

Date: Thursday 16th May 2024

Attendees: Mark Turner (Supply Chain Sustainability School), Lucy Picken (School), Matt Nichols (Reconomy), Nick Ribbons (Zero Waste Scotland), Wendy Storey (Suez), Samuel Baines (Severn Trent), Amanda Porritt (Colas), Lloyd Roblin (Welsh Water), Monika Wojda (McLaughlin & Harvey), Julie Brooks (Higgins), Oliver Burrows (Higgins), Adrian Hill (Bellway), Ricardo Guimaraes (Biffa), Nabeelah Hussain (Canary Wharf), Aneta Szypula (VP Groundforce), Steven Barton (Amco Giffen), Nathan Gray (Reconomy), Jennifer Tuff (MWH Water Treatment), Eleanor Horton-Smith (National Grid), Stephen Gough (Severn Trent Water), Christine Colquhoun (SP Energy Networks), Barnaby Tagart (Multiplex), Olivia Parry (Redrow), Morgan Price (Willmott Dixon), Martina Silickis (Balfour Beatty), Emma-Jane Clarke (Cadent), Lindsay Roberts (McCarthy Stone), Oana Caltia (Kilnbridge), Anthony Lavers (Taylor Wimpey)

Apologies: Will Keer (Biffa), Vanessa Rae (Knauf Insulation), Tom O'Reilly (Wates), Gary Crumlish (VP Groundforce)

Summary of Actions and Notes from the Waste and Resource Use Category Group Meeting

No	Notes	Actions	Owners
1	<p>Welcome and introductions</p> <ul style="list-style-type: none"> Apologies noted and new group attendees welcomed from Higgins Group, MWH Treatment, Willmott Dixon, SP Energy Networks, Canary Wharf, Biffa, Welsh Water, Reconomy 		
2	<p>Details of the work of our group</p> <ul style="list-style-type: none"> Work of our group and intervention points was outlined. <p>Work programme and resource updates Waste and Resource group page can be viewed here. Subtopic webpage can be viewed here. New resources on the school website – these can all be viewed here – filtering by Waste and resource efficiency in subtopic.</p> <p>Continued development by the group:</p> <ul style="list-style-type: none"> Overview of the School work programme discussed – we have achieved or are going to achieve our development goals Legislation – we try our best to keep the group updated and up to date. If you have any knowledge on areas we have missed, please do let us know The School purpose and aims were outlined. Emphasis on encouraging internal teams and suppliers to be upskilled on sustainability and get them involved with what we do We established School waste priorities for 2024/25. These are: developing and using better KPIs, digitising waste tracking, achieving zero avoidable waste and common definitions and legislative updates. We will also look at other areas but will focus on these areas as priorities. <p>MEP map</p> <ul style="list-style-type: none"> The MEP map is a platform for identifying organisations that will accept items and resources fit for waste that can be reused. 	<p>Please introduce others to the group who may find it useful or can bring knowledge to the table (including suppliers/members, who can attend and present by arrangement)</p> <p>Please think about relevant resources and case studies to submit, send to LP and MT – let's keep up the pace on these!</p>	<p>All</p> <p>All</p> <p>All</p>

	<p>Learning Pathways We have two waste Learning Pathways. Members and partners of the school can create bespoke learning pathways using these as base content and, if they wish, add content of their own to complement that provided via the School. There is a gap between assignments and completions – can we PLEASE improve uptake and completion and encourage colleagues who have been assigned these to complete them?</p> <p>Individual partners assign these, not the School – question as to whether these are these being assigned to those who don’t need it, or is there a lack of following up on those that they have been assigned to? Flagged so that partners can re-think who we have assigned these to.</p> <p>If these LPs do not work for you, please also let us know so that we can improve them.</p> <p>E-learning and sustainability shorts Introduction waste and introduction to responsible waste management in FM have good uptake. Please do continue to use these. We will be refreshing these in the coming year to include Digital Waste Tracking.</p> <p>Construction lifecycle waste</p> <ul style="list-style-type: none"> The web feature can be found here - please use and suggest additional resources for consideration. <p>Training programme Upcoming training sessions discussed – upcoming this quarter include:</p> <ul style="list-style-type: none"> Getting to grips with plastic in Scotland lunch ‘n’ learn Making packaging sustainable and digital with Balfour Beatty and Whitecroft Lighting Circularity, waste & retrofit with BW workplace experts lunch ‘n’ learn 	<p>Please submit new MEPs you encounter through this form If you don’t have time to complete the form, you can send us a link or short description and we’ll do the rest</p> <p>If you would like to volunteer to discuss how we can improve these, please do get in touch.</p> <p>If you have an idea you would like to share, please do let us know and we can plan an event.</p>	<p>All</p> <p>All</p>
<p>3</p>	<p>Resource updates</p> <ul style="list-style-type: none"> Variety of resources uploaded to the School in the last quarter – these are case studies, videos and e-learnings. If you have any resources (case studies, initiatives, web pages etc) that you would like to share, please do let us know and we can share these on the School. Suez outlined their recently uploaded resource – a really welcome addition to the School’s case studies Please also get in touch if you have any case studies that you have but haven’t yet formatted – we can support with this. 	<p>Please send over any resources you would be happy to share on the School to MT and LP.</p>	<p>All</p>
<p>4</p>	<p>Business plan specifics</p> <ul style="list-style-type: none"> Focus for 2024 is to encourage improved waste and resource efficiency performance by improving knowledge, practice, measurement and targeting 	<p>If you have knowledge you would like to share, please do get in touch and we will set up an event. Or</p>	<p>All</p>

	<ul style="list-style-type: none"> • We will host a variety of workshops and webinars – we want to encourage you to co-host some webinars and workshops and share your learning • Four key activities: <ul style="list-style-type: none"> ○ Developing and using better KPIs – we have been discussing this externally and are looking to get a good workable framework of KPIs. Not just what we do but what clients and supply chain do. We will develop a short video showcasing perspectives ○ Digitising waste tracking – this will be mandatory and we are looking to target events to give advice ○ Zero avoidable waste to landfill – this will include looking at what are sensible dates to be looking to achieve and how can we make unavoidable waste avoidable. We will also look to develop a short partner video as part of this ○ Legislative and policy changes – if you know of some legislation coming through or you sit on expert panels, please share this and we can get this out to partners. 	<p>upload to the School as a resource.</p> <p>If anyone would like to be involved with a video showing perspectives on the topic matter, please do get in touch.</p>	<p>All</p>
<p>5</p>	<p>Waste reduction and circularity initiatives</p> <p>Circularity is key to what we do as a group and for organisations who attend these group meetings.</p> <p>Redrow waste reduction activities – Olivia Parry at Redrow</p> <ul style="list-style-type: none"> • Outline of ‘Reduce the Rubble’ project and how waste was reduced during the whole process • Key research findings: Three waste streams with exact tonnage calculated, identification of supply chain errors and opportunities to design out waste • Established a buildability and waste working group and developed a waste and resource efficiency policy and a resource efficiency and waste strategy • Outline of how Redrow have changed house designs, to reduce offcuts and minimise waste generated from design features • Have established a material protection procedure and materials storage and reuse procedure • Collaboration with supply chain to investigate solutions to minimise damage, trialling additional protection measures and ensuring subcontractors are following layouts to maximise efficient use of materials • Have also streamlined waste brokers from 23 to 5. With this, have agreed Service Level Agreement with brokers to improve site support and are undertaking relevant training e.g. toolbox talks, deliverables checklists and roundtables with all brokers • Reuse of excavated materials – supporting circular economy principles and extending lifespan of materials. Have developed a landscaping manual to showcase how to creatively reuse materials 		

- Training and awareness – have utilised: webinars to share findings from Reduce the Rubble project, SCSS waste workshops, toolbox talks on site, waste policy and strategy e-learning module, material handling training for drivers and waste management incorporated into varying meetings
- Overall waste reduction of 26% since 2017 to 2022, 98.3% landfill diversion rate in FY23 and new target to reduce construction waste intensity by 10% by 2025.

Reconomy - circular economy initiatives

- Outlined waste and resource management within the framework of the circular economy
- Circular economy looks at a fundamental approach to production and consumption – need to extract the maximum value through to end of use
- Outline of the importance of the circular economy and why measuring and tracking waste is important
- Emphasis on the importance of legislation and how this will impact companies' operations in future
- Reconomy have verified impact systems and waste index tool which helps plot companies' trajectory.

Adding and reviewing your ideas

See Appendix - Jamboard results for ideas for waste reduction and circularity. These are grouped into: what initiatives do you have already and what could the School do.

Redrow Q&A:

- Question – Redrow changes to house design – were they going through a general re-design and they plugged these changes into this, or did they change design for waste reduction purposes?
 - Redrow made note of everything they needed to do, and brought this into the next house review. Rolled together these changes with other general house design amendments. Do not want to make changes too frequently, due to impact on supply chain
- Qflow and Qualisflow are the same – SPEN looking to use this too, and happy to share their experience with them
- Question – Balfour Beatty have had similar experiences. When looking at material on site in a take back scheme, what logistics did Redrow use, was own fleet used?
 - Depends on material – take back schemes in place for pallets and paint cans – paint contractors take them and drop them back at decorator centre and then they recycle. Pallets – Redrow use Scot Pallets and in discussion with Pallet Loop, pallets are stacked on a certain part of the site and when they are ready for collection, the site manager calls Scott Pallets

If you have any further thoughts or ideas, please let MT and LP know.

All

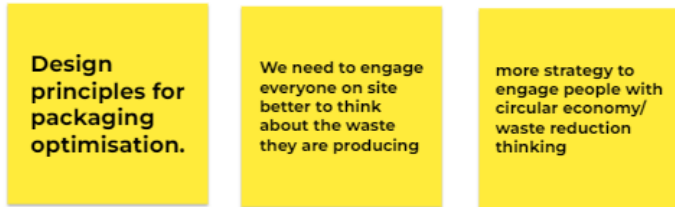
	<p>who collect them. Compliance side is difficult on pallets and need to make sure that if organisations are taking the waste, they have right paperwork and carrier’s license</p> <ul style="list-style-type: none"> • General question – takeback schemes often need a certain volume of materials before they will take it back. Working in locations such as Central London, sites often do not have space for storing pallets / packaging, before it becomes a fire load issue. Has anyone had a similar experience and found a solution? 	<p>If any partner has experience with this and has found a solution, please get in touch.</p>	<p>All</p>
6	<p>Update on Virtual Conference plans and training topics</p> <p>Ideas for grouping webinar topics:</p> <ul style="list-style-type: none"> • Tracking materials packaging reuse – being run by Balfour Beatty and Whitecroft Lighting on 6th June • CSRD and waste reporting • Importance of waste segregation / simplifying waste – N.B. a School webinar is being presented by Biffa on 4th July (Election DAY!)- Join HERE building on their experience in Wales via the new separated recycling requirements. <p>See appendix - Jamboard for additional webinar topics that have been previously discussed.</p>	<p>If you have any further webinar topics you would like to see on the School, please let MT and LP know.</p>	<p>All</p>
7	<p>Waste monitoring and KPIs guidance structure</p> <ul style="list-style-type: none"> • If you have any further useful KPIs, including how you are implementing these, please do send these through. This can include social initiatives • We are now looking for preferences with how we assemble our guidance on KPIs – e.g. structure, markets to address, what needs to be specific or generic, what would be useful for your business. 	<p>Please do send over any KPIs to MT and LP.</p> <p>Please email MT and LP with your preferences. NB – this element is very important – partner feedback essential please!</p>	<p>All</p> <p>All</p>
8	<p>AOB</p> <ul style="list-style-type: none"> • Next meeting date – 29th August 2024, 10am-12pm 	<p>Circulate invites</p>	<p>LP</p>

Ideas for waste reduction and circularity

What initiatives do you have already?



What could the School do?



Additional webinar topics

Material controllers on site - job role and benefits

changes to Regs - including wood waste from demolition now haz waste and cables now WEEE

Driving leaner engineering and design

How to effectively introduce waste performance KPIs into trade contracts.

CSRD etc and waste reporting

Assisting suppliers in tracking the Carbon footprint of their products, specialfically for SME's that don't have a great deal of resources to allcoate

Digital Waste Passports & EPD analysis

Overview of governmental exemptions for waste reuse in construction and other similar schemes (not necessarily from government) e.g. CL:AIRE

Incentives

Methods to monitor and manage subcontractor waste

Collaboration with the retrofit working group re: waste / circular economy

Tracking materials packaging re-use

Materials passports

How to drive better resource management and waste minimisation via procurement approaches and contracts

Why do we need to recycle? Educate /Change behaviours/Impact on individuals & environment.

Change of the culture/ behavioral science / how to bring people on board with circular economy etc.

Circularity reporting metrics

Package / trade specific resource efficiency sessions e.g. DoWCoP for groundworks / How to interpret EPD's for facade specifications etc.

Prevention of lost, damaged and stolen materials

What we do as individuals/companies makes a difference?

Demonstrate to suppliers and subcontractors how reducing waste can also save them money

Key Enablers, biggest influencer: starts with client, than hierarchy of influence to designers, suppliers, contractors, subcontractors (end is happens on site)

Change management- how can we change the norm and influence staff to change their waste habits

How to develop action plans for highest waste generating trades

Vertical and horizontal movements of bins and skips management on site.

How to share best practices of waste management across the business

Jamboard – waste KPIs

Goals

e.g. 90% waste reused or recycled or X% reduction in waste intensity by date x against date x baseline

Current reported figures (public domain for Kier) relate to % diversion rate from Landfill for demolition, excavation and construction waste

Manufacture perspective - Reduce volume of packaging per product.

Bellway - Reduce average waste per house - target of 7.1T

participation rate in recycling services

Do we count waste just skipped? Or all waste including what goes off site via subcontractors and suppliers?

increase recycling rate from 98-100% where possible

Find sustainable alternatives i.e. recycled materials, compostable or biodegradable, preferably the later and made of organic.

reduce packaging waste

implement material management more often to avoid excess soil and aggregates to be removed off site.

Zero "avoidable" waste recorded in m3/£ million turnover

Prevent the generation of waste - e.g. CLAIRE DoW CoP, reuse of demo materials

General goal to improve accuracy of construction waste reported & challenging what the waste figures are made up of

Ensuring waste providers define waste disposal correctly, using consistent and clear terminology. eg "recycled" should not mean waste to energy!

Agree a definition for "Zero Waste to Landfill"

High level - Resource efficiency - We will work with our supply chain to use resources in a sustainable way throughout a projects life-cycle. Part of evolved sust framework.

General goal to improve data reporting and accuracy / detail from our supply chain / projects.

Biffa - segregation at site level is by far the best approach if possible to do - will give much more certainty

Targets

e.g. reduce avoidable waste to landfill or Reduce waste intensity

Reduce virgin material used. % TBC

More than 90% of waste diverted from landfill

Good waste planning will help reduce vehicle movements - skips planned for segregation

Think in terms of the balance between circularity and net zero

Diversion from landfill rate of 100% by 2026

reduce construction waste intensity (t/100sqm of completed floor area) - percentage reduction tbc

Reuse or recycle more than 98% of total waste

Robertsons - using the waste hierarchy to address what ends up as RDF rather than recycled. Also conducting site audits,

Reduce "waste" packaging by x% (tbc) by 2026

Become zero waste company by x year (still TBC)

TBC across the Kier Group but looking to agree a 20% reduction target by 2027 - measured as Tonnes of waste / £M of revenue

Zero waste to landfill by 2028

Problem with information being based on industry averages rather than content of actual skips etc.

Achieve Zero Avoidable Waste for our sites by 2030

Getting standardised measurement will be crucial to improvement

What KPIs should be common (all sectors) use?

Waste Fates

Water Usage

Top 5 waste streams

'evidence' collective understanding, for transparency of data (anything other than WTN is more challenging)

% of subcontractors taken part in training

Packaging reduction

recycling of waste for a project, waste companies having PAS402 ensure transparency/evidence of recycling

Splitting recycling reporting into "Closed-loop recycling" & "Open-loop recycling".

Waste recycled

More detailed Breakdown of 'diverted' amounts on waste reports

consistency - Waste recycling or landfill diversion?

number of materials donated to enterprises

% of take back schemes for waste

Measure the positive social impact of waste reduction initiatives, including community awareness, education programs, and the creation of employment opportunities

Use of community based recycling facilities

social value from 'waste' donated

What should be sector specific?

Construction - CO2e avoided through initiatives, materials, etc

Nuclear Site - Set a bespoke % of waste recycled OFF SITE - (Sorry - piggybacking off this comment but does this include the land mgt arisings as nuclear stations have HUGE landholdings)

The percentage of construction materials identified as reusable and successfully integrated into other projects or phases.

The monetary expenses associated with the disposal of construction waste, reflecting the financial impact of waste management practices.

Relevant sectors - company fleet powertrains i.e % Hybrid % BEV

Material reuse from demo to construction

The amount of waste generated per project size, helping to measure waste efficiency.

/off site construction Delivery points, reduce number of deliveries to site - carbon reduction, less disturbance on communities

DNOs particularly interested in streetworks waste

KPI to consider when measured, and if on the Contractor to report, understand difference between our 'influence' and 'direct control' over it.

Construction phase KPI 'how we build' - should be project and sector type, as will influence the design and activities on site to build

Social enterprise spend for waste

Housebuilding specific - should we all report waste per tonnes per EU (Equivalent unit built) or per area of build ie per 100m2 or 1000ft2 etc

construction waste (common on all new build projects, unlike demolition or excavation waste), metric of both: volume and tonnes