



CIRCULAR INDIANA: ORGANICS AND CLIMATE

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A LITTLE ABOUT RECYCLING & ORGANICS IN MICHIGAN

Michigan has a long history of recycling And environmental protection

11,000 lakes and 3,288 miles of great lakes shoreline. And manufacturing.

And creating the recycling experts of tomorrow.

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) works to create the conditions where recycling and organics markets can thrive.

We work to deploy about \$15M/year directly to businesses and communities to grow the recycling system

We work closely with the Michigan Recycling Coalition





- Increase Access to and Participation in recycling opportunities
- Inform residents and businesses on How, Where, and Why to Recycle
- Taking an **Equitable and Inclusive** approach to expanding recycling in diverse communities.
- **Training** the recycling professionals of tomorrow
- Improve the **Quality** of recycled materials
- Grow **Markets** for recycled materials
- Expand recycling Infrastructure (to grow Michigan's supply chain)
- Form **Partnerships** to finance recycling activities
- Recycling as a Climate Solution to **Decarbonization**





COMPLETING THE PICTURE

Tackling the Overlooked Emissions

45%

of Global GHG Emissions can be attributed to the production of materials, Products, and Food, as well as the management of land







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BEST PRACTICES FRAMEWORK TO ACHIEVE **45% RECOVERY**





ECONOMIC BENEFITS OF REACHING 45% IN MICHIGAN

If Michigan's recycling rate tripled, the recycling, reuse, and recovery industry would total...







A multi-track idea incubator that provides technical support and subject matter expert mentoring to move ideas toward implementation.



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NEXTCYCLE MICHIGAN ACCELERATING IMPACT 238

Initiatives Tracked across Michigan accelerating recycling and the circular economy

\$692M

Of total investments captured for completed and underway projects in the State.







ACCELERATOR TRACKS

13 COHORTS LAUNCHED 341 APPLICATIONS SUBMITTED **107** TEAMS SELECTED **\$21.3M** TRACKED INVESTMENT IN TEAMS





EGLE





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KEY CHALLENGE TRACK SUPPORT



CURRENT INFRASTRUCTURE 23%

MI Current Recycling Rate

366,232 tons/yr Current MRF Throughput:

1,892,257 tons/yr Current Organics Processing (93% yard waste)

TONS OF MSW DISPOSED IN MICHIGAN





MSW DISPOSAL STREAM: 8 MILLION TONS

ORGANICS & COMPOSTABLES





ORGANIC PROCESSING

367,197 tons/yr Current Organics Processing (93% yard waste)

1,116,492 tons/yr

Additional Organics Recovery Potential (split between residential & commercial sources)



Yard Waste Processing Good



Food Waste Processing Needs Improvement



Governor Whitmer

"Under the MI Healthy Climate Plan...Michigan will become an incubator for economic innovation that will create good-paying jobs for hard-working Michiganders across the state in the clean energy, climate technology and <u>recycling</u> sectors."



Drive Clean Innovation in Industry: Encourage clean innovation hubs where private enterprises strategically co-locate and collaborate to develop and deploy new, cleaner manufacturing technologies and conduct research and development to reduce emissions from hard to decarbonize industries. Triple Michigan's recycling rate to 45 percent and cut food waste in half by 2030.



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MICHIGAN CLIMATE POTENTIAL

7M 300K 700K 760K

Additional mTCO₂e tons avoided at 45% goal Additional mTCO₂e tons avoided at 45% goal for organics Additional mTCO₂e tons avoided at 14% food waste reduction GHG equivalent to # of household energy consumption





GHG EMISSIONS FROM



GREENHOUSE GAS EMISSIONS AVOIDED BY



760,731 HOUSEHOLDS' ANNUAL ENERGY CONSUMPTION

FOOD WASTE ROADMAP

https://misbf.org/mi chigan-food-wastepolicy-road-map/



NEXTCYCLE MICHIGAN EQUITY POTENTIAL



New minority business enterprises and associated jobs Community wealth building with new investments in underserved communities



Equitable and fair access to economic opportunities









GREATEST POTENTIAL FOR BRIDGING GAPS



- More organic processing in Northern MI and UP
- More facilities handling food waste statewide
- Services for organic diversion connecting generators to processors
- End markets

Existing Organic Waste infrastructure in MI



WHAT DOES **SUCCESS** LOOK LIKE?



Impact to communities





Attracting investment & talent







A growing and robust Circular Economy

