

Date: Tuesday 12th July 2022

Attendees: James Cadman (Action Sustainability), Imogen Player (Action Sustainability), Alex Pinnington (Barratt Developments plc), Joanne Ashton (CHC), Geraint Rowland (Costain), Toni Holloway (Environment Agency), Chris Matthew (Flannery), Mark Anderson (GAP Group), Andrea Davidson (HS2), Luca Mee (HW Martin), John Leader (Ide Systems), James Hahessy (JLG Industries), Michael Bandy (Kier), Gemma Tovey (Lovell Partnerships Ltd), Emery Roosburg (L Lynch), Lujane Al-Shaibani (L Lynch), John Pirie (MHM), Ian Walker (National Grid), John Daulton (Pro Rail Services), Joshua Taylor (Selwood), James Sinnock (Selwood), Camila Bernal (Skanska), Mark Lawton (Skanska), Amelia Woodley (Speedy), Andy Connor (Speedy).

Summary of Actions and Notes from the Plant Category Group Meeting

Plant Category Group – Introductions and outstanding actions		
No	Action/Notes	Owner
1	Welcome and Introductions	
2	<p>Updates</p> <p>The Minimum Standards & Charter</p> <p>The Minimum Standards V2.1 are now live and are publicly available here - accessible through the Plant Group Page. The Charter is also available here. The process for reporting against the charter was explained again, with the full detailed information available in the Minimum Standards V2.1.</p> <p>The School is currently reviewing all evidence information passed over by those organisations who wish to be signatories. Some organisations have already received confirmation of their charter status.</p> <p>In order to become a signatory, the process is:</p> <ol style="list-style-type: none"> 1. Decide you would like to be a Signatory to the Charter 2. Gather evidence against the 4 sections of the Charter for your organisation for the preceding 12 months: i) Engine standards ii) Engagement iii) Training and education 4) Innovation. You need something in each of the 4 sections to reach at least Bronze; you can't be a signatory to the Charter is Bronze is not achieved 3. Present evidence to the School for assessment. The School will ask for any additional information or clarifications. 4. Status awarded and communicated to the Signatory. External communications are discussed with Signatory. 5. On the anniversary of becoming a Signatory, Partner will provide updated information for preceding 12 months <p>As all partners collect information in different ways, evidence can be in any form – e.g., spreadsheets, PowerPoints, news publications, engagements, trial days.</p>	

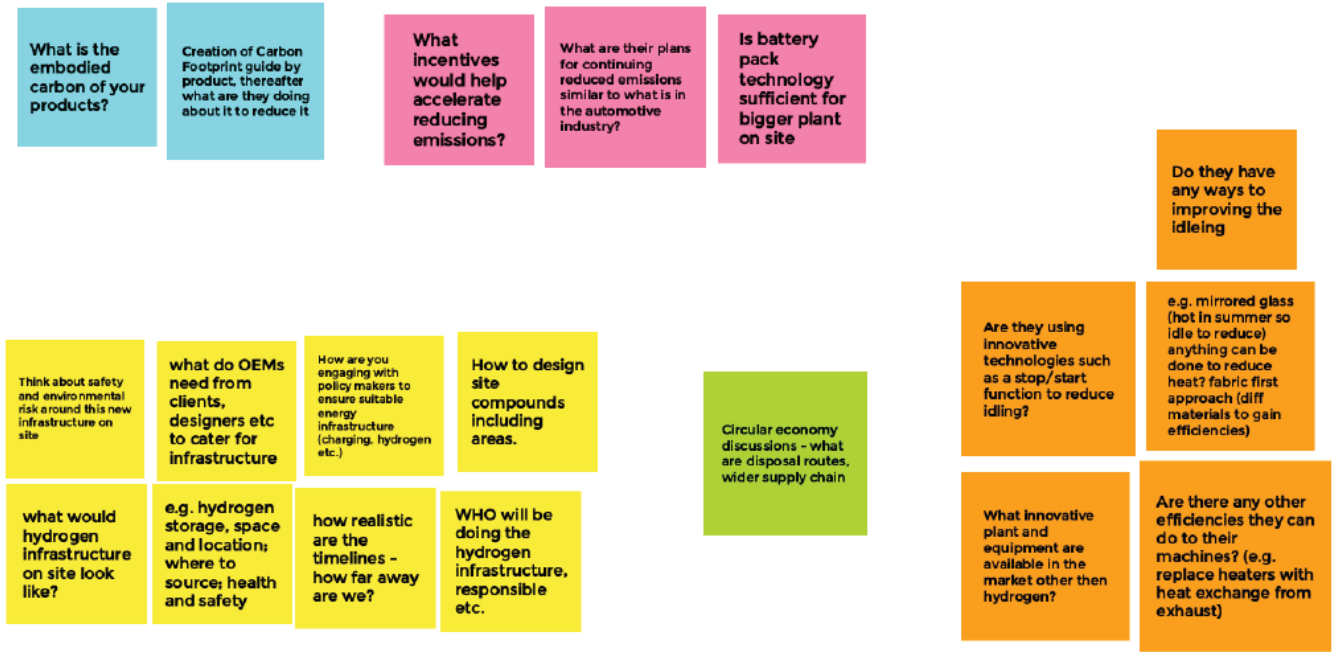
	<p>The School will be sharing information on social media when it has been confirmed with the signatory. The signatory is then able to use a choice of badges to be used externally, for example you can use it on social media, within communications, with clients etc.</p> <p>Learning and Resources</p> <p>The School is currently developing a video focused on the need to reduce idling and the associated benefits. This is being developed with HS2 and their partners and will be released soon.</p>	
<p>3</p>	<p>Cost and Carbon Calculator</p> <p>Imogen presented the second draft of an interactive carbon calculator for discussion. The aim is to provide the user with a calculator to understand the whole life approach when procuring and hiring equipment, including carbon and cost.</p> <p>The calculator can be used in three different approaches:</p> <p>Option A: Market Average Standard Approach</p> <ul style="list-style-type: none"> • Used to get an average market understanding. • Product technical specifications already present. User inputs information on: hire cost; hire period; delivery cost; hours in use per day; fuel cost; power source; engine stage. <p>Option B: Tailored Approach</p> <ul style="list-style-type: none"> • Used to get cost and carbon outputs for a specific product. • User must input product technical specification. User inputs similar information to Option A, but must also input: kW rating; fuel usage l/h. <p>Option C: Detailed Tailored Approach</p> <ul style="list-style-type: none"> • Used to get <u>detailed</u> cost and carbon outputs for a specific product. • User must input product technical specification information as in Option B, but must also additionally input: delivery cost of fuel; time to refuel; number of times refuelling is required; labour cost per hour; labour cost. <p>In the last meeting, the group recommended contacts to collect information from to be input into the calculator. Since the last meeting, the School met with these contacts to obtain the information. The next iteration of the calculator, containing information provided from members of the plant group, will be demonstrated at the next meeting in September.</p>	
<p>4</p>	<p>Roadmap for Decarbonisation</p> <p>Lujane Al-Shaibani, Sustainability Data Analyst at L Lynch is doing a masters' project focusing on the roadmap for decarbonising plant and equipment to 2050. The output will include a handbook for reporting requirements for plant companies (e.g. scope 1, 2 and 3 carbon emissions), what technologies are</p>	

	<p>available, and what they should be focusing on. This aligns with a request the group had previously to develop this content.</p> <p>Lujane presented her dissertation topic and asked the group for their input and advice.</p> <p>The group broke into smaller breakout groups and answered the questions:</p> <ol style="list-style-type: none"> 1. What questions would you like to ask OEMs? Specifically discussing with OEM sustainability roles? 2. What would you like to see in the roadmap? 3. How ready are your sites (and your customers' sites) to accommodate electric plant? 4. Can you share OEM engineering and sustainability contacts? <p>The outputs of the exercise are attached in the appendix.</p> <p>Lujane will use these outputs to guide her dissertation, sharing the findings once complete, expected September 2022.</p>	<p>Group: Please share OEM contact details with Lujane (lujanea@l-lynch.com) for her to set up meetings and obtain information from them</p>
<p>5</p>	<p>AOB</p> <ul style="list-style-type: none"> • No AOB was raised. 	
<p>6</p>	<p>Next Meeting</p> <ul style="list-style-type: none"> • Tuesday 27th September 2-4pm, online 	

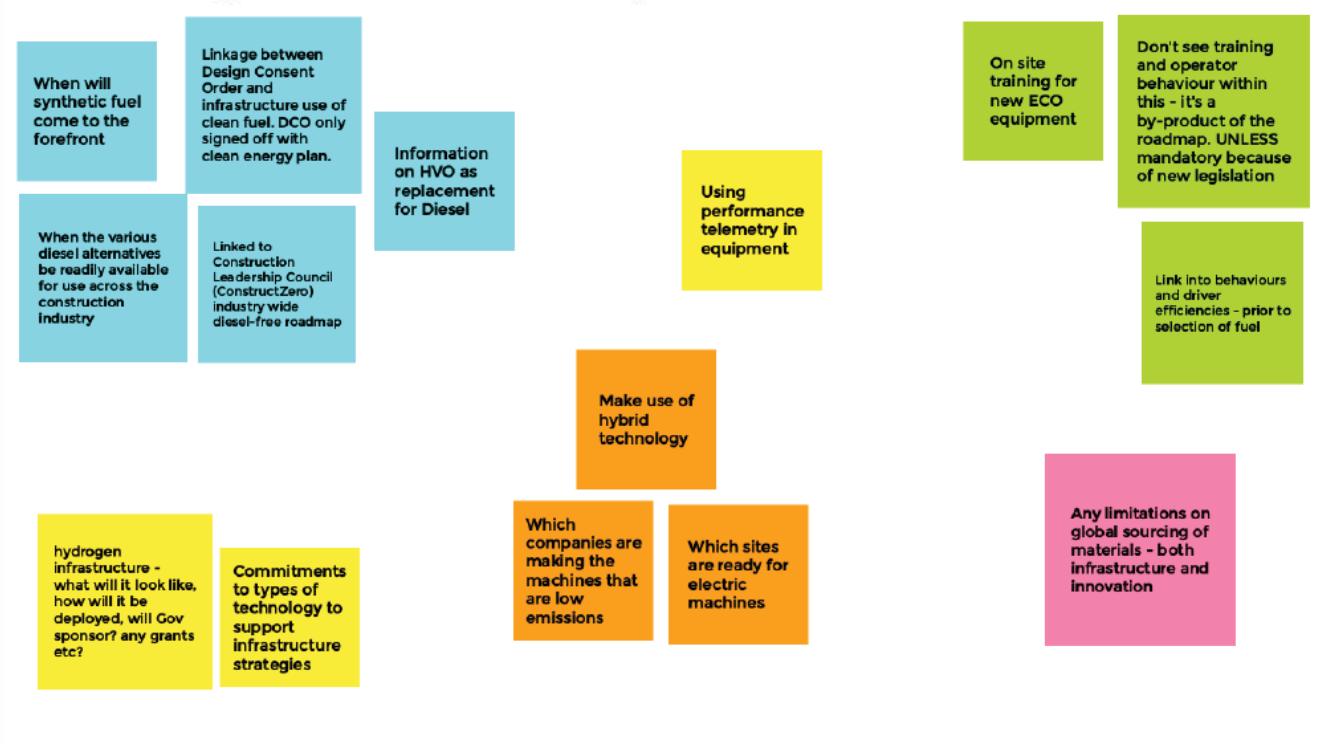
Appendix

1. What questions would you like to ask OEMs?

- Specifically discussing with OEM sustainability roles?



2. What would you like to see in the roadmap?



3. How ready are your sites (and your customers' sites) to accommodate electric plant?

Some small pockets of isolated compliance but generally sites are not geared up for electrification

Infrastructure on site to make it work

It is a growing trend, clients are introducing more electric plant as the technology and support equipment evolves

Hydrogen is not a short term solution so plenty of development has gone in electric such as Solar Hybrid Generators up to 500kva next year

Electric realistically not the way forward - hydrogen more. Consider changing this question to hydrogen instead.

Very few have thought about this, 45kva battery storage but often generators being used - when hiring larger equipment grid connection is really required

electric - would need 500 miles, especially for large vehicles However for smaller plant electric is the way forward

Very few mainly the powerstations and quarries the rest are using generators

when tendering&client asks for innovation - who is responsible for cost of infra? client or main contractor?

temporary sites - hydrogen not necessarily applicable - e.g. won't have infra for 1 night

Only 2t and below for 4 hours work.

Huge variation- will require some hired charge packs as not practical to install

We give our clients an alternative to diesel only, help them to make their site ready to accommodate electric plant

Depending on location (City centre proximity can accommodate) - more rural remote areas more challenging

comes down to sites planning - having infra ready, easy to do but need to know in advance, considerations need to be realistic and taken early on

4. Can you share OEM engineering and sustainability contacts?

@LUJANE Speak to Paul Kennan at Lynch he will give you the R&D CONTACTS.

@Lujane you can speak to David Mallon at MHM Group - davidmallon@mhm-group.co.uk

Do have OEM contacts but need to confirm with them that they're happy to share first of all