

RENEWABLE FUEL READY:

POWERBLOCK[®] GENERATION SYSTEMS



How Renewable Fuels Can Help Accelerate Reaching Net Zero



Scope 1 Emissions

The use of **HVO** will result in an overall fossil-based reportable **reduction of CO₂e** emissions by **100%**

Hydrotreated Vegetable Oil (HVO)

- Up to **90%** carbon reduction when compared to fossil diesel over its life cycle
- Produced from **100%** renewable raw materials

Uncovering the Science Behind Renewable Fuels

What constitutes a Renewable Fuel?

As a “drop-in fuel” Hydrotreated Vegetable Oil (HVO) is fully interchangeable with fossil-based diesel requiring no modifications to existing equipment and can also be blended with its fossil counterpart.

Hydrotreated Vegetable Oil

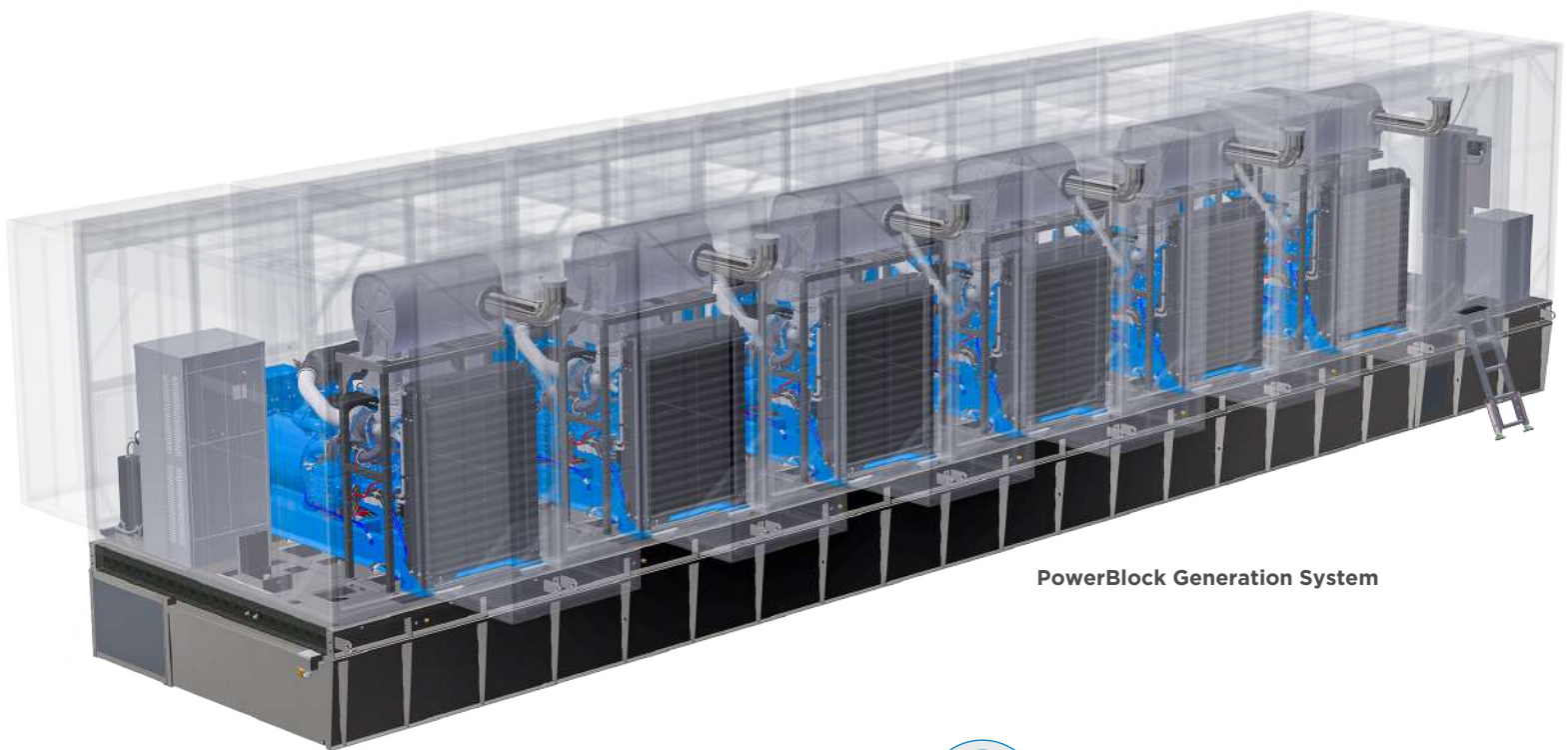
- **Feedstock:** HVO is made from 100% renewable raw materials, such as used cooking oil or animal fat from food industry waste that contains already-existing carbon molecules, which can be processed into renewable fuels.
- **Method of Production:** HVO is made through various processes that remove oxygen from the feedstock, making it a viable substitution for fossil diesel.
- **HVO vs. Biodiesel:** Often spoken of interchangeably, they are very different products although both are made from organic biomasses. HVO’s manufacturing process creates a fuel that, unlike biodiesel, is chemically identical to fossil diesel.



PowerBlock® Generation Systems Offer a Drop-In Solution for the Seamless Integration of Renewable Fuels

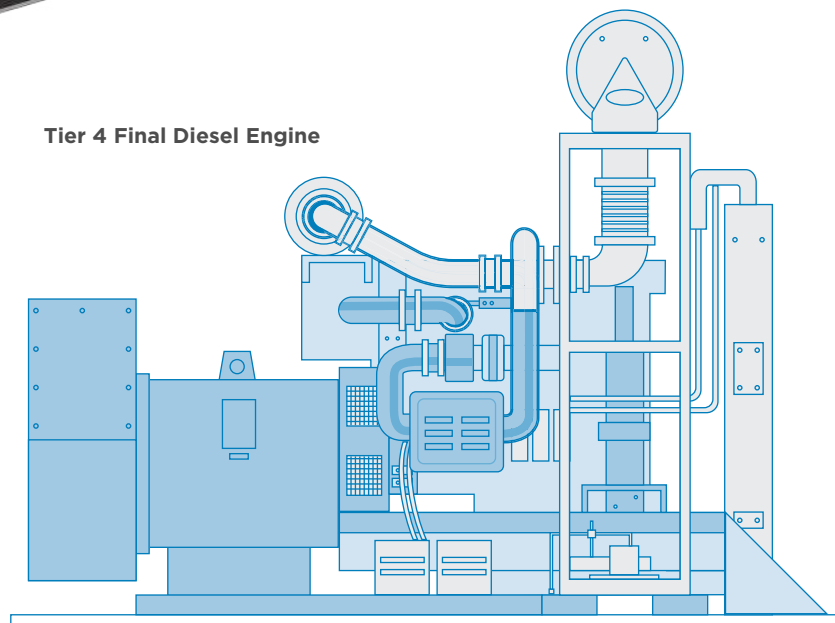
PowerBlock generation systems are fully equipped to transition to renewable fuels. No asset upgrades or modifications are necessary.

HVO meets the same ASTM D975 specification (a series of 13 tests diesel fuel must meet at the time of delivery) as fossil diesel, making it a drop-in fuel source for engines like the Volvo Tier 4 Final Diesel.



PowerBlock Generation System

Tier 4 Final Diesel Engine



Renewable Fuels

A Today and Forward-Thinking Solution

The future of Renewable Fuels

As we move to implement sustainable solutions and tackle environmental challenges, the catalyst of change boils down to a simple thing — end users, businesses, cities, all those that have a need for fuel also must have climate plans in place. Investors are demanding Environmental, Social and Governance (ESG) plans, and employees expect their organizations to establish climate initiatives.

Although there is a continual effort to develop new technologies, it is also crucial to acknowledge the tools that exist now. Renewable fuels are not just a future solution, they are a today solution. There is no need to train employees on how to use, handle or store these fuels. As a drop-in fuel, there is no need to change operations or invest in infrastructure.

Renewable fuels are becoming more accessible by the day. According to the U.S. Energy Information Administration, between January 2022 and January 2023, the U.S. production capacity for producing renewable diesel and other biofuels increased by 1.25 billion gallons per year, a 71% increase from 2022. In January 2023, 11 states reported sites with renewable diesel and other biofuels production capacity, up from six states in 2022. An example of a state with new and growing capacity is Texas, which had no renewable diesel and other biofuels capacity in January 2022. By January 2023, Texas had 537 million gal/y of capacity, the second highest after Louisiana. Renewable fuels leave no space for vague commitments but create opportunity for sustainable actions to be taken now.

Drop-in fuel: how to adopt renewable fuels today

PowerSecure is now offering all customers the option to switch to HVO. PowerSecure provides clean and reliable power for everyday operation and during unanticipated grid outages. As organizations continue to evolve their energy strategies to prepare for the future, partnering with a solutions provider that readily adapts to fuel technology changes entering the marketplace is critical. Flexible, forward-facing technology solutions will be key to building the future of energy and achieving net zero goals for a brighter future.

To learn more about renewable fuels and how PowerSecure is helping customers prepare to be future ready, visit powersecure.com/renewable-fuel-ready.