

Carbon Management Plan

18 August 2021

Last reviewed: 15 November 2024



Context

Pellikaan Construction Ltd is committed to reduction of carbon emissions associated with its construction design and build operations.

We believe that climate change is a major threat to our planet and must be tackled by the global business community and society across the planet. We understand that, if the level of carbon dioxide increases in our atmosphere and weird weather patterns become the norm, business as usual will no longer be an option.

Pellikaan Construction Ltd will play its part in tackling climate change and we aim to show leadership and contribute positively to the UK government's own legally binding target to achieve net zero greenhouse gas (GHG) emissions by 2050. This target is to reduce carbon emissions by 80% by 2050 against emission levels from 1990.

This Carbon Management Plan sets out how we will achieve ongoing reductions in carbon outputs and the interventions and monitoring systems we will put in place.

In deploying this plan, Pellikaan Construction Ltd will:

- Promote sound environmental management policies and practices in all its works programmes.
- Increase awareness of the need to cut carbon emissions amongst our clients, employees, subcontractors, and our wider supply chain.
- Implement policies and procedures that contribute to a reduction in our carbon footprint.
- Minimise waste and pollution, operating effective waste management procedures.
- Reduce consumption of fossil fuels.
- Reduce water consumption.
- Operate a green procurement policy – which gives preference, as far as practicable, to products and services which cause least harm to the environment and incorporates a clear focus on the decarbonisation of goods, materials and services we purchase.
- Avoid use, wherever possible, of environmentally damaging substances, materials, and processes.
- Provide clients with expertise on how to operate and maintain buildings in an environmentally sensitive manner.
- Encourage modes of transport by employees and subcontractors, wherever possible, which minimise environmental impact.

Measuring our carbon footprint

Measuring our carbon management performance is critical and we will, therefore, set clear baselines from which to do this.

Pellikaan Construction Ltd will set baselines and measure greenhouse gas emissions from:

- Scope 1 Direct emissions – covering construction activities in the UK owned or controlled by Pellikaan Construction Ltd that release emissions straight into the atmosphere. (E.g. covering plant and equipment, trucks onsite etc.)
- Scope 2 Energy indirect – covering emissions being released into the atmosphere associated with our consumption of purchased electricity, heat, steam, and cooling. These are indirect emissions that are a consequence of our activities, but which occur at sources we do not own or control.

- Scope 3 Other indirect – covering emissions that are a consequence of our actions, which occur at sources which we do not own or control and which are not classed as scope 2 emissions. (E.g. business travel by means not owned or controlled by our organisation, waste disposal, purchased materials or fuels.)

Baselines will be based on guidance for measurement of greenhouse gas emissions issued by the Department for Environment Food and Rural Affairs (defra) and the 2019 conversion factors it has issued via the internet at <https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019> These will reflect the current Pellikaan Construction Ltd 'Corporate Carbon Footprint'

Our approach to establishing a sound baseline will provide both a sound platform for targets and strengthen our green credentials.

Targets

Pellikaan Construction Ltd will set a GHG reduction target to be achieved by the calendar year ending 2030, with further targets from then applicable in three-year cycles. This will support our own transition to net zero in advance of 2050.

We will monitor performance against target on an annual basis and share progress with our stakeholders.

In setting our GHG reduction targets, we will:

- Improve cost efficiencies by identifying opportunities to increase resource and energy efficiency. We are conscious, for example, of energy price increases, some of which reflect market volatility – for example, due to the military conflict between Ukraine and Russia and in the Middle East.
- Enhance our brand recognition in the increasingly environmentally conscious construction marketplace, by demonstrating commitment to environmental sustainability.
- Demonstrate leadership to our subcontractors, supply chain and within the wider marketplace.

Carbon management and reduction

The interventions we take will normally consist of:

- For works sites: Use of LED site lighting; Improved site cabin performance; Temporary use of solar PV on cabins; Use of heat pumps on site cabins; Use of grid connections to replace use of site diesel; Use of hybrid battery-enabled generators where grid connections to site are not possible; Use of recycled rainwater for washing facilities; Reduced water use and protection of water quality during construction and remediation on our sites; Reduce waste to landfill (particularly demolition and excavation waste); Less single use plastics (see our separate Single Use Plastics Policy).
- For buildings design: Proactive design to reflect energy efficiency (use of gas, water, electricity) and reduced carbon emissions and taking into account construction, mechanical and electrical considerations; Advising clients on alternative solutions to/ reduction of carbon-intensive materials such as concrete and steel and use of recycled and regenerative materials; Use of Building Information Modelling (BIM) for virtual building construction and to ensure that specifications are effective and avoid waste through inaccurate ordering of materials; Ensuring that our buildings generate high EPC ratings (at least 'B') through measures such as orientation (solar gain/ exposure), air tightness, effective M&E design, insulation, ventilation and air filtration.

- For our office: Use of LED PIR controlled lighting; Use of sleep modes for computers, printers and electronic equipment during day use and ensuring all are switched off overnight; Reduced use of paper via our fully electronic internal distribution and filing system.
- For business travel: Use of low emission company cars and transitioning to hybrid and fully electric cars and vans; Safe driver training; Car sharing amongst employees; Use of public transport where possible; Use of telemetry systems in vans to monitor vehicle utilisation, idling time and driver behaviour; Promoting cycling to site and to our Office as an option for employees and subcontractors; Allowing employees to work from home where this is effective and possible; Use of virtual meetings where possible – using technology such as Microsoft Teams, Zoom and Skype.

We will reduce GHG emissions via purchase, wherever possible, of electricity that comes from renewable sources under green tariffs – reflecting this in the Management Information which we produce each year. These tariffs will be certified under the independent certification scheme based on OFGEM's green supply guidelines.

Pellikaan Construction Ltd will also consider purchase of carbon credits, should this be required to speed up our transition to net zero by 2050. If we do so, we will only invest in credits of the highest integrity located in the UK which represent value for money. These must enhance biodiversity and support community wellbeing.

Training

We will train our employees in the requirements of this plan and its implementation in the workplace – doing so thoroughly at all levels in the business. Training will start at induction upon joining Pellikaan Construction Ltd, with refresher training taking place on a regular basis, and at least annually.

We will also identify and implement external training programmes, to ensure continued application of best practice. These will include, for example, CIOB courses and certified Carbon Literacy Training, which will be rolled out to all operational employees. This will increase awareness of carbon reduction strategies and techniques, and build personal commitment to tackling climate change.

Governance

We believe that clear leadership and collective responsibility is key to achieving our emissions targets. Our Board of Directors will, therefore, monitor performance on an annual basis (as indicated above) and all employees will be responsible for contributing towards our designated carbon reduction targets.

Overall responsibility for carbon management performance will sit with our Managing Director.

Reporting

Targets will be Key Performance Indicators (KPI's) for our business and integrated into the Pellikaan Construction Ltd Business Plan.

We will develop a Carbon Management Performance Dashboard, and our Directors will harness Management Information through this to monitor performance and ensure that this remains on track, with early and effective risk management and corrective action where this is necessary.

Review of this plan

Pellikaan will review and update (where latter necessary) this plan periodically and at least annually, ensuring continued effectiveness of our carbon management strategy.

Authorisation

This Carbon Management Plan carries the signature of our Managing Director – reflecting top level authorisation within Pellikaan Construction Ltd.

Signed: 

Date: 18 August 2021
Last reviewed: 15 November 2024

Name: Gert-Jan Peeters

Designation: Managing Director