

Date: Tuesday 10th May

Attendees: James Cadman (Action Sustainability), Imogen Player (Action Sustainability), Tony Vozniak (Ardent Hire), Gary Todd (BAM), Paul Conway (Colas Rail), Geraint Rowland (Costain), Craig Downs (EKFB), Toni Holloway (Environment Agency), Kevin Fairholm (GGR Group), Andrea Davidson (HS2), Luca Mee (HW Martin), John Leader (Ide Systems), Michael Bandy (Kier), Thomas Barrett (Kilnbridge), Chris Gill (L Lynch), John Pirie (MHM), Phil Hayden (M O’Brien Group), Jennifer McTigue (M O’Brien Group), Wayne Bond (National Highways), Simon Beckett (Nationwide Platforms), Maria Jarosz (Network Rail), Chris Carter-Rowlands (NOCN), Paul Taylor (NOCN), John Daulton (Pro Rail Services), Robert Lockwood (SCS), Joshua Taylor (Selwood), Jessica Boyd (Siemens), Mark Lawton (Skanska), Andy Grayson (Welfare Hire).

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 V2.0 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 V2.0.</p> <p>The SCSS 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>Eco-operator Training and learning</p> <p>NOCN Group are developing a 3.5 hour short duration training course alongside the CPA, Flannery and Lynch. This course covers typical environmental issues and is specific to certain types of equipment, namely: excavators; dumpers; and wheel loaders. Sections of the course will also include maintenance and site management. The course has been designed so that it will be designed to the specific job type of the user e.g. an excavator driver or a dumper driver. It will also be suitable for operators and managers. There will be a multiple choice test at the end to pass the course. The Supply Chain Sustainability Course will be endorsing this course once it is fully developed.</p> <p>Flannery will be running some pilot courses, and then it will be made available through training provider networks, such as plant and training centres. It will be offered as an add-on to training that is already available. CPCS smart cards will show SiteRight courses, so this new course will show when CPCS cards are tapped.</p> <p>Lynch have already been using this training in house for 3 years. The development of this course is a great example of collaboration. The brief of the course will be circulated in due course to the Group.</p> <p>The School is currently in the process of developing two resources. One will be a short e-learning module, focused on how to run a low-carbon site, including: how to set it up; how to get services on site; how to put up fencing. It will be suitable for all sites and all operations.</p> <p>The second resource will be a video, focused on the need to reduce idling and the associated benefits. This is being developed with HS2 and their partners.</p>	<p>Group: please let us know if you would like to peer review the low-carbon efficient construction site resource</p>
	<p>Cost and Carbon Calculator</p> <p>James and 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.

Option B: Tailored Approach

- 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.

Option C: Detailed Tailored Approach

- Used to get detailed 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.

The group broke out into smaller groups to discuss the question:

- Which plant do we use as base cases (both conventional and alternative fuels)?

The groups were asked to provide details on technical specifications that they would like to use within the calculator.

The groups then fed back and discussed their thoughts. The full outputs are in the appendix. The key points included:

Small tools technical specification:

- School to contact Kevin Ranshaw at Wacker Neuson
- School to contact Mark Anderson at GAP Group
- School to contact Dave Harris and Christian Spence at Sunbelt Rentals

Lighting towers technical specification:

- School to contact Gary Todd at BAM
- School to contact Nick White at Speedy
- School to contact Mark Anderson at GAP Group
- School to contact Sunbelt Rentals
- School to contact Ray Caulfield at Trime

Small plant technical specification:

- School to contact Kevin Ranshaw at Wacker Neuson
- School to contact Gary Todd at BAM
- School to contact Nick White at Speedy
- School to contact Mark Anderson at GAP Group
- School to contact Dave Harris and Christian Spence Sunbelt Rentals

Medium plant technical specification:

- School to contact Kevin Fairholm at GGR Group to provide information on spider cranes

- School to contact Chris Gill at Lynch to provide information on MEWPs and small dozers
- School to contact Chris Matthews at Flannery to provide information on MEWPs and small dozers
- School to contact Neil Fawkes at GAP Group
- School to contact Martyn Brawn at Volvo
- School to contact Gary Todd at BAM
- School to contact Alan Clarke at Sunbelt Rentals
- School to contact Matt Seaman at Speedy
- School to contact Charles Stephenson at JCB
- School to contact Mick Knight at Cat-Finishing
- School to contact Giles White at BOMAG
- School to contact Richard Clement at Komatsu

Large plant technical specification:

- School to contact Mauricio Lopez at Caterpillar
- School to contact Chris Gill at Lynch

Generators <20kVA technical specification:

- School to contact CAT on green generators
- School to contact John Pirie at MHM
- School to contact John Leader at IDE Systems on solar panels
- School to contact Nick White at Speedy

Suggestion that a separate pump section is developed for the carbon and cost calculator, and in time this can be developed within the minimum standards. As such:

- School to contact Josh Taylor at Selwood to pass over technical specification information on pumps

Generators >20kVA technical specification:

- School to contact John Pirie at MHM
- School to contact John Leader at IDE Systems
- School to contact Aggreko via Dave Harris at Sunbelt Rentals

Access technical specification:

- School to contact Simon Beckett at Nationwide Platforms
- School to contact John Daulton at Pro Rail Services

The School will liaise with the recommended contacts to obtain the information for the cost and carbon calculator. The next iteration of the calculator, containing information provided from members of the plant group, will be demonstrated at the next meeting.

6

AOB

- No AOB was raised.

7	Next Meeting	
	<ul style="list-style-type: none"> Tuesday 12th July 2-4pm, online 	

Appendix – Google Jamboard Outputs from Breakout Group Discussion

SMALL TOOLS

Plant Type	Market Average OEM Make and Model	Data Provider – Partner Name
Whacker Plates – conventional fuel	e.g. Wacker <u>Neuson</u> WP1340A – diesel	Kevin at Wacker Neuson
Whacker Plates – alternative fuel	e.g. Wacker <u>Neuson</u> AP2560e - electric	
belle electric cement mixer		Need Speedy and GAP Group input and sunbelt
hilti electric breaker		

LIGHTING TOWERS

Plant Type	Market Average OEM Make and Model	Data Provider – Partner Name
Lithium Hybrid / fuel-cell / generators (could be filled into small plant)	prolectric solar lights	Trime - contact (lighting towers)
Generator, Hybrid, Solar, Fuel Cell, Lithium?	hydrogen Taylor lighting TCP	Gary Todd to provide more info from workshop managers - after the session.
Prolectric		need Speedy (e.g. Nick White) input and GAP and sunbelt
Telemetry?	Gen type and spec?	

SMALL PLANT <5T

Plant Type	Market Average OEM Make and Model	Data Provider – Partner Name
1.5tExc Hitachi ZX19	1.5T Electric JCB 19C ETEC	need speedy and GAP input and sunbelt
3t Kobelco SK2 8SR	5t Bobcat E45	Gary Todd to provide more info from workshop managers - after the session.
3t Exc Hitachi Zx33 u-6	Spider Cranes - UNIC URW094, UNO95 (diesel, electric version available, UNO295 (Diesel and electric)	Get Wacker Neuson input.

MEDIUM PLANT 8T – 13T

Plant Type	Market Average OEM Make and Model	Data Provider – Partner Name
MEWPS Link in with Access Spider cranes (8 legs) GGR Cranes Spider Cranes URW506, 706 & 1006 (Diesel)		Chris Gill, Lynch and Chris Matthews Flannery O'Briens GAP- Neil Fawkes spider cranes - speak to Kevin Fairholm to get more info
Small ADT	Volvo, Bell, Cat	Sunbelt rentals- Alan clarke Volvo Martyn Brawn Speedy - Matt Seaman
180 MACHINES NRMM (on road) - 3.5T, 12T, 7.5T, 18T (range models / make, etc.) - diesel	Jcb 3cx CAT	JCB Charles Stephenson Gary Todd to provide more info from workshop managers - after the session. Cat-Finng Mick Knight
Concrete pumps Ride on rollers	Bomag	BOMAG Giles white
Small dozer	CAT D3 Komatsu D39i-24	Cat-Finng Mick Knight Chris Gill, Lynch and Chris Matthews Flannery Komatsu Richard Clement
Brock machines Tele-handlers	JCB 540-200 JCB 540-170 JCB 535-125 JCB 540-140 JCB 535-95 JCB 535-70	Luca Mee, Andy Grayshon, Chris C-R, Andrea Davidson Kevin Fairholm to provide crawler crane spec

LARGE PLANT >13T

Plant Type	Market Average OEM Make and Model	Data Provider – Partner Name
14T Excavator - standard	Hitachi Zx130-7 Volvo EC140 Caterpillar 313 JCB 140 X series	See Lynch Website caterpillar - Mauricio?
17 Zero tail rating Excavators	Hitachi ZX135-7 Komatsu PC138	See Lynch Website
14T Wheel excavators	Hitachi ZX140W Komatsu PW148	See Lynch Website
20T Excavators - standard	Komatsu PC210-11 Volvo EC220 EL Caterpillar 320 next gen	See Lynch website
30T Excavators	Komatsu PC290-11 Caterpillar 330 Next Gen	See Lynch website
RRV - Road Rail vehicle	Doosan DX270 Doosan DX140	See ProRail website
30t ADT's	Caterpillar 730 next gen Volvo A30G Bell B30E	See Lynch website
Dozers	Caterpillar D6 Komatsu D61 Caterpillar D5 Komatsu D6SPX	See Lynch website
23t Hybrid Exc	Komatsu HB215LC-3	

GENERATORS <20kVA

Plant Type	Market Average OEM Make and Model	Data Provider – Partner Name
Welfare - generator considered back up (hybrid systems) / smart switching system (NB levels of welfare - 100% diesel, hybrid, smart switching - levels of eco-power) - efficiencies (right plant for the job)		CAT Green generators MHM
site Distribution Board with monitoring and control	63a and 125a	IDE Systems, Invisible Systems and automate (Gaia) John Leader - will pass over info on solar panels, etc.
Opportunities to reduce vehicle trips / welfare facilities - NB to have a separate section to Welfare to create a better contrast. (What does BP look like?)		Nick White from Speedy
		We need a pump section separately Josh Taylor to send over info for pumps

GENERATORS >20kVA

Plant Type	Market Average OEM Make and Model	Data Provider – Partner Name
30KVA		Aggreko/Atlas Copco
60KVA		
100KVA	63a or 125a board	MHM
Site Distribution Board with monitoring and control	proelectric proposed solar hybrid generator	
Stage V Generators Bruno FQ225C or FQ330SV	battery bank green power hire	IDE Systems / invisible system/ automate
Battery Storage/Hybrid generators		

ACCESS

Plant Type	Market Average OEM Make and Model	Data Provider – Partner Name
Diesel Boom	Genie 45 ft Boom	Nationwide Platforms
Diesel Boom	Genie 65ft Boom	Nationwide Platforms
Diesel Boom	Genie 85ft Boom	Nationwide Platforms
Diesel Scissor Lift	Genie 4390	Nationwide Platforms
Diesel Scissor Lift	Genie 5390	Nationwide Platforms
Hybrid Boom	NiftyLift HR21 EVO14	Nationwide Platforms See Prorail services for spec