



U.S. DEPARTMENT OF
ENERGY

Working with Local Government to Address Barriers to Clean Energy Deployment

September 27, 2022



Agenda

- State and Local engagement, tools and resources
- Addressing Siting & Permitting Barriers for Renewable Energy
- Michigan's Community Programs

SCEP Mission and Priorities*

The Office of State and Community Energy Programs (SCEP) was established in January 2022 and is responsible for managing a portfolio of nearly \$6 billion in funding from the Bipartisan Infrastructure Law and annual appropriations. Through the disbursement of formula grants, DOE will extend the core capabilities of state energy offices and expand the weatherization provider network to assist low-income families with home energy retrofits. Competitive awards and technical assistance will **further the innovation by states and local governments** seeking to implement high-impact and self-sustaining clean energy projects.

SCEP Program Priorities



Deploy clean
energy
technologies



Catalyze local
economic
development



Create jobs



Avoid pollution
through place-based
strategies



Reduce
energy costs

*SCEP information is illustrative – an official announcement with details is expected soon

Department of Energy – State and Local Listing Sessions

Overview

- State and Local listening sessions held in Feb 2022
- Shared information and solicited feedback on the Department of Energy's Bipartisan Infrastructure Law (BIL) provisions impacting state and local governments (S&L)

Attendees

- 550+ state and/or local government representatives

Feedback and Areas of Need (local governments)

- Hiring and staff capacity
- Technical and analytical support
- Environment justice and workforce development training, tools, etc.

Partner Organizations

Urban Sustainability Directors Network, US Conference of Mayors, National League of Cities, National Association of Counties

Local Government Challenges – One Perspective

From recent **Urban Sustainability Directors Network event** on federal-state-local funding challenges:

Challenges:

1. Local governments often don't receive enough time to provide input in state plans that will influence how much funding they're going to receive, and often the amounts they receive aren't enough.
2. When local governments do receive information about the timing of funding opportunities it is often with little time for planning.
3. Local governments often struggle to help state and federal agencies needs historically underrepresented communities, so that this information is integrated into the distribution of funding and resources.

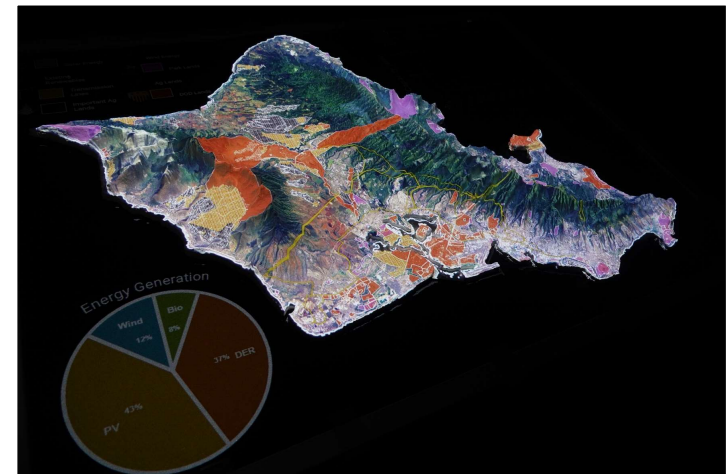
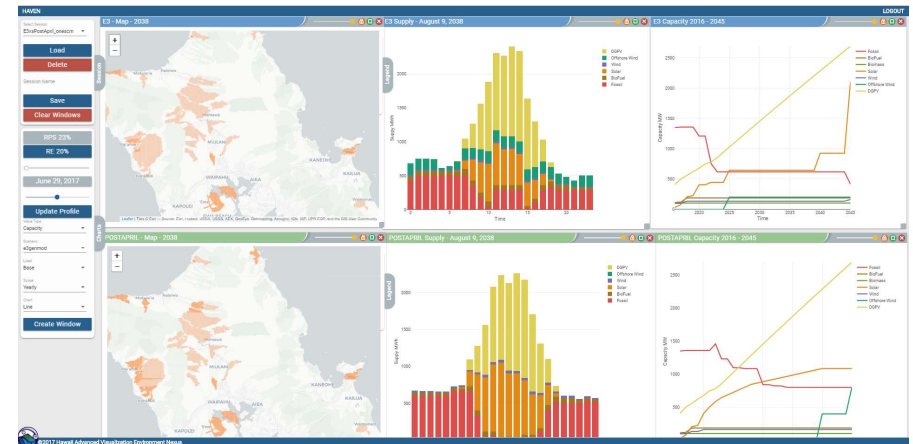
Solutions:

1. Local governments want to work with a specific office or individual where trust and relationships can be built. Develop or promote the existing offices which are available to local governments to share their priorities and needs.
2. Provide Local governments with ample and clearly communicated opportunities to advocate for their local priorities, and to lobby state and federal representatives for funding earlier in the process.
3. Local governments need support understanding the best uses of the limited funding with other resources to meet their project needs.

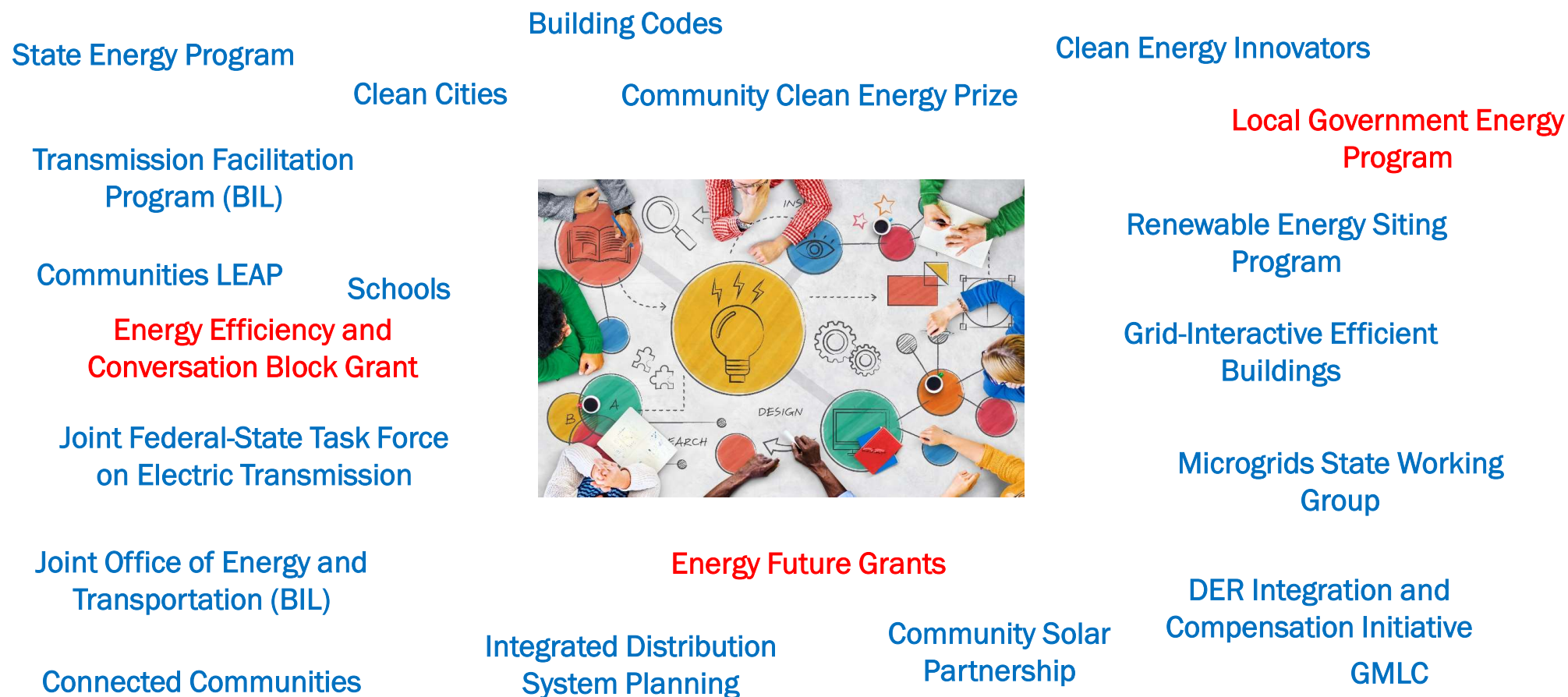
Example: HAVEN Tool for State-Local Engagement

Hawaii's SEO has used HAVEN to support local government and stakeholder engagement:

- Impacts of the electrification of transportation on land utilization for the buildout of future renewable energy projects
- Energy storage
- Video: [\(229\) HAVEN - Hawaii Advanced Visualization Environment Nexus - YouTube](#)



DOE Resources for State and Local Governments*



*Existing and planned resources within DOE SCEP, EERE, OE and GDO - not comprehensive



Thank You!

Greg Dierkers

gregory.dierkers@ee.doe.gov

About This Session – Framing Questions

1. How do successful state programs support local energy market needs, what are the secrets to success?
2. What are successful/demonstrated program models or tools that states can use to benefit or enhance state-local coordination?
3. What can DOE offer to help states need to reach local communities?
4. How can DOE ensure implementation of state-local programs in BIL and current / future budgets are consistent and clear for states (functions, mechanisms, program models, audiences)?

U.S. DEPARTMENT OF
ENERGY

Office of
**ENERGY EFFICIENCY &
RENEWABLE ENERGY**

Addressing Siting & Permitting Barriers for Renewable Energy

Kendra Kostek, EERE, Siting and Permitting Lead

September 27, 2022

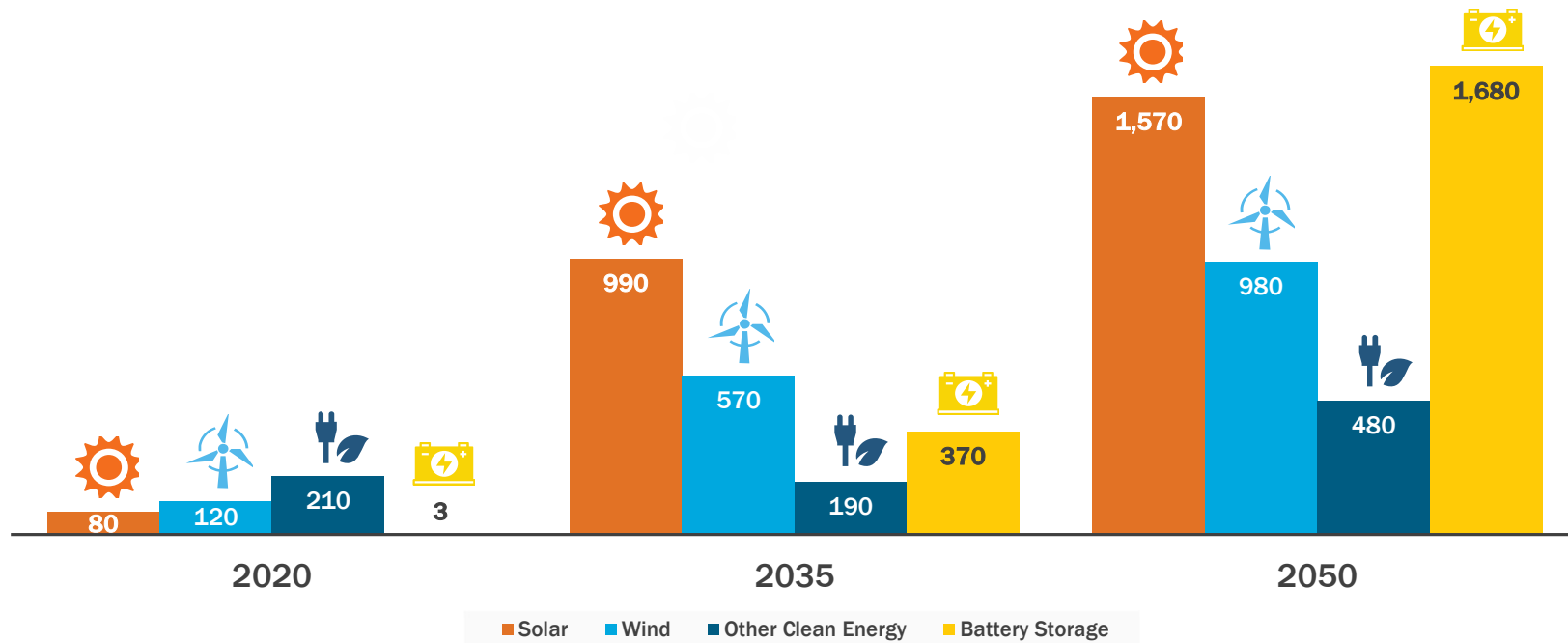


Overview

1. Siting Challenges
2. EERE's Approach & Stakeholder Engagement
3. New Siting Workshop Series
4. Options for States to Consider

Meeting our climate goals

- The Biden Administration's goal is to tackle the climate crisis at home and abroad while creating good-paying union jobs and an equitable clean energy future.
- In order to achieve this goal a significant amount of renewable energy needs to be deployed by 2050.

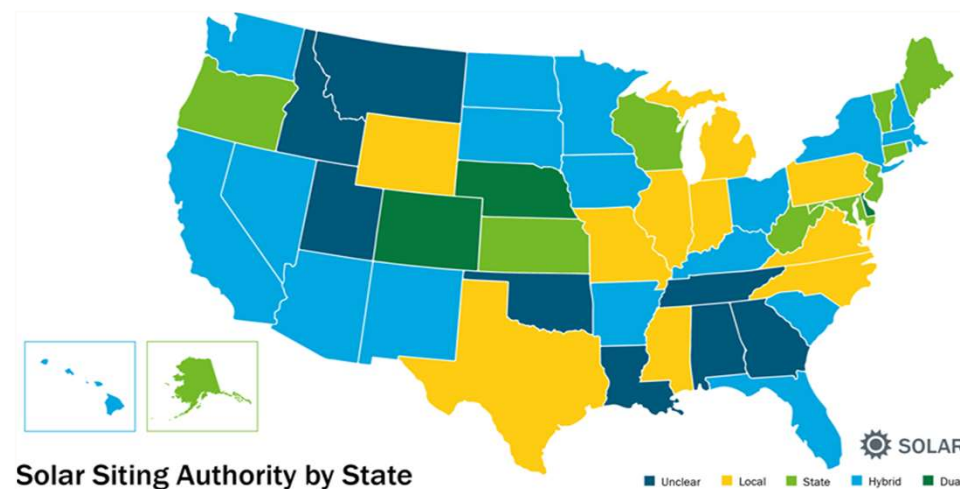
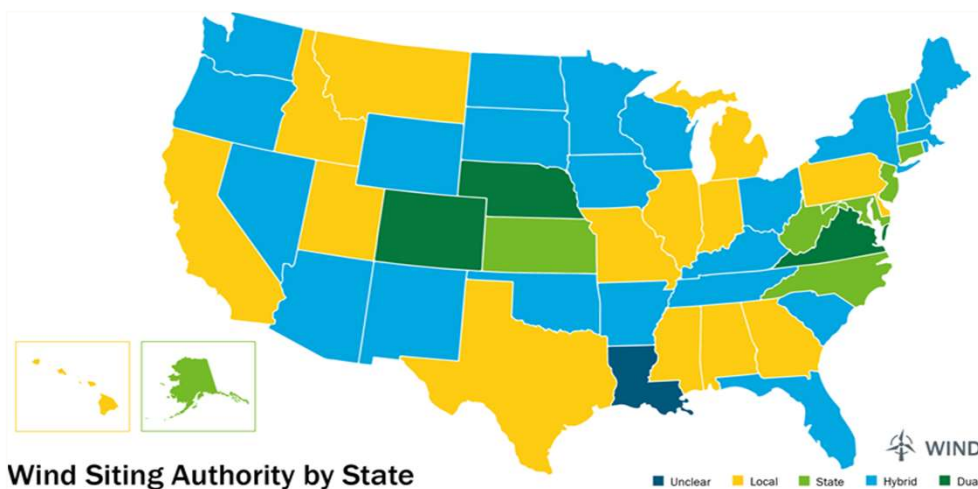


Renewable energy capacity to achieve 100% power-sector decarbonization with increased electrification by 2050, in GW
Source: NREL Solar Futures Study

Defining siting of renewable energy

- How do we define “Siting”? Identifying, acquiring, and preparing a location and the planning for construction, operation, and decommissioning. All activities can affect host communities, their economies, and the environment.
- Local governments have at least some siting authority in ~80% of states.

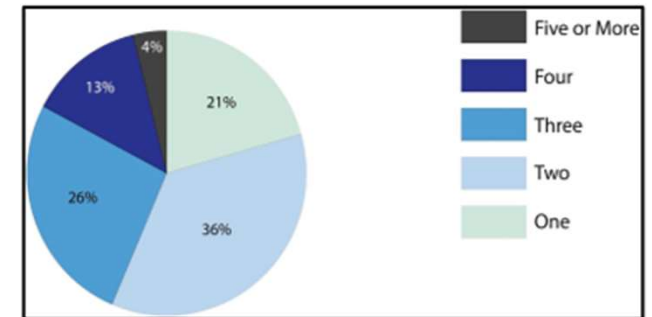
Key issue: State and local governments with the authority to permit projects may lack the necessary staffing capacity, resources, and familiarity with the issues. This will be further stretched as the size and number of proposed renewable energy projects increase.



Unaddressed community concerns, combined with lack of resources, can result in restrictive local laws & regulations

Community concerns and siting restrictions present a growing challenge:

- Communities across the US are rejecting renewables or slowing development due to: lack of experience with technology, inequities felt around development/lack of local benefits, real and perceived impacts, changes to traditional land use, and more.
- A [recent study](#) by MIT show solar, wind, geothermal projects face multiple sources of local opposition.



Title: Sources of opposition prevalence
Source: Sources of Opposition to Renewable Energy in the US

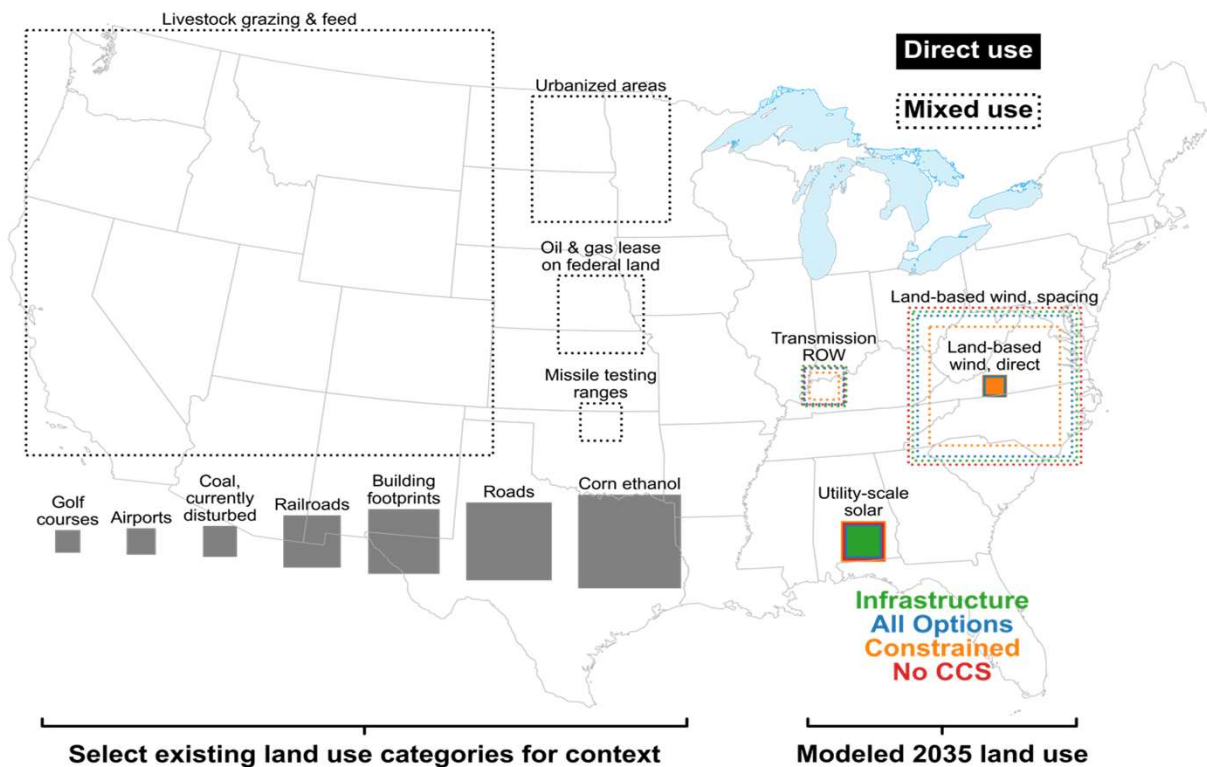
Local governments can use a range of approaches to restrict or ban renewable energy siting.

- In nearly every state, local governments have enacted policies to block or restrict renewable energy siting.
- There are + 100 restrictive local ordinances in the US and states with the most renewable development also have greater incidence of local opposition. ([Opposition to Renewable Energy Facilities in the US.](#))
- The scale of new renewable energy needed means that meaningful community engagement and support of these projects is critical.

Scale of deployment needs land at an unprecedented pace

The scale of deployment will likely affect many communities across the country because of the amount of land required.

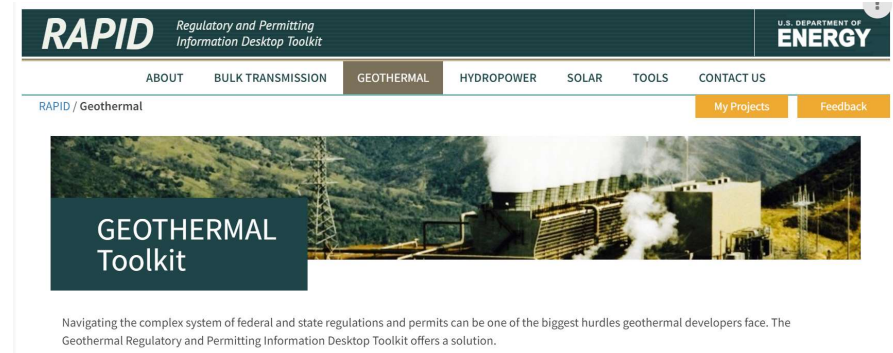
- Solar energy may require **+ 29,000 km²** by 2035.
- Land-based wind may require **+ 7,000 km²** of direct land use, **+346,000 km²** indirect land by 2035.



Source: NREL 100% clean electricity study

EERE resources & ongoing research






NREL Releases Comprehensive Databases of Local Ordinances for Siting Wind, Solar Energy Projects
 New Machine-Readable Data Sets Compile State, Local Zoning Laws and Ordinances for Siting Wind Energy and Solar Power Projects To Inform Planning for Decarbonization Goals



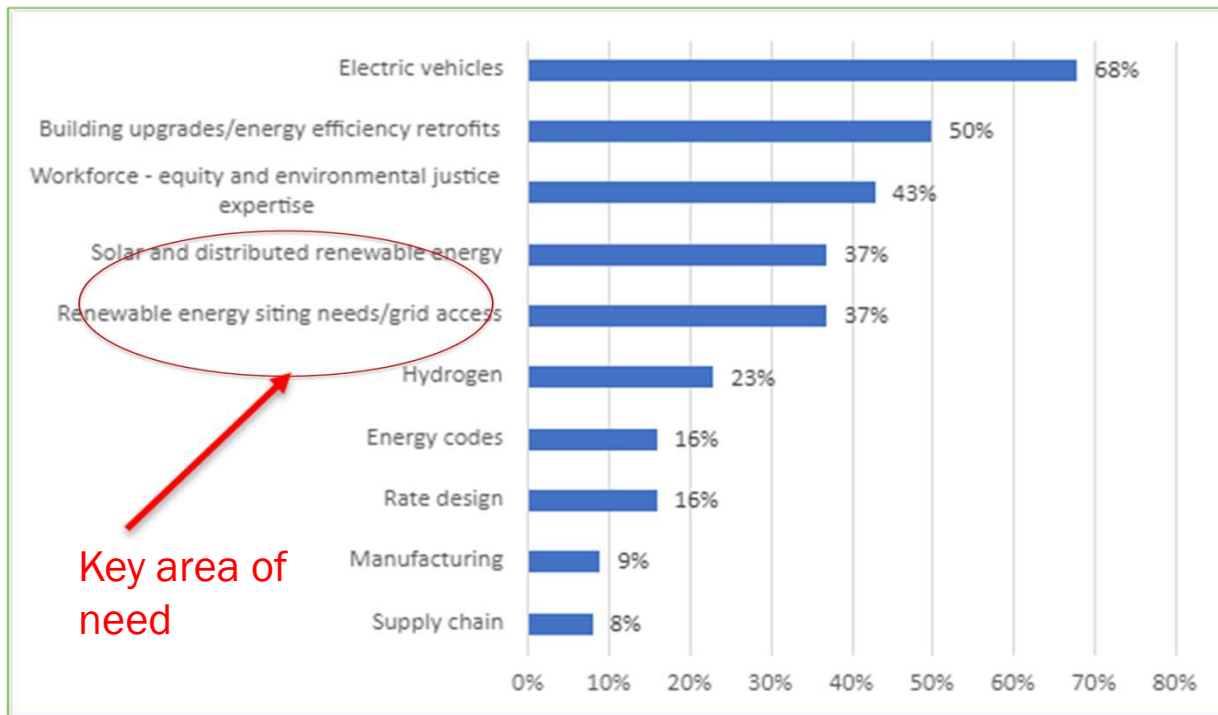
National Survey of Attitudes of Wind Power Project Neighbors



What DOE is hearing: Siting is a top priority for states

As a result of the EERE/NREL-led state and local listening sessions, it was found that siting is a top priority for states.

Poll: What are your top priorities for BIL Implementation?



Source: Poll of participants during the state listening session

What DOE is hearing from State Energy Offices

EERE is continuing to conduct stakeholder engagement with State Energy Offices, state extension programs, related associations, and clean energy developers.

What we have heard:

- Local governments often lack the resources (time, staffing, funding, information, expertise) needed to develop renewable energy siting strategies and policies, training programs, and permitting processes.
- Increasingly, States and extensions are being asked to play a role to assist Local Governments, by providing technical support to local entities who are making permitting decisions and convening stakeholders.
- Performing this role requires that States expand technical capacity and training offerings on a suite of renewable energy topics such as planning and zoning, environmental permitting, land use competition, decommissioning, and innovative siting approaches.
- EERE has heard that some states are interested in providing guidance and technical assistance to local governments, and we know they are one of the most trusted entities for local governments.

What DOE is hearing from State Energy Offices

Based on this engagement, EERE has been able to better understand the challenges that states are facing related to siting and the initial interest in creating programs at the state level to address these issues.

Feedback from State Energy Offices include:

- We could offer much needed technical assistance to local governments on renewable energy siting issues if had we funding and capacity.
- We would like to develop unique siting solutions in our state and learn from others states how to do so.
- We would like to replicate Minnesota's community engagement program and the template solar resources for local governments in our state.
- Our state program to provide technical assistance to local governments on clean energy has been successful but we need more resources to scale this program.
- Our existing program which provides information via interactive webinars to local officials, landowners, has been extremely impactful. This is the number one barrier to deployment renewables. However, the program is not adequately funded and more work needs to be done.

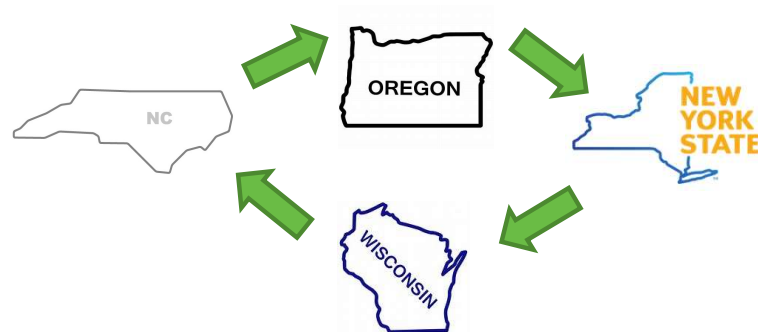
(Quotes above are paraphrased and
anonymous)

New EERE led siting workshop series for States

New Workshop Series: This will be a monthly or bimonthly series that cycles through individual siting topics. The topics and content is selected based on priorities identified by SEOs. Stay tuned for launch!

Objectives include:

- Introduce state energy offices (SEOs) to other SEOs, key resources, experts, and programs designed to remove barriers to large-scale renewable energy siting.
- Promote peer learning between SEOs and encourage continued engagement among stakeholders on renewable energy siting topics.
- Enable DOE/EERE learn more about the siting challenges that SEOs and their constituents are facing and track interest from workshop participants on priority topics and opportunities for further engagement.



Siting workshop series for States

Siting Workshop Series Topics: The topics are based on feedback from State Energy Offices and polling of priority areas with NASEO. More topics to come!



Creating a Siting Program at the State Level

Below are a few topics a State may consider when creating a new siting program at the State level to assist local governments, allow for engagement with multiple local governments, and address very localized needs.

Tools and Resources: Developing new resources, including those based on DOE resources and adapted to the State's unique needs in the form of ready to use templates/models/resources.

Stakeholder Engagement and Training: Planning for and conducting stakeholder outreach and engagement, and developing training programs on the new resources.

Additional Programmatic Support: How to make the first two areas as successful and impactful as possible, and improve the siting process at the state and local level.

Tools and resources

A State siting program could include developing resources adapted to the state's unique needs in the form of ready to use templates/models/resources.

This may include the following categories and examples:

- **Planning/Zoning:** High resolution resource assessment maps, template zoning laws for a specific clean energy technology, template comprehensive laws, utility hosting capacity maps
- **Permitting:** Permitting checklists (and/or adoption of Solarapp+)
- **Property Tax:** Tax assessment calculators or guides (e.g. Payment in Lieu of Tax calculator)
- **Environmental Review:** Reference guides and template forms for state processes such as environmental reviews for State Environmental and/or Agricultural Agencies.
- **Municipal Procurement:** Template municipal procurement documents (e.g. for brownfields, landfills, and underutilized lands)
- **Technology-Specific State Guidebooks** (e.g. compilation of resources by technology type)
- **Additional Resources as Identified:** Template Community Benefit Agreements/Host Town Agreements, public facing documents for siting timelines (e.g. for public comment periods).

Stakeholder engagement and trainings

A State siting program could include planning and conducting stakeholder outreach and developing training programs on the new resources.

This may include:

- **Roundtables and Forums:**
 - **Planning roundtables and forums with key stakeholders** (e.g labor unions, tax assessment community, first responders, code officials, clean energy developers, environmental groups) to better understand the siting, permitting, and planning needs for each technology and to be able to tailor the new resources.
- **Workshops and Training Programs:**
 - **Developing the training materials and developing the workshops**, which may cater to: planning and zoning officials, first responders, code enforcement officers.
 - **Certifying the courses** with other State agencies for State training accreditation and working with additional local partners to increase training access.
- **Community-based Programs:**
 - Creating new programs to provide education, training, resources to public officials which can increase awareness and adoption of resources, as well as strengthen relationships in communities.
 - A few examples include Michigan's [Catalyst Communities](#) & New York's [Clean Energy Communities](#).

Additional programmatic support

A State siting program can also include additional initiatives to make the first two areas as successful and impactful as possible and improve the siting process at the State level.

This may include:

- **Establishing State-led Technical Assistance Programs:** to help State officials provide 1 on 1 TA to local officials to assist with implementation of the developed resources.
- **Creating New Mechanisms and Incentive Programs** to support the adoption of clean energy technologies in order to achieve State energy goals:
 - Help on creation of incentive programs including how to: support solar adoption in LMI communities, and support innovative siting approaches (e.g. agrivoltaics).
 - Help on evaluating clean energy solicitations to prioritize community engagement.
- **Improving Communication:** creation of external facing resources to communities including developing new websites and materials.

Example: NYSERDA's clean energy siting team

Goal: To ease the implementation of clean energy technologies by providing technical assistance and support at the local level to municipal officials.

1. Resource Development

- Resources well vetted, supported by industry partners and stakeholders
- Based off needs from the community and local officials
- Format is in easy-to-use guides and templates, save time and resources

2. Community Outreach

- Educational component is requested from municipalities
- Designed a strategy to visit every community within a limited time
- Relationship development is key: communities experienced multiple technologies, outreach gave insight on what resources we needed to develop next
- Developed multiple ways to reach local officials (extension programs, in person trainings, online webinars, conference partnerships with local associations)

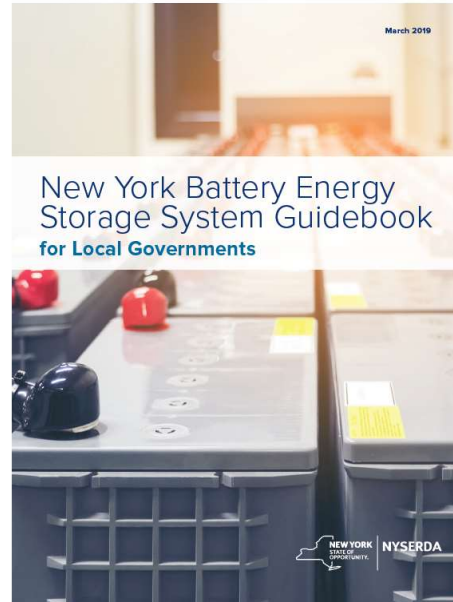


Image shows outreach in one year to local governments in NYS

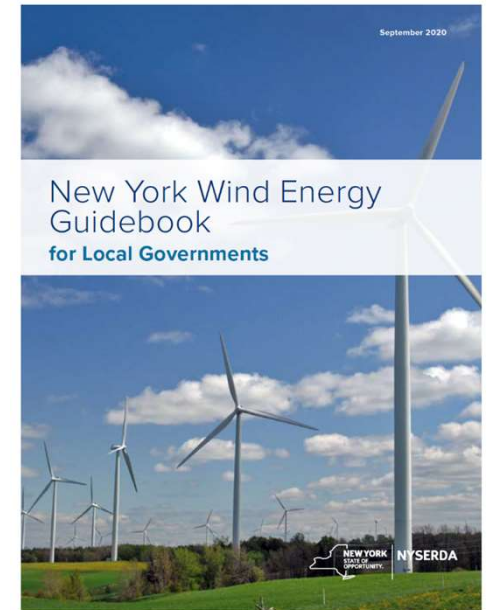
Example: NYSERDA's Siting Guidebooks



- Chapter 1 - Solar PV Permitting and Inspecting in NYS
- Chapter 2 - Roof Top Access and Ventilation Requirements
- Chapter 3 - State Environmental Quality Review (SEQR)
- Chapter 4 - NYS's Real Property Tax Law § 487
- Chapter 5 - Solar Payment-In-Lieu-of-Taxes Toolkit
- Chapter 6 - Using Special Use Permits and Site Plan Regulations
- Chapter 7 - Solar Installations in Agricultural Districts
- Chapter 8 - Landowner Considerations for Solar Land Leases
- Chapter 9 - Decommissioning Solar Panel Systems
- Chapter 10 - Model Solar Energy Local Law



- Chapter 1 - Model Battery Energy Storage Local Law
- Chapter 2 - Battery Energy Storage Model Permit
- Chapter 3 - Battery Energy Storage Inspection Checklist



- Chapter 1 - Wind Model Law
- Chapter 2 - Frequently Asked Questions
- Chapter 3 - Article 10 Explained

Example: NYSERDA “one stop shop” website for local governments

Clean Energy Siting for Local Governments

[Battery Energy Storage System Guidebook](#)

[Solar Guidebook](#)

[Wind Energy Guide](#)

[Article 10](#)

[Technical Assistance and Workshops](#)

[Clean Energy Siting Email List](#)

Suite of resources and workshops available here

Clean Energy Siting for Local Governments

NYSERDA offers several resources to help local governments understand how to manage responsible clean energy development in their communities. These resources include step-by-step instructions and tools to guide the implementation of clean energy, including permitting processes, property taxes, siting, zoning, and more. If you have a question on clean energy siting in your community, or need help with a chapter of the Guidebook, email cleanenergyhelp@nyserda.ny.gov and we'll respond to you within 24 hours. For more hands-on support, learn more about our [free training and technical assistance opportunities](#).

Stay up-to-date with the latest about Clean Energy Siting. [Join our email list](#) for local government officials.



Thank You!

Kendra Kostek

Please contact me at
Kendra.Kostek@ee.doe.gov



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

2022 STATE ENERGY PROGRAM NATIONAL TRAINING FORUM
LOCAL GOVERNMENT SESSION:
MICHIGAN'S COMMUNITY PROGRAMS

Julie Staveland, Manager
Sustainability Section

AGENDA

- Communities and Energy in Michigan
 - Community Energy Management (CEM) Program
 - Energy Planning & Policy grant with University of Michigan
 - Phase I 2019-2021:
 - MiLES, case studies, webinar series, FAQs
 - Zoning Database
 - 1-on-1 Technical assistance/meetings/presentations
 - 2/6/20 meeting with Communities
 - Phase II 2021-2023:
 - Continuation of Phase I projects
 - Train the Trainer
 - Catalyst Leadership Circle
 - Energy Fellows
 - Catalyst Communities / Michigan Green Communities
 - UofM SEAS Project
- Q&A's

COMMUNITY ENERGY MANAGEMENT



- New Approach
 - Meet communities where they are, not all are in the same place
 - Remove “middleman”
 - Expand statewide
- Energy Management Technical Assistance & Funding
 - Local Governments/Tribes
 - Community Non-Profits





ENERGY PLANNING & POLICY

- 2019: Energy Questionnaire to Local Jurisdictions
- 2020: Zoning curation
- 2021: Catalyst Communities, Solar Guide
- 2022: Leadership Circle, Renewable Energy Academy
- 2023: MI REDI, Leadership Circle & Renewable Energy Academy 2.0



ENERGY QUESTIONNAIRE 2019

- Every city, county, township, village in MI (1,856 jurisdictions) contacted
 - Received 1,350 responses, 73%
- 2 public reports sent to local officials
- Report with recommendations
 - MGC, low-income, UP (rural) communities have different capacities and interests, and need different things
- Informs CEM program and Catalyst Communities programming.
- Plan is to re-run in 2023 and analyze changes in responses, adjust programming as needed.

2019 Michigan Local Energy Survey (MiLES)

Q1. What type of jurisdiction do you represent?

County
 Township
 City
 Village

What is your jurisdiction's name? _____

(If not a county) In what county is it located? _____

What position do you hold in the jurisdiction? _____

Q2. Thinking overall about topics related to energy, how relevant would you say the following issues have been or currently are for your jurisdiction's government?

	Not at all relevant	Not very relevant	Somewhat relevant	Very relevant	Don't know
Regulating placement of energy infrastructure (e.g., solar panels, wind turbines) on <u>private property</u> in your community	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Siting energy infrastructure on <u>public property</u> in your jurisdiction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Planning for electric vehicle (EV) infrastructure (e.g., charging stations)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Improving energy efficiency for local businesses (including agriculture) or residents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reducing your jurisdiction government's use of fossil fuels (e.g., in its electricity use, vehicle fleet, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(If you answered "not at all relevant" or "don't know" in all five topics, please skip to Q24 on page 5) →

Q3. (If you answered any "relevant" response in Q2) Again, thinking overall about topics related to energy, to what extent would you say your jurisdiction has considered or enacted any plans and/or policies regarding energy issues?

	Not at all	Very little	A moderate amount	Extensively	Don't know
Considered various plans / policies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Developed specific plans / policies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Implemented those plans / policies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(If you answered "not at all" considered or if you "don't know," please skip to Q24 on page 5) →

If you have any questions, please contact: closup@umich.edu / (734) 647-4091

MICHIGAN ZONING DATABASE

- 2019 first pass inventory of all jurisdictions zoning
 - Online, free to access
 - Identify if mention wind, solar, EVs
- 2021 update
 - Solar zoning up 47%
 - Wind zoning up 8%
- 25% still silent on renewables
- Continue to update annually through DOE Solar Energy Technology Office award

The screenshot shows the website for the Michigan Zoning Database, hosted by the Department of Environment, Great Lakes, and Energy. The page features a navigation menu with 'ABOUT', 'CLIMATE', and 'ENERGY' tabs. The main heading is 'Zoning for Renewable Energy Database'. Below this, there is an introductory paragraph about the importance of zoning for renewable energy. The page includes four interactive map components: 'Zoning database', 'Zoning jurisdiction map', 'Wind energy zoning map', and 'Solar energy zoning map'. A section titled 'Michigan Zoning Database' provides a description of the resource and lists key information users can find, such as zoning ordinances, project locations, and government levels. Contact information for Dr. Sarah Mills is also provided. The footer contains the Michigan.gov logo, FOIA information, and copyright details for 2021.

ONLINE REPOSITORY

Community Impacts of Renewable Energy



Community Solar

Community solar is a solar energy system that generates renewable energy and is shared by multiple subscribers in a community. Learn more to find out about solar power in your community.



Clean Energy in Michigan Series

The Clean Energy in Michigan Series provides case studies and fact sheets answering common questions about clean energy projects in Michigan.



Frequently Asked Questions

Visit Frequently Asked Questions, updated regularly, to learn what others have been asking about the community impacts of renewable energy.

Planning & Zoning Guidance

City Authority	Zoning Ordinance Section	PG&E Ordinance Available	Renewable Energy Zoning Ordinance			
			Utility Wind	Small Scale Wind	Utility Solar	Small Scale Solar
City of Ann Arbor		Yes	Yes	Yes	Yes	Yes
City of Dearborn		Yes	Yes	Yes	Yes	Yes
City of Farmington Hills		Yes	Yes	Yes	Yes	Yes
City of Farmington		Yes	Yes	Yes	Yes	Yes
City of Farmington Hills		Yes	Yes	Yes	Yes	Yes
City of Farmington Hills		Yes	Yes	Yes	Yes	Yes
City of Farmington Hills		Yes	Yes	Yes	Yes	Yes
City of Farmington Hills		Yes	Yes	Yes	Yes	Yes
City of Farmington Hills		Yes	Yes	Yes	Yes	Yes
City of Farmington Hills		Yes	Yes	Yes	Yes	Yes

Zoning database »

Zoning for Renewable Energy Database

In a unique project, EGLE and University of Michigan's Graham Sustainability Institute have developed the Michigan Zoning Database, a searchable source of information of municipal ordinances.



Solar Resources

Guidance on incorporating renewable energy in to community plans and ordinances for solar energy.



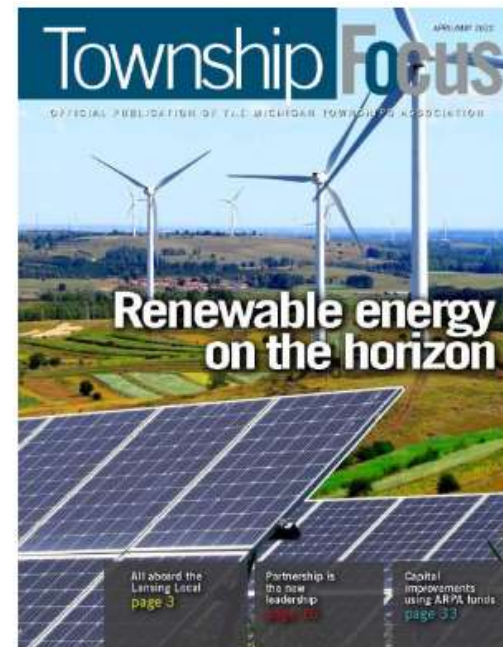
Wind Resources

Guidance on incorporating renewable energy in to community plans and ordinances for wind energy.

- Curation of planning/zoning guidance
- Creation of case studies / FAQs
 - 18+, written by experts, students across the state
- Planned: guide for energy storage, templates for solar overlay district

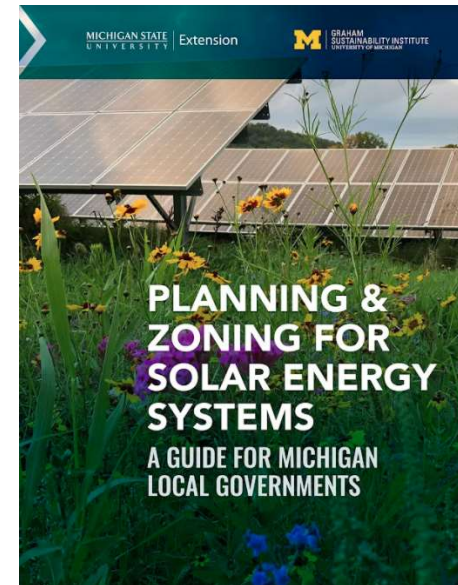
TECHNICAL ASSISTANCE & UTILIZING THE NETWORK

- Offered up individual presentations, at request of local government
 - To help understand pros/cons; fact/fiction
- Special issue of MI Planning & Zoning News (PZN) issue
 - Mailed to all Jurisdictions to advertise webinars on zoning
- Annual Meeting presentations, articles in magazines for
 - MI Association of Planning
 - Michigan Townships Association
- Next: Direct mail to planning commissions, continued work with MGC



SOLAR GUIDE & RENEWABLE ENERGY ACADEMY – TRAIN THE TRAINER

- Oct 2021: MSU-Extension and UM release guidebook
 - Mailed to all 1,856 jurisdictions, advertising training series
- May: MSUE Guidebook training
- June: MAP webinar for attorneys, planners
- June: Bus tour of wind/solar
- July/August: Deep-dive, “bring your ordinance” workshops
- Planned: working with Regional Planning Offices for reprise geared to specific regions



CATALYST COMMUNITIES

- Multi-tiered approach to providing communities with the resources and actions local governments can take towards a just transition to decarbonization.
 - Inclusive & Lasting Impacts
 - Energy Demand Management
 - Renewable Energy
 - Materials Management
 - Water
 - Mobility
 - Land Use
 - Resilience & Adaptation
 - Health
 - Food
- Online Resources
- Webinars
- Workshops
- Accelerators



Resources



Energy Efficiency and Renewable Energy



Improving Health Outcomes



Inclusive & Lasting Impacts



Land Use



Materials Management



Mobility



Residents



Resilience & Adaptation



Water

Training Opportunities

Webinars

Michigan has 1,856 local jurisdictions, ranging from the big cities to the small villages and townships, and each community may have different resources, staffing or departments they manage. Catalyst Communities webinars and events are free to communities, recorded and then posted online for future viewing, which takes out the constraints of time, travel and cost for communities.

[Catalyst Communities Webinars >](#)

Workshops

Catalyst Communities workshops are cohort based opportunities for Michigan communities to work together on a common, specific topic with the guidance of a facilitator.

[Catalyst Communities Workshops >](#)



CLEAN ENERGY & ENERGY MANAGEMENT WEBINAR SERIES

CLIMATE AND ENERGY / ENERGY / COMMUNITIES

Community Energy Management

CLEAN ENERGY & ENERGY MANAGEMENT WEBINAR SERIES

These webinars feature local governments from across the state--both large and small--sharing with their peers their successes and challenges in improving the energy efficiency of their buildings or moving toward more renewable energy.

Upcoming Webinars:

- **Clean Energy Financing Through Michigan Saves**
Thursday, June 17, 2021: 11:00am - 12:00pm
In this session, learn about the nation's first nonprofit green bank, Michigan Saves. Originally established through a Michigan Public Service Commission grant, this now independent bank provides energy consumers with low-interest financing for their efficiency improvements through partnerships with private-sector lenders. Hear the details from a Michigan Saves expert as well as real community experiences from local municipalities.
[Register](#)
- **Sustainable Wastewater Infrastructure and Energy Savings with SWIFT**
Upcoming in Mid-July
The Department of Energy's Sustainable Wastewater Infrastructure of the Future (SWIFT) Accelerator is partnering with the state of Michigan to help reduce energy consumption and adopt next-generation technologies at local wastewater treatment facilities across the state. Learn about the various opportunities provided by SWIFT, including a new Wastewater Energy Management Toolkit, to help municipalities engage with their water utility and find ways to save energy.
[Register](#)
- **EPA Resources for Local Governments**
Wednesday, August 11, 2021: 11:00am - 12:00pm
The Local Energy and Environment Program from the Environmental Protection Agency (EPA) offers a multitude of tools and publications to help local governments reduce greenhouse gas emissions, improve energy efficiency, and explore renewable energy options. In this session, hear from EPA representatives as they walk through key resources for local governments to help formulate cost-effective, energy saving strategies and achieve cross-cutting community benefits.
[Register](#)
- **Experiences with Michigan Community Solar**
Upcoming in September
Community solar is a hot topic in Michigan, but do you know what it actually entails? In this session, learn about the various definitions of community solar, what's been done in Michigan thus far, and how low-income community members can benefit. Also hear from experts who helped establish some of the state's early community solar projects as they share their experiences and lessons learned.
[Register](#)

Past Webinars:

- **EGLE's Energy Efficiency Programs for Communities**
[Recording](#) | [Slides](#)
- **The Michigan Energy Code Adoption Process**
[Recording](#) | [Slides](#)
- **Energy Benchmarking for Municipal Facilities**
[Recording](#) | [Slides](#)
- **Using EZMT Online Mapping to Plan for Clean Energy**
[Recording](#) | [Demo](#) | [Slides](#)
- **Conducting Energy Audits on Municipal Facilities**
[Recording](#) | [Slides](#)
- **Facilitating Community-wide Clean Energy Improvements Using PACE Financing**
[Recording](#) | [Slides](#)
- **Helping Facilitate Rooftop Solar in Your Community**
[Recording](#) | [Slides](#)
- **Introduction to Planning & Zoning for Wind and Solar**
[Recording](#) | [Slides](#)
- **Planning & Zoning for Utility-Scale Wind**
[Recording](#) | [Slides](#)
- **Planning & Zoning for Utility-Scale Solar**
[Recording](#) | [Slides](#)
- **Financing Energy Efficiency Improvements Using Energy Savings Performance Contracts**
[Recording](#) | [Slides](#)

www.Michigan.gov/energy

ACCELERATORS

- Rocky Mountain Institute (RMI)
 - Clean City Cohort, a cohort of communities working together on common energy issues:
 - Solar Deployment
 - Energy Labeling Programs
 - Rental Housing Energy Efficiency Standards



SOLSMART

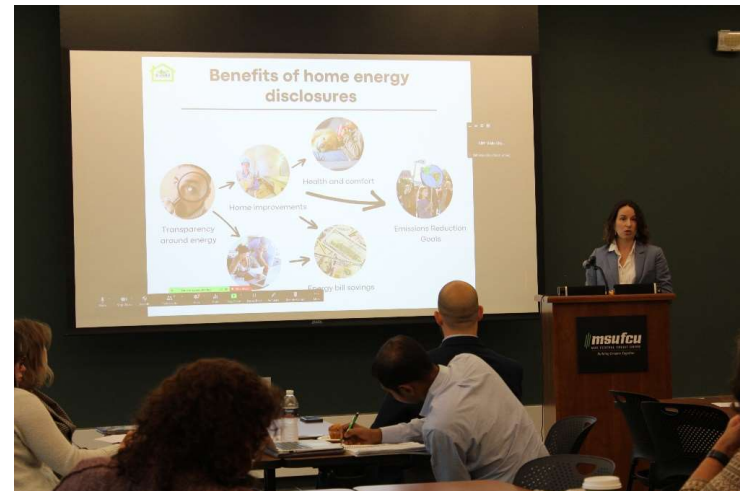
- SolSmart is a national designation program designed to recognize communities that have taken key steps to address local barriers to solar energy and foster the growth of mature local solar markets.
- Partnership with the Solar Foundation to help communities achieve SolSmart designation.



CATALYST LEADERSHIP CIRCLE & FELLOWSHIP

- Origin: Feb 2020 “Divide & Conquer” Gathering
- Now, CLC = “Silver and Gold” MGC communities
- Networking, Divide & Conquer, 2-way dialogue with State
- Summer graduate fellowship program
 - Work directly on project for host community
 - Make template for use in other communities

- Planned: mentoring other communities



MICHIGAN RENEWABLE ENERGY DEVELOPMENT INITIATIVE (MI REDI)

- UofM School for Environment and Sustainability (SEAS) Graduate student 18-month project
- Goal: Increase proactive zoning; what else do you need?
 - Inspiration from Redevelopment Ready Communities
- Interviews with local governments, developers
- Piloting in 2 communities, in the SW and UP, partner with local governments to:
 - develop effective community engagement strategies
 - provide recommendations for wind or solar projects based on land and resource assessment
 - create zoning ordinances based on site recommendations and community input
- Draft Program guide
 - Planning guides and funding for planning process
 - Technical assistance on resource assessment, translating into zoning guide
- Planned: Awaiting final report; will evaluate to determine launch of full program



QUESTIONS?

Julie Staveland

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