

ACHIEVING NET ZERO:

HOW BUSINESSES ARE ACCELERATING THEIR GOALS WITH HVO FUEL



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Executive Summary

As climate change reshapes the global economy, businesses face mounting pressure to reduce emissions and adopt sustainable practices. Achieving net-zero carbon emissions is no longer just a long-term goal—it's an urgent priority. However, transitioning to greener energy sources can be challenging, particularly for industries reliant on traditional diesel fuels.

Hydrotreated Vegetable Oil (HVO) fuel offers a simple, effective, and immediate solution. This renewable fuel is a direct replacement for fossil diesel, providing up to 90% lower carbon emissions while maintaining compatibility with existing engines and infrastructure.

This report explores how businesses across various industries are leveraging HVO Fuel to make measurable progress toward net zero, overcome operational challenges, and enhance their sustainability credentials.

The Road to Net Zero



What Does Net Zero Mean?

Net zero refers to balancing the greenhouse gases emitted into the atmosphere with those removed. This includes Scope 1 (direct emissions), Scope 2 (energy-related emissions), and Scope 3 (indirect emissions from supply chains).

Why Is Net Zero Important?

Governments, customers, and investors are demanding action. The UK government has set a legally binding target to achieve net zero by 2050, and businesses are central to this effort. The United Kingdom has a unique opportunity to lead the way, with regional strategies focused on reducing carbon emissions while driving economic growth.

Challenges Businesses Face in Achieving Net Zero



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The Role of Sustainable Fuels in Carbon Reduction



What Is HVO Fuel?

HVO Fuel is a premium renewable diesel made from waste oils, fats, and other sustainable raw materials. It's produced through a hydrogenation process, creating a cleaner-burning fuel that can replace fossil diesel without requiring modifications to existing engines.

Why HVO Fuel Is Effective for Net Zero:



Lower CO₂ Emissions

Up to 90% reduction in lifecycle emissions compared to fossil diesel.



Improved Air Quality

Significant reductions in particulates and NOx emissions.



Easy Transition

HVO Fuel is a drop-in replacement for diesel, requiring no additional infrastructure.

Industry Spotlights: How Businesses Are Making Progress

Authorities – North East Procurement Organisation (NEPO)



Challenges and Emissions

Heavy-duty transport and logistics fleets are among the largest diesel consumers and emitters. As part of NEPO's commitment to building a sustainable future for the communities they serve, NEPO were looking for a way to reduce their carbon emissions without compromising the procurement solutions that NEPO provide to the public sector.

How HVO Fuel Helps

Immediate emissions reductions without operational disruption.

The Solution

To aid the government's Net Zero by 2025 goal, Your NRG is now supplying HVO Fuel to NEPO from its northern depots. HVO Fuel is a paraffinic diesel fuel made from 100% renewable raw materials, providing a greener alternative to conventional diesel. When used in NEPO's diesel gas engines and machinery, emissions are reduced by up to 90%, paving the way for a cleaner and greener future in the North East. NEPO, with the support of Your NRG, has decided to trial the use of HVO Fuel as part of its journey towards building a sustainable future.

Analysis has shown that HVO Fuel emits 75 times less kg CO₂ equivalents per litre than conventional diesel, which was previously used to fuel street sweepers and refuse collection vehicles. Thanks to Your NRG and HVO Fuel, NEPO have successfully taken the step to reduce their environmental impact.

Testimonial



As part of our commitment to building a sustainable future for our communities, we are continuously looking for ways to reduce our carbon emissions whilst providing procurement solutions for the public sector. The trial with Your NRG and HVO Fuel gives us the chance to explore fuels of the future, while lowering our environmental impact, without disrupting the operations of our members' fleet. So far, the partnership has been a great success and we are looking forward to continuing our journey to Net Zero with the help of Your NRG.

Marie Foster

Energy Lead at NEPO

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Local Councils – Darlington Borough Council

Challenges and Emissions

In alignment with the UK government's 2050 Net Zero target, Darlington Borough Council sought to reduce the carbon emissions from their 26-tonne refuse vehicles as part of their commitment to a more sustainable future.

How HVO Fuel Helps

Reduces onsite emissions, aligning with government environmental standards.

The Solution

Partnering with Your NRG, Darlington Borough Council made a significant stride toward their sustainability goals by transitioning their 26-tonne refuse vehicles from traditional diesel to HVO (Hydrotreated Vegetable Oil) Fuel. Since adopting HVO Fuel, the council has achieved an immediate reduction in CO₂ emissions without sacrificing vehicle performance.

Testimonial

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At Darlington council, we recently switched to HVO Fuel to reduce carbon emissions from our 26-tonne refuse collection vehicles. Seeking a solution for lower emissions, HVO Fuel was the perfect choice. The transition was seamless, with HVO Fuel's drop-in capability, and we've seen an immediate reduction in emissions without affecting vehicle performance. Our vehicles run just as effectively as they did on conventional diesel, but without the harmful emissions. HVO Fuel delivers on its environmental benefits, and Your NRG has been a reliable partner, ensuring a smooth transition.

Brian Graham

Head of Environmental Services,
Darlington Borough Council



Local Councils – Rushcliffe Borough Council

Challenges and Emissions: Rushcliffe Borough Council is a local authority serving approximately 50,000 households with a total population of 120,000. As part of their carbon reduction plan, Rushcliffe Borough Council aimed to reduce tailpipe carbon emissions by 90% across their HGV fleet. Given the fleet's wide range of vehicles, from 6 months to 14 years old, the council needed a solution that would be compatible with all their vehicles.

How HVO Fuel Helps: HVO Fuel offers immediate environmental benefits without costly vehicle replacement.

The Solution

In partnership with Nottingham Council and Your NRG, Rushcliffe Borough Council transitioned from conventional diesel to HVO Fuel to power their refuse collection vehicles, 7.5-tonne trucks and LCVs. Since making the switch, the council has observed a significant reduction in tailpipe emissions, without compromising vehicle performance, successfully achieving their carbon reduction goal.

Testimonial

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At Rushcliffe Borough Council, we switched to HVO Fuel as part of our carbon reduction plan to decrease tailpipe emissions by 90%, the main area of focus being our HGV fleet. Since the switch, we've seen a significant reduction in tailpipe emissions across our refuse collection vehicles, 7.5-tonne trucks and LCVs. We're highly satisfied with the performance of HVO Fuel and the reliable service from Your NRG. We look forward to continuing our journey toward a more sustainable future with their partnership.

Rushcliffe Borough Council



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Financial and Operational Benefits of HVO Fuel

- Reduced Maintenance Costs:** HVO Fuel burns cleaner, reducing engine deposits and extending the lifespan of vehicles and equipment.
- No Capital Investment Required:** HVO Fuel works with existing engines and infrastructure, avoiding upfront costs.
- Potential Tax Incentives:** Many governments offer tax benefits for using renewable fuels.
- Long Shelf Life:** HVO Fuel's stability makes it ideal for businesses with fluctuating fuel demands.

A Step-by-Step Guide to Transitioning to HVO Fuel

- Assess Your Carbon Footprint:** Evaluate your current fuel use and emissions.
- Engage with Experts:** Partner with a trusted supplier like Your NRG to understand fuel specifications and logistics.
- Start with a Pilot Programme:** Transition one fleet or site to HVO Fuel to measure the results.
- Scale Up:** Roll out HVO Fuel across operations and track your progress toward net-zero targets.

The Bigger Picture: Co-Benefits of Sustainability

- Switching to HVO Fuel offers more than just carbon reductions:** Enhanced Brand Reputation: Customers and stakeholders value companies committed to sustainability.
- Regulatory Compliance:** Meet emissions standards without expensive retrofits or penalties.
- Improved Air Quality:** Benefit the communities where you operate by reducing harmful emissions.

Conclusion

Adopting HVO Fuel is a practical, immediate step toward achieving net-zero goals. It's cost-effective, operationally seamless, and environmentally transformative. Whether you're in logistics, construction, or manufacturing, HVO Fuel can help you take measurable steps toward sustainability while maintaining efficiency.

READY TO REDUCE YOUR EMISSIONS?

Call: 01642 686000

Email: HVO@yournrg.co.uk

Visit: yournrg.co.uk/hvo-fuel

