



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

Playing Your Cards Right: Navigating Permitting for Large Renewables

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UM's Center for EmPowering Communities

- Research on land use policy for renewable energy, community impacts
- Funding from State Energy Office in EGLE
 - Facilitate planning & zoning, e.g.:
 - More training, resources, review draft zoning ordinances, answer questions
 - Bus tours, connect you to MSU-Extension, other communities
 - Provide state-based data
 - Present pros and cons





$EGLE \rightarrow Energy Services Unit$

- Zoning analysts with technical assistance backgrounds.
 - Not involved with development of PA 233
- Position is that local zoning is still effective & necessary.
 - Decision on how to apply this information is yours.



Where we've held "Renewable Energy Academy" PA 233 Workshops







The RRCA provides up to \$5,000/MW to permitters and hosts of utility-scale renewable energy projects which underwent local permitting after Oct. 2023. There is no deadline to <u>apply</u> — open until funds are depleted.

PA 233 requires developers to *pay communities* for State siting (\$2k/MW). Pre-RRCA, this could have disincentivized communities from updating their ordinances. A grant from the State for *local* permitting ensures a municipality gets extra revenue down either path, and emphasizes a more winwin route for developers/local governments.



The Scope

Our goal is to help communities know their options in the new renewable energy siting landscape: **PA 233** and a Renewable Portfolio Standard (**RPS**) of 50% by 2030.

Bigger picture of renewables is out of scope.

- Taking policies *as is*. Discussing them is a valid conversation, but for a different occasion.
- Active appeal against PA 233 by ~80 jurisdictions
 - MPSC process will continue until court decision.



From Clearpath Energy, 2022

Public Act 233 of 2023

Creates an option for developers to ask the Michigan Public Service Commission (MPSC) to permit a grid-connected renewable energy project if an affected local unit does not have a "compatible renewable energy ordinance" (CREO).

This option is present as of Nov. 29th, 2024.Solar Energy:
Solar Energy:
50 MW nameplate
capacityEnergy Storage:
50 MW nameplate capacity
with an energy discharge
capability of 200+ MWhWind Energy:
100 MW nameplate
capacity

1. A developer is not **required** to go to MPSC. They may stay local even with an "incompatible" ordinance.

2. Once at permitting, project already has a **voluntary landowner host**. No eminent domain.

3. **Exception**: A city or village is exempt IF the energy facility is located entirely within a city or village, AND IF the city or village EITHER is the owner of the participating property, OR is a developer of the facility, OR owns an electric utility that will take service from the energy facility.



4 Permitting Pathways - Preview



Why "workable" ordinances can work

State siting gives developers a *backstop* of certainty for difficult cases, but it won't be the first choice.

- MPSC is not green-lighting projects. Application requirements and staff recommendations will impose some thorough siting requirements on developers.
- As such, MPSC siting is expensive, time intensive, and unpopular, so many developers have expressed preference towards *workable ordinances*.



For most developers, CREO will be the top preference for its cheap & quick process... but next is a *workable local ordinance*, not MPSC.

Only when an ordinance becomes "unworkable" will a developer seek MPSC certification, which is time-intensive & costly.

Note: This isn't true for all developers and projects. MPSC certification is still a highly viable option in some cases.



What does a CREO cover? The "floor" of a workable ordinance



- Our conservative interpretation is that anything more than this is incompatible
 We think this helps local govts avoid "false CREO" penalties
- The numbers themselves are usually quite permissive; check the act itself



What does the MPSC Cover? The "ceiling" of a workable ordinance

MPSC Imposed Conditions (Application Instructions and Procedures)



 Pre-Operation Emergency Response Training + Ongoing upon request





Additionally through MPSC:

MPSC Community Benefits and Project Requirements:

- Developer pays up to \$75,000 to each ALU for intervenor's fund with no more than \$150,000 in total for the project.
 - ALU, participating property owner, or non-participating property owner may intervene by right.
- Developer pays \$2,000 per MW to each ALU for Host Community Agreement (HCA)
- Up to 365 days for the MPSC to make a decision

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Additionally through MPSC:

MPSC will also require developers to demonstrate:

- That the project does not "unreasonably diminish farmland"
- That the project "does not present an unreasonable threat to public health or safety"
- That the project has labor & apprenticeship agreements for construction and maintenance
- "The percentage of land within the local unit of government dedicated to energy generation"
- Why alternative sites were not feasible





EGLE is not providing any legal advice through this presentation. The municipality should consult with legal counsel about any zoning decision.

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Why Not



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How



 Pass a zoning ordinance no more restrictive than the standards laid out in Sec. 226(8) of PA 233.

(The most conservative interpretation of a CREO)

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- Don't pass or update your ordinance.
- Once project is proposed, you can request the MPSC to require developer to obtain certificate by contacting MPSC Executive Secretary and Staff.
 - Not required.

Workable

- Start with MPSC process; add and/or trim to workability with local priorities.
- Pass well-informed ordinance & show willingness to converse.
- Don't claim compatibility and prepare to amend.

Unworkable

INCOMPATIBLE

Developer can call MPSC

- Pass or maintain the incompatible ordinance.
- Say you do not have a CREO and have no intent of amending the ordinance further.
- Formally request that a developer permit the project locally.

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Workability is a Balance

- Starting from the MPSC's Standards, Conditions, and Process:
 - Rank the standards and conditions in order of importance to your community
 - Identify the zoning item(s) you would change to reflect more of your community's preferences
 - Consult with municipal attorney, planning professionals, and available data
 - Identify the standards and conditions you'd be willing to give up/soften
 - This frees up some wiggle room for community preferences while maintaining balance





Guidance on what's worked before



Example: Assembly Solar



STRATEGY 1: "FINE-TUNING" A CREO ITEM



Solar sound

CREO	MPSC	Workable	Unworkable
NP <u>Outer Wall*</u> : 55 dBA Leq (1-hour)	NP <u>Outer Wall*</u> : 55 dBA Leq (1-hour) + Conditions of Approval:	NP <u>Property Line</u> : Range between Ambient + 5 dBA Leq and 60 dBA LMax	NP <u>Property Line</u> : Below 45 dBA LMax
* ["outer wall" measurement penalty]	 Contract with a third- party acoustics expert for post-construction monitoring Demonstrate compliance and maintain compliance 		

through sound

necessary

mitigating measures if



Sound tweak-points

- Sound standards all include:
 - **Reading type:** *LMax* only must be exceeded once, *Leq* averages over a period (more wiggle room)
 - **Measurement location:** An ear at property line *or* inhabited structure
 - **Decibel amount:** Measurement location is much more important

Source	CREO	Past Projects (rough avg.)
Nearest property line	-	40-60 dBA Max
Inhabited structure	NP: 55 dBA Leq (1 hour)	-

- Sec. 226(8) solar sound has three permissive elements: average, structure, non-participating only



Solar setbacks

CREO	MPSC	Workable	Unworkable
NP Property Line: 50ft NP Structure: 300 ft Public Road: 50 ft	NP Property Line: 50ft NP Structure: 300 ft Public Road: 50 ft	NP Property Line: 15-500 ft NP Structure: 200-500 ft Public Road: 40-100 ft P Property Line: 0-50 ft P Structure: 0-300 ft	NP Property Line: 500+ ft NP Structure: 500+ ft Public Road: 100+ ft P Property Line: 50+ ft P Structure: 300+ ft



Solar height

CREO	MPSC	Workable	Unworkable
25 feet at full tilt	25 feet at full tilt	14 - 18 feet or district height	Below 14 feet



Solar decommissioning

Financial assurance after deducting

CREO

salvage value:

- 25% on operation
- 50% by 5th year
- 100% by 10th year

MPSC

Same as CREO +

Conditions of Approval:

- Repair all drainage systems damaged during construction and decommissioning
- Demonstrate that financial assurance has been acquired and will be maintained

Decommissioning Plan agreed upon by developer and community, including financial assurance **after deducting** salvage value, reviewed every 3-5 years:

Workable

- 100% upon permitting

Unworkable

Financial assurance **including** salvage value, reviewed and updated every 3-5 years Recycling of all materials: - 125 % upon permitting



STRATEGY 2: "MIRRORING" AN MPSC ITEM



Solar screening

MPSC	Workable	Unworkable
Condition of Approval: Agreement to implement screening, approved case-by-case by Commission	Types of screening: Landscaping orPrivacy FencingStandards of underlyingzoning district, ifinadequate then PC mayrequire along NPresidential uses;or MSU-E/UM samplezoning guidebook	<section-header><text><text></text></text></section-header>



Solar ground cover

MPSC	Workable	Unworkable
Evaluation Criteria: Vegetative groundcover in <i>consideration</i> of MSU's Michigan Pollinator Habitat Scorecard + similar Condition of Approval	Sites not enrolled in PA 116 must meet one or more of the four types of dual use: 1) MSU Pollinator Habitat Planning Scorecard for Solar Sites: score of 76 or more 2) Conservation cover 3) Forage cover 4) Agrivoltaics	Must meet one of two types of dual use: 1) Forage cover 2) Agrivoltaics



Solar approval process

CREO	MPSC	Workable	
By Right + Site Plan Review	Commission contested case process	Special Land Use	



STRATEGY 3: PAY EXTRA ATTENTION TO "DEALBREAKER" ZONING ITEMS



Solar location control

CREO	MPSC	Workable	Unworkable
All districts	All districts + Evaluation Criteria: 1) Will not unreasonably diminish prime farmland 2) Shall consider feasible alternative development locations 3) Shall consider impact on local land use, including % of land	<pre>! Districting ! ! Lot minimums ! Implemented in a way that still provides ample and suitable land for renewable development + large patch size + access to transmission/substation is considered</pre>	<pre>! Overlays ! ! Districting ! ! Lot Maximums ! Implemented in a way that does not provide ample and suitable land for renewable development</pre>
	dedicated to energy generation		a <mark>tic when a developer has entified a project location!</mark>



STRATEGY 4: GET YOURSELF EASY WIGGLE ROOM



Review timeline

CREO	MPSC	Workable	Unworkable
120 - 240 days	365 days	Streamlined by resolution (less than 365 days)	No time limit



Additional financial benefits

CREO	MPSC	Workable	Unworkable
Not required of developer through zoning.	Guaranteed \$2,000/MW Host Community Agreement for Zoning Authority	Community Benefits Agreement Request financial benefits tied to direct impact of project on community.	Community Benefits Agreement Require \$/MW CBA that's greater than the MPSC's HCA requirement.
<i>Reminder: If permitted locally, eligible for RRCA</i>		Reminder: If permitted locally: Eligible for RRCA If permitted at state: Guaranteed HCA	Reminder: If permitted locally: Eligible for RRCA If permitted at state: Guaranteed HCA



STRATEGY 4: GET YOURSELF EASY WIGGLE ROOM

Other examples for easy wiggle room include:

- MPSC's Application Filing Requirements that you can live without
- Alternative locations analysis
- Proof of consultation with other agencies, ...



RENEWABLE ENERGY ZONING ACTIVITY

This is a *solar* hypothetical, but the thinking will be useful for any technology.



Workable Zoning Activity

 Sound Setbacks Screening Ground Cover Height Decommissioning 	CREO PA 233 Standards	PA 233 Standards + MPSC Conditions of Approval
 Location Control Timeline Approval Process Additional Financial Benefits 	Workable Incompatible Standards	Unworkable Incompatible Standards


Activity instructions



We'll hand out activity cards and instruction sheets.

→ Meet your client:

The fictional Great Lakes Township.

Play through the scenario – Follow the prompts: Craft a dream ordinance and exercise the balancing act of workability by following prompts on the screen.



After the activity: Group report-out and closing remarks.



Scenario: Great Lakes Township

- Great Lakes Township is a rural community that prides itself for their contribution to agricultural production and the peaceful rural landscapes the area has to offer.
- The people of Great Lakes Township hope to preserve the community's character and landscape as much as possible, but they also recognize that the current siting landscape prevents restricting the land use.
- Great Lakes Township believe a workable ordinance drafted prior to a project proposal aligns most with their community goals.
- They've hired **you** to help them draft a solar ordinance that reflects their community priorities while also establishing a starting point for workability should a developer come to the planning commission with a proposal.









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Great Lakes Township Priorities Summary:

- Preserving the rural, agricultural character of the township.
- Preserving the serene, peaceful nature of the environment in the township.



Zoning Activity Step 1



Step 1: Craft Great Lakes Twp's "Dream Ordinance"

- Don't worry about workability yet.
- One by one, flip through each card set and choose the preferred option that aligns with your community's priorities.

nce"	
CREO PA 233 Standards	PA 233 Standards + MPSC Conditions of Approval
Workable Incompatible Standards	Unworkable Incompatible Standards



Zoning Activity Step 2



Step 2: Balance your ordinance priorities

- Now let's start thinking about workability.
- **PA 233** Standards + **CREO PA 233 MPSC Standards Conditions of** Approval Workable Unworkable Incompatible Incompatible **Standards Standards**
- Following the prompts on the next slides, we'll exercise this balancing act.



Step 2: Balance your ordinance priorities

 Rank your three highest priority zoning items in the Dream Ordinance you just crafted.

Setbacks	Sound	Ground Cover	Height	Screening
Decommission	Location	Timeline	Approval	Financial
-ing	Control		Process	Benefits



Step 2: Balance your ordinance priorities

 If you had to remove two zoning items below from consideration, which two would it be?





Step 2: Balance your zoning priorities

Change one red or yellow card to green or blue.

–In exchange, you are allowed one total red card. What item would it apply to?

This reflects the process of *reducing a low-priority item* with the expectation of *maintaining a high-priority item*.



Zoning Activity Step 3



Step 3: Reactive scenario

<u>After</u> you have passed your proactive ordinance, SunEnergy Inc. approaches Great Lakes Township with a solar energy project proposal. They already have signed leases with a few landowners in the community, and their parcels do not land in districts in which the existing ordinance allows for renewable energy.

How do you respond?

If you can ask the developer for a more protective item to make up for the location accommodations, what would you choose? You can also include items not currently in your card deck.



Activity report out



What was one thing you learned through the activity? Did something surprise you?

Which challenges do you anticipate planners face in helping communities decide for a pathway and balancing priorities? What's needed to support them?

Which questions do you still have? Which questions do you anticipate communities and planners have?



Where does planning fit in all of this?

- The role of planning in PA 233
 - Not in the law, but MPSC instructions require it
 - MPSC to consider impacts on local land use
- Identify top community concerns and priorities to inform a workable ordinance
 - Tools: Mapping local suitability for solar/wind (EGLE); community engagement
- Consider energy facilities in the context of existing goals
 - Early conversations about tensions between goals/zoning items helpful either way
- "<u>Rezoning justification memo</u>"/findings
 - For the ordinance decisions you take, link intentions to master plan goals
 - If MPSC route, paper trail for contested case



Fit with common planning goals

Typical Principles and/or Goals	Wind	<u>Solar</u>	Energy Storage
Mixed-Use (density, walkability); Enhance Existing Neighborhoods	No	No	No
Tourism Development (viewsheds, outdoor recreation)	No	Yes/No	Yes
Natural Resource (Open Space) Protection (community-wide)	No	No	Yes
Natural Feature Protection (onsite)	No	No	No
Historic Preservation	No	No	No
Sustainability; Resiliency; Energy Waste Reduction; Green Buildings	Yes	Yes	Yes
Economic Diversification (job creation)	Yes	Yes	Yes/No
Farmland Preservation (conventional definition)	Yes	No	Yes
Farm Viability	Yes	Yes	Yes
Rural character	Yes/No	No	Yes/No

Example goals & zoning levers

- Rural character
 - Sound, setbacks, screening?
- Tourism development
 - Screening, height of panels, location control?
- Preserving forested lands
 - Decommissioning, location requirements?



So, what's next?

We won't know how any of this will truly play out until there's case precedent – we need to see what projects the MPSC says yes and no to, and how developers respond to denials. Until then...

- Start thinking as a community what your zoning priorities are for renewable energy
 - Get your municipal planner and attorney involved
 - For multi-jurisdictional projects, less reason to adopt a CREO if your neighbors aren't
 - If you choose a path that requires amending your zoning ordinance (CREO or "Workable"), start moving quickly on those amendments
 - If you're still leaning towards an "Unworkable" ordinance, consider exploring how to harness benefits and minimize priority impacts with a workable ordinance



Resources

- MPSC: Renewable Energy and Energy Storage Facility Siting <u>webpage</u>
 - FAQs, MPSC's Application Filing Instructions and Procedures, Recording of stakeholder engagement workshops
- UM Center for EmPowering Communities: PA 233 resources
 - https://graham.umich.edu/project/MI-energy-siting
 - FAQs, guidance on "workable" ordinances (data), sample CREO
 - <u>Solar guidebook (2025 ed.)</u>, <u>storage guidebook</u>, <u>annotated wind</u> <u>guidebook</u> (MSU-E)
 - Checklists for local govs. navigating MPSC, CREO processes

- EGLE:

- Renewable Energy Academy webpage
- Renewables Ready Communities Award webpage
- Michigan Zoning Database
- Michigan Townships Association: PA 233 resources
 - Sample workable ordinances, sample CREO, Application Fee Escrow Documents, etc. (<u>members only</u>)





Resources cont.

- Local resource potential maps:
 - Reach out to EGLE!
- MPSC Resource Hub:
 - Michigan-specific <u>maps</u> of solar and wind projects, utility service areas, and much more
- MISO Interconnection Queue:
 - Interactive Queue Map showing proposed projects in Michigan
 - Interactive Queue <u>Data</u> (additional information on proposed projects)
- Geospatial Energy Mapper Tool:
 - Launch <u>tool</u> to view map with layer of existing transmission lines and substations, county boundaries, etc.
- US Energy Information Administration:
 - Existing Energy Infrastructure and Resources in the US (map)
 - Form EIA-860 <u>data</u> (existing and planned energy generators)
- US Wind Turbine Database and Solar Photovoltaic Database









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Questions?

- Reach out to us

- Answer questions
- Review draft ordinances
 - Talk through pros/cons of alternatives
- Connect you to other communities, MSU-Extension

- More training

- Renewable Energy Academy Workshops
- Online webinars on zoning

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