



Michigan Interfaith Power and Light (Michigan IPL)

Leading Energy Efficiency in
Houses of Worship across Michigan

EO Collaborative Working Group

April 15, 2014



Our Purpose Today

- Introduce Michigan IPL to the MPSC, utilities, and contractors
- Share the significant results of **Michigan IPL Energy Efficiency (EE) pilot with DTE** in 48 Detroit Houses of Worship (HoW's)
- Work together to consider ways to scale up across Michigan
- Why? There is Great Opportunity...
 - Faith communities are predisposed to engage in EE and Sustainability
 - Untapped sector for wide-spread EE



Michigan IPL

Connecting Faith and Sustainability

- Award winning non-profit, started in 2002
- Energy Optimization is primary focus
- 225+ HoW Members, multi-faith
(approx. 55,000+ congregants (“touches”))
- Leading voice for Faith community on energy and sustainability
- Diverse Board: strong energy, utility, and industry experience
- Proven track record of results for HoW energy projects





Key Accomplishments 2012 - 2013

- Recognized leader in Energy Optimization:
 - 2013 DTE Energy Efficiency Leader Award
 - Michigan is #1 in US in ENERGY STAR® Certified HoWs
 - Foundation funding for outreach to faith community
 - MEDC Feasibility Study for HoW solar aggregation
- Recognized leader in Sustainability education for HoWs:
 - 9th Annual Sustainability Conference - Utility & University partners
 - Sustainability Framework & Workshop for faith communities

Michigan IPL Energy Efficiency Pilot with DTE-48 Detroit HoWs

- Turn key process managed by Michigan IPL 2011 – 2013 :
 1. Baseline energy assessment
 2. Managed direct installs by local contractors, selected with DTE
 3. Measurement & verification
- Next level of EE actions defined per assessment
- Tier II in select HoW's: LED parking lot lighting, HVAC controls
- ENERGY STAR® Certification applications for applicable HoWs



Michigan IPL Energy Efficiency Pilot

Pilot Results:

Actual Savings:

- 11% average energy cost savings
- Average of \$2,300 per HoW
- \$104,000 in energy savings in 1st yr
- Just over 1 year payback period for pilot project

We also received many letters from the participant houses of worship, thanking the program and DTE Energy for reducing their costs and increasing building usability. (Better lighting, more even heating/cooling, etc.)



Michigan IPL Energy Efficiency Pilot

Pilot Results Cont'd: (from DTE Energy data)

The HoW Pilot demonstrated EO savings*:

487,000 kWh and 7,139 CCF

The HoW Pilot demonstrated cost effectiveness*:

cost effectiveness of the Pilot for the first phase was **16.6 cents/kWh and \$5.09/CCF**

The HoW Pilot demonstrated Customer Satisfaction and continued engagement:

Post-pilot Survey Responses (July 2013):

100% who had CFLs installed, are still using them; 11% have replaced some or added more

85% of those who had programmable thermostats installed, reported still using them

86% report that the door sweeps and air sealing measures are still functional

30% reported changes to the building operating schedules since the energy assessment, with

50% reporting more hours of use

55% reported there is a committee (or more than one person) reviews their energy usage, and

52% feel their energy costs have gone down, 44% said they were uncertain or had not noticed,

and 4% said they have seen an increase in usage – but attributed that to increased hours of operation

The respondents also suggested that they would continue to benefit from educational materials and follow-up assistance with their energy usage/cost

* Calculations based on 2011 Deemed Savings values

Why should you be supportive and involved with a plan for your company?

Program Meets Utility's needs to:

- Meet Energy Optimization goals**
- Increases customer satisfaction**
- Reduce energy bills and arrears**
- Gain exposure throughout the State (via Michigan IPL) for your company**
- Earn recognition as a leading company in energy efficiency work serving faith communities**



Michigan IPL poised and ready to roll out partnerships with Michigan Utilities

- Michigan IPL uniquely positioned- recognized and respected leader for faith community in MI
- Michigan IPL connections and membership are growing (e.g. Last sign-up was Episcopal Diocese of N. MI)
- Proven EO model & results in HoW's - Ready to replicate
- Established HoW energy savings database
- There are over 12,000 HoWs in Michigan...**Large Opportunity!**



Our organization is helping faith communities conserve energy. Let us do this good work together and have grand successes.



Proposed Next Steps- Michigan IPL Energy Efficiency Program

- Determine interest level of utilities
- Set up face to face meetings with company leaders
- Discuss & tailor a specialized model for implementation based on company needs/assets

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