

Sustainability



NOW YOU CAN



READY TO LOWER EMISSIONS WITHOUT CAPITAL COSTS?

The road to reduced emissions does not have a one-size-fits-all answer. Companies will use a variety of solutions in their efforts to reach their net zero goals, including the choice of biodiesel and renewable diesel.



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THE U.S. AND CANADA

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1. WHAT IS RENEWABLE DIESEL?

Renewable diesel (RD) is a biomass-based diesel fuel that can be used as a drop-in replacement for ULSD. RD may be used in existing pipelines, tanks, and engines as is, without the need to be blended with petroleum diesel.

Renewable diesel goes through a refining process similar to petroleum diesel, resulting in higher costs than other renewable fuels. For this reason, RD is primarily available in states that incentivize its use, such as California and Oregon.

Renewable diesel is chemically equivalent to petroleum diesel, meaning fleets receive the same performance and power while emitting 65% fewer GHGs than diesel.

3. WHAT'S THE DIFFERENCE

Similarities

- ✓ Both reduce GHGs by 65% at 100% blends
- ✓ Both are nontoxic and biodegradable
- ✓ Both offer higher Cetane Numbers than ULSD

Differences

- ✓ Renewable diesel is only available in certain markets. Biodiesel is available nationwide.
- ✓ Biodiesel offers an added benefit of increased lubricity, while RD does not.
- ✓ Biodiesel can be blended up to 20% without invalidating most OEM warranties, while 100% RD has been approved by most engine manufacturers.

2. WHAT IS BIODIESEL?

Biodiesel is a renewable diesel fuel that can be blended with petroleum diesel or RD at rates up to 20% without voiding engine warranties.

The biodiesel production process is less intensive than renewable diesel, reducing its cost. Biodiesel is cost-competitive with petroleum diesel in many areas of the country.

Biodiesel is available throughout the US and Canada. Federal, state, and local incentives may contribute to lowering the overall cost of biodiesel relative to petroleum diesel.

Biodiesel blends are mandated in some states such as Minnesota, Illinois and Pennsylvania.

4. MAKING THE PICK

There is no perfect solution, and both products offer unique benefits. Where available, an **R80/B20 blend** (80% renewable diesel, 20% biodiesel) offers optimal benefits: maximum emissions reduction combined with improved cetane and lubricity.

Where RD is not available or economically favored, biodiesel is an alternative for immediate emissions improvements.

A B20 blend reduces GHG emissions by roughly 15% compared to ULSD. That's comparable to the impact of converting to CNG or EVs - without the high capital costs.



Learn more about improving your sustainability.

