

CARBON REDUCTION PLAN

Supplier name: Bouygues UK Ltd | Publication date: 24.10.22



A. 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.

B. Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions.

Baseline emissions are the reference point against which emissions reduction can be measured.

Due to the variety of Greenhouse gases and their different Global Warming Potentials, they are communicated in Dioxide Carbon Equivalent (CO₂e).

BASELINE YEAR: 2019

[Additional Details relating to the Baseline Emissions calculations.](#)

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

For year 2019 and for Scopes 1&2, our data comes from:

- Billing from energy providers for our Sites and Offices electricity consumptions
- Billing from energy providers for gas usage on Sites and in offices
- Recorded logs from off-road Fuels deliveries
- Claimed mileage on company cars (BweegView)
- Fuels logs from our third party on-road Fleet managers for our corporate fleet
- FM reports for refrigerant leaks
- UK Government conversion factors for company reporting of greenhouse gas emissions (DBEIS)

For year 2019 and for Scope 3, our data comes from

- Waste portals - Smartwaste (GHG5)
- Expense claims on Business Travel/Mileage (GHG6)
- UK Government conversion factors for company reporting of greenhouse gas emissions (DBEIS)

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	(tCO2e)
Scope 1	1,033 tCO2e
Scope 2	1,291 tCO2e
Scope 3 (Included Sources)	<ul style="list-style-type: none"> • GHG: 4 – Upstream Transportation and Distribution <i>Data not available for 2019*</i> 888 tCO2e • GHG: 5 – Waste Generated in Operations 47 tCO2e • GHG: 6 – Business Travel <i>Data partially available for 2019**</i> 808 tCO2e • GHG: 7 – Employee Commuting 503 tCO2e • GHG: 9 – Downstream Transportation and Distribution <i>Not Applicable</i> <p>This equates to 2,246 tCO2e</p> <p><i>GHG: 9 – Downstream transportation of our sold products is not relevant in the Construction industry where our “products” are attached to the land.</i></p> <p><i>* in order to build consistency in the figures and report on a comparable scope, emissions levels that are not available for a specific year are estimated based on the closest available year pro-rated to the turnover of Bouygues UK.</i></p> <p><i>** Business Travel related to claimed mileage in personal cars is available for 2019. Nevertheless, Business Travel related to Hotel/Train/Flights is not and follows the rule described in * above.</i></p>
Total Emissions	4,570 tCO2e

C. Interim Emissions Footprint

In 2020, a strategy was developed to respond to the growing climate emergency and our Energy Management System (EnMs) was developed.

REPORTED INTERIM YEAR: 2020

[Additional Details relating to the Reported Year Emissions calculations.](#)

In 2020 and further to the development of our EnMs, some additional data became available and complemented our available set of data. In other occasions our data collection system was improved, leading to more accuracy and robustness.

These changes are highlighted below in **bold** in order to identify them from 2019.

For year 2020 and for Scopes 1&2, our data comes from:

- **Smart Metering of our Sites and offices electricity consumptions**
- **Metered gas usage on sites and in offices**
- Recorded logs from off-road Fuels deliveries
- Claimed mileage on company cars (BweegView)
- Fuels logs from our third party on-road Fleet managers for our corporate fleet
- FM reports for refrigerant leaks
- UK Government conversion factors for company reporting of greenhouse gas emissions (DBEIS)

For year 2020 and for Scope 3, our data comes from

- Waste portals - Smartwaste (GHG5)
- Expense claims on Business Travel/Mileage (GHG6)
- UK Government conversion factors for company reporting of greenhouse gas emissions (DBEIS)

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: 2020

Emissions Total	(tCO ₂ e)
Scope 1	815 tCO ₂ e
Scope 2	1,259 tCO ₂ e
Scope 3 (Included Sources)	<ul style="list-style-type: none"> • GHG: 4 - Upstream Transportation and Distribution <i>Data not available for 2020*</i> 968 tCO₂e • GHG: 5 - Waste Generated in Operations 187 tCO₂e • GHG: 6 - Business Travel 626 tCO₂e • GHG: 7 - Employee Commuting 364 tCO₂e • GHG: 9 - Downstream Transportation and Distribution <i>Not Applicable</i> <p>This equates to 2,144 tCO₂e</p> <p><i>GHG: 9 - Downstream transportation of our sold products is not relevant in the Construction industry where our "products" are attached to the land.</i></p> <p><i>* in order to build consistency in the figures and report on a comparable scope, emissions levels that are not available for a specific year are estimated based on the closest available year pro-rated to the turnover of Bouygues UK.</i></p>
Total Emissions	4,570 tCO ₂ e

D. Current Emissions Reporting

In 2021, an action plan was developed for our business with a focus on “understanding carbon” company wide, to all staff, at all levels and from all disciplines. In the same year, and given the weight of our projects’ scope 3, it was decided to get equipped with robust data capture tools in alignment with our industry recognised standard BSEN15978:2011.

Again in 2021, our engagement with the Science Based Target Initiative let us to refine our baseline, approach and trajectory towards Net Zero 2050.

REPORTING YEAR: 2021

Additional Details relating to the Baseline Emissions calculations.

In 2021 and further to our progress made into understanding our Scope 3 emissions, some additional data became available and complemented our available set of data. In other occasions our data collection system was improved, leading to more accuracy and robustness.

These changes are highlighted below in **bold** in order to identify them from 2020.

For year 2021 and for Scopes 1&2, our data comes from:

- Smart Metering of our Sites and offices electricity consumptions
- Metered gas usage on sites and in offices
- **Supplier’s sales data from off-road Fuels suppliers**
- **Integrated SAP module for claimed mileage on company cars (Concur)**
- Fuels logs from our on-road third party Fleet managers for our corporate fleet
- FM reports for refrigerant leaks
- UK Government conversion factors for company reporting of greenhouse gas emissions (DBEIS)

As described above, 2021 is the year where BYUK got equipped with robust tools to capture our projects’ carbon footprints. BYUK acquired a number of licenses with One Click LCA, a globally recognised leader in Life Cycle Assessments, bringing more confidence and data to our reporting process. In 2021, our approach to Grey Fleet also evolved, capturing more data in regards to mileage (engine size, origin and destination of travel...). These actions has extensively streamlined our reporting exercise.

For year 2021 and for Scope 3, our data comes from

- **Bills of quantities for our projects (GHG4)**
- **Transportation modes for products deliveries (GHG4)**
- **RICS Whole Life Carbon Assessment for the Built Environment – Default Transport Scenario for UK Projects (GHG4)**
- Waste portals – Smartwaste (GHG5)
- Expense claims on Business Travel/Mileage (GHG6)
- **Purchasing portals and Business Travel platforms – Egencia (GHG6)**
- UK Government conversion factors for company reporting of greenhouse gas emissions (DBEIS)

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.

REPORTING YEAR EMISSIONS: 2021

Emissions Total	(tCO2e)
Scope 1	1,019 tCO2e
Scope 2	1,450 tCO2e
Scope 3 (Included Sources)	<ul style="list-style-type: none"> • GHG: 4 - Upstream Transportation and Distribution 1,155 tCO2e • GHG: 5 - Waste Generated in Operations 125 tCO2e • GHG: 6 - Business Travel 672 tCO2e • GHG: 7 - Employee Commuting 293 tCO2e • GHG: 9 - Downstream Transportation and Distribution <i>Not Applicable</i> <p>This equates to 2,245 tCO2e</p> <p><i>GHG: 9 - Downstream transportation of our sold products is not relevant in the Construction industry where our "products" are attached to the land.</i></p>
Total Emissions	4,713 tCO2e

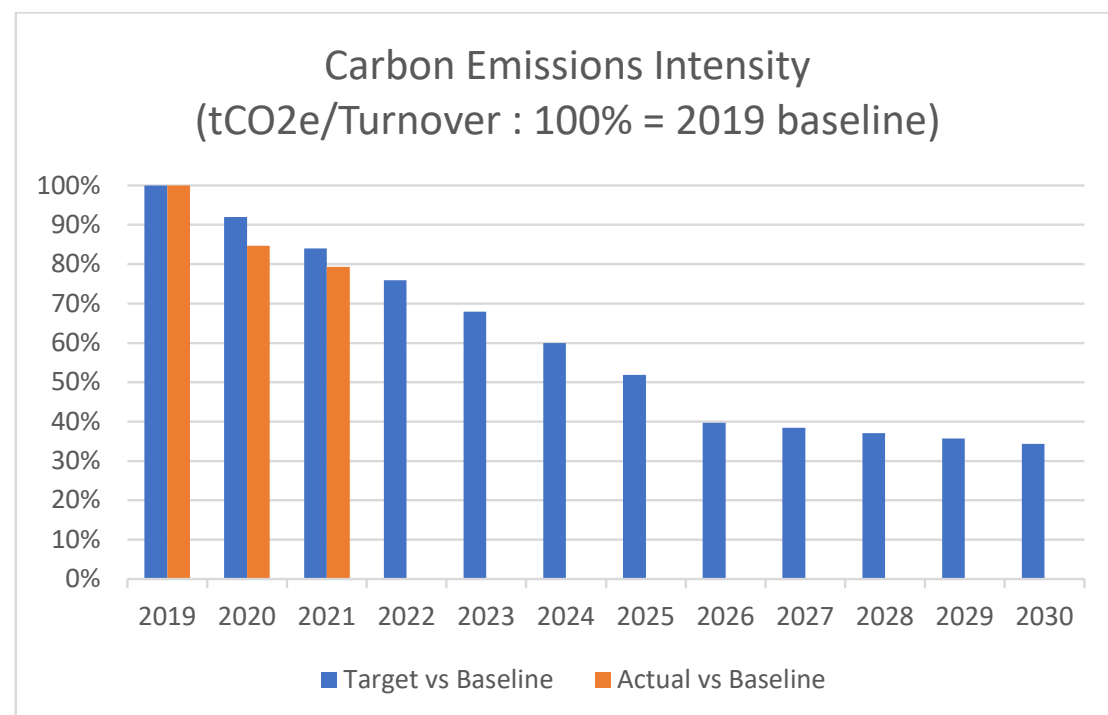
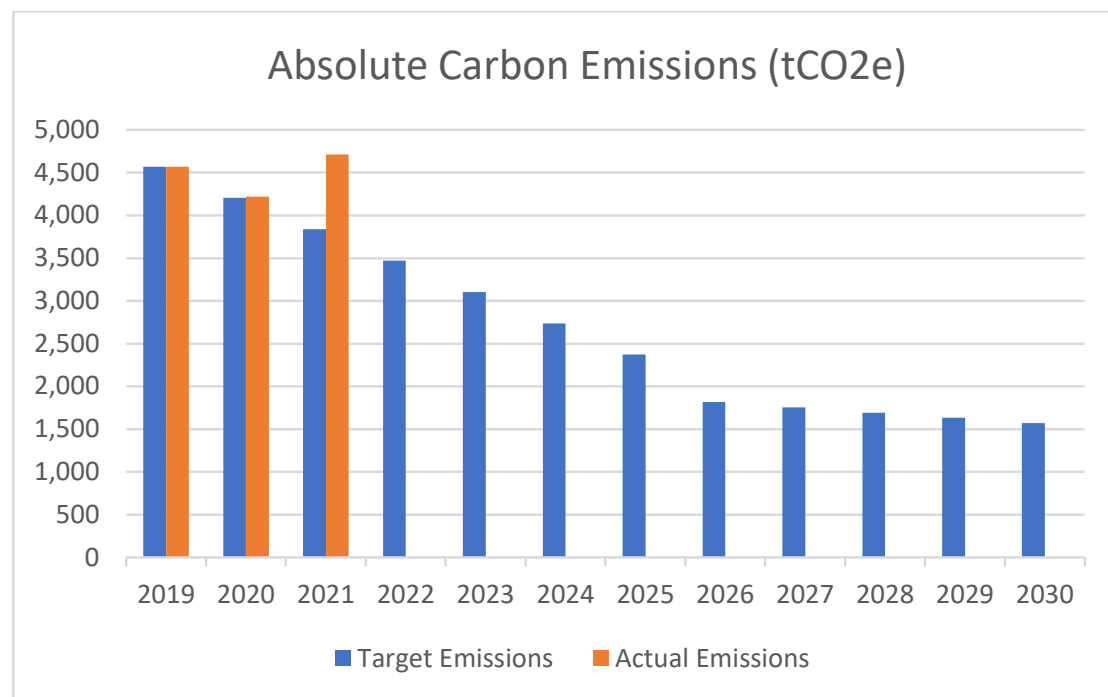
E. Emissions reduction targets

In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets.

- Scope 1 & 2 - Net Zero by 2025
- Scope 3 - 30% by 2030

We project that carbon emissions will decrease over the next five years to 1,817 tCO₂e by 2026. This is a reduction of 61% against the reported figures in 2021.

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



F. Carbon Reduction Projects

Completed Carbon Reduction Initiatives

Bouygues UK's turnover is fluctuating yearly as it takes more or less shares of a market. It is recognised that the items reported above are intimately correlated with the level of turnover of our business. Considering our Carbon Intensity and given a constant turnover, here below are the results of our Carbon Reduction Projects:

The following environmental management measures and projects have been completed or implemented since the 2019 baseline. Considering a constant turnover, the carbon emission reductions achieved by these schemes equate to 946tCO₂e, a 21%ge reduction against the 2019 baseline and the measures will be in effect when performing the contract.

ISO:14001

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

ISO:50001

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

Smart Technologies on Site compounds

Bouygues UK trialled smart technologies and metering equipment on its site compounds. These systems comprising of dispersed metering and sensor technology have proven to reduce 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 as a mandatory requirement for all our sites.

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.

Electrification of Fleet (Company car policy)

In 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.

Electrification of Fleet (Vans)

We have started to develop a replacement scheme for the diesel vans in our commercial fleet. They will progressively become Electric Vehicles (EVs) towards our target of Net Zero 2025 for Scopes 1 & 2.

Reduced Vehicle Journeys

From 2019, our Flexible Working policy has evolved and is now enhanced, giving more opportunity for our staff to work from home and organise their work without the daily need of commuting to our offices. This measure associated with the development and adoption of Digital tools has dramatically reduced the Employee Commuting carbon emissions.

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

Cultural Change and Carbon Literacy

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 reduction vision we have implemented a mandatory staff training module on climate awareness at both global and UK levels.

Engagement with SBTi

Science-based targets show companies how much and how quickly businesses need to reduce their GHG emissions to prevent the worst impacts of climate change, leading them on a clear path towards decarbonization. By guiding companies in science-based target setting, SBTi enables them to tackle climate change while seizing the benefits and boosting their competitiveness in the transition to a net-zero economy. Bouygues have now engaged with the SBTi and is “committed” to its carbon reduction targets. The next steps as an “approved” partner will bring even benefits to our business and towards Net Zero.

Sustainable Employee Commuting and Business Mileage

We hope to implement a Mileage Expense Claim policy which reinforces and praises good driving practices through a financial rebalancing. Mileage in cars above a certain level of CO₂e might not benefit from the Expense Claim policy and mileage undertaken in Ultra Low Emission Vehicles will see their Mileage claim rate been uplifted.

In parallel to the implementation of the policy, we are investigating the opportunity to give our staff the ability to shift their personal cars to electric vehicles more easily. This could be through finance options or an equivalent of our already existing Cycle to Work scheme, adapted to the purchase of an electric car.

Provision of EV Charging Points

In order to accelerate our shift towards a fully electrified commercial fleet, Bouygues UK will make sure 100% of its sites and offices are equipped with a dual twin EV charging point.

Smart Technologies on Site compounds

The measures trialled in 2021 are becoming mandatory and 100% of our sites will be equipped with smart technologies. 2No systems have been shortlisted, BY-Pulse and GAIA, bringing in different ways carbon benefits

Supply Chain Engagement – Awareness

In 2022 we are introducing supply chain awareness training in association with the ‘Supply Chain Sustainability School’ as well as a Carbon Reporting module in order to help us capture better our Supply Chain scopes 1 & 2.

Green Energy

Bouygues UK will use the services of a partner broker in order to procure 100% Green energy on all its sites and offices. This will reinforce the demand for the production of low carbon energy in the UK and will minimise the carbon emissions of our business after all the measures implemented to reduce our energy consumptions.

Projects' Carbon Reduction Plans

We will develop Carbon Reduction Plans for all our projects, identifying key contributors for the early stages of our project and making sure actions are implemented on all our projects at all stages to minimise their carbon emissions

Waste Reduction / Packaging

We will eliminate single use plastic from our procurement via take back or loop schemes in addition to make sure 100% of our plastic waste is made from recycled plastic and recyclable.

We will reinforce our approach to waste reduction through trainings and awareness, particularly following the Zero Avoidable Waste framework.

Supply Chain Engagement - Products

We will reach out to our top suppliers in order to investigate with them their ability to supply at scale low carbon products for our industry as well as bio-sourced products, all of these maximising recycled content and recyclability as well as good practices in the manufacturing industry. This engagement will be reflected in our Sustainable Procurement policy.

G. 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: 24.10.22



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>