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
# Michigan Saves: Public Sector vs. Business Programs

<table>
<thead>
<tr>
<th></th>
<th>Public Sector</th>
<th>Business</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transaction size</strong></td>
<td>$5,000 to $10M</td>
<td>$2,000-$300,000</td>
</tr>
<tr>
<td><strong>Application only</strong></td>
<td>Up to $100,000</td>
<td>Up to $250,000</td>
</tr>
<tr>
<td>(no financials)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Financials required</strong></td>
<td>2 years financial statements and current budget</td>
<td>2 years tax returns or financial statements</td>
</tr>
<tr>
<td>(if over $ amount)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Credit decision</strong></td>
<td>2-4 business days</td>
<td>1 business day</td>
</tr>
<tr>
<td><strong>Rental/Leased Space?</strong></td>
<td>No (must be on/attached to government property)</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Pre-funding?</strong></td>
<td>No</td>
<td>Yes (minimum $5,000)</td>
</tr>
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Michigan Clean Energy Report
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 midsized communities
Seven communities profiled:

- Alpena
- Holland
- Kalamazoo
- Marquette
- Pontiac
- Saginaw
- Ypsilanti
Key Findings
# Policies and Goals

<table>
<thead>
<tr>
<th></th>
<th>Alpena</th>
<th>Holland</th>
<th>Kalamazoo</th>
<th>Marquette</th>
<th>Pontiac</th>
<th>Saginaw</th>
<th>Ypsilanti</th>
</tr>
</thead>
<tbody>
<tr>
<td>City has clean energy or sustainability plan</td>
<td>None</td>
<td>Municipal + Community</td>
<td>Municipal</td>
<td>None</td>
<td>Municipal</td>
<td>Municipal</td>
<td>None</td>
</tr>
<tr>
<td>Clean Energy addressed in city’s zoning ordinances</td>
<td>Municipal + Community</td>
<td>Municipal + Community</td>
<td>None</td>
<td>Municipal + Community</td>
<td>Municipal + Community</td>
<td>None</td>
<td>Municipal + Community</td>
</tr>
<tr>
<td>City has a renewable energy goal</td>
<td>None</td>
<td>Municipal + Community</td>
<td>Municipal</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Municipal + Community</td>
</tr>
<tr>
<td>City has an electric vehicle purchasing policy</td>
<td>None</td>
<td>None</td>
<td>Has a policy</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>City has other related sustainability plans or programs (e.g., tree cover, recycling)</td>
<td>Municipal + Community</td>
<td>Municipal + Community</td>
<td>Municipal + Community</td>
<td>Municipal + Community</td>
<td>None</td>
<td>Municipal</td>
<td>Municipal</td>
</tr>
</tbody>
</table>
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)

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

Legend:
- Municipal
- Community

www.michigansaves.org
Plug-in Electric Vehicles

Number of public electric vehicle charging stations

MARQUETTE: 2
HOLLAND: 46
KALAMAZOO: 42
ALPENA: 0
SAGINAW: 0
PONTIAC: 0
YPISILANTI: 0
Microgrid and Smart Grid

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

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