

Michigan Saves: Clean Energy Deployment in Michigan

MLGMA Winter Institute
February 3, 2016



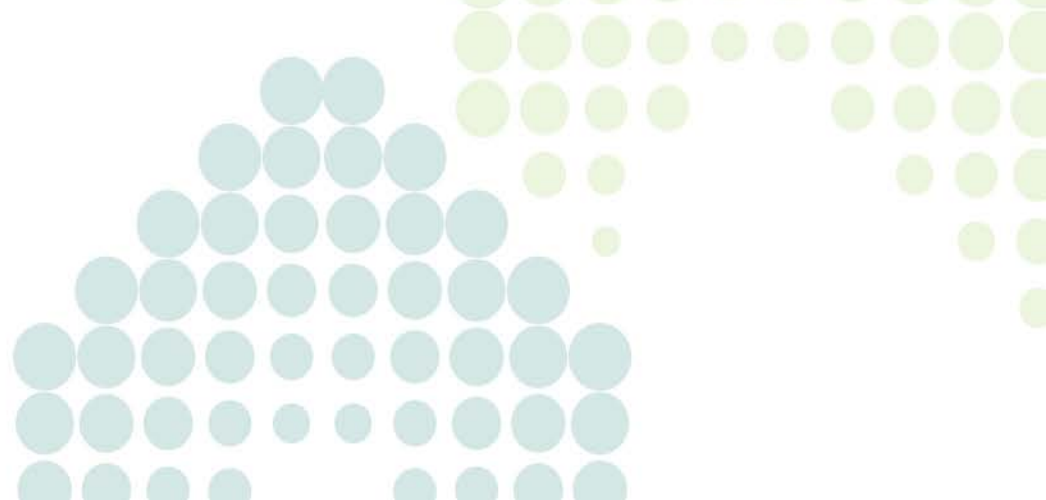
Today's Discussion

- 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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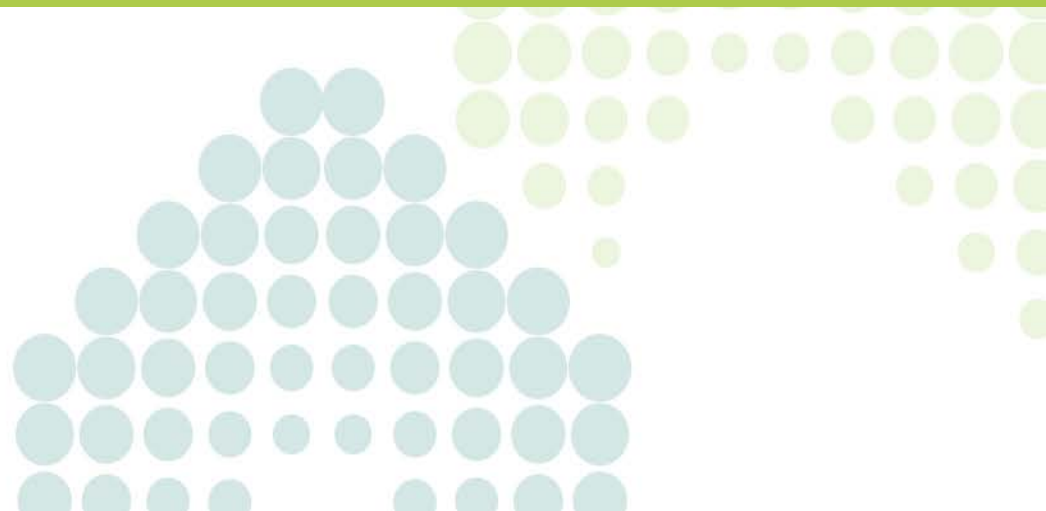
Michigan Saves: Public Sector vs. Business Programs

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

Michigan Clean Energy Report



www.michigansaves.org



Project Overview

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

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

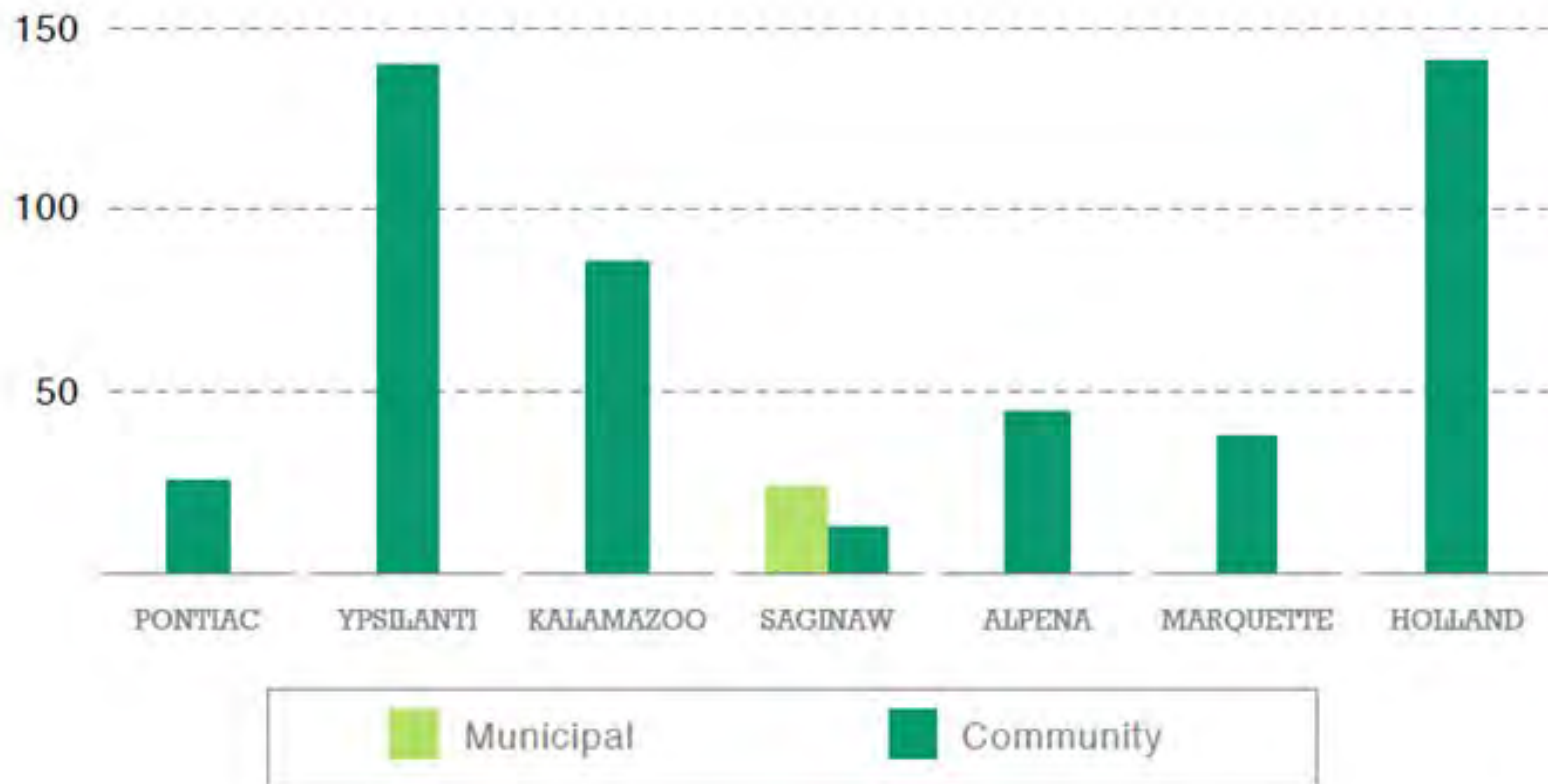
Energy Efficiency

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.

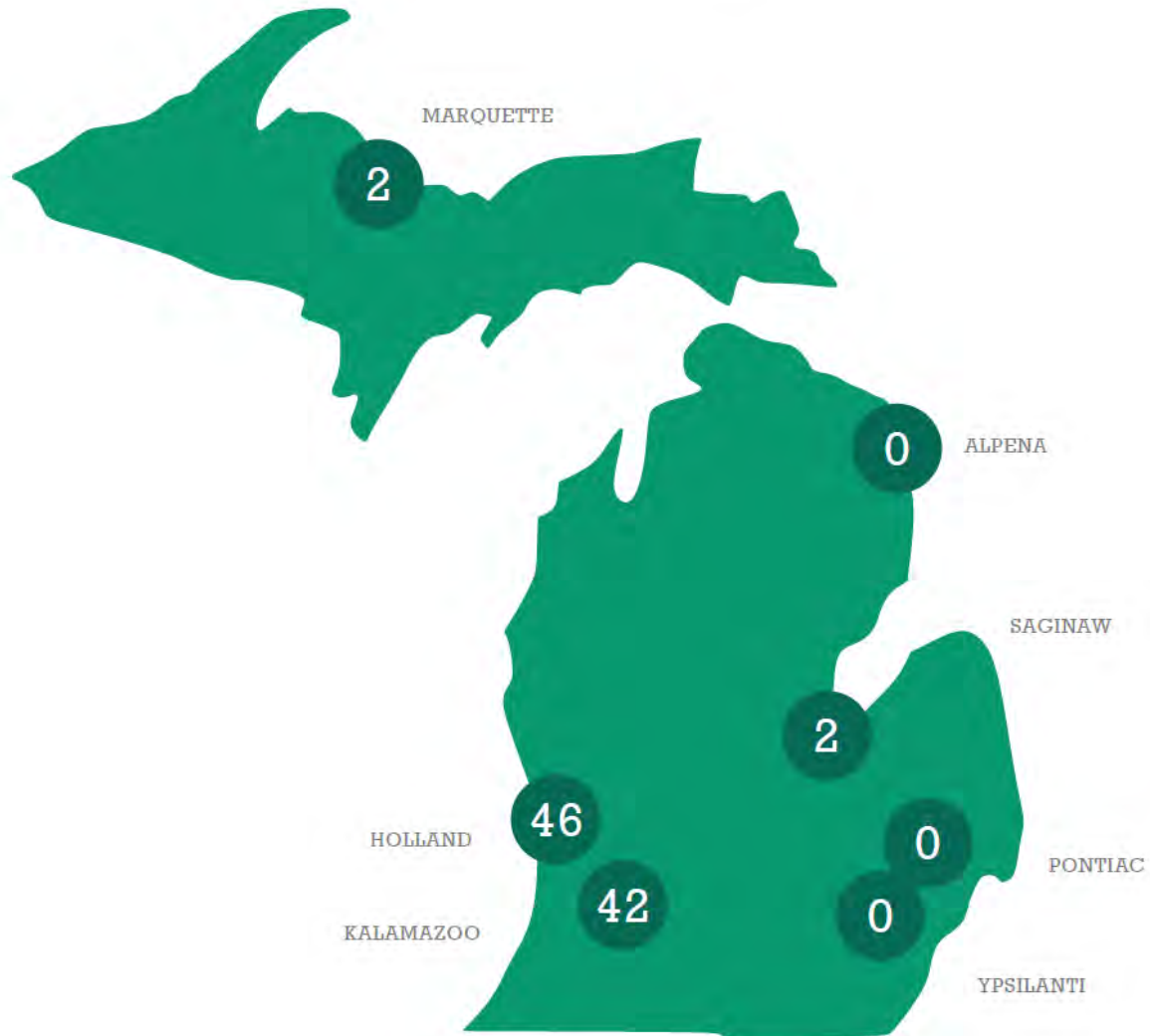
Distributed Renewables

Net Metering Capacity - distributed renewables (kw)



Plug-in Electric Vehicles

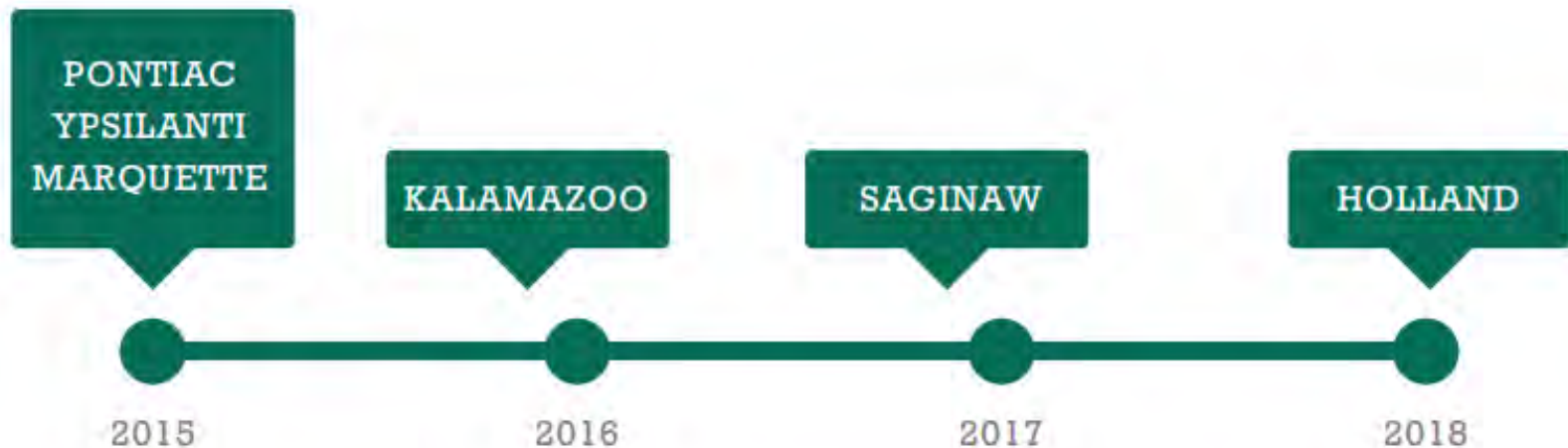
Number of public electric vehicle charging stations



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.

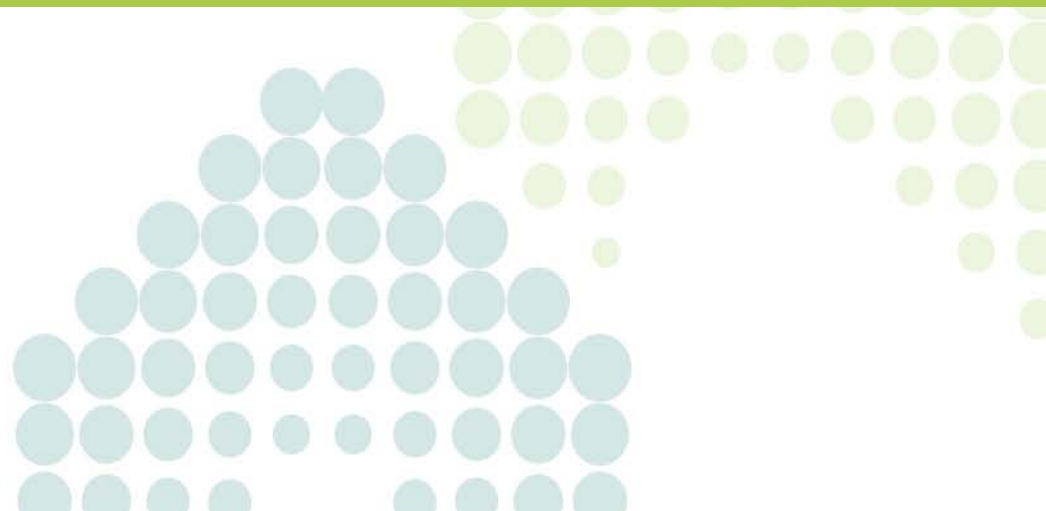
Moving Forward

- 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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