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CASE STUDY

**LORNE STEWART CUTS
CARBON BY 10% – FIND OUT
HOW THEY’RE LEADING THE
NET ZERO TRANSITION**

ABOUT LORNE STEWART

Lorne Stewart Group is one of the UK's leading independent building services companies, delivering innovative and sustainable solutions throughout the construction and operational phases of building assets. As a customer-focused and value-driven organisation, Lorne Stewart integrates sustainability at the heart of its operations—recognising its importance not only for the environment but also for long-term customer value and business performance.

In its commitment to environmental responsibility, Lorne Stewart Group is conducting a strategic review to embed carbon reduction practices across the business—from supply chain through to customer engagement. The company has set a clear target to achieve Net Zero emissions by 2050 and is actively identifying high-impact areas to reduce its carbon footprint. To ensure its sustainability journey is transparent, measurable, and credible, Lorne Stewart has partnered with carbon consultancy Enistic. This partnership enables accurate tracking of carbon emissions in line with the Greenhouse Gas (GHG) Protocol.

Beyond internal initiatives, the Group is also dedicated to promoting sustainability across its supply chain. It recently achieved Gold Status with the Supply Chain Sustainability School—an industry-recognised accreditation. This membership supports the business in benchmarking progress and providing targeted sustainability learning for both employees and subcontractors.

Trading since

1978

Employees

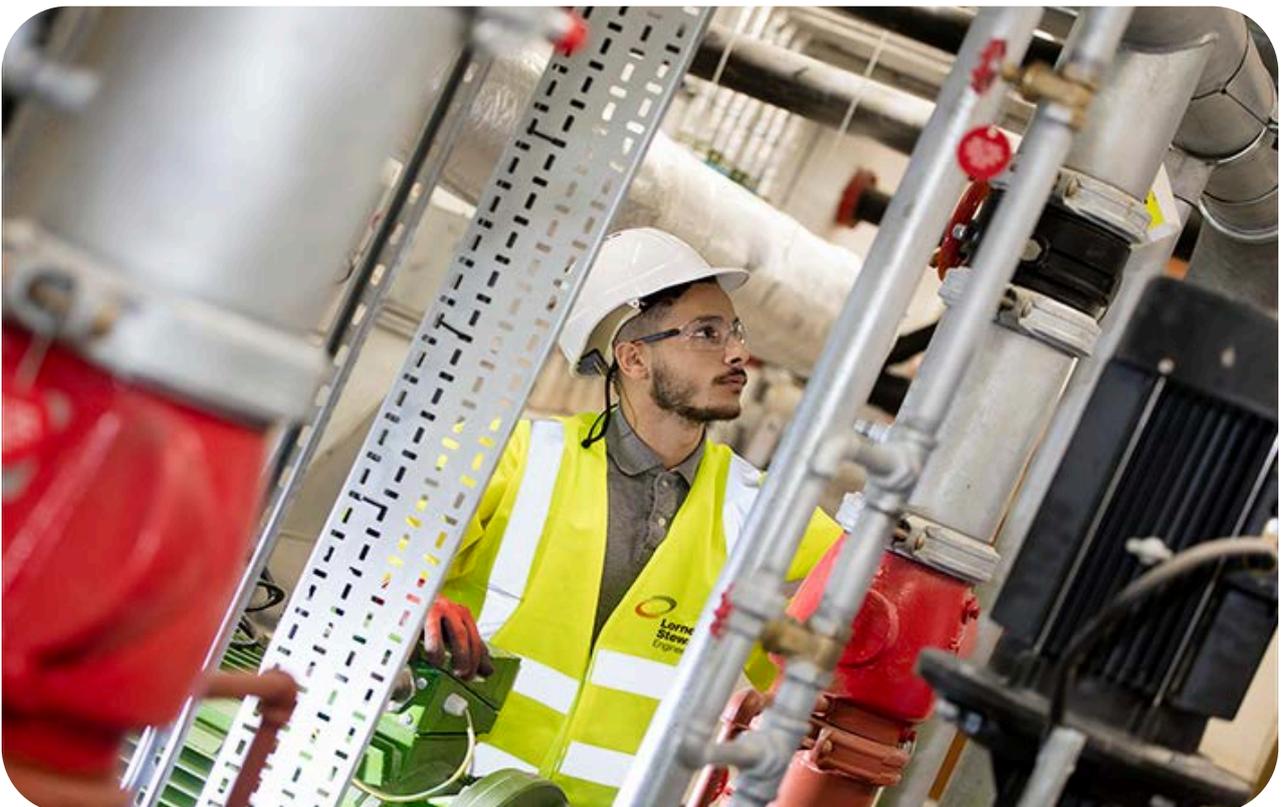
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Industry

Construction

Location

UK



SCOPE BREAKDOWN

Lorne Stewart Group has made significant progress in reducing overall carbon emissions, driven by the successful implementation of carbon reduction initiatives and enhanced monitoring capabilities. These efforts have enabled the company to identify key areas for improvement and act on them effectively. With this momentum, Lorne Stewart is well-positioned to achieve its Net Zero target by 2050.

Scope 1 emissions saw a notable 7% reduction, decreasing from 1,094.6 tCO₂e in the 2022 baseline period to 1,013.8 tCO₂e in 2023. This improvement is largely attributed to a 12% reduction in natural gas usage, following the installation of energy efficiency sensors on HVAC systems. Additionally, emissions from company vehicles dropped by 7%, reflecting the company's ongoing transition to an electric and hybrid fleet.

Scope 2 emissions, which relate to purchased electricity, remained unchanged at 95.2 tCO₂e. While emissions have remained static, the company is actively working towards converting all sites to renewable electricity sources. Once this transition is complete, a reduction in Scope 2 emissions is expected.

Scope 3 emissions experienced a significant 14% reduction, from 1,138.8 tCO₂e in 2022 to 974.9 tCO₂e in 2023. This improvement has been driven by several factors, including a 41% decrease in emissions from commuting and homeworking, and a 67% reduction in waste-related emissions. These changes are largely a result of the shift toward more flexible working practices and improved office resource management. Other contributing factors include an 8% decrease in upstream delivery emissions and reductions in well-to-tank and electricity transmission and distribution categories.

Emissions	Total (tCO ₂ e) for 2022 baseline period	Total (tCO ₂ e) for 2023 reporting period	% Difference
Scope 1	1,094.6	1,013.8	-7%
Scope 2	95.2	95.2	0%
Scope 3	1,138.8	974.9	-14%
Total Emissions	2,328.6	2,083.9	-10%
Intensity Ratio	47 kgCO₂e per sqft	42 kgCO₂e per sqft	-10%

COMPLETED CARBON REDUCTION PROJECTS



ISO50001 Energy Management System Accreditation

Lorne Stewart Group has achieved certification to ISO 50001, underscoring its commitment to continuous improvement in energy management. This accreditation ensures compliance with relevant legislative and regulatory standards, while enabling the business to lead by example in achieving energy efficiency across its sites.



Renewable Energy Suppliers

The majority of Lorne Stewart's sites are powered by green electricity suppliers. These green tariffs support the use of renewable energy sources, helping to significantly reduce greenhouse gas emissions and reliance on fossil fuels. This approach contributes to a cleaner environment and supports efforts to combat climate change.



Electric and Hybrid Fleet Options

In 2022, Lorne Stewart reviewed the viability of electric and hybrid vehicles for its fleet. With emissions from electric vehicles significantly lower than those of petrol or diesel, and with electricity generation becoming increasingly sustainable, the environmental impact of operating such vehicles is expected to decrease further over time.



Installation of Sensors on Heating, Ventilation & Air Conditioning (HVAC) and Lighting

The company has trialled the installation of sensors on high-energy-consuming HVAC and lighting systems in several offices. These sensors enable precise energy monitoring, helping to identify opportunities for improving energy efficiency.

FUTURE CARBON REDUCTION PROJECTS

Supply Chain

Lorne Stewart Group is actively collaborating with its supply chain to reduce carbon emissions from upstream deliveries. The company is encouraging suppliers to adopt electric vehicles and is working to consolidate deliveries into larger, less frequent shipments to minimise mileage and environmental impact.

Purchasing Products

The procurement team is assessing the embodied carbon of purchased goods with the goal of sourcing low-carbon alternatives. Where feasible, more environmentally friendly products will be introduced to reduce the overall carbon footprint of materials used.

Electric Vehicles

Lorne Stewart's vehicle fleet now includes electric and hybrid models. The company is committed to phasing out petrol and diesel vehicles over time, with a focus on expanding its use of cleaner vehicle technologies.

Renewable Energy Suppliers

While many sites already use renewable energy, the goal is for all Lorne Stewart locations to transition to green energy suppliers.

Low Carbon Office Equipment

Upgrade office equipment to more energy-efficient alternatives, such as replacing all lighting with LED solutions and improving the efficiency of systems such as air conditioning, ensuring minimal energy waste and eliminating gas leaks.

Installing Low Carbon Technology

Future upgrades will focus on integrating low-carbon technologies into office environments. More efficient laptops, monitors, printers, and other equipment will help lower office energy consumption to the greatest extent currently possible.

Installing Energy Management Sensors

The company also plans to install additional energy management sensors on office equipment. These sensors will help monitor energy usage and identify areas of inefficiency, enabling targeted actions to prevent unnecessary energy waste.

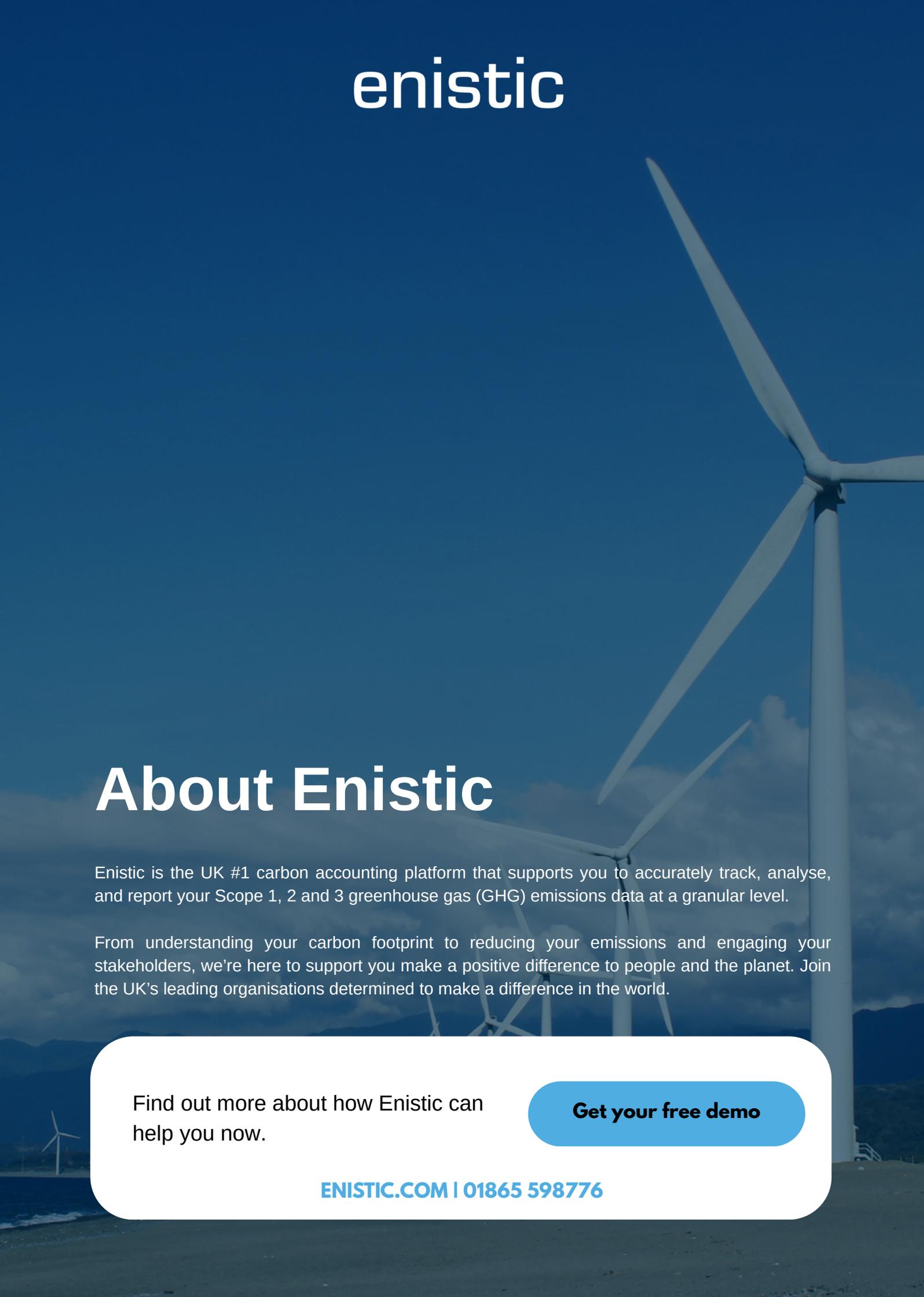
CLIENT PERSPECTIVE



Paul Briars, CEO Lorne Stewart Engineering

Lorne Stewart PLC is committed to achieving Net Zero by 2050. We have already started in making steps to reduce our carbon footprint and will continue to innovate and implement schemes across our offices, projects and contracts that will reduce the carbon we produce.

We believe collaboration with our customers and supply chain partners is key in us all working together to make sure that we make the necessary changes to achieve Net Zero.



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About Enistic

Enistic is the UK #1 carbon accounting platform that supports you to accurately track, analyse, and report your Scope 1, 2 and 3 greenhouse gas (GHG) emissions data at a granular level.

From understanding your carbon footprint to reducing your emissions and engaging your stakeholders, we're here to support you make a positive difference to people and the planet. Join the UK's leading organisations determined to make a difference in the world.

Find out more about how Enistic can help you now.

Get your free demo

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