



Lowering carbon emissions

**Reduce your
carbon emissions
by up to 90%**



**HVO fuel offers a
fast and simple step
towards reducing
your greenhouse
gas CO₂ emissions
by up to 90%**

Introducing HVO

What is HVO?

Hydrotreated Vegetable Oil (HVO), or renewable diesel as it is often referred to, is an advanced renewable diesel that reduces carbon emissions.

HVO is processed into an advanced biofuel that can be used as a drop-in alternative to diesel, and does not require engine modifications.

Part of the paraffinic diesel fuel family, HVO meets the EN15940 and is suitable for use in transport, electricity generation and industrial applications.

Make sure your CO₂e reductions count!

Under the Renewable Transport Fuel Obligation (RTFO), every litre of HVO supplied by Inver is certified to ensure that the CO₂e reductions count against Ireland's national targets.

HVO is available for delivery from our jointly owned terminal in Foynes to any location nationwide

Inver advises that customers consult their Original Engine Manufacturer (OEM) supplier prior to using fuels that meet the above standards.





The benefits of HVO

» HVO reduces carbon emissions by up to 90% and can be used to fuel numerous on-road and off-road diesel engines, including:

- **Fleet vehicles**
- **Heavy-duty trucks**
- **Transit and city buses**
- **Agriculture and construction equipment**

- » Excellent cold-weather performance: higher cetane number (up to 90) and lower cold filter plugging point (CFPP) provides better starting performance than road diesel, clean combustion and less chance of waxing in extreme temperatures
- » A wide range of OEM approvals means it can be used without needing engine and machinery modifications
- » Reduced need for regular testing: impurities are removed during the production process, eliminating the key factors for fuel degradation and increasing shelf life to around 10 years

Simple steps to start using HVO

- » Confirm with your vehicle OEM or main dealer that your vehicle is suitable for HVO
- » Contact Inver Energy at salesireland@greenergy.com to obtain pricing
- » In consultation with Inver, source a repurposed or new tank for HVO in your facility
- » Place your order, either by email or phone and agree delivery
- » Refuel your vehicle and reduce your carbon emissions by up to 90%

1,000 litres of diesel will produce approximately 3.42 tonnes of CO₂, compared to just 0.54 tonnes using HVO

(Calculated using FQD values -EU legislation on GHG reduction and fuel quality)

As a highly versatile renewable fuel, HVO can be used readily in the following applications:

Transport - Either blended in high proportions with diesel to meet the traditional EN590 specifications or used 100% as a renewable replacement, HVO can be easily transported, stored, and dispensed like mineral diesel. Most diesel vehicles can use HVO without engine modification, as its chemical properties are almost identical to diesel.

Electricity generation - HVO can be used as a fully renewable replacement for gasoil in either mobile or backup electricity generation. It can be promptly supplied and easily stored for use when required at short notice. HVO meets the ASATM D975 fuel standards.

Industrial use - HVO can be used as a replacement for gasoil or fuel oils used in industrial applications either as a primary or back up fuel. As with the other applications, it can be easily supplied, transported and stored for use with little investment required on site.





FAQs

What is HVO?

Hydrotreated vegetable oil (HVO), also known as renewable diesel, is made from 100% certified waste derived and sustainable raw materials. It is converted into a high-quality biofuel that is approved by a wide range of Original Engine Manufacturer (OEM), allowing HVO to replace mineral diesel without engine or machinery modifications.

What are the benefits of HVO?

- » **CO₂ emissions reduction:** HVO can reduce your carbon emission by up to 90% and help your business to reduce their carbon footprint significantly
- » **Versatility:** HVO is ideal for a wide range of applications such as vehicles, generators, and industrial power systems, with no capital investment
- » **Reliability:** HVO is chemically similar to diesel, so it has comparable cold weather performance without compromising its sustainable benefits
- » **Maintenance:** Improved safety, storage (up to 10 years) and reduced need for regular testing

Who can use HVO?

Most suppliers of diesel-powered heavy vehicles and off road machinery approve the use of HVO without needing any engine modification and without impact on manufactures warranty.

How much does HVO costs?

As a premium renewable product, HVO is more expensive than mineral diesel, but it is competitively priced in comparison to other renewable low-carbon fuels.

Transitioning to HVO is an easy way to reduce your carbon footprint by up to 90% and to help meet your decarbonisation targets.

Who certifies HVO ?

Our waste based HVO is sourced from supply chains which are certified under an approved EU voluntary scheme. Our supply chains are auditable and claims are validated through the supply of a Proof of Sustainability certificate under International Sustainability & Carbon Certification (ISCC) scheme. All fuels supplied by Inver meet National and European fuel standards and have complete traceability from the point of manufacture to our customers.

How do CO₂e reductions help Ireland reach its climate change targets?

As a member of the Renewable Transport Fuel Obligation Scheme (RTFO), every litre of HVO supplied by Inver to the Irish market is registered with RTFO to ensure that the CO₂e reduction counts against Ireland's national targets.

How safe is HVO?

HVO is a paraffinic diesel as safe as mineral diesel with a low ignition risk. The fuel is not to be stored at pressure. There is no additional training and PPE needed to store and use HVO.

What is the availability of HVO?

HVO is now available from our state-of-the-art terminal in Foynes and selected forecourts. If you are looking for a trusted and reliable HVO bulk supplier, contact our team on salesireland@greenergy.com or call us at **+353 (0) 21 439 6950**.

All Inver fuels are laboratory tested and independently assured, supplied directly to your facility.



Lab Certified

Tested by a certified laboratory at the refinery of origin prior to loading the oil tanker.



Independently Surveyed

Checked by independent surveyors for quality assurance at the loading refinery and at Inver's import terminals.



Certified Quality

Provided with Certificates of Quality for each individual cargo showing that the fuels meet EU and Irish specifications.



Tested

Tested for quality assurance prior to receipt from the oil tanker at Inver's import terminals and samples from each individual cargo are retained.



Independent Quality Assured Testing

Tested by independent surveyors and laboratories to insure quality assurance.



Inver - Controlled Delivery

Inver fuels are supplied directly from our jointly owned terminal in Foynes, Limerick.



Quality Fuel Programme

Our Quality Assured Fuels programme gives our customers the assurance that fuels supplied by Inver meet national and European fuel standards and have complete traceability from the point of manufacture to our customers.



Inver - Our Story

Supplying fuels in Ireland since 1984

Inver has been supplying fuels in Ireland for nearly 40 years. Inver derives its name from the Gaelic word for "estuary" or "mouth of the river".

Our name reflects our roots, the inception of our business on the Shannon estuary and the location of our jointly owned state-of-the art terminal in Foynes.

Our story began in 1984 with the purchase of a small fuel distribution company in Foynes, Co. Limerick on the Shannon Estuary. Today we are a leading importer of fuel products supplying a wide range of customers from local forecourts to large industrial businesses.

In 2012, the Inver Retail brand was established and has become a national network continuously expanding with forecourts around Ireland.

We have grown from a local supplier of fuel oil to a national supplier of a full range of fuel products selling over 700 million litres annually.

In 2017, Inver Energy was acquired by Greenergy, Europe's largest manufacturer of waste-based biodiesel and a leading supplier of road fuels in the UK.

Inver's innovation and expertise in the fuels business allows us to develop new products and services that can meet future demands.

We are continuously adapting our fuel offering to help businesses meet their decarbonisation targets in Ireland. Inver is dedicated to making Ireland's future cleaner and reducing greenhouse gas emissions with biofuel products like B20 and HVO for commercial vehicles.

We take great pride in delivering the best fuel and energy solutions to our customers.

HVO available now, reduce your carbon emissions by up to 90%





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If you're looking for a bulk supplier that can help reduce your carbon emissions, and ease your fuel transtion get in touch with our friendly team today!

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Visit:

www.inverenergy.ie
Facebook and Instagram:
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Inver

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