

# Energy Survey Overview and Clean Energy in the U.P.

Sarah Mills, PhD

UP Energy Task Force Meeting
October 7, 2020

### **EGLE Grant**

## Provide technical assistance to <u>local governments</u> on planning / zoning / policymaking for clean energy

Don't re-create the wheel
Start with manageable scope
Utilize network

















### Year 1 Activities

- Survey of local governments
- Database of zoning for energy
- Curated repository of templates, guidance
  - Create new content as needed
- Answers to FAQs, case studies
- Real-time consultations
  - With local governments
  - At conferences
- Contribute to emerging clean energy policy discussions



### The Survey

- Goal: better understand local officials' perceptions of the costs, benefits, and likelihood of engaging in future energy management activities to inform EGLE activities
- Sent to 1,856 local units
  - City (mayor + manager or clerk)
  - County (board chair + administrator)
  - Township (supervisor + manager or clerk)
  - Village (president + manager or clerk)
- 1,350 responses (72.7%)

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENER	GΥ		State, and Urban Police Ford School of Public Policy	<u>Y</u>	
2019 Michigan Loca	l Ener	gy S	urve	/ (MiL	.ES
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 relevar jurisdiction's government?	Not at all	Not very	Somewhat	Very	Don
Regulating placement of energy infrastructure (e.g., solar	relevant	relevant	relevant	relevant	knov
panels, wind turbines) on <u>private property</u> in your community					
Siting energy infrastructure on <u>public property</u> in your jurisdiction					
Planning for electric vehicle (EV) infrastructure (e.g., charging stations)					
Improving energy efficiency for local businesses (including agriculture) or residents					
Reducing your jurisdiction government's use of fossil fuels (e.g., in its electricity use, vehicle fleet, etc.)					
(If you answered "not at all relevant" or "do	on't know" in <u>all fiv</u>	<u>ve</u> topics, pleas	e skip to Q24 on	page 5) ——	$\rightarrow$
Q3. (If you answered any "relevant" response in Q2) Again, thinking your jurisdiction has considered or enacted any plans and/c				extent would yo	ou say
	Not at	Very	A moderate		Don
Considered various plans / policies	all	little	amount	Extensively	knov
Developed specific plans / policies					
<u>Implemented</u> those plans / policies					
(If you answered "not at all" considered	or if you "don't kr	now," please sk	ip to O24 on pag	e 5)	>

### Relevant products

- Questionnaire, data tables (by region, pop size, jtype) online
  - http://closup.umich.edu/miles
- 2 public reports
  - Intergovernmental collaboration (9/30)
  - Everything else (10/7—TODAY!)
- 2 internal white papers
  - MILES Breakdowns / recommendations for UP, low-income, and MGC
  - Mining of past data MPPS data

### The Center for Local, State, and Urban Policy

Michigan Local Energy Survey September 2020

Gerald R. Ford School of Public Policy >> University of Michigan

#### Intergovernmental collaboration on sustainability and energy issues among Michigan local governments

y Natalia Fitzpatrick, Dalora Homan, and Sarah Mills

This report presents the opinions of Michigan's local government leaders regarding current and potential local government collaboration on a range of sustainability and energy policies. These findings are based on statewide surveys of local government leaders conducted in the Fall 2019 Michigan Local Energy Survey (MiLES), a special wave of the Michigan Public Policy Survey.

30 The Michigan Local Energy Energy (MLESS) in a common terror of 81 (LESS general symptom less generate context. Michigan conducted by the Center for Local, Essex, and Union Philippe (CLOSSIPE) and the Loveward of Michigan. The servery was but not by the Michigan Department of Environment, Genet Lokes, and Energy (RELL Meets Internation about the MLES, including a capy of the quantization, is available and not at the philippe particle Michigan Sequential Association for that fail 2014 MLES include country administration, beard when, and of other, they mayor, managen, and dorster, vilege presidents, messagens, and deletes, and transacting approximate, managens, and extraction to 320 particles are secured.

For more information, please contact: please-impositionich.edu/ (734) 647-4091



#### **Key Findings**

- Over a third (38%) of Michigan local governments report they are currently collaborating with other local governments on secondara incomwhile 36% do not collaborate on recycling.
- Intergovernmental collaboration on ported by the state's larger jurisdicts
- Even among Michigan's smallest jur rate, and only 18% have no interest i
- By region, recycling collaborations.
   Lower Peninsula (55%), and least co of jurisdictions). However, 43% of pursuing collaboration on recycling
- On other topics, relatively few local government collaborations on non-motorize green purchasing programs (7%), or she However, local government officials exing these opportunities, particularly for
- As with recycling, collaboration of by reported by larger local government than 30,000 residents among non-motorized or public transporting programs, and 8% on shared si 48% interested in doing so).

The Michigan Local Energy Survey (MiLES) Fall 2019 Data Tables

Back to the table of contents I See questionnaire for exact wording

communities with more than 10.000 Q4. Does your jurisdiction's government have a person or persons who are specifically responsible for addressing energy issues? (check all that apply)

l i		Jurisdiction Type				
1 2		County	Township	City	Village	Total
11	No, no one in the jurisdiction is specifically responsible for energy issues	47%	52%	49%	42%	50%
IE.	Yes, we have jurisdiction staff whose sole job responsibility is energy issues	2%	1%	4%	0%	1%
291	Yes, we have jurisdiction staff who have other job responsibilities in addition to handling energy issues	25%	6%	27%	11%	11%
eć	Yes, we have elected official(s) who have taken ownership of energy issues	5%	5%	3%	2%	5%
ha	We use external organizations or consultants on energy issues	5%	4%	10%	7%	6%
q	Don't know	2%	2%	1%	2%	2%
100	Not asked: Energy issues not at least considered in jurisdiction	22%	33%	11%	39%	30%

"Columns may sum to more than 100% due to ability to select multiple response options:

	Population Size						
	<1500	1500- 5000	5001- 10000	10001- 30000	>30000	Total	
No, no one in the jurisdiction is specifically responsible for energy issues	45%	54%	61%	51%	38%	50%	
Yes, we have jurisdiction staff whose sole job responsibility is energy issues	0%	1%	1%	4%	4%	1%	
Yes, we have jurisdiction staff who have other job responsibilities in addition to handling energy issues	4%	7%	17%	24%	45%	11%	
Yes, we have elected official(s) who have taken ownership of energy issues	3%	5%	8%	5%	6%	5%	
We use external organizations or consultants on energy issues	3%	6%	4%	14%	10%	6%	
Don't know	2%	1%	1%	1%	4%	2%	
Not asked: Energy issues not at least considered in jurisdiction	44%	27%	14%	11%	8%	30%	

"Columnz may zum to more than 100% due to ability to select multiple response options.

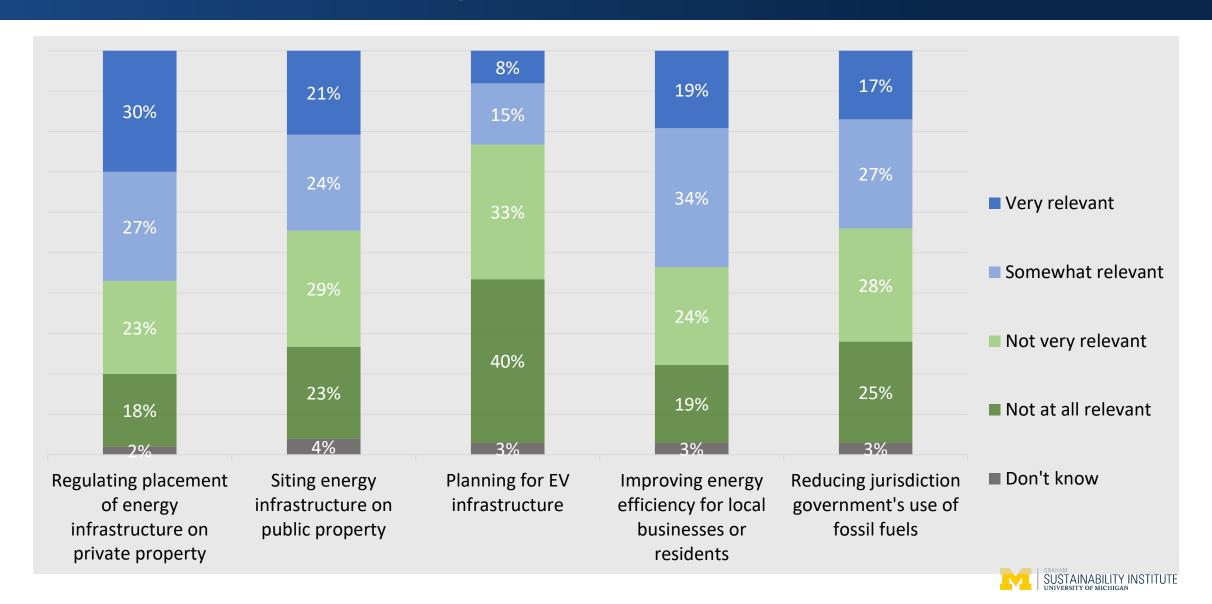
	Region of Michigan								
	Upper Peninsula	Northern Lower Peninsula	West Central Lower Peninsula	East Central Lower Peninsula	Southwest Lower Peninsula	Southeast Lower Peninsula	Total		
No, no one in the jurisdiction is specifically responsible for energy issues	47%	46%	44%	54%	52%	55%	50%		
Yes, we have jurisdiction staff whose sole job responsibility is energy issues	2%	1%	2%	1%	1%	1%	1%		
Yes, we have jurisdiction staff who have other job responsibilities in addition to handling energy issues	5%	4%	10%	9%	14%	19%	11%		
Yes, we have elected official(s) who have taken ownership of energy issues	4%	2%	5%	6%	5%	5%	5%		
We use external organizations or consultants on energy issues	6%	3%	5%	5%	6%	9%	6%		
Don't know	3%	1%	1%	3%	2%	1%	2%		
Not asked: Energy issues not at least considered in jurisdiction	37%	44%	35%	25%	24%	15%	30%		

"Columns may sum to more than 100% due to ability to select multiple response options

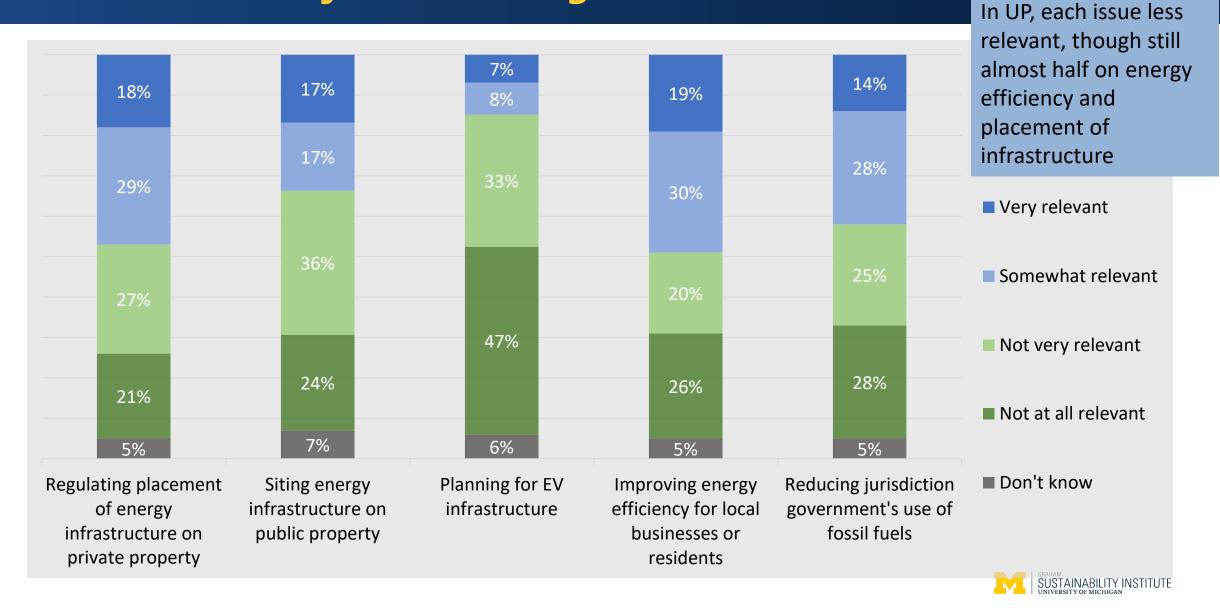
## **Key Findings from Energy Survey**



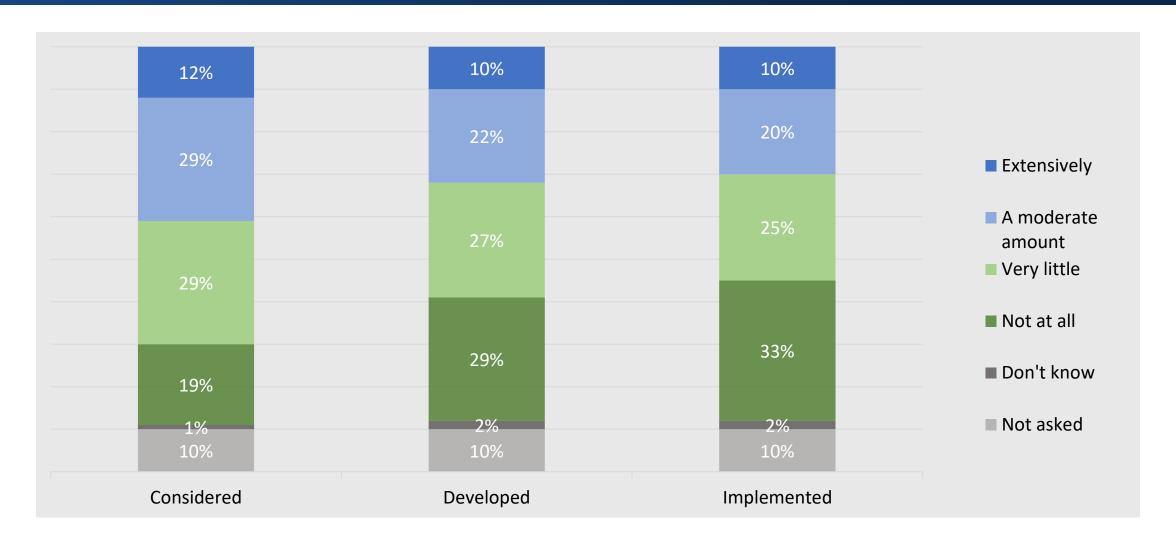
## How relevant are the following issues for your jurisdiction's government?



## UP: How relevant are the following issues for your jurisdiction's government?



### Status of energy planning / policymaking?





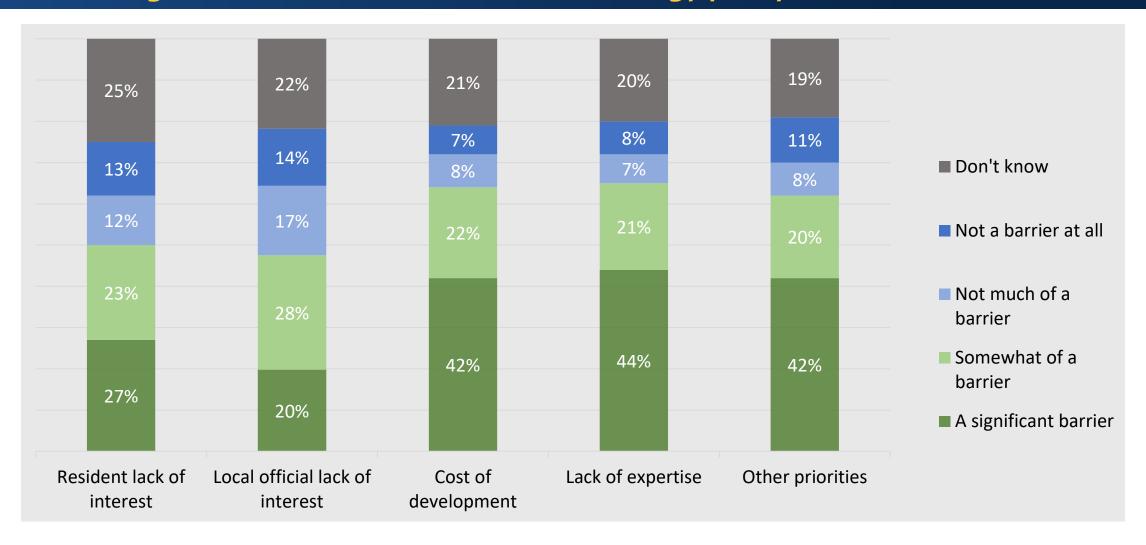
### UP: Status of energy planning / policymaking?





### What are the barriers to developing energy policies?

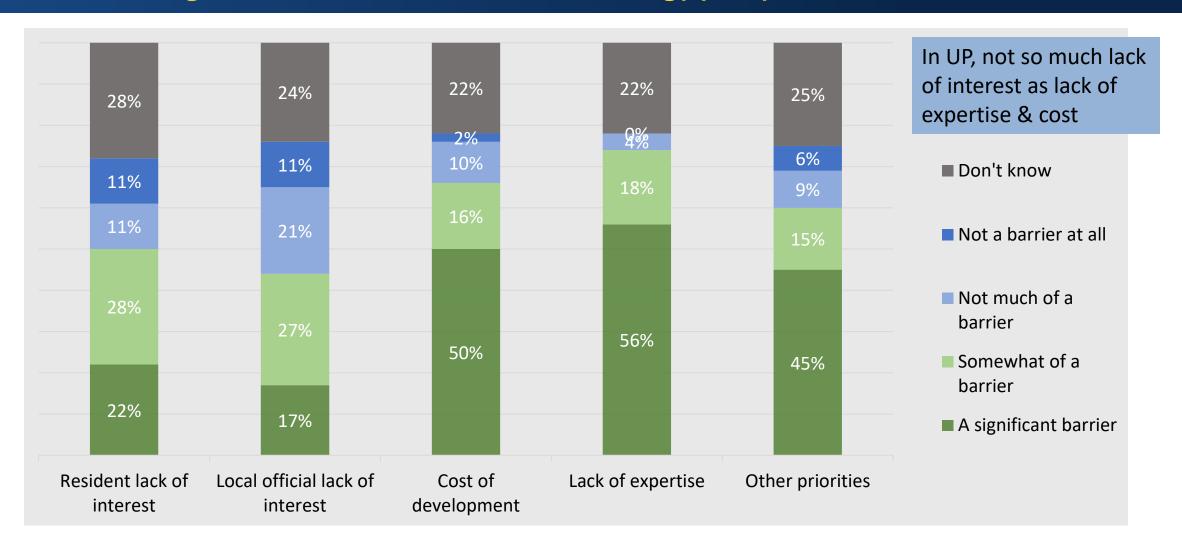
(among those who have not considered energy policy or feel it is irrelevant)





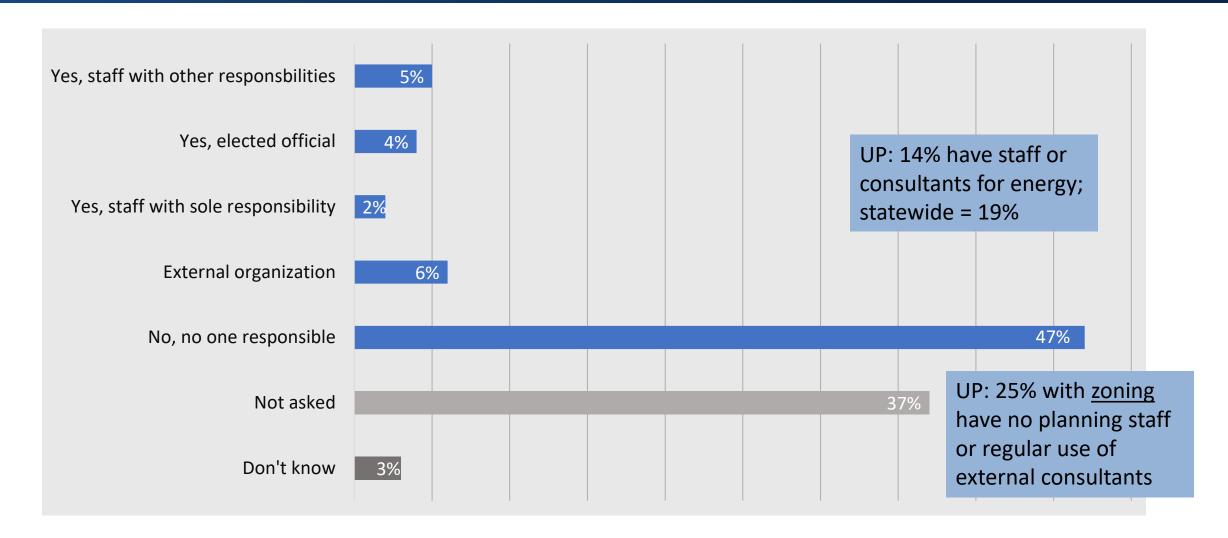
### UP: What are the barriers to developing energy policies?

(among those who have not considered energy policy or feel it is irrelevant)



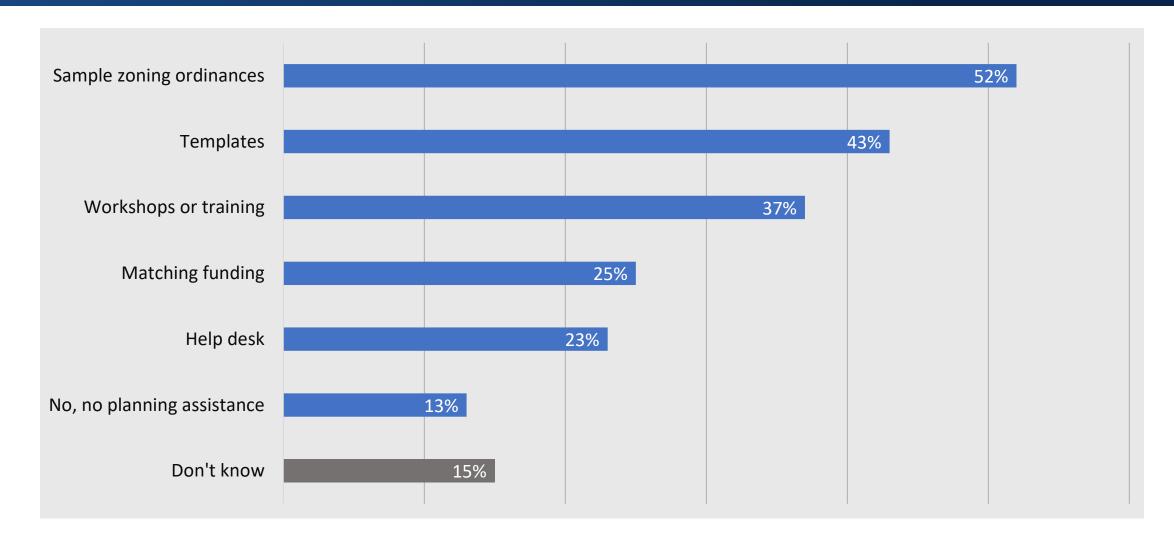


## UP: Is there a person specifically responsible for addressing energy issues?



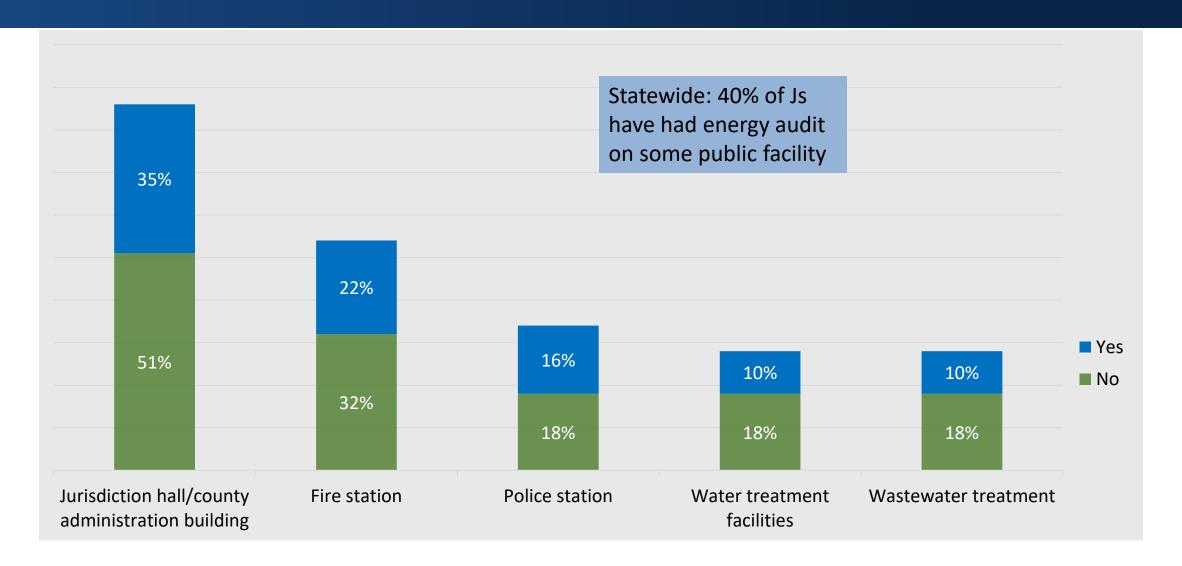


## UP: Would your jurisdiction take advantage of any of the following?



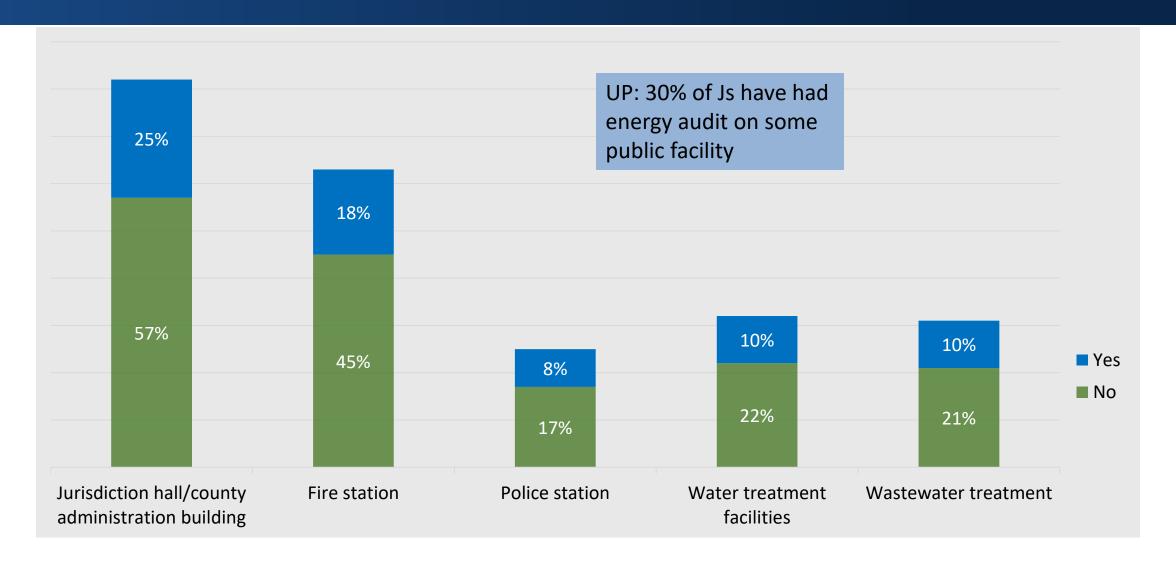


### Have energy audits been conducted...?





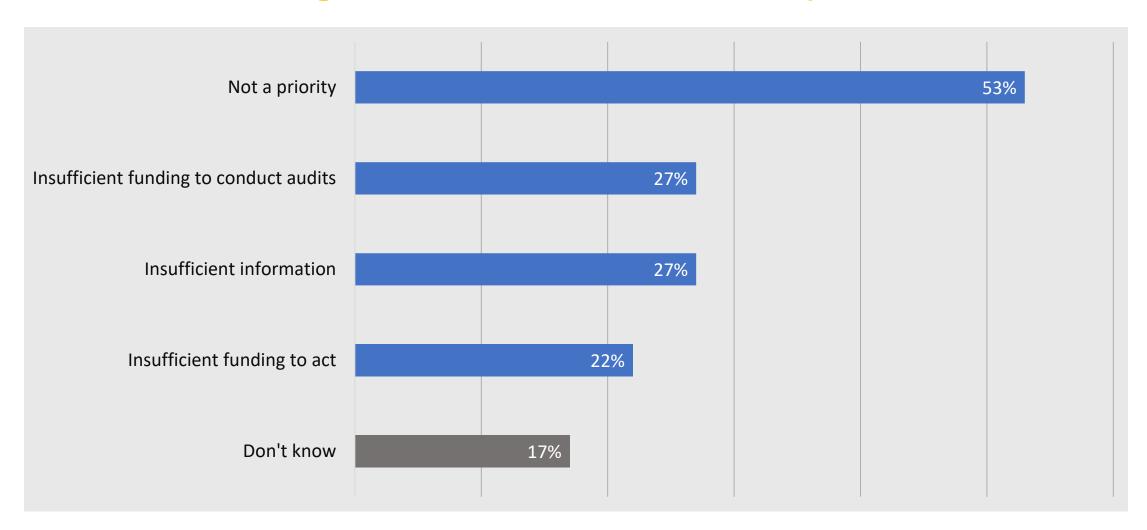
### UP: Have energy audits been conducted...?





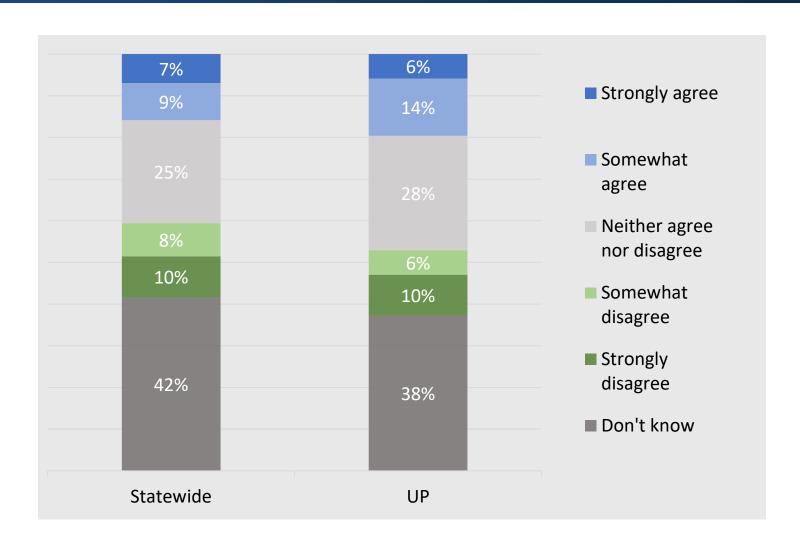
## UP: Why have energy audits not been conducted on public facilities?

(among those who have not conducted any audits)





## Do building inspectors in your jurisdiction struggle to enforce current energy codes?

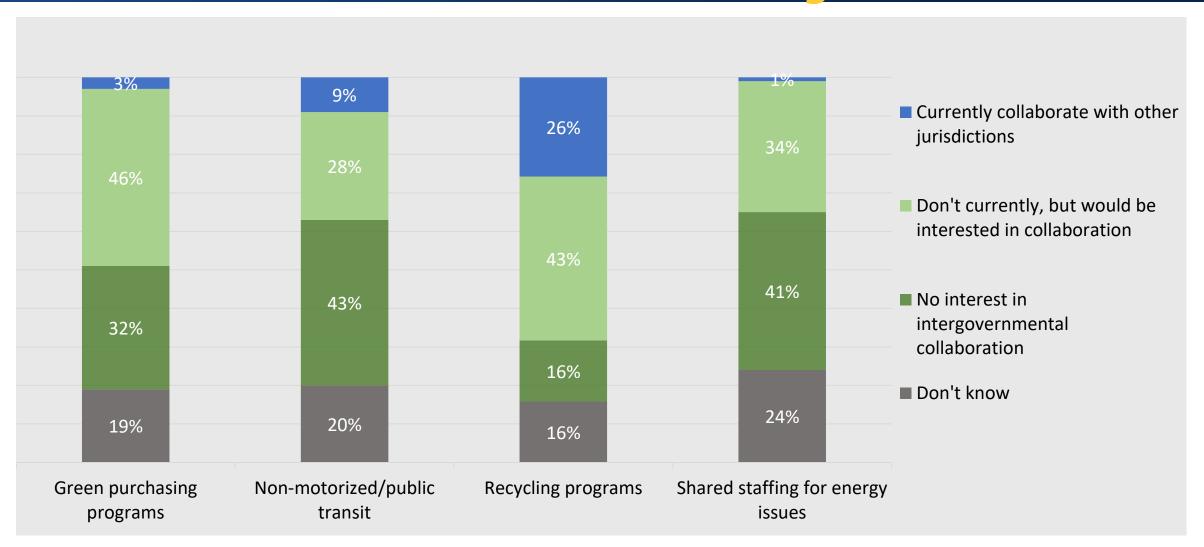


"Codes are too complex and don't always apply to the types of construction within our community."

"I think we have one building inspector shared by more than one county. Distance, budget, old buildings, and political will are obstacles for us. We would love to hire even a basic code enforcer. If we had a building inspector, I think they would struggle with the fuel mixes and independent nature of our public. "

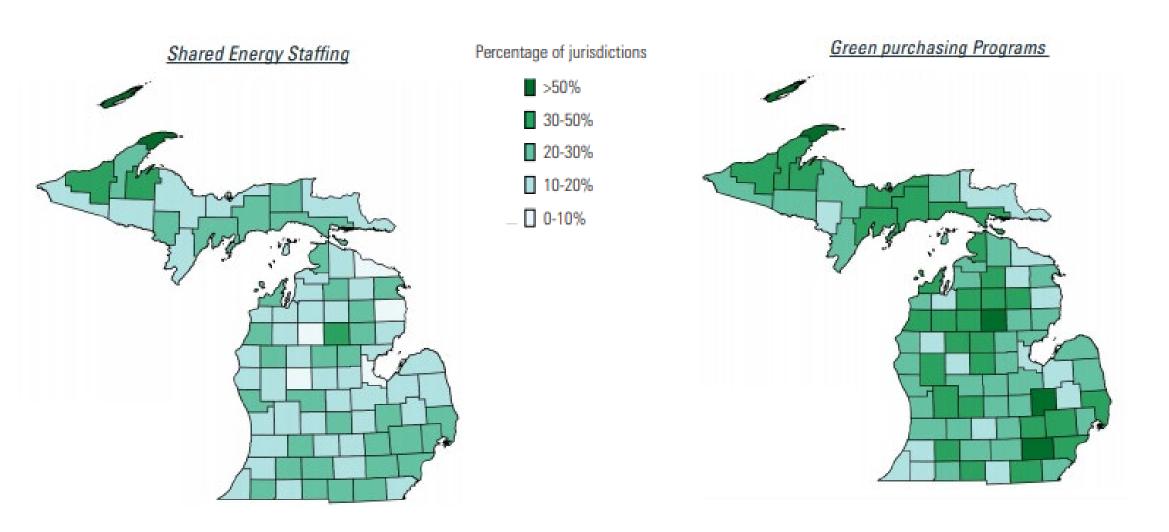


## UP: Which best describes your jurisdiction's collaboration on the following issues?



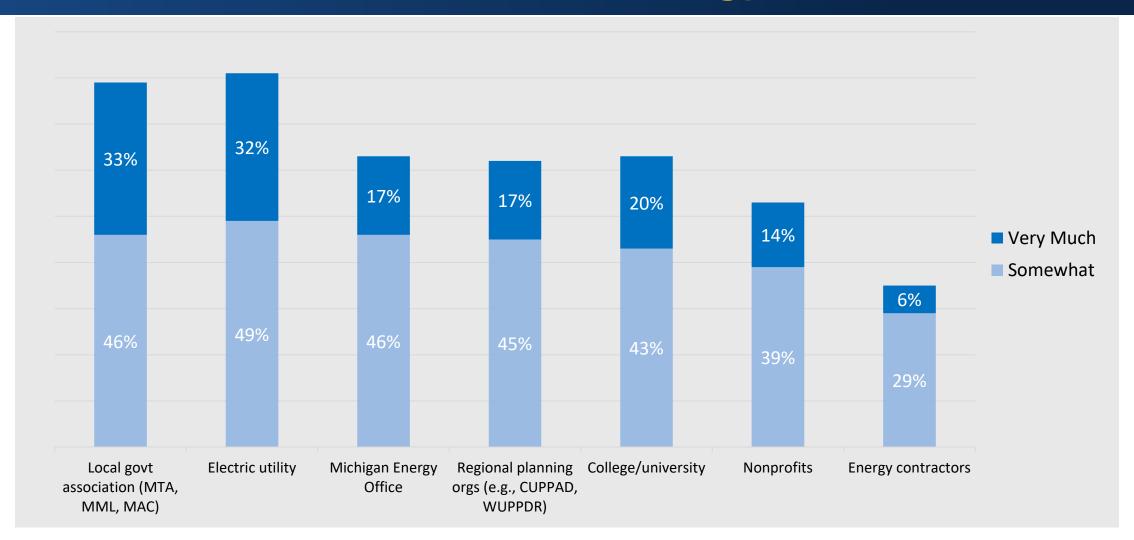


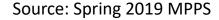
## UP: Jurisdictions with interest in (but not currently) collaborating





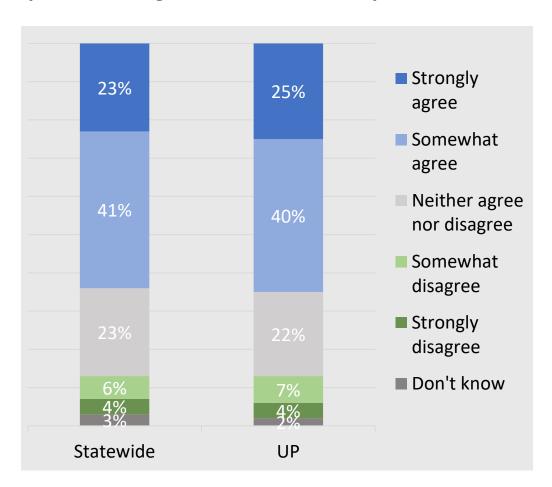
## UP: How much do you trust the following as a source of information on energy?



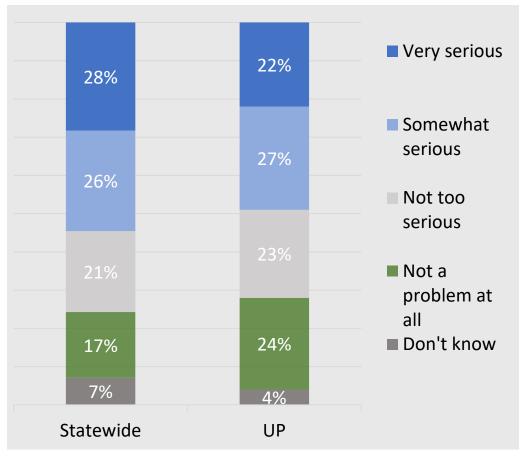


### UP: Environmental vs. climate message

### "Promoting <u>environmental sustainability</u> is an important aspect of local government leadership"



### "How serious of a problem is climate change?"





### Statewide Take-aways

- Meet communities where they are
  - Leading (Catalyst Communities), interested middle, those who are uninterested
- Use peer-to-peer sharing to convey opportunity for low-cost municipal action
  - Community Energy Management Webinar Series
- Partnerships key
  - Increasing collaboration
- Education on EVs



### **U.P. Specific Takeaways**

 Technical assistance esp. on community engagement, planning/zoning

- Opportunity for intergovernmental collaboration
  - Sharing staffing, green purchasing
- Messaging about environmental protection, economy really important



### So much more in survey...

- Benchmarking / energy use data
- Renewables on public lands
- Renewable energy goals
- EV infrastructure needs / local policy making

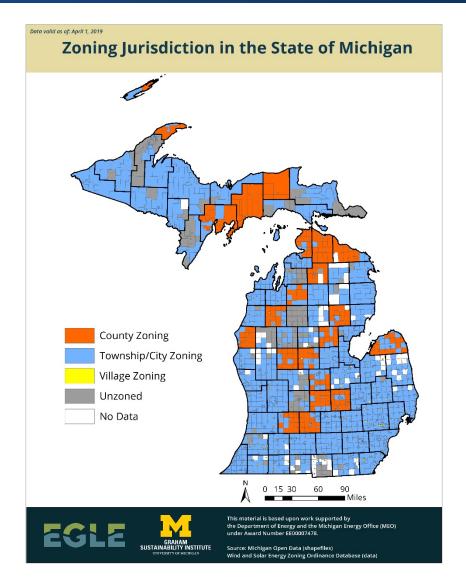
- Able to do specific analyses; just ask
  - http://closup.umich.edu/miles



### Resources for communities



### Michigan Zoning Database

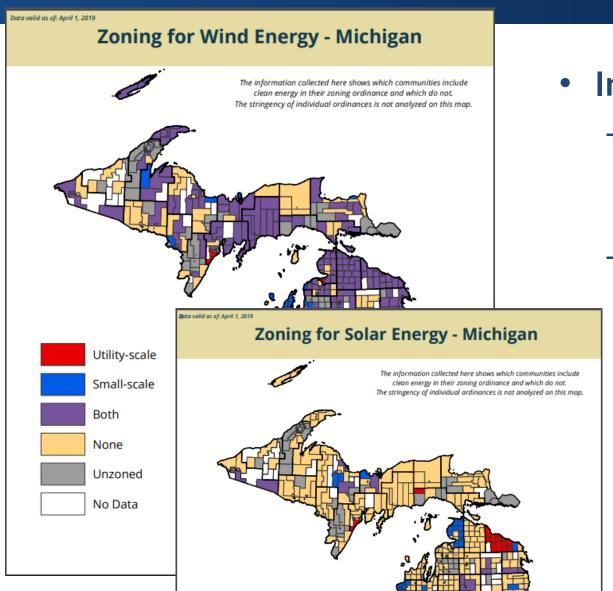


 Database of all zoning ordinances in the state; which have wind/solar content

- Help find peer communities
- Target outreach / technical assistance
  - Understand pros/cons
  - Proactively plan
- Available at <a href="https://www.michigan.gov/energy/">https://www.michigan.gov/energy/</a>



## Michigan Zoning Database



- In UP:
  - 57% of ordinances include wind
    - Some are out-of-date...
  - 6% include utility-scale solar9% include small-scale solar
    - Solar likely interpreted as accessory structure



### Planning and Zoning Resources

- Curated repository of templates, guidance
  - EGLE's Website
- Case Studies, FAQs
  - Brownfield solar
  - Economic impacts
- March-April 2020 issue of Planning & Zoning News

#### **Solar Resources**

Solar energy development is rapidly growing in Michigan as technology and price continue to become more accessible. For both small-scale and utility-scale projects, the resources below can help identify the right policies for your community.

#### SOLAR IN YOUR COMMUNITY

Communities around the state are exploring solar power to offset the costs and emissions of other energy sources. Solar panels provide a flexible alternative to coal and gas powerplants that can allow communities to produce clean energy for local residents and the rest of the state. These resources will help you prepare, plan, and zone for solar energy production in your community.



#### Guidebook for Local Governments 5



Becoming Solar-Ready: A Guide for Michigan Governments, produced under a grant to the Clean Energy Coalition from the MEDC— Michigan Energy Office, includes sample permitting checklists, board and council resolutions, and planning/zoning language.

#### <u>Comparison: Minnesota</u> <u>Guidelines</u>



Grow Solar Minnesota: Local Government Solar Toolkit, produced by the Great Plains Institute, addresses the role of solar development in comprehensive plans and zoning ordinances and provides sample ordinance language.

#### Sample Ordinance Language 🔁



Model Zoning for the Regulation of Solar Energy Systems, produced by the Massachusetts Executive Office of Energy and Environmental Affairs, includes sample ordinance language for solar energy development of all sizes, along with recommendations.

#### Integrating Solar Energy into Local Plans 51



Integrating Solar Energy into Local Plans, one of the American Planning Association's Solar Briefing Papers, is a short guide on incorporating goals, objectives, policies, and actions that support solar energy use into local plans.

#### Sample Master Plan Language

7.1



Planning for Solar Energy, produced by the American Planning Association, is an indepth report on how planners can promote solar energy use through local policy and action.

#### More Resources



A table of additional documents and websites on preparing, planning, and zoning for solar energy production.

### Other related activities

- Webinar series
  - Benchmarking, audits
  - Code adoption primer
- Integrating work of other Energy Office grantees
  - RMI assistance for advanced communities
  - WUPPDR guidance
  - EV convenings
- Utility-scale solar taxation clarification



### Any questions?

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