



Clean Fuels
ALLIANCE AMERICA



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

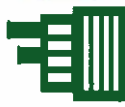
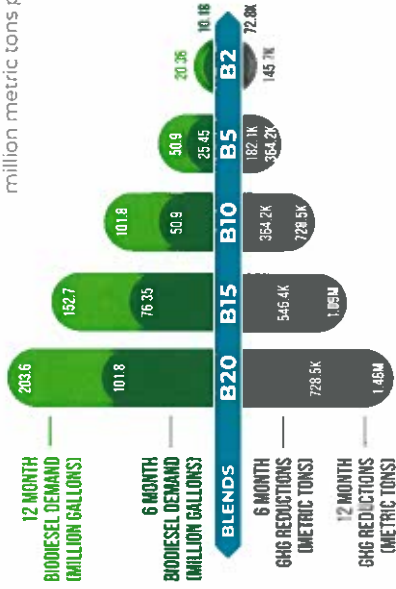


Michigan's farmers harvested 2.14 million acres of soybeans in 2021, producing 109.14 million bushels



Michigan Biodiesel

Initiatives to prioritize and promote renewable fuels like biodiesel would 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 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



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



Clean-burning engine without modification



Commercially available nationwide



Today's solution for heavy-duty trucking, emergency vehicles, bus fleets, and farm equipment

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mybioheat.com

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Sources: US & Canada Biodiesel & Renewable Diesel/SAF Plant Map 2024 - Biodiesel Magazine; BBI International Media; Biodiesel Summit (data as of 10/9/2023); Frizell, P., "NBB Static Biodiesel Shock," INTL FCS:one, 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



Michigan's Biodiesel PRODUCTION & CONSUMPTION



Michigan biodiesel plants

16M

Production capacity in gallons (as of December 2023)



29.4M
Estimated gallons used in 2021

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