



BIODIESEL CAN HELP RHODE ISLAND ACHIEVE ITS CLEAN ENERGY GOALS

Environmental Solutions

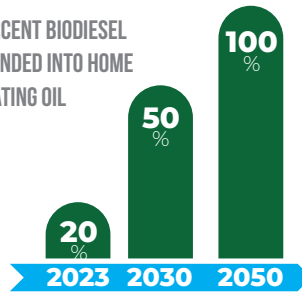
B10 10% biodiesel blend eliminates 13.8 million gallons of petroleum in heating oil, the equivalent of making 13,581 homes carbon neutral.

B20 20% biodiesel produces a 14.6% reduction in CO₂ emissions and better GHG performance than natural gas.

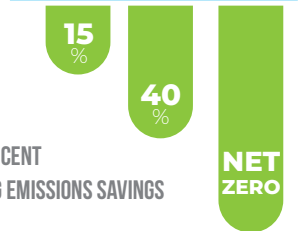
B50 50% biodiesel blend eliminates 69 million gallons of petroleum in heating oil, the equivalent of making 67,905 homes carbon neutral.

B100 100% biodiesel eliminates 138 million gallons of petroleum in heating oil and 1.2 million metric tons of carbon.

PERCENT BIODIESEL BLENDED INTO HOME HEATING OIL



PERCENT GHG EMISSIONS SAVINGS



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

123,000 homes and businesses rely on heating oil (31% of households)

109M gallons of Bioheat® fuel delivered annually

47% of RI's single-family homes and 43% of its small businesses rely on heating oil.

In less population dense areas of western Rhode Island, Newport County, and Block Island, the majority of homes are heated with delivered fuel oil.

CURRENT MANDATES

Under current law, RI requires blends of **5% biodiesel or renewable diesel** in all heating oil for residential, commercial, or industrial uses.



The requirement increases to:

- 10% by 2023
- 20% by 2025
- 50% by 2030

All heating fuel purchased by RI state agencies now contains at least 5% biofuel. All state agencies also can purchase 20% and 99% biodiesel blends.

Rhode Island General Laws exempt biodiesel produced in state from the motor fuel excise tax.

2021 Act on Climate establishes greenhouse gas reduction mandates:

- 45% below 1990 levels by 2030
- 80% below 1990 levels by 2040
- net zero by 2050

Sources: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates; U.S. Energy Information Administration, Distillate Fuel Oil and Kerosene Sales by End Use, Five Year-Avg., 2015-2019; "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; Rhode Island Department of Environmental Management, Rhode Island's 2016 Greenhouse Gas (GHG) Emissions Inventory; Meister Consultants Group, Rhode Island Renewable Thermal Market Development Strategy, prepared for the Rhode Island Office of Energy Resources, January 2017; Brattle Group, Heating Sector Transformation in Rhode Island, April 2020.