GreenD+ HVO vs Red Diesel

Comparison Study

At John F Hunt Power, we are continually exploring new technologies to ensure we offer our clients the most efficient solutions to their temporary power requirements. With the government's recent commitment to reducing carbon emissions by 80% before 2050, the need for more sustainable fuels has never been greater.

After months of testing and multiple on-site trials throughout different industries, we are now able to offer GreenD+ HVO across our range of services, as an alternative to red diesel.

What is GreenD+ HVO?

Made from 100% renewable materials, our GreenD+ HVO can reduce greenhouse emissions by up to 90% and our clients are already experiencing its many benefits.

GreenD+ HVO is an enhancement of standard HVO (Hydrogenated Vegetable Oil) achieved by the inclusion of an additive system which chemically reduces NOx in exhaust gases.

Our alternative fuel is cleaner and more sustainable than diesel and will dramatically improve air quality in areas where temporary power generation is required.

GreenD+ HVO vs Red Diesel Study

To provide our clients with some evidential proof of GreenD+ HVO benefits, our team of engineers recently carried out a comparison study in our Midlands Depot.

We used the same 300 kVA Generators for both parts of the trial and monitored live fuel consumption, emissions and engine performance when running on the different fuels.

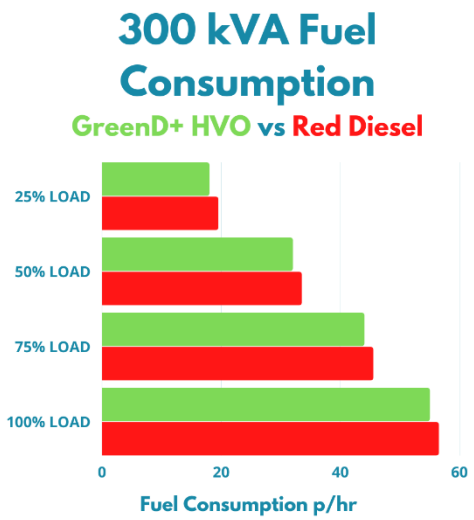
To guarantee validity of the results, the same equipment was used to produce artificial load on the generator and our team ensured the same atmospheric conditions were in place throughout all testing.

What were the results?

Our engineers recorded significant improvements in fuel consumption when using GreenD+ HVO - up to a litre per hour in some cases.

Whilst this may seem like a relatively small reduction, this could result in saving hundreds of litres of fuel, over the course of a long-term project.

In addition to enhanced fuel consumption, there were also substantial reductions in emissions output, as detailed below.



- Hydrocarbons, CH4 and CxHy, show reductions of more than 50% across the output range from 10% to 100% load.
- NOx is reduced by up to 40% at various load increments.
- Significant reduction in Particulate Number. Figures reduced by over 50% across the power range.

By switching to our alternative fuel solution, our clients have the opportunity to reduce their carbon footprint, whilst ensuring the same reliable power supply.

With the added benefit of enhanced fuel consumption, our GreenD+ HVO can add even more value as your fuel of choice.

Contact one of our depots today to discuss using GreenD+ HVO for your next project.

South East Depot
Europa Park,
London Road,
Grays, Essex,
RM20 4DB
T: 01375 366766

Midlands Depot
Fairfield Park,
Off Fairfield Road,
Halesowen,
West Midlands
B62 9JL
T: 0121 559 1818

South West Depot
Bradley Road,
Bristol
BS20 7NZ
T: 0117 901 2199

Scotland Depot
Nasmyth Square
Livingston
West Lothian
EH54 5GG
T: 01506 353 399

North East Depot
Portobello Trading Estate
Shadon Way
Chester-Le-Street
DH3 2RN
T: 0191 411 1200

Email us: power@johnfhunt.co.uk
johnfhuntpower.co.uk

Appendix A

Recorded fuel consumption figures of 300 kVA running on red diesel and GreenD+ HVO.

	Fuel Consumption - Litres per Hour				
	0% Load	25% Load	50% Load	75% Load	100% Load
Red Diesel	5.4	19.2	33	45	56
Green D+ HVO	5.1	18.2	32.6	44.3	55.2

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