



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

Energy and Sustainability

Energy Services, Sustainability Section
Materials Management Division

Introduction

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Clean Energy and Sustainable Energy are Integral to Sustainability

- Energy Efficiency lowers demand, lowers air and water pollutions, land disposal of waste associated with power generation
- Renewable Energy is sustainable energy, clean energy
- Energy Equity



Programs

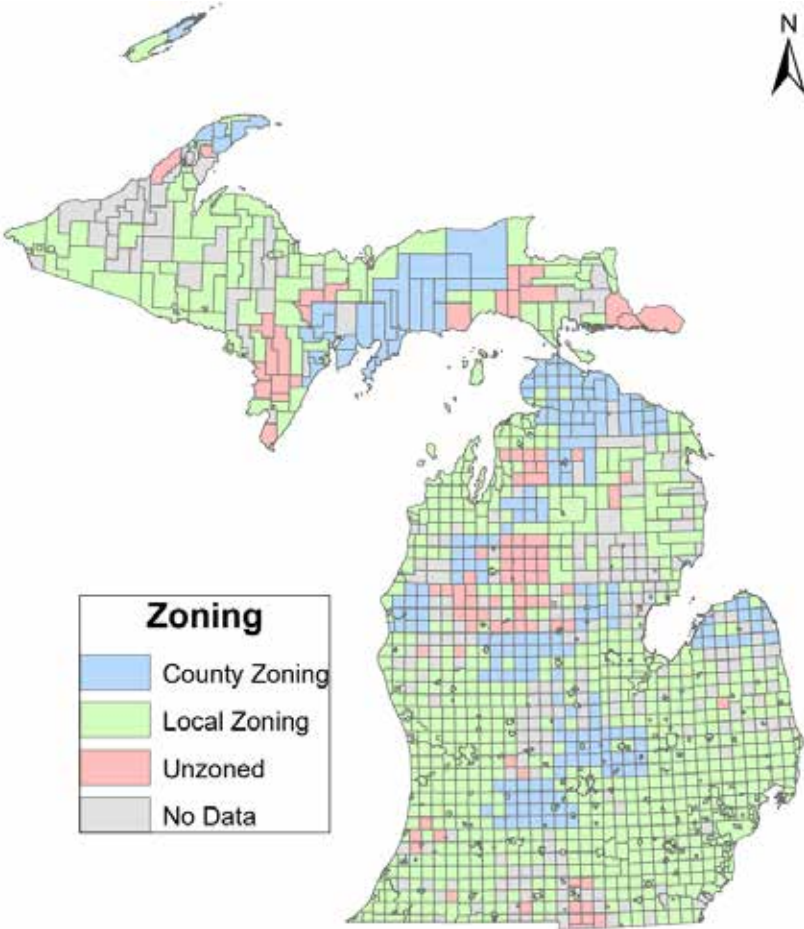
- Michigan 2030 District Program



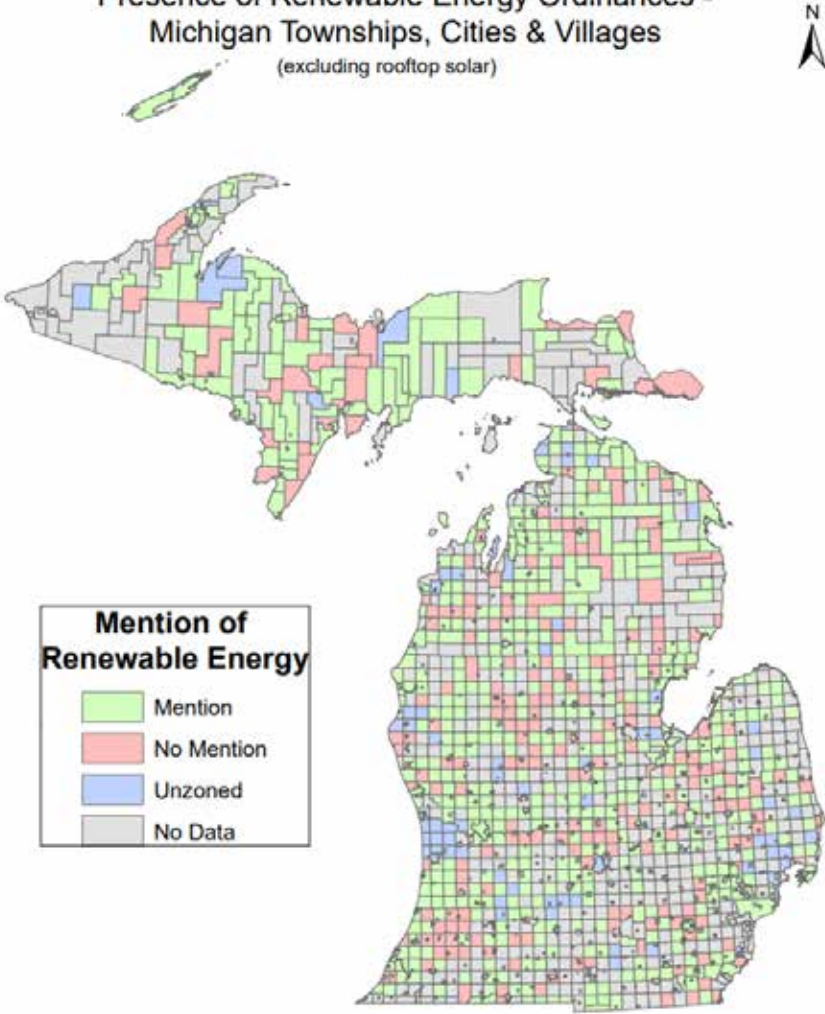
- Planning & Policy

- Database of zoning for energy
- Survey of local governments
- Repository of templates, guidance, FAQs, case studies, new content as needed
- Real-time consultation
- Climate Fellows program

Database of Zoning

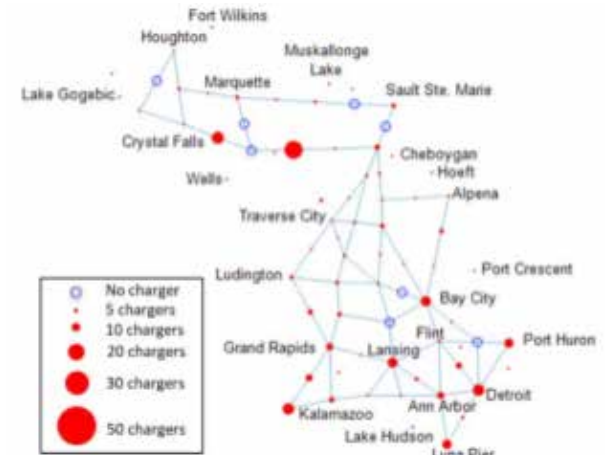


Presence of Renewable Energy Ordinances - Michigan Townships, Cities & Villages (excluding rooftop solar)



Programs

- Small Manufacturers
- Clean Tech Product Development
- EV Charger Infrastructure



Source: Electric Vehicle Charger Placement Optimization in Michigan



Source: <https://twitter.com/centropolislr8>



Source: Energetx Composites, Holland

Programs

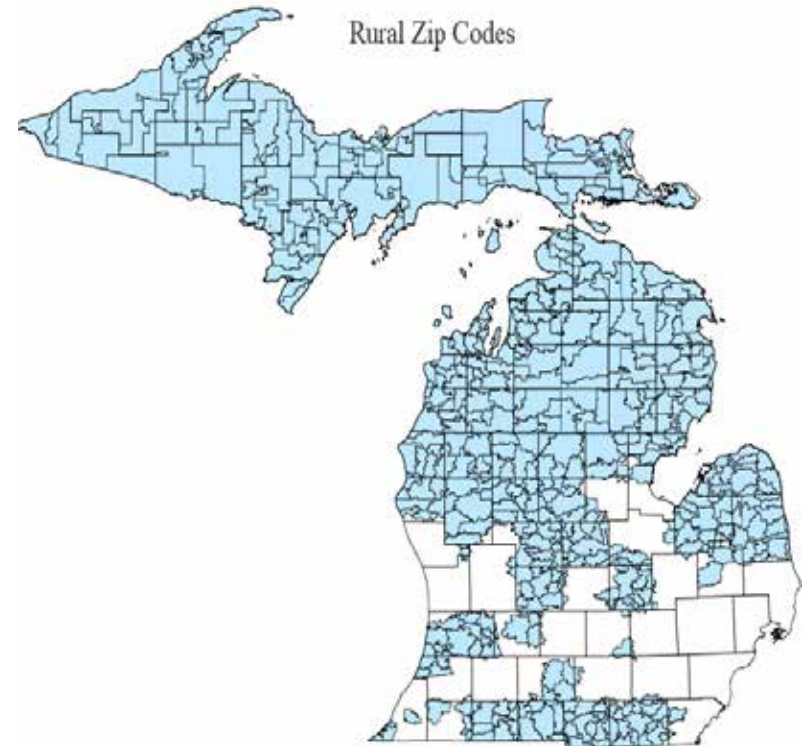
- Sponsorships
 - Energy Related Training
 - Builder Operator Certification (BOC)
 - Electric Vehicle (EV) Convenings

Agriculture & Rural Communities Energy Roadmap

- Project based on the premise that agriculture and rural customers are underserved by the energy programs and policies in Michigan
- Importance of Agriculture to Michigan
 - Produce over 300 commodities
 - 2nd most diverse state in the US
 - Production valued at \$8.1 billion annually
 - Employs 923,000 people – 22% of state employment
- Rural customers represent 20.6% of total population in Michigan and over 90% of land area

Agriculture & Rural Communities Energy Roadmap

- Establishing a baseline
 - Develop an inventory of current energy efficiency and renewable energy policies and programs
 - Baseline assessment of these policies and programs
 - Interviews with 40 + stakeholders
- Assess the effectiveness of existing policies and current programs and benchmark against other programs
- Development of roadmap
 - Stakeholders participated in development of recommendations and action plan for policies and programs



Agriculture & Rural Communities Energy Roadmap

- Key Outcomes / Recommended Actions
 - Provide funding for efficiency for deliverable fuel
 - Maintain efficiency programs for municipal utilities and electric cooperatives
 - Ensure more equitable distribution of incentives
 - Expand eligible measures – MEMD
 - Provide more financing options
 - Better access to information for customers
 - Continue to improve collaboration between stakeholders

Agriculture & Rural Communities Energy Roadmap

- Next Steps
 - Developing programs for FY2021
 - Currently open solicitation: Agriculture and Rural Communities Energy Incentive Program
 - Open to agribusinesses AND
 - Rural small businesses, public entities, and non-profits
 - Wide range of energy efficiency projects
 - Funding up to 25% of total project cost – Max \$15,000

Clean Energy for Low to Moderate Income Communities



- Address low-income energy challenges
- Access alternative energy
- State gov. and energy service providers partnerships
 - Energy Services
 - Local Community Action Agency
 - MI Department of Health and Human Services
 - Local Electric Utility
- Create programs to address needs



Less Stress

Warmer Home Temps.

Clean Energy for Low to Moderate Income Communities

- Low-Income Subscribers' Benefits

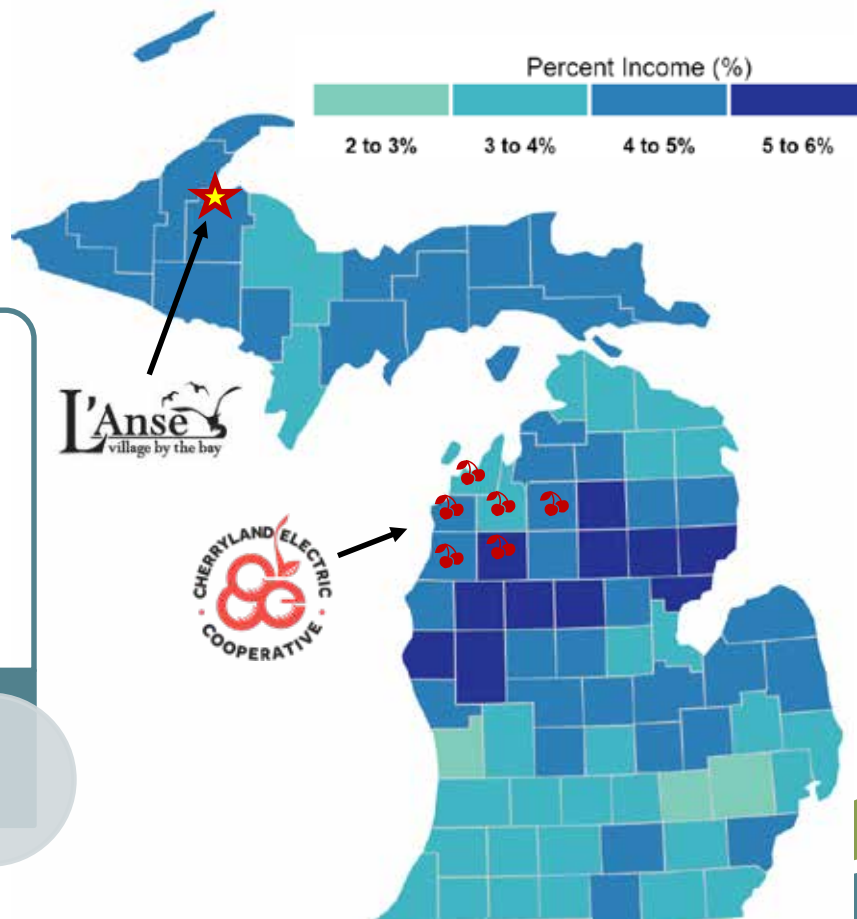
- Receive weatherization
- Receive solar credits
- Become energy self-sufficient

- 50 Subscribers
- \$350/yr. solar credit
- 0.7% Energy Decrease
- 9.7% Late Payment Decrease

Cherryland

- 25 Subscribers
- \$276/yr. solar credit
- 110 kW system
- 200 panels

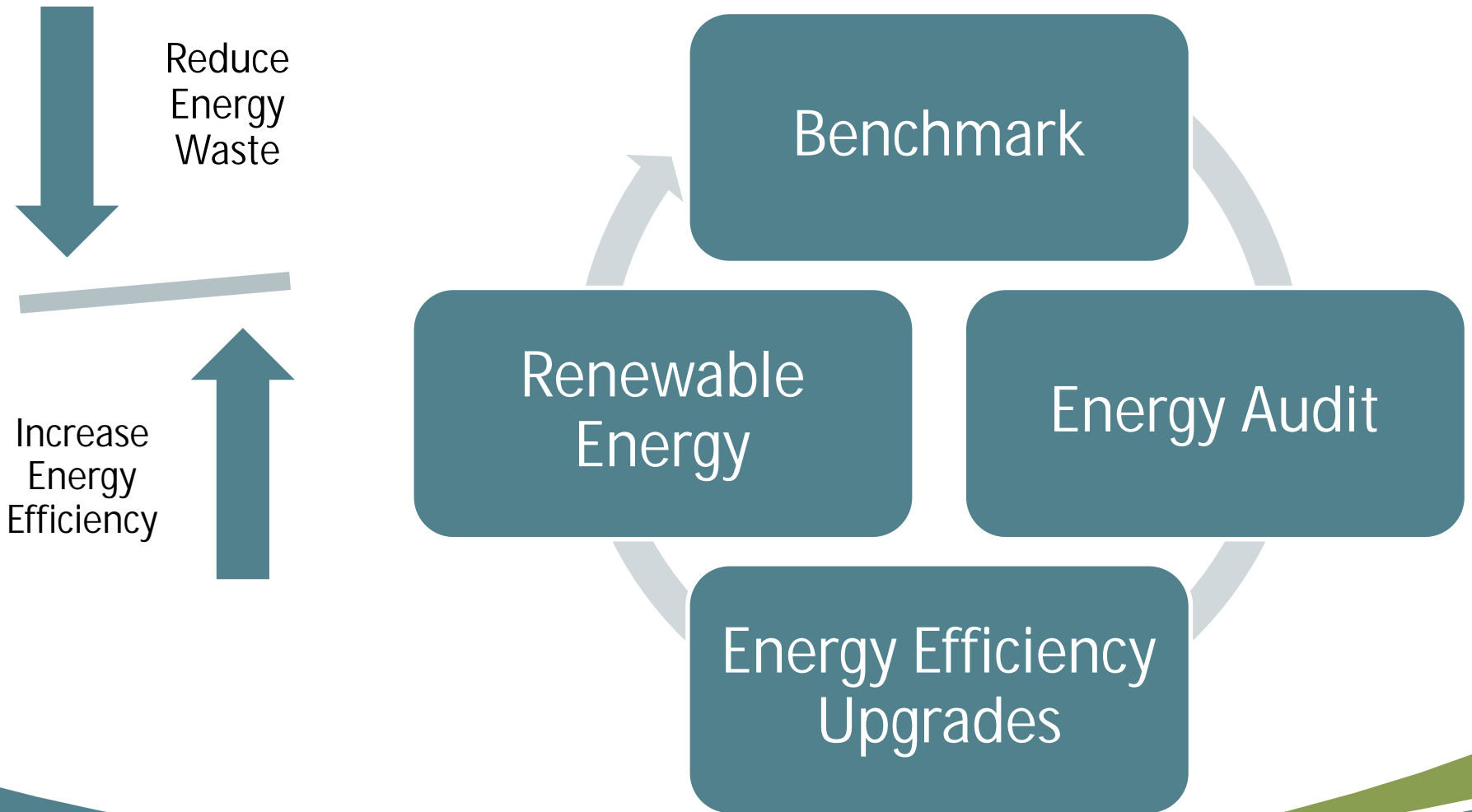
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Source: Low-Income Energy Affordability Data (LEAD) Tool.
<https://www.energy.gov/eere/slsc/maps/lead-tool>

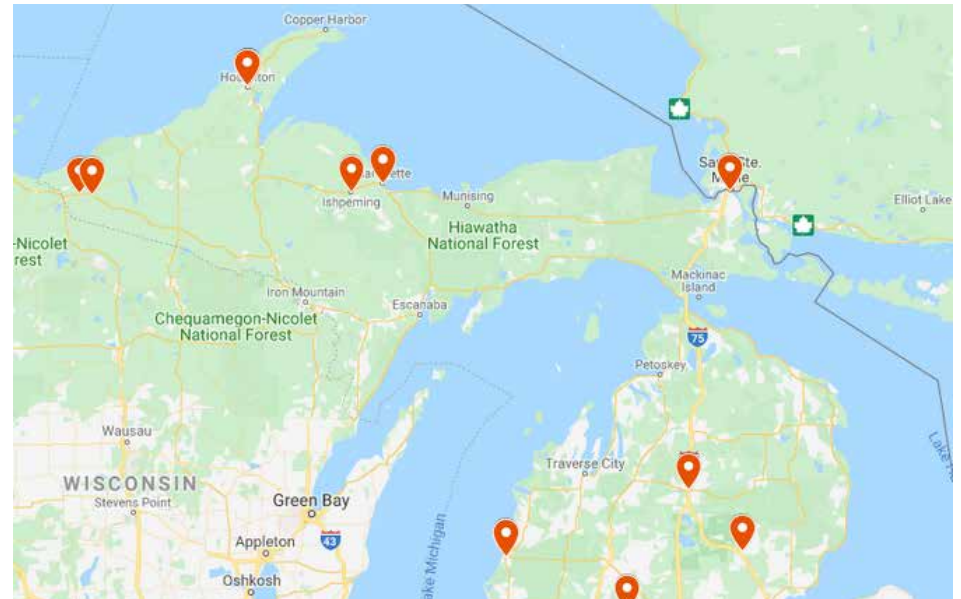
EGLE

Community Energy Management



Community Energy Management

- Community Energy Management Program
 - Public K-12 Schools
 - Communities
 - UP Regional Planning Districts



How It All Ties Together





Questions?

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