



Wednesday 30 September 2020

The Crystal, London

**Construction News** is pleased to launch a new and very timely event focused on how the construction industry needs to respond to the climate emergency and tackle carbon throughout the construction process and supply chain.

**07:30 Registration & refreshments**

**08:00 BREAKFAST BRIEFING: Investment and financing (45 mins) Invitation Only**

How are net-zero targets impacting which businesses and projects investors will support in the future? To what extent is the zero-carbon agenda affecting investors' risk management and asset allocation frameworks, and how might carbon metrics evolve to influence investment decisions? What should companies do to maximise their chances of winning investment?

*Contributors:*

**Emma Harvey**, director, **Green Finance Institute**

**John Godfrey**, corporate affairs director, **Legal & General**

**08:30 Launch of the Young Professionals Challenge: Design a Zero Carbon Housing Development**

*This challenge will be available to young professionals working in the industry, who have graduated in the last 3 years. A maximum of 5 team members, and 5 teams will take part in the competition on the day. The winner will be announced on stage in the afternoon.*

**09:00 Opening remarks from the chair**

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**The Challenge**

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**09:10 KEYNOTE: Driving policy and public sector projects to prioritise the carbon agenda**

- Incentivising the industry to change practices to support low carbon alternative materials and processes
- Shifting emphasis and improving regulation for retrofitting and repurposing
- Putting carbon targets at the heart of procurement guidance for public sector organisations
- How policy is evolving and what's on the horizon

**Lord Deben**, chair, **Committee on Climate Change**

**09:30 INDUSTRY KEYNOTE: How should we be responding to the need to decarbonise construction?**

- Simplifying the message and creating a clear corporate strategy
- Educating your workforce, and ensuring buy-in
- Embedding a new way of thinking about construction and our role in the world
- Carbon as a metric - commensurate with cost, quality, health and safety
- Measuring carbon to better understand the challenge and priorities
  - can we agree on a measurement model?

**Caroline Hill**, group corporate affairs & sustainability director, **Landsec**

**10:00 CLIENT PANEL: Strategies and perspectives: Pushing the supply chain to meet targets, rethinking construction methods, and using procurement to force change**

- Why is carbon a key priority for future project design, construction and management?
- How is this impacting the way you procure work?
- To what extent is the supply chain helping you to meet the challenge?
- Long term, what impact will net-zero targets have on the project pipeline?

*Panellists:*

**Louise Clarke**, head of sustainable places, **Berkeley Group**

**Andy Haigh**, senior sustainability manager, **Canary Wharf Contractors**

**Helen Hare**, director of project management, **Great Portland Estates**

**Darren Colderwood**, director of infrastructure, **Heathrow Airport**

**10:40 Networking refreshments break**

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**Changing mindsets**

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**11:10 FOCUS: A roadmap to achieving net zero carbon emissions by 2045**

Showcasing innovative approaches and practices that can challenge the industry to drastically cut emissions and exploring how this can be applied in the short-term.

**Chris Hayes**, sustainability operations director, **Skanska**

**11:40 FOCUS: Decarbonising your site operations and reimagining the construction site of the future**

- Exploring options for low carbon temporary works
- To what extent do we have the low carbon solutions to change how a site operates?
- Efficient delivery of green power to your site
- What impact does net-zero have on the logistics and techniques commonly used?
- How can sites change their approach to recycling building materials and components?

**Graham Edgell**, director of sustainability & procurement, **Morgan Sindall**

**12:10 SHOWCASE: Quick fire pitches from innovative suppliers**

Hear quick pitches from our event partners on their innovative products and solutions that can help your business and projects decarbonise

**12:50 Networking Lunch**

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**Short and long-term solutions**

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**13:50 DEBATE: Off-site vs. on-site construction – which is the best short and long-term approach to carbon reduction?**

- Demonstrating a methodology for evaluating offsite vs. on-site from a carbon perspective

- Understanding the challenges and pitfall both currently face in their operations
- Discussing the structural challenge that net-zero brings to staff and projects and how important adaptability becomes

*Contributors:*

**John Dunne**, group health, safety, environment & quality director, **Wates Group**

**14:30 CASE STUDY: 5D+: BIM-integrated cost and carbon estimation on HS2**

This session will showcase an innovative approach to integrating the carbon and cost calculation for construction projects, based on accurate quantity take-offs from BIM models. This collaborative 5D+ workflow was designed to link relevant functions (sustainability specialists, estimators/QSs & BIM/Data managers), that are otherwise typically quite disconnected, to achieve coherent carbon and cost measurement. The process places structured, BIM-based quantity data at the core and creates flexible yet consistent relationships between those and specialist information required for cost & carbon estimating.

**Athina Papakosta**, carbon specialist, **SCS Railways JV** & **Maciej Kindler**, head of BIM, **Skanska**

**15:00 CASE STUDY: Successful deployment of low carbon materials on Tideway**

**Darren White**, head of sustainability, **Tideway**

**15:30 Networking refreshments break**

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**Achieving net-zero**

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**16:00 FOCUS: Demonstrating a whole life approach to decarbonising construction**

- Exploring the challenge posed by embedded carbon, measuring it and the impact for a project
- Ensuring clients have the data to understand the whole life impact of certain materials and the need for flexible design

**Lara Young**, group carbon manager, **Costain**

**16:30 FOCUS: Retrofitting carbon in existing infrastructure**

- How are buildings and infrastructure being renovated in line with the carbon agenda?
- Ensuring reinvestment in existing assets as opposed to building new ones
- Embedding the skills required for innovative retrofitting into the whole supply chain

**Sonal Jain**, sustainability director, net zero carbon, clients & workplaces, **JLL**

**17:00 POWER PANEL: Rethinking our approach to construction and reshaping how we work together**

- How can designers support the need to reuse existing structures and incorporate this into their designs?
- How are investors and financial institutions pushing the agenda and investment decisions?
- Is the zero-carbon agenda always a cost saving solution or is investment needed in the short and long term?
- How are we preparing the sector and creating a talent pipeline for a greener industry?

*Panellists:*

**Alex Vaughan**, ceo, **Costain**

**Alastair Mant**, head of business transformation, **UK Green Building Council**

**George Adams, chair, CIC Green Construction Panel**

**Nidhi Baiswar, head of sustainable design & construction, Bouygues UK**

**17:40 Young Professionals Challenge winners announced**

**17:45 Closing remarks from the chair**

**17:50 End of conference**