



# Carbon Reduction Plan

Bouygues E&S Solutions Limited

PPN 06/21

## SCOPE:

This Carbon Reduction Plan captures carbon emissions and reduction commitments from our services-led and regeneration activities (internally referred to as FM, Energy and Highways & Local Government) of Bouygues E&S Solutions Ltd. This covers the services we deliver to our Central Government clients.

### A. Commitment to achieving Net Zero

Bouygues Energies & Services (Bouygues E&S) recognises both our duty to reduce the impacts of our business but also to leverage our expertise and skills to drive innovation and robust solutions that help our clients reduce their carbon emissions in-line with national aspirations for a Net Zero economy by 2050.

**Bouygues E&S have set ambitious carbon targets to become Net Zero for Scopes 1 and 2 by 2025 and to achieve 30% reduction in (upstream) Scope 3 carbon emissions by 2030.**

Our continued commitment to delivering on the United Nations' Sustainable Development Goals is testament to the collaborative approach we have with our colleagues, clients, and stakeholders to implement new systems and technologies with sustainability firmly embedded as the key design consideration.

To manage and achieve carbon reduction targets, Bouygues E&S have an extensive system of monitoring and reporting tools that allow us to identify the key efficiency areas for improvement. This includes detailed audits for sites, asset management registers linked with energy that monitor the performance of assets, an Energy Management System certified to ISO:50001, and a Sustainability Reporting Tool that reports and analyses environmental sustainability using smart dashboards at project, business unit and corporate levels – in real-time.

Also, as part of our commitment to supporting our clients to achieve their own carbon reduction objectives, we provide tailored reporting detailing our contribution to their Scope 3 emissions and have also put in place Carbon Reduction Plans for each of our contracts and projects.

### 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.

Due to the variety of Greenhouse gases and their different Global Warming Potentials, our UK business unit emissions are calculated and communicated in Dioxide Carbon Equivalent (CO<sub>2</sub>e).

Our emissions data is reported in line with the Greenhouse Gas Protocol Corporate Accounting and Reporting Standard and Corporate Value Chain (Scope 3) Standard under the 'Operational Control' approach.



Our Carbon Baseline includes our greenhouse gas (GHG) emissions from the seven GHGs named by the Kyoto Protocol:

- Carbon Dioxide (CO<sub>2</sub>)
- Hydrofluorocarbons (HFCs)
- Methane (CH<sub>4</sub>)
- Nitrous Oxide (N<sub>2</sub>O)
- Nitrogen Trifluoride (NF<sub>3</sub>)
- Perfluorocarbons (PFCs)
- Sulphur Hexafluoride (SF<sub>6</sub>)

### **Baseline Year: 2019**

Baseline Emissions Calculations:

We have been measuring our Scope 1 and 2 emissions since 2014 and each year we have improved our level of confidence in the completeness of the data. We continue to improve our carbon accounting methodologies in line with best practice. We also continue to ensure our carbon emission inventory accurately reflects any structural changes that affect the scope or boundary of our emissions. As such we need to re-baseline periodically to ensure we apply a consistent approach between years to accurately reflect our decarbonisation journey.

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 (listed in the inaugural Bouygues E&S PPN 06/21) report. Our improved tools for data capture allows reporting to be in line with our carbon vision.

All our Scope 1 and 2 energy usage, and hence emissions, is calculated from actual data, with no estimates.

Our data comes from:

- Metered gas usage
- Metered electricity usage
- Fuel purchases
- Expenses claims
- In-vehicle telemetry
- Waste portals
- Metered water usage
- FGas maintenance records
- Staff surveys

Our Scope 1 and 2 data and Net Zero Commitment excludes energy used by us in the delivery of FM services to clients as far as that energy is used in client premises without sub-metered supplies. This has been separately estimated via desktop energy audits.

We are not yet able to accurately measure all our Scope 3 emissions (particularly the Purchased Goods and Services category) but have used recognised/proven methodologies to quantify all of our Scope 3 emissions.



**Baseline Year Emissions: 2019** (Revised Reporting Period: Jan 01 – Dec 31)

Emissions Total	(tCO2e)
<b>Scope 1</b>	<b>1850.6 tCO2e</b>
<b>Scope 2</b>	<b>148.8 tCO2e</b>
<b>Scope 3</b> (Included sources)	<ul style="list-style-type: none"> <li>• GHG: 4 – Upstream Transportation and Distribution <i>Date not available for 2019*</i> <b>888 tCO2e</b></li> <li>• GHG: 5 – Waste Generated in Operations <b>7034.1 tCO2e</b></li> <li>• GHG: 6 – Business Travel <b>1106.3 tCO2e</b></li> <li>• GHG: 7 – Employee Commuting <b>1448 tCO2e</b></li> <li>• GHG: 9 – Downstream Transportation and Distribution</li> </ul> <p><b>BYES do not sell products and therefore do no transport or distribute said products. Any small deliveries to sites are captured by our fleet data and reported as Scope 1 or 2 emissions</b></p> <p><b>This equates to 10476.4 tCO2e</b></p>
<b>Total Emissions</b>	<b>12475.9 tCO2e</b>



## C. Interim Emissions Footprint

**Reporting Interim Year: 2021** (Jan 01 – Dec 31)

Reported Year Emissions Calculations:

Emissions Total	(tCO2e)
<b>Scope 1</b>	<b>2254.7 tCO2e</b>
<b>Scope 2</b>	<b>103.4 tCO2e</b>
<b>Scope 3</b> (Included sources)	<ul style="list-style-type: none"> <li>• GHG: 4 – Upstream Transportation and Distribution <b>1155 tCO2e</b></li> <li>• GHG: 5 – Waste Generated in Operations <b>6864.8 tCO2e</b></li> <li>• GHG: 6 – Business Travel <b>529.3 tCO2e</b></li> <li>• GHG: 7 – Employee Commuting <b>734 tCO2e</b></li> <li>• GHG: 9 – Downstream Transportation and Distribution</li> </ul> <p><b>BYES do not sell products and therefore do no transport or distribute said products. Any small deliveries to sites are captured by our fleet data and reported as Scope 1 or 2 emissions</b></p> <p><b>This equates to 9282.1 tCO2e</b></p>
<b>Total Emissions</b>	<b>11640.2 (tCO2e)</b>

## 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.

Again in 2021, our engagement with the Science Based Target Initiative (at Bouygues E&S group level) led us to refine our baseline approach and trajectory towards Net Zero 2050.

**Reporting Year: 2022**

Baseline Emissions Calculations:

For year 2022 and for Scopes 1 and 2, our data comes from:

- Company Car: Fuel Card and Expenses.
- Commercial Vehicle: Fuel Card, Masternaut Telemetry System.
- Project Fuel: Invoices and Reports.
- Refrigerant Gases: FGas Registers.
- Building Gas: Monthly Report for Becket House.
- Purchased Electricity.

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

- Business Travel: Business Milage (Car Allowance or Company Car), Train, and Air Travel.
- Water.
- Waste.
- Embodied Carbon: Spend-Based Method.
- Supplier Emissions: Captured in the Supply Chain Sustainability School (SCSS) Reporting Tool.
- Employee Commuting: Captured at Site Level.
- Hotel Stays.

Emissions Total	(tCO2e)
<b>Scope 1</b>	<b>1780.2 tCO2e</b>
<b>Scope 2</b>	<b>96.3 tCO2e</b>
<b>Scope 3</b> (Included sources)	<ul style="list-style-type: none"> <li>• GHG: 4 – Upstream Transportation and Distribution <b>900.9 tCO2e</b></li> <li>• GHG: 5 – Waste Generated in Operations <b>5293.2 tCO2e</b></li> <li>• GHG: 6 – Business Travel <b>418.3 tCO2e</b></li> <li>• GHG: 7 – Employee Commuting <b>430.2 tCO2e</b></li> <li>• GHG: 9 – Downstream Transportation and Distribution</li> </ul> <p><b>BYES do not sell products and therefore do no transport or distribute said products. Any small deliveries to sites are captured by our fleet data and reported as Scope 1 or 2 emissions</b></p> <p><b>This equates to 7042.6 tCO2e</b></p>
<b>Total Emissions</b>	<b>8919.1 tCO2e</b>



## E. Emissions Reduction Targets

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

- Scope 1 and 2 – Net Zero by 2025.
- Scope 3 – 30% by 2030.

We project that carbon emissions will decrease over the next five years to 1059.5 tCO<sub>2</sub>e by 01/01/2026.

This is a reduction of 41.7% against the reported figures in 2022.

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

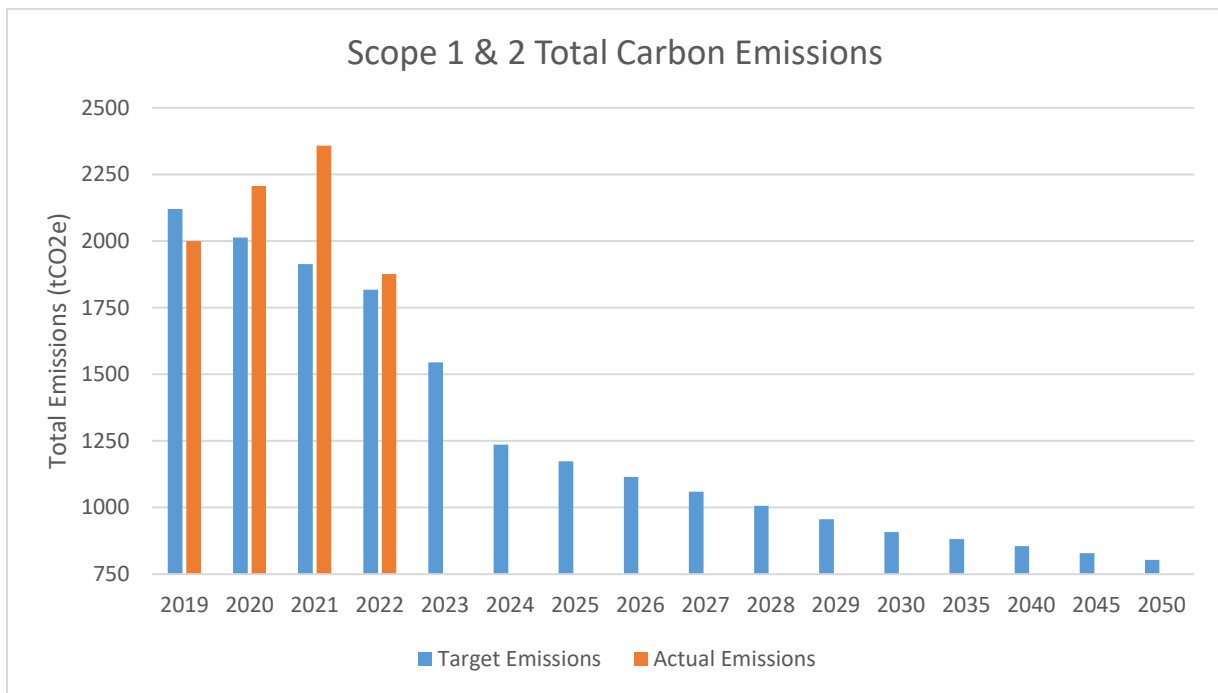


Table 1: actual reductions observed against annual carbon reduction targets

## F. Carbon Reduction Projects

### COMPLETED CARBON REDUCTION INITIATIVES

As an ISO 14001 and ISO 50001 certified organisation, environmental management and energy management are integrated into our management systems and business processes which are utilised in our service delivery

- **Governance:** To deliver against our carbon reduction ambitions, we have amended our Governance processes and structure – this is a multi-level strategy that includes the appointment of a Sustainable Development Director (Board Member), the merging of the procurement and sustainability departments, the creation of a senior leadership climate steering committee and the expansion of the corporate sustainability department. Additionally, every Bouygues E&S employee has 'Contributing towards Climate strategy' within their performance review.
- **Cultural Change and Carbon Literacy:** Attitudes and behaviours are a vital part of reducing carbon through changing the way we work. One mechanism we are using 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 various mandatory staff training modules on climate awareness at both global and UK levels (continued below).

**Decarbonisation of Fleet:** 25% of Bouygues E&S fleet are now electric or hybrid. To support this transition, we have installed >90 EV charging points equating to a 55% coverage on our premises. We have successfully introduced the use of 15 E-cargo bikes across our sites for shorter journeys (which enabled us to remove small vans previously used) and to promote wellbeing. Additionally, we monitor driver behaviour via telemetry systems and ensure that any unsustainable driving practices are flagged, and educational actions are taken.

- **Procurement of Green Energy:** Bouygues E&S procures 100% Green energy for its London HQ. This reinforces the demand for the production of low carbon energy in the UK and minimises the carbon emissions of our business after all the measures implemented.
- **Sustainable Travel Policy:** Bouygues E&S have developed and implemented a sustainable travel policy – this includes restriction of domestic air travel and to international destinations that are accessible by rail, the company car policy also mandates hybrid or EV for company cars.
- **Client Carbon Reduction Plans:** 100% (new and existing) of our FM contracts have a Carbon Reduction Plan in place based on the client's objectives and implement actions in accordance. These are complimented by GAP analysis studies against client carbon reduction aspirations.
- **Staff Engagement:** 92% of Bouygues E&S staff have completed our first carbon awareness training. 76% of Bouygues E&S staff have completed our second carbon awareness training. We have also begun the roll out of the "Climate Fresk" (an external interactive workshop that provides employees with information/insights on the fundamental science behind climate change and encourages a change in behaviour towards more sustainable habits). To engage frontline staff that are less connected





online, we deliver Climate Toolbox Talks with the support of our employee-led Green Network.

- **Supply Chain Engagement:** this process is already under way but is a complex and long-term programme. We seek to work with our supply chain partners to raise awareness, to help them reduce their own carbon footprints as well as to agree changes to services that enable us to meet our obligations in a low-carbon way and suggest low carbon products.
- **Calculation of Scope 3 Emissions:** Bouygues E&S have merged their Environment & Sustainability Team with the Procurement Team. Together, the team has produced several PowerBI dashboards to better understand our carbon impact and how to influence our supply chain to support us in the reduction of all-parties carbon footprints.

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

- **Continued Engagement with Supply Chain Partners:** Key suppliers to be submitting carbon reports on a regular basis using the Carbon Reporting Portal. Bouygues E&S will continue to leverage our partnership with the Supply Chain Sustainability School to provide all employees and the supply chain access to online learning modules and a sustainability reporting tool that can support the supply chain's transition to a low carbon economy .
- **Biodiversity Projects:** Every FM contract or project where we are the principal contractor must undertake at least one biodiversity initiative. Where it is not possible on site, it will be acceptable to support offsite projects in the local community. To support this, we have created a biodiversity guidance document containing ideas on biodiversity projects that the site teams could replicate.
- **Offsetting Residual Emissions:** We are exploring the use of offsetting projects for residual emission sources that we are unable to immediately decarbonise, whilst continuing to reduce our emissions by exploring green gas alternatives and applying a Net Zero Carbon criteria for energy asset renewals & additions to the portfolio. We are committed to ensuring that we only use the highest quality offsets that are as local to our operations as possible and add social value.



## 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<sup>1</sup> and uses the appropriate Government emission conversion factors for greenhouse gas company reporting<sup>2</sup>.

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) Standard<sup>3</sup>.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors.

Signed on behalf of the Supplier:



Amelle Mestari  
*Procurement & Sustainable Development Director*

Date: 18.01.23