

**Date:** Wednesday 6th April 2022  
**Time:** 10:30–12:30  
**Venue:** Virtual

## **MINUTES:**

### **Energy & Water Management Topic Support Network Meeting**

#### **Attendees:**

Alistair	Cameron	ECD Architects
Amy	Ledger	Advanced Procurement for Universities and Colleges (APUC)
Amy	Gove-Kaney	University of Stirling
Andy	Anderson	Advanced Procurement for Universities and Colleges (APUC)
Barrie	Stewart	Glasgow School of Art
Billy	Grace	Dundee and Angus College
Catriona	Kinghorn	Oberlanders
Chris	Larkins	Heriot-Watt University
Claire	McCulloch	SRUC
David	Charles	University of Strathclyde
David	Jack	The University of Edinburgh
David	McEwan	IES
Dean	Drobot	The University of Edinburgh
Derek	Cowie	Advanced Procurement for Universities and Colleges (APUC)
Derek	Mitchell	University of Dundee
Eoin	O'Neill	Faithful & Gould
Evelyn	Rae	Scottish Government
Gilbert	Valentine	University of Stirling
Jamie	Pearson	Edinburgh Napier University
John	Byrne	Keir Construction
John	Thorne	Glasgow School of Art
John	Walker	Queen Margaret University
John	Wincott	Fife College
Lara	Balazs	Buro Happold
Martin	Webb	Edinburgh College
Michael	Pollock	IES
Peter	Adair	Faithful & Gould
Robert	MacGregor	The University of Edinburgh
Rory	Hill	EAUC
Sam	Haston	Buro Happold
Sean	Gillespie	SRUC

	SUMMARY OF DISCUSSIONS	ACTIONS
1	<p><b>Welcome, Apologies and Introductions</b>  <i>Dean Drobot, Co-Convener, University of Edinburgh</i></p> <p>Everyone was welcomed to the event and asked to introduce themselves.</p>	
2	<p><b>Passivhaus EnerPHit on the FHE Estate: Opportunities &amp; Constraints</b>  <i>Alistair Cameron, ECD Architects</i></p> <p><a href="#">A recording of the presentation and slides are available here</a></p> <p><u>Questions &amp; Discussion</u></p> <p><i>Did the Strathclyde Uni project go through a Framework and tender opportunity where you were successful? We have most Public Bodies routing through the Scot Gov Framework but now developing guidance on how buyers can consider different opportunities at each stage of the procurement journey so interesting to hear the process that took place and from a supplier/consultant view so we can look to enhance the Framework further and feedback?</i></p> <p>It was through Public Contract Scotland due to the scale but ECDA were already on the Strathclyde framework.</p> <p><i>Some older buildings also contain substantial asbestos elements - how does that affect your recommendations?</i></p> <p>Similar to any refurb you may come across asbestos and need to consider in terms of decant and long term planning strategy.</p> <p><i>Is avoidance of summertime overheating becoming a more significant item than wintertime heating energy demands for buildings going forward? IPCC reports suggest land average temperatures will be quite a bit higher than global average increase. Important to have passive cooling facility - open window, shading etc.</i></p>	

	Responses vary significantly so every building has to be treated in a bespoke manner. It's so important to do the analysis and understand your building before you start working on the improvements	
3	<p><b>A comparison of Passivhaus Planning Package Modelling vs Dynamic Simulation Modelling: Building Retrofit</b> <i>David McEwan &amp; Michael Pollock, IES</i></p> <p><a href="#">A recording of the presentation and slides are available here</a></p> <p><u>Questions &amp; Discussion</u></p> <p><i>Q. What is the cost of this kind of surety (for say a 'typical' building) and do we know if that could be covered under Scot Gove GPSEDS feasibility grant?</i></p> <p>All of the work we undertook at Edinburgh was supported by LCITP DEVES support (three separate project bids) and SFC grant funding streams. Not all costs were covered, but it certainly helped.</p> <p><i>Q. How did the modelled savings for interventions (e.g. 1 ACH @ 50 Pa) compare between PHPP and IES outputs? Was there a significant difference?</i></p> <p>There were quite significant differences early on between the two models. Generally found that base cases were in agreement. With the improvement applied the trend was consistent but the extent of the savings did vary a bit. There is quite a bit of variation in the calculation methodology that would impact those predictions.</p>	
4	<p><b>Energy Masterplanning &amp; Net Zero – Retrofitting on the FHE Estate</b> <i>Lara Balazs &amp; Sam Haston, Buro Happold, Catriona Kinghorn, Oberlanders, Eoin O'Neill, Faithful &amp; Gould</i></p> <p><a href="#">A recording of the presentation and slides are available here</a></p> <p><u>Questions &amp; Discussion</u></p> <p><i>Q. In terms of average decant costs what does this cover off site on site etc and how is the fabric interventions worked within the procurement process.</i></p>	

	It is very specific to each building, how many people you've got and what type of building you need to decant them to, what your regulations are, the distance from your facility. To get an accurate data driven decision making tool you have to be covering costs that reflect what you want to do.	
<b>5</b>	<p><b>EAUC Update</b></p> <p><i>Jill Burnett, Carbon &amp; Estates Project Officer, EAUC-Scotland</i></p> <ul style="list-style-type: none"> <li>• <a href="#">EAUC/ AUDE webinar on climate and construction on the 10th May – Dean will be speaking about the Climate Emergency Collaboration project that the University of Edinburgh led.</a></li> <li>• <a href="#">Construction TSN 12th May – We will be hearing from Fife College on their Net Zero Public Sector Buildings Standard pathfinder project in Dunfermline.</a></li> <li>• <a href="#">Green Gown Awards 2022 now open for applications – new category for Diversity, Equity &amp; Inclusion in Sustainability.</a></li> <li>• <a href="#">Heat in Buildings Development Fund now open for applications – up to £50k per project is available to help complete investment grade business cases and progress projects to capital readiness.</a></li> </ul>	
<b>6</b>	<p><b>Next meeting ideas</b></p> <p>Currently looking at dates for a Heat Networks meeting. Other ideas for future topics include:</p> <ul style="list-style-type: none"> <li>• New Technical Standards</li> <li>• Air Source Heat Pumps – any suitable case studies of installation at scale?</li> <li>• Future Energy Costs</li> </ul> <p>Please e-mail any further suggestions for topics or speakers at our next meeting to <a href="mailto:jburnett@eauc.org.uk">jburnett@eauc.org.uk</a>.</p>	E-mail suggestions to JB
<b>7</b>	<b>Thanks and close</b>	