# eCycle: an Electrically Assisted Shared Bicycles Scheme

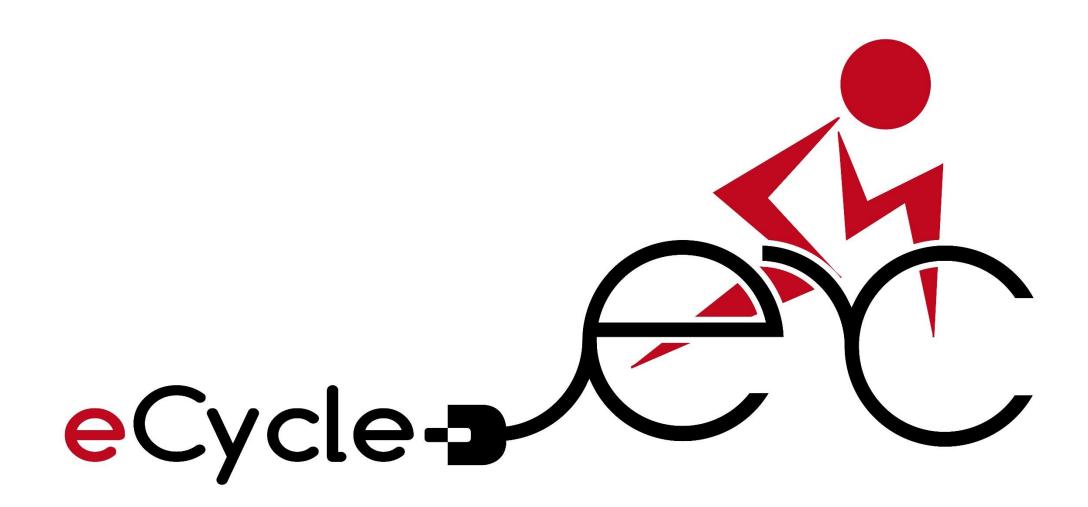
Speaker:

Jamie Pearson, Environmental Sustainability Manager, Edinburgh Napier University



**LiFE Framework: Travel and Transport** 

Wednesday 07 October 2015, 12:00 - 13:00



# Edinburgh Further and Higher Education Transport Group (EFHETG)

Member Institutions













Project Partners





# 28 EAPC's



# Background Review





# 3.2 Detailed Requirement

# 3.2.1 Detailed specification of the electrically assisted pedal cycles (30 marks)

Demonstrate how you would meet or exceed each element below A through O for the 22 EAPC's requested.

Please feel free to propose better and where you do illustrate why your solution is better.

Ensure you address the quality of the EAPC's as a whole and their components given the shared usage of the EAPC's and thus the need for them to be sufficiently robust and durable.

Please supply relevant photos, drawings or other evidence to show compliance with the criteria listed below.

- A 36V motor.
- B 250W motor.
- C Motor positioned at pedal height.
- D Step-through unisex frame (or a type that would be suitable for the majority of male and female cyclists).
- E EAPC with a weight range of 20 to 25Kg (including the battery, when in position)
- F Puncture resistant tyres.
- G Tyre width conducive to city commuting.
- H Brakes conducive to city commuting.
- I Number of gears no less than nine.
- J Flat, clip-less pedals.
- K Easily adjustable seats and handlebars.
- L Integrated front and rear lights.
- M Integrated rack, allowing for a wide range of panniers to be fitted.
- N Integrated stand.
- O Integrated front and back mud-flaps, providing maximum protection to the EAPC user.

# 3.2.2 Detailed specification of battery (15 marks)

Demonstrate how you would meet or exceed each element below A through J for the 22 EAPC's batteries requested.

Please feel free to propose better and where you do illustrate why your solution is better.

Please supply photos, drawings or other evidence to show compliance with the criteria listed below:

- A Durable Lithium Ion battery.
- B Secure and lockable battery.
- C Battery that is easy to remove from the EAPC frame.

- D Battery that is easy to charge.
- E Integrated (fixed) or detachable display/panel shows the charge or battery remaining.
- F Demonstrate the usability of the display/panel.
- G Average mileage expected from a full charge, in a city commuting environment.
- H Time taken between flat and full charge.
- Estimated lifetime of the battery, for average daily distances in a city commuting environment.
- Advice on charging techniques to elongate the lifetime of each battery.

# 3.2.3 Detailed specification of accessories (5 marks)

Demonstrate how you would meet or exceed each element below A through E for the 22 EAPC's accessories requested. Please feel free to propose better and where you do illustrate why your solution is better.

Please supply photos, drawings or other evidence to show compliance with the criteria listed below:

- A 44 panniers, each with a volume of 18 to 22 litres.
- B Panniers that fit the racks provided on the EAPC.
- C 30 gold standard d-locks, with cables of sufficient length to secure the EAPC in at least two locations on a standard Sheffield stand.
- D 30 bicycle helmets, adhering to British Standards, with fully adjustable straps.
- E 30 lightweight high visibility vests with Velcro attachments.

# 3.2.4 Detailed specification of maintenance and warranty (10 marks)

Detail the overall warranty cover of each element below, including any restrictions, of each aspect requested:

- A EAPC.
- B Battery.
- C Panniers.
- D Gold standard d-locks.
- E Bicycle helmets.
- F High visibility vests.

In addition Illustrate the expected maintenance requirement, over two years, of the EAPC's and batteries required, assuming average use (in a bike share scheme) encompassing journeys principally comprising of city commuting to assist in ensuring the safe operation of the EAPC.

# **Pricing**

K

 $\Omega$ 

EAPC'

	3.3.1 Price for 22 EAPC's Total (delivery and set up incl.) 22no Giant Prime E+2 EAPC's	£1290.00 ea.	28380.00
	<b>3.3.2 Price for Battery</b> 22no. Giant Prime E+2 EAPC's	(incl)	
	3.3.3 Price for Accessories		
	22no. Avenir Waterproof Panniers sets (pairs)	£45.00 ea	990.00
	30no. Kryptonite Evolution Series 4 long shackle U-lock	£28.00 ea	840.00
	30no. Kryptoflex 1.2m cable lock	£5.00 ea	150.00
	30no. Lazer Cyclone Flash Yellow Helmet	£19.00 ea	570.00
	30no. Madison Hi-Viz Reflective Vest	£7.00 ea	210.00
	22no. Park Tools PMP3 Mini Pumps	£12.00 ea	264.00
$\Omega$	22no. M Part 8 function premium quality multi tool	(incl)	
	44no. Schwalbe Marathon Plus 700x35mm tyres	(incl)	
-H	3.3.4 Price for Maintenance 88no. Standard Services	£25.00ea	2200.00
$\vdash$	3.3.5 Summary price for all elements and total (ex vat)		£33604.00
$\circ$	Vat (no vat on helmets)		£6280.80
Ω Ω	Grand Total		£39884.80

Electric Cycle Company Limited 133 Granton Road Edinburgh EH5 3NJ



0131 552 0999

Safety & Visibility





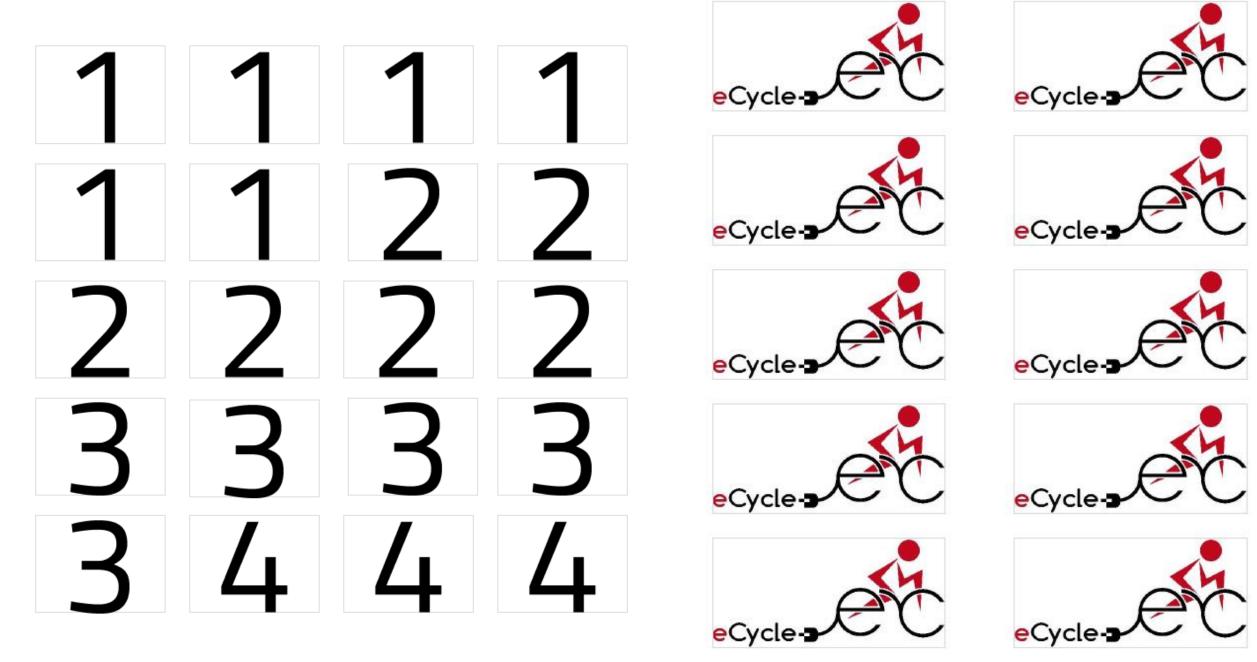
# Accessories & Security































# The oomph!





# HANDLE WITH CARE FRAGILE

IF DAMAGED, REPORT IMMEDIATELY TO YOUR ECYCLE CONTACT. DO NOT PLUG IN. DO NOT BRING INDOORS.





# **ELECTRICALLY ASSESTED PEDAL CYCLES: RISK ASSESSMENT FORM**

SCHOOL/SERVICE: Environmental Sustainability, Property & Facilities LOCATION: All Campuses and Accommodation Sites DATE: 22/12/14 (v2)

Hazards identified	People at	Existing control		Risk	÷	Further action / recommendations	Action	Action	Completed
	risk from hazards		н	М	L		by whom	by when	
Injury resulting from incorrect setup and/or faulty parts, including repair	Employee Student Public	eCycle procured from trained professional and a reputable company through a rigorous invitation to quote process following University Procurement procedures.  Six-week check carried out by a trained professional on all new eCycles procured.  Management and maintenance programme in place, including robust six-monthly checks carried out by a trained professional.  Competent University staff to check each eCycle on at least a monthly basis using guidance from Sustrans.  Competent University staff to provide training to each user to ensure they themselves are competent and using the eCycle.  eCycle users to complete an `M-check' before using the eCycle each time. Users will also be provided with a physical laminated information guide, specific to the eCycle used. Both documents to be housed at <a href="https://www.bit.ly/ENU-SO11">www.bit.ly/ENU-SO11</a> Users, through their individual Users Agreement, will be informed that they must make no attempt to repair any part of the eCycle, including repairing a			L	A film will be produced, visually demonstrating how to complete an effective M-check on the eCycle. The film will also show new users how to use every aspect of the eCycle, as a supplementary back-up to mandatory one-to-one training.	Jamie Pearson	Ongoing	Ongoing
	Injury resulting from incorrect setup and/or faulty parts,	Injury resulting from incorrect setup and/or faulty parts,	Injury resulting from incorrect setup and/or faulty parts, including repair  Employee Student Public  Employee Student Public and a reputable company through a rigorous invitation to quote process following University Procurement procedures.  Six-week check carried out by a trained professional on all new eCycles procured.  Management and maintenance programme in place, including robust six-monthly checks carried out by a trained professional.  Competent University staff to check each eCycle on at least a monthly basis using guidance from Sustrans.  Competent University staff to provide training to each user to ensure they themselves are competent and using the eCycle.  eCycle users to complete an `M-check' before using the eCycle each time. Users will also be provided with a physical laminated information guide, specific to the eCycle used. Both documents to be housed at www.bit.lv/ENU-SO11  Users, through their individual Users Agreement, will be informed that they must make no	Injury resulting from incorrect student Public  Employee Student Public  Edition In a public Public  Employee Student Pub	Injury resulting from incorrect setup and/or faulty parts, including repair  Employee Student Public  Employee Student Public professional and a reputable company through a rigorous invitation to quote process following University Procurement procedures.  Six-week check carried out by a trained professional on all new eCycles procured.  Management and maintenance programme in place, including robust six-monthly checks carried out by a trained professional.  Competent University staff to check each eCycle on at least a monthly basis using guidance from Sustrans.  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Six-week check carried out by a trained professional on all new ecycles procured.  Management and maintenance programme in place, including robust six-monthly checks carried out by a trained professional.  Competent University staff to check each eCycle on at least a monthly basis using guidance from Sustrans.  Competent University staff to provide training to each user to ensure they themselves are competent and using the eCycle each time. Users will also be provided with a physical laminated information guide, specific to the eCycle used. Both documents to be housed at www.bit.ly/FNU-SO11  Users, through their individual Users Agreement, will be informed that they must make no attempt to repair any part of the

# Bike Insurance

I (Jamie Pearson) have attempted to consider all eventualities although there may be some obvious scenario's not listed.

Wish to avoid personal insurance cover, where possible, including users buying their own insurance for using the bikes for business and personal travel.

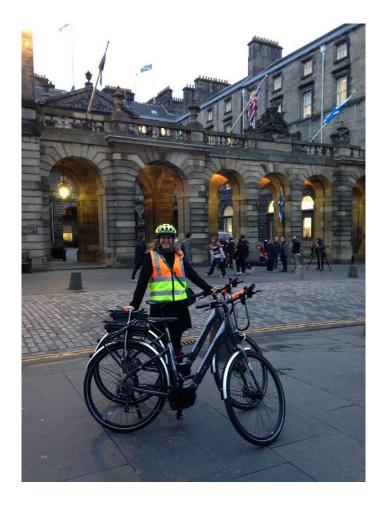
Scenario	<b>Current Insurance Cover</b>	Required Insurance Cover	Insurance Considerations	Notes - Jamie Pearson	Notes - David Campbell
Unlocked bike stolen (any location)				Assume no cover	
Locked[1] bike stolen from University property					
Locked[1] bike stolen from street or within a storage compound owned by another organisation					
Locked[1] bike stolen from personal property[3]					
Accessories[2] stolen from University property - not securely stored				Assume no cover	
Accessories[2] stolen from University property - securely stored					
Accessories[2] stolen from within a storage compound or area owned by another organisation					
Accessories[2] stolen from personal property[3]					
Bike[4] damaged by users - during use					
Bike[4] damaged by users - whilst stored					
Bike[4] damaged by person other than users - during use					
Bike[4] damaged by person other than users - whilst stored					
Accessories[2] damaged by users - during use					
Accessories[2] damaged by users - whilst stored					
Appressories[2] damaged by person other than users - during use					
Argessories[2] damaged by person other than users - whilst stored					
Accident - whilst bike is in use - fault of user - impact to user					
Accident - whilst bike is in use - fault of user - impact to other parties[5]					
Accident - whilst bike is in use - fault of user - impact to bicycle[4]					
Accident - whilst bike is in use - fault of user - impact to accessories[1]					
Accident - whilst bike is in use - fault of other party - impact to user					
Accident - whilst bike is in use - fault of other party - impact to other parties[5]					
Accident - whilst bike is in use - fault of other party - impact to bicycle[4]					
Accident - whilst bike is in use - fault of other party - impact to accessories[1]					
Accident - whilst bike is in use - fault of user - no impact to anyone or anything other than user					

- $\label{eq:continuous} \textbf{[1]} \ \textbf{Users will be provided pictorial evidence on the most effective way to securely lock the bikes.}$
- [2] Current accessories include: helmet, high visibility vest, panniers, pump.
- [3] Before storing on personal property, users will be asked to assess the availability and appropriateness of the storage area available.
- [4] Including battery.
- [5] All parties including those in or on any vehicle or any pedestrian.

# Initial Testing & Communication







# Promotional Images





# eCycle 1

# Edinburgh Further and Higher Education Transport Group

Bottom bracket PedalPlus BB sensor, cartridge



eCycle 1	F-	سمد بمامدا	h NI-	
Edinburgh Further and Higher Education Transport Gro	dinburgh Napier			
ELECTRICALLY ASSISTED PEDAL CYCLE PROJECT CH	HECKLIST			
DATE OF DELIVERY:				
DATE OF CHECKUP:				
ELECTRIC BIKE		YES	NO	ISSUES
Model Giant prime E+2 2015 model, Hybrid cycling technology (pedal assist)	•			
Size Small (16")	Any there any scratches or dents?			
Frame ALUXX- grade aluminum			X	
Fork SR Suntour NEX 63mm Travel	Any there any scratches or dents?		Х	
COMPONENTS		YES	NO	ISSUES
Handlahan dississing Totalian bas	Are they well attached?	х		
Handlebars Aluminium Trekking bar	Are the ends plugged?	х		
		T		Scratches
				and small
				dents on
				adjustable
Stem Aluminium adjustable	Any issues?		X	wheel area
Seatpost Alloy suspension	Any issues?		X	
Saddle Selle Royal Ariel	Is it well attached?	Х		
Pedals Aluminium anti-slip	Do the pedals spin easily?	х		
	Are all nuts and bolts tight on the			
Nuts and bolts	bike?	X		
DRIVETRAIN		YES	NO	ISSUES
Gears Shimano Nexus 9, 9 speed	Do all the gears change?	X		
	Do they work?	X		
Brakes Shimano M422 V brakes	Are the brakes tight?	X		
	Are the cables free from fraying?	Х	<del></del>	
Brake levers Tektro	Do the levels pull tight?	X		
Cassette (holds the chain) Shimano 18T	Any issues?		X	
	Is it lightly oiled?	x		
Chain KMC Z610HX				Some on
THAIT THIS ZO TOTAL		1		back left
	Does it have any rust?			brake disk
Crankset (holds the pedals) Giant aluminium	Any issues?		X	

Any issues?

# eCycle DAMAGE CHECKLIST



# Details of damage and associated photos should be provided on the next tabs

	r darriage arre											T -	
Date	Time of incident	Location of the	User	Bike #	Police	Details of the damage	Does the issue need	1	Is it a	Is professional help	Remedial	Cost of	Date repaired
		incident	name		Reference		attention	be fixed	warranty	needed?	action, future	repairs (if	
					#		immediately?	immediately?	issue?		risk (if	applicable)	
											applicable)		
13/11/2014		Edinburgh Napier	Jamie	EN2		Mudguard attachment to wheel popped off	No	Temporarily,		If it comes out again	The kickstand		13/11/2014
		University	Pearson			on the user's right hand side. Also minor		yes		then yes	needs to be		(for mudguard
		Merchiston				scratches on the frame.					used. However,		attachment)
		Campus									should a new		
											kickstand be		
											considered to		
											be more suited		
											to such a		
											heavy bike?		
		_											
04/03/2015	19:00	Scottish	Kasia	EN1		Battery disengaged itself without reason	It could have been a						
		parliament	Janik			even though it was pushed in firmly before	fault of the user.						
						the start of the ride during cycle ride but							
						did not fall off bike. Was able to push it							
						back in and continue use.							
02/04/2015	8:30am	22/5 Duff street	Kasia	EN2		Scratches on monitor and brake lever.	No, it is more an	No	Not sure	Not at the moment	The kickstand		
		Edinburgh	Janik			Bicycle fell over onto a wall due to being	aesthetic issue than				needs to be		
		hallway				top heavy and kickstand not being	a functional				used. However,		
						engaged.	problem. Bike still				should a new		
							works fine.				kickstand be		
06/04/2015	Time bicycle was	Annandale St Ln	Loic	EN2		Vandalism (Rear mudguard reflector torn	Yes	Unknown	No, it was	Yes	Contact police		
	locked: 4:45PM	bike barrier	Pellizzari			off; carrier/rack holder pulled off;			an accident,		to record the		
	Time bicycle was					scratches on frame; deflated tyres			not a bicycle		incident. Take		
	picked up ~8:30pm					(potentially slashed); extensive damage to			fault.		photos of the		
23/04/2015	10:00	Edinburgh Napier	Martin	EN1		Same issue with EN1 that happened on	Yes		Yes	Yes	Not to use EN1		
		University	Jamieson			04/03/15. Should have this issue					until mechanic		
						examined. Battery difficult to remove but					has had a		
						has a tendency of popping out during the					look.		
						ride- this is a risk as it can fall off the bike.							
	•		•					•			•	•	

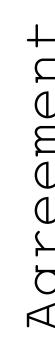


# User Guidance

- Mandatory Induction
- Information leaflet in every pannier
- User guidance booklet
- YouTube: <u>Introduction</u>, <u>accessories</u> and <u>m-check</u>
- www.bit.ly/ENU-eCycle









# User Agreement and Registration Form Edinburgh Napier University

All users of the eCycle scheme are required to complete and sign this form. A manual will be supplied during the induction which details the operation of the eCycle. This form only needs to be completed once. Please use block capitals.

PFR'	SONAL	DET	All S

Name:			
Staff/Matriculation Number	er:		
Department/School:			
Home Address			
(term-time for students):			
Phone:			
Email:			
Emergency contact inforr	nation		
(Name/Phone number):			
CYCLING EXPERIENCE	ent and competent c	evolist (circle be	low as appropriate).
If no, you will be required to	•		
Yes	No		
If you answered yes to the control of the control o		often do you us	ually cycle
Infrequently (once per mon	th) Occasionally (	once bi-weekly)	Often (weekly)
eCycle Project General Queries:	www.bit.ly/ENU-SO11	0131 455 3747	eCycle@napier.ac.uk

## TERMS AND CONDITIONS

Please read the following terms. Your signature will signify you agree to the terms.

- I am a student or a member of staff at Edinburgh Napier University.
- I confirm that I have the necessary experience and competence to ride an eCycle safely and will ride in a matter within my competence.
- I will abide by the Highway Code <a href="https://www.gov.uk/rules-for-cyclists-59-to-82">https://www.gov.uk/rules-for-cyclists-59-to-82</a> and will follow good cycling practice <a href="http://think.direct.gov.uk/cycling.html">http://think.direct.gov.uk/cycling.html</a>
- I acknowledge that I am responsible for my own safety.
- I have attended an induction. I have read and accept the Risk Assessment for the use of an eCycle. I am aware of the user manual and film available at www.bit.ly/ENU-SO11
- I certify that, to the best of my knowledge, I do not have a medical condition which might have the effect of making it more likely that I be involved in an incident which could result in injury to myself or others e.g. other road users.
- I will take all reasonable precautions to prevent loss of the eCycle that including always
  using the D-lock and cable to fix the eCycle itself to an immovable object (ideally a cycle
  stand), and within secure cycle stores where available.
- If using the eCycle for personal commute or personal travel, I will ensure there is an
  appropriate and safe place at home to store the bike securely overnight.
- I will not allow any other persons to use the eCycle whilst I have it in my possession.
- I will consider required precautions, including wearing a high visibility vest and helmet.
- I will carry out an M-check on the bike before use, every journey, and report any faults immediately to the Property & Facilities Helpdesk at 0131 455 5000. I will not cycle in the knowledge that a fault is present and not dealt with.
- I will not carry out any work to the eCycle to rectify faults which appear during use. If I
  use an eCycle with a known fault I accept I am using the eCycle at my own risk.
- I undertake that the eCycle or associated equipment, including accessories will not be used improperly and that it will be returned to Edinburgh Napier University in the same condition as it was received (save for ordinary wear and tear) at the agreed location.
- I will report theft immediately to the Property & Facilities Helpdesk at 0131 455 5000.
- I will assist the University with monitoring and evaluation of the eCycle scheme.

Edinburgh Napier University shall not be liable for any injury or loss whatsoever in relation to use or loan of an eCycle, except in relation to personal injury or death arising from the University's negligence. Any injury or loss resulting from or arising in connection with the reckless, careless or improper use of an eCycle by a user shall be borne by such a user. Users have a duty to report any damage or faults to the eCycles immediately, so that they can be maintained in a roadworthy condition.

I agree to the terms and conditions.

Signed:		Date:
Application Accepted by Edinbur	gh Napier University.	
Name (print):	Signature:	Date:

gCycle Project General Queries: www.bit.ly/ENU-SO11 0131 455 3747 eCycle@napier.ac.uk

# Launch: 31<sup>st</sup> March 2015





Press Invite 31st March: MSPs Get on Electric Bikes to Launch eCycle - Green Transport Initiative by Edinburgh's Colleges and Universities

26th March, 2015

Event: MSPs Launch eCycle – Universities & Colleges in Edinburgh Initiative Date: 10.00 am Tuesday 31st March.

Location: Roundabout at Top of Calton Hill, Edinburgh

# Press Invitation; Embargoed 10.00 am Tuesday 31<sup>st</sup> March

You are invited to the roundabout at the top of Calton Hill to join Alison Johnstone MSP (Scottish Green Party), Sarah Boyack MSP (Scottish Labour Party), Jim Eadie (SNP) with Cllr Russell Imrie (Chair of SEStran) on their electric bikes as they officially launch an eco-friendly cycle sharing scheme for Edinburgh's Colleges and Universities.

The eCycle initiative involves six of the City's leading Colleges and Universities, together with key partners. The bike sharing scheme, with added battery power, is one of a number of projects the group is investigating as it seeks to lessen the environmental impact of travel around their various campuses and offices across Edinburgh.

The Edinburgh Further and Higher Education Transport Group (EFHETG) is focussed on all aspects and modes of travel linked to their sector. Edinburgh College, Edinburgh Napier University, Queen Margaret University, Scotland's Rural College, Transition Heriot-Watt and The University of Edinburgh are institutional members, representing a community of over 130,000 people. SEStran and Sustrans provide strategic support to the Group.

EFHETG has bought 28 electrically assisted bicycles (plus an electric cargo bike) to form the innovative eCycle Scheme. Utilising the eCycles, the group will encourage members of the further and higher education community to consider cycling as an alternative to single car occupancy or public transport for personal and business journeys. The eCycles will be managed locally at each institution and will be available on a shared basis with training provided if required. Users will be provided with locks, panniers, a high visibility vest and a helmet.

The project is supported by a generous grant of £25,000 from SEStran with match funding by the Group. Chair of SEStran, Cllr Russell Imrie noted

"SEStran is proud to support the Edinburgh Further and Higher Education Transport Group's eCycle scheme. The Scheme is a great example of what working in partnership can achieve. Cycling for shorter journeys is great exercise, and helps tackle traffic congestion on the region's roads and to reduce our carbon footprint. Electrically assisted cycles are also a great way for those who are new, or those returning to cycling, to give it a go".

Alison Johnstone, Co-Convenor of the Cross-Party Group in the Scottish Parliament on Cycling says:

"Cycling should be an easy and attractive option for a wide range of people, and I'm convinced that electric bikes are going to have a much bigger role in the coming years. I'm delighted that our universities and colleges are leading the way again and this project will see many benefits for individuals and the city."

Jamie Pearson, Environmental Sustainability Manager at Edinburgh Napier University, noted:

"I'm delighted with the financial support SEStran and our own institutions have provided towards the eCycle Scheme. Through travel surveys and discussions within our sector we're very aware that many members of our community would be willing to try cycling, or cycle more, with a bit of additional resource and support. Users will still have to physically pedal the eCycles but the motor and battery

attached will boost confidence, add support to increased mobility and, from personal experience, make going up hills an absolute breezet."

The Scheme will act as a test-bed to provide more information on cycling within the further and higher education sector. It will aid local and national strategies to increase cycling and, as part of institutional travel plans, support the reduction of carbon emissions associated with personal and business travel in and around Edinburgh.

## Notes for Editors:

SEStran is the South East of Scotland Transport Partnership.

- · For more information on the Scheme, visit each institutional website.
- All users of the eCycles must register at their home institution.
- Membership varies at each institution but members must commonly be a staff member or student.
- The Scheme is not open to members of the public.
- The eCycles were procured through a formal 'Invitation to Quote' process.
- The Scheme gained support and knowledge exchange from the team at Sustrans, specifically through the e-bike project within the Cairngorms National Park.

# **ENDS**

## Issued by:

Ken Rundle SRUC Communications Scotland's Rural College Peter Wilson Building West Mains Road Edinburgh EH9 3JG Scotland | UK

T: +44 (0) 131 535 4196 | M: +44 (0) 771 007 9401

# Institutional Responsibility

Accessibility Storage

Booking

Cleaning

Communication

Day-to-day Maintenance

Insurance

Management

Loan Conditions

Risk Assessments

Security

Training

User Agreement



# Future Development

- The project started as an experiment.
- University of Edinburgh have developed a new scheme, procuring 50 regular bicycles at Pollock Halls of Residence.
- Edinburgh Napier, through a new student accommodation site and associated Section 75 agreement have six additional regular bikes.
- Abellio Trains (Scotrail contract) and JCDecaux
- Ongoing study by The City of Edinburgh Council into a city wide bike share scheme.
- Ensuring the eCycle network keeps developing...

