Carbon and Procurement

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Angus Warren, Chief Executive, APUC

Andy Laszlo, Head of ICT Services, Glasgow Kelvin College

Peter Hayakawa, Procurement Policy Officer, University of Edinburgh

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Angus Warren

Chief Executive

Advanced Procurement for Universities and Colleges (APUC)

Responsible Supply Chains

EAUC Scotland Conference

December 2019

Agenda

1. **APUC Intro and Collaborative Responsible Supply Chain Activity (Angus Warren)**

2. **Glasgow Kelvin College Reduce Carbon Footprint, Get Faster PCs & Save Money! (Andy Laszlo)**

3. **University of Edinburgh Procurement Carbon Reporting and Net Zero by 2040 (Peter Hayakawa)**

APUC was formed in 2007 as the **Centre of (Procurement/Supply Chain) Expertise** for the University & College sectors in Scotland in response to the 2006 McClelland Review of Public Procurement in Scotland

Reshaped in 2009 following "strategic dialogue" with the HE and FE sectors and appointment of new Chairman and Chief Executive

It is jointly owned by, and operates to serve all Universities & Colleges in Scotland - all with equal say in how APUC is governed

Works in collaboration with the sector across the UK on various forums

- APUC operates as a Teckal & CSG compliant, shared service organisation

- APUC operates a lean business model tailored and constantly adapted to ensure best delivery of support for Universities & Colleges

- APUC is main interface with Government(s) on Procurement matters (various groups)

- Three Core Team Offices – Stirling (HQ), Edinburgh & Glasgow – with staff also embedded within over 25 institutions across Scotland.

APUC – scope Dec 2019

- Collaborative Contracting

- Institutional Procurement Services

- eSolutions (procurement systems)

- Development and Sustainability

- Corporate Support (including for other shared services)

- Shared Services Catalyst

Overview of Current and Future Responsible Supply Chain Collaboration

- Publication of Responsible Supply Chain Category Guides

- Development of a <u>Supply Chain Code of Conduct</u> (SCCoC) jointly with institutional Heads of Procurement, Sustainability Officers, Student Associations, the NUS, People & Planet and EAUC – and encouraging adoption of it by member institutions and wider afield (e.g. LUPC)

    - currently being reviewed and updated to provide greater emphasis on climate change

- Development and operation of the "Sustain" supply chain assessment programme to test compliance with the SCCoC

- Development and ongoing management of new for 2019 Responsible Procurement Action Plan

- Creation of Responsible Procurement Champions roles, now in place in all core team categories and being adopted across institutions / regions

- Being a founder member of Electronics Watch and encouraging all Scottish Universities and Colleges to join as affiliates (members) – Electronics Watch is already bringing positive change to the lives of thousands of workers in our electronics supply chains

- *Scottish HE/FE was the first entire sector within any country to join EW*

Delivering benefit through Partnership

Collaborative Responsible Supply Chain

Careful coordination will be required across mobilised climate emergency focussed groups:

- HEPA Responsible Procurement Group – Climate Sub-group / HEPA/EAUC Scope 3 Review

- Climate Emergency Procurement Working Group

- Scottish Government Procurement Climate Forum

- CC Responsible Procurement Action Plan

- Plus procurement membership of multi-discipline Universities Scotland and Colleges Scotland/CDN responsible business / climate action groups

❖ Highlight climate change reduction content and options already in existence in framework agreements and facilitate the awareness of these among professional groups and with institutions

❖ To identify the top 5-7 Priority Impact Areas of Climate Change (PIACCs) in the supply chain

> For each PIACC, create simple, focussed, concise guides:
>
> ❖ by obtaining an understanding of effective work going on in the sector and beyond already and to develop / obtain case studies for sharing across the sectors.
>
> ❖ to identify short term permanent changes that can be made now for each PIACC area / sub-area along with longer term objectives
>
> ❖ to identify aspects that may need liaison with other parties where the group can collectively represent the sector and seek change in policy, regulations etc (and if applicable engage other sector bodies and individuals in influencing the desired change(s)).

❖ To suggest what good looks like / draft codes of good practice / objectives where none exist

❖ To identify resources, explore funding sources etc to assist in delivery of the work

❖ Work with existing groups (HEPA/EAUC etc) to ensure that duplication of effort does not occur and to identify known sources of supply chain relevant climate change data and guidance

Questions on Collaboration

Next: Glasgow Kelvin College Reduce Carbon Footprint, Get Faster PCs & Save Money! **(Andy Lazlo)**

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Andy Laszlo

Head of ICT Services

Glasgow Kelvin College

Reduce Carbon Footprint, Get Faster PCs & Save Money!

Andy Laszlo

Director of Digital
Glasgow Kelvin College

Why are computers slow???

- Many reasons, but at the end of the day your computer can't handle the software it's running.
  - PCs need:
    - Lots of Memory
    - Fast Disk Drives
    - Fast Processors

- How do you make a PC faster?
  - Buy a new PC
  - Ask IT to investigate
  - Upgrade components

College scenario

- 400+ lab and shared PCs that are 6 years old and complaints that they are slow

- Could we buy new PCs?
  - Cost for 400 new devices = £133,200
  - Environmental cost = vast
    - Building components, shipping components, manufacturing plant, shipping from Far East, electricity usage, packaging, recycling…….

- Can we do anything else?
  - Ran pilot to upgrade PCs with
    Solid State Hard Drives (SSD)
    & upgrade Memory

Hmmm….

HDD vs SSD

SSD

Performance improvements in numbers

- Powered Off to login screen: >5 seconds

- Reboot times: 20 seconds

- First time login times: 2.09 minutes > 29 Seconds

- Feedback has been highly positive across all users

- Also, removed log off and restart buttons so PCs are shutdown at the point of student walking away from device – reducing power usage
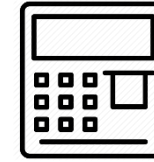
WHOOSH!

Decision & Outcome!

- Upgrade 400+ PC's
  - Saved £118k
  - Saved carbon emissions from the cost of procuring new devices
  - Reduction in electricity usage by removing logoff buttons
  - Faster PCs
  - Happier students
  - Delighted Finance Director!

Thank you for listening!

Questions?

Andy Laszlo
alaszlo@glasgowkelvin.ac.uk

Next: University of Edinburgh Procurement Carbon Reporting and Net Zero by 2040 (Peter Hayakawa)

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Peter Hayakawa

Procurement Policy Officer

University of Edinburgh

Procurement carbon emissions

Refining scope 3 carbon reporting at the University of Edinburgh

Peter Hayakawa

Procurement Office and SRS

Zero by 2040 commitments

- adopting best practice and seeking to take the lead through our carbon and sustainability reporting

- refining and expanding our reporting of Scope 3 carbon emissions: staff and student commuting, procurement, international students

The University will develop carbon reporting capabilities in order to deliver refined data and a sound evidence base for action, applying a whole institution approach that includes harnessing the power of our students in living lab projects to solve reporting challenges

Carbon Reporting Project 2018-2020

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1. Researching best practice – SRS staff research volunteer; Procurement Office intern; other universities using spend-based approach but GHG protocol guidance …

2. Scoping data – what do we have/can we get? Can our Ecometrica reporting platform incorporate new scope 3 categories and calculate emissions (yes!)

3. Methodology – considering 1 and 2, what is the best approach for University of Edinburgh to take?

Procurement pilot project – testing non-spend approaches

A spend-based methodology is recommended by HESA. We will test non-spend methodologies based on GHG Protocol guidance (e.g. supplier specific, hybrid and average data), in areas where data are most robust: **Labs, Food, Construction**. We will include comparison of emissions calculated using these methods to spend method calculations.

- **Calculate it differently** (with GHG methods), working with suppliers to gather required data → **illustrate potential savings, and conduct comparison with spend approach**

- Specify key business partners correlated with main emissions

- Provide carbon savings and consider innovative off-setting activities related to sequestration and biodiversity that align with our biodiversity strategy and its tools (GI mapping application)

Supported by students & consultancy work

Student project objectives:

- Work with different internal departments and external companies
- Focus on Logistics, Food, Construction
- Apply GHG Protocol guidance to determine the respective emissions
- Identify and compare differences in outcomes between non-spend and spend approaches
- Determine highest saving potentials with respect to carbon savings and financial aspects

Ecometrica consultancy project idea:

To provide an outline of carbon emission figures based on procurement spend data across 15 categories

Future work

- Labs procurement contract
- Guidance and tool development?
- Sharing and collaboration with other universities

Thank you!

EAUC-Scotland Conference

The Elephants in the Room

Tuesday 26 November 2019
The Lighthouse, Glasgow

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#EAUCS2019