



Clean Fuels  
ALLIANCE AMERICA

MASSACHUSETTS  
Good for Massachusetts' *Environment*  
Good for Massachusetts' *Economy*

## BIODIESEL CAN HELP MASSACHUSETTS ACHIEVE ITS CLEAN ENERGY GOALS



### Environmental Solutions

**B10** 10% biodiesel blend eliminates 65.2 million gallons of petroleum in heating oil, the equivalent of making 64,165 homes carbon neutral.

**B20** 20% biodiesel produces a 14.6% reduction in CO<sub>2</sub> emissions and better GHG performance than natural gas (NESCAUM).

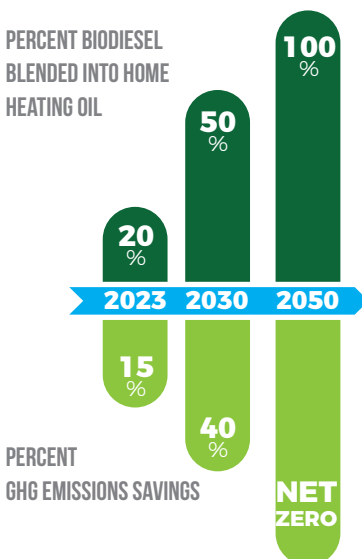
**B50** 50% biodiesel eliminates 326.4 million gallons of petroleum in heating oil and 2.8 million metric tons of carbon.

**B100** 100% biodiesel eliminates 653 million gallons of petroleum in heating oil and 5.57 million metric tons of carbon.



B10 and higher biodiesel blends qualify as Eligible Liquid Biofuels under the state's Alternative Energy Portfolio Standard (APS). In 2018, the state used biofuels to meet 14.6% of the APS requirement.

PERCENT BIODIESEL  
BLENDED INTO HOME  
HEATING OIL



### HEATING INDUSTRY PROPOSAL TO LOWER CARBON EMISSIONS

Under the Providence Resolution, the heating oil industry has established benchmarks to achieve **net-zero emissions by 2050** using Bioheat® fuel.

### Economic Solutions

708,000



homes and businesses rely on Bioheat® (27% of households)

#3



the third largest consumer of heating oil in the U.S.

76M



gallons of B100 sold via the state APS incentive program

1



biodiesel producer with 1-million gallons annual capacity

78



retail biodiesel distributors participate in the state's APS incentive program

### CURRENT MANDATES

Chapter 8 of the Acts of 2021

2030 = 50% Carbon Reduction

2040 = 75% Carbon Reduction

2050 = Carbon Neutral

vs. 1990 levels



By 2023, Massachusetts will implement a long-term declining emissions cap on heating fuels.

More than 50% of Massachusetts GHG emissions are produced by light-duty passenger vehicles and residential and commercial space and water heating. About 5 million light-duty passenger cars and trucks generate around 60% of statewide transportation sector emissions, and approximately 3 million residential households generate about 60% of statewide building sector emissions.



Sources: Massachusetts Department of Energy Resources, 2018 Annual Compliance Report, June 2021; U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates; U.S. Energy Information Administration, State Profile and Energy Estimates, Sept. 2021; LMC International, "Economic Impact of the U.S. Biodiesel Industry," 2019; "Leading the Way Toward a Zero-Carbon Future," NEFI, 2019; U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator; NESCAUM, "Low Sulfur Heating Oil in the Northeast States: An Overview of Benefits, Costs and Implementation Issues," December, 2005, p. 2-7.

cleanfuels.org  
biodiesel.org  
mybioheat.com

**DC** 1331 Pennsylvania Ave., NW  
Suite 505  
Washington, DC 20004  
**888-246-3437**

**MO** 605 Clark Avenue  
PO Box 104898  
Jefferson City, MO 65110  
**800-841-5849**

**MA** 36 Jonspin Road  
Suite 235  
Wilmington, MA 01887  
**781-361-0156**

**CA** 1415 L Street  
Suite 460  
Sacramento, CA 95814  
**916-760-8870**

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