EGLE Energy Services Meeting Communities Where They Are



Julie Staveland Assistant Division Director, Materials Management Division, EGLE

StavelandJ@michigan.gov



Mary Reilly

Government and Community Vitality Educator, Michigan State University Extension <u>reillym8@msu.edu</u>



Danielle Beard MGC Coordinator, Michigan Green Communities dbeard@migreencommunities.com



Madeleine Krol

Clean Energy Land Use Specialist, Graham Sustainability Institute, University of Michigan <u>krol@umich.edu</u>











What is MGC?

= %						
= ×						
— ×						

A sustainability benchmarking, networking, & technical assistance program for municipalities & counties



Accelerate environmentally sustainable actions by communities to enhance Michigan's livability & economic competitiveness in the 21st century global green economy



Benefits to Participating

- Free technical assistance
- Access to a peer network
- Easily create a roadmap of sustainability actions that work for your community





MGC Challenge Certification



Bronze	20
Silver	60
Gold	100
Platinum	175 plus
New!	metrics



MGC Challenge Categories

- 1. Planning for Inclusive & Lasting Impacts
- 2. Climate Resilience & Adaptation
- 3. Energy Efficiency & Renewable Energy
- 4. Responsibly Managing Materials
- 5. Sustainable Land Use & Economic Development
- 6. Improving Health Outcomes
- 7. Protecting & Conserving Water Resources
- 8. Support Clean & Inclusive Mobility
- 9. Inspire & Mobilize Residents

CATA C <mark></mark> M			
	Resource Hub		
	(5) Energy Efficiency and Renewable Energy	Improving Health Outcomes	දිටු Inclusive & Lasting Impacts
source Protection	Land Use	Aaterials Management	Mobility
onomic Development Tools ownfields		Ø	٥
een Jobs cal and Sustainable Sourcing	Residents	Resilience & Adaptation	Water
	ible to support the local economy and reduce environmental ng can benefit small businesses and reduce transportation/sl		
munity Examples: ity of Cleveland. OH Preference for Local Producers. Local- Ity of Manilewood. JNN Environmental Purchasing Policy Up of Lansing Environmental Preferred Procurement Policy akland County "Local Germa" Sweenstakes Program			
griculture & Food Systems		~	



Energy Efficiency & Renewable Energy

Sample Action Items:

- 1. Conduct energy audits on municipal/county facilities.
- 8. Adopt policies and/or ordinances that support renewable energy projects on private property.
- 10. Develop plan to upgrade/retrofit municipal/county buildings to improve energy efficiency.
- 21. Create and offer residents and/or businesses an opportunity to participate in a community renewable energy project (e.g. community solar park) if possible.



Template Sustainability Plan Resource Kit

	Comm	() CITY OF METRO CITY	
	leople who don't speak	METRO CITY SUSTAINABILITY INITIATIVES	RECENT SUCCESSES • Built a demonstration rain garden at City Hall • Upgraded 50% of city-owned
[This page is provided as an exam template can be found on the folio		Metro City is taking action to make our community more sustainable. The City recently adopted the 2023 Metro City Sustainability Plan, which was informed by a series of community meetings and the Michigan Green Communities Challenge. The plan includes goals related	streetlights to LEDs in 2022 Received a grant to weatherize 20 homes Purchased two electric vehicles for our city fleet
Priority Actions for (20XX-20XX) Refere values: List are stable values in the table, states the Values: Executive Summary In Invariantly work much is committed to taking action to make our community more states. The jammary and the context of values and uses a formation of the states of this as deviced, our the context of values and uses a formation of the states of which are a deviced our the context of values and uses a formation of the states of which are a deviced our the context of values our our operations of the states of the		to clean energy, economic development, climate adaptation, waste management, transportation, health, and much more. This document summarizes our recent successes and our top five profivity actions for the next three years. Our sustainability initiatives are intended to benefit our community, our economy, and our environment. This work wouldn't be possible without detro CK residents, businesses, and organization. To see the full austainability plan and learn about how you can get involved with our community's sustainability initiatives, please visit website.com. VENON Reduce greenhouse gas emissions 80% from 2005 levels	KEY METRICS 9 miles of dedicated bike lands 9 4% of municipal operations powered by rerewable energy 9 30% tree canopy cover
velopment, climate adaptation, waste management, heath, and muc ur sustainability initiatives are intended to benefit our community, our winonment. This work wouldn't be possible without [municipality/cours silnesses, and organizations. To learn about how you can get involve stainability initiatives, please with [Insufr relevant webpage].	economy, and our ty name) residents,	by 2040. PRIORITY ACTIONS FOR 2024-2026	
ecent Successes		Action	Impact
 st any recent successes that you want to highlight – examples below Built a demonstration rain garden at City Hall 	v]:	[insert priority action here]	***
Upgraded 50% of city-owned streetlights to LEDs in 2022 Received a grant to weatherize 20 homas Purchased two electric vehicles for our city fleet		[insert priority action here]	**

High-Level Goals/Vision

e gas emissions 80% from 2005 levels by 2040

Action	Impact
[insert priority action here]	***
[insert priority action here]	**
[insert priority action here]	**
[insert priority action here]	*
[insert priority action here]	*



migreencommunities.com/plan



Accelerator Cohort Bronze & Silver

- Focused modules, topics selected by participants
 - Green stormwater infrastructure, materials management, sustainable purchasing, energy auditing, resiliency planning
- Monthly workshops, 3-4 months at a time
- Subject matter experts, consultants, small group & one-on-one support



For Silver, Gold, & Platinum

Catalyst Leadership Circle (CLC)

- Meets every other month, usually virtually
- Biweekly resource email

CLC Fellowship

- Grad students from across the state help CLC Members complete advanced sustainability projects
- Project deliverables are shared on the Catalyst Communities resource hub and graham.umich.edu/clcf





Sustainable Towns





Connects local governments with U-M students to expand office capacity and elevate community sustainability efforts using MGC as a framework



Sustainable Towns

Semester 1:

- Students establish your community's sustainability baseline
- Help you identify sustainability goals
- Develop short-term work plans

Semester 2:

- Students further scope & implement these priority projects
- Position you for easy MGC Challenge submission & continued technical assistance

graham.umich.edu/project/sustainable-towns







Right Now: Energy Navigators Technical Assistance

- Rural & remote communities
- 10 40 hours TA from GPI
- Energy planning, funding strategy, and more
- Complete intake by July 15
- See handout





https://bit.ly/3GI4mtP







Create MGC account/find your login credentials

Download templates at migreencommunities.com/plan

Visit Catalyst Communities

June 4 Energy Planning Webinar



Contact Information





Danielle Beard

Michigan Green Communities dbeard@migreencommunities.com (517) 908-0308





EGLE Energy Services Meeting Communities Where They Are



Julie Staveland Assistant Division Director, Materials Management Division, EGLE

StavelandJ@michigan.gov



Mary Reilly

Government and Community Vitality Educator, Michigan State University Extension <u>reillym8@msu.edu</u>



Danielle Beard MGC Coordinator, Michigan Green Communities dbeard@migreencommunities.com



Madeleine Krol

Clean Energy Land Use Specialist, Graham Sustainability Institute, University of Michigan <u>krol@umich.edu</u>







Drum Roll Please....

ZONING FO SOLAR ENERGY SYSTEMS A GUIDE FOR MICHIGAN LOCAL GOVERNMENTS **2025 EDITION**

MICHIGAN STATE



CENTER FOR EMPOWERING COMMUNITIES

PLANNING &

ZONING FOR SOLAR ENERGY

A GUIDE FOR MICHIGAN LOCAL GOVERNMENTS

2025

SYSTEMS



2022

PLANNING & ZONING FOR SOLAR ENERGY SYSTEMS

A GUIDE FOR MICHIGAN Local governments

2025 EDITION

MICHIGAN STATE

COMMUNITIES

Updated Resource!

extension.msu.edu/solarzoning

Extension

Authors

MICHIGAN STATE

- **Tyler Augst,** Educator, MSU Extension, Government and Community Vitality
- Harmony Fierke-Gmazel, AICP, Outreach Specialist, MSU School of Planning, Design and Construction
- M. Charles Gould, Educator, MSU Extension, Bioenergy
- Madeleine Krol, Clean Energy Land Use Specialist, Center for EmPowering Communities, Graham Sustainability Institute, U-M
- Sarah Mills, PhD, Director, Center for EmPowering Communities, Graham Sustainability Institute, U-M
- Bradley Neumann, AICP, Senior Educator, MSU Extension, Government and Community Vitality
- Mary Reilly, AICP, Educator, MSU Extension, Government and Community Vitality
- Olivia Stoetzer, Research Area Specialist, Center for EmPowering Communities, Graham Sustainability Institute, U-M



What's changed? Legislation!

Extension

MICHIGAN STATE

- PA 235 of 2023- 50% energy from renewables by 2030, 60% by 2035
 - Increases distributed energy generation cap to 10%
- **PA 233 of 2023-** MPSC certification option for permitting utility scale projects (CREO, Workable Ordinance)
- **PA 108 of 2023-** Payment in Lieu of Taxes (PILT) option for utility scale solar projects (may opt for standard depreciation)
- **PA 230 of 2023-** Solar panels permitted on land enrolled in PA 116, when conditions are met
- PA 68 of 2024: Homeowners Associations (HOA) cannot completely ban solar panels







More on PA 233

- 50 MW+ for solar (200+ acres)
- New decision paths for zoning
- All other scales
 Mi
 are still local!

MPSC: Michigan Public Service Commission CREO: Compatible Renewable Energy Ordinance CREO



WIO: Workable Incompatible Ordinance



Comparison of Zoning Pathways

- Pros and cons for each option
- Detailed table comparing:

Extension

- Permitting Process
- Location Control
- Setbacks
- Height

MICHIGAN STATE

- Sound
- Screening
- Groundcover
- Decommissioning



Table 3. Comparison of Zoning Items Between Zoning Pathways for Large SES

	Compatible Renewable Energy Ordinance (CREO)	MPSC	Workable Incompatible Ordinance (WIO)
Process	Use by right with site plan review by Zoning Administrator or Planning Commission [A]	Michigan Public Service Commission (MPSC) contested case [B]	Use by right with site plan review or special land use (SLU)
Location Control	All districts (General Provisions) [A]	 Sec. 226(7)(f), Sec. 225(1)(n) All districts + Evaluation Criteria: 1) Will not unreasonably diminish prime farmland/ farmland devoted to specialty crops. 2) Shall consider feasible alternative development locations. 3) Shall consider the impact on local land use, including the % of land dedicated to energy generation. 	Locally designated zoning districts or overlay as long as it provides ample and suitable land for development [C, D]



2025: New size classifications, suggested thresholds

MICHIGAN STATE

Extension

	Exampl e Zoning District	Resource Production / Agricultural	Low-Density Residential	Commercial / Office	_Industrial	Medium- Density Residential	Mixed Use
	Roof Mounted	Р	Р	Р	Р	Р	Р
Accessory: roof, ground mounted	Accessory Ground Mounted	Р	Р	Р	Р	Р	Р
Small: up to 5 MW	Principal Use (Small) (e.g., up to 5 MW)	SPR	SPR/SLU	SPR	SPR	SPR/SLU	SPR
Medium: 5-50 MW	Principal Use (Medium) (e.g., 5-50 MW)	SLU	SLU	SLU	SPR/SLU	x	x
Large: over 50 MW		See Page XX	for discussion	of options in lig	ght of PA 233		

P = Permitted (zoning standards apply); SPR = Site Plan Review; SLU = Special Land Use; X = Not Permitted

MICHIGAN STATE | Extension



Solar is Scalable: Urban to Natural Landscapes



Figure 1. Examples of Solar Energy System Types Across Different Geographies

Solar Energy System Type	Natural	Rural	Urban	General Urban
Actessory Roof Mounted				
Accessory Ground Mounted				
Principal Use (Small/Medium)				
Principal Use (Large)				

Figure 1 shows the type and scale of SES that exhibit predominant factors for compatibility in a given setting.



New Issues or Deeper Dives

Extension

- Zoning pathways-utility scale
- Dual siting with BESS, wind, solar
- Stormwater

MICHIGAN STATE

- Ecovoltaics and agrivoltaics
- Residential scale (HOA, wall, roof, building integrated systems)
- Utilizing some definitions and options under PA 233







Sample Zoning Ordinance Language

ZONING

- All scales (small to large SES)
- General Provisions to SLU
- Fill in the blank options
 - Key local decision points
 - Suggestions
 - Local customization required
 - Commentary

SITE PLAN REVIEW (SPR)

- Sample ordinance language
- New (2025)
 - Stormwater Plan
 - Grading Plan
 - Complaint Resolution Plan





Planning and Zoning Resources: Battery Energy Storage Systems (BESS), Wind Energy (update 2026), Solar

MICHIGAN STATE | Extension



EGLE Energy Services Meeting Communities Where They Are



Julie Staveland Assistant Division Director, Materials Management Division, EGLE

StavelandJ@michigan.gov



Mary Reilly

Government and Community Vitality Educator, Michigan State University Extension <u>reillym8@msu.edu</u>



Danielle Beard MGC Coordinator, Michigan Green Communities dbeard@migreencommunities.com



Madeleine Krol

Clean Energy Land Use Specialist, Graham Sustainability Institute, University of Michigan <u>krol@umich.edu</u>





Renewable Energy Academy Planning & Zoning Resources for Renewables

Madeleine Krol May 20, 2025

MAP 2025 Spring Institute: Renewable Energy Summit



What is the Renewable Energy Academy?

- REA is a one-stop-shop hub for large-scale renewable energy
- Offers a suite of resources to aid in the process of planning and zoning for renewable energy
 - Tailored training, webinars, workshops, connecting to experts & peers
 - Resources, guides, tools
 - Individual technical assistance for local officials and planners





Renewable Energy Academy Partners



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY











REA Workshop Series on PA 233

- 9 (of 14) regions; 320+ participants from local government representing 110+ jurisdictions;
 - Two additional workshops for planning consultants with MAP!
 - Recorded version of the workshop
- Basics of planning and zoning for large-scale solar, wind, battery storage
- Overview of the Act and zoning options for local govs
- Guided activities, peer-to-peer sharing







Join us after the keynote luncheon: Playing Your Cards Right – Navigating Permitting for Large Renewables



Resources on PA 233

- Overview of PA 233 slide deck & FAQs
- Checklists for local governments navigating:
 - the MPSC permitting process
 - the Compatible Renewable Energy Ordinance (CREO) Process
 - Zoning resources:

-

- Data on "Workable" Ordinances
- Sample solar, battery storage language, annotated wind template (MSUE)
- Sample CREO
- More resources on MPSC's page!

GRAHAM SUSTAINABILITY INSTITUTE Our Work* Opportunities* About* Giving

Home / Projects / Michigan's New Renewable Energy Siting Law

Michigan's New Renewable Energy Siting Law







Individual training

6-part series with NEMCOG

- Introduction to Planning and Zoning for Renewables
- Advanced Training
- Four Zoning Nuts-and-Bolts Mini Workshops



Washtenaw County Resiliency Office

 Upcoming workshop on battery storage and solar, developing sample ordinance for the county

Training for local officials:

- Battery storage, solar, wind?
- PA 233, zoning, planning?
- Who else is collaborating?



Review of zoning ordinances

- Comparing it to sample ordinance, PA 233
- How does this fit with planned goals?
- What's your intent? What message is this sending to developers?





Renewable energy site tours

- Bus tours with MAP since 2022
 - Lansing Tour with Ingham and Eaton Counties
 - Northern Michigan Tour with NEMOG
- Plan your own with 10-step handbook
- Next tour planned for August!







Resources

GRAHAM SUSTAINABILITY INSTITUTE Our Work* Opportunities* About * Civing



Home / Renewable Energy Academy

Renewable energy is on the rise and wind and solar development are possible across most of Michigan—especially near transmission lines. If your community hasn't already been approached by energy developers, it likely will be approached within the next few years.

Is this a threat or an opportunity for your jurisdiction? That depends on whether you're prepared with existing, up-to-date zoning ordinances for wind and solar development. If not, now is the time to determine whether and how these energy systems fit within your community's land use goals, which will help landowness understand what is possible on their property.

We're here to help! With support from the Michigan Department of Environment, Great Lakes, and Energy (ECLE), we offer a suite of resources to aid in the process of planning and zoning for renewables.

Menu of Services

 Introduction to Planning and Zoning for Renewables: Offered to elected and appointed officials, this foundational course requires no prior knowledge of renewable energy. You'll learn how to understand local impacts—both positive and negative—and ensure any energy development aligns



Ian O'Leary Olearyi@Michigan.gov The Renewable Energy Academy (REA) is a one-stop for large-scale renewable energy in Michigan, hosting a hub for resources, tools, and experts in the field and providing no-cost technical assistance to communities.

Addisionalls, through funding from the US Department of Energy Reexable Energy Siting through Enchance Reagenement and Palamine IR-STEE programs the Energy Services Unit is partnering with the University of Michigan's Cathann Statanability Institute, Michigan State University Extension S Lakes Energy. The Kichigan Association of Panning, and more to generate new EEA materials and services to further emopwer the decision making capacity of any interested part on the topic of lange-scale nervaelable energy.

Home Planning & Zoning Funding Opportunities Clean Energy Information Bureau Our Team





OPPORTUNITY

Zoning

Get the esser

EVENTS

Master BESS Planning &





Renewables Ready

Communities Award

michigan.gov/egle/about/organization/ materials-management/energy



Questions?

Reach out to me!

Madeleine Krol

Clean Energy Land Use Specialist, Center for EmPowering Communities Graham Sustainability Institute University of Michigan krol@umich.edu

EGLE Energy Services Meeting Communities Where They Are



Julie Staveland Assistant Division Director, Materials Management Division, EGLE

StavelandJ@michigan.gov



Mary Reilly

Government and Community Vitality Educator, Michigan State University Extension <u>reillym8@msu.edu</u>



Danielle Beard MGC Coordinator, Michigan Green Communities dbeard@migreencommunities.com



Madeleine Krol

Clean Energy Land Use Specialist, Graham Sustainability Institute, University of Michigan <u>krol@umich.edu</u>

