT5113 – Business and Society – Sustainability DCU
Assignment Title:	Paper Coffee Cups Campaign – Sustainability DCU

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Name: Mariane Galpo

Date: June 2017

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# Introduction

The aim of this report is to provide recommendations that could be considered to reduce the usage of paper coffee cups in the main restaurant of DCU.

To able to create approaches that could be beneficial on this case, it is necessary to start with the analysis of the product and the problem.

This report is especially dedicated to Sustainability DCU, to help achieve the initiatives of the college in terms of Sustainability issues.

# **Section 1: Literature Review**

Consumer consumption of goods and services has increased tremendously around the world causing depletion of natural resources and severe damage to the environment (Chen & Chai, 2010). Some examples of environmental damages are global warming, environmental pollution, and decline in flora and fauna (Chen & Chai, 2010). According to Lauren Hepler and Barbara Grady 2015 of GreenBiz Group, volatile environment affects not just the global population but also the global economy. But though the damages in the environment impacts the economy, the society still do not see any meaningful progress on sustainability issues because of the nexus between making money and degrading the environment (Hepler & Grady, 2015). This is supported by a statement declared by Richard Mattison, CEO of sustainability research firm Trucost, "If companies were to have to pay for the costs they created, it would actually wipe out profit" (Hepler & Grady, 2015).

Mattison also stated that, as a result of performing business operations, the relationship that occurs between corporate revenue and the environmental damage showing that sustainability initiatives could undercut financial self-interest (shown in figure 1) (Hepler & Grady, 2015). Increasing corporate environmental impacts reflects to the increase of the corporate revenues.

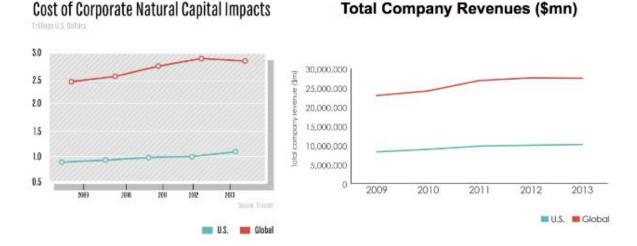


Figure 62 (Hepler & Grady, 2015)

## **Consumer buying behaviour**

"Buying behaviour is the decision processes and acts of people involved in buying and using products" (pp. 52) (Rani, 2014). Companies have the opportunity to develop a strategy by defining and understanding the factors that impacts their customers in terms of decision making process, shopping habits, purchasing behaviour, the brands he buys or the retailers he goes (Rani, 2014).

A consumer goes through a decision process that consists of 5 stages when purchasing any product (Rani, 2014):

Stage 1: Recognition of the problem,

Stage 2: Search of information,

Stage 3: Alternatives evaluation,

Stage 4: Purchase decision,

Stage 5: Post purchase behaviour.

Rani also suggested that there are four major factors that influences consumer's buying behaviour:

- Culture different countries have different cultures. This culture impacts the wants and the behaviour of a person. Marketers have to be careful in studying the culture of different groups, regions or even countries. Example of this is the West where it is very common to invite colleagues or friends at home for a drink or dinner. In comparison, Japan, it is preferable to invite friends in a restaurant.
- 2. Social There is a form called social hierarchy in a society where groups of people are ranked against each other. Individuals in the same social class usually have similar values, lifestyles, interests and behaviour. And depending on social class, buying behaviour of a consumer can also change. For example, if a person is coming from a lower class, he might be more focused on the price of the product. While people from upper class may be more attracted to quality, innovation, feature, or even the "social benefit" that they can gain from the product.
- 3. Personal Preferences of a consumer often changes as "situation changes", which depends on the personal variables such as age and lifecycle stage, occupation, economic circumstances, lifestyle (activities, interests, opinions and demographics), personality and self-concept. Example is a 25 year old consumer may prefer to have branded products than a 65 year old. Economic situation has greatest impact because if a customer's income and savings is high, they might prefer to buy expensive products. In contrast, customers with lower income and savings may prefer to buy inexpensive products.

Psychological – Purchase decision is also influenced by motivation, perception, learning, beliefs and attitudes. "Other people often influence a consumer's purchase decision" (pp. 58).

## **Disposable cups**

Disposable cups can be divided into three categories: paper, plastic, and foam. As the focus of this project is for paper-coffee cups, depending on the needs of the company, paper disposable cups can be made of (WebstaurantStore, 2003-2017) (healthydietbase, 2016):

- Air Pocket Insulated This cup is designed with air pocket insulation to keep hot beverages like coffee and tea warm without burning the consumer's hands. Therefore, this design eliminates the use of sleeves.
- Poly-Coated Paper cups The design have a single or double poly-coating which offers additional rigidity and insulation. The lining keeps the liquid inside cup to protect the cup from weakening or leaking due to condensation or sweating. They come in array of colours and sizes and can also be used by hot or cold beverages.
- 3. *Post-Consumer paper cups* This paper cup is made using post-consumer fibres. The materials used are recycled paper cups, which are prepared from virgin paper. This is considered the most eco-friendly designed paper cups out of all types. The cup is also safe to use as it is made from FDA approved fibres.
- 4. Sustainable This is made from renewable resources which are available in compostable paper styles, double-sided poly paper styles, and paper-lined styles with thick PLA shells. The designs are also available in hot or cold beverages. Like post-consumer paper cups, they are also very eco-friendly.
- 5. Wax-coated paper This cup also offer extra rigidity and protection from leaks and absorption, which also adds extra insulation. The design comes in a wide range of designs, colours, and sizes. They are not really suitable for hot beverages as the hot liquid melts the wax. As a result, the material deteriorate.

## **Benefits of Disposable Cups**

According to Laur Fisher 2008, there are three primary reasons why most establishments prefer disposable product: sanitation, cost, and convenience (Durocher, 1982) (Grishchenko, 2007).

- Keeping it clean This is the main reason why disposable cups are being made. According to Felix 1990, disposable products are exposed to high heat in the manufacturing process, which kills bacteria and renders the product to be practically sterile. As they are disposable cups, they are only being handled less and used once. On the other hand, dishes are more often exposed to bacteria and must be washed and dried properly to achieve the level of sanitization required in any establishments (Durocher, 1982) (Felix, 1990).
- 2. Keeping it cheap "Dishwasher, labour, water, and energy costs may push businesses away from reusable initially, but they can save money in the long run" (pp. 4) (Fisher, 2008). On the other hand, "the price of disposables is highly dependent on the fluctuating costs of paper, gasoline, energy, chemicals, and labour" (pp. 4). Fisher also said, that though there are some contraries, there is still no clear reason why establishments should choose disposable cups.
- Keeping it easy Based on Cohen and Darian's (2000) research, the most prevailing reason on purchasing disposable products is convenience. As disposable products can be discarded after use, therefore, they do not need cleaning and does not need to be returned.

## **Impacts of Disposable Cup**

Pollution and resource consumption are mainly the problem that occurs on using disposable cups. These include harvesting of trees, transportation to disposal in a landfill, incinerator, or public area as litter (Fisher, 2008).

An example is the Starbucks Coffee in collaboration with Alliance for Environmental Innovation (Shown in table 1). They performed a life cycle analysis for the cup and the sleeve that they currently offer.

	Stage	Description
1	Tree Harvest/Transport	felling and transporting trees to the mill
2	Virgin Manufacturing Energy	preparing the pulp for paper
3	Municipal Solid Waste Collection	local trash collection
4a	Collection Vehicle and Landfill Equipment	transporting to and containing waste in landfills
4b	Waste-to-Energy Combustion Process	burning waste in an incinerator
	Avoided Utility Energy Releases	energy regenerated by burning waste
	Ash Landfill Disposal	transporting ash from incinerators
4c*	Litter	improperly disposed of in public areas

<sup>\*</sup>Added by the author; not included in the original study.

Stages 1-4b were based on the data on p. 25-26 in Alliance for Environmental Innovation (2000)

Table 15 (pp. 55) (Fisher, 2008)

There are some factors that majority of the studies do not take into consideration including chemical output from production of paper, which releases high amount and variety of inorganic compounds and water effluents (Tammemagi, 1999). Another factor is the negative impact of landfill use "ranging from the leeching of chemicals into aquifers and waterways to the release of methane, a potent greenhouse gas, to harbouring disease, to the large area of secluded land required" (pp. 55) (Fisher, 2008) (Tammemagi, 1999). Pollution caused by transportation of disposable products from the production area to the distributers is also a factor that has to be considered. Last factor that Fisher listed is the effect of littering. Some consumers do not always make an effort to throw the cups into the bin, therefore, the cups do not usually end up in the landfill or incinerator. The cups end up as litter in public places such as water systems or roadsides. It impacts the aesthetic and the government.

Starbucks Company also conducted a research on the environmental impacts of Starbucks' Coffee Cups in 2006 shown in table (2).

	E	NVIRONMENTA	L IMPACT OF ST	ARBUCKS' COF	FEE CUPS (2006	j)	
Cups Thrown Away	Wood Consumed	Trees Cut Down	Energy Consumed	Equivalent Number of Homes that Could be Powered	Water Used	Equivalent Olympic- sized Swimming Pools	Solid Waste Created*
2.3 billion	136,789 tons	944,211	702 billion BTUs	7,747	569 million gallons	859	36 million Ibs.

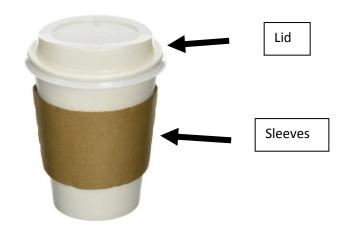
\*Starbucks' disposable hot beverage cups are not recyclable (Starbucks Coffee Company, 2007) Adapted from a table created by (Starbucks Coffee Company, 2007), based on figures from the Environmental Defense Organization's Paper Calculator



Financial value could be estimated depending on the market prices of wood, energy, water and the cost of environmental abatement.

# Section 2: Analysis of the product focus

With the help of the General Manager of Catering in DCU, Mr. Brian Bates, and the Sustainability Manager of DCU, Ms. Samantha Fahy, the information required to write the report is provided.



# Paper Coffee Cups

(Amazon, 1996-2017)

Total Annual Coffee Cups Usage at DCU701, 200
-----------------------------------------------

Coffee Cup Information	Weight (kg)	Cost (€)
Average Disposable cup	0.11	0.05
Plastic Lid	0.03	0.02
Paper Sleeve	0.05	0.07
	Total Weight: 0.19	Average Cost: 0.14

DCU Annual non-recyclable cups waste	Weight (kg)	Weight (Tonnes)
(Total Weight of a Coffee Cup x		
Total Annual Coffee Cups Usage	133 228	133.228
at DCU)		

Total DCU Waste 2016 (Tonnes)	912.008	
% of DCU Total Waste	15%	

Total Cost of Waste (€)	98 168
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## **Coffee Mugs**

Due to lack of demand of the mugs, Main Restaurant does not really order mugs. According to Brian, customers can still ask for the mugs but because of safety issues (i.e. burning of skin), they do not recommend it.

## **Reusable Cups**

In 2015, all the catering facility in DCU started offering 10% discount for people who bring reusable cups with them. But as months passed by, staffs and students have stopped bringing them, which according to the manager, is because of:

- 1. No facility to wash them
- 2. Convenience

# Section 3: Analysis of the approaches can be considered to reduce consumption of paper coffee cups in the main restaurant

#### Approaches:

1. Reusable cups

Reusable cups has been introduced to DCU, the issue is the advertisement. There are different DCU reusable cups introduced in the campus for the past 3 years.

- a. Green Reusable Cup
- b. Spar Reusable Cup
- c. Keep Cup

These are all not advertised well enough, neither the discount that applies when students/staffs bring these reusable cups with them. People do not know where to purchase them. Based on the people that were interviewed, they like the DCU logo but they are not sure where to get them.

Upon studying the case, I informally interviewed some students who always buy coffee. Knowing that the price impacts the buying behaviour of a consumer, I started the conversation telling them that they can get discount by bringing their own reusable coffee cup.

First response was "My bag is too heavy; I do not have enough space in my bag.

Second response was "It is only 10 c discount".

As literature also indicated, convenience is one of the main reason why consumers prefer disposable than reusable cups.

Price is another factor that affect staffs and students to use disposable cups. For the past few years, it is clearly proven that 10 c discount is not effective enough to change consumer's buying behaviour in DCU.

Upon studying a marketing module and working as retail assistant in a big company, changing prices affect the behaviour of the consumer. This is also supported by the literature under personal factor. Consumer often changes as "situation changes". Therefore, there is a potential increase of consumers who will use reusable cups if the college change the pricing system of the beverages. This will push people to stop and think about the price differences between the day they bought the coffee for two euros and the new payment they have to do now. According to literature, as purchase decision is also influenced by motivation, perception, learning, and beliefs, one or two purchases can spread the price changes in their own group of friends, which can potentially spread to the area.

From customer's perspective, 10 c discount does not work because paying a whole number (two euros) is better than paying 1.80 euros. Again, it is because of the convenience factor.

Working as retail assistant gave me view that majority of customers do not want to have a lot of changes in their pocket. They want it when they need it. Two euro is considered as a "cheap" enough price for a coffee. It is the average price for an average hot beverage for most of the shops in Ireland.

Millichaliaa	Individual Individual Product Product Calories* Calories*	
Milkshakes	Nedun Large	
Strawberry	(77) €2.20 (B) €2	
Chocolate	300 €2.20 AB €2	200
Vanilla	677) €2.20 A €2	
*Based on a typical serving.		-
	Individual Individual Product Product	
Hot Drinks	Calories* Colories*	
	Tall Grande	
Lyons Tea with Milk	12 €1.60 12 €1	
Freshly Ground Americano Coffee	6 €2.15 B €2	
Freshly Ground Latte	140 €2.30 190 €2	.6
Freshly Ground Cappuccino	94 €2.30 124 €2	.6
Freshly Ground Mocha	251 €2.40 376 €2	.7
Freshly Ground Espresso "Based on a typical serving.	E1.50	.8
Desserts	Individual Product Individual	
	Calaties" Price	
McFlurry® Number Smartles	£2.10	
McFlurry Colleges Crunchie	€2.10 ·	
McFlurry Colory Dairy Mile Sundaes Stradary	332 €2.10	
Sundaes Herridge	292 €1.60	
Sundaes Council	€1.60	
Hot Apple Pie	050 €1.60	
Triple Chocolate Cookie	€1.20	
Sugar Donut	€1.50	
Blueberry Muffin	189 €1.00	
Chocolate Muffin	€1.60	
and the second se	€1.60	

Figure 63: McDonald's Price (zomato, 2008-2017)

McDonald's	€2.40
Bewley's	€2.50
Starbucks	€2.85
Insomnia	€2.80

Table 17: Value for money (Rate of Coffee from Irish Times by Conor Pope)

#### (Pope, 2014)

Therefore, instead of a discount, charging 10 c more for not bringing a reusable cup could potentially impact consumer's buying behaviour, because it is extra 10 c that should be taken from their pocket.

This might affect the number of the consumers of the shop for the first few weeks or months because the idea of bringing the reusable cup could take time to get into the habit. But as

discussed previously, DCU has to advertise the reusable cups effectively. Student Union has big influence in the campus, if they give more support on this issue, they could impact the views of the students.

#### 2. Ceramic mugs

Ceramic mugs should available on request. If a customer requests it, they are taking responsibility for their own act.

Meetings in DCU like committee meetings or small meetings should also provide ceramic mugs instead of non-recyclable cups, as it reduces the number of cups being wasted.

#### 3. Compostable coffee cups

Finally, compostable coffee cups are one of the best recommendations as it saves the environment and it saves the organisation and customer's money.

According to BBC1, Hugh's War on Waste, 7 million of coffee cups being used in the UK everyday goes to landfill or incineration, even though many of them are claimed to be recyclable (Vegware, 2016).

Vegware stated in their commercial video that the reason for the coffee cups not being recycled is because if card and plastic are mixed, there would be a recycling problem, as contamination occurs between the two materials. Compostable cup can be recycled with food waste, made from plants and 72% less carbon than plastic (Vegware, 2016). They also have suggested that the only solution is to have an eco-friendly start to finish. For example, using materials for serving food to the proper bins provided (Vegware, 2016).

To support, Environmental enterprises, a company who sell biodegradable and compostable products, also added that purchasing and producing products made of plastics contribute to global warming and other environmental issues (Environmental Enterprises, 2017). "You'll not only lower your CO2 emissions by purchasing biodegradable products no matter if you're an individual or a company, you'll also help reduce the amount of oil used for plastic products. Everyone can contribute to a plastic free future; it's easy to make the switch once you know where to look" (Environmental Enterprises, 2017).

As discussed previously, products cannot be recycled because of the contamination between materials. If compostable cups are going to be sold around the campus, it means that there should also be proper bins provided which can be easily accessed by everyone. Communication is the tool to make this effective. DCU community might not be aware of the changes that are happening in DCU. Therefore, if compostable cups are to be sold, it is necessary to provide DCU information before it is going to happen and while it is happening. This is not to annoy the students or staffs but to make sure that the committee shows a strong support on the issue. Another challenge for DCU is to recognise the difference between wastes. For example, compostable cups could be a huge benefit, but only if the people recognise where to dispose it properly. There could be a huge problem on mistaking compostable cups as old cups if not applied to the whole campus. Therefore, this will confuse the consumers where to actually throw the cups that they are using anywhere in DCU. As suggested earlier by Environmental Enterprises, the solution to zero waste is to

support the eco-act all the way. In DCU case, if the campus is going to start using compostable cups, it should be provided not just in one place but also everywhere in the campus. Brown bins should be provided and be accessed easily. DCU community should be provided with clear and honest information about these bins and the issues the campus are facing. It all lead to proper and effective communication.

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Appendix 4 : PakMan Application



# Dublin City University Pakman Awards 2016 WEEE Champion

Short Summary of Organisation

**Dublin City University** is a multi-campus university will have a strong, visible, presence in North Dublin, underpinning it position as the most significant and comprehensive provider of University education on the rapidly growing and economically important Eastern corridor.

DCU has approximately 16,000 students with a focus on personal, academic and professional life-skill development.

**Kathleen Whelan** is the Waste Manager for Dublin City University. For the more than the past decade DCU has been actively pursuing alternatives to landfill. Her role includes designing and developing a sustainable and environmentally sustainable waste management strategy for the University.

#### Initiatives to increase take back of electrical and electronic waste (WEEE) for recovery

From observations it was noted that there was a lot of electrical and electronic equipment being thrown into skips which at the time would have ended up in landfill. Knowing that the material was recyclable I felt sure that something could be done to divert the equipment from landfill. A paragraph was placed in the DCU Waste Management tender document in 2004 to elicit some feedback and hopefully generate some ideas about to how to go about implementing Electrical and electronic recycling on campus.

This led to KMK Metals being awarded the contract for the electrical and electronic recycling on campus who were required to provide information regarding the WEEE taken off site and ensure that the collection and disposal of the WEEE was in compliance with relevant Irish and European Union legislative requirements including certification guaranteeing correct recycling

and disposal of any equipment delivered/collected is provided for each accepted delivery/collection.

In addition in conjunction with the DCU Green Committee initiatives have been run to promote and highlight WEEE recycling, these initiatives have included setting up a competition between staff, students and local community around the DCU Campus to see how could recycle the most.



WEEE Recycling Initiative in conjunction with DCU Green Committee

## Increased recycling or reuse volumes as a result of the initiative

Since 2011 there has been a steady increase in the metric tonnes of electronic and electrical equipment being recycled. 2013 was an exceptional year with several changes to electronic resources within DCU leading to an increase in total WEEE produced and thereafter recycled.

YEAR	2011	2012	2013	2014	2015
Tonnes	16.4	21.9	28.5	22.2	26.8

## Involvement of staff and/or consumers or other stakeholders

All staff on campus are emailed two weeks prior to collections to ask for information on items for collection. Working with the Information Systems Services and the DCU Finance Department this initiative now includes as of January 2015 information on risk compliance to encourage staff to be more aware of the need to ensure data protection and asset management.

As mentioned above the DCU Estates office has worked with the DCU Green Committee to run recycling initiatives of electrical waste event in conjunction with WEEE Ireland. This event was

organised in order to further reduce waste around campus by encouraging students, staff and the wider community to bring in any broken, unused or unwanted electrical items. The event was promoted as a competition between the three group DCU staff, DCU Students and the external community. There was participation from all the targeted groups and a wide variety of items brought in ranging from kitchen appliances to bulbs and batteries. Overall the event proved to be very successful and we will be looking forward to working again with WEEE Ireland in the future. Bank of Ireland donated a €50 one for all voucher as a prize for the raffle and a DCU sports bag was donated by a staff member. 20 people brought in items. These initiatives have been very successful and will be continued on a regular basis.

## Management of take-back / waste before collection

Due to the size of the campus DCU requires a mobile and flexible collection solution due to the size of the campus. All DCU staff are emailed two weeks prior to collections to ask for information on items for collection and a list is compiled and given to the contractor. Collection points have been strategically located on campus that are accessible to all staff. To encourage everyone to avail of this direct collections are organised from offices and buildings from any of the 40 buildings on campus which is particularly important with larger items.

## Demonstrate service to the community

The WEEE initiative has been hugely successful to date and the benefits include:

- Better management of assets
- Maximising contribution to core business continuity.
- Ensure compliance with legislation and reduce risks.
- Plan and identifying assets that require repair or replacement or can be transferred across units in DCU
- Helps reduce procurement of equipment through better asset management and planning
- Enhanced asset life cycle management and processes

Appendix 5 : Biodiversity Worksheet + Presentation

Biodiversity



Biodiversity is the variety of all the plant and animal life in the world.



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# How can we help







**Common Name:** Dandelion **Latin Name:** Taraxacum platycarpum





Common Name: Daffodil Latin Name: Narcissus pseudonarcissus



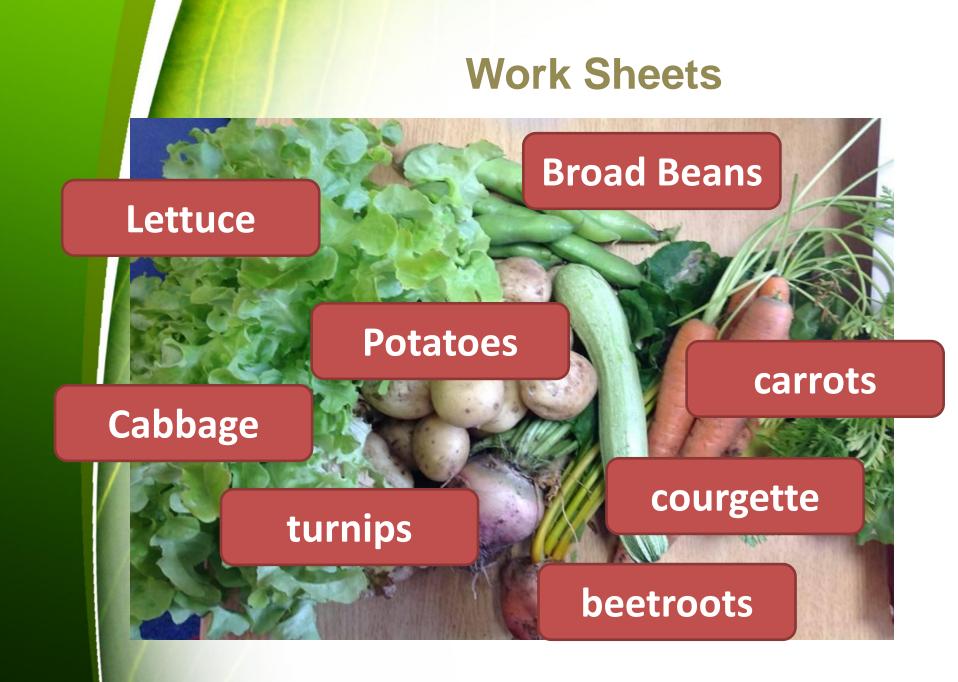


# Common Name: Buttercup Latin Name: Ranunculus repens

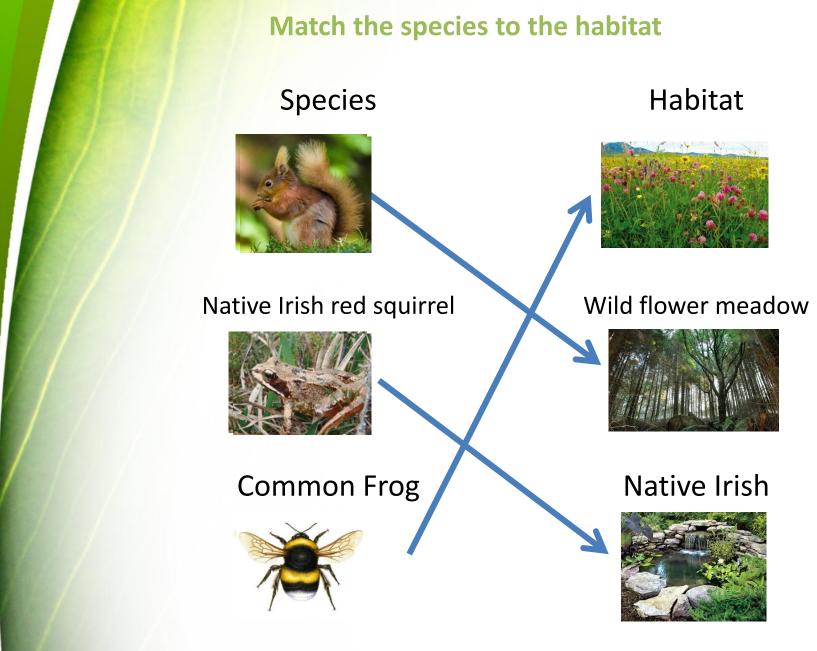
# WHY YELLOW



# It's one of a Bees favourite colour







Buff-tailed bumblebee

Pond

# Thank you For listening



# Please complete this worksheet and bring it to class on Friday 24 March 2017 for Biodiversity Day

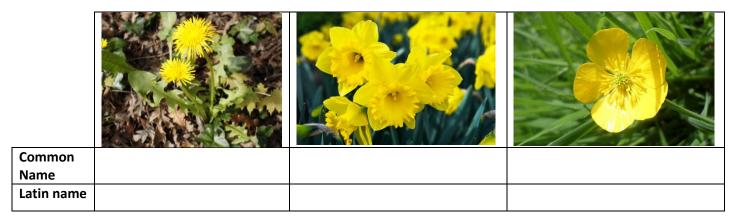
Your name : Class Teacher:

# **A Biodiversity Worksheet**

What is Biodiversity? : It is the variety of plant and animal life in the world or in a particular habitat, a high level of which is usually considered to be important and desirable.

# Can you name these flowers ?

Name these yellow flowers with common and Latin names (you may need to look up the Latin names in a dictionary or the internet)



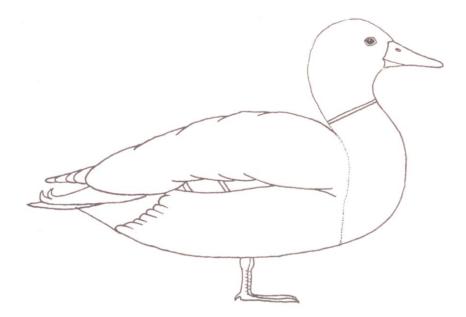
# Can you name these vegetables ?



Identify 3 Vegetables shown in the picture (common name only!)

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

# Mallard (Anas Platyrhynchos)



This is a male mallard duck – can you colour him in correctly? Green head, with a white stripe and brown neck, grey wings with purple patch between wings and body and a black tail.

# Match the species to the habitat



Native Irish red squirrel (Sciurus vulgaris)



Common Frog (Rana temporaria)



Buff-tailed bumblebee (Bombus terrestris)



Wild flower meadow



#### Native Irish woodland



Pond

# Appendix 6 : Cloughjordan Agreement

# MEMORANDUM OF UNDERSTANDING

# BETWEEN DUBLIN CITY UNIVERSITY and Cloughjordan Ecovillage

#### PREAMBLE

This Memorandum of Understanding (MOU) is entered into by and between Dublin City University (DCU), with a registered address at Glasnevin, Dublin 9, Ireland and Cloughjordan Ecovillage Co Tipperary. Both DCU and CLOUGHJORDAN ECOVILLAGE are referred to collectively as the "Parties" or individually as a "Party".

Whereas:

#### (a) Dublin City University (DCU)

Founded in 1975 as NIHE (Dublin) and established as a University in 1989, Dublin City University (DCU) is a dynamic, research intensive institution. Radical in its strategy from the outset, it is characterised by a focus on innovation and entrepreneurship, close engagement with the enterprise sector in its research and education activities, and the ability to move quickly and effect change. DCU is renowned as being *"Ireland's University of Enterprise"*. DCU is comprised of four academic Faculties, namely:

- o Science & Health
- Engineering & Computing
- Humanities & Social Sciences
- DCU Business School
- o DCU Institute of Education

DCU is also home to a number of world-class research centres that focus on translating their outputs into societal and economic benefits in keeping with the mission of DCU to transform lives and societies through education, research and innovation".

#### (b) Cloughjordan Ecovillage

Incorporated in 1999, Sustainable Projects Ireland Clg is a registered educational charity (number 20041182) run along co-operative principles. It is a company limited by guarantee but with articles of association ensuring that the group operates in much the same way as a cooperative. A members agreement defines members' rights and obligations. In addition members subscribe to an ecological charter which sets out guidelines for the design of the development and which will continue to affect all future operations. In 2003 members adopted the idea of shared purposes and principles: shared out responsibilities. Since then members have adopted a revolutionary organisational system which gives maximum autonomy to all participants. In 2005 land was purchased in Cloughjordan and received Outline Planning Permission for a sustainable community of 130 homes and work units and construction of the first homes began in March 2009. The first residents of the ecovillage moved into their new homes in December 2009.

- 1. Purpose.
  - 1.1. CLOUGHJORDAN ECOVILLAGE and DCU wish to record in writing their proposals about potential future projects and activities between them, with the vision of creating a more formal relationship between both institutions to work together on four areas of engagement namely, (1) Sharing our learning journey (2) Research Collaboration (3) Internships and work experience (4) An Ghaeilge. These are further outlined in Schedule 1 ("The Proposal").
- 2. Legally Binding Provisions.
- 2.1. The Schedule and Section 1 of this MOU are not legally binding. Subject to Section 2.2, no contract for the Proposal will exist unless an agreement in writing is signed by the authorised representatives of each party.
- **2.2.** Clauses 2 to 6 of this MOU represent those clauses agreed as legally binding between the parties.

#### 3. Costs and Liability.

- 3.1. Each party will bear its own costs and expenses with regard to all negotiations and activities relating to the subject matter of this MOU.
- 3.2. Neither party will have any liability whatsoever to the other party under or in connection with this MOU or any aspects of the Proposal, either in contract, tort or otherwise (including, without limitation, for negligence and misrepresentation), for: (a) loss of revenue; (b) loss of actual or anticipated profits; (c) loss of anticipated savings; (d) loss of reputation; (e) loss of, damage to or corruption of data; or (f) any indirect or consequential loss or damage howsoever arising.
- **3.3.** Section 3.2 will not apply to: (a) liability for fraud or other criminal acts, deceit, death or personal injury resulting from negligence, fraudulent misrepresentation, and any other liability that cannot be excluded by law.

#### 4. IP and Confidentiality.

- **4.1.** No license is granted under this MOU to either party under any of the other party's intellectual property rights. Any such license must in every instance be agreed between the parties in writing.
- **4.2.** The parties will not exchange confidential information under this MOU. If the parties wish to exchange confidential information they will do so after signing an appropriate confidentiality agreement.

#### 5. Term and Termination.

- 5.1. This MOU will be effective on 1st June 2017, ("The Commencement Date").
- **5.2.** This MOU will remain in effect for Three (3) Years ("The Term") from the Commencement Date.
- **5.3.** Either party can at any time for any reason and without any liability: (a) end negotiations; or (b) terminate this MOU by providing thirty (30) days written notice to the other party.
- 6. General provisions.

- **6.1.** The parties will comply with all applicable laws and regulations in performing activities relating to the subject matter of this MOU, including without limitation anti-corruption laws (examples of which may include, the Bribery Act 2010 of the UK and the Foreign Corrupt Practices Act 1977 of the US, as amended), export control laws and sanctions programs regulations ("Laws"). Each party agrees not do anything which would cause the other party to be in contravention of any Law.
- 6.2. This MOU does not create an exclusive relationship between the parties in relation to the Proposal.
- **6.3.** Each party agrees that it will seek and receive the express prior consent of the other party before it discloses to the public or to any third party the existence of this MOU or the proposed relationship described herein.
- **6.4.** This MOU constitutes the entire understanding between the parties with regard to its subject matter. Neither party has relied on any statements or representations made by the other in connection with this MOU, which are not set out in this MOU. No variation of this MOU will be effective, unless it is made in writing and signed by the authorised representatives of each party.
- 6.5. This MOU and any dispute or claim arising out or in connection with it or its formation, interpretation, subject matter, performance, enforceability and termination (including non-contractual disputes or claims) are: (a) governed by Irish law, without regard to any conflict of law principles; and (b) subject to the exclusive jurisdiction and venue of the Irish courts. Each party irrevocably waives any objection to such jurisdiction and venue.

#### **Dublin City University:**

Signature of Professor Daire Keogh

Professor Daire Keogh

Printed Name of Legal Representative

Deputy President Title of Legal Representative

25<sup>th</sup> May 2017

#### **Cloughjordan Ecovillage:**

Signature of Professor Peadar Kirb

Professor Peadar Kirby

Printed Name of Legal Representative

Chair, Sustainable Projects Ireland (Cloughjordan EcoVillage) Title of Legal Representative

25th May 2017

## **SCHEDULE 1: The Proposal**

#### Linking DCU and Cloughjordan ecovillage Initial ideas for future collaboration

- Sharing our learning journey: study visits by staff and students: The ecovillage offers a two-day intensive course on transitioning to a low-carbon society based on the elements of the ecovillage that allow it achieve Ireland's lowest ecological footprint of 2 global hectares (compared to an EF of 5.6gHs for the average Irish person). This covers:
  - The challenges of climate change
  - An introduction to the history and development of the ecovillage followed by a tour which includes visiting the ecovillage's newest facility, the Cloughjordan Community Amphitheatre.
  - A study of the Cloughjordan food system including its biodynamic Community Supported Agriculture (CSA) farm, its allotments, its eggs, milk and bread clubs, its catering co-op and café and its commitment to principles of permaculture in the way it develops its land.
  - A study of the ecovillage energy system based on Ireland's only district heating system fuelled entirely by renewable energy sources and emitting no net carbon emissions. This includes visits to the energy barn and to homes to examine the heating system in practice.
  - An exploration of how the ecovillage community governs itself and deals with tensions and disagreements. This examines dimensions of community organisation and governance, resilience and conflict mediation.
- 2) <u>Research collaboration</u>: The ecovillage offers a unique setting for research into a large range of issues relating to transitioning to a low-carbon society and attracts a stream of researchers (both students and academics) from Ireland and abroad. For example, in 2016 research students and academics from NUIG, DIT, Utrecht University, Nottingham University, UNED (Spain), Erasmushogeschool Brussels, Lancaster University and Sussex University contacted the ecovillage and seven researchers spent various periods with us. The range of research undertaken included:
  - the ecovillage food system
  - rainwater harvesting
  - health and safety issues
  - energy-efficient homes
  - the socio-psychological sustainability of ecovillage living
  - attitudes to global warming and future outcomes
  - the possibilities of post-carbon societies.

The ecovillage also contains Ireland's only community-based fab lab which may offer opportunities for collaboration.

- 3) Internships and work experience: The ecovillage relies of voluntary labour especially on Cloughjordan Community Farm. Volunteering in the ecovillage offers a unique experience of living in an intentional community which organises itself around principles of sustainability and interdependence.
- 4) <u>An Ghaeilge</u>: Tá se mar aidhm ag an éiceaphobal an Ghaeilge a chur chun cinn. Tá ainmneacha na sráideanna i nGaeilge amháin (gan aistriú go haon teanga eile) agus cuireann sé siúlóidí treoraithe agus cúrsaí lae ar fáil trí Ghaeilge.

Appendix 7 : Horticulture Histories

# Horticulture Histories – Pilot Project

## Introduction to RCE Dublin

In March 2014 the United Nations University (UNU) acknowledged the establishment of a new Regional Centre of Expertise (RCE) in Education for Sustainable Development (ESD) for the greater Dublin area. RCE Dublin is part of a network of 129 regional centres of expertise in education for sustainable development across the globe that are acting at local, national, regional and international levels to promote peaceable and sustainable futures for all. Coordinated by Dublin City University (DCU) partners includes: Dublin City University, Educate Together, An Taisce, Dublin City Council, JustForests, FightingWords, ECO-UNESCO and The Green Way.

Education for Sustainable Development (ESD) seeks to equip learners with the knowledge, skills, values and competences that contribute to healthy and just, economically viable and ecologically sustainable futures for all. To become more sustainable, we must recognize, and respond appropriately to, the complexity and interconnectedness of issues such as: conflicts, poverty, wasteful consumption, environmental degradation, climate change, urban population growth, gender inequalities, and other human rights violations. The problem that exists today is that a significant number of us are apathetic about these and other sustainability issues, even in the face of overwhelming evidence (from organisations such as the Intergovernmental Panel on Climate Change) that many of our actions are negatively impacting our societies, economies and environment. In order to foster sustainability, we need to re-balance individual and societal "needs and wants". Education has an important role to play in this regard, in that it can enable learners to challenge unsustainable thinking and practices; and promote change agency for and action on sustainability.

RCE Dublin will enhance ESD through the use of new disruptive pedagogies that challenge learners' mindsets on sustainability and promote change agency for sustainability; and through a number of action projects addressing local sustainability issues within the greater Dublin area from 2014-2018. More info on http://rcedublin.ie/.

## Horticulture Histories Project

Horticulture Histories (HH) is one of several project being undertaken under the RCE umbrella, it seeks to engage with primary schools to create and new and innovative account of flora & fauna in the North Dublin region building on archival material captured by primary schools in the 1930's and digitised by Dúchas.ie in the National Folklore Collection of Ireland.

The pilot project will review the Dúchas.ie material and identify relevant accounts captured both for the specific area of North Dublin and relevant horticulture references, examples of which can be seen in Fig 1 & 2 below.

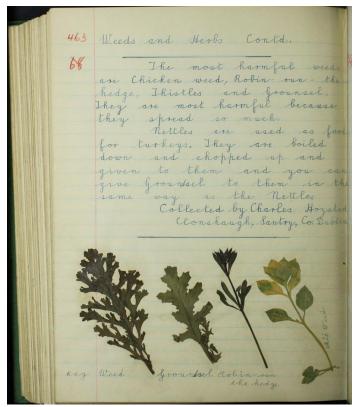


Figure 1: Example of accounts in Dúchas.ie

167 . Remains of Mud. Wall Cabins in the City area of Dublin. Drum condra district - Botanio avenue. Midway between Jolka Bridge and the Worden Church on this road was up to recent times a row of little stated cottages about seven or eight row of little stated cottages about seven or eight in number. In July 1935 the cottages were remained to make room for the exection of new houses. During the course of demotition Instead that the ride wells of the houses were built of 'Chennel', in which the traces of the wheater strew originally used in the process of mixing were clearly visitle the houses notes above may have been the remains of some forgetter inleage. J. Walsh, 16 Crescent Vieles, Lona Rd. Dublin × red clay at a depth of c. 6 N.B. The site of the above mud. walled ceties is now occupied by houses no. 120, 122, 124, 126 128, 130, 132, 134, 136, and 138, Botanie avenue. Jev.

Figure 2 : Example of accounts in Dúchas.ie

This initial pilot project will work with a small number of primary school in the North Dublin region. It is anticipated that this engagement with the Schools will fall under existing school activities such as the Biodiversity Theme within the An Taisce Green Schools programme. A resource pack will be created with stories/excerpts from the 1930 accounts, this pack will also identify mechanisms by which students can gather their stories via current technology such as audio & video recordings/photo montages/blogs etc. Students will be encouraged to identify their preferred story capturing methodology. Stories can from their local habitat i.e. home, local park, local beach etc, could also extend to grandparents and their possible more rural location. These stories will be gathered and collated by the project and hosted on the RCE website.

The gathered stories will be entered into a small competition judged by a panel from An Taisce, Dublin City Council and DCU with prizes awarded for the most innovative accounts.

# **Background and further information:**

## History of the Albert College at DCU

The site on which the modern day Dublin City University stands once hosted the Glasnevin Model Farm. The Glasnevin Model Farm, established in 1838 became the Albert National Agricultural Training Institution in 1853 after a visit by Prince Albert. The name Albert Agricultural College first appears in the 1902 Report of the Department of Agriculture and Technical Instruction. Its foundation was an important event in the history of Irish agricultural education, whose primary function in its early years was the provision of instruction for primary school teachers to teach agriculture and meet the requirements set down by Board of National Education in Ireland. The Board was established in 1831 to create a nationwide system of primary education. By 1837 it had decided that agriculture should be taught in all its schools and therefore teachers would need training in modern farming methods and the provision of this instruction was the main purpose of the college during the first sixty years of its existence. The Albert College also taught those who wished to make a career in agriculture.

The Board extended its policy of primary-level agricultural education by establishing twenty Model Agricultural Schools and provided many National Schools with small holdings or gardens. There were forty-seven of these Ordinary Agricultural Schools by 1859. From 1850 the Board adopted a policy of teaching agriculture in the workhouse schools and by 1859 lessons in agriculture were being given in fifty-nine workhouse schools.

Despite its success, the Board met opposition from members of all religious denominations as one of its aims was to establish non-denominational education and various accommodations had to be made. However, no accommodation was possible with the prevalent laissez-faire economic policies. The Liverpool Financial Reform Association attacked the use of public money for agricultural education, and in parliament, Liberal MPs and several Chief Secretaries opposed the Boardís policies. The Board was forced to discontinue support for the workhouse schools in 1863 and in 1874 disposed of most of the model farms. The Albert Agricultural College survived, probably because it

was not exclusively concerned with the Board's educational policies, it also carried out research work in new crop varieties, farming methods and breeding livestock.

From the 1870s, valuable work was being carried out in the college in experimenting with new crop varieties and new farming methods, and in improving breed of livestock, especially pigs. In 1890 the college pioneered the use in Ireland of a French method of treating fungal infection. This turned out to be the first successful treatment for potato blight.

An 1896 report by the "Recess Committee" stated that big increases in agricultural production could be achieved by 'Organisation, Representation, Education' of the farming population. The Recess Committee was an unofficial committee organised and chaired by Sir Horace Plunkett and composed of prominent Irishmen of all political and religious persuasions. Its function was to consider a wide range of matters concerned with Ireland's economic and social future. The Agricultural and Technical Instruction Act, 1899, was passed as a result of this report. The Department of Agriculture and Technical Instruction [DATI], which began work in 1900, determined that the problems with the development of agriculture in Ireland would be better addressed through higher education and a Faculty of Education was established at the College of Science. Most of the teaching was carried out in the Albert Agricultural College and the college continued to teach courses of its own as well. Many of the students at the Faculty had first completed one of the college's own courses. Peripatetic instructors were considered particularly important, and, by 1913–14, 175 of these had been trained by the Faculty.

Dáil Éireann set up nine departments in April 1919 including a Department of Agriculture. The DATI continued to function and was tolerated by the Dáil, whose members recognised its valuable work and disinterested traditions. The situation was clarified following the singing of the Anglo-Irish Treaty in 1921 when a single Department of Agriculture was established in 1922. Under the University Education (Agriculture and Dairy Science) Act, 1926, a Faculty of Agriculture was set up at University College, Dublin and the Albert Agricultural College and the Royal College of Science for Ireland were taken over by UCD. In 1979 the Faculty of General Agriculture is new building at Belfield was opened and the Albert Agricultural College site was finally closed.

## Biodiversity & Ecosystems

Biodiversity is often described in terms of the abundance of entities, for example the numbers of genotypes, species or ecosystems and the regularity of their distribution. It also refers to the variation in their functional traits and their interactions. Biodiversity can be simply defined as the variety of life on earth. It includes species diversity, genetic diversity and ecosystem diversity (Kaenneal 1998). Although the term biodiversity is commonly used as a synonym for species richness, biodiversity is much more complex than that. It also encompasses relative abundance, the presence or absence of key species and composition which all have different effects on ecosystem function. (Hooper et al. 2005) The term ecosystem can be defined as a biological community of interacting organisms and the physical environment in which these interactions take place. Biodiversity is beneficial to humans in a number of different ways; biodiversity is both culturally and aesthetically beneficial. The ecological services biodiversity provides such as climate regulation, soil formation and nutrient cycling, as well as providing us with food, fuel, fibers and medicines. It is, however, quite difficult to say exactly how much natural ecosystems and biodiversity are worth to us

because its value is not covered by our current market based economics and analysis (Balmford et al, 2002).

## Duchas (<u>http://www.duchas.ie/en</u>)

Dúchas.ie is a project to digitise the National Folklore Collection of Ireland, one of the largest folklore collections in the world. Material from nineteen counties in the Schools' Collection is available here now. New material is being added on a phased basis.

# **Appendix 8 : Urban Gardening**

# Workshop Series: Urban Gardening at DCU

Target Audience : DCU Students Timeframe : Oct – Nov 2017 Cost : Free to DCU registered students

**Workshop Intro :** The objective of this series of workshops is to engage DCU students in the DCU Community Garden and thereby increase their awareness of sustainability issues while training them to grow healthy food in a local urban environment.

Date	Workshop title	Presenters	Time & Location	
04 Oct 2017	Introduction to Sustainability, DCU Community Garden & Cloughjordan Eco Village	Samantha Fahy/ Eoin Cambell	13.00 – 14.00 TBC	
11 Oct 2017	RiotRye bakery for a lunchtime demo	Joe Fitzmaurice of <u>http://www.riotrye.ie</u>	12.30 – 14.00 TBC	
18 Oct 2017	Compost Training Day & Compost Demonstration Site Build	Rediscovery Centre www.rediscovery centre.ie	10.00 – 16.00 Rediscovery Centre	
25 Oct 2017	Introduction to Horticulture 101	Jason and Marty Garden Gnomes	12.30 – 14.00 DCU Comm Garden	
01 Nov 2017	Introduction to Urban Farming	Jason and Marty Garden Gnomes	12.30 – 14.00 DCU Comm Garden	
08 Nov 2017	Cloughjordan Community Farm CSA	Dr. Ollie Moore	12.30 - 14.00 TBC	

There are a limited number of spaces so please email asap <u>sustainability@dcu.ie</u> if you are interested in participating. You do not have to attend all sessions.

Supported by : DCU Quality Improvement & Development (QuID) Fund





# **Dublin City University**

# **Procurement Policy**

# 1. Purpose

This procurement policy is designed to support the University's mission. To this end, the policy ensures that procurement procedures and practices:

- are appropriate and fully responsive to the University's diverse needs;
- are timely and effective;
- provide excellent value for money
- comply with all legislation effecting the University's procurement activities;
- minimise commercial and contractual risk;
- are open and fair to the supplier community including, wherever possible, small local suppliers;
- give due consideration to environmental impact;
- promote high ethical standards and financial probity.

# 2. Philosophy

The University has a devolved procurement policy which aims to put control and responsibility as near as possible to the point of need. This is underpinned by centrally provided accounting and procurement functions which provide both advice and support to departmental procurement activities.

Heads of department are responsible for procuring the goods and services they require within defined budgets. Purchasing authority may be delegated to designated budget holders within a department. In exercising this delegated authority, budget holders are required to observe the University's policies and procedures regarding the authorisation of expenditure and procurement.

Heads of department and their delegated budget holders are only authorised to commit the University to any expenditure after ensuring that sufficient funds are available to meet the purchase cost of goods and services. In addition, only bona fide expenditure, as outlined in the financial procedures, may be authorised from University funds.



The University requires all budget centre and grant holders, irrespective of the source of funds, to obtain supplies, equipment and services at the lowest possible cost consistent with quality, delivery requirements and social and environmental factors, and in accordance with sound business practice. Factors to be considered in determining lowest cost are noted in the procurement procedures, and it should be noted that "lowest cost" does not necessarily mean "cheapest".

## 3. Sustainability

The University acknowledges that its purchasing decisions have major socioeconomic and environmental implications, both locally and globally. We aim to manage our procurement activities in an environmentally responsible and sustainable manner and to achieve this we will:

- Make procurement decisions based on a balance between economic, social and environmental factors.
- Provide guidance to staff involved in purchasing to help them make more sustainable purchasing decisions.
- Consider whole life costs and environmental impacts when making purchasing decisions.
- Include environmental performance in supplier appraisal criteria during supplier selection.
- Encourage suppliers to operate cleaner production processes, supply more environmentally friendly products and help spread environmental improvements through the supply chain.
- Encourage suppliers to minimise the use of packaging.

# 4. Failure to Comply

Failure to comply with procurement policies and procedures may result in the University incurring unnecessary or excessive expenditure. This may result in disciplinary procedures against the individual(s) concerned.

## **5. Related Documentation**

**Procurement Policy Manual** - Available from the DCU Procurement Office and on the Finance Office Webpages.



## 6. Contacts

For further details on any aspect of this policy, please contact:

Strategic Procurement and Supply Chain Manager

Tel: 01-7007886

# 7. Version Control

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Date	1st March 2015	