Clean Fuels ALLIANCE AMERICA

BIODIESEL + RENEWABLE DIESEL

Better Together

BIODIESEL & RENEWABLE DIESEL

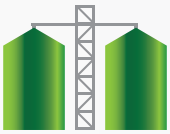
are low-carbon diesel-replacement fuels produced from renewable feedstocks such as used cooking oil, animal fats, inedible corn oil, soybean oil and canola oil.

B 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.

RD RENEWABLE DIESEL IS...

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.



BIODIESEL		RENEWABLE 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).

B + RD 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.

	B100	RD100	B20 RD80	B50 RD50
GHG	Up to 79% less carbon emissions.	Up to 79% less carbon emissions.	Up to 79% less carbon emissions.	Up to 79% less carbon emissions.
PM	80% particulate matter reduction.	5-28% particulate matter reduction.	29% particulate matter reduction.	56% particulate matter reduction.
BTX	75% fewer aromatic compounds.	30% fewer aromatic compounds.	39% fewer aromatic compounds.	53% fewer aromatic compounds.
CO	42% less carbon monoxide.	18% less carbon monoxide.	23% less carbon monoxide.	30% less carbon monoxide.
NO_x	NOx neutral.	11.5% NOx reduction.	9% NOx reduction.	6% NOx reduction.

ABOUT BIODIESEL AND RENEWABLE DIESEL

Sources: Impact of biodiesel and renewable diesel on emissions of regulated pollutants and greenhouse gases on a 2000 heavy duty diesel truck, California Air Resources Board, 2015; Effects of biodiesel blends on emissions, National Renewable Energy Laboratory, 2006.

- Made from plant-based oils, used cooking oils, and animal fats
- Clean-burning ultra-low carbon
- Can be used in any diesel engine without modification
- Commercially available nationwide
- Today's solution for heavy-duty trucking, emergency vehicles, bus fleets, and farm equipment

cleanfuels.org

Materials sponsored by soybean farmers and their checkoff.

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