



HOUSE of REPRESENTATIVES

STATE OF MICHIGAN

Appropriations Requests for Legislatively Directed Spending Items

1. The sponsoring representative's first name:
Timothy
2. The sponsoring representative's last name:
Beson
3. The cosponsoring representatives' names. All cosponsors must be listed. If none, please type 'n/a.' A signed letter from the sponsor approving the co-sponsorship and a signed letter from the member wishing to co-sponsor are required. Attach letters at question #9 below.
N/A
4. Name of the entity that the spending item is intended for:
Public Wastewater Systems Statewide
5. Physical address of the entity that the spending item is intended for:
TBD
6. If there is not a specific recipient, the intended location of the project or activity:
N/A
7. Name of the representative and the district number where the legislatively directed spending item is located:
Statewide
8. Purpose of the legislatively directed spending item. Please include how it provides a public benefit and why it is an appropriate use of taxpayer funding. Please also demonstrate that the item does not violate Article IV, S 30 of the Michigan Constitution.
The funding is for a biosolids regional management grant program to support the integration of hydrothermal carbonization or hydrothermal liquefaction technologies at regional public wastewater system host sites. The host sites will manage biosolids on site and accept biosolids or other organic wastes from public or private entities in the region utilizing HTC and HTL technologies to remove contaminants such as PFAS, microplastics and pharmaceuticals, and creating valuable biproduct with beneficial reuses.

9. Attach documents here if needed:

Attachments added to the end of this file.

10. The amount of state funding requested for the legislatively directed spending item.

30000000

11. Has the legislatively directed spending item previously received any of the following types of funding? Check all that apply.

["None"]

12. Please select one of the following groups that describes the entity requesting the legislatively directed spending item:

Local unit government

13. For a non-profit organization, has the organization been operating within Michigan for the preceding 36 months?

Not applicable

14. For a non-profit organization, has the entity had a physical office within Michigan for the preceding 12 months?

Not applicable

15. For a non-profit organization, does the organization have a board of directors?

Not applicable

16. For a non-profit organization, list all the active members on the organization's board of directors and any other officers. If this question is not applicable, please type 'n/a.'

N/A

17. "I certify that neither the sponsoring representative nor the sponsoring representative's staff or immediate family has a direct or indirect pecuniary interest in the legislatively directed spending item."

Yes, this is correct

18. Anticipated start and end dates for the legislatively directed spending item:

FY2026

19. "I hereby certify that all information provided in this request is true and accurate."

Yes

CLEANING UP MICHIGAN'S BIOSOLID WASTE

HYDROTHERMAL CARBONIZATION (HTC) TECHNOLOGY SOLVES MICHIGAN'S WASTEWATER BIOSOLIDS CHALLENGE

THE CHALLENGE

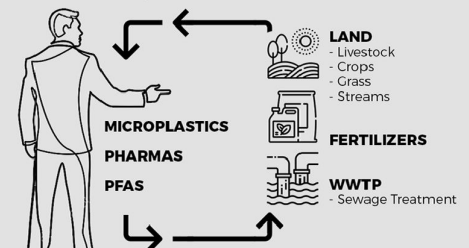
Michigan's wastewater treatment plants face a mounting **biosolids management challenge**:

- Traditional land application is increasingly restricted due to concerns for PFAS and microplastics within biosolid waste.
- Landfill disposal costs are skyrocketing as space becomes more scarce. Michigan landfills have only 26 years disposal capacity left, at current use levels. (Source: EGLE)
- Treatment plants urgently need a cost-effective solution that addresses both the financial challenges and the environmental concerns.

CHEMS / POLLUTANTS

A HARMFUL & VICIOUS CYCLE

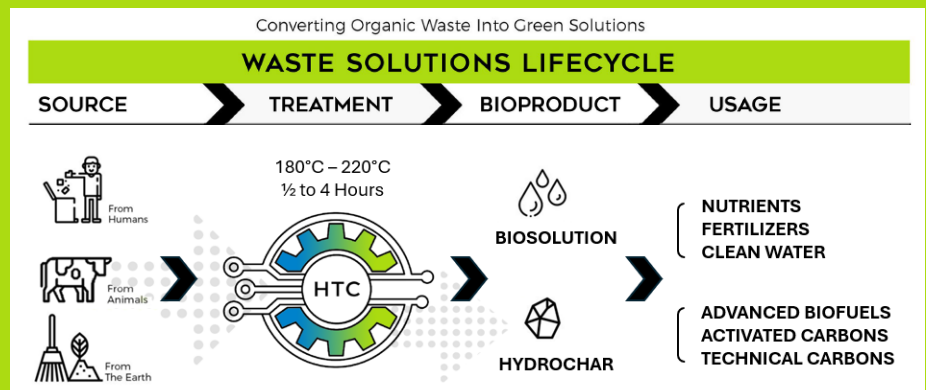
These are present in our land, food and bodies



THE SOLUTION | HOW IT WORKS

The SoMax HTC technology efficiently **transforms wastewater biosolids into valuable resources** for Michigan's treatment plants.

See the back page for additional information >>



BENEFITS OF REGIONAL COMMERCIAL ADOPTION IN MICHIGAN

Financial Benefits

- Significantly reduces or eliminates biosolids disposal costs
- Creates new revenue streams through Hydrochar and Biosolution products (building materials, energy production)
- Delivers annual savings to local municipalities

Environmental Benefits

- Reduces critical contaminants including microplastics, pharmaceuticals, and PFAS
- Extends landfill capacity by diverting biosolids
- Creates environmentally-safe products suitable for land application
- Produces carbon-neutral materials
- Regional facilities can drive greater environmental impact



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CLEANING UP MICHIGAN'S BIOSOLID WASTE

HYDROTHERMAL CARBONIZATION (HTC) TECHNOLOGY SOLVES MICHIGAN'S WASTEWATER BIOSOLIDS CHALLENGE

THE HTC SOLUTION | HOW IT WORKS

SoMax HTC technology efficiently **transforms wastewater biosolids into valuable resources** for Michigan's treatment plants. The process uses a combination of water, pressure, and temperature to convert biosolids into two valuable products:

- **Biosolution** | Nutrient rich organic fertilizer for environmentally-friendly land application. It can also boost digester biogas energy production by up to 30%.
- **Hydrochar** | Carbon-neutral solid material that can be used as a solid biofuel or sequester carbon in building materials like concrete or shingle products.

Implementation | GRP | WEGMAN, as a "Preferred Applications Partner" of SoMax, brings proven expertise in **constructing and integrating HTC facilities into existing treatment plants**.



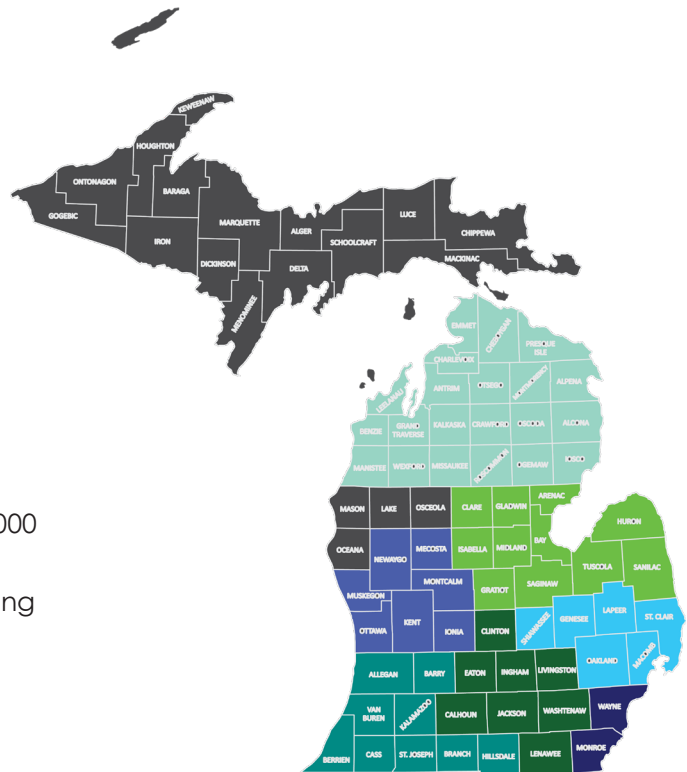
U.S. DEPARTMENT OF
ENERGY

The SoMax HTC system received the prestigious Department of Energy 2021 Water Resource Recovery Prize.

READY-TO-DEPLOY SOLUTIONS FOR MICHIGAN TO LEAD THE NATION

Fund HTC Installations | Enable Clean and Cost Effective Biosolids Processing

- Installations of SoMax HTC treatment trains at Michigan wastewater treatment plants, selected based on feasibility and cost-benefit analysis.
- Investment per HTC treatment train: \$8-10 million. Each HTC treatment train can process 15,000-20,000 wet tons of biosolids per year.
- Ready for immediate implementation upon funding approval.
- Potential for SoMax HTC treatment trains to be manufactured in Michigan.



Potential Regions for HTC Installation
to Maximize Impact for Michigan.

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