KAO DATA

## Our road to Net Zero:

## **HVO** fuel

The data centre industry uses diesel generators for backup power resiliency. Whilst rarely needed, these generators need to be tested regularly. The normal testing regime for an industrial grade (1965kW) generator is 2 hours per month (a total of 24 hours of test runs across a year).

This consumes 12,000 litres of diesel (EN590) per

That's the same emissions as driving a car

...and produces over of carbon dioxide (CO<sub>2</sub>)

per generator. London's 1000MW would need

**Gigawatt** data centre hub (1,000MW) by 2023.

Computer Weekly estimates London will be a

of diesel per year.

...and pumps out

...the equivalent carbon

footprint of 2000 people, per year.

Annually, that's enough diesel to fill more than 2 Olympic sized

swimming pools

It's why, in July 2021, Kao Data found a cleaner alternative fuel, becoming the first data centre developer/operator in Europe to transition all its backup power generation from diesel (EN590) to 100% HVO fuel.



or animal fats, HVO fuel (EN15940) is a second-generation, recycled and treated natural vegetable oil, refined to burn cleaner and more efficiently than fossil fuels.

Manufactured from waste food stocks, raw plant oils, used cooking oils

Compared to diesel, using HVO fuel eliminates up to 90% of net CO, for every 1,000 litres of fuel consumed:

**Diesel** 



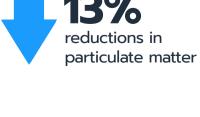
fuel

elminates up to of net CO



free, which prevents microbiological or diesel bug attacks - a type of sludge commonly found in first generation bio-diesel fuel which can block fuel lines. HVO fuel is cleaner, more reliable and can be stored for up to 10 years compared to 1 year for traditional diesel.

HVO fuel is also Fatty Acid Methyl Ester (FAME)





reductions in nitrogen oxide emissions



Kao Data have proved that HVO fuel can be transitioned into industrial grade generators and used now. The process is easy, fast, no modifications are required, and the impact is immediate. Save up to

90% of your generator's CO<sub>2</sub> emissions and switch to HVO fuel now.