



GRETCHEN WHITMER
GOVERNOR


STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING



LIESL EICHLER CLARK
DIRECTOR

VIA EMAIL

TO: Governor Gretchen Whitmer
Members of the Michigan Legislature

FROM: Liesl Eichler Clark, Director 

DATE: December 27, 2022

SUBJECT: Report on Waste Minimization and Waste Reduction Assistance

In accordance with Section 324.14306 of Part 143, Waste Minimization, and Section 324.14510 of Part 145, Waste Reduction Assistance, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, attached is the Department of Environment, Great Lakes, and Energy's (EGLE) report on Waste Minimization and Waste Reduction Assistance for fiscal year 2022.

If you need further information, please contact Elizabeth M. Browne, Director, Materials Management Division, at 517-242-2746; or you may contact me at 517-512-5992.

Attachment

cc/att: Kathryn Summers, Director, Senate Fiscal Agency
Mary Ann Cleary, Director, House Fiscal Agency
Christopher M. Harkins, Director, State Budget Office
JoAnne Huls, Chief of Staff, Governor's Office
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MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

Legislative Report

Waste Minimization and Waste Reduction Assistance Report

Report Period:
Fiscal Year 2022

Authority:

Section 324.14306 of Part 143, Waste Minimization, and Section 324.14510 of Part 145, Waste Reduction Assistance, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended

MCL 324.14302 Pollution prevention; incorporation; purpose; personnel and support staff.

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) conducted the following actions to incorporate pollution prevention (P2) goals within its regulatory and permit programs, including data collection and analysis to advance the concept and implementation of P2:

- The P2 Program identified per- and polyfluoroalkyl substances (PFAS) as an opportunity to encourage P2 through EGLE's regulatory and permit programs and actively engaged with the Michigan PFAS Action Response Team (MPART) and its statewide workgroups to explore and implement P2 solutions.
- The Clean Diesel Program, with a United States Environmental Protection Agency (USEPA), Diesel Emissions Reduction Act grant, supported the P2 priorities of the USEPA, and the Clean Diesel Program to maintain and/or gain compliance with the National Ambient Air Quality Standard for Ozone, including reduction of particulate matter (PM_{2.5}), nitrogen oxides (NO_x), and carbon dioxide.
- The Fuel Transportation Program used P2 strategies to reduce vehicle emissions to maintain and/or gain compliance with the National Ambient Air Quality Standard for Ozone.
- The P2 Program participated in the Council on Climate Solutions – Transport and Mobility Workgroup and assisted with the creation of recommendations to the Council on Climate Solutions. These recommendations focused on greenhouse gas emissions reduction strategies from vehicle electrification and low-carbon fuels and strategies for reducing vehicle-miles traveled.
- The P2 Program participated in a Michigan Department of Technology, Management and Budget workgroup focused on sustainability practices at state facilities.

MCL 324.14303 Pollution prevention; duties of department; emphasis on in-plant pollution prevention and reduction of hazardous waste.

EGLE conducted the following activities:

- Identified PFAS as an opportunity to encourage P2 through EGLE's regulatory and permit programs and actively engaged with MPART to explore and implement P2 solutions.
- Set goals to reduce diesel emissions in the state to protect human health and improve air quality. The EGLE Fuel Transformation Program funded 14 projects to replace 48 old medium- and heavy-duty vehicles with new diesel, propane, compressed natural gas, or all-electric vehicles. These projects have a direct impact on improving air quality and have an estimated total lifetime emission reduction of 44.06 metric tons of NO_x, 4.52 metric tons of PM 2.5, and 5,651.43 metric tons of greenhouse gasses.
- The Michigan Clean Diesel Program focuses on reducing diesel emissions from vehicles, engines, and equipment, prioritizing areas designated as having poor air quality and gaining or maintaining compliance with the National Ambient Air Quality Standard for Ozone. The fiscal year (FY) 2022 grant included Justice40 Initiative guidelines in the criteria for the selection of projects that replaced a 1996 Class 8 diesel delivery truck with a 2022 Nikola Class 8 electric semitruck. The expected emission lifetime reductions from FY 2022 projects are 1.74 metric tons of NO_x and .02 tons of PM 2.5.
- Continued efforts to improve recycling in Michigan through the following programs:
 - Materials management planning, including grants to counties, regional planning agencies, municipalities, and other entities responsible for preparing, implementing, and maintaining materials management plans.
 - Local recycling programs, including grants to local units of government, nonprofit, and for-profit entities for recycling infrastructure, local recycling outreach campaigns, and other costs necessary to support increased recycling.
 - Market development, including grants to local units of government and nonprofit and for-profit entities, for purchasing equipment, research and development, or associated activities, to

provide new or increased use of recycled materials to support the development of recycling markets.

- NextCycle Michigan, a State of Michigan-sponsored partnership and innovation platform designed to support the state's recycling, climate, and circular economy objectives through broad and diverse engagement across Michigan. NextCycle Michigan is designed to help applicants bring quality recycling projects forward, not just for EGLE grant funding, but for broader recycling public and private investment across the state.

MCL 324.14304 Transmitting certain information.

Due to changing technology, the USEPA maintains relevant information received under Title 42 of the Code of Federal Regulations, Emergency Planning and Community Right-to-Know, Section 313 of Subtitle B of Title III of the Superfund Amendments and Reauthorization Act of 1986, Public Law 99-499, 11023, and makes it available to EGLE online at: [EPA.gov/Toxics-Release-Inventory-Tri-Program/Tri-Data-and-Tools](https://www.epa.gov/toxics-release-inventory-tri-program/tri-data-and-tools).

MCL 324.14502 Reduction in amount of generated environmental waste; emphasis on pollution prevention; personnel; staff and services.

EGLE administered the following initiatives and programs to inform, assist, educate, and provide funding to facilitate a reduction in the amount of environmental waste generated in the state with a particular emphasis on in-plant P2:

- Conducted six webinars and one conference to educate interested organizations about P2 technologies with a particular emphasis on alternative fuels and sustainability. The Sustainability Series Webinars targeted sustainability professionals, consulting, nonprofit, government, and communities. The Michigan Clean Diesel Program and Fuel Transformation Program school bus grant administration targeted local, regional, state, federal governments, transportation, transit agencies, schools and universities, non-profits, and regional planning agencies. The Michigan Sustainability Conference focused on targeted industries, including fuel transformation, sustainability professionals, industry, healthcare, recycling, and communities.
- Administered Michigan's allocation of funds from the Volkswagen Settlement, with a focus on mitigating oxides of nitrogen emitted into the air from diesel engines.
- Administered the Clean Corporate Citizen Program and the Michigan Business P2 Program, which recognized businesses for their environmental compliance and improvement of their environmental performance.
- Provided nine presentations with a particular emphasis on alternative fuels and sustainability. Presentations were made for the following:
 - Michigan Sustainability Conference
 - Michigan Association of CPAs
 - Michigan Association of Pupil Transportation
 - Midwest Clean Diesel Initiative
 - Co-hosted Clean School Bus event with EGLE Environmental Education and USEPA
 - Michigan Small Business Development Center
 - Panel with Representative Sarah Anthony
 - Council on Climate Solutions
 - Webinar for EGLE staff, regarding medium- and heavy-duty vehicle electrification and FTP applications

MCL 324.14503 Pollution prevention information clearinghouse; establishment; duties; contracts.

EGLE maintained a P2 Program Website:

- Published information describing P2 technologies.

- Distributed publications pertaining to P2.
- Provided information and application forms, as necessary to fulfill EGLE’s responsibilities.

EGLE also sponsored P2 workshops, targeted at specific industries, with a focus on the health, environmental, and educational benefits of emission reductions from school buses. EGLE staff also participated in conferences, meetings, and webinars of business organizations to offer P2 assistance.

MCL 324.14504 Pollution prevention technical assistance.

EGLE provided and supported technical assistance regarding P2 to business and industry throughout the state by providing instruction on self-conducted environmental waste audits, consultant referrals, on-site assistance to business and industry, and other information and assistance. These actions were primarily accomplished by the following activities:

- Conducted a webinar, the Sustainability Series, in collaboration with Green Portfolio Solutions, LLC.
- Hosted the Michigan Sustainability Conference in collaboration with Michigan Green Communities, Catalyst Communities, and Michigan Health & Hospital Association.

MCL 324.14506 Pollution prevention research grants program; establishment; distribution of information and applications for grants; form and contents of application; recipients of grants; considerations.

Funding was not allocated for this activity in FY 2022.

MCL 324.14513 Small business pollution prevention assistance revolving loan fund; creation; disposition; lapse; expenditure; loan eligibility requirements; loan limitations; “fund” defined.

EGLE participated in the USEPA P2 Financing Workgroup, to collaborate with the USEPA and other states for review and coordination of resources for P2 financial assistance and provided technical assistance for the development of the [USEPA Financing Tip Sheet](#) and [An Introduction to Pollution Prevention Finance \(https://www.epa.gov/p2/p2-financing\)](#). EGLE has continued to maintain the small business P2 loan program; however, no new loans were executed during FY 2022.