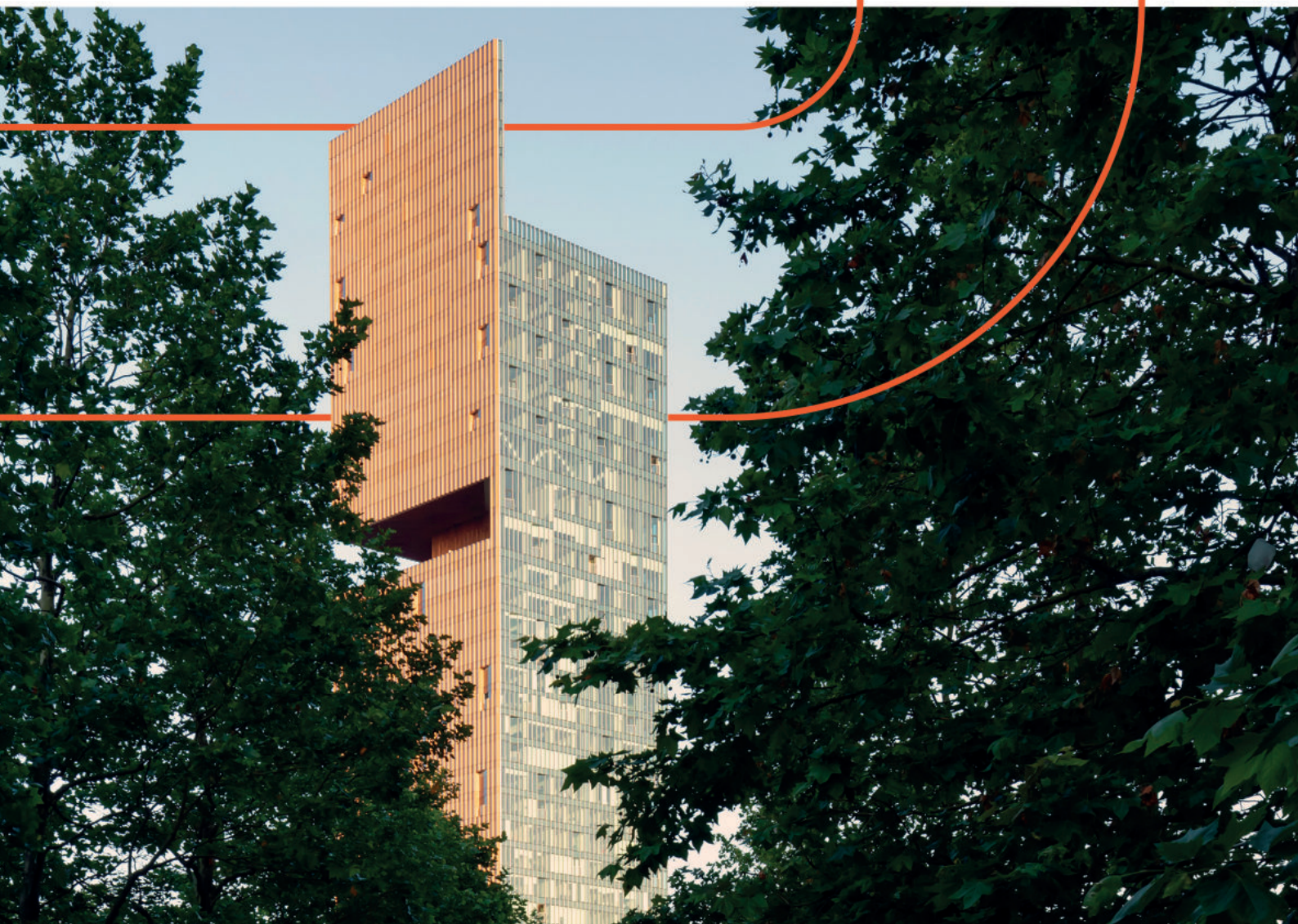


CARBON REDUCTION PLAN

SUPPLIER NAME: **BOUYGUES UK LTD**
PUBLICATION DATE: **24/04/2024**



A. COMMITMENT TO ACHIEVING NET ZERO

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

In order to achieve this commitment, we have further targeted to:

- Achieve Net Zero as early as 2025 for scopes 1 & 2.
- Reduce our scope 3 emissions by 30% by 2030

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 educate all staff, at all levels and from all disciplines. In the same year, and given the weight of our projects' scope 3 targets, it was decided to equip employees 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 (SBTi) allowed us to refine our baseline, approach, and trajectory towards Net Zero 2050.

In alignment with our SBTi engagement, we have established the 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 the current year.

Baseline Reporting Year: 2021

Additional details relating to the baseline emissions calculations

Since 2021, while striving to better understand 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.

In 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 reports 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 Bouygues UK became equipped with robust tools to capture our projects' carbon footprints. Bouygues UK 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 processes. 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 product 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 and 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 reported emissions: 2021

Emissions	Total (tCO _{2e})																																																				
Scope 1	1,201 tCO_{2e}																																																				
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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 baseline emissions calculations.

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

Our data for scopes 1 & 2 in 2019 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)
- Fuel reports 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)

Our data for scope 3 in 2019 comes from:

- Waste portals - Smartwaste (GHG5)
- Expense claims on business travel and mileage (GHG6)
- UK Government conversion factors for company reporting of greenhouse gas emissions (DBEIS)

Our scope 1 & 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

Emissions	Total (tCO _{2e})																																																				
Scope 1	1,033 tCO_{2e}																																																				
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Total emissions	183,251 tCO_{2e}																																																				

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.

In 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
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In 2020 and for scope 3, our data comes from:

- Waste portals - Smartwaste (GHG5)
- Expense claims on business travel and mileage (GHG6)
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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: 2020

Emissions	Total (tCO _{2e})																																																				
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Total emissions	198,748 tCO_{2e}																																																				

Reporting Year: 2021

[See Baseline emissions](#)

Reporting Year: 2022

Additional details relating to the baseline emissions calculations.

In 2022 our business developed a full awareness campaign where more than 25 workshops were delivered to our staff. From the understanding of Climate Change to the actual identification of the carbon emissions within our activities with proposals to reduce our carbon footprint. Through this workshop, a wide range of topics were covered, leading to the definition of our scope 3 strategies.

In 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 reports 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)

In 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)
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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 (tCO _{2e})																																																				
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D. CURRENT EMISSIONS REPORTING

In 2023, Bouygues UK achieved a significant reduction on its carbon emissions on scopes 1 & 2 after the continuous implementation and reinforcement of its detailed action plan.

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: 2023

Additional details relating to the baseline emissions calculations.

In 2023, our business continued to develop awareness campaigns, which were delivered to our staff to better understand and tackle our emissions. From the understanding of climate change to the actual identification of the carbon emissions within our activities with proposals to reduce our carbon footprint. Through this workshop a wide range of topics were covered, leading to the implementation of our scope 3 strategies through bespoke project Carbon Reduction Plans.

In 2023 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)

In 2023 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)
- One Click LCA WLCA assessment model (GHG2, GHG 10, 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.

Reporting year emissions: 2023

Emissions	Total (tCO _{2e})																																																				
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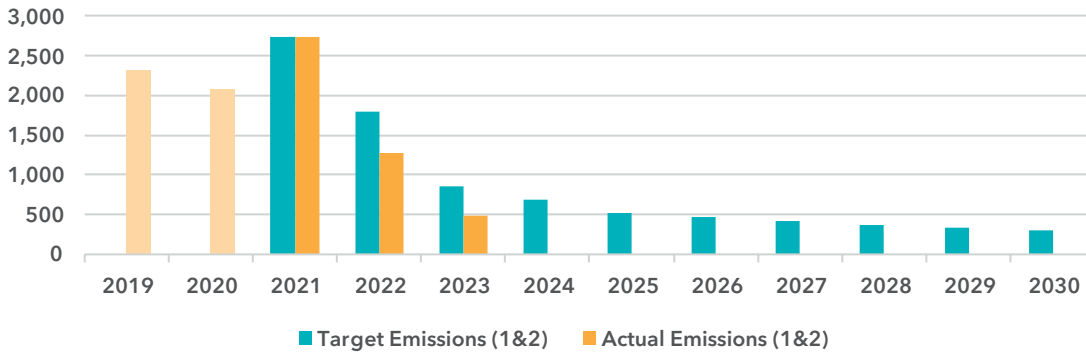
E. EMISSIONS REDUCTION TARGETS

Bouygues UK's turnover is fluctuating yearly from its success to secure market shares. It is recognised that the items reported above are closely linked 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:

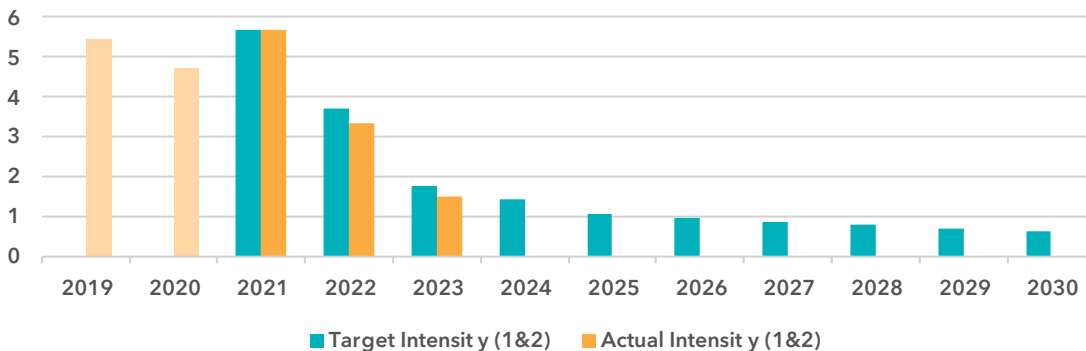
Scope 1 & 2 – Net Zero by 2025

We project that carbon emissions will decrease over the next five years to 377 tCO₂e by 2028. This is a reduction of 86% against the reported baseline figures of 2021.

Scope 1 & 2 (in tCO₂e)

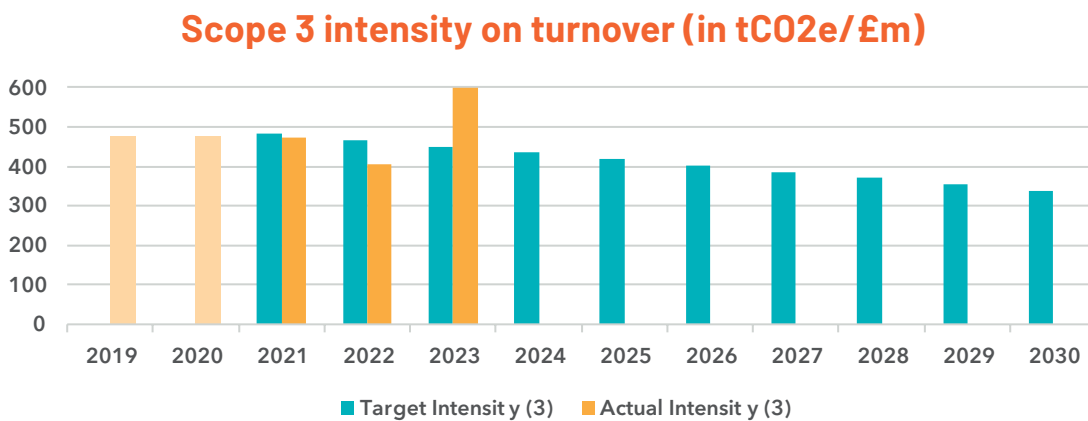
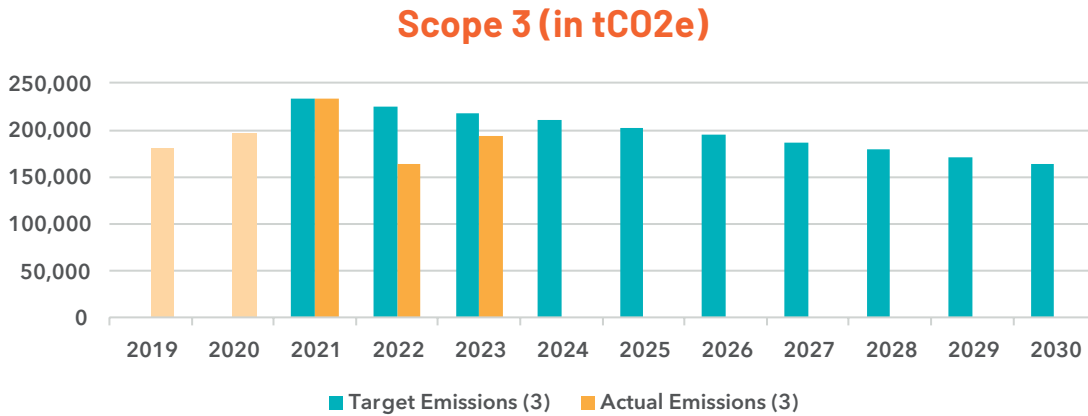


Scope 1 & 2 intensity on turnover (in tCO₂e/£m)



Scope 3 – 30% by 2030

We project that carbon emissions will decrease over the next five years to 178,919 tCO₂e by 2028. This is a reduction of 23% against the reported baseline figures of 2021.



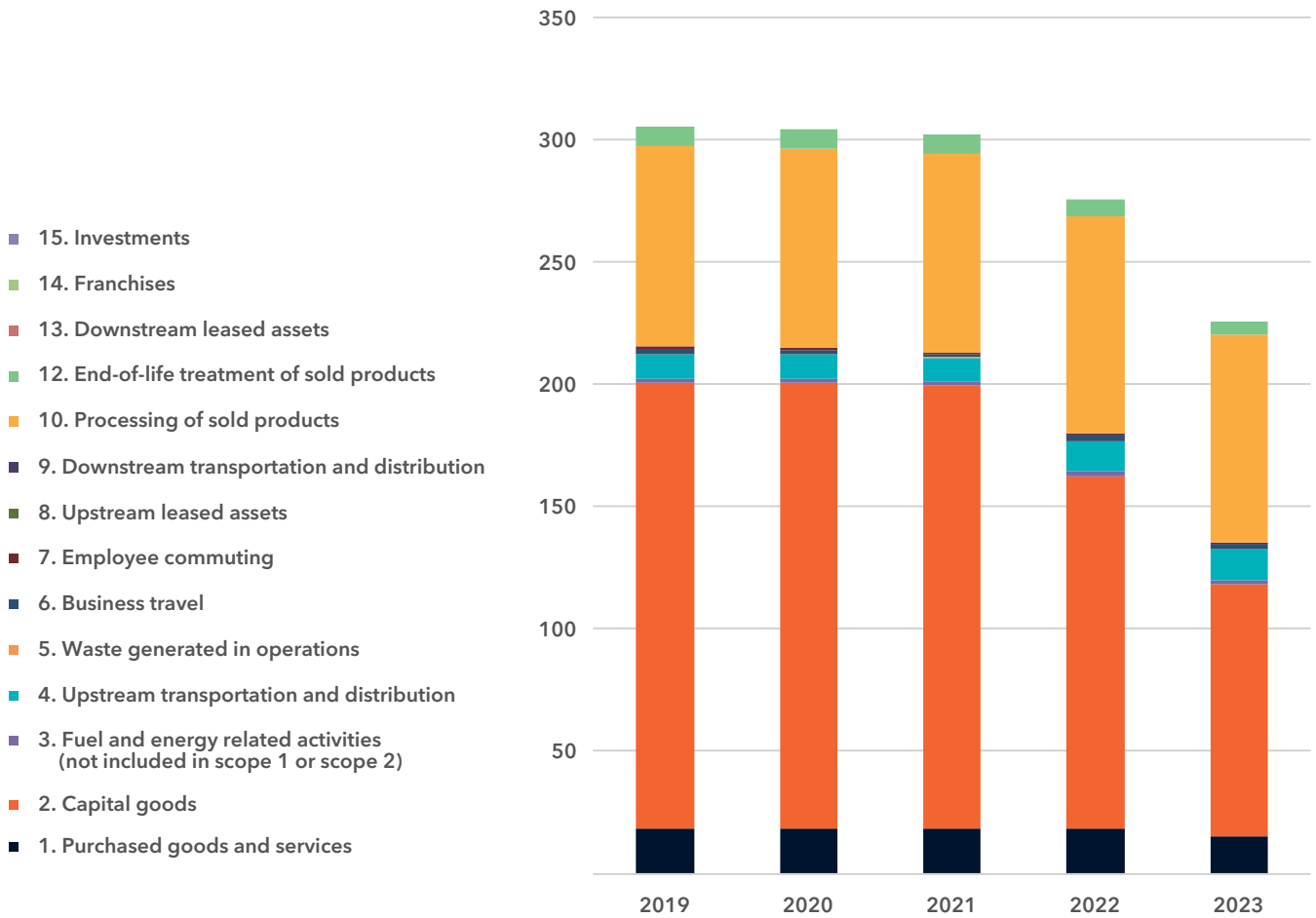
In 2023, we have witnessed and acknowledged the volatility of our scope 3 carbon emissions with the portfolio of projects we deliver to our clients. In other words, the amount of carbon linked to the design and construction of a specific archetype of buildings (e.g. hospitals, health and wellbeing...) can widely differ from another archetype (e.g. residential, schools...). This is particularly relevant to the operational energy, reflected in GHG 11, which is a significant share of our scope 3 emissions.

In 2023, our GHG 11 emissions figures integrate the operational energy of a public building (health and wellbeing) as well as a hospital projected to 60 years, compared with our 2021 baseline year which was made of residential projects only. It is worth noting that the operational energy of these even well performing archetypes reaches and amount of energy between 3 and 5 times higher than residential buildings due to the types of equipment they use in operation.

Taking into consideration the sensitivity of our scope 3 emissions (GHG11) to our portfolio of projects, we are still committing to building better and improve on the performance we have achieved in 2023 for these typologies.

The graph below gives some perspective on our scope 3 once these specific and portfolio sensitive emissions (GHG11) are removed, since 2019.

Scope 3 (exc. GHG11) (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 2,260 tCO₂e, a -82% reduction against the 2021 baseline and -74% in intensity and the measures will be in effect when performing the contract.
- For scope 3, the carbon emission reductions achieved by these schemes equate to 39,398 tCO₂e, a -17% reduction against the 2021 baseline and +18% in intensity and the measures will be in effect when performing the contract.

Corporate initiatives

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 decarbonisation. 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 engaged with the SBTi and submitted their carbon reduction targets in 2022. In 2023, the trajectory was approved by the SBTi.

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.

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 it 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 be updated further, capturing the project evolutions and good practices that are implemented by the team.

Scopes 1 & 2 initiatives

Smart technologies

Implement smart building measures (ByPulse/GAIA) on **100% of our sites 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.

Provision of EV charging points

To accommodate 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.

Electrification of plant

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

Make best use of the grid

We are removing our reliance on generators with early connections to the grid. The use of generators is always complemented by alternative mitigation measures (PV panels, power banks, peak shaving...)

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.

Green energy

Bouygues UK uses the services of a partner broker to procure 100% Green energy on all its sites and offices. This reinforces the demand to produce low carbon energy in the UK and minimises 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 towards Net Zero 2025.

Scope 3 initiatives

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.

Timber construction

Timber construction has a significantly reduced carbon impact in comparison with concrete. We are currently developing projects in timber in order to seize that opportunity. Where relevant, our projects will integrate structural timber to minimise our carbon impact.

Reduced vehicle journeys

Since 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 to commute to our offices. This measure associated with the development and adoption of digital tools has dramatically reduced the carbon emissions of our employees' commutes.

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.

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 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.

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 standard and uses the appropriate government emission conversion factors for greenhouse gas company reporting.

Scope 1 & 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) Standard.

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:



Fabienne Viala

Chair & CEO

Date: 24/04/2024

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>