

An aerial photograph of the Derby Road Carpark, showing a large paved area with parking spaces. Some spaces are marked with yellow diagonal lines and wheelchair icons, indicating disabled parking. The carpark is surrounded by residential buildings and a street with parked cars and a blue truck. The logos for 'sustainIQ' and 'GEDA' are overlaid on the image.

sustainIQ



Derby Road Carpark

Comparative Analytics to Reduce Emissions

BACKGROUND

GEDA is an award-winning, multifaceted Construction, Civil Engineering, and Development company based in Co Tyrone, Northern Ireland.

In 2025, GEDA successfully delivered the Derby Road Car Park, commencing on 21st October 2024 with a 16-week programme. The 1,525m² brownfield site, comprised of a new car park providing 39 general spaces, 6 disability spaces, and 4 car charging points.

For this project, GEDA's fleet vans; subcontractors machinery; and hybrid welfare units, all operated using a combination of solar energy and HVO (Hydrotreated Vegetable Oil) biofuel from RFAS suppliers, demonstrating their commitment to reducing carbon emissions.

Caoimhin Robinson, Environmental Manager at GEDA said "This project presented us with a unique opportunity to explore ways to reduce our emissions. We wanted to understand the potential benefits of applying solar energy and HVO fuels to conventional diesel-intensive activities".

HOW IS SUSTAINIQ BEING USED?

Following the project, a retrospective comparative analysis was conducted using SustainIQ. The comparative report allowed GEDA to compare actual emissions using HVO Fuels and Solar with equivalent emissions using Diesel instead. This included Scope 1 emissions from the Welfare Facility, and Scope 1 and Scope 3 emissions from their own plant and subcontracted plant.

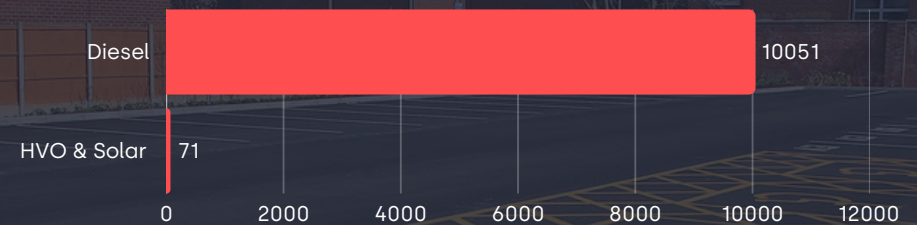
Using SustainIQ, GEDA found that using Solar and HVO Fuels resulted in a 99.3% reduction in emissions when compared to conventional diesel.

EMISSIONS

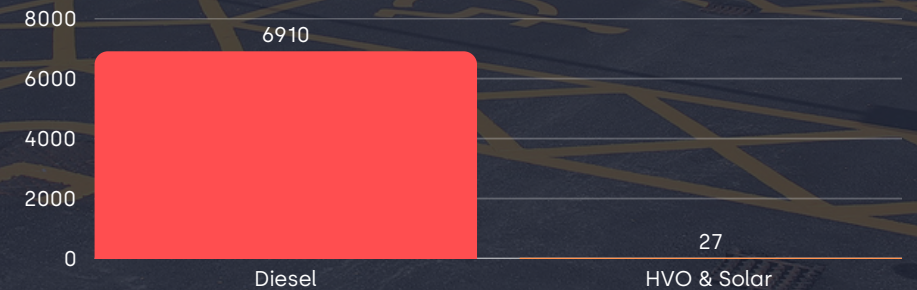
99.3% REDUCTION IN EMISSIONS

In Comparison to Diesel Usage

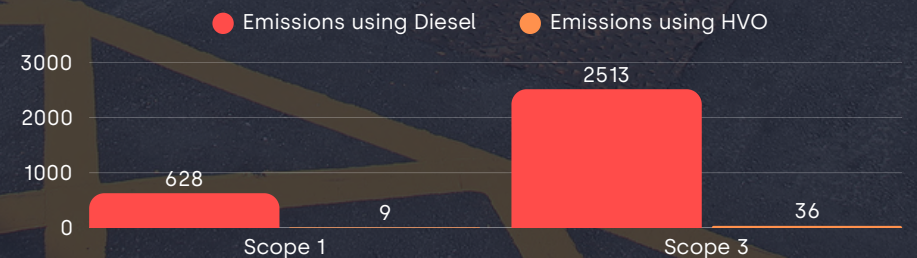
TOTAL EMISSIONS COMPARISON (KgCO₂e)



WELFARE FACILITY (SCOPE 1 KgCO₂e)



TRANSPORT EMISSIONS (KgCO₂e)



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The Derby Road Car Park project demonstrates how sustainability and collaboration go hand-in-hand to deliver successful infrastructure projects. By incorporating HVO biofuel across fleet, plant, and welfare facilities, we contributed to significant carbon savings. SustainIQ has helped us to understand those carbon savings in a clear and tangible way.

SustainIQ is helping to inform our carbon reduction strategy by providing us with comparative insights that help us to better understand where changes can be made, and the potential savings those changes might have.

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Caoimhin Robinson,
Environmental Manager
GEDA

OUR SOLUTION

Meet SustainIQ

COMPLETE ESG REPORTING

SustainIQ provides users with one integrated reporting dashboard for all aspects of ESG. Report on areas such as Waste Management, Scope 1, 2 & 3 GHG Emissions, Social Value, Biodiversity, Workplace Wellbeing, Diversity & so much more.

SustainIQ helps organisations centralise their ESG reporting in one place. With compliance requirements mounting and commercial value to be gained, our users experience improved data-flows and quality, but also win more work and enjoy significantly improved business growth as a result.



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