

Energy Efficiency in the MUSH Sector

Opportunities for Energy Savings,
Reduced Emissions & Quality Job Creation

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ABOUT MEC

- Our history
 - Since 1980
 - Bought this building in 2013 and have since become LEED Platinum certified
- Vision/mission
- Member groups
 - Over 70 member groups
 - Geographic diversity
 - Annual and regional meetings



20 by 20 for Michigan

- BlueGreen Alliance and the Don Vial Center for Employment in the Green Economy at U.C. Berkeley
- 20% reduction in electricity in Michigan's schools, hospitals and other public buildings would
 - Create a positive economic impact on jobs,
 - Reduce energy waste in public facilities,
 - Reach 20% of Michigan's carbon emissions reduction target under the Clean Power Plan

MUSH Sector

- Municipal
- Universities
- Schools
- Healthcare

Barriers

- Efficiency work requires upfront investment
- MUSH staff have limited capacity to manage energy efficiency projects
- Energy retrofits aren't politically attractive
- Government policies fail to incentivize improved energy performance

Cost Savings

- 20%
reduction =
\$6.8 billion
savings



Example of Savings



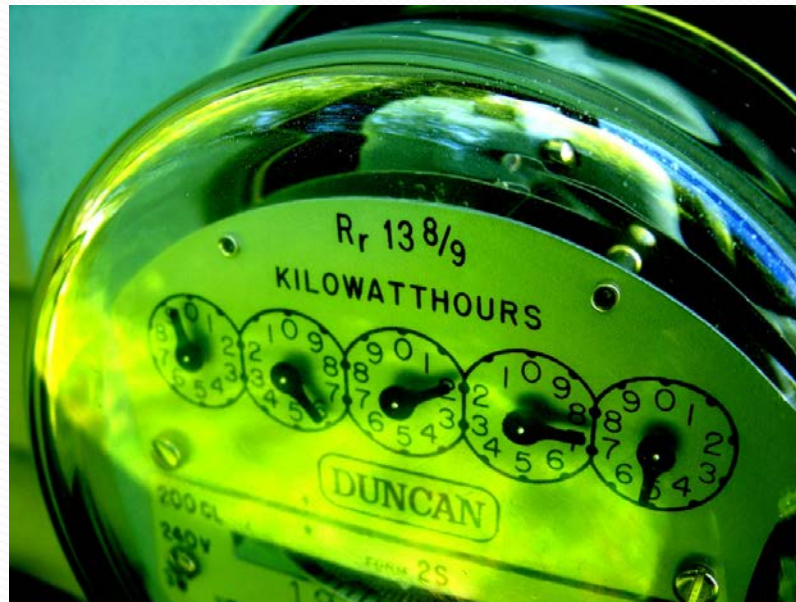
- K-12 School Efficiency
- 2009-2011 Pilot Program
- 67 MI K-12 Schools
- Savings of \$400,000 annually



Energy Savings

- 20% reduction in MUSH sector alone =

56,000 GWH



Quality Jobs

- 24,000 direct jobs
- 2/3 blue collar jobs



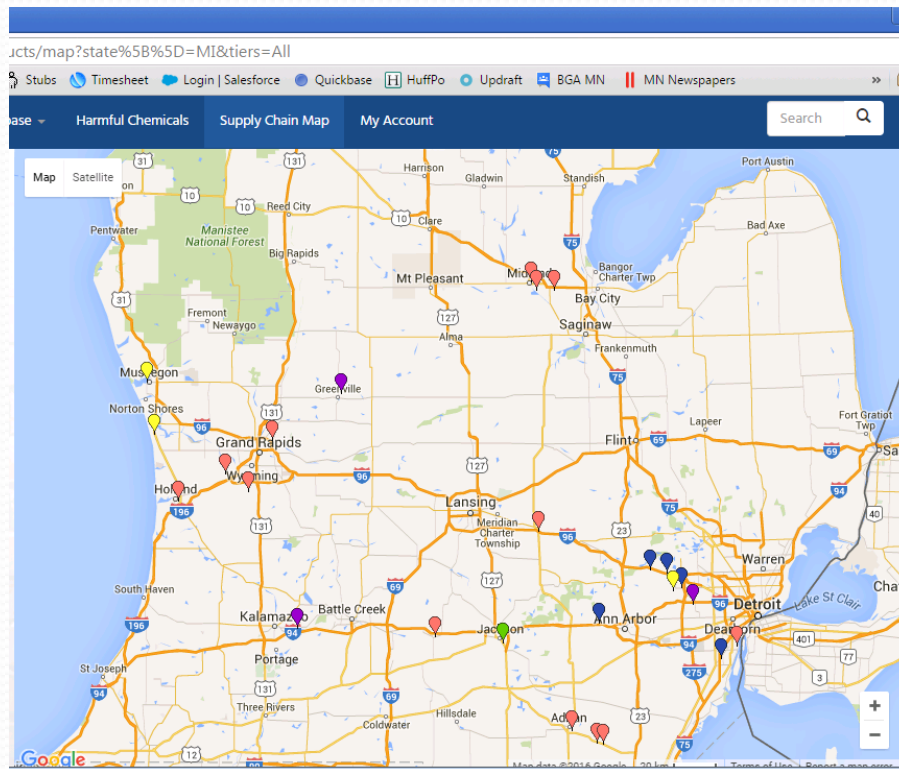
Quality Jobs

- Stable careers in the green economy
- Engaging existing building staff



Increased Demand for MI Made Building Products

- According to the U.S. EPA, 50% of energy efficiency equipment of typically sourced locally



- 23 companies manufacturing EE components and equipment in MI

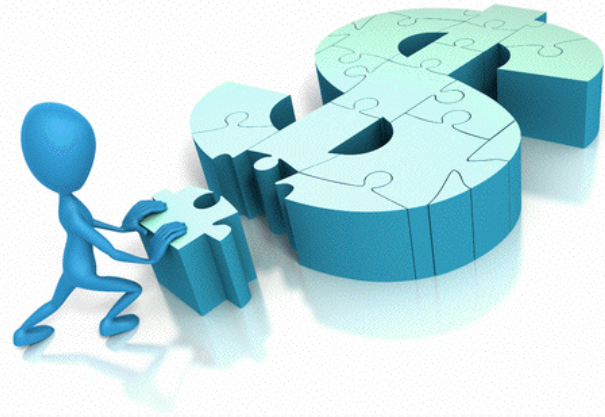
Need = Opportunities

- According to the American Society of Civil Engineers, there is ***\$8.9 billion*** in school infrastructure needs



Financing Options

- Green Banks
- Bonds
- Close tax loopholes
- On-bill financing
- Carbon allowance revenue
- Emission Rate Credits (ERCs)
- Federal funding opportunities



Solutions

- Full service statewide program that includes financing, technical assistance, workforce training, retrofit services in MUSH sector
- Centralized program to ensure financial savings, skilled workforce, good jobs, systematic and strategic approach to energy efficiency
 - I. Building equipment upgrades (20-40% reduction in electricity use) with financing and technical assistance
 - II. Responsible contractor pre-qualification and labor standards
 - III. Building worker training



Thank you!

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