

# BIODIESEL+RENEWABLE DIESEL Better Together









### **BIODIESEL & RENEWABLE DIESEL**

are low-carbon diesel-replacement fuels produced from renewable feedstocks such as used cooking oil, animal fats, inedible corn oil, soybean oil and canola oil.



# **BIODIESEL** IS...

Produced through esterification or transesterification, a simple process that reacts a fat or oil with a small amount of alcohol (typically methanol) to produce a finished fuel.





Produced through hydrotreating, a process similar to a traditional refinery operation. This high-heat, high-pressure process produces a fuel that is chemically indistinguishable from conventional diesel.

A "drop-in" fuel that can be used in all engines and equipment up to 20% and many up to 100%.



A "drop-in" fuel that can be used in all engines and equipment up to 100%.

Non-toxic, biodegradable, ultra-low sulfur and 0% aromatics



Ultra-low sulfur and 0% aromatics.

Better for engines due to higher cetane and improved lubricity.



Better for engines due to higher cetane.

Made to meet the requirements of ASTM D975 (B5), D7467 (B6-B20), and D6751 (B100).



Made to meet the requirements of ASTM D975 (all blends).



## THE **BEST FUEL** IS...

A combination of biodiesel and renewable diesel produces a cost-effective full replacement option for petroleum diesel. As a paired fuel, biodiesel and renewable diesel optimize petroleum displacement and cost, as well as particulate matter, carbon and nitrogen oxide reductions.



Up to 79% less carbon emissions.

80% particulate matter reduction.

75% fewer aromatic compounds.

42% less carbon monoxide.

NOx neutral.



Up to 79% less carbon emissions.

5-28% particulate matter reduction.

30% fewer aromatic compounds.

18% less carbon monoxide

11.5% NOx reduction.



Up to 79% less carbon emissions.

29% particulate matter reduction.

39% fewer aromatic compounds.

23% less carbon monoxide

9% NOx reduction.



Up to 79% less carbon emissions.

56% particulate matter reduction.

53% fewer aromatic compounds.

30% less carbon monoxide

6% NOx reduction.

#### ABOUT BIODIESEL AND RENEWABLE DIESEL



Made from plant-based oils, used cooking oils, and animal fats





Can be used in any diesel engine without modification



available nationwide



trucking, emergency vehicles, bus fleets, and farm equipment

nbb.org biodiesel.org mybioheat.com





