

Energy Waste Reduction Low Income Workgroup

March 6, 2025



Holistic Energy Planning and Energy Waste Reduction Projects

CO-CREATING WITH NATIVE NATION PARTNERS IN MICHIGAN





Slipstream accelerates
energy solutions.
For everyone.



Deb Dynako



Laura Manthe



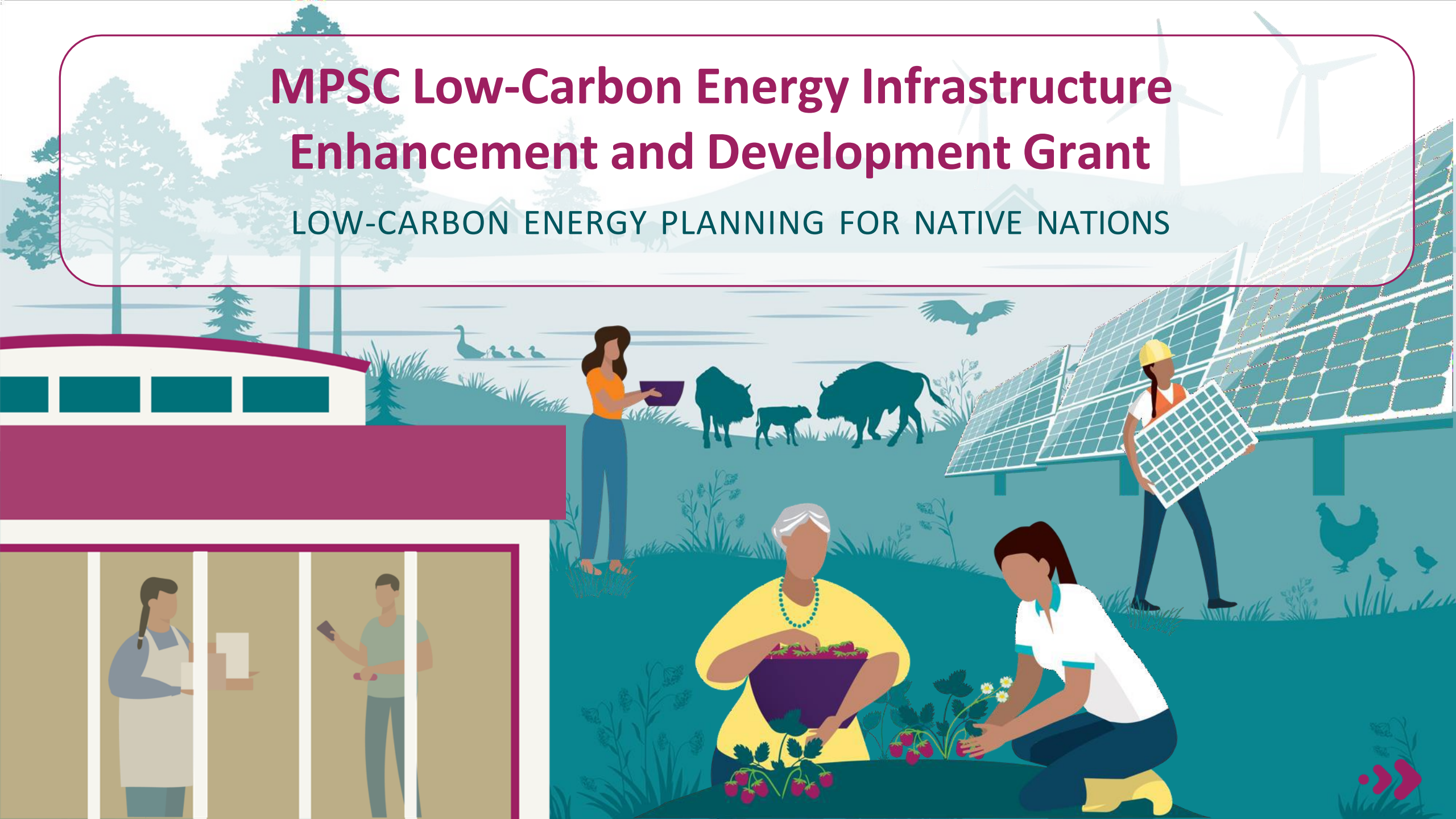
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MPSC Low-Carbon Energy Infrastructure Enhancement and Development Grant

LOW-CARBON ENERGY PLANNING FOR NATIVE NATIONS



Native Nation Partners



Sault Ste. Marie Tribe
of Chippewa Indians



Lac Vieux Desert Band of
Lake Superior Chippewa Indians



Pokagon Band
of Potawatomi Indians

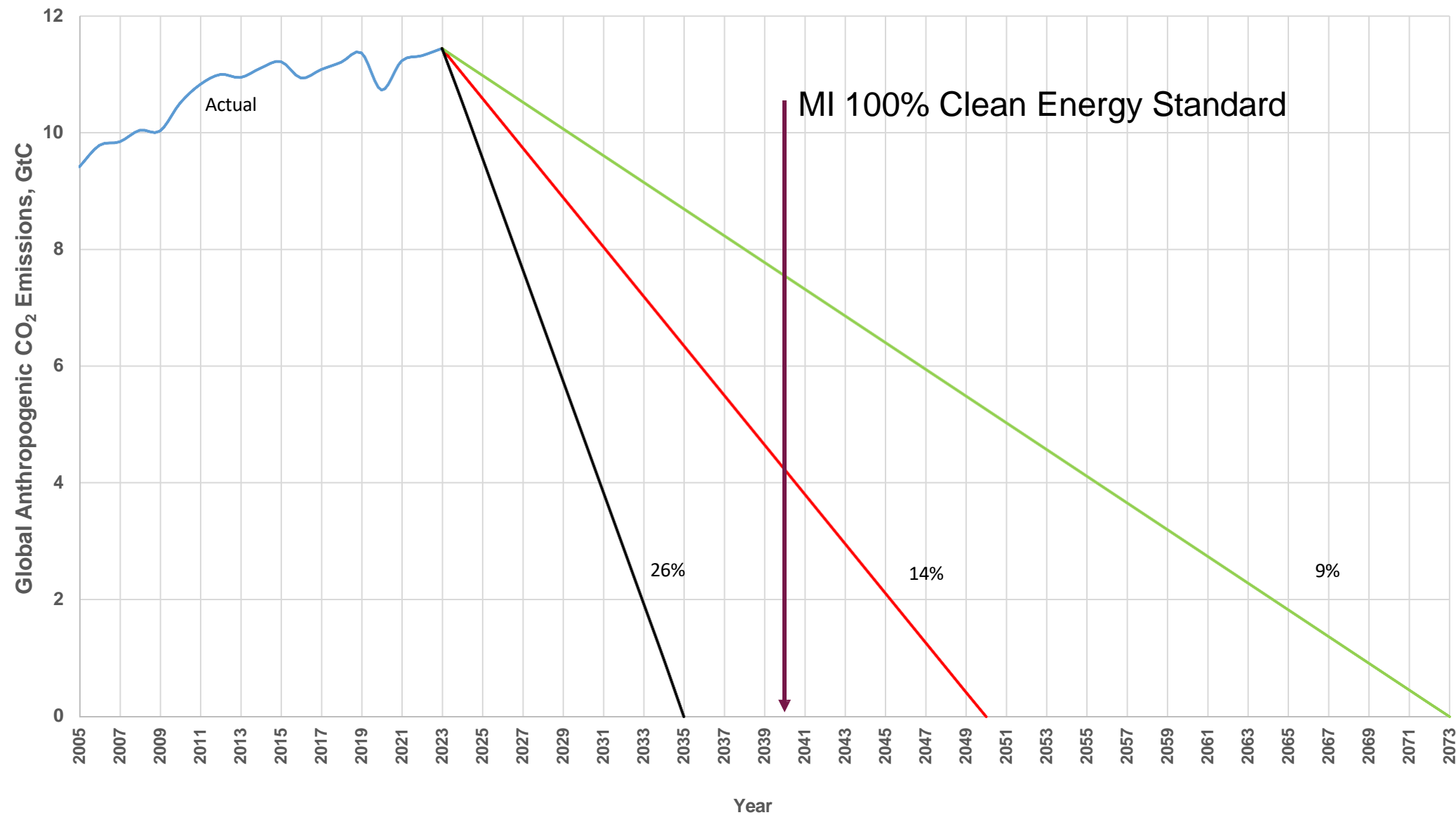
Funded By



Project Team

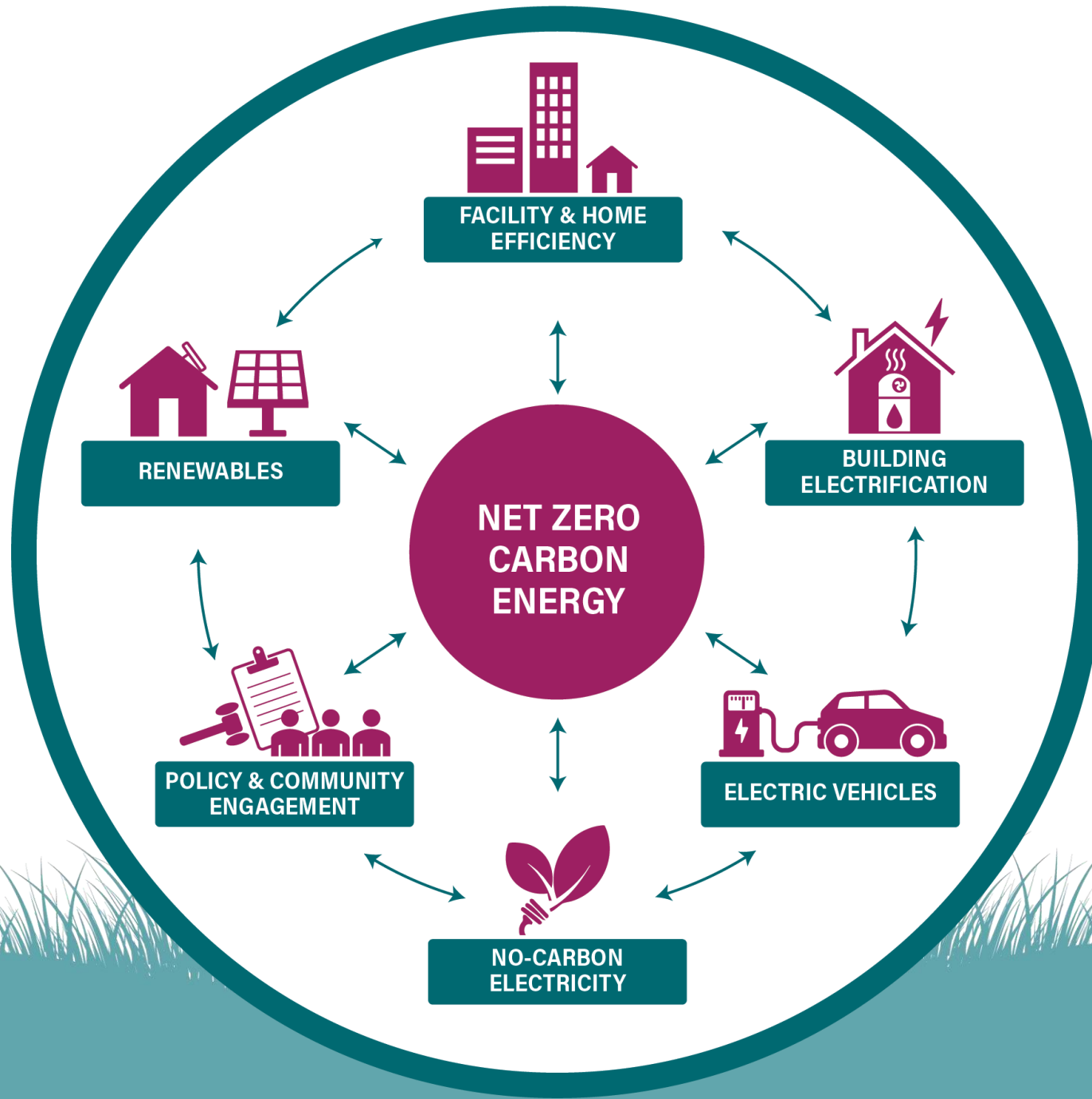


Goal – Zero Carbon Emissions



A holistic approach to Indigenous goals





STAGE 3: 2035-2050

14 100% all-electric homes.

15 100% all-electric commercial facilities.

16 Fully decarbonize vehicle fleet and equipment.

17 Procure carbon-free electricity.

**NET ZERO
CARBON
ENERGY**

STAGE 2: 2030-2034

13 Scale EV adoption.

12 Scale solar.

11 Scale home weatherization and heat pump installations.

10 Increase building retrofits.

6 Implement lighting replacement program.

7 Implement building tune-up program.

8 Conduct demonstration projects for weatherization, heat pumps, EVs, and solar.

9 Economic development training for building operation, solar, EVs, heat pumps, weatherization.

5 Set standards for equipment and new building procurement.

4 Start community energy committee.

3 Regularly track energy usage.

STAGE 1: 2025-2029

1 Set energy goals. Create energy policy.

2 Hire energy manager.



Net Zero Carbon Planning for Three Native Nations in Michigan: Key Lessons

Lesson 1: Native Nations have unique viewpoints regarding their energy use, Traditional Ecological Knowledge, and vision for their energy future.

Lesson 2: While there are some commonalities in energy infrastructure needs, Native Nations have different approaches in achieving their goals. Leadership changes and capacity constraints can slow progress.

Lesson 3: There is a need to develop improved collaboration between Michigan utilities, EWR programs, and Native Nations.



A Holistic Approach to Energy Planning and Programming with Native Nations in Michigan

FUNDED BY:

DTE Energy | SEMCO Energy | Upper Peninsula Power Company



Our Research Design

Purpose

- Cultivate a greater understanding of energy needs and barriers for Native Nation Governments and their Members within utility service areas

Output

- Develop recommendations aimed at increasing energy waste reduction program participation as well as improving overall utility-Nation relations (end of 2025)

General Approach

- Structured engagement with utility program managers, implementation contractors, and Native Nation officials and citizens



Purpose

- Cultivate a greater understanding of energy needs and barriers for Native Nation Governments and their Members within utility service areas

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General Approach

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The Story So Far

Lesson 1: The energy burden on rate-paying Indigenous Peoples in Michigan is high.

Lesson 2: Native communities are, by and large, unaware of utility energy waste reduction programs.

Lesson 3: Utilities have had some success in outreach to Nations. Starts and stops due to changing leadership and capacity issues within each Nation.



Discussion and Questions





ELEVATE

Decarbonization in Tribal Housing

3.6.2025



Piwa (Hello)



Brittany Turner

- Associate Director of Tribal Programs – Elevate
- Haliwa-Saponi Tribe
- You can find me at a pow-wow with my mini-me





Elevate's Mission

Elevate seeks to create a just and equitable world in which everyone has clean and affordable heat, cooling, power, and water in their homes and communities.

Agenda

Approach

Project Examples

Stay in Touch

Questions

Approach



1. Complete a Housing Portfolio Assessment and Plan

Step 1:
Aggregate Portfolio Data (Property Characteristics,
Utility & Asset Management Data)

Step 2:
Analyze Trends and Map
Properties

Step 3:
Develop an Energy Action & Funding
Plan to Inform Upgrades

Step 4:
Pilot Implementation of
Plan

1. Complete Portfolio
Assessment & Planning

2. Implement Project
Construction & Operations +
Maintenance

3. Demonstrate a One Stop
Shop Approach –Efficiency
Navigator

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF
1																																
2		Building Info										Heating & Cooling										Lighting										
3	Building ID	Parent Name	Child Name	Post 15 Year	RD SIS	NOMI	Tenant Space	Heating Fuel	Heating Equipment	Tenant Space Cooling Equipment	On site observations (Mechanical equipment)	Tenant DW Typ	Tenant Fan Typ	Indoor Lighting	Outdoor Lighting																	
106	WB003	Highland/Rhine Haus (Scattered)	Highland Estates II	no	no	no	Gas	Boiler	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Fluorescent; LED	Fluorescent																	
107	WB004	Highland/Rhine Haus (Scattered)	Highland Estates II	no	no	no	Gas	Boiler	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Fluorescent; LED	Fluorescent																	
108	WB005	Highland/Rhine Haus (Scattered)	Rhine Haus	no	no	no	Gas	Boiler	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Fluorescent; LED	Fluorescent																	
109	WB006	Iowa County Housing (Scattered)	Dodgeville	no	no	no	Electric	Baseboard	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
110	WB007	Iowa County Housing (Scattered)	Homestead Village	no	no	no	Electric	Baseboard	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
111	WB008	Iowa County Housing (Scattered)	Ridgeview	no	no	no	Electric	Baseboard	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
112	WB009	Iowa County Housing (Scattered)	Village Green	no	no	no	Electric	Baseboard	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
113	WB010	WW East (Scattered)	Lakeview Apartments	no	yes	no	Electric	Baseboard	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
114	WB011	WW East (Scattered)	Meadow View - Lofe	no	yes	no	Electric	Baseboard	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
115	WB012	WW West (Scattered)	Cherrywood	no	yes	no	Electric	Baseboard	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
116	WB013	WW West (Scattered)	Forest Apartments	no	yes	no	Gas	Boiler	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
117	WB014	WW West (Scattered)	Pines Apartments	no	yes	no	Electric	Baseboard	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
118	WB015	Jackson County (Scattered)	Center Circle	no	no	no	Electric	Baseboard	Tenant provided	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
119	WB016	Jackson County (Scattered)	Willbide	no	no	no	Electric	Baseboard	Tenant provided	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
120	WB017	Jackson County (Scattered)	Meadow View	no	no	no	Electric	Baseboard	Tenant provided	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
121	WB018	Jackson County (Scattered)	River Grove	no	no	no	Electric	Baseboard	None provided	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
122	WB019	Jackson County (Scattered)	Village Center	no	no	no	Electric	Baseboard	Tenant provided	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
123	WB020	Jackson County (Scattered)	West Indies	no	no	no	Electric	Baseboard	Tenant provided	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
124	WB021	Janesville Commons/Neenah Court (Scattered)	Janesville Commons	no	no	no	Gas	Furnace	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
125	WB022	Janesville Commons/Neenah Court (Scattered)	Janesville Commons	no	no	no	Gas	Furnace	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
126	WB023	Janesville Commons/Neenah Court (Scattered)	Neenah Court	no	no	no	Gas	Furnace	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
127	WB024	Janesville Commons/Neenah Court (Scattered)	Neenah Court	no	no	no	Gas	Furnace	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
128	WB025	Lakeland Apartments (Scattered)	Lake Cornus Manor	no	no	no	Gas	Furnace	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
129	WB026	Lakeland Apartments (Scattered)	Turtle Creek Family Apartments	no	no	no	Gas	Furnace	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
130	WB027	Lakeland Apartments (Scattered)	Turtle Creek Family Apartments	no	no	no	Gas	Furnace	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	
131	WB028	Lakeland Apartments (Scattered)	Turtle Creek Family Apartments	no	no	no	Gas	Furnace	WHPC provided sleeve	Unknown	Unknown	Unknown	Unknown	Incandescent	Incandescent																	

Building Type	Number of Buildings	Percent Buildings	Number of Residential Units	Percent Residential Units
Single-family	40	95%	40	87%
Multifamily, 2-4 units	2	5%	6	13%
Total	42	100%	46	100%

2. Implement Project Construction & Operations + Maintenance

Energy Assessment (efficiency, H&S, IAQ, decarbonization)

System Design, Energy Modeling, Energy Burden Modeling, IAQ Monitoring

Contractor Scopes of Work Development

Contractor Walk Throughs and Refining System Design

Construction Management + QA/QC

1. Complete Portfolio Assessment & Planning

2. Implement Project Construction & Operations + Maintenance

3. Demonstrate a One Stop Shop Approach –Efficiency Navigator



One Stop Shop Approach

“A community focused approach that provides technical assistance and access to incentives to upgrade affordable housing and community facilities.”

1. Complete Portfolio Assessment & Planning

2. Implement Project Construction & Operations + Maintenance

3. Demonstrate a One Stop Shop Approach –Efficiency Navigator

2025 Elevate

GOALS ARE TO:

- **Build** a comprehensive package of tools to support decision-making for housing upgrades
- **Support** project financing and grants applications
- **Support** project implementation from start to finish

In Support Of....

Preserving and improving housing by incorporating clean energy, healthy building, and resiliency solutions.

Prioritizing homes in communities that are historically underserved by energy efficiency programs.

Minimizing utility cost burden on residents.

Providing a roadmap for clean energy upgrades.

PROJECT EXAMPLES



ELEVATE

GLIHA Energy Advisory Committee is a committee within GLIHA that:

- provides **insight into program design** for an efficiency and clean energy program that meets the needs of Tribal housing communities
- and to **assess the opportunities** for clean energy development and implementation.

Lac Du Flambeau, WI



10 Unit Multi-Family

Lac Vieux Desert, MI



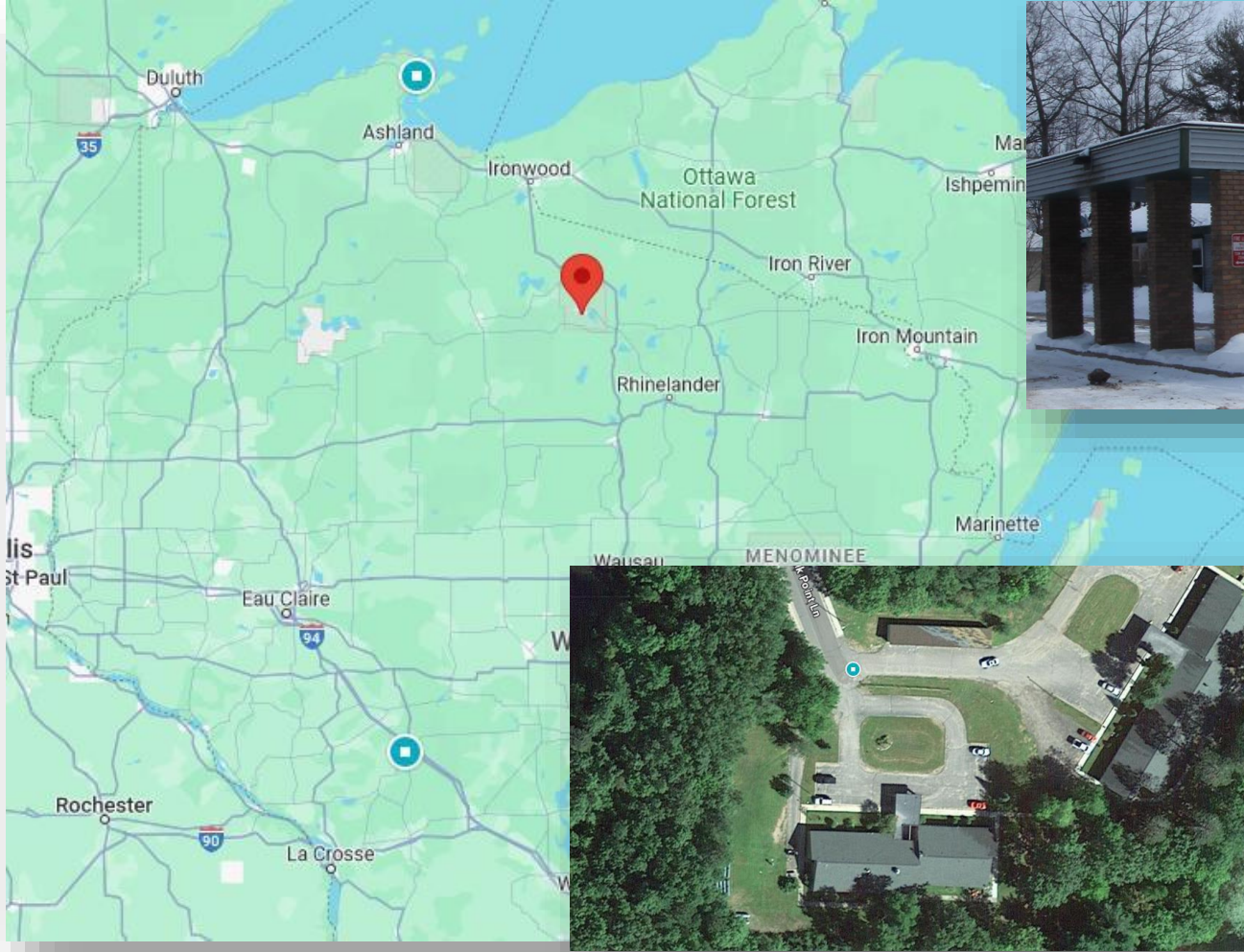
Single Family

Red Cliff, WI



Duplex

Lac Du Flambeau – Elks Point West Apartments



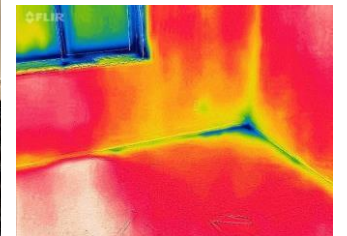
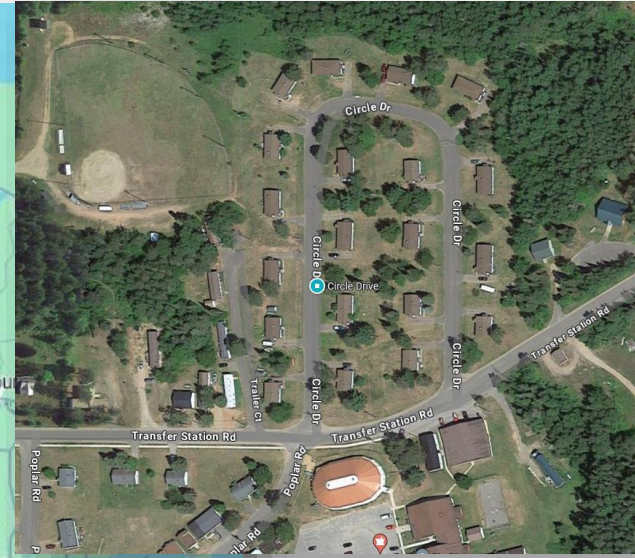
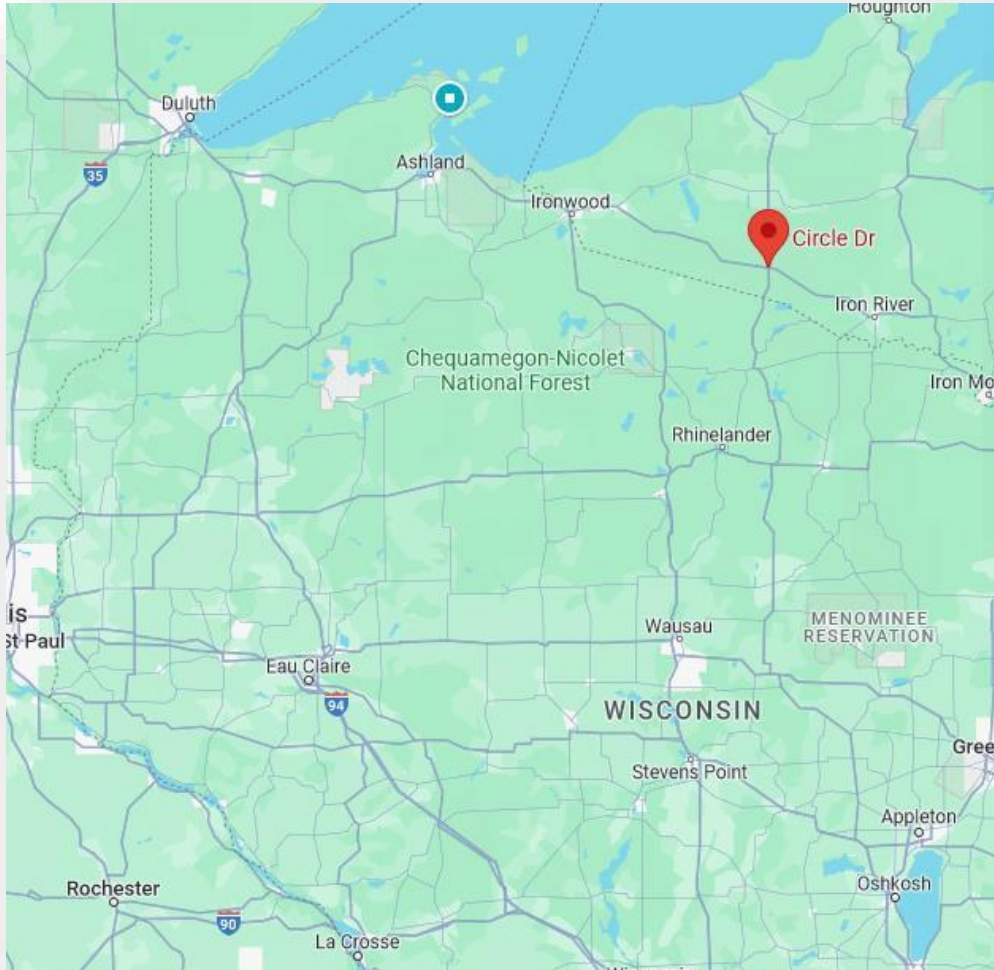
Organic Gas Chemicals (Volatile Organic Compounds, VOCs):



Lac Du Flambeau – Elks Point West Apartments



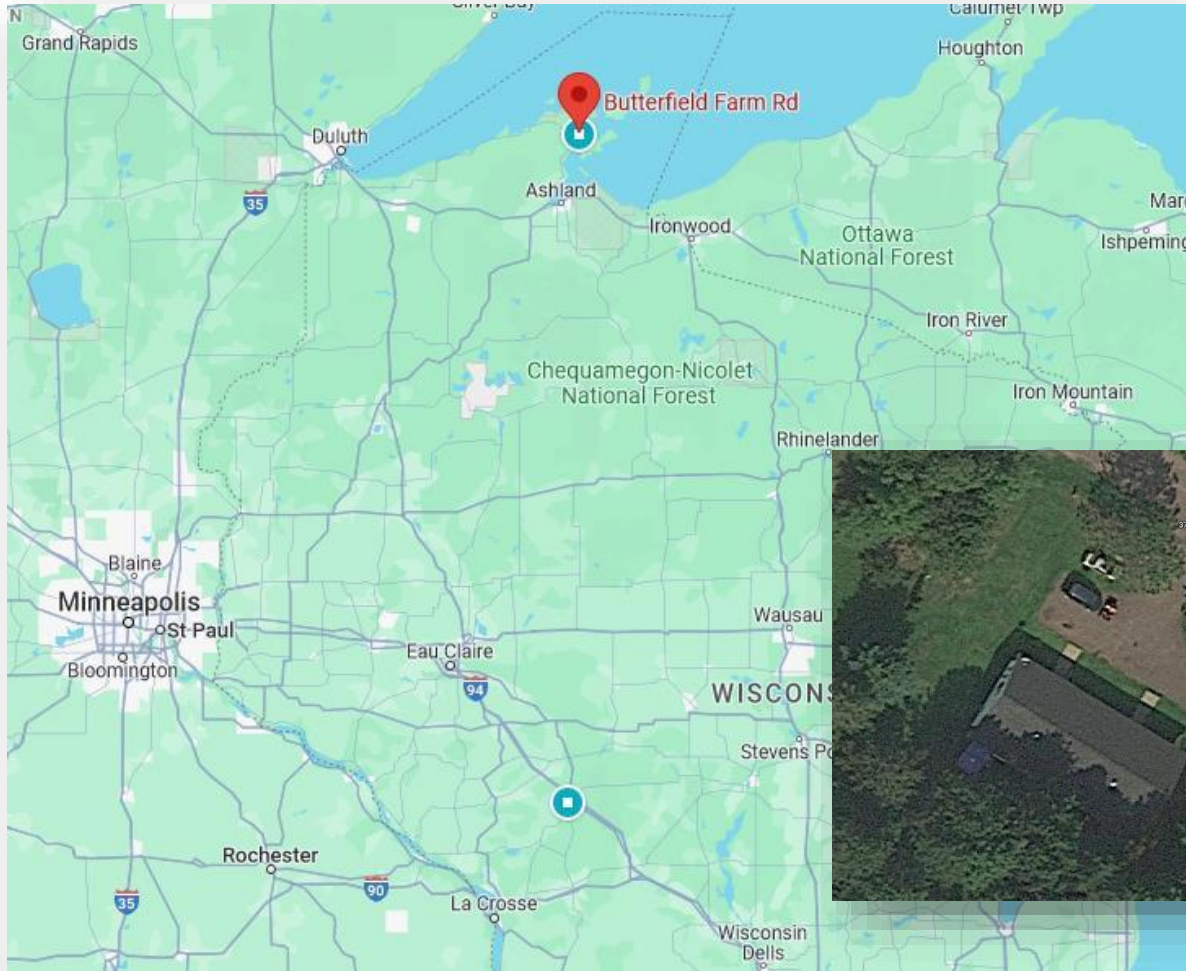
Lac Vieux Desert Tribe - Watersmeet, MI



Lac Vieux Desert Tribe – Watersmeet, MI



Red Cliff Tribe – Red Cliff, WI



Red Cliff Tribe – Red Cliff, WI



WHAT'S NEXT?

Lac Du Flambeau, WI



10 Unit Multi-Family



- Awarded funds in 2024 from WI PSC to **electrify and add solar and battery storage** to sister apartment complex.

Lac Vieux Desert, MI



Single Family



- Awarded nearly \$15 million dollars from EPA CPRG to **decarbonize 145 Tribal housing units and two Tribal businesses** over 5 years.

Red Cliff, WI



Duplex



- Are actively pursuing capital for an **Efficiency Navigator Program**.

Thank you! Stay in Touch! Questions?

Brittany Turner

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ELEVATE



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Close & Adjourn

Thank You!