

# BIODIESEL BASICS

Learn about renewable, sustainable biodiesel fuel

## Key benefits of biodiesel

### Lower emissions compared to petroleum diesel\*

- 74% ↓ greenhouse gases
- 67% ↓ hydrocarbons

### Made from renewable sources

- Soybean oil
- Recycled cooking oil
- Other fats and oils



### Safer to handle

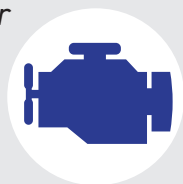
- Non-toxic
- Biodegradable
- Higher flashpoint than petroleum diesel

### B20 is a drop-in replacement

- Approved by major manufacturers
- No engine modifications required
- No additional infrastructure needed

### Better engine performance

- Improved lubricity for less engine wear
- Higher cetane for smoother operation
- Less soot production for reduced wear on diesel particulate filters
- All-weather fuel



### Supports the U.S. economy\*\*

- 1.8 billion gallons produced annually
- 65,000 jobs
- \$17 billion in economic opportunity

## What is biodiesel?

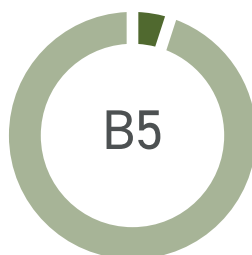
**Biodiesel is an advanced biofuel** that reduces engine emissions for healthier air and a better environment. Fleets have easily and economically reduced their carbon footprint by replacing petroleum-based diesel with cleaner-burning biodiesel for over 30 years.

Communities benefit when transportation, construction, municipal and other fleets fuel with biodiesel.

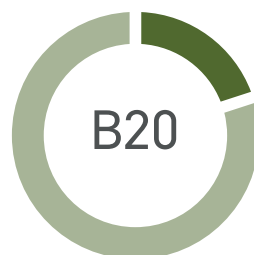


## Biodiesel blends explained

Biodiesel is typically blended with petroleum diesel for fueling vehicles and other equipment. B20 is a biodiesel blend widely adopted by fleets throughout the U.S. Fuel system modifications allow vehicles to use B100 in cold weather for even greater emission reductions



5% Biodiesel  
95% Petroleum diesel



20% Biodiesel  
80% Petroleum diesel



100% Biodiesel

\*Source: U.S. Department of Energy Alternative Fuels Data Center

\*\*Source: Capital Policy Analytics