



U.S. DEPARTMENT  
of **ENERGY**

Office of Critical Minerals  
and Energy Innovation

# Renewable Diesel as a Vehicle Fuel

**Find research-based information  
on the Alternative Fuels Data  
Center website**

Learn about the properties of renewable  
diesel fuel, explore its benefits and methods  
of production, and access tools and datasets.



[AFDC.ENERGY.GOV/FUELS/RENEWABLE-DIESEL](https://afdc.energy.gov/fuels/renewable-diesel)

# Considering Using Renewable Diesel as a Vehicle Fuel?

Renewable diesel is most often made from fats, oils, and greases. It provides a flexible alternative fuel option since it can be used in existing diesel engines and refueling infrastructure without the need for retrofits or upfits. In addition, it can be made from multiple feedstocks

and produced at plants that also make sustainable aviation fuel.

Note that renewable diesel and biodiesel are not the same fuel. Renewable diesel is a hydrocarbon produced most often by hydrotreating, as well as gasification,

pyrolysis, and other biochemical and thermochemical technologies. Renewable diesel can be used as a replacement fuel or blended with any amount of petroleum diesel.

## Dive Into the Details: What You'll Find on the AFDC

- Basics of renewable diesel, such as its production methods and the differences between renewable diesel and biodiesel
- Considerations for use, such as engine and infrastructure compatibility
- Research and development on renewable diesel scale-up
- Maps, data, case studies, publications, and tools



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For more information, visit: [afdc.energy.gov](https://afdc.energy.gov)  
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