



Clean Fuels
ALLIANCE AMERICA



MICHIGAN



Good for Michigan's *Farmers*
Good for Michigan's *Environment*

BIODIESEL: MICHIGAN'S ECONOMIC ENGINE



Economic & Agricultural Impacts

480 Michigan jobs supported by biodiesel

\$117M Biodiesel's impact on Michigan GDP, excluding farm level impact

2.14M Michigan's farmers harvested 2.14 million acres of soybeans in 2021, producing 109.14 million bushels



Michigan Original Equipment Manufacturers' Support for B20

In the GVW Class 5-8 vehicles that account for 92% of on-road diesel fuel use, the vast majority of new diesel engines now have full OEM support for B20 and lower blends meeting ASTM standards with no vehicle modifications required.



Ford supports B20 in all of their Class 2-5 Super Duty & Class 6-7 Medium Duty Trucks from model years 2011 onward



General Motors has 23 different diesel vehicle models available in the U.S. market in 2020-21 – all support B20



Fiat Chrysler supports the use of B20 in its 6.7L Turbo Diesel Ram 2500, 3500, 4500 & 5500 HD pickups and the 3.0L Ram 1500 Light Duty diesel pickup



Jeep Wrangler and Jeep Gladiator support B20

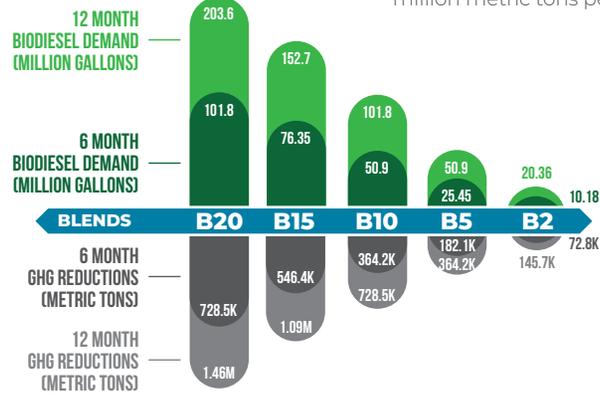


The entire diesel fleet of Peterbilt and Kenworth Medium and Heavy-Duty trucks supports the use of B20 biodiesel blends



Michigan Biodiesel Standard

A statewide renewable fuel standard would drastically increase Michigan's potential demand for biodiesel blends and eventually reduce greenhouse gas (GHG) emissions by more than 1.4 million metric tons per year.



Michigan's Biodiesel PRODUCTION & CONSUMPTION



Michigan biodiesel plants



Production capacity in gallons (as of December 2020)



Gallons produced in 2020



34.25M

Estimated gallons used in 2020

Michigan's economy-wide carbon goals:



- Reduce GHG emissions 28% by 2025
- 52% by 2030 = 92.95 million metric tons of carbon
- Achieve carbon neutrality by 2050
- Maintain net-negative GHG emissions

ABOUT BIODIESEL AND RENEWABLE DIESEL

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

Clean-burning



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
mybioheat.com

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Materials supported by soybean farmers and their checkoff.

Sources: Michigan Renewables Data and Map, U.S. Energy Information Administration; Frizell, R., "NBB Static Biodiesel Shock," INTL FCStone, 2019; Michigan Department of Environment, Great Lakes, and Energy, MI Healthy Climate Plan, April 2022; Green Solutions, based on available EIA data and EPA Pollution Prevention GHG Calculator; National Agriculture Statistics Service, 2021 State Agriculture Overview, Michigan.