

Carbon Reduction Plan

Supplier name: **Bouygues UK Ltd**

Publication date: **26/10/21**

Commitment to achieving Net Zero

Bouygues UK is committed to achieving Net Zero emissions by 2050 for Scopes 1, 2 and Scope 3.

In order to achieve this commitment, we have further targeted to achieve net zero as early as 2025 for scopes 1 and 2.

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced. Carbon reduction has been business priority through our Sustainable Development agenda for many years with company-wide resource involved as well as dedicated individuals to this matter. In 2020, an actual strategy has been developed to respond to the growing climate emergency and in 2021, an action plan has been developed. Given the above, a 2019 baseline sets a sensible starting position to capitalise the benefits of our company's commitments and efforts, prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

Baseline Year: 2019

Additional Details relating to the Baseline Emissions calculations.

We have been measuring our Scope 1 and 2 emissions since 2015 and each year we have improved our level of confidence in the completeness of the data.

However, this does mean that aggregate levels have shown increases because of gathering extra data, despite continual improvement. For example, the increase in Scope 1 emissions between 2019 and 2020. Our improved tools for data capture will allow future reporting to be in line with our carbon vision.

We are not yet in a position to fully quantify our Scope 3 emissions on all construction projects with the technical data available for all materials used in the process, that is an objective for this year. Apart from our grey fleet, all of our Scope 1 and 2 energy usage, and hence emissions, is calculated from actual data, with no estimates.

We use the official Defra conversion factors to calculate our emissions.

Our data comes from:

- Metered gas usage
- Metered electricity usage
- Fuel purchases



- Expenses claims
- In-vehicle telemetry
- Waste portals
- Metered water usage
- Staff surveys

Our Scope 1 and 2 data and Net Zero Commitment exclude energy used by us in the delivery of services to clients in so far as that energy is used in client premises without sub-metered supplies.

Baseline year emissions: 2019

EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	16,656 tCO ₂ e
Scope 2	60 tCO ₂ e
Scope 3 (Included Sources)	<ul style="list-style-type: none"> • GHG : 6 - Business Travel & Accommodation • GHG : 5 - Waste Generated in Operations <p>This equates to 836 tCO₂e*</p> <ul style="list-style-type: none"> - The availability of data for employee commuting (GHG : 7), upstream transportation (GHG : 4) and downstream transportation (GHG : 9) is not currently captured. We are implementing tools to allow the capture of this data in 2022. - GHG : 7 - The nature of our project locations and modes of employee transportation has meant that we need to redesign our toolkit to capture this information and has been implemented in 2021 for reporting in our 2021 data. - GHG : 4 - The nature of our construction business includes a significant amount of materials and goods, purchased from a wide range of suppliers and delivered to an extensive number of individual sites throughout the UK. For this reason, category 4 information under the GHG protocol is not available for the stated year and cannot be assessed with standard ratios. For 2021 onward, the calculation of Category 4 would be captured in our detailed carbon emissions for each local site, taking into account the origin of the materials/goods purchased as well as the delivery address of each product. - GHG : 9 – Downstream transportation of our sold products is not relevant in the Construction industry where our “products” are attached to the land, Further research will be undertaken to refine whether this category is an absolute zero or only negligible.
Total Emissions	17,552 tCO₂e



Current Emissions Reporting

Reporting Year: 2020	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	19,884 tCO ₂ e
Scope 2	26 tCO ₂ e
Scope 3 (Included Sources)	<ul style="list-style-type: none"> • GHG : 6 - Business Travel & Accommodation • GHG : 5 - Waste Generated in Operations <p>This equates to 543 tCO₂e*</p> <ul style="list-style-type: none"> - The availability of data for employee commuting (GHG : 7), upstream transportation (GHG : 4) and downstream transportation (GHG : 9) is not currently captured. We are implementing tools to allow the capture of this data in 2022. - GHG : 7 - The nature of our project locations and modes of employee transportation has meant that we need to redesign our toolkit to capture this information and has been implemented in 2021 for reporting in our 2021 data. - GHG : 4 - The nature of our construction business includes a significant amount of materials and goods, purchased from a wide range of suppliers and delivered to an extensive number of individual sites throughout the UK. For this reason, category 4 information under the GHG protocol is not available for the stated year and cannot be assessed with standard ratios. For 2021 onward, the calculation of Category 4 would be captured in our detailed carbon emissions for each local site, taking into account the origin of the materials/goods purchased as well as the delivery address of each product. - GHG : 9 – Downstream transportation of our sold products is not relevant in the Construction industry where our “products” are attached to the land, Further research will be undertaken to refine whether this category is an absolute zero or only negligible.
Total Emissions	20,453 tCO₂e



Emissions reduction targets

In order to continue our progress to achieving Net Zero, we have adopted carbon reduction targets, based on the following corporate programmes:

- Connect 2025
- Net Zero Target
 - Scope 1 & 2 - Net Zero by 2025
 - Scope 3 – 30% by 2030
- Carbon Vision – Connect 2025 ‘Planet’ Objectives

Annual Objectives – 2021

1

Target	Metric
To have 100 EVs or ultra low emissions vehicles in the company fleet	Count to reach 100 or more

2

Target	Metric
To reduce the total carbon footprint of BYUK for Scopes 1 and 2 by 5% in 2021 compared to 2020.	BYUK footprint for 2021 to be at least 5% lower than for 2020, in absolute terms/in terms of kg/£turnover

3

Target	Metric
To work with our supply chain partners and others to derive our Scope 3 footprint, to establish 2021 as our baseline for Scope 3 emissions.	To derive a total Scope 3 footprint for BYUK for 2021 using our Carbon data capture toolkit ‘One Click LCA’.

4

Target	Metric
To develop a project dashboard (monthly/quarterly) for each client showing where they could reduce the carbon in the design	Evidence of the offer being made to 100% of clients.

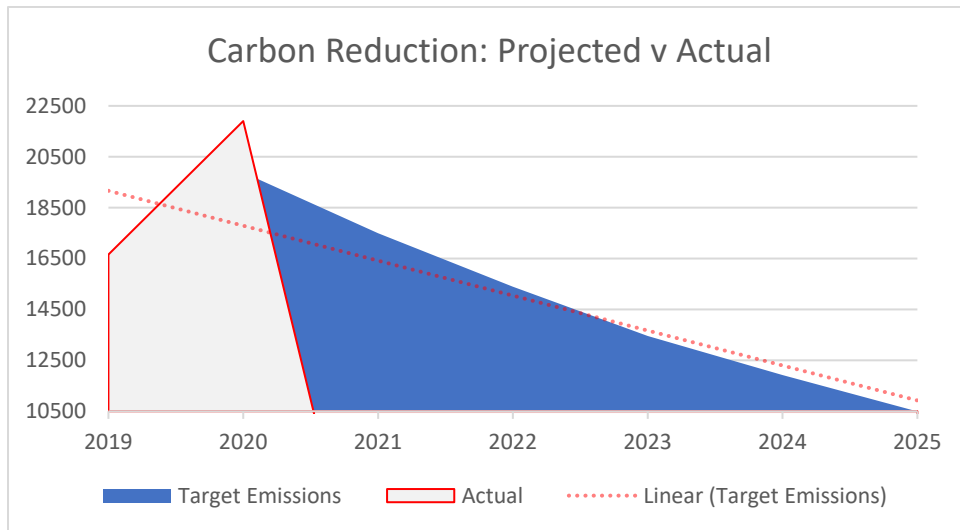
5

Target	Metric
To determine the carbon footprint of the proposed design of building	Evidence of the carbon footprint being assessed and how we can reduce that for the client in the design and build phase.

All 2021 Objectives are measured throughout 2021 and be reported against performance in 2022.



Progress against these targets can be seen in the graph below:



Carbon Reduction Plan - Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed and, or ongoing and implemented since the 2019 baseline. The carbon emission reduction achieved by these schemes equate to a 60% reduction against the 2019 baseline and the measures will be in effect when performing the contract

Reduced Vehicle Journeys

The largest contribution to our Scope 1 and 2 emissions comes from fuel used in our commercial fleet and company car fleet. Recognising that the most effective way to reduce carbon emissions from vehicles is to reduce the number of journeys and total distance covered, we have introduced several approaches to reduce the miles we cover. These include:- improved logistics, vehicle-sharing, and using digital technologies to reduce the need for face-to-face meetings, we are even able to undertake some site audits remotely.

Electrification of Fleet

We have started to replace the diesel vans in our commercial fleet with Electric Vehicles (EVs) and have to date introduced 33 EVs, around 10% of the fleet. In early 2021 we introduced an amended company car policy designed to encourage staff who are entitled to a company car to opt for Ultra Low Emission Vehicles. With manufactures developing EV options for larger vehicles we anticipate full electrification of our commercial fleet by 2025.



Improved Driving Efficiency

We have made online training available on driving efficiently and safely, this is available free of charge to all members of staff. We have installed advanced vehicle telemetry in all of our commercial vehicles. This provides real-time data on location, helping us to send the most appropriate vehicle to call-outs, but also information on how the vehicle is being driven. This enables us to develop a culture of efficient driving and also to provide additional targeted training.

ISO:50001

We have implemented an energy management system certified to ISO:50001 for the head office premises that we occupy and manage. We have incorporated an advanced intelligent metering solution that produces real-time energy audits using self-learning algorithms.

ISO:14001

We operate an Environmental Management System certified under ISO:14001 that covers all of our managerial and operational activities.

Low Carbon Site Compounds

Following a successful trial of dispersed metering and sensor technology that reduced energy usage in a typical construction site compound by 40% we are now looking to adopt this approach as our standard model for new projects.

We have also trialled the use of solar PV lighting for site compounds and will be looking to utilise these two approaches in combination to drive down site carbon emissions.

In the future we hope to implement further measures such as:

Cultural Change

Attitudes and behaviours are a vital part of reducing carbon through changing the way we work. One mechanism we will use for achieving this is to go through the process of being accredited as an Energy Conscious Organisation (ENCO) – a scheme overseen by ESTA and The Energy Institute.

In line with our carbon vision 2030 we have implemented a mandatory staff training module on climate awareness at both global and UK levels.

Supplier Engagement

This process is already under way but is a complex and long-term programme. We are seeking to work with our suppliers to raise awareness and to both help them reduce their own carbon footprints and to agree changes to products and services that enable us to meet our contractual obligations in a low-carbon way.

In 2022 we are introducing supply chain awareness training in association with the 'Supply Chain Sustainability School'.

Provision of EV Charging Points

We will be working with clients to try and ensure that every location that we work out of has at least one charging point for EVs.

We will install EV charging points at all Bouygues UK offices



2025 Objectives & Targets

1. Reduce our greenhouse gas emissions

Target **Net Zero** for Scopes 1 & 2

Reduce the carbon footprint of IT by 15%

100% Fleet transition to electric and hybrid

100% of Offices to be utilising renewable energy sources

2. Reduce our upstream footprint

Eliminate all **single use plastic** from procurement

Introduce **low carbon products** and **recycled products** on all schemes

3. Create a low carbon & sustainable mindset

Deploy learning module to **100% of our staff and supply chain**

Review and monitor carbon impact at all stages (selection to completion) for 100% of our projects

4. Support our clients net-zero transition

Carbon strategy formalised for 100% new projects

Biodiversity plan for 100% new projects and contracts

Produce **Client Carbon Project Plan** to offer alternative lower carbon intensive solutions through design stages (low carbon concrete, recycled steel, low carbon products) for all schemes

5. Develop a focused Scope 3A action plan to achieve 30% reduction by 2030

A 4 step philosophy and action plan that researches, establishes, engages and integrates through our project delivery in the following options;

- Eco Design
- Site Operations and Logistics
- Material resources – waste reduction
- Material resources – material of limited carbon
- Timber construction
- Supply chain partnerships



Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier:

Rob Bradley

CEO

Date: 26/10/21

¹ <https://ghgprotocol.org/corporate-standard>

² <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

³ <https://ghgprotocol.org/standards/scope-3-standard>

