



**Environmental Sustainability Working Group Meeting
held 15:00-16:30 Wednesday 10th February 2020 via
WebEx**

In Attendance:

Katie Atherton	Cementation Skanska
Dafydd Belshaw	Bachy Soletanche
Angela Blakesley	Van Elle
Craig Burton	Pile Designs
Jack Clayton	Rock & Alluvium
David Clement	Roger Bullivant
Luke Deamer	Keller
Thomas Keaveny	Foundation Piling
Alice Liddell	Expanded
Sam Nicole	Central Piling
Stuart Norman (Chair)	Keltbray
Tomasz Paprocki	BAM Ritchies
Alasdair Revie	FK Lowry
Ash Rogers	Aarsleff
Colin Ryan	Bachy Soletanche
Benjamin Smith	JRL
Matt Smith	Expanded
Paul Smith	Roger Bullivant
Nirmal Tiwari	Ex - BBGE
Andrew Waghorn	Murphy GE

Present:

Ciaran Jennings	FPS Secretary
Isabel Jennings	FPS Secretariat

Owner	Actions	Date Due
FPS Secretary	Organise a conversation with the Plant and Technical committees.	
Stuart Norman	Stuart to write a scope of the talks with plant and technical.	
FPS Secretary	Organise a meeting between AM Plant Manufactures, Plant committee and Sustainability group. Ask Warren Arnold to highlight some current best practices and what progress is likely to be made in the next 5 years.	
Jack Clayton	Send database work on the carbon of different concrete types	Next Meeting
Stuart Norman	Finish, and circulate, first draft of the new sustainability Charter and roadmap	Next Meeting
Isabel Jennings	Circulate audit schedules with next meeting papers	Next meeting
FPS Secretary	Organise low carbon concrete webinar for later in April	April 2021
Stuart Norman	Contact Heleni Pantelidou about presenting at the low carbon concrete webinar	
Sam Nicole Kiro Tamer	Share an overview of HVO lessons learnt & prepare a webinar presentation on energy best practices (to present later in the year).	Next Meeting
Stuart Norman	Share Kiro's contact information with Sam.	
Isabel Jennings	Put a call out for volunteers on the energy and water best practice webinars	Next Meeting
FPS Secretary	Organise for Ben Smith to attend the Tech Committee to talk about pile design/testing	25 th February

Minutes		
1.	Apologies Sharon Foley (Martello/Franki), Laura Williams (Keller), Warren Arnold (Bauer Equipment)	
2.	Industry Update a) EFFC Sustainability WG (see Section 3B)	
3.	Task Groups/Document Progress A. Carbon Baselineing Stuart noted that at the last meeting the group had a long discussion about baselining carbon emissions. Stuart commented that the group should aim to have a simplified baseline by the end of the year so that they can start setting reduction targets. Stuart reminded the group of his proposition for the calculator to be used on every tender over £1million. It was noted that quick and easy measures would also be drawn up for smaller projects with varying piling methods. Stuart explained that he has been pulling together some baseline criteria which he would send across to Luke to review – as he has volunteered	

	<p>to help with this project. It was agreed that volunteers would then be asked to run calculations to test them.</p> <p>Nirmal noted that, after the last meeting, he sent Stuart the details of a programme developer who worked with BBGE. The developer suggested the group create a simple excel based estimating programme which could then be included in all (excel based) estimating packages. Stuart thanked Nirmal and agreed that this could be a good end-goal for the project. Stuart also noted that there had been previous discussion about adapting the EFCF Carbon Calculator (CC) into a web-based tool, but no decision had been made yet. Luke commented that Carbonne 4 have recently released the password which allows people to access the EFCF calculator’s functionality, meaning it can be linked to estimating packages.</p> <p>Stuart shared his screen to show his initial baseline work, commenting that he would finish it by the end of the week and send on to Luke . Stuart commented that there will be accompanying notes which outline how each standard was decided.</p> <p>Jack Clayton commented that he has looked at different types of concrete to try and baseline the carbon for each mix-type. It was agreed that this would be a beneficial resource and that Jack should send to Stuart after the meeting. Ben suggested that they look at the embodied carbon footprint database from Circular Ecology. Luke noted that this database, amongst others, is already included in the EFCF CC. Luke commented that the value of the EFCF CC is that it incorporates various assumptions as opposed to just concrete. Ben noted that if you just want a quick number you can go straight to that database. Stuart agreed with Luke commenting that they want to try and capture the whole process. Ciaran added that the EFCF CC was created with tenders in mind.</p> <p>Stuart concluded that the more information inputted into the spreadsheet, the less work for the user. Luke agreed noting that there will be a lot of assumptions which need to be incorporated (e.g. engine type, % recycled steel, cement type etc.) and then compared with the Life Cycle Assessment within the EFCF CC.</p> <p>It was agreed that, after the baselines are confirmed, volunteers will be asked to complete a simple set of calculations.</p> <p>B. Charter Review</p> <p>Stuart commented that he has started work on the Charter review and has started drafting a roadmap to sustainability. Stuart noted that his roadmap takes into account the UN SDG’s and pledges to net-zero by 2050. Stuart commented that he wants realistic targets and ideas to help move members forward – e.g., offsetting travel and reducing embodied carbon. Stuart noted that he intends to have this draft</p>	<p>J Clayton</p> <p>S Norman</p>
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	<p>Charter and roadmap circulated for comment by the end of the month.</p> <p>Luke commented that the EFFC group are in the process of creating a similar roadmap from the UN SDG's. Luke noted the group are taking a <i>what</i> (the individual SDGs and how they're relevant to geotech companies), <i>why</i> (value, relevance and worth to internal / external stakeholders, legislation etc) and <i>how</i> (roadmap and best practices) approach to this. Luke explained that the EFFC group are splitting their roadmap into a 1-year roadmap, for quick wins, and a 5-year roadmap for longer term-goals.</p> <p>Luke commented that FIEC have been compiling a list of best practices from across Europe. Luke suggested that the group could pull down these quick wins and integrate them into the FPS Charter, Audit etc. Stuart suggested that the group should also look to collate a series of best practices from across the industry. Luke, after momentarily being distracted by Ash's cat, agreed with Stuart and committed to help create a form to circulate to the group.</p> <p>Turning back to webinars, Stuart suggested sharing these best practices would be a good topic. Ciaran suggested that collaborating with the EFFC to get some European perspectives would be interesting too. It was also noted that the charter would be a good topic. Luke suggested that the group should create a document defining what sustainability means to the FPS and then another outlining the roadmaps.</p>	Ciaran/Luke
4.	<p>FPS Sustainability Audit</p> <p>Ciaran stated that the 3 yearly FPS audit schedule is currently up for review. Ciaran explained that Steve Hadley is leading the audit update but that the SWG would be best placed to decide on the environmental sustainability questions.</p> <p>Luke noted that there are sustainability questions throughout the different sections, as opposed to there being one whole section. Luke suggested that it might be worth re-organising and addressing (environmental) sustainability in its own section.</p> <p>It was agreed the schedules be circulated ahead of the next meeting for people to review.</p>	I Jennings
5.	<p>FPS Sustainability Webinar Series</p> <p>Stuart stated that the first webinar will be a presentation on low carbon concrete by himself and Andy Waghorn. Stuart explained that they have already pulled together a 30–40-minute presentation on Earth Friendly and Cemfree concrete. Stuart commented that Heleni Pantelidou will also be welcomed to present – as discussed at the last meeting.</p> <p>Stuart noted that other potential webinar topics suggested at the last meeting were best practices on energy (see also Section 6) and water</p>	S Norman

	<p>could become an issue - retrofitted machines are designed for using traditional diesel, as opposed to greener alternatives, so the filter mediums may not work on the new fuels as intended.</p> <p>Craig Burton commented that the Institution of Structural Engineers has an upcoming (free!) webinar on their new structural carbon tool which is similar to the EFFC CC (18th March).</p> <p>Katie Atherton explained that she has been working on reducing construction waste to landfill and has been having problems with empty grout and cement bags skewing her figures. Katie noted that she is actively working with James Vance (head of environment at Travis Perkins) on potential solutions and asked if anyone would want to work on this too. Katie noted that one thing they have done so far is look at bags which can go into the grout mix. Katie commented that they are currently looking to do trials to see whether this impacts the structural integrity of the mix.</p> <p>Ash stated that he would look into it at Aarsleff and feedback. Ciaran suggested that some of the Ops committee might know. Katie commented that it might not be a problem people have met but at Cementation they have a <2% construction waste to landfill so has been on her radar for the past 2 years. Alice asked why they couldn't be sent to waste to energy. Katie noted that they had looked into it but as the locations are often remote the cost and logistics are too high. Luke commented that reusable silo's may be a potential option and explained he would be happy to help with this project.</p>	
7.	Next Meeting: To Be Confirmed	