

HVO Fuel

REDUCING GREENHOUSE GAS EMISSIONS BY UP TO 90%





01/

02/

03/

04/

05/

01

Delivering a greener future...

HVO FUEL

INTRODUCTION.

MADE FROM 100% RENEWABLE RAW MATERIALS



yournrg.co.uk



WELCOME TO YOUR NRG.



I'm thrilled to introduce you to Your NRG and share how we can support your business with our innovative and sustainable liquid fuel energy solutions. At Your NRG, we understand that fuel management is about far more than reducing costs – it's about driving operational excellence, advancing sustainability, and preparing your business for a greener future.

Our mission is to create a lasting positive impact on the environment and the communities we serve. By focusing on renewable energy solutions like our Hydrotreated Vegetable Oil (HVO) fuel, we're helping businesses transition to cleaner alternatives that reduce carbon emissions without compromising on performance. Our HVO Fuel, in particular, represents a significant step forward for industries looking to balance operational demands with environmental responsibilities.

We take pride in exceeding expectations through continuous improvement, providing more than just fuel – we deliver sustainable solutions that power industry, agriculture, and commerce, while also warming our communities. Whether it's reducing your business's carbon footprint, enhancing energy efficiency, or meeting your ESG targets, we're here to support you every step of the way.

As Managing Director, my goal is to ensure Your NRG becomes your trusted partner in navigating the greener energy market. Our team is dedicated to creating fuelling solutions tailored to your business needs, helping you achieve your goals while making meaningful progress toward a net-zero future.

Inside this HVO Fuel Welcome Pack, you'll find an overview of the benefits of making the switch with Your NRG; case studies that highlight our successes, and insights into how your business can achieve its sustainability and CSR objectives. With Your NRG, you'll have consistent access to HVO Fuel – designed to drive positive change, support growth, and align with your long-term vision.

Thank you for considering Your NRG as your partner in sustainable energy management. We're excited to work with you and help your business take those all important first and next steps in making the switch.

Warm regards,

A stylized, handwritten signature in green ink, consisting of a large 'J' and 'R' followed by a period.

Jeremy Royle
Managing Director, Your NRG



Whether it's reducing your business's carbon footprint, enhancing energy efficiency, or meeting your ESG targets, we're here to support you every step of the way.

The race to reach the UK's net zero target is well underway and at Your NRG we're committed to contributing to this mission by offering a variety of cleaner and sustainable future fuels. As a significant step forward, we are proud to supply Hydrotreated Vegetable Oil (HVO Fuel), a promising alternative fuel that paves the way for a greener and more sustainable future.

What is HVO Fuel?

HVO Fuel – or hydrotreated vegetable oil – is a cleaner burning, drop-in diesel alternative, made from 100% renewable raw materials including vegetable oils and/or animal fats.

The FAME-free, fossil-free and sulphur-free fuel, when used, provides businesses with instant reductions in CO₂ emissions. This makes HVO Fuel a convenient choice for those sectors looking to transition to a greener future.

Why choose HVO Fuel?

If your business is looking to smoothly transition from conventional diesel to a greener alternative for both on and off-road vehicles, HVO Fuel is a smart choice.

HVO Fuel can power existing diesel engines without any modifications, saving you from costly and time-consuming engine or infrastructure changes. HVO Fuel boasts up to a 90% reduction in overall greenhouse gas emissions, helping you to achieve your all important sustainability goals, without disrupting your operations.

02

HVO FUEL BENEFITS.

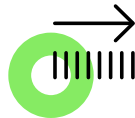


BENEFITS OF HVO FUEL



BIODEGRADABLE

Due to HVO Fuel being derived from renewable feedstocks, HVO Fuel is classified as a biodegradable fuel. If spilled, HVO Fuel poses a lower risk of long term contamination compared to conventional diesel.



STABLE IN STORAGE

HVO Fuel typically has a longer shelf life of up to 10 years when stored correctly, in comparison to conventional diesel which is recommended to be turned over every 90 days.



DIRECT-DROP-IN REPLACEMENT

HVO Fuel can be used in existing diesel engines without the need for modifications. HVO Fuel is a convenient and practical alternative for businesses looking to transition to a more sustainable fuel.



EXCELLENT COLD WEATHER PERFORMANCE

Thanks to its low cold filter plugging point, HVO Fuel has improved cold weather properties in comparison to conventional diesel. HVO Fuel can be considered a smart choice of fuel, all year long.



UP TO 90% REDUCTION IN GREENHOUSE GAS EMISSIONS

HVO Fuel emits fewer harmful pollutants, such as particulate matter (PM), nitrogen oxides (NOx), and sulphur oxides (SOx) in comparison to conventional diesel. Overall, HVO Fuel boasts up to a 90% reduction in greenhouse gas emissions, offering a direct and reliable route to helping businesses reduce both their localised emissions and overall carbon footprint.



ENDORSED BY A RANGE OF OEMS

HVO Fuel is OEM approved by several global companies and passenger car manufacturers. HVO Fuel meets EN15940 standards and can be used in heavy-duty road vehicles such as articulated lorries, as well as many off-road vehicles such as tractors, construction vehicles and more.



03

CASE STUDIES.



CASE STUDY 01/03

NORTH EAST LOCAL AUTHORITIES TRIAL 'FUTURE FUEL' HVO FUEL



Company Overview

Established in 1967, North East Procurement Organisation (NEPO) works in partnership with North East authorities and the wider public sector to strategically procure high value goods and services. NEPO's procurement solutions feature a wide range of suppliers of varying sizes. Your NRG have held a contractual agreement to cater for NEPO's bulk fuel requirements since 2016.

The Challenge

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.

The Solution

To aid the government's net zero by 2050 goal, Your NRG is now supplying HVO Fuel from its northern depots.

HVO Fuel is a paraffinic diesel fuel made from 100% renewable raw materials, providing a greener alternative to conventional diesel. **It can reduce greenhouse gas emissions by up to 90%** when used in diesel engines and machinery, **paving the way for a cleaner and greener future.**

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. Northumberland County Council and Redcar & Cleveland Borough Council are already using HVO Fuel, supplied by Your NRG, to power a number of street sweepers and refuse collection vehicles.

Analysis by Northumberland County Council 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 environment impact.

At a Glance

OBJECTIVES

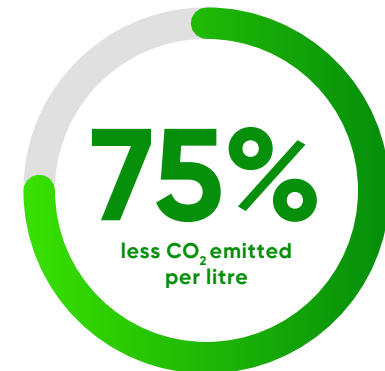
- Building a more sustainable future without compromising procurement services to the public sector.

PREVIOUS CHALLENGE

- Harmful CO₂ emissions emitted by standard diesel.

KEY INFO

- Northumberland County Council and Redcar & Cleveland Borough Council are using HVO Fuel to power a number of vehicles.
- Northumberland County Council confirmed that using one litre of HVO Fuel emits 75% less CO₂ equivalents compared to one litre of diesel.



CASE STUDY 01/03



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, our 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 Forster
NEPO, Energy Lead



HVO Fuel is a big step in the future fuels market for Your NRG. As a leading distributor of liquid fuels in the North East, we are very pleased to be leading the way in adding HVO Fuel to our portfolio of products and also working closely with local authorities and blue-chip companies. The interest and enquiries are growing by the day.



Lee Reason
Your NRG, Commercial Director

Cleaner, Sustainable Fuel

HVO Fuel has a lower carbon footprint and a higher energy density, in comparison to conventional diesel. HVO Fuel emits significantly less harmful greenhouse gas emissions. By making the switch to HVO Fuel, greenhouse gas emissions can be reduced by up to 90%.

Direct Drop-In Replacement

HVO Fuel is a drop in and go fuel, approved by a wide variety of OEMs as direct replacement for use in diesel engines without modifications. HVO Fuel is an ideal and cost effective future fuel.

Outstanding Performance

HVO Fuel has a longer shelf life and better cold weather performance than conventional diesel due to being FAME-free. It has a naturally low cold filter plugging point (up to -30 degrees) boasting excellent cold weather performance. Furthermore, HVO Fuel has improved combustion compared to some diesel alternatives, igniting quickly and efficiently.

**DELIVERING
A GREENER
FUTURE**

CASE STUDY 02/03

DARLINGTON COUNCIL



Company Overview

Darlington Borough Council is a local authority based in the North East of England.

The Challenge

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

The Solution

Partnering with Your NRG, Darlington Borough Council made a significant stride toward their sustainability goals by transitioning their 26-ton 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



At Darlington council, we recently switched to HVO Fuel to reduce carbon emissions from our 26t 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



CASE STUDY 03/03

RUSHCLIFFE BOROUGH COUNCIL



Company Overview

Rushcliffe Borough Council is a local authority serving approximately 50,000 households with a total population of 120,000.

The Challenge

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.

90%

reduction in tailpipe carbon emissions

The Solution

In partnership with Nottingham Council and Your NRG, Rushcliffe Borough Council transitioned from conventional diesel to HVO Fuel (Hydrotreated Vegetable Oil) Fuel to power their refuse collection vehicles, 7.5-ton 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



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, 7.5t trucks, and LCVs. We're highly satisfied with the performance of HVO Fuel and the reliable service from NRG. We look forward to continuing our journey towards a more sustainable future with their partnership.

Rushcliffe Borough Council





04

HVO FUEL FAQs.

HVO FUEL FAQs

What is HVO Fuel?

HVO Fuel (Hydrotreated Vegetable Oil) is a renewable, paraffinic diesel. It is made from 100% renewable feedstocks such as vegetable oils and/ or waste animal fats. During the production of HVO Fuel, the renewable feedstocks undergo hydrogenation, converting them into a low-carbon fuel. Due to this process, HVO Fuel is a high-quality, cleaner-burning alternative to white diesel that can be used as a direct-drop-in replacement in most diesel engines.

How is HVO Fuel produced?

HVO Fuel is produced through a hydrotreatment process of renewable materials at high pressures and temperatures. This process removes impurities and elements that cause fuel degradation, resulting in a high-quality paraffinic fuel.

What are the main environmental benefits of HVO Fuel?

HVO Fuel is a fantastic fuel that empowers businesses to reach their sustainability goals due to its reduced net CO₂ emissions. HVO Fuel can reduce CO₂ emissions by up to 90% in comparison to conventional diesel, while also reducing particulate matter, and nitrogen oxide emissions by up to 30%. Not only this but HVO Fuel is also biodegradable and FAME-free.

Can HVO Fuel be used in existing diesel engines and equipment?

Yes, HVO Fuel is an excellent direct drop-in alternative to diesel for most engines, requiring no modifications or adjustments. It is approved by OEM and meets EN15940 standards. HVO Fuel is suitable for use in heavy-duty road vehicles, including articulated lorries, as well as a variety of both on-road and off-road vehicles, such as tractors and construction equipment.

How does HVO Fuel compare to biodiesel?

Unlike biodiesel, HVO Fuel is FAME-free, enabling it to resist water contamination. Due to this, HVO Fuel doesn't form a sludge that can block filters, damage equipment, or cause unexpected downtime. HVO Fuel also has a longer shelf life and an enhanced better cold weather performance than biodiesel.

What is the storage life of HVO Fuel?

Under proper conditions, HVO Fuel can be stored for up to 10 years, unlike conventional diesel which is recommended to be turned over every 90 days.

Is HVO Fuel more efficient than diesel?

HVO Fuel has a higher cetane number than diesel fuel (70+ vs diesel's 51), which can positively impact engine performance and lead to cleaner combustion.

Are more businesses looking to transition to HVO Fuel?

Yes, as companies work towards meeting their sustainability goals and net zero, we're seeing more businesses transition to using HVO Fuel in their operations.

What role does HVO Fuel play in the broader energy transition?

HVO Fuel is a transitional fuel that is aiding businesses around the UK in reducing their emissions while longer-term solutions are being developed.

Who can use HVO Fuel?

HVO Fuel is an excellent choice for both on-road and off-road vehicles, as well as various types of machinery and equipment. Its versatility makes it suitable for a wide range of industries such as construction, the public sector, and more.



05

GET IN TOUCH.



READY TO MAKE THE SWITCH?



Call:
01642 686000

Email:
hvo@yournrg.co.uk

Request a quote:
yournrg.co.uk

