

# Performance Framework Dashboard

November 2021

## CLC 1<sup>st</sup> Performance Assessment Q3 2021

### Background

The Construction Leadership Council (CLC) is leading the sector's response to the Net Zero challenge, through the Construct Zero change programme. Building on the success of the sector's collaborations during COVID, the CLC has engaged the industry to start to develop the Performance Framework, which sets out how the sector will commit to, and measure its progress towards, Net Zero.



Construction  
Leadership  
Council

### What is the Performance Framework?

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 intend to collate data for the dashboard on a quarterly basis albeit not every metric will be available quarterly. The data itself will be drawn from sources which already aggregate it, known as data point owners.

The Performance Framework is very closely aligned with Government policy and draws on emerging thinking on carbon measurement and assessment, as such it will evolve over time and we will no doubt update and improve the metrics. The current metrics and performance published today is a starting point so we can review, test and refine.

The framework is being published this quarter to provide early sight of the metrics available to enable the industry to comment. It will take multiple quarters before all metrics are available and longer to refine, to make this as effective as it can be for the industry, but we are keen to publish this version early for comment and reviews.

# Performance Framework Dashboard November 2021

## Foreword

As Co-Chair of the Construction Leadership Council, I'm pleased to welcome you to 'Construct Zero Performance Framework: Progress Update Report: 1'. The Performance Framework, published in July 2021, set out how the sector will commit to, and measure its progress towards Net Zero. This included a set of metrics against which the Construction Leadership Council will track the sector's collective progress and provide Government with quarterly public updates.

We know this is going to take time and that such a significant transition won't happen overnight. Today's report is the first step in this journey, with progress illustrated against those metrics where the relevant data is available on a quarterly basis.

The data set being published today is a first attempt to develop a set of metrics to allow us to measure the progress to Net Zero. There is much work to be done to refine, improve and iterate this data but, we hope, that it still provides a useful first iteration for review by the industry. And, in publishing this early 'working version' of the data in one place, Construct Zero

would welcome engagement from the sector about how to better iterate and improve it for future updates.

Since my appointment as Construction Minister on 16 September, I have been delighted to learn about how industry has welcomed and proactively engaged with Construct Zero, building on the strong collective desire across the political spectrum, society and businesses for us to step up to the challenge of climate change. I recently chaired my first meeting of the programme's Advisory Board, bringing together some of the industry's leading experts in this space. It was great to have their critical challenge, advice and input on the programme's development and the challenges that lie ahead.

In recent weeks, the Government has announced both its Heat and Buildings Strategy and Net Zero Strategy. Together with the existing Industrial Decarbonisation Strategy, these provide a clearer framework and policy environment to reach Net Zero in the UK.

I am looking forward to working with the Construct Zero programme, our Partners and

Business Champions to discuss, understand and learn how we can collectively translate these strategies into on the ground delivery in communities and businesses across the UK and beyond.

This is the next step of our collective journey to Net Zero, as a partnership between the Government and the construction industry. Only by working together collectively, will we meet the challenge of achieving Net Zero carbon.

I would like to thank each of you for your support on the programme and look forward to continuing to work with you.



Lee Rowley  
Construction Minister

## Executive summary

Real progress has been made against the Performance Framework following the recent publication of the **Heat & Buildings** and **Net Zero Strategies**, which have both given greater policy certainty to industry so they can plan to meet Net Zero.

This confidence is reflected in those areas where we currently have greater policy certainty, such as on **Heat Pumps**. Our analysis shows that we're making progress, with almost 3,500 trained installers spread across the whole of the UK, contributing towards our target of 30,000 installers by 2030 (metric 15). There is still more to do here but quarter on quarter uptake is increasing, driven by demand.

Looking at the historic trends, we can start to understand the impact that COVID has had on the sector's carbon footprint –such as **fewer homes sold in 2020 with EPC A or B** than in 2019 (metric 16). Overall, new home completions decreased by circa 30,000 homes during this period, suggesting a correlation between the pandemic and new home completions. This was solely anticipated as a temporary slow down in new home sales and so in the long term won't significantly impact on our delivery of energy efficient new homes.

There is also an interesting story to be told on **productivity** (metric 5). Looking at the quarterly figures for the last 12 months, there are clear peaks and troughs as a result of adapting our ways of working during COVID. Now it seems our productivity levels have settled at a higher level than pre-COVID, which is positive for our Net Zero journey; higher productivity means reduced wastage and fewer journeys to site. This is further supported by anecdotal evidence of firms having an increased focus on planning for site operations in order to manage Health and Safety and therefore delivering in a more productive manner.

# Performance Framework Dashboard November 2021

## Executive summary

**Retrofit** is a priority for the Construction Leadership Council, with a request for the Government to work in partnership with industry to develop and deliver a long-term national retrofit strategy to decarbonise the 29 million homes in the UK. This should build on the Social Housing Decarbonisation Fund and the Green Homes Grant scheme, and encompass both social housing and the owner-occupied market. The carbon impact of such a programme will only increase with the post-COVID shift towards home working- a fact we can begin to see by observing increased domestic energy usage during 2020 (metric 17).

Reflecting on the sector's efforts here, the publication of the Construction Leadership Council's Retrofit Strategy was a milestone in being able to set out our vision for how this could be delivered efficiently and effectively.

This vision is now turning into action; the required qualifications for retrofit are being rolled out, with over 412 Trustmark **Retrofit Co-ordinators** trained to date (metric 12).

Continuing on the theme of capability development, there has been excellent progress made within profession bodies, led by the Construction Industry Council. Over 32 organisations have committed to a combined action plan to **build carbon literacy into their professional qualifications** and provide carbon literacy training in their continued professional development for already qualified professionals (metrics 7,8,24,25).

This means that overall, 450,000 professionals in the sector will be upskilled. Already leading the way on this are the Royal Institute of British Architects and the Royal Town Planning Institute (RTPI) who have both put in place plans to meet the 2025 target. In addition, the RTPI is already offering it's members the CPD accreditation on carbon literacy.

Next, we look ahead to next quarter, where we can expect to see progress made to

establish common metrics and product measurements for carbon impact (metrics 27 & 28)-**unprecedented collaboration continues between the steel, timber and concrete industries.**

Finally, the Association for Consultancy and Engineering is working with their members to capture an assessment of the **carbon 'designed out'** during the design phase of a scheme (metric 23).

Overall, there is much to be positive about as demonstrated by the figures and the qualitative feedback from our Business Champions. Following commitments made at COP26, there is still much to do.



# Section 1

# Performance Framework data

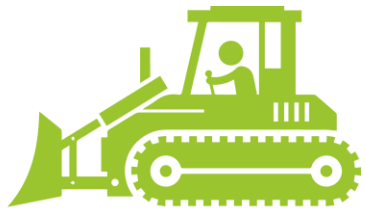
# Performance Framework Dashboard November 2021

## Priority 1

Accelerating the shift of the construction workforce to **zero emission vehicles** and **onsite plant**

## Performance framework target

**78% of diesel plant to eliminated from construction sites by 2035**



**TRANSPORT**

### Performance framework metric

1. Annual increase in non-diesel plant in use from plant hire firms<sup>1</sup>

1

Data under collection

### Performance framework metric

2. Every construction or client business over 250 staff to trial one zero diesel site by end of 2023<sup>1</sup>

2

Data under collection

### Performance framework metric

3. Annual increase in electric vans in construction fleet<sup>1</sup>

3

Data under collection

1. Has not previously been measured by the sector. Expect to have baseline established and progress shown as a % by v2 (spring 2022)

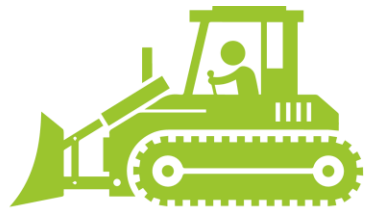
# Performance Framework Dashboard November 2021

## Priority 2

Optimise the use of **Modern Methods of Construction** and improved onsite logistics, in doing so reducing waste and transport to sites

## Performance framework target

Close the productivity gap between **Construction and economy average output per worker by 2035**



**TRANSPORT**

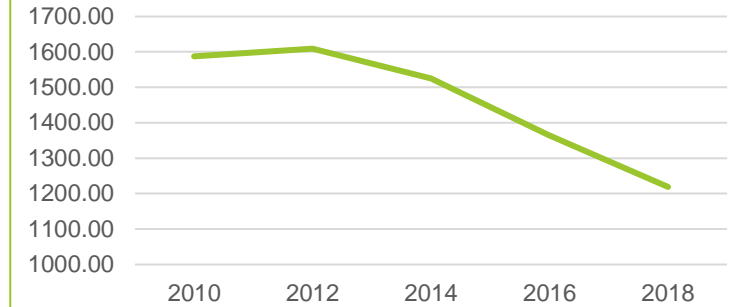
### Performance framework metric

4. Annual reduction in construction and demolition waste and excavation waste tonnes/£m output<sup>2</sup>

Data source: ONS

4

### Construction Waste - tonnes/£m



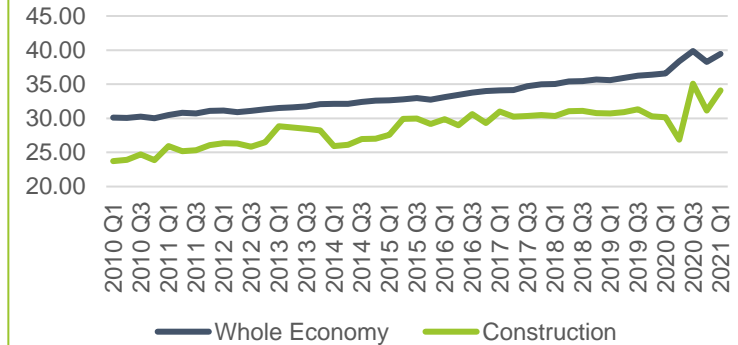
### Performance framework metric

5. Measure industry onsite productivity output/FTE<sup>2</sup>

Data source: ONS

5

### Output per worker (£/hr)



6

Data under collection

2. This has been drawn from a number of ONS data points

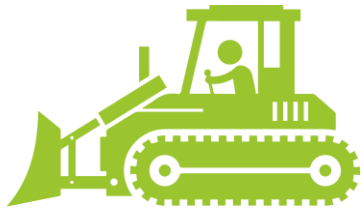


## Priority 3

Championing **developments** and **infrastructure** investments that both **enable connectivity with low carbon modes** of transport and design to incorporate readiness for zero emission vehicles

## Performance framework target

**From 2025, planning applications from the sector must connect to public / active transport and include EV charging where parking is provided**



# TRANSPORT

### Performance framework metric

7. Target: 100% of relevant qualifying bodies by January 2025, to put in place entrance requirements that include threshold carbon literacy/competence test

Data source: Construction Industry Council

7



### Performance framework metric

8. Target: 100% of relevant qualifying bodies by 2022, to put in place Continued Professional Development on climate change mitigation for all professional members

Data source: Construction Industry Council

8



### Performance framework metric

9. Annual increase in number of EV charging points installed by the sector<sup>3</sup>

9



3. Has not previously been measured by the sector. Expect to have baseline established and progress shown as a % by v2 (spring 2022)

# Performance Framework Dashboard November 2021

## Priority 4

Work with Government to **deliver retrofitting** to improve energy efficiency of the existing housing stock

## Performance framework target

**Working with Government deliver retrofitting to 27 million homes by 2040**



**BUILDINGS**

### Performance framework metric

**10.** National Retrofit Strategy: Deliver retrofitting to 855,000 homes by 2024, 12,300,000 homes by 2030, and 27,300,000 homes by 2040

10



### Performance framework metric

**11.** Establish industry 'quality scheme' routes and licensing consistent with PAS2035 and target annual increase in number of businesses registered<sup>4</sup>

11



### Performance framework metric

**12.** Number TrustMark Retrofit Coordinators targeting 30,000 by 2028

12



30k

Data source: TrustMark

4. Has not previously been measured by the sector. Expect to have baseline established and progress shown as a % by v2 (spring 2022)

# Performance Framework Dashboard November 2021

## Priority 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

## Performance framework target

**From 2025 all new buildings will be designed with low carbon heating solutions**



**BUILDINGS**

### Performance framework metric

**13.** Increase in Heat Pump installations per year to exceed Government target of 600,000 per year by 2028

13



### Performance framework metric

**14.** Number of buildings connected to low carbon heat networks and heat pumps installed as % of overall building stock<sup>5</sup>

14



### Performance framework metric

**15.** Annual increase in trained Heat Pump Installers (MCS Registrations) aiming for 30,000 by 2030

15



30k

Data source: MCS

5. Has not previously been measured by the sector. Expect to have baseline established and progress shown as a % by v2 (spring 2022)

## Priority 6

Enhancing the **energy performance** of **new and existing buildings** through higher operational energy efficiency standards and better building energy performance

## Performance framework target

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



**BUILDINGS**

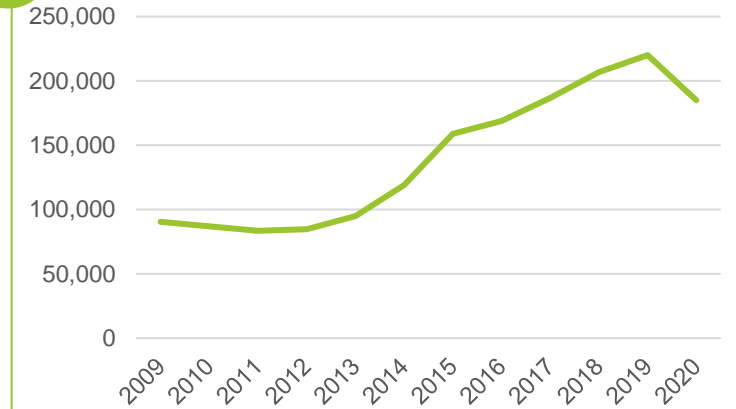
### Performance framework metric

**16.** Annual reduction in average energy requirements for new dwellings and existing (EPC based)

Data source: ONS

16

### A & B EPC Rated



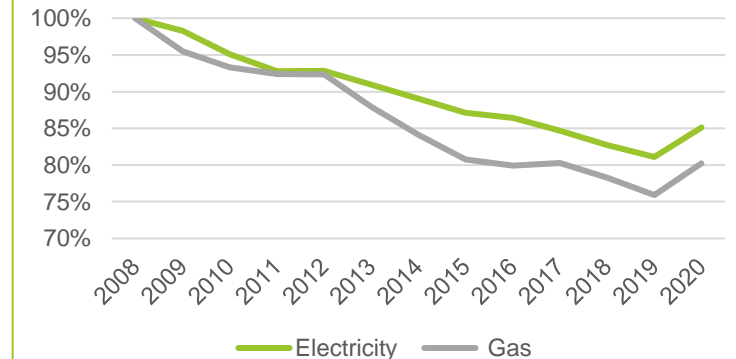
### Performance framework metric

**17.** Annual reduction in actual energy usage in Buildings

Data source: ONS

17

### Energy Consumption (2008=100)



# Performance Framework Dashboard November 2021

## Priority 7

Implementing **carbon measurement**, to support our construction projects in making quantifiable decisions to remove carbon

## Performance framework target

**Every client of the sector will be provided carbon data by 2030 to make informed lower carbon choices**



**CONSTRUCTION  
ACTIVITY**

### Performance framework metric

**18.** Measure % of relevant qualifying bodies to put in place entrance requirements/membership assessments to include threshold carbon literacy/competence test by January 2025.  
Data source: Construction Industry Council

18

14%

### Performance framework metric

**19.** Measure % of relevant qualifying bodies to put in place CPD on climate change mitigation for all members to be available from January 2022 and mandatory from January 2024  
Data source: Construction Industry Council

19

0%

### Performance framework metric

**20.** 40% of product portfolios to have EPDs by 2025 with 100% by 2030, targeting a baseline and annual updates from 2025<sup>6</sup>

20

### Performance framework metric

**21.** Every business or client over 250 staff in infrastructure to achieve PAS 2080 accreditation, monitor % coverage, target 100% by 2025<sup>6</sup>

21

Data under collection

6. Has not previously been measured by the sector. Expect to have baseline established and progress shown as a % by v2 (spring 2022)

# Performance Framework Dashboard November 2021

## Priority 8

Become world leaders in **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

## Performance framework target

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



CONSTRUCTION  
ACTIVITY

### Performance framework metric

**22.** All businesses or clients over 250 staff to identify, specify and trial a relevant low carbon alternative product on a project by the end of 2023<sup>7</sup>

### Performance framework metric

**23.** Measurement of total MtCO2 emitted based on client Net Zero advice and designs accepted<sup>7</sup>

### Performance framework metric

**24.** Target: 100% of relevant qualifying bodies to put in place, by January 2025 entrance requirements include threshold carbon literacy/competence test

Data source: Construction Industry Council

### Performance framework metric

**25.** Target: 100% of relevant qualifying bodies to put in place, by 2022, Continued Professional Development on climate change mitigation for all members

Data source: Construction Industry Council

22

23

24

25



<sup>7</sup>. Has not previously been measured by the sector. Expect to have baseline established and progress shown as a % by v2 (spring 2022)



# Performance Framework Dashboard November 2021

## Priority 9

Support development of innovative **low carbon materials**, as well as advancing low carbon solutions for **manufacturing production processes and distribution**

## Performance framework target

**By 2035 we will have reduced construction product emissions down by 66% from 2018**



**CONSTRUCTION  
ACTIVITY**

### Performance framework metric

**26.** Work with Government to have CCUS operational on 2 clusters by 2028

Data source: Government Construction Strategy

26

0%

### Performance framework metric

**27.** Establish 2018 baseline and target annual reduction in energy used in production kWh/Tonne for key product lines<sup>8</sup>

27

Data under collection

### Performance framework metric

**28.** Establish 2018 baseline and target annual reduction in embodied carbon CO<sub>2</sub>/Tonne for key product lines<sup>8</sup>

28

Data under collection

8. Has not previously been measured by the sector. Expect to have baseline established and progress shown as a % by v2 (spring 2022)



# ConstructZERO

The Construction Industry's Zero carbon change programme



Construction  
Leadership  
Council

[www.constructionleadershipcouncil.co.uk](http://www.constructionleadershipcouncil.co.uk)  
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