



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

# Materials Management Division Updates

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Materials Management Division

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# Materials Management Division at a Glance

The division consists of about 130 staff within the executive section and the six program sections:

- Enforcement
- Field Operations
- Hazardous Waste
- Radiological Protection
- Solid Waste
- Sustainability

We share our administrative functions with the Oil, Gas, and Minerals Division, where those staff report

# Overarching Activities

- Continuing efforts to digitize our paper files.
- Working to understand and better incorporate Environmental Justice related activities into our programs
- Cross program effort kicking off Monday to update our Waste Data Systems database and connect it to our electronic data management system to ultimately allow public access to all of our non-confidential files electronically



# Hazardous Waste Program - 2022

- Received final authorization for the August 3, 2020, Part 111 rules
- Continued to assist EPA on Michigan RACER projects, BASF Wyandotte, and other sites with PFAS investigations.
- Site inspections. Assessed compliance through 62 inspections at TSDFs, 118 inspections at large quality generators, and 424 inspections at other generators.
- Environmental Justice. Continued to improve upon screening facilities for EJ concerns and the notification process for license applications and remediation plans.
- Waste Analysis Plans. Continued to evaluate WAPs for consistency with national EPA guidance.

# Hazardous Waste Program - 2023

- Rule revisions to address recalled airbags, pharmaceuticals, update ignitability standards, alternatives for used leather gloves, clarify P075 listing definition, manifest entry options for commingled waste.
- Wayne Disposal Inc. Only commercial hazardous waste and PCB landfill in Michigan. Continue reviews for landfill upgrades and licensing.
- RACER Buick City, Flint. Continue oversight efforts to support site remediation and redevelopment.
- Corrective Action Memorandum of Understanding (MOU). Continue revisions to MOU with EPA to define corrective action program elements.
- MI Healthy Climate Plan. Work continues to incorporate Plan elements into HW related activity.

# Solid Waste Land Application



Working with Water Resources Division and the Dept. of Agriculture and Rural Development to more appropriately regulate some materials.

Evaluation of PFAS impacted material requests without the benefit of soil/sediment criteria as guidance.

Evaluating the proper management of dredge spoils for upland placement

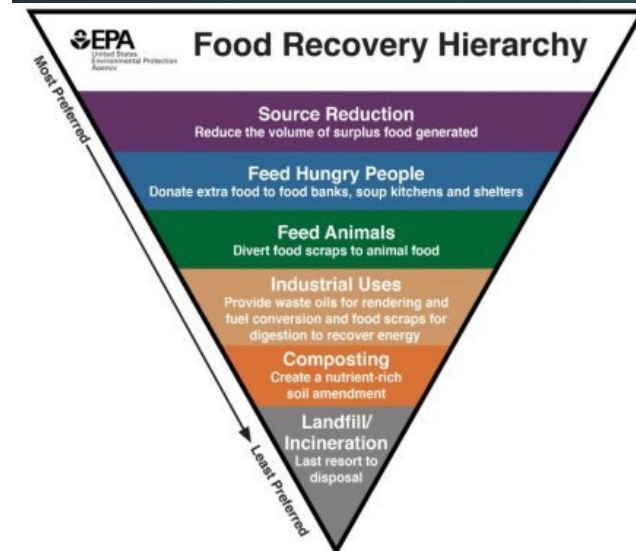
# Comprehensive Battery Management

- Solid waste staff have worked with the landfill community to develop a guidance document for dealing with lithium-ion batteries and responding to related fires.
- We are currently reviewing a draft bill for extended producer responsibility
- There is a large education and outreach effort that is also needed to help the public and relevant industries with best management practices.



# Organic Waste Management

- An “Organics Diversion Framework” is lacking in Michigan due to the low cost of landfill disposal and the lack of sufficient legislation to support the “good actors”.
- Roughly 30% of all landfill waste is consumer food/food-related organic wastes. Another ~20% is composed of organic products like paper, cardboard, wood, etc.
- Anaerobic Digestion offers the possibility of energy/natural gas generation, yet there are only a few Anaerobic Digesters in Michigan that accept non-manure organics.
- Composting is a valid solution for most organic wastes, Michigan currently lacks the necessary industry framework to account for Michigan’s waste generation. This is due to a lack of education on the values of diverting organics, and the difficulties of siting new composting facilities at the local level.





# Coal Combustion Residuals (CCR)

In addition to our continued work with US EPA Region V and headquarters on review of our request to be authorized to manage the federal CCR rules in Michigan, some other activities included the oversight of:

- DTE in Monroe is continuing their clean closure project to remove all the ash from their Bottom Ash Impoundment and are on schedule to complete ash removal in 2023.
- The BC Cobb Facility saw the completion of the removal of coal ash from their impoundments, a two-year project.
- DTE St Clair Power Plant Bottom Ash Basins are being clean closed. They anticipate being done by the end of this calendar year, with monitoring continuing in 2023.

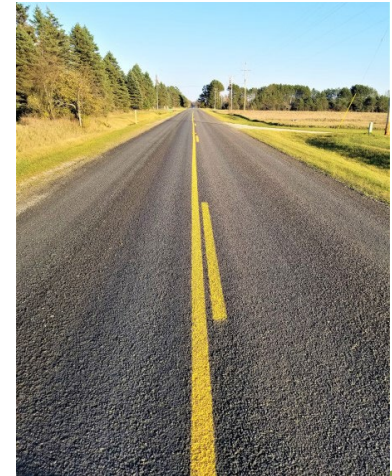


# Contact Information

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<b>Landfill Oversight and CCR:</b> Margie Ring, <a href="mailto:RingM@Michigan.gov">RingM@Michigan.gov</a> or 517-290-6125 <b>Landfill Geology:</b> Jim Arduin, <a href="mailto:ArduinJ@Michigan.gov">ArduinJ@Michigan.gov</a> or 517-614-7434	<b>State Agency Recycling:</b> Emily Freeman, <a href="mailto:FreemanE@Michign.gov">FreemanE@Michign.gov</a> or 517-256-9466
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# Scrap Tire Program – Part 169

- Michigan generates one scrap tire per resident on an annual basis or approximately 10 million scrap tires per year.
- Part 169 has been in effect since 1991 yet piles of tires continue to be cleaned up.





# Scrap Tire Grants

The application period for the 2022/2023 Scrap Tire Grants closed on October 28, 2022.

Applications received include 90 Clean Up applications (8 are private sites) for an ask of over \$1.4 million and 16 Market Development grant applications at over \$6.5 million.

Hard decisions will need to be made since the total 2023 grant budget is \$3.5 million.



# Scrap Tire Program Contact Information

Kirsten Clemens [EGLE-ScrapTire@Michigan.gov](mailto:EGLE-ScrapTire@Michigan.gov) or 517-614-7431



# Electronic Wastes

Work continues with grants to support electronic waste collection, especially in rural and underserved areas.

EGLE is evaluating Senate Bill 1173 that was developed by a group of electronic manufacturers




# Electronic Waste Program Contact Information

Electronic Waste Program Coordinator:

Steve Noble, [NobleS4@Michigan.gov](mailto:NobleS4@Michigan.gov) or 517-449-6153





# Radon Education and Outreach Program

**RADON**

is the second leading cause of  
lung cancer in the United States.

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**EGL** 800-RADONGAS (800-723-6642) • [Michigan.gov/radon](https://Michigan.gov/radon)

The Radon program will be conducting a voluntary audit of mitigation systems installed within the last 5 years. The audit is to identify deficiencies with the mitigation system standards “Soil Gas Mitigation Standards for Existing Homes” (<https://standards.aarst.org/SGM-SF-2017/index.html#zoom=z>).







# Proactive Radon Control Effort

The radon program convened a group of stakeholders to develop a position paper to promote the adoption of Radon Resistant New Construction (RRNC) techniques statewide.

Currently RRNC is only required in select counties in Michigan. LARA Bureau Construction Codes is in the process of adopting new statewide building codes. The position paper was provided as part of the public comment on the rulemaking.

Background on RRNC is here:

<https://www.michigan.gov/egle/about/organization/materials-management/indoor-radon/radon-resistant-new-construction>

# Radon Program Contact Information

Radon Program Coordinator:

Les Smith, [SmithL9@Michigan.gov](mailto:SmithL9@Michigan.gov) or 517-388-6913

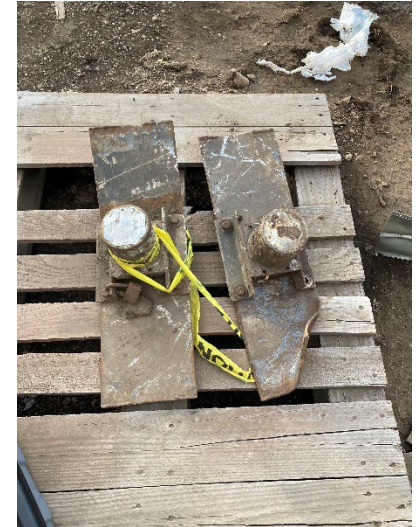
EGLE Radon Website: [Michigan.gov/radon](https://Michigan.gov/radon)

# Radioactive Materials (RAM)

The RAM program responded to a scrap yard radiation alarm at a Detroit facility. The source of the alarm was an industrial process gauge containing cesium-137. Over the course of several months 30 gauges were found with >1000 millicuries of radioactivity. The sources originated the Detroit Renewable Power waste incinerator. The sources were ultimately sent for proper disposal at a radioactive waste disposal site.



The RAM program identified a TENORM contaminated pipe yard near Mount Pleasant. Follow up surveys are planned for this month and will include mapping with the new drone system. Staff are working the site owner to establish a cleanup plan.





# Radioactive Drones?



# RAM Program Contact Information

Radioactive Materials Unit Supervisor

Jay Paquette, [PaquetteJ3@Michigan.gov](mailto:PaquetteJ3@Michigan.gov) or 517-243-7197

EGLE Radiological Materials Website:

<https://www.michigan.gov/egle/about/organization/materials-management/radiological/material>



# Energy and Sustainability Program Potential Grant Opportunities

Most of you are probably aware that there are significant funding opportunities through some recent federal budget bills

The MMD will be managing some of the grant programs directly and partnering with other departments and agencies to support their grant efforts



## Energy Related Formula Funding for Michigan Under the Infrastructure Investment and Jobs Act (also known as the Bipartisan Infrastructure Legislation) and the Inflation Reduction Act (HR 5376)

ESTIMATED FOR MICHIGAN* AND ACTUAL AMOUNT	PROGRAM	DESCRIPTION
\$11,368,420	State Energy Program (BIL)	The Michigan State Energy Office is expected to receive SEP funds for EERE programs. EGLE/MEO will deploy funds to promote healthy communities, economic growth, and environmental sustainability through energy efficiency and renewable energy by offering a variety of programs to catalyze growth and jumpstart Michigan entities to reach their own energy goals through its Catalyst Communities Program.
\$3,153,089*	Energy Efficiency Revolving Loan Fund Grant Program	The Michigan State Energy Office is expected to receive RFL funds. The exact allocation to be issued by DOE. Additional funds will be available to 15 states with the highest per capita energy related emissions or commercial/residential energy consumption as determined by DOE. EGLE/MEO will deploy funds to advance EERE in the commercial building sector.
\$3,932,791*	Energy Efficiency and Conservation Block Grant Program	Amount the Michigan State Energy Office (MEO) is expected to receive via formula EECBG funds. Communities in Michigan will be eligible for additional EECBG funding. Exact allocation to be issued by DOE after bill passage. MEO intends to utilize these funds to advance its Catalyst Communities work.
190,048,569	Weatherization Assistance Program	Amount Michigan is expected to receive. Exact allocation to be issued by DOE. These funds will be administered by DHHS.
\$110,000,000	National Electric Vehicle Formula Program.	Formula funds to State DOTs over five years to build an EV charging infrastructure along date alternative fuel corridors. MDOT in collaboration with EGLE/MEO, LEO, MPSC, and OFME will deploy funds in accordance with NEVI requirements through Charge Up Michigan.



## Energy Related Formula Funding for Michigan Under the Infrastructure Investment and Jobs Act (also known as the Bipartisan Infrastructure Legislation) and the Inflation Reduction Act (HR 5376)

ESTIMATED FOR MICHIGAN* AND ACTUAL AMOUNT	PROGRAM	DESCRIPTION
\$7,485,575	Preventing Outages and Enhancing the Reliability of the Grid (Section 40101d)	Allocation to states under the U.S. Department of Energy's Preventing Outages and Enhancing the Resilience of the Electric Grid Formula Grant Program, under Section 40101(d) Infrastructure Investment and Jobs Act (IIJA), also known as the Bipartisan Infrastructure Law (BIL). EGLE/MEO will distribute and manage the program in collaboration with the MPSC.
\$2,000,000	Energy Auditor Training Grant Program	Competitive program for State Energy Offices Only for energy auditor training. EGLE will administer the program in collaboration with DHHS.
\$131,515,354*	Home Energy Performance-Based, Whole-Home Rebates	Amount the Michigan State Energy Office is expected to receive via formula. The funds are being provided to operate both a "modeled performance program" and a "measured performance home rebate" (Section 50121(b)). The HOMES rebate goes to homeowners and aggregators for whole-house energy saving, which must be completed by 9/30/31 (Section 50121(c)). The amount of the rebates is specified in the statute.
\$130,750,730*	High-Efficiency Electric Home Rebate Program (Section 50122)	Amount the Michigan State Energy Office is expected to receive via formula. Section 50122 is the statutory provision governing this program, which is targeted to electricity programs and low or moderate-income households (total income less than 150% of the area median income) (Section 50122(d)).
\$330,000,000	Building Energy Codes	Section 50131 provides \$1billion for support of the updated building energy codes. \$330M of this amount is directed to states and local governments to support adoption of codes that meet or exceed the 2021 IECC for residential buildings and ANSI/ASHRAE/IES Standards 90.1-2019 for commercial buildings.

## Energy Related Formula Funding for Michigan Under the Infrastructure Investment and Jobs Act (also known as the Bipartisan Infrastructure Legislation) and the Inflation Reduction Act (HR 5376)

ESTIMATED FOR MICHIGAN* AND ACTUAL AMOUNT	PROGRAM	DESCRIPTION
\$7,000,000,000	EPA Greenhouse Gas Reduction Fund	Section 60103 (adding a new Section 134 to the Clean Air Act) to: provide grants, loans, or other forms of financial assistance, as well as technical assistance, to enable low-income and disadvantaged communities to deploy or benefit from zero-emission technologies, including distributed technologies on residential rooftops, and to carry out other greenhouse gases emissions reduction activities, etc.
\$12M	Advance Industrial Facilities Deployment Program	\$5.8 billion is provided under Section 50161 to provide a 50% cost share for the development of a GHG emissions reduction program for industrial facilities, defined as domestic, non-Federal, nonpower industrial or manufacturing facility in energy intensive industries. This program will be operated by the new Office of Clean Energy Demonstration.
\$250M	Climate Pollution Reductions Grant	Planning grants for greenhouse gas air pollution reduction and for implementation of those plan is provided under Section 60114 (adding Section 137 to the Clean Air Act).
\$75,000,000	Reduce, Reuse, Recycling Education and Outreach Grants	For grants focusing on improving material recycling, recovery, management, and reduction. To improve the effectiveness of residential and community recycling programs through public education and outreach. Funded projects should inform the public about residential or community recycling programs, provide information about the recycled materials that are accepted increase collection rates, etc..

# EGLE Grants and Loans Information

MMD's Energy and Recycling Grants are managed by our Sustainability Section.

Sustainability Section Chief Julie Staveland is the contact for these grants.

[StavelandJ@MiMichigan.gov](mailto:StavelandJ@MiMichigan.gov) or 517-420-8544

To learn more about all the grant and loan opportunities available through EGLE:

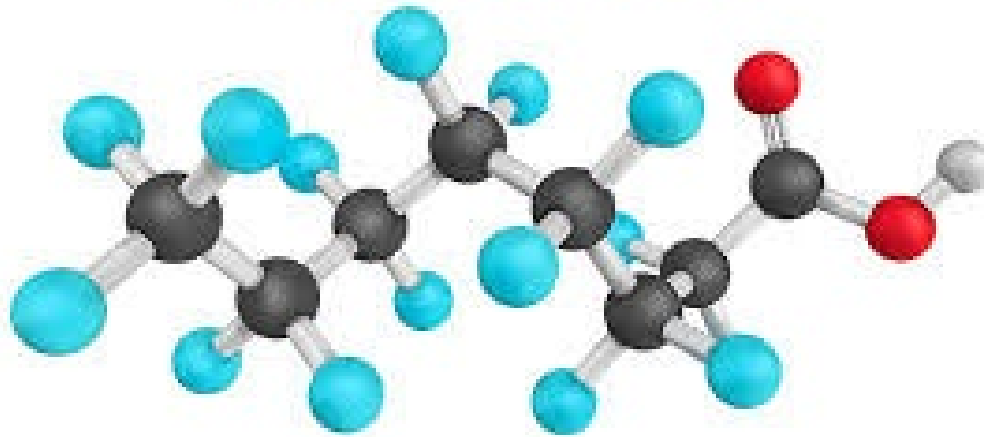
[https://www.michigan.gov/egle/0,9429,7-135-3307\\_3515---,00.html](https://www.michigan.gov/egle/0,9429,7-135-3307_3515---,00.html)

(you can also use a search engine for EGLE Grants and Loans)

The site also has an interactive dashboard where you can find out about grants and loans that have been awarded. It is searchable by grant or award program, awardee, fiscal year, Senate or House District

# A Not so Emerging Issue

## PFAS



MMD continues to work with regulated facilities,  
MPART and communities relative to sites with  
PFAS contamination

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