

Clean Fuel Standard - Enhancing Air Quality and Well-Being

Transportation emissions are the leading source of climate and air pollution, both of which contribute to significant health impacts for Michiganders.

IMPLEMENTING A CLEAN FUEL STANDARD WAS PROJECTED TO RESULT IN A **27% DEEPER REDUCTION IN EMISSIONS** FROM THE TRANSPORTATION SECTOR BY 2035 COMPARED TO MAINTAINING THE CURRENT BUSINESS-AS-USUAL APPROACH.

With a Clean Fuel Standard, Michiganders can breathe easier.

The standard will incentivize the use of cleaner transportation fuels and options, reducing harmful emissions of nitrous oxides (NO_x) and PM_{2.5}, both of which can cause respiratory and other serious health issues.

- Analysis of light-duty and heavy-duty vehicle use shows that a Clean Fuel Standard would reduce NO_x emissions by 10%.
- The EPA COBRA model projected the reduction in PM_{2.5} created by a Clean Fuel Standard would reduce premature mortality with benefits valued at about \$275 million annually.

Fewer harmful emissions means more dollars in Michiganders' pockets, too. The EPA model attributed \$3.4 million in annual benefits to counties on average, with some counties realizing as much as \$93 million in annual benefits by 2035.

These benefits will spread to all Michiganders. Every single county will experience improvements in air quality. Areas that have the greatest air quality benefits include those that have higher populations and more traffic.

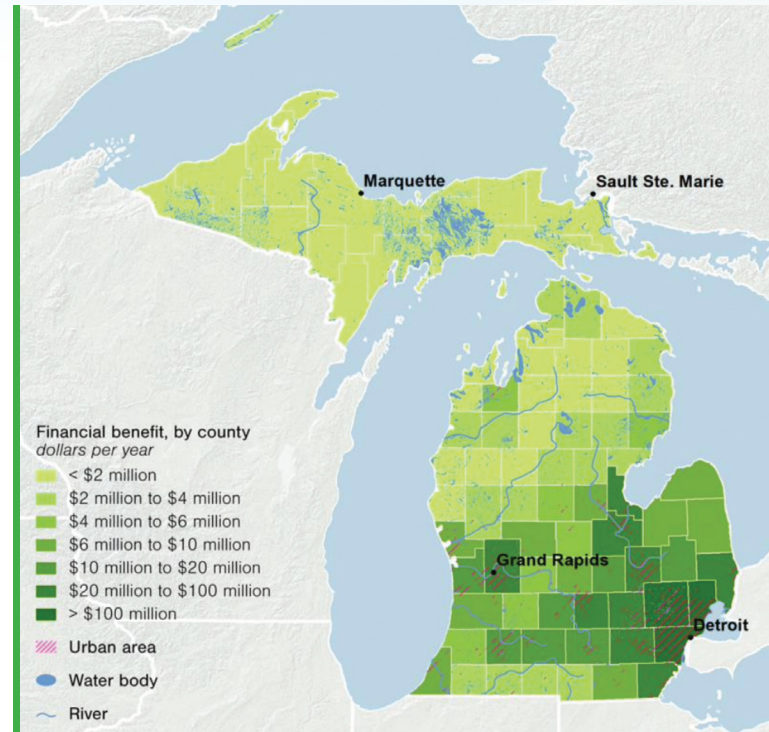


Figure authored by Elizabeth Abramson, Horizon Climate Group based on COBRA modeling by Paul Meier, University of Wisconsin (October 2023).

STUDY METHODOLOGY

The CO-Benefits Risk Assessment Health Impacts Screening and Mapping Tool (COBRA), an Environmental Protection Agency screening model, was used to assess how a Michigan clean fuel standard would impact air pollution and human health. This analysis was completed by Paul Meier, P.E., PhD., Holloway Group at the University of Wisconsin-Madison's Center for Sustainability & Global Environment.

Data and Sources used include:

- Transportation Sector Vehicle Fleet and Emissions – EPA MOVES model, 2021
- Ethanol Emission Factor Adjustment – Kazemiparkouhi, et. al., 2022
- Michigan Power Plant Emissions – EPA Clean Air Markets Program Database, 2022
- Power Plant Retirements – U.S. Energy Information Administration Form 860, 2023
- Electricity Decarbonization Goals – Michigan Healthy Climate Plan, 2022
- Health Benefits Calculation – EPA Co-Benefits Risk Assessment (COBRAv4.1) tool

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Senate Bill 275 and House Bill 5083 would enact a Clean Fuel Standard, allowing Michigan communities to reap these benefits.

standard.cleanfuelsmi.org

The Michigan Clean Fuel Standard Coalition comprises dozens of organizations across many industries that are dedicated to advancing clean mobility. For more information, visit standard.cleanfuelsmi.org.