



FORD FUELS
GOING GREENER
RENEWABLE FUELS



“MAKE A DIFFERENCE
WITH OUR
RENEWABLE
FUEL”

GOING GREENER!

Say hello to the fuel of the future! Hydrotreated Vegetable Oil, or **HVO** for short, is a 100% renewable fuel that is a drop-in replacement for traditional Diesel and Gas Oil.

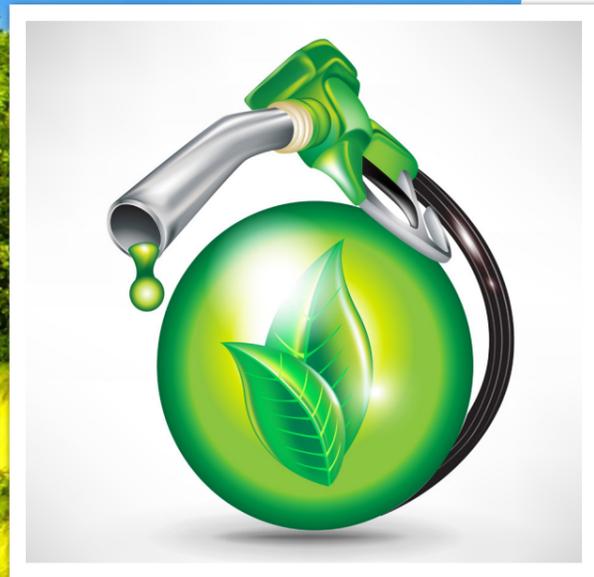
Renewable fuels are an important part of the UK's drive to net zero emissions. Ford Fuels are proud to give their help and expertise in providing alternative fuels that can reduce emissions by up to 90%.

WHAT IS HVO FUEL?

Hydrotreated Vegetable Oil is a **RENEWABLE** alternative to diesel. It is made from renewable and sustainable raw materials, which do not include any virgin crops. HVO is produced by hydrotreating vegetable oils/animal fats, which results in a premium fuel that operates identically to that of a regular diesel.

HVO is now included in the Worldwide Fuel Charter, and is accepted by most OEMs. Check your machinery's handbook for compatibility.

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THE BENEFITS OF HVO

-  **SUSTAINABLE & RENEWABLE**
HVO is a sustainable, 100% renewable fuel. It meets the requirements of EN 15940 for paraffinic diesel fuels. 
-  **LOW EMISSIONS**
Emissions and pollutants are cut by up to 90%, saving on greenhouse gas and particulates. 
-  **DROP-IN- COMPATIBILITY**
HVO is a drop-in replacement for traditional diesel and gas oil, and can even be mixed with the fuel currently in your storage tank. 
-  **REDUCED MAINTENANCE**
Reduces the risk of fuel filter problems when compared to biodiesel (FAME) blends. 
-  **CLEAN**
HVO is cleaner burning fuel that also offers a higher cetane number (up to 90) than regular diesel. 
-  **LONGER LIFE SPAN**
Store for up to 10 years, with less regular checks needed. 
-  **COLD FLOW**
HVO has improved cold flow properties, reducing the risk of waxing in cold temperatures. 
-  **TOXIC FREE & ODOURLESS**
HVO is biodegradable, non-toxic and odourless. 

HVO - FAQ:

1. What is HVO - Hydro-Treated Vegetable Oil?

HVO is a sustainable and 100% renewable fuel. It is created from using waste materials such as used cooking oils, tallow and other waste oils. The HVO supplied by Ford Fuels does not contain any virgin crops (e.g. palm oil), and meets the requirements of EN 15940 for paraffinic diesel fuels.

2. Where can HVO be used?

Commercial Boilers | Agricultural Tractors | Agricultural Machinery | Generators
Construction Equipment | Industrial Trucks | Tankers | Boats | Locomotives

3. What is the difference between HVO, traditional mineral fuels, and biodiesel blends?

HVO is produced in a complex refinery process that removes oxygen from the vegetable oil molecules, and splits them into a different chain. HVO is a more stable fuel with a longer shelf life. It also provides superior performance in application and storage over fossil diesel and FAME substitutes.

4. With HVO will I need to change my fuel storage tank?

No. It is interchangeable with traditional diesel, and is a perfect drop-in replacement. You will need no modifications or additional infrastructure. HVO is approved by major OEMs:



5. Is HVO more expensive than normal diesel?

It is relatively expensive in comparison to regular diesel however, HVO is more fuel efficient, so it can be argued that you get better value for money than regular diesel. HVO also comes at a fixed cost, rather than fluctuating like regular diesel.

6. Will HVO affect fuel efficiency?

Fuel consumption is nearly proportional to the volumetric heating value, but in some cases the engine efficiency is slightly improved.

HVO - FAQ:

7. How will HVO affect my engine?

PERFORMANCE IN ENGINES

- Reduces your CO₂ emissions by up to 90%.
- No modifications to vehicles required.
- Same torque and maximum power as with fossil fuel in modern engines.
- No cold operability issues during (severe) winter weather.
- Low tendency to form deposits in fuel injection system and fuel injectors.
- No engine oil dilution issues or chemical incompatibilities with engine oil.
- Possibility to design more fuel-efficient low-emission diesel engines (“diesel-FFV-vehicles”).
- Supported in Worldwide Fuel Charter published by automotive and engine manufacturers.
- Long lasting (10 year shelf life), which minimises filtration problems.

ENGINE POWER & TORQUE

- Similar maximum power and acceleration time as with fossil diesel in modern vehicles.

ENGINE OIL DILUTION & DETERIORATION

- Better engine oil condition due to reasonable distillation range and hydrocarbon type chemistry.
- Higher cetane number decreases oil dilution in cold starts and low load conditions.

8. What are the technical specifications of HVO?

	Biodiesel (Fame/RME)	Red Diesel 10 ppm Sulphur	Renewable Diesel (HVO)	Fischer-Tropsch (GTL)
Raw Material	Vegetable Oils & Animal Fats (mainly rapeseed oil)	Crude Oil (mineral oil)	Flexible Mix of Raw Materials (vegetable oils & waste fats)	Gas
Technology	Esterification	Traditional Refining	Hydrotreating & Isomerisation	Fischer-Tropsch & Isomerisation
End Product	Ester-Based, Conventional Biodiesel	Hydrocarbon (gasoline, jet fuel diesel)	Bio-Based Hydrocarbon (renewable diesel, jet fuel, bionaphta, biopropane)	Hydrocarbon (renewable gasoline, jet fuel, diesel)
Chemical Composition	C, H O Elements Unsaturated Fatty Acid Backbone	C, H some N, S O. Paraffins & Aromatics	C, H Elements Only; Linear & Branched Paraffins	C, H Elements Only; Linear & Branched Paraffins

9. How do I switch to HVO?

Just give us a call, its that easy!
As HVO is a ‘drop-in’ replacement, we can have you up and running in no time. (Terms and Conditions apply). Contact us for more details, or if you have any further questions.

“GLOBAL WARMING IS EVERYBODY’S BUSINESS”

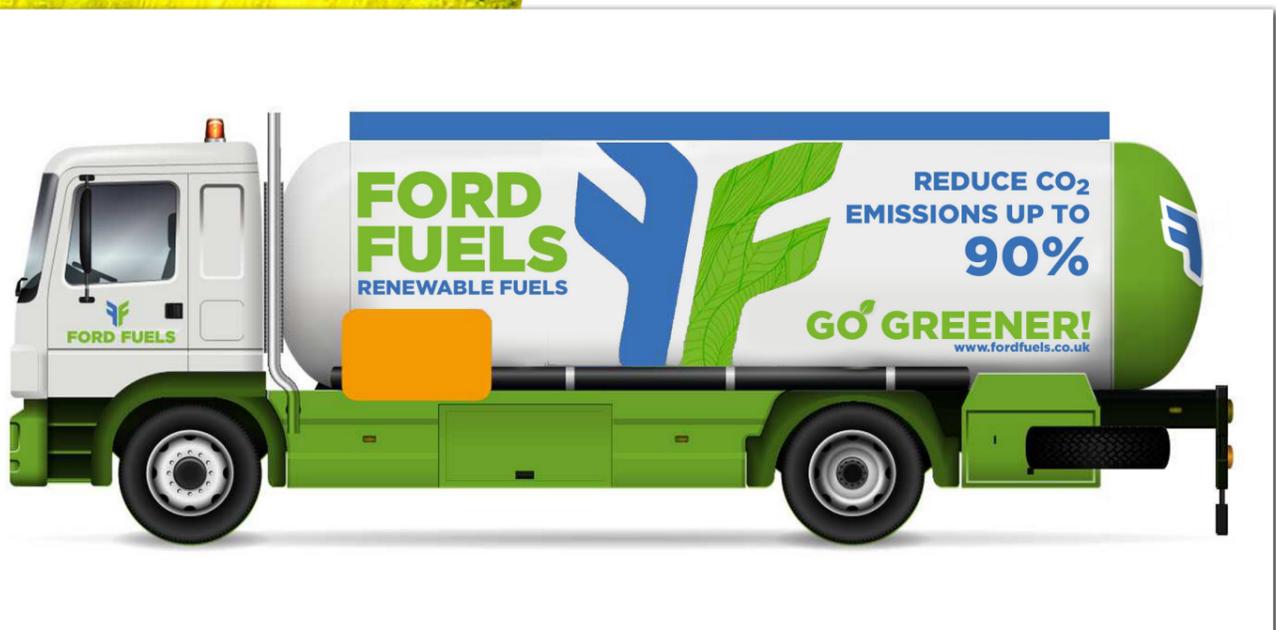
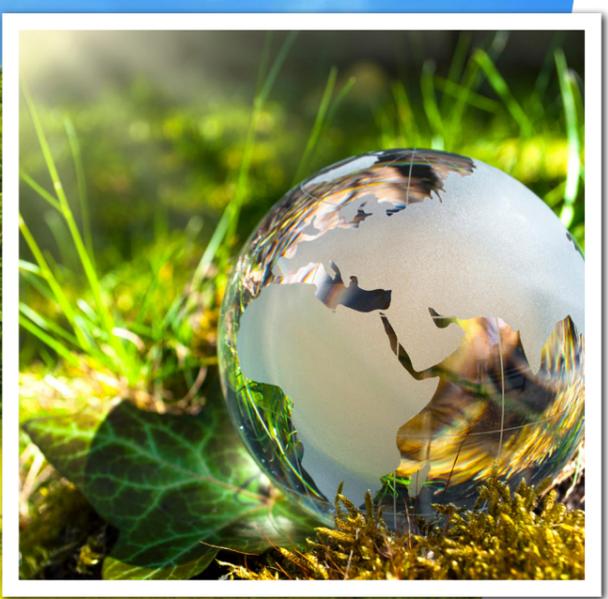
CARBON FOOTPRINT

A carbon footprint is the total greenhouse gas emissions caused by an individual or company, expressed as it’s carbon dioxide equivalent. Greenhouse gases, including the carbon-containing gases carbon dioxide and methane, can be emitted through the burning of fossil fuels.

Reducing those emissions is the key solution to tackling climate change!

You can reduce your emissions even more by using our Carbon Offsetting scheme.

“HVO REDUCES EMISSIONS UP TO 90%”



CARBON OFFSETTING

Carbon offsetting helps compensate for your emissions by funding an equivalent CO₂ saving elsewhere. Unlike other carbon reductive solutions, offsetting is a simple, cost-effective approach that can be done without making changes to your vehicles or fuel supply.

We work closely with ‘Portland’s Carbon Compensation Scheme’, which enables our clients to de-carbonise by funding carbon offsetting projects, designed to reduce and prevent CO₂ emissions through various sustainable solutions. In addition to emissions benefits, such projects also help to generate employment, develop infrastructure and provide other social benefits to communities in need.



HOW IT WORKS?

Once we contact them on your behalf, Portland’s Carbon Compensation Scheme will conduct an initial analysis of your carbon emissions based on fuel usage across a set period, calculating both direct (emitted upon combustion i.e. tailpipe) and indirect (emitted during the fuel production/transport process) emissions using their comprehensive, certified carbon methodology. They will then allocate a selected carbon reduction project, tailored to your specific requirements and issue you with a monthly carbon reduction report and annual certification.

Visit www.portlandgreen.co.uk/offsetting to calculate your carbon emissions.

Contact us for more information:

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ABOUT Us...

Ford Fuels started life as G H Ford & Sons which began with George Ford borrowing £25 before the Second World War. George invested in a horse and cart, delivering milk & coal to homes in the local area south of Bath.

By the end of the 1960's, sons Jack and Alan were bringing coal to the west from Wales and the Midlands in 12 bulk tipper trucks. They were also starting to see an opportunity for Ford in oil.

The next generation, Adrian, Michael and Richard Ford moved the company along to be the large-scale heating oil, servicing and lubricant distribution company we are today.

Growing year by year since the early days in the 70's, we now operate over 75 delivery vehicles from our 9 depots across the South West of England. Supplying a full range of fuels and lubricants, together with successful heating engineering and fuelcards divisions, we are now a one-stop shop for all your fuelling and lubrication requirements.

With the fourth generation of the family, John, Ryan, Teelah and David, coming into the business in recent years we are still following the same family-driven traditions of the past. By adding our Gloucester depot in January 2017 we continue to expand in the South West, bringing together the competitive prices of a major oil company with the excellent customer service levels of a local family firm to offer something unique in the industry.

George Ford might well be amazed by much of what we are doing today – but he would certainly recognise the vision and industry we face into the future.

We are now looking to that future, and how we help forge the way to becoming a greener and more sustainable industry.



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FORD FUELS

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SOCIAL MEDIA



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