

# Michigan Saves: Clean Energy Deployment in Michigan

Michigan Municipal League  
Annual Conference  
September 17, 2015



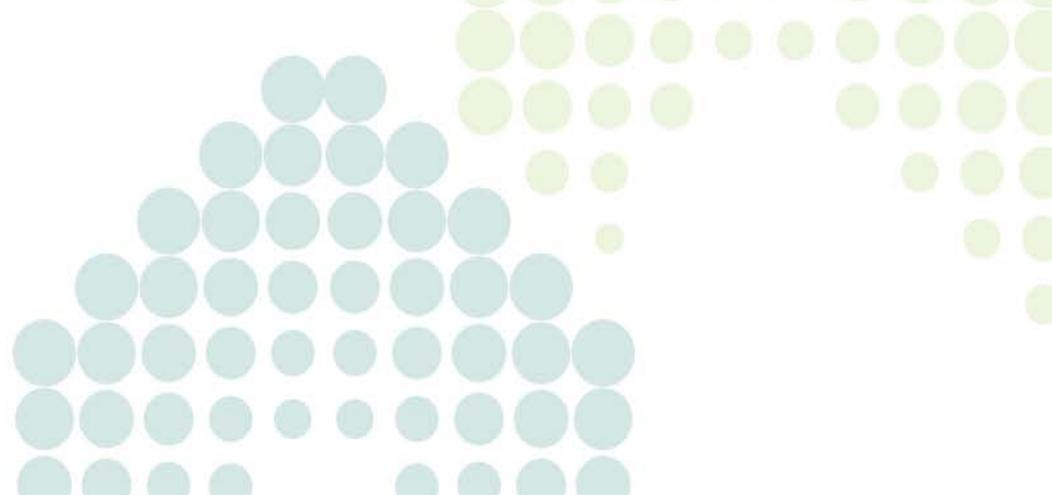
# Today's Discussion

- What is Michigan Saves?
- Michigan Clean Energy Report
  - Purpose
  - Approach
  - Key findings
- Discussion

# Michigan Saves Business & Public Sector Energy Financing Programs



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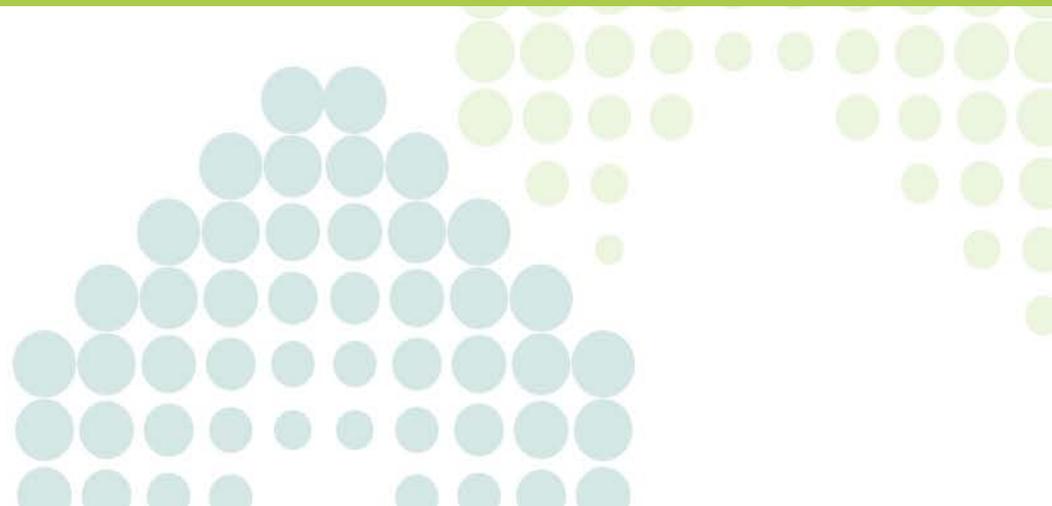
# Michigan Saves: Public Sector vs. Business Programs

	Public Sector	Business
<b>Transaction size</b>	\$5,000 to \$10M	\$2,000-\$300,000
<b>Application only</b> (no financials)	Up to \$100,000	Up to \$250,000
<b>Financials required</b> (if over \$ amount)	2 years financial statements <b>and</b> current budget	2 years tax returns <b>or</b> financial statements
<b>Credit decision</b>	2-4 business days	1 business day
<b>Rental/Leased Space?</b>	No (must be on/attached to government property)	Yes
<b>Pre-funding?</b>	No	Yes (minimum \$5,000)

# Michigan Clean Energy Report



[www.michigansaves.org](http://www.michigansaves.org)



# Project Overview

- Funded by the Mott Foundation
- Two parts:
  - Statewide overview of energy use and clean energy technology deployment
  - Profile of clean energy efforts in seven Michigan communities
- Partnered with MML to connect with Green Communities program

# Project Approach

Looked at four areas of clean energy statewide and for seven mid-sized communities



# Project Approach (continued)

Seven communities profiled:

- Alpena
- Holland
- Kalamazoo
- Marquette
- Pontiac
- Saginaw
- Ypsilanti

# Key Findings



# Policies and Goals

	ALPENA	HOLLAND	KALAMAZOO	MARQUETTE	PONTIAC	SAGINAW	YPSILANTI
City has clean energy or sustainability plan	None	Municipal + Community	Municipal	None	Municipal	Municipal	None
Clean Energy addressed in city's master plan	Municipal	Municipal + Community	Municipal + Community	Municipal + Community	Municipal + Community	None	Municipal + Community
Clean Energy addressed in city's zoning ordinances	Municipal + Community	Municipal + Community	None	Municipal + Community	Municipal + Community	None	Municipal + Community
City has a renewable energy goal	None	Municipal + Community	Municipal	None	None	None	Municipal + Community
City has an electric vehicle purchasing policy	None	None	Has a policy	None	None	None	None
City has other related sustainability plans or programs (e.g., tree cover, recycling)	Municipal + Community	Municipal + Community	Municipal + Community	Municipal + Community	None	Municipal	Municipal

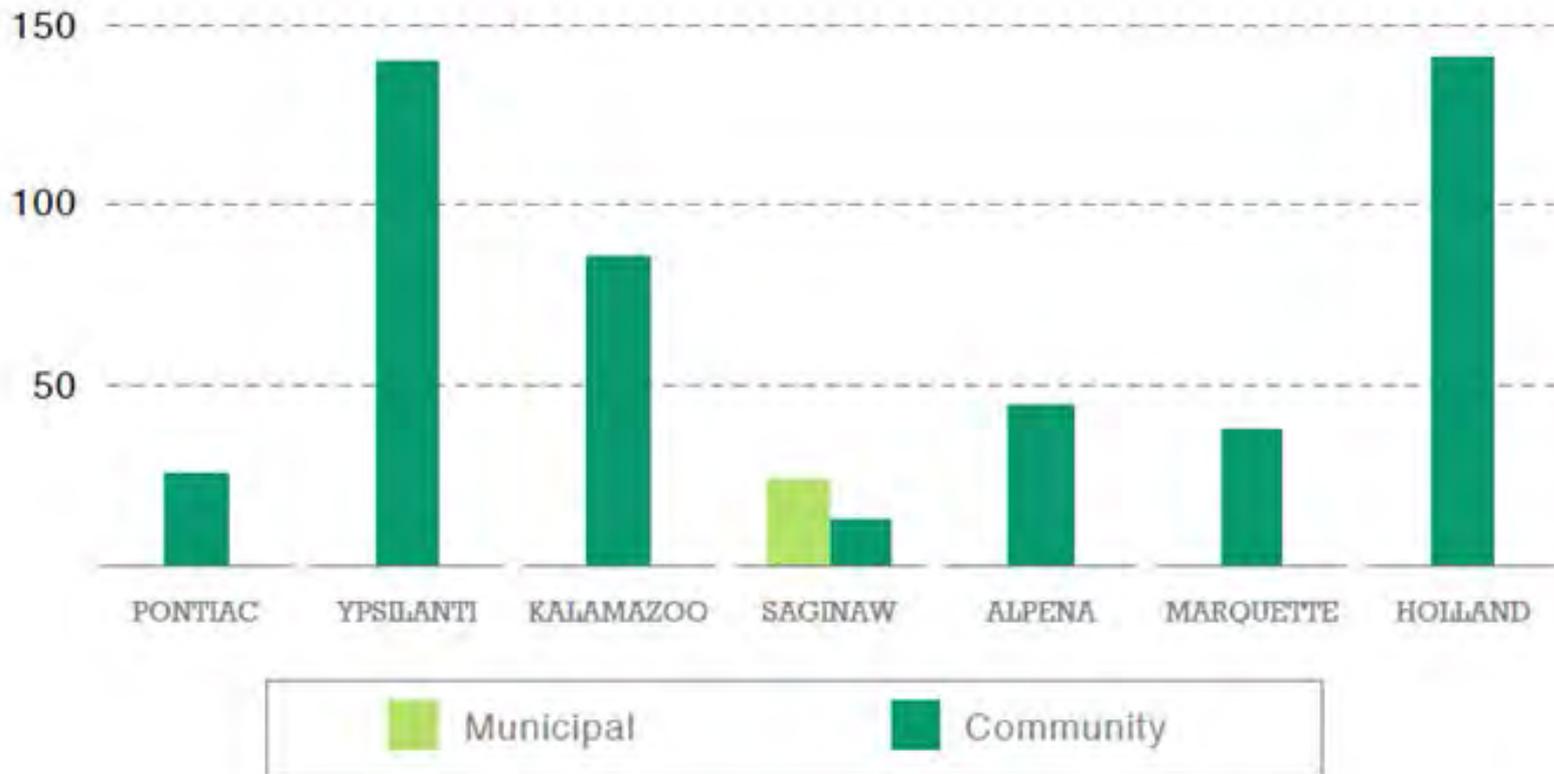
# Energy Efficiency

**The biggest successes have been in the area of energy efficiency.**

- Communities recognize the potential to save energy and money through investments in energy efficiency.
- The availability of funds through programs such as Energy Efficiency and Conservation Block Grants enabled cities to pursue projects.
- The inability to access community-level data makes it difficult to track progress.

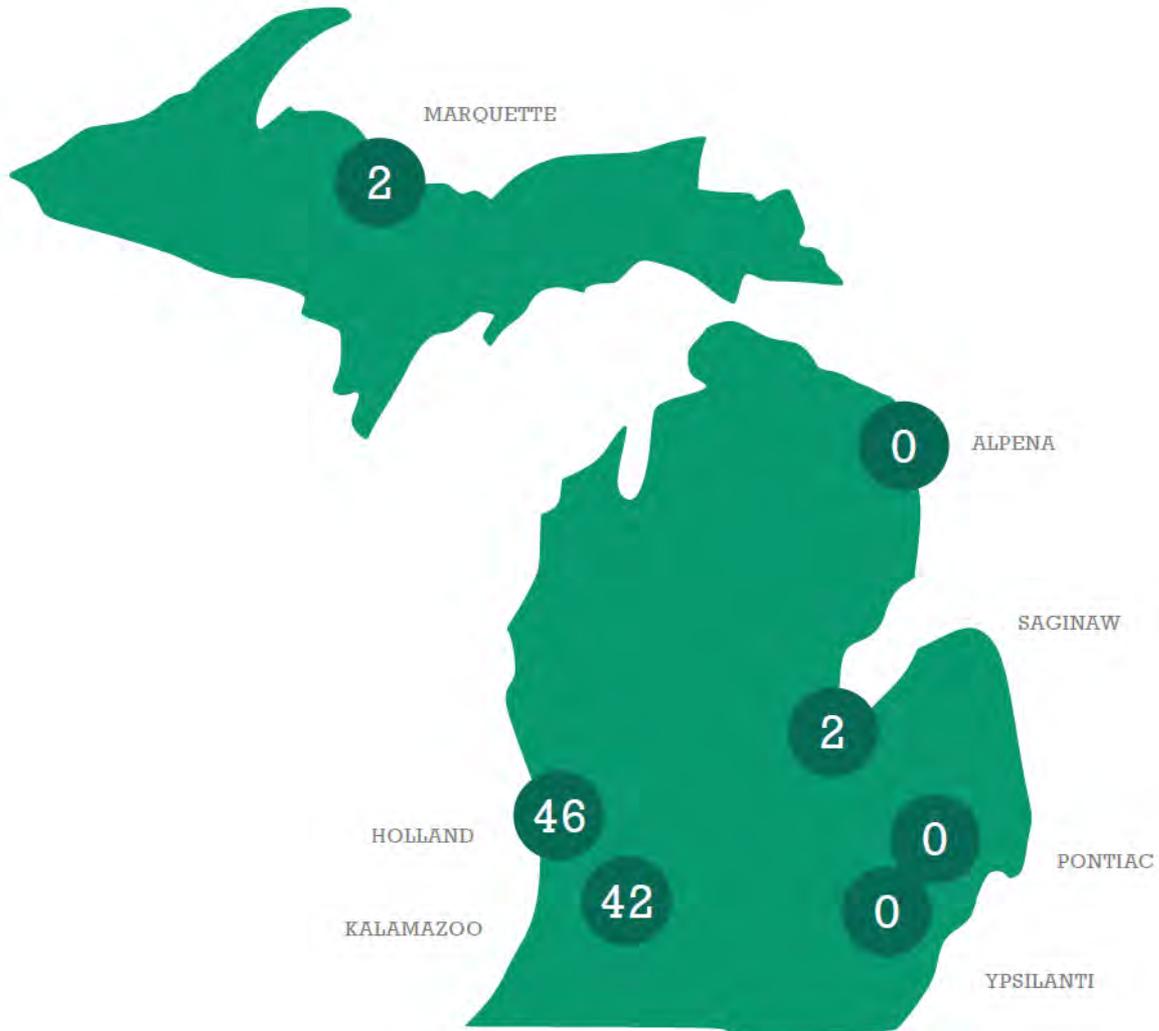
# Distributed Renewables

Net Metering Capacity - distributed renewables (kw)



# Plug-in Electric Vehicles

Number of public electric vehicle charging stations



# Microgrid and Smart Grid

- No policies or projects for energy microgrids.
- The most significant deployment has been Advanced Metering Infrastructure, or smart meters.

**Deployment of Advanced Metering Infrastructure (Smart Meters)  
(showing dates of estimated completion)**



# Elements of Success

- Ongoing funding makes a significant difference.
- Dedicated and consistent staff in place results in more progress.
- Leadership and partnership are important factors in success.
- Concentrated effort creates exponential results.



# Challenges

- Measuring energy consumption at the community level was difficult—there was no data on municipal consumption or community-specific data readily available through public sources.
- The lack of common reporting standards among communities made it difficult to make comparisons.
- Community investment in energy efficiency hasn't always resulted in cost savings because of rate structures.

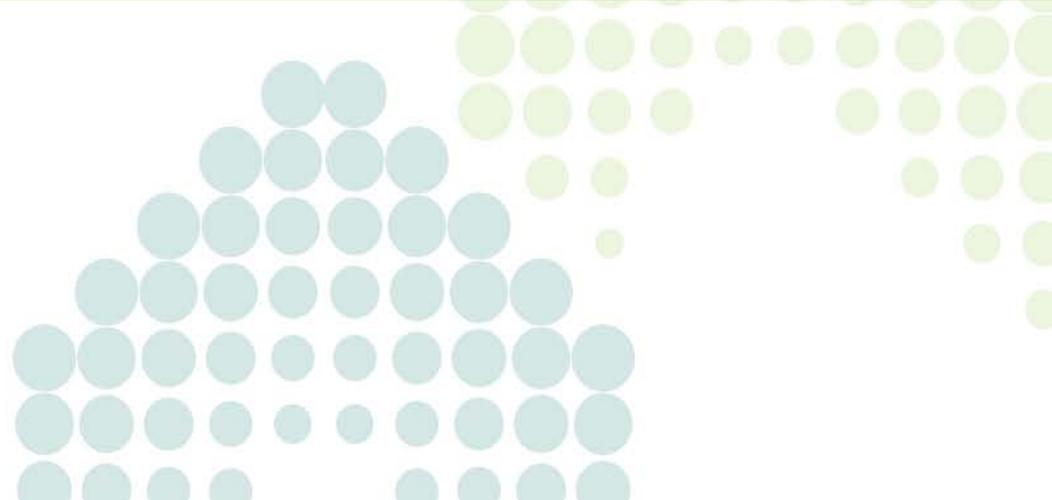
# Moving Forward

- Lessons learned here that are applicable to other communities
- Partner with MML on Green Communities Challenge
  - Great tools
  - Tracking
- Pursuing creative and self-sustaining funding at community level

# Discussion and Questions



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# MI Saves Resources and Contacts

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