

CARBON REDUCTION PLAN

Supplier name: Bouygues UK Ltd | Publication date: 12.05.23



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.
 - Reduce by 30% our scope 3 emissions by 2030
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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 Carbon Dioxide Equivalent (CO₂e).

In 2021, a company wide action plan was developed for our business with a focus on “understanding carbon” 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.

In alignment with our SBTi engagement, we have established year 2021 as our baseline.

Figures for 2019 and 2020 are disclosed later in this publication for information under Interim years as well as 2022 as current year.

BASELINE 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 from previous years 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 was 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 regard to mileage (engine size, origin and destination of travel...). These actions have extensively streamlined our reporting exercise.

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

- **Bills of quantities for our projects (GHG2, GHG4)**
- **One Click LCA EPD database (GHG2, GHG10)**
- **Scopes 1&2 information (GHG3)**
- **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)**
- **One Click LCA WLCA assessment model (GHG2, GHG 11, GHG12)**
- 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: 2021

Emissions Total	(tCO2e)		
Scope 1	1,201 tCO2e		
Scope 2	1,544 tCO2e		
Scope 3 (Included Sources)	Detail Scope 3		
	GHG1	1. Purchased goods and services*	9,098
	GHG2	2. Capital goods	89,167
	GHG3	3. Fuel- and energy related activities (not included in scope 1 or scope 2)	917
	GHG4	4. Upstream transportation and distribution	4,715
	GHG5	5. Waste generated in operations	125
	GHG6	6. Business travel	672
	GHG7	7. Employee commuting	293
	GHG8	8. Upstream leased assets	-
	GHG9	9. Downstream transportation and distribution	-
	GHG10	10. Processing of sold products	39,905
	GHG11	11. Use of sold products	84,526
	GHG12	12. End-of-life treatment of sold products	3,955
	GHG13	13. Downstream leased assets	-
	GHG14	14. Franchises	-
	GHG15	15. Investments	-
	Total	233,373	
<p>GHG: 9 – Downstream transportation of our sold products is not relevant in the Construction industry where our “products” are attached to the land.</p> <p>* 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.</p>			
Total Emissions	236,118 tCO2e		

C. Interim Emissions Footprint

Years 2019 and 2020 are listed here as interim as they have helped us to understand better our Carbon footprint leading to a robust year 2021 which is used as a baseline going forward and in alignment with our SBTi targets.

INTERIM YEAR: 2019

[Additional Details relating to the Reported Year 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.

INTERIM YEAR EMISSIONS: 2019

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Total Emissions	183,251 tCO2e																																																				

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

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**
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- Waste portals - Smartwaste (GHG5)
- Expense claims on Business Travel/Mileage (GHG6)
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INTERIM YEAR EMISSIONS: 2020

Emissions Total	(tCO ₂ e)																																																			
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Total Emissions	198,748 tCO₂e																																																			

D. Current Emissions Reporting

In 2022, Bouygues UK achieved a significant reduction on its carbon emissions on Scopes 1&2 after the implementation of its detailed action plan. Conclusions were also drawn from the exercise in order to benefit from the lessons learnt in regards to these scopes.

During the implementation of its Scopes 1&2 action plan, we also developed our Scope 3 strategies alongside awareness sessions to a majority of our staff. These Scope 3 strategies, complemented with action plans are becoming the blueprint of our carbon reduction towards 2030.

REPORTING YEAR: 2022

Additional Details relating to the Baseline Emissions calculations.

In 2022 our business developed a full awareness campaign where more than 250 workshops were delivered to our staff. From the understanding of Climate Change to the actual identification of the carbon emissions within our activities through proposals to reduce our carbon footprint, a wide range of topics were covered, leading to the definition of our Scope 3 strategies.

For year 2022 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)

For year 2022 and for Scope 3, our data comes from

- **Finance Extracts on Spent base (GHG1)**
- Bills of quantities for our projects (GHG2, GHG4)
- One Click LCA EPD database (GHG2, GHG10)
- Scopes 1&2 information (GHG3)
- 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)
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- 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: 2022

Emissions Total	(tCO2e)		
Scope 1	828 tCO2e		
Scope 2	443 tCO2e		
Scope 3 (Included Sources)	Detail Scope 3		
	2021		
	GHG1	1. Purchased goods and services	7,501
	GHG2	2. Capital goods	58,183
	GHG3	3. Fuel- and energy related activities (not included in scope 1 or scope 2)	815
	GHG4	4. Upstream transportation and distribution	4,842
	GHG5	5. Waste generated in operations	158
	GHG6	6. Business travel	889
	GHG7	7. Employee commuting	340
	GHG8	8. Upstream leased assets	-
	GHG9	9. Downstream transportation and distribution	-
	GHG10	10. Processing of sold products	35,786
	GHG11	11. Use of sold products	52,413
	GHG12	12. End-of-life treatment of sold products	2,720
	GHG13	13. Downstream leased assets	-
	GHG14	14. Franchises	-
GHG15	15. Investments	-	
	Total	163,647	
<p>GHG: 9 –Downstream transportation of our sold products is not relevant in the Construction industry where our “products” are attached to the land.</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	164,918 tCO2e		

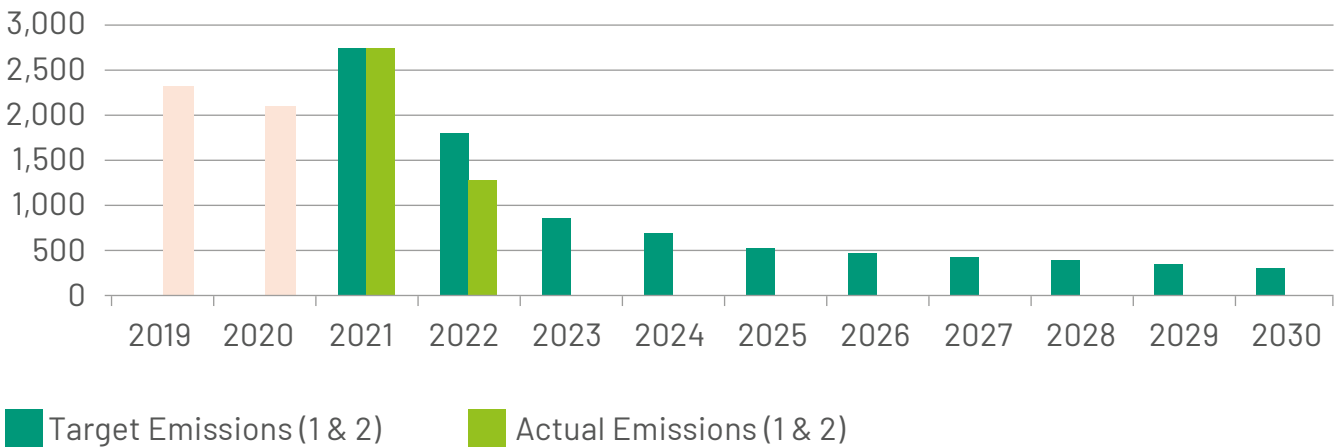
E. Emissions reduction targets

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, it is therefore sensible to consider absolute emissions as well as carbon intensity. In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets:

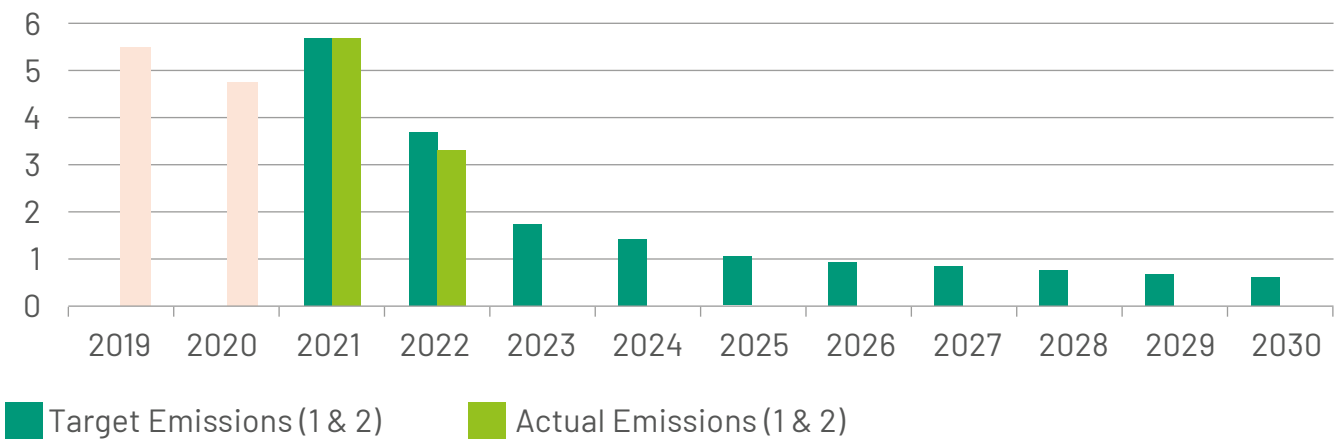
SCOPES 1 & 2 - NET ZERO BY 2025

We project that carbon emissions will decrease over the next five years to 419 tCO₂e by 2027. This is a reduction of 85% against the reported baseline figures of 2021.

Scopes 1 & 2 (in tCO₂e)



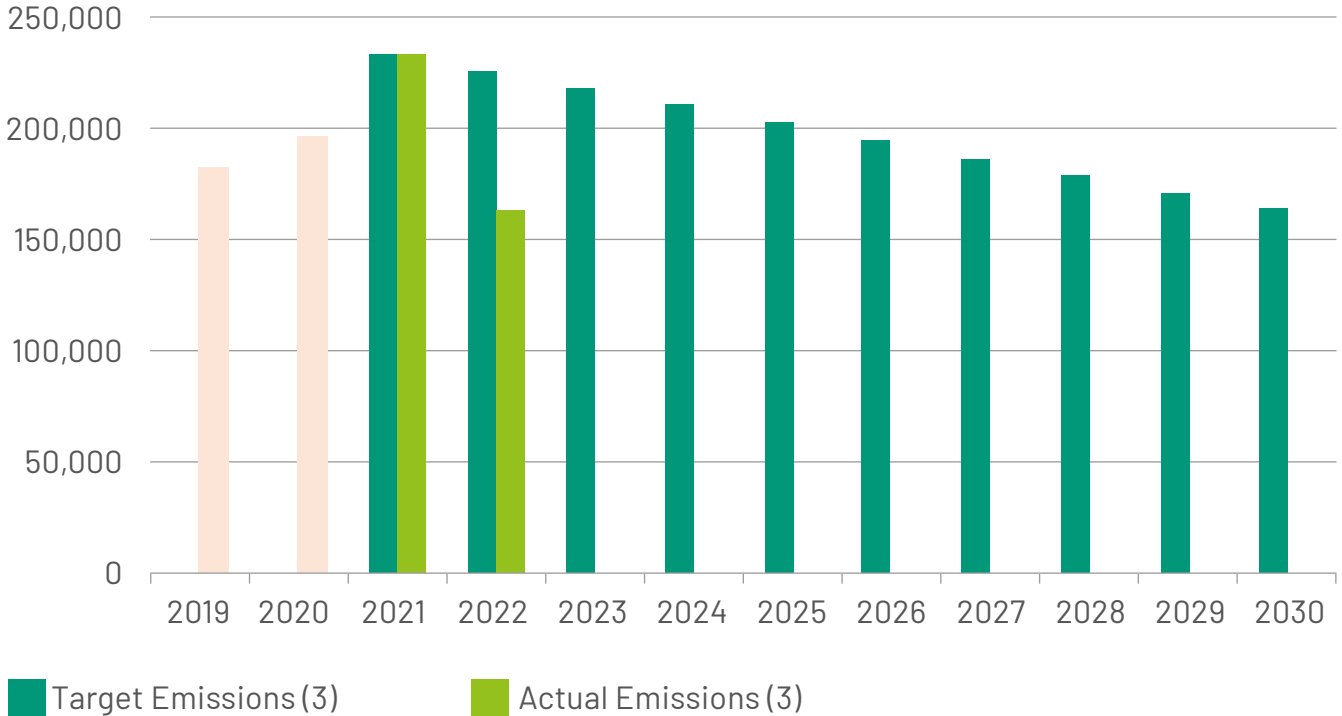
Scopes 1 & 2 - Intensity on Turnover (in tCO₂e/£m)



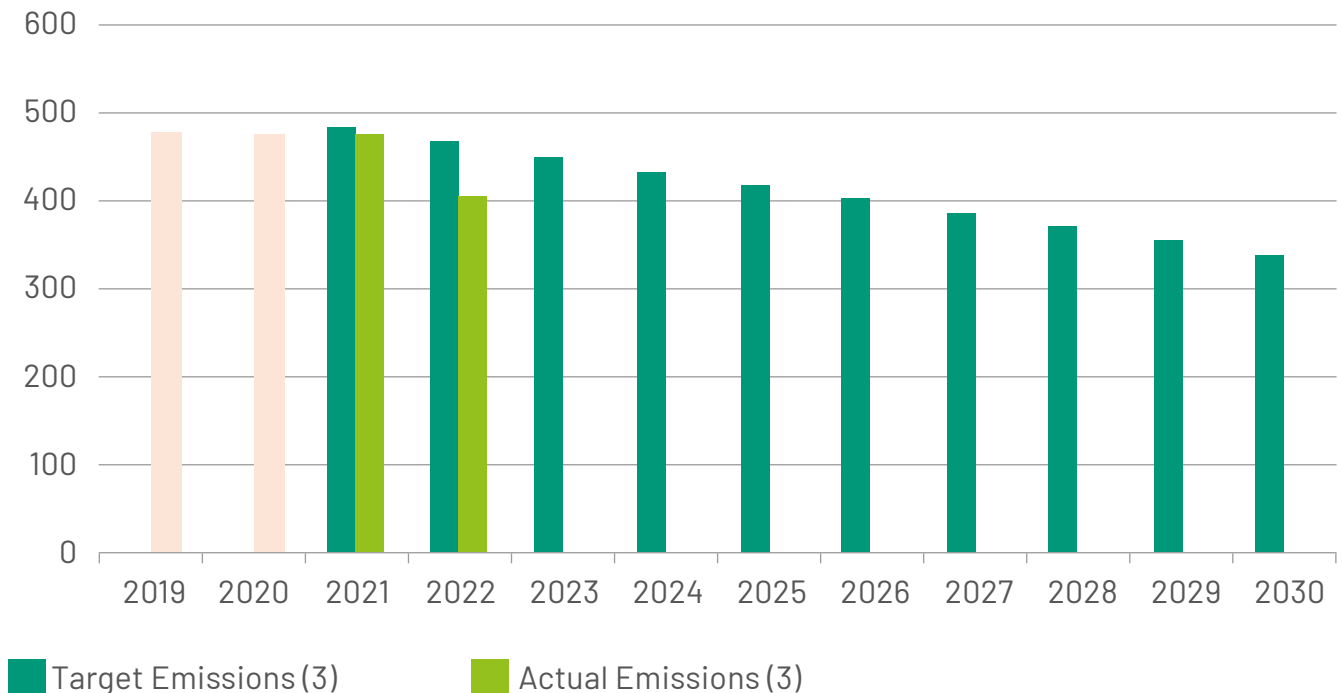
SCOPE 3 - 30% BY 2030

We project that carbon emissions will decrease over the next five years to 186,698 tCO2e by 2027. This is a reduction of 20% against the reported baseline figures of 2021.

Scopes 3 (in tCO2e)



Scopes 3 - Intensity on Turnover (in tCO2e/£m)



F. Carbon Reduction Projects

A. COMPLETED CARBON REDUCTION INITIATIVES

Our Carbon strategy is available on our [website](#).

The following environmental management measures and projects have been completed or implemented since the 2021 baseline.

- For Scopes 1&2, the carbon emission reductions achieved by these schemes equate to 1,474 tCO₂e, a -54% reduction against the 2021 baseline and -41% in intensity, the measures will be in effect when performing the contract.
- For Scope 3, the carbon emission reductions achieved by these schemes equate to 69,726 tCO₂e, a -30% reduction against the 2021 baseline and -15% in intensity, the measures will be in effect when performing the contract.

Corporate initiatives

ISO:14001

We operate an Environmental Management System certified under ISO:14001 that covers all 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.

Cultural Change and Carbon Literacy

Attitudes and behaviours are a vital part of reducing carbon through changing the way we work. One mechanism we use for achieving this is through the development and unrolling of a company training modules that have permitted the blueprint of our carbon reduction plans. These trainings modules are targeting 100% of our staff.

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.

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.

Early stage Carbon Analysis (LCA)

From the earliest stages, the projects perform a LCA in order to identify key contributors and ways to improve upon their carbon footprint. That LCA will feed into a Carbon Reduction Plan and will further be updated, capturing the project evolutions and good practices that are implemented by the team.

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 greater benefits to our business and towards Net Zero.

Projects’ Carbon Reduction Plans

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

Scopes 1&2 initiatives

Smart Technologies

Implement Smart Building (ByPulse/GAIA) on **100% of our Site and Offices** to monitor, understand and minimise our energy use

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.

Electrification of Plant

As electric plant become more available on the market, our projects will progressively towards electric plant on site and reduce the amount of fossil fuels that are used.

Biofuels

We will make use of Biofuels (HVO) on our site to minimise our CO2e emissions where Electric plant is still out of reach for specific uses.

Provision of EV Charging Points

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

Green Energy

Bouygues UK will use the services of a partner broker to procure 100% Green energy on all its sites and offices. This will reinforce the demand to produce 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.

Contribute to carbon removal and/or the restoration of carbon sinks

To offset 100% of our residual emissions for 2025.

Scope 3 initiatives

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.

Refurbishment / Retrofit projects

New builds are more carbon intensive than Retrofit/ Refurbishment projects. We intend to shift towards new business models, contributing to enhancing the lifespan and performance of existing buildings for non-negligible share of our activity.

Top contributors

A strong engagement with our supply chain as well as our R&D and Innovation departments will enable us to tackle our top contributors, namely concrete, steel and partitions.

B. FUTURE INITIATIVES

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

Scopes 1&2 targeted initiatives

Cabins performance

With the recognition that a major part of our energy is consumed within our own welfare, we will increase the energy performance of our site cabins through fabric improvement and system efficiencies to minimise their impact.

Innovation

Innovation is key to carbon reductions; we will implement alternative energy efficiency and recovery measures on our sites leading to subsequent carbon reductions.

Renewable energy generation

We will maximise free energy generation with the installation of solar panels on our sites.

Make best use of the grid

We will remove our reliance on generators with early connections to the grid. The use of generators will always be complemented by alternative mitigation measures (PV panels, power banks...)

Refrigerant leaks

We will develop and implement stricter maintenance routines on our assets to minimise refrigerant leaks in close collaboration our FM providers.

Scope 3 targeted initiatives

Lean Design

Minimising quantities of material through optimisation is the first step to carbon reduction. The hierarchy below should be followed wherever possible in order to achieve a reduction through design optimisation: build nothing, build less, build clever, build efficiently.

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 - Awareness

In 2022 we introduced supply chain awareness training in association with the 'Supply Chain Sustainability School' as well as a Carbon Reporting module to help us capture better our Supply Chain scopes 1 & 2. This will be further developed in 2023.

Supply Chain Engagement - Products

We will reach out to our top suppliers 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.

Timber Construction

Timber construction has a significantly reduced carbon impact in comparison with concrete. Our projects will integrate structural timber to minimise our carbon impact.

Low Carbon Materials

Through a cautious and sensible product selection we will integrate a higher percentage of recycled content as well as maximise the use of bio-sourced and renewable materials, significantly reducing the carbon footprint of the products that we install.

Ambitious energy strategies

Developing energy strategies and starting with the 'Fabric First' approach we will prioritise thermal insulation of the envelope as well as air tightness the energy demand of our projects, this will be further complemented by fossil fuel free efficient systems and free energy generation to make our buildings more autonomous.

Robustness of specified products

Our projects will identify opportunities to use materials that have a high durability / robustness and a longer lifespan.

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 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: 12.05.23



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>