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QUARTERLY CO2NSTRUCT ZERO PERFORMANCE FRAMEWORK – CZ introduces sector RAG status to monitor progress against the 6th Carbon Budget

Following the Committee on Climate Change's (CCC) recent progress review, the construction sector continues to make progress on the commitments to drive carbon out of its activities, according to the latest comprehensive review of its carbon reduction priorities.

The Construction Leadership Council today publishes its 6th progress update to its CO2nstruct Zero Performance Framework. The framework was launched at COP26 in November 2021, as a single universal tool to collect data and report on how construction is tackling the carbon challenge. For the first time, we have been able to make an assessment on each of the 9 priorities across areas of Transport, Buildings and Construction Activity to determine if we are on track, aligned to the 6th carbon budget.

The Performance Framework comprises 31 metrics across nine priority areas, each of which tells a story of how the sector is reducing its carbon emissions across construction activities; the resulting buildings and structures; and the transport of products and materials.

The 6th update shows continued progress across several areas, including:

- Transport: Publication of a Zero Diesel route-map, enabling the sector to collectively reduce its reliance on diesel, across sites, whilst noting further work on Electric Vehicles is needed, echoing CCC concerns on van sales.
- Buildings: Continued upskilling on heat pump installers in line with our predicted needs to reach the 2030 target.
- Construction: Publication of a carbon intensity benchmark on concrete, enabling industry to measure its impact.

There are, however, areas where progress needs to be accelerated if the buildings sector is to reach zero emissions by 2050, most notably on domestic retrofit where the work of the newly established National Retrofit Hub and its focus on consumer engagement and education to drive demand will be important.

Continued progress should be expected around measurement of operational and embodied carbon with building type benchmarks for all asset classes expected to be launched by 2024, as well as ambitions to give customers low carbon choices and allow them to reach Net Zero by offering low carbon design options and advice from EPD's to retrofit.

In addition, over 220 organisations have now joined CO2nstruct Zero as Business Champions or Partners, having demonstrated carbon reduction leadership. They are sharing good practice and collectively leading the sector's progress to Net Zero. For example, the report showcases Bradfords Building Supplies' Employee Retention Scheme which offers staff free home energy assessments and an end-to-end retrofit plan linking to CO2nstruct Zero priority 4. This will enable employees to understand the customer journey and advise first hand.

It also shows the Environment Agency's ambitious scheme to reduce embodied carbon by 45% implementing BIM analytics and Carbon workflow on a tidal barrier design to protect 13,000 homes and businesses from tidal flooding. An area that can be linked back to CO2nstruct Zero priority 7.

The final case study from Keltbray aligns to CO2nstruct Zero priority 1 and outlines the benefits they have found in terms of fuel cost, reduced emissions, improved air quality and

less noise from site decarbonisation through electrification. They were able to swap out fuel generators with TBS (Temporary Building Supply) that supplies electric power directly from the mains on several major construction sites in London.

Nusrat Ghani (Minister of State for Industry at the Department for Business and Trade and Minister of State for the Investment Security Unit at the Cabinet Office) said:

“Cutting carbon emissions in construction is crucial for achieving net zero by 2050, and that’s why I’m pleased to see the latest Construct Zero report demonstrate the great work being done across the sector to help achieve this and make UK construction fit for the future.”

Matt Palmer (CLC Net Zero and Biodiversity Industry Sponsor) said:

“Today’s 6th Co2nstruct Zero report sets out the latest progress from the construction sector in meeting the Net Zero challenge. Publication of the recent Zero Diesel route-map (setting out a path for the sector to reduce its reliance on zero diesel on sites by 78% by 2035), together with our first benchmark on carbon intensity is a clear step in the right direction. However, we have a considerable way to go on this journey, as echoed by the Independent Committee for Climate Change’s recent progress report. Challenges exist, such as accelerating the number of retrofit co-ordinators and we will be working with the National Retrofit Hub to explore this further. I would like to thank all our Business Champions and Partners for their support”.

The CO2nstruct Zero nine priorities: RAG Status

CLC 6th Performance Assessment Q2 - July 2023



The Performance Framework has been developed to provide the CLC with a sector level dashboard on our progress towards Net Zero aimed at motivating businesses to action and to help those outside the sector understand our progress. We collate data for the dashboard on a quarterly basis albeit not every metric will be available quarterly.



TRANSPORT



BUILDINGS



CONSTRUCTION ACTIVITY

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| 1. Accelerating the shift of the construction workforce to zero emission vehicles and onsite plant | 2. Optimise the use of Modern Methods of Construction and improved onsite logistics, in doing so reducing waste and transport to sites | 3. Championing developments and infrastructure investments that enable low carbon modes of transport | 4. Work with Government to deliver retrofitting to improve energy efficiency of the existing housing stock | 5. Scale up industry capability to deliver low carbon heat solutions in buildings, supporting heat pump deployment, trials of hydrogen heating systems and heat networks | 6. Enhancing the energy performance of new and existing buildings through higher operational efficiency standards and better building energy performance | 7. Implementing carbon measurement, to support our construction projects in making quantifiable decisions to remove carbon | 8. Designing out carbon, developing the capability of our designers and construction professionals to design in line with circular economy - shifting commercial models to reward measurable carbon reductions | 9. Support development of innovative low carbon materials, as well as advancing low carbon solutions for manufacturing processes and distribution |
|--|--|--|--|--|--|--|--|---|

78% of diesel plant to be eliminated from construction sites by 2035	Close the productivity gap between construction and economy average output per worker by 2035	Connect public/active transport From 2025, planning applications from the sector must connect to public / active transport and include EV charging where parking is provided.	27 million homes Working with Government deliver retrofitting to 27M homes by 2040	Low carbon heating All new buildings will be designed with low carbon heating solutions from 2025.	Minimise energy demand From 2025 we will deliver new homes and buildings which will minimise energy demand and reduce emissions in operation by 75% (dwellings) and at least 27% (commercial buildings) compared to current standards	Carbon data provided to our clients Every client of the sector will be provided carbon data by 2030 to make informed lower carbon choices	Becoming Net Zero From 2022, we will give all our clients the chance to become net zero by offering alternative low carbon design options and advice to clients, even if not scoped	66% reduction in emissions By 2035 we will have reduced construction product emissions down by 66% from 2018
	Eliminate waste Eliminate all but hazardous C&D waste entering landfill by 2040		11.13 million homes 11.13M homes to reach EPC C by 2035	50% of all housing stock connected to low carbon heat sources (heat networks, heat pumps & PV) by 2035	25% reduction in heat demand Heat demand in buildings needs to fall by over 25% from 2019 to 2035			

RAG STATUS

GREEN - ON TRACK

AMBER - MORE WORK NEEDED

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TRANSPORT

Priority	1. Accelerating the shift of the construction workforce to zero emission vehicles and onsite plant	2. Optimise the use of Modern Methods of Construction and improved onsite logistics, in doing so reducing waste and transport to sites	3. Championing developments and infrastructure investments that enable low carbon modes of transport
Headline Commitment	78% of diesel plant to be eliminated from construction sites by 2035	Close the productivity gap between construction and economy average output per worker by 2035 Eliminate all but hazardous C&D waste entering landfill by 2040	Connect public/active transport From 2025, planning applications from the sector must connect to public / active transport and include EV charging where parking is provided
Performance Framework Result	5.2% ↑ Annual increase in electric vans in – new registrations of battery electric vans	40% Increase % of pre-manufactured value across sector year on year. Target 50%	36% ↑ Annual increase in number of EV charging points installed by the sector

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BUILDINGS

Priority	4. Work with Government to deliver retrofitting to improve energy efficiency of the existing housing stock	5. Scale up industry capability to deliver low carbon heat solutions in buildings, supporting heat pump deployment, trials of hydrogen heating systems and heat networks	6. Enhancing the energy performance of new and existing buildings through higher operational energy efficiency standards and better building energy performance
Headline Commitment	Working with Government deliver retrofitting to 27 million homes by 2040 11.13 million homes to reach EPC C by 2035	All new buildings will be designed with low carbon heating solutions from 2025. 50% of all housing stock connected to low carbon heat sources (heat networks, heat pumps & PV) by 2035.	From 2025 we will deliver new homes and buildings which will minimise energy demand and reduce emissions in operation by 75% (dwellings) and at least 27% (commercial buildings) compared to current standards. Heat demand in buildings needs to fall by over 25% from 2019 to 2035
Performance Framework Result	67 Business registered to industry 'quality scheme' routes and licensing consistent with PAS2035 and target annual increase in number of businesses registered	4827 Annual increase in trained Heat Pump Installers (MCS Registrations) aiming for 30,000 by 2030	ON TRACK For milestone on commercial buildings standard & future homes standards (date TBC)

RAG STATUS

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CONSTRUCTION ACTIVITY

Priority	7. Implementing carbon measurement, to support our construction projects in making quantifiable decisions to remove carbon	8. Designing out carbon, developing the capability of our designers and construction professionals to design in line with circular economy - shifting commercial models to reward measurable carbon reductions	9. Support development of innovative low carbon materials, as well as advancing low carbon solutions for manufacturing production processes and distribution										
Headline Commitment	Carbon data provided to our clients Every client of the sector will be provided carbon data by 2030 to make informed lower carbon choices	Becoming Net Zero From 2022, we will give all our clients the chance to become net zero by offering alternative low carbon design options and advice to clients, even if not scoped	66% reduction in emissions By 2035 we will have reduced construction product emissions down by 66% from 2018										
Performance Framework Result	10 Accredited businesses over 250 staff in infrastructure to achieve PAS 2080 accreditation, monitor % coverage, target 100% by 2025	Building type benchmarks on embodied carbon <table border="1"> <thead> <tr> <th>2024</th> <th>2025</th> </tr> </thead> <tbody> <tr> <td>Offices</td> <td>Homes</td> </tr> <tr> <td>Education</td> <td>Healthcare</td> </tr> <tr> <td>Industry</td> <td>Linear</td> </tr> <tr> <td>Retail</td> <td>Infrastructure</td> </tr> </tbody> </table>	2024	2025	Offices	Homes	Education	Healthcare	Industry	Linear	Retail	Infrastructure	Concrete: 1.5% increase from baseline CO2 emissions intensity. Establish 2018 baseline and target annual reduction in embodied carbon CO2/Tonne for key product lines.
2024	2025												
Offices	Homes												
Education	Healthcare												
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Notes to editors

About the Construction Leadership Council (CLC).

The CLC's mission is to provide sector leadership to the construction industry. The expanded CLC has twelve workstreams that operate collaboratively to address the biggest issues facing the sector. Workstreams include skills and inclusion, building safety, Net Zero and business models. The CLC is co-chaired by Nusrat Ghani MP (Minister of State for Industry at the Department for Business and Trade and Minister of State for the Investment Security Unit at the Cabinet Office) and Mark Reynolds (Group Chairman and Chief Executive, Mace).

About CO2nstruct Zero

CO2nstruct Zero is the construction sector's zero carbon change programme. The programme is underpinned by nine priorities (drawn from the Committee for Climate Change), together with a suite of 31 metrics. The CLC measures industry progress against these metrics through quarterly public progress reports. Over 220 companies currently support the programme.