## Contents

INTRODUCTION................................................................................................................................. 1

Purpose ............................................................................................................................................ 1
About Michigan Saves ...................................................................................................................... 1
Using this Program Implementation Guide ..................................................................................... 1

SUMMARY OF MICHIGAN SAVES HOME ENERGY LOAN PROGRAM ............................................ 1

BECOMING AN AUTHORIZED MICHIGAN SAVES CONTRACTOR ................................................ 3

Advanced Contractors ..................................................................................................................... 5
Contractor Requirements for Solar PV Installations ....................................................................... 5
Application Process to Become Michigan Saves Authorized Contractor ........................................ 7
Changes and Other Updates to Contractor Information ................................................................... 7
Michigan Saves Authorized Contractors List .................................................................................... 7
Michigan Saves Program Training .................................................................................................... 8
Michigan Saves Fees Assessed to Contractors ................................................................................ 8

ENROLLING CUSTOMERS IN MICHIGAN SAVES ........................................................................ 9

Customer Eligibility ....................................................................................................................... 9
Customer Enrollment Process ......................................................................................................... 9

ELIGIBLE IMPROVEMENTS............................................................................................................. 10

Eligible Measures List ..................................................................................................................... 10
Comprehensive Energy Assessment ............................................................................................... 11
Renewable Energy Measures ......................................................................................................... 11
Non-Energy Building Performance Improvements ......................................................................... 11

ADDITIONAL CONTRACTOR REQUIREMENTS ............................................................................. 12

Licenses and Certification ............................................................................................................... 12
Written Estimates ............................................................................................................................. 12
Warranties for Labor and Equipment ............................................................................................. 12
Subcontracting Policy ..................................................................................................................... 12
Compliance with Applicable Laws .................................................................................................. 13
Installation Best Practices and Requirements ............................................................................... 13
Prohibition on Contractor Reserves: .............................................................................................. 13
Relationship with Michigan Saves .................................................................................................. 13
Minimum Number of Projects ........................................................................................................ 14

BILLING AND PAYMENT ............................................................................................................... 14

Contractor Payment ....................................................................................................................... 14
Customer Loan Closing and Payment ............................................................................................. 14
Customer Rebates .......................................................................................................................... 14

CUSTOMER INQUIRIES AND COMPLAINTS ........................................................................... 15

MICHIGAN SAVES ONLINE CONTRACTOR PORTAL ................................................................. 15

Contractor Application .................................................................................................................... 15
Program Forms ............................................................................................................................... 16
Submittal Instructions .................................................................................................................... 16

QUALITY ASSURANCE ................................................................................................................... 17

Objectives ..................................................................................................................................... 17
QA Procedures ............................................................................................................................... 17
Document Review & File Check ....................................................................................................... 18
Customer Satisfaction Survey ......................................................................................................... 18
Site Inspections ............................................................................................................................. 18
Types of Deficiencies and Corrective Action Reports .................................................................... 20
Contractor Response to Corrective Actions Reports ...................................................................... 21
Contractor Participation Status ..................................................................................................... 24
Document History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Nature of Revisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>August 19, 2010</td>
<td>Initial Implementation Guide</td>
</tr>
<tr>
<td>2.0</td>
<td>February 15, 2011</td>
<td>Updated to reflect new ways for contractors to qualify as authorized or advanced; subcontracting policy; health and safety measures policy; quality assurance procedures; new specification sheet and online database option; and new Eligible Measures List including solar PV as eligible measure.</td>
</tr>
<tr>
<td>3.0</td>
<td>April 30, 2012</td>
<td>Loan limit increased to $20,000, new collection policy for per-loan fee described, instructions for Online Contractor Portal added.</td>
</tr>
<tr>
<td>4.0</td>
<td>September 4, 2012</td>
<td>Removed requirement regarding primary residence</td>
</tr>
<tr>
<td>5.0</td>
<td>March 15, 2014</td>
<td>Updated to reflect new loan cap of $30,000, revised FICO requirements and new terminology for QA process. Replaced ‘a la carte’ and ‘whole home assessment option’ terminology with a more functional description that better represents how the program is implemented. Added contractor rating system.</td>
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</tbody>
</table>
INTRODUCTION

Purpose

This implementation guide outlines the details and requirements of the Michigan Saves Home Energy Loan Program, which provides easy, affordable loans to homeowners for qualifying energy efficiency and renewable energy improvements in Michigan. The guide serves as a reference for participating energy auditors and installation contractors to understand the program requirements and to promote the program to customers.

About Michigan Saves

Michigan Saves is a nonprofit organization dedicated to making energy improvements easy and affordable for all types of Michigan energy consumers—businesses, schools, municipalities, and residents. Endowed with an initial trust fund of $6.5 million from the Michigan Public Service Commission, this program eliminates the upfront costs of installation and provides a streamlined process for securing financing at preferred rates. To do this, Michigan Saves leverages third-party capital with innovative credit enhancement mechanisms, works closely with energy efficiency and renewable energy system contractors, coordinates with similar programs in the state and across the country, and monitors the program to track results and ensure success.

Using this Program Implementation Guide

This guide is written in a conversational way, reflecting the manner in which industry professionals refer to efficiency measures or efficiency programs. As a result, there are instances where terms are used interchangeably, such as the terms “audit” and “assessment.” A glossary of commonly used terms is provided in Appendix A.

This guide represents the best and most accurate information on the Michigan Saves loan program, as of the date on the front cover. A summary of changes to each version of this guide is recorded after the table of contents. Contractors should download the latest version of this guide and forms from the Michigan Saves website: www.michigansaves.org.

SUMMARY OF MICHIGAN SAVES HOME ENERGY LOAN PROGRAM

Under the Michigan Saves Home Energy Loan Program, homeowners can finance any eligible energy efficiency improvement that is implemented by a Michigan Saves Authorized Contractor. Eligible energy efficiency improvements include any measure or piece of equipment with an Energy Star® label, such as air conditioners, air source heat pumps, appliances, boilers, doors, furnaces, geothermal systems, roofs, skylights, water heaters and windows. See Appendix B for the full list of eligible measures. Air sealing and insulation are eligible for financing when the homeowner receives a comprehensive home energy assessment by a certified home energy auditor. Homeowners can also use Michigan Saves financing for renewable energy measures like solar PV systems and solar thermal systems. Michigan Saves will also finance the remediation of pre-existing environmental hazards or the repair of physical/structural defects that create health and safety issues, so long as the remediation or repairs are coupled with an appropriate efficiency measure and the cause(s) of the environmental hazard or physical defect are addressed.

Michigan Saves loans under this program are unsecured loans for amounts of $1,000 to $30,000 at 7 percent fixed-rate interest with terms of up to 120 months. Some lenders may offer loans at rates below 7 percent. Details are provided in Table 1. See Appendix C for additional details on the underwriting criteria, including required documentation.
**Table 1. Loan Product Details**

<table>
<thead>
<tr>
<th>Structure/Minimum Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eligible properties</strong></td>
</tr>
<tr>
<td><strong>Loan type</strong></td>
</tr>
<tr>
<td><strong>Eligible improvements</strong></td>
</tr>
<tr>
<td><strong>Loan amounts</strong></td>
</tr>
<tr>
<td><strong>Loan term</strong></td>
</tr>
<tr>
<td><strong>Loan rates</strong></td>
</tr>
<tr>
<td><strong>Key Underwriting Criteria</strong></td>
</tr>
</tbody>
</table>

Michigan Saves loans are made directly by participating lenders (see [www.michigansaves.org](http://www.michigansaves.org) for a list of lenders). To streamline the process, the loan application and approval process is centralized. The Michigan Saves loan application center takes loan applications via the Web or phone and provides a decision within minutes. Applications can also be taken directly by participating lenders. Customers make loan payments to the lender. This loan servicing function can also be performed by a utility if there is an agreement in place between the utility and the participating lender(s). Three lenders, MSUFCU, DCECU, and AAC, do not currently use the centralized loan application system. Contact the lender directly to apply. While the Home Energy Loan Program is available statewide, not all lenders are available in all parts of the state, and underwriting criteria vary slightly by lender. Michigan Saves offers lenders the choice of adopting a minimum 640 credit score or a minimum 680 credit score. Currently, all participating lenders allow credit scores of 640 and above. Participating lenders, and their minimum accepted credit score, are listed on the Michigan Saves website.

Numerous organizations are involved in this program—from the program’s marketing to the installation and financing of improvements and program monitoring. Roles of key entities, which are referenced in this guide, are summarized in Table 2.

**Table 2. Entities Involved in Implementing the Home Energy Loan Program**

<table>
<thead>
<tr>
<th>Entity</th>
<th>Roles</th>
</tr>
</thead>
</table>
| **Energy Auditor/Home Energy Assessment Professional** | • Become a Michigan Saves Authorized Contractor to promote financing to customers  
• Conduct comprehensive whole-home energy assessments |
| **Installation Contractor**         | • Become a Michigan Saves Authorized Contractor to promote financing to customers (can be the same company as energy auditor)  
• Install energy-saving or renewable energy improvements under contract with the customer |
### Entity | Roles
--- | ---
**Michigan Saves** | • Direct the activities of the Michigan Saves Loan Center, which accepts and makes decisions on loan applications  
• Provide a credit enhancement to lenders in the form of a loan loss reserve  
• Register and oversee Michigan Saves Authorized Contractors that promote financing under the program  
• Conduct customer satisfaction surveys and quality assurance inspections  
• Monitor program results and impacts
**Participating Lender** | • Originate and service loans
**Customer/Homeowner** | • Select Michigan Saves Authorized Contractor for improvements and apply for loan
**Utilities** | • Offer utility energy optimization programs with customer incentives  
• Help promote Michigan Saves to customers and provide other support (e.g., reaching trade allies)  
• Can service loans as part of an on-bill program (subject to agreement between lender and utility)

### BECOMING AN AUTHORIZED MICHIGAN SAVES CONTRACTOR
All energy-saving or renewable energy improvements and related services that qualify for a Michigan Saves loan must be performed or installed by a Michigan Saves Authorized Contractor (i.e., energy auditors and contractors installing qualifying improvements to homes). To be authorized, the contractor must meet certain minimum requirements, including appropriate insurance, licensure, and Michigan Saves program training, as set forth in Tables 3 and 4 below. These requirements are reflected in the contractor application that must be completed by the contractor to register with Michigan Saves. Authorized Contractors can implement any energy efficiency measure on the eligible measures list (See Appendix B), except air sealing or insulation measures.

### Table 3. Minimum Contractor Qualification Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Documentation Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Business Organization, Financial/Ethical Stability</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State of Michigan Business License</td>
<td>Licensed to do business in State of Michigan</td>
<td>License # and business type (LLC, corporation, etc.) on application form</td>
</tr>
<tr>
<td>Workers’ Compensation or Self-Insurance</td>
<td>Required for all contractors, unless a sole proprietor or limited partnership which are exempt under state law, or a corporation or a limited liability company that has filed for an exclusion</td>
<td>Insurance certificate, proof of sole-proprietorship, or state exclusion form</td>
</tr>
<tr>
<td>General Liability</td>
<td>Required with minimum coverage of $1,000,000 per occurrence, $1,000,000 aggregate</td>
<td>Insurance certificate</td>
</tr>
</tbody>
</table>
Add as "Certificate Holder" and "Additional Insured"  
Contractors must add Michigan Saves as an additional insured to their general liability policy and list Michigan Saves as a certificate holder  
Insurance certificate and copy of endorsement to insurance policies naming Michigan Saves as an additional insured and certificate holder

License/Certification

Skilled Trade License  
Active license in applicable trade (see Table 4), as required by law with no pending actions against the license  
Copy of license; confirmation of no pending action on application form

Federal Lead-Safe Certification*  
Required for any contractor with a residential builders or maintenance and alterations license. Strongly suggested, but optional, for all other contractors  
Proof of successful completion

Training/Education

Michigan Saves training  
Training session on Michigan Saves program requirements and financing (offered online or via DVD)  
Proof of participation

* As of April 22, 2010, the Environmental Protection Agency (EPA) requires that contractors performing renovation, repair, and painting projects that disturb lead-based paint in homes, child care facilities, and schools must be certified and follow specific work practices to prevent lead contamination if the structure was built before 1978. Firms can become certified by completing an application and sending in a fee payment. Applications may take up to 90 days to be approved by the EPA. Individual renovation contractors must complete an EPA-accredited training course in order to receive certification. More information is available at http://www.epa.gov.

Any installation contractor performing work in a trade that requires a state license must have a valid license specific to that trade. The relevant state licenses are listed in Table 4.

Table 4. Summary of State Licensing Requirements for Contractors

<table>
<thead>
<tr>
<th>Skilled Trade</th>
<th>License</th>
<th>Special Designations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler</td>
<td>Boiler Installation</td>
<td>None</td>
</tr>
</tbody>
</table>
| Construction, including insulation,  | Residential Builders or Maintenance and   | For Maintenance and Alterations License  
weatherization                      | Maintenance and Alterations   
                                          | • Insulation work  
                                          | • Screen & storm sash  
                                          | 1. Hydronic heating, cooling, and  
                                          | process piping  
                                          | 2. HVAC equipment†  
                                          | 3. Ductwork  
                                          | 4. Refrigeration  
                                          | 5. Limited heating service†  
                                          | 6. Unlimited heating service  
                                          | 7. Limited refrigeration and air  
                                          | conditioning service†  
                                          | 8. Unlimited refrigeration and air  
                                          | conditioning service  
                                          | 9. N/A for program  
                                          | 10. Specialty License  
                                          | a - Solar                                                                 |
| Mechanical                           | Mechanical Contractor                    |                                                                                      |
**Advanced Contractors**

There is a subset of Authorized Contractors that Michigan Saves classifies as **Advanced Contractors**. To be considered an advanced contractor, contractors must have one or more of the third-party certifications or accreditations related to building science or a specific skilled trade as outlined in Table 5 for the assessment and/or improvement to be conducted or installed. All individuals performing energy assessments must hold one of the recognized certifications. Michigan Saves expects that contractors approved to participate in any Home Performance with Energy Star® program in the State of Michigan would fall under this Advanced Contractor status. Advanced Contractors are noted in contractor search results on the Michigan Saves website.

**Contractor Requirements for Solar PV Installations**

Because of the complex nature of solar photovoltaic systems, Michigan Saves has additional requirements for solar PV installation contractors. These additional requirements reflect Michigan Saves’ desire that only experienced contractors install these systems. Contractors must provide documentation that they meet the following minimum requirements. If a contractor does not hold the appropriate licenses, they should provide a copy of their sub-contractor’s license.

- Master Electricians license or Electrical Contractors license and a Residential Builders license

Contractors should also meet one of the following requirements

- NABCEP Solar PV Installer Certification; or

- NABCEP Solar PV Entry Level Program and two installations totaling 1 kWDC, with at least 1 solar PV system that include an inverter and is subject to a complete electrical permitting and inspection process by local authorities. The contractor must have served as foreman, site supervisor, or site manager, responsible for the quality of the installation, for both installations; or

- Installations of at least 4 solar PV systems, with 3 that include an inverter and are subject to a complete electrical permitting and inspection process by local authorities. The contractor must have served as foreman, site supervisor, or site manager, responsible for the quality of the installation, for at least three of the installations.

Only contractors with the NABCEP Solar PV Installer Certification will be considered Advanced Contractors. All other contractor will be considered authorized.
Table 5. Certification or Accreditation Required for Advanced Contractor

<table>
<thead>
<tr>
<th>Certification</th>
<th>Work Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certification for Energy Auditors</strong></td>
<td></td>
</tr>
<tr>
<td>Building Performance Institute</td>
<td>Whole-home energy assessments</td>
</tr>
<tr>
<td>• Building Analyst</td>
<td></td>
</tr>
<tr>
<td>RESNET</td>
<td></td>
</tr>
<tr>
<td>• Certified HERS Rater with Certificate of Combustion Appliance Zone Testing and work scope writing</td>
<td></td>
</tr>
<tr>
<td>Weatherization Assistance Program</td>
<td></td>
</tr>
<tr>
<td>• Level I Inspector or</td>
<td></td>
</tr>
<tr>
<td>• Level II Inspector</td>
<td></td>
</tr>
<tr>
<td>Laborers International Union of North America</td>
<td></td>
</tr>
<tr>
<td>• Energy Auditor</td>
<td></td>
</tr>
<tr>
<td><strong>Certification for Installation Contractors</strong></td>
<td></td>
</tr>
<tr>
<td>Building Performance Institute</td>
<td>Weatherization and remodeling with Air Sealing and Insulation, Building Envelope, or Building Analyst certifications; Mechanical improvements with AC/Heat Pump and Heating Professional certifications</td>
</tr>
<tr>
<td>• Accredited Contractor</td>
<td></td>
</tr>
<tr>
<td>• AC/Heat Pump Professional Certification</td>
<td></td>
</tr>
<tr>
<td>• Air Sealing and Insulation Certification</td>
<td></td>
</tr>
<tr>
<td>• Building Envelope Professional Certification</td>
<td></td>
</tr>
<tr>
<td>• Building Analyst Certification</td>
<td></td>
</tr>
<tr>
<td>• Heating Professional Certification</td>
<td></td>
</tr>
<tr>
<td>HVAC Excellence</td>
<td>Mechanical</td>
</tr>
<tr>
<td>Any certification</td>
<td></td>
</tr>
<tr>
<td>International Ground Source Heat Pump Association (IGSHPA) Accredited Installer</td>
<td>Geothermal Systems</td>
</tr>
<tr>
<td><strong>Laborers International Union of North America</strong></td>
<td>Weatherization and remodeling</td>
</tr>
<tr>
<td>• Weatherization Technician/Installer</td>
<td></td>
</tr>
<tr>
<td>• Weatherization Supervisor</td>
<td></td>
</tr>
<tr>
<td>National Comfort Institute (NCI)</td>
<td>Mechanical</td>
</tr>
<tr>
<td>• Combustion Air Analyst</td>
<td></td>
</tr>
<tr>
<td>• Residential Air Balancing</td>
<td></td>
</tr>
<tr>
<td>• Solar PV Installer</td>
<td></td>
</tr>
<tr>
<td>• Solar Thermal Installer</td>
<td></td>
</tr>
<tr>
<td><strong>North American Technical Excellence (NATE)</strong></td>
<td>Mechanical</td>
</tr>
<tr>
<td>• Any certification</td>
<td></td>
</tr>
</tbody>
</table>

Michigan Saves reserves the right to require additional qualifications for contractors and will notify contractors of the new requirements. It is expected that any new requirements would be phased in over a 6–8 month period.

See Contractor Agreement and Additional Contractor Requirements section for additional terms and conditions for Authorized Contractors to participate in the program.
Application Process to Become Michigan Saves Authorized Contractor

To perform work under the Michigan Saves Home Energy Loan Program, contractors must apply to Michigan Saves by submitting the Contractor Application and required documentation, paying a one-time non-refundable application fee, and signing the Contractor Agreement (which is embedded in the online contractor application). Contractors may apply to be either a regular Authorized Contractor or an Advanced Contractor under the program. The Contractor Application is available on the Michigan Saves website.

Contractors begin the application process by creating a user name and password at https://www2.michigansaves.org/users/sign_up, which establishes their database account with Michigan Saves. Contractors should retain the user name and password, so they may access their account to submit the required project completion forms. Upon creating a user name and password, contractors then complete and submit the contractor application for review. Embedded within the application is a PayPal link, enabling contractors to pay the non-refundable application fee with a credit card. Contractors may also submit a check to Michigan Saves, if they so choose. Contractors should also register for the next online, contractor training session. A list of upcoming training sessions is available at http://michigansaves.org/event. Contractor training is usually offered on the forth Friday of each month.

Michigan Saves reviews all applications and verifies all documentation. If any information is missing or inadequate, Michigan Saves contacts the individual for updated information. Once a contractor application is approved and after the contractor has attended the training, Michigan Saves provides the contractor with a unique Michigan Saves identification number and adds the contractor to the Michigan Saves Authorized Contractors List. The contractor will then have full access to the Michigan Saves loan center and can begin initiating loans for customers.

Application and documentation review should take approximately one week from the date the application and all documentation are received. Missing information and documentation will extend the length of the review process.

Changes and Other Updates to Contractor Information

Authorized Contractors must notify Michigan Saves of any changes in the information provided in the original application, including, but not limited to, changes in business status, contact information, licenses, insurance, or certification. This can be done by logging into the contractor application system through the Michigan Saves website. Then, a contractor should complete only those portions of the application where there is new information.

Authorized Contractors must immediately notify Michigan Saves if they no longer have any license, insurance, certification, or registration required by the program. Failure to do so could result in a contractor’s suspension or termination from the program.

Michigan Saves Authorized Contractors List

Michigan Saves maintains a database of contractors authorized to perform work under the Michigan Saves loan program and updates this database on a regular basis. The Michigan Saves website contains the most recent version of the Authorized Contractors List.

Michigan Saves does not endorse any particular contractor. The Authorized Contractors List is a directory of contractors that have applied and been authorized to promote the Michigan Saves loan product. While contractors on the Authorized Contractors List have met certain requirements for participation, customers will enter into a direct relationship with the contractor of their choice. The selection of the contractor and
acceptance of the materials used and work performed is the sole responsibility of the customer. Michigan Saves encourages each customer to evaluate potential contractors by reviewing credentials, qualifications, and references.

Michigan Saves monitors all Authorized Contractors to ensure compliance with program guidelines. This includes paperwork reviews and periodic site inspections of homes to verify the installation of improvements. Michigan Saves removes contractors from the Authorized Contractors List for a number of reasons, including but not limited to, repeated failure to follow program guidelines, gross misrepresentation, loss of insurance or license, or criminal convictions. Please see the Quality Assurance section for more information.

**Michigan Saves Program Training**

Michigan Saves Authorized Contractors must participate in Michigan Saves training before performing any work under the Michigan Saves program. The training is offered online each month or through a DVD that can be mailed to the contractor. At least one designated employee for each contractor must attend the training. That individual will serve as the contractor’s point person to train other employees. While they are not required to do so, other employees having direct contact with customers, particularly those promoting financing under the Michigan Saves program, are strongly encouraged to attend the training.

The program training covers the following topics:

- Role of Michigan Saves Authorized Contractors in program
- Program guidelines, including eligible improvements
- Customer eligibility and enrollment process
- Use of forms
- Marketing and communications guidelines
- Quality assurance process

Michigan Saves provides information on training when the contractor’s application is initially approved. A list of upcoming training sessions is available at [http://michigansaves.org/event](http://michigansaves.org/event).

**Michigan Saves Fees Assessed to Contractors**

Authorized contractors shall pay to Michigan Saves a fee of 1.99 percent of the Michigan Saves loan amount for work completed under the program. The proceeds from collected fees are used by Michigan Saves to sustain the program’s operations. The fee is collected in one of two ways:

- For loans issued by a lender that participates in the automatic fee withdrawal, the 1.99 percent will be deducted from the amount sent by the lender to the contractor. The contractor will receive an invoice from Michigan Saves showing that the fee was paid.

- For loans issued by lenders that do not participate in automatic fee withdrawal, contractors will be invoiced by Michigan Saves on a monthly basis. Payment is due 30 days from the invoice date. Failure to pay the fee is grounds for suspension or termination from the program.
ENROLLING CUSTOMERS IN MICHIGAN SAVES

Customer Eligibility

To be eligible for a Michigan Saves loan, the customer must:

- Own the home—owner-occupied, single-family (1–4 unit)
- Meet lender’s underwriting criteria (see Appendix C for details)

The customer can apply for the loan with a co-applicant.

Customers who are denied through the traditional channels (within Michigan Saves or otherwise) can apply to our Opportunity Fund Energy Financing. We have partnered with Opportunity Resource Fund to provide mission based lending to select customers who are denied through traditional lenders. Customers will have to show proof of a previous denial.

Customers who qualify for free or lower-cost weatherization or retrofit programs are encouraged to take advantage of those programs before seeking loans through Michigan Saves. Examples of such programs include: the Weatherization Assistance Program administered by the state and local community action agencies; the Michigan State Housing Development Authority Property Improvement Program; utility income-qualified weatherization programs; and the U.S. Department of Agriculture loan and grant programs. A summary of the eligibility requirements for these programs is provided in Appendix D.

Customers are encouraged to contact individual programs for detailed eligibility requirements and current program information.

Customer Enrollment Process

The Michigan Saves Home Energy Loan Program is contractor driven. In some cases, customers will seek Michigan Saves Authorized Contractors via our online searchable database. In other cases, contractors will promote their affiliation with Michigan Saves through marketing materials. Regardless of the flow of contact between a customer and an Authorized Contractor, the enrollment process remains the same.

**Step 1:** Customer identifies a Michigan Saves Authorized Contractor (to search for an Authorized Contractor, visit [https://www2.michigansaves.org/](https://www2.michigansaves.org/).

**Step 2:** Customer works with contractor to identify the qualifying energy improvements (see the Eligible Improvements section below or Appendix B for details).

**Step 3:** Contractor provides information on the Michigan Saves loan program to the customer. Contractor initiates the loan application process by accessing the loan application center via phone or Internet for the customer.¹ Contractors will be asked to provide their unique six-digit contractor identification number at the initiation of the application. Then, the customer completes the loan application over phone or web and receives a decision within minutes. If approved, the customer works with the individual lender to complete the necessary paperwork, including any documentation required by the lender.

¹ Some lenders, including MSUFCU, AAC, and DCECU, do not use the centralized loan application system. Contractors should contact those lenders directly to apply.
**Step 4:** Contractor installs efficiency improvements based on a final scope of work and contractor’s written contract with customer. For air sealing or insulation projects, contractor also performs the “test-out” diagnostics after installation.

**Step 5:** Contractor obtains the customer’s signature on the Certificate of Completion (COC) and sends the COC to the lender to trigger loan closing and final payment. Payment normally arrives within 7–10 days.

**Step 6:** Contractor logs into their account through the Michigan Saves website (https://www2.michigansaves.org/users/sign_in) and creates a new Specification Sheet (also called Spec Sheet or Project Record). Contractor attaches a copy of the signed Certificate of Completion to this Spec Sheet. Once the Spec Sheet is complete, contractor submits it to Michigan Saves.

See Summary of Forms section for form submittal instructions.

**ELIGIBLE IMPROVEMENTS**

Michigan Saves financing may only be used for qualifying efficiency improvements installed by authorized Michigan Saves contractors. Measures installed by the homeowner or any other individual or company not authorized by Michigan Saves (and not acting as a sub-contractor for an Authorized Contractor) are not eligible for financing. Additionally, improvements must save energy (no cosmetic improvements), unless the improvements are non-energy building performance improvements related to energy efficiency or eligible renewable energy installations.

**Eligible Measures List**

Homeowners can finance any eligible energy efficiency improvement that is implemented by a Michigan Saves Authorized Contractor. Generally, eligible energy efficiency improvements include any measure or piece of equipment with an Energy Star® label, such as air conditioners, air source heat pumps, appliances, boilers, doors, furnaces, geothermal systems, roofs, skylights, water heaters and windows. See Appendix B for the full list of eligible measures and efficiency requirements.

Qualifying appliances may be financed so long as other qualifying improvements (not including other appliances) have been selected. At a minimum, all appliances must be Energy Star® rated. Michigan Saves strongly encourages customers to select appliances from the Consortium for Energy Efficiency (CEE) Super-Efficient Home Appliances Initiative (SEHA), available at [http://library.cee1.org/content/cee-super-efficient-home-appliances-initiative-2012/](http://library.cee1.org/content/cee-super-efficient-home-appliances-initiative-2012/). All appliances and other replaced equipment must be disabled and taken out of service permanently, and either recycled or disposed of in accordance with local, state, and federal laws, codes, and ordinances. Appliances and other replaced equipment may not be re-used.

The installation of single measures from the Eligible Measures List is best suited for customers who need immediate replacement of failed or failing equipment, such as a furnace or water heater. All work must be performed in accordance with all applicable federal, state, and local codes and standards, and contractors must obtain all required permits from local authorities.

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2 SEHA provides a nationally recognized definition of “super-efficiency” through the establishment of performance tiers. Currently, SEHA addresses the residential refrigerator, room air-conditioner, washing machine, and dishwasher markets. Contractors should download the most recent Qualifying Products List from the CEE website if a customer is interested in financing a super-efficient appliance.
Comprehensive Energy Assessment

Air sealing and insulation are only eligible for financing when the homeowner receives a comprehensive home energy assessment by a certified home energy auditor (see Table 5). The energy assessment must meet the Building Performance Institute (BPI) audit requirements and include “test-in” and “test-out” diagnostics and energy modeling of the home (visit www.bpi.org for more information on the audit process). Eligible energy models include Beacon, REMRATE, NEAT, TREAT, HomeCheck, or any other models approved by the U.S. Department of Energy (USDOE). With a comprehensive home energy assessment, homeowners are encouraged to implement multiple measures that achieve cumulative energy savings of 20 percent or more. Whenever recommended by the assessment, health and safety measures must be implemented for the project to be eligible for financing.

Michigan Saves will accept energy assessments and “test-in” diagnostics that were performed by a non-Michigan Saves Authorized Contractor within 12 months of the Michigan Saves project implementation. The Authorized Contractor is still responsible for performing “test-out” diagnostics.

Customers can pay for the energy assessment up front or roll the cost into their loan. If a homeowner does not implement any improvement identified by the energy assessment or is not approved for financing, the homeowner must pay the full cost of the energy assessment.

Rebates for energy audits may be available through some utilities. Customers should check with their electric and natural gas utility for the availability of assessment rebates. See Appendix E for more information.

Renewable Energy Measures

Homeowners can also use Michigan Saves financing for renewable energy measures like solar PV systems and solar thermal systems. Solar photovoltaic systems must be single-installation systems between 1kW and 20 kW in size, and must be interconnected to an electric service provider. The equipment (modules, inverter, and meter if necessary) must be approved by the California Energy Commission or the local utility provider. California Energy Commission lists of approved modules, inverters and meters can be found at http://www.gosolarcalifornia.org/equipment/index.php. The DTE list of eligible inverters can be found at http://www.dteenergy.com/pdfs/cgEquipmentList.pdf.

For all solar PV system installations on residential structures, Authorized Contractors must also obtain appropriate city or municipal building permits. All solar PV installations must include a solar generation meter and meter enclosure. The solar PV system must comply with current Michigan Utility Generator Interconnection Requirements. Contractors must provide a copy of the interconnection agreement or of the authorization letter with the certificate of completion.

At this time, residential wind turbines are not eligible for financing through Michigan Saves.

Non-Energy Building Performance Improvements

Michigan Saves will also finance the remediation of pre-existing environmental hazards or the repair of physical/structural defects that create health and safety issues, so long as the remediation or repairs are coupled with appropriate efficiency measures and the cause(s) of the environmental hazard or physical defect are addressed. Examples of this type of work include:

- Asbestos abatement with air sealing or when installing a new boiler system
- Electric service upgrade, necessary when installing a new heating/cooling unit
- Upgrade of knob and tube wiring in order to install insulation
- Radon and lead abatement work
- The cost of removing an oil tank when done in connection with a heating system replacement
- Repairs to the home due to water damage, molds or mildew, ice dams, or other symptoms of poor building performance, as long as the cause(s) of building performance–related damage are addressed

In each of these examples, the remediation of the environmental hazard is coupled to the installation of an efficiency measure. Michigan Saves will not finance remediation work alone. A customer must also install a related efficiency measure.

Any remediation work must be performed by a contractor who is qualified, and in many cases, licensed for the task. Contractors should not attempt to remediate environmental hazards or correct physical defects for which they are not trained or qualified. Doing so will increase a contractor’s liability and jeopardize their participation in Michigan Saves. Authorized Michigan Saves contractors who are able to remediate environmental hazards should consider obtaining pollution occurrence (also called pollution liability) insurance to protect them from liability.

ADDITIONAL CONTRACTOR REQUIREMENTS

Michigan Saves is very mindful of building public trust and protecting the program’s reputation. Michigan Saves realizes that the loan program could be diminished by the acts of a few unprofessional, “fly-by-night” contractors. To ensure that all Authorized Contractors are committed to providing high-quality workmanship and a high level of professionalism, Michigan Saves asks that all contractors meet the following requirements. Repeated failure to meet these requirements could result in suspension or termination from the program.

Licenses and Certification

- Contractors must comply with laws applicable to them (such as building code, workers compensation, and employment laws), and continuously maintain all appropriate licenses and certification for the work they perform with financing provided through a Michigan Saves loan to the customer.
- Contractor shall only perform the work that contractor is licensed or certified to perform.

Written Estimates

- Contractor must provide customers with written estimates and enter into written contracts with customers for work paid for with a Michigan Saves loan.

Warranties for Labor and Equipment:

- Contractor shall provide the customer a written warranty of labor and materials for a minimum of one year from the date of service. Equipment installed shall carry the manufacturer’s warranty.

Subcontracting Policy

- The Authorized or Advanced Contractor may sub-contract work to other entities that are not Michigan Saves Authorized Contractors, provided the sub-contracted entity is appropriately qualified and has required licenses. Sub-contracted work is subject to quality assurance review, and the Authorized Contractor initiating the project will be responsible for responding to any
corrective actions required as a result of quality assurance review. Only an Advanced Contractor can submit a whole-home assessment project for financing.

**Compliance with Applicable Laws**

- Contractor must comply with all applicable federal, state, and municipal laws, ordinances, and regulations, including, but not limited to, the Michigan Home Solicitation Sales Act, Michigan’s Construction Lien Act, and residential building code. Some of the purchases that will be financed with Michigan Saves loans may be subject to the Michigan Home Solicitation Act. For these sales, the customer has a right to cancel any time prior to midnight of the third business day after the date of the sale.

**Installation Best Practices and Requirements**

- Furnaces must be properly sized, as determined by a computer-generated, Manual J heat loss calculation or other load simulation using industry-recognized energy modeling software. Michigan Saves may request computer-generated load calculations for comparison with the size of the installed unit. Any significant discrepancies would likely trigger a site inspection.
- All equipment installations and the work of all trades shall be performed in accordance with applicable codes, manufacturers’ written instructions and recommendations, industry best practices and standards, and federal, state, and local requirements. Examples of installation best practices include:
  - The Insulation Contractors Association of America (ICAA), 25 Checkpoints for Inspecting Insulation, [http://www.insulate.org/ckpts.html](http://www.insulate.org/ckpts.html).
  - Proper equipment sizing, controls, airflow, and fuel connections must be verified for all combustion appliances.

**Prohibition on Contractor Reserves:**

- Michigan Saves prohibits any participating lender from offering contractor reserves or other incentives or rewards that encourage participating contractors to promote one participating financial institution over another.

**Relationship with Michigan Saves**

- At no time will the contractor represent its business as an agent or representative of Michigan Saves. Any contracts between the contractor and its customers or any third parties shall clearly and conspicuously state that no agency relationship exists between the contractor and Michigan Saves.
Contractors have no power or right to bind Michigan Saves or act on its behalf when dealing with customers or third parties. Contractors and Michigan Saves shall not exercise any control or supervision of one another, nor be responsible for each other in the performance of any service. Notwithstanding the foregoing, Michigan Saves reserves the right to conduct random quality assurance field inspections of work that has been performed pursuant to the terms of the Contractor Agreement and the Quality Assurance section of this guide.

Minimum Number of Projects

To remain in the Michigan Saves Home Energy Loan Program, Authorized Contractors must initiate and complete, in accordance with Michigan Saves requirements, a minimum of one qualifying energy improvement project within 12 months of the date that Authorized Contractor status is granted and each year thereafter.

BILLING AND PAYMENT

Contractor Payment

After the work is satisfactorily completed, the customer and contractor will sign a Certificate of Completion. The contractor is responsible for submitting this form and the Michigan Saves Specification Sheet to both the lender and Michigan Saves (see Summary of Forms section for details). Once the Certificate of Completion is received and the customer has closed the loan, the lender will pay the contractor. The lender will pay the contractor within seven days of receipt of the signed Certificate of Completion and signed loan closing documents. Payment to contractors will be delayed if the customer does not promptly close the loan. Michigan Saves strongly encourages contractors to maintain close communications with their customers to ensure that the loan is closed promptly.

Customer Loan Closing and Payment

Currently, all of the Michigan Saves authorized lenders are credit unions. By law, credit unions can only offer loans to their members. If a customer is not a member of the credit union that is originating and servicing their loan, they will have to join that credit union by opening an account and making a small deposit. This is handled routinely as part of the loan closing process.

If the customer lives within 20 miles of a branch of the credit union that is originating and servicing their loan, the credit union can ask the customer to close the loan in person. Otherwise, the customer can close the loan via mail. Customers who close the loan via mail may need the services of a notary public. Specific details regarding loan closing will be determined when the lender calls the customer a few days after the initial loan approval.

The lender will begin billing the customer after the loan is closed in accordance with their established billing practices. Automatic withdrawal may be offered by the lender or its servicing agent. Customers are permitted to pay off the loan early, and without penalty, if they choose.

Customer Rebates

The Michigan Saves financing program is designed to complement utility rebates, state rebates, contractor incentives, and federal tax credits. For rebates offered by the State of Michigan or individual utilities, the customer must follow the redemption procedures outlined by those entities. While the contractor can help the customer complete the redemption form, the customer is responsible for submitting the rebate form.
The customer is also responsible for claiming any applicable federal tax rebates. The contractor will provide all the necessary product information and costs for customers to include in their tax filing.

Because rebate amounts and availability can change quickly and without notice, Michigan Saves strongly suggests that contractors and customers review utility websites for up-to-date information prior to installing any efficiency measure. Michigan Saves has no control or influence over any third-party rebate program and makes no assurances or guarantees as to rebate amounts or availability.

Links to rebate programs are provided in Appendix E.

The program does not currently provide for a contractor buydown of the interest rate on a Michigan Saves loan. However, contractors may apply other types of incentives before or after the loan is finalized (rebates, cash-back, etc.). The contractor shall report any incentives accepted by the customer on the Specification Sheet.

CUSTOMER INQUIRIES AND COMPLAINTS

Customer inquiries or complaints regarding services or equipment installed should be directed to the contractor. Although Michigan Saves reviews certain credentials of the contractors, Michigan Saves does not “certify,” “approve,” or “qualify” contractors. Michigan Saves cannot endorse or make any warranties as to the work and business practices of a contractor. Michigan Saves encourages each customer to research the contractor’s work through word of mouth, contractor ratings, customer networks such as Angie’s List, and the Better Business Bureau.

If a customer files a complaint with Michigan Saves regarding a contractor’s performance, workmanship, or professionalism, Michigan Saves will note the complaint in the contractor’s permanent file and take appropriate action. Repeated customer complaints can result in a contractor’s suspension or termination from Michigan Saves. Please see the Quality Assurance section for detailed information on contractor status in Michigan Saves.

Customers should direct any billing questions to their lender.

MICHIGAN SAVES ONLINE CONTRACTOR PORTAL

The Michigan Saves Online Contractor Portal (OCP) allows contractors to view and/or revise all of their account and project information in one convenient, central place. To apply to the Michigan Saves program, contractors should submit an application via the OCP. Each project completed using Michigan Saves financing should be entered in to the OCP as an individual record. Certificates of Completion, signed by customers and contractors, should also be uploaded to each project record. Contractors can log in to their account at https://www2.michigansaves.org/users/sign_in.

Contractor Application

Contractors must complete the online Contractor Application and sign the Contractor Agreement (online signatures accepted) to become a Michigan Saves Authorized Contractor. For more detail on how to become an Authorized Contractor, see the Becoming an Authorized Michigan Saves Contractor section in this guide.
Program Forms
The following forms are required for each project financed by Michigan Saves. The table below describes each form, its purpose, and to whom it should be submitted. Both the Certificate of Completion and the Specification Sheet can be found on the OCP.

Table 6. Loan Product Details

<table>
<thead>
<tr>
<th>Form</th>
<th>Purpose/Use</th>
<th>Responsible</th>
<th>Submitted to</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loan application</td>
<td>To determine if approved for Michigan Saves financing</td>
<td>Customer</td>
<td>Loan application center</td>
<td>Online or by phone</td>
</tr>
<tr>
<td>Loan closing documents</td>
<td>To close loan with lender</td>
<td>Customer</td>
<td>Lender</td>
<td>Hardcopy, in branch office or by mail</td>
</tr>
<tr>
<td>Certificate of Completion</td>
<td>Certifies that work is complete and program eligible</td>
<td>Customer and contractor (signatures required)</td>
<td>Lender (original)</td>
<td>Hard copy to lender by mail; Upload copy to OCP for Michigan Saves</td>
</tr>
<tr>
<td>Specification Sheet, aka Project Record</td>
<td>Summarizes the financed improvements and replaced equipment</td>
<td>Contractor</td>
<td>Michigan Saves</td>
<td>OCP</td>
</tr>
</tbody>
</table>

Submittal Instructions

Loan application
The loan application is completed online or over the phone. There is no application form that needs be submitted. In some cases, the customer may need to supply income verification.

Loan closing documents
These documents vary by lender, and are sent by the lender to the customer as soon as the loan is approved. The customer may submit the loan closing documents at any point. Payment will not be made to the contractor until the lender receives the Certificate of Completion, and the customer will not be billed by the lender until the contractor payment has been issued.

Loan closing documents may need to be submitted by the customer in person in a lender branch office, or they may be submitted by mail. If the documents are submitted by mail, the customer will need the service of a notary public.

Certificate of Completion
The contractor must submit the original Certificate of Completion to the lender and a copy to Michigan Saves. The original Certificate of Completion should be sent to the lender at the address that the contractor received at the time of loan approval. A facsimile can also be sent for quicker processing of the payment to the contractor, but the lender must eventually receive the original form.

The contractor must also scan and upload a copy of the Certificate of Completion to Michigan Saves. Copies should be uploaded through the Online Contractor Portal.
Specification sheet

The Specification Sheet (Spec Sheet) or Project Record collects basic information on the home and the work completed. This information can be entered to the online form accessible through the OCP. Note that the Specification Sheet contains sensitive information about the homeowner, including the customer’s name, address, utility, and potentially loan information.

QUALITY ASSURANCE

Contractors promoting Michigan Saves financing must provide high-quality work and comply with Michigan Saves requirements as outlined in this Implementation Guide. Michigan Saves and the third-party Michigan Saves Quality Assurance Coordinator (QAC) will perform certain quality assurance (QA) functions to confirm that—on a consistent basis—the measures financed through Michigan Saves qualify under program guidelines and were installed in accordance with applicable program requirements and industry standards, ensuring that energy savings can reasonably be achieved.

Objectives

The QA objectives are to:

- Clearly define and educate contractors on the program requirements and institute processes and systems to avoid problems where possible and to proactively identify potential issues
- Verify that financed measures are qualifying improvements under program guidelines
- Verify that the contractor followed Michigan Saves program guidelines in performing the work and related paperwork requirements
- Verify that there were no fraudulent or misleading actions on the part of the contractor or auditor
- Confirm customer satisfaction with contractor’s performance and quality of work
- Provide a process for evaluation of contractor performance and workmanship and the resolution of identified problems

QA Procedures

The QA procedures for overall program compliance and installation of measures are summarized in the table below. The procedures combine contractor training and feedback with traditional oversight and energy savings tracking, providing a high level of assurance for homeowners that measures were installed correctly, a check for fraudulent activity, continual improvement from contractors, and reasonably accurate confirmation of energy and cost savings.

The procedures listed in Table 7 generally follow the Home Performance with Energy Star® (HPwES) model, including document reviews, file checks, and site inspections. Michigan Saves will coordinate with any HPwES program in the state, such as the Consumer’s Energy program, to use that program’s quality assurance in lieu of most of these procedures. In addition, to avoid duplication, Michigan Saves will coordinate with third-party accreditation programs on quality assurance activities for contractors that are also participating in the Michigan Saves program.

Table 7. Summary of Quality Assurance Procedures

<table>
<thead>
<tr>
<th>QA measure</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certification of Completion Review</td>
<td>Ensure customer satisfaction and compliance with program guidelines</td>
</tr>
</tbody>
</table>
**QA measure** | **Purpose**
---|---
Specification Sheet Review | Verify that installed measures qualify and provide data for program evaluation
Customer Satisfaction Survey | Confirm contractor work quality and customer satisfaction with overall program—screen for site inspection
Review of Diagnostic Testing Results (whole-home option only) | Verify “test-in” and “test-out” procedures and no health and safety issues—screen for site inspection
Manual J Calculation or Home Energy Model Results Review (periodic) | Check against specification sheet to confirm appropriate sizing of furnace—screen for site inspection
Site Inspections (periodic) | Verify accurate reporting and appropriate installation of measures

**Document Review & File Check**

After **Certificates of Completion** and **Specification Sheets** are uploaded to Michigan Saves through the online contractor portal, Michigan Saves will review the documents for accuracy and completeness. If the documents are not complete, Michigan Saves will send an email to the contractor asking for the missing information. If the missing information is not provided within 2 weeks, Michigan Saves will call or send a second email request and give the contractor another 2 weeks to provide the missing information. If the contractor does not respond, then Michigan Saves will flag the project for site inspection and issue a **Corrective Action Report (CAR)** to the contractor.

**Customer Satisfaction Survey**

Michigan Saves sends a customer satisfaction survey to each customer following the completion of the project. Customers rate their experience with Michigan Saves and the Authorized Contractor. All customers are given the opportunity to provide feedback, and all feedback that is received is anonymized, recorded, and made available in the “rating” column of the contractor search result. Michigan Saves will not provide names or contact information for any customer that submits feedback. Concerns with any customer comments or ratings should be submitted to Michigan Saves staff.

**Site Inspections**

After Michigan Saves reviews the documents for completion and accuracy, the documents are passed to the Quality Assurance Coordinator (QAC). The QAC will also review the Specification Sheets, focusing on the diagnostic test results. Projects with unusual diagnostic test results will be flagged for site inspection. Project files that are judged by Michigan Saves or the QAC to demonstrate potential discrepancies will be prioritized for site inspection. If additional projects need to be inspected to meet the minimum level of site inspections, projects will be selected at random. The QAC will coordinate the site inspection directly with the homeowner.

Table 8 shows the site inspection schedule for the different contractor status designations. Contractors may advance to full status once the inspection schedule has been met and all inspections were satisfactory.

**Table 8. Contractor Inspection Schedule**

<table>
<thead>
<tr>
<th>Michigan Saves Contractor Status</th>
<th>On-Site Inspection Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authorized &amp; Advanced</td>
<td>2 of initial 10 projects</td>
</tr>
<tr>
<td>Provisional</td>
<td></td>
</tr>
</tbody>
</table>
The QAC may request additional documentation in advance of a site inspection. This may include records of window efficiency such as manual J calculations, manufacturer stickers or contractor invoice, or the start-up manual used to calibrate a furnace. **Contractors must have these documents on file and supply them within ten days of the request.**

For projects with qualified measures from the *Eligible Measures List*, site inspectors perform the following tasks:

- Visually and through conversation with homeowner, verify basic information about the home
- Visually confirm that all work identified in work scope has been completed
- Verify that installation of equipment or materials is satisfactory:
  - Confirm reported efficiency rating of installed equipment, where applicable (evidence of window efficiency must be available at the home for purchase verification or available upon request)
  - Verify that furnace was calibrated appropriately (manufacturer’s start up sheet has been completed and left with the homeowner or is available from contractor upon request)
- Verify that no unsafe conditions from installed work exist

For air sealing and insulation projects with a comprehensive energy assessment, site inspectors perform the following tasks:

- Visually and through conversation with homeowner, verify basic information about the home
- Confirm that homeowner received an audit report (visually inspect if possible)
- Visually confirm that all work identified in work scope has been completed
- Verify that installation of equipment or materials is satisfactory:
  - Confirm reported efficiency rating of installed equipment, where applicable (evidence of window efficiency must be available at the home for purchase verification or available upon request)
  - Verify that furnace was calibrated appropriately (manufacturer’s start up sheet has been completed and left with the homeowner or is available from contractor upon request)
  - Visually inspect attic insulation to confirm pre and post R-levels of insulation
  - Inspect other insulation
- Verify that no unsafe conditions from installed work exist
- Verify the CAZ test results including draft, CO spillage and depressurization
- Verify the blower door test-out results
- Verify that duct sealing was completed when applicable and no substantial duct leakage exists with Pressure Pan test
- Verify that there is no obvious failure to comply with applicable laws, codes, and ordinances, such as providing R value and material for insulation to occupant.
- Verify that any health and safety concerns not due to installed work were mentioned to homeowner

**Customer Complaint Process**

Customer inquiries or complaints regarding equipment installed or services will be directed to the contractors. Although Michigan Saves reviews certain credentials of the contractors, Michigan Saves
cannot endorse or make any warranties as to the work and business practices of a contractor. Michigan Saves encourages each customer to research the contractor’s work through word of mouth, contractor ratings, customer networks such as Angie’s List, and the Better Business Bureau. If a customer files a complaint with Michigan Saves regarding a contractor’s performance, workmanship, or professionalism, Michigan Saves will note the complaint in the contractor’s permanent file and take appropriate action. Repeated customer complaints can result in a contractor’s suspension or termination from Michigan Saves.

Customer complaints will be flagged and reviewed by Michigan Saves and the QAC, and may prioritize a site for inspection. Site inspections do not constitute an effort to resolve any disagreement between the customer and the contractor.

**Types of Deficiencies and Corrective Action Reports**

All deficiencies identified during quality assurance reviews and inspections will be categorized as “Safety,” “Workmanship,” or “Programmatic” findings based on the guideline provided below. All deficiencies will require a corrective action, as indicated on the Corrective Action Report.

Any repeated deficiencies may be cause for evaluation of contractor program status or dismissal from the program.

If objective evidence is not supplied indicating that corrective actions have been addressed, including pictures or other such evidence, the QAC may require an additional field inspection to verify the completion of the corrective action in the field.

**Safety Deficiencies**

Safety deficiencies detected during quality assurance inspections must be addressed by the contractor within 48 hours of receipt of Corrective Action Report (CAR), or sooner, as indicated on the report. Short-term corrective actions for all safety CARs must be made at the project site within 48 hours’ notice of the CAR.

Safety deficiencies may include:

- Electric, fire, or structural hazards to occupant that were part of installation
- Failed combustion safety testing results
- Gas leaks
- Improper clearance to combustibles that were part of installation
- Improper pipe wrap installation that creates a combustion hazard
- Serious moisture issues that were not corrected by the installed measures
- Unsafe conditions from installed work that are an immediate risk to occupants
- Violation of Building Airflow Standard
- Other issues as defined

All safety deficiencies will be reported to Michigan Saves immediately.
Workmanship Deficiencies

Workmanship deficiencies detected during inspections must be addressed by the contractor within 14 days of contractor receipt of Corrective Action Report. Examples of workmanship deficiencies include:

- Failure to follow all applicable laws, codes, and ordinances (such as not providing documentation of R value and material for insulation to occupant according to Michigan Residential Energy Code N1101.3.1).
- Failure to provide homeowner with furnace calibration worksheet (start-up sheet)
- HVAC equipment is improperly installed or not operational
- HVAC system is over- or under-sized by more than 20,000 BTUs when compared to Manual J calculation
- Missing CO detector, conforming to UL-2034, per BPI (for whole home assessment projects only)
- Poor workmanship
- Test-out diagnostics incomplete or inaccurate (Example: greater than 10 percent variance between contractor test-out and QAC blower door results)
- Unvented combustion appliances defined by BPI as a health and safety issue left in the home
- Other issues as noted by inspector

Programmatic Deficiencies

Programmatic deficiencies may be issued by the QAC or the Michigan Saves contractor office. Deficiencies must be addressed by the contractor within 30 days of contractor receipt of Corrective Action Report. Examples of programmatic deficiencies include:

- Failure to submit COC or Spec Sheet in a timely manner
- Failure to respond to Safety and Workmanship CARs
- Financing of non-qualifying measures
- Installation of measure was different than that specified on Michigan Saves Specification Sheet
- Installation of eligible measures not recorded on Specification Sheet
- Misrepresentation
- Other issues as noted by inspector

Contractor Response to Corrective Actions Reports

All inspection noncompliance and/or deficiencies, whether safety, workmanship or programmatic will be documented on a Corrective Action Report (CAR). Contractors that receive a CAR must submit a written response to Michigan Saves indicating how they have implemented the corrective action required, and what steps will be taken to prevent future deficiencies. Failure of the contractor to respond by the response time designated on the CAR may result in a change in contractor status. Non-responsive or late response to a CAR may result in the contractor’s probation, suspension, or termination.

The QAC or designee will be responsible for verifying and approving any corrective actions submitted by the contractor. If CARs are incomplete or do not adequately address the deficiency, the contractor will be notified of the deficiency by the QAC and required to resubmit the CAR response.
Corrective Action Response Times

Response times may vary, and contractors should consult the CAR for the response time specific to a given project. However, in general, the contractor response time to correct a deficiency of installation will be as shown below. Contractors may be required to implement longer-term measures to prevent further deficiencies in the future, such as staff training.

- **Safety Corrective Actions**: Must be remedied by the contractor within 48 hours or time noted on CAR.
- **Workmanship Corrective Actions**: If possible, deficiency must be remedied by the contractor within 14 days. If a remedy is not possible (i.e., the contractor has oversized a furnace) then the contractor must submit to Michigan Saves a written action plan to prevent future deficiencies.
- **Programmatic Corrective Actions**: If possible, deficiency must be remedied by the contractor within 30 days. If a remedy is not possible, then the contractor must submit to Michigan Saves a written action plan to prevent future deficiencies.

Written Response

CARs include space for contractors to submit a written response to the deficiencies noted by the inspector. Contractors who receive a CAR should return the CAR with a written response to explain what steps they will take to correct the noted deficiency (short-term corrective actions), as well as what steps they will take to ensure that such deficiencies are not repeated (long-term corrective actions). Long-term corrective actions may include changes to a contractor’s business procedures and staff, or training for current staff. Objective evidence of corrective actions, such as pictures, training records, and updated procedural manuals, must be supplied for all safety and workmanship CARs and as needed for any minor CARs.

Responses and solutions will vary with each individual contractor, but must be accepted by the QAC. In some cases, the QAC may recommend a particular action. If contractors have any questions about the CAR or questions about filling out the CAR, they should contact the QAC.

Appeal Process

In the event of a dispute between a contractor and QAC, the contractor must submit the matter in writing to the QAC. In support of any arguments, the contractor may submit any documents that pertain to the dispute. The QAC will review all appeals and supporting documents, and make a decision. QAC personnel will not investigate any appeal, complaint, or dispute if they have been employed within the last two years by the contractor in question or by any party involved in the appeal, complaint, or dispute in question. The decision, with the appropriate rationale, will be documented and communicated to the contractor. These appeals will be submitted directly to Michigan Saves for review.

If the contractor is dissatisfied with the decision, the QAC will notify the contractor that they may send a copy of the appeal and the outcome to Michigan Saves. The QAC’s decision will be final unless overruled by Michigan Saves.

Corrective Action Examples

The following examples are provided as examples of the type of corrective actions that contractors can provide in the CAR (see Table 9).
### Table 9. Sample Corrective Actions

<table>
<thead>
<tr>
<th>Deficiency</th>
<th>CAR type</th>
<th>Response time</th>
<th>Root cause</th>
<th>Short-term corrective action</th>
<th>Long-term corrective action</th>
<th>Objective evidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas leaks</td>
<td>Safety</td>
<td>24 hours</td>
<td>Improper installation</td>
<td>Leak repaired within 24 hours of notice</td>
<td>Written response notes the mistake made in installation</td>
<td>Customer confirmation of repair</td>
</tr>
<tr>
<td>Failed combustion safety testing results</td>
<td>Safety</td>
<td>48 hours</td>
<td>Improper Installation</td>
<td>Repaired within 48 hours of notice</td>
<td>Staff provided notice that if combustion safety procedures not followed it could result in dismissal or disciplinary action</td>
<td>Customer confirmation of repair</td>
</tr>
<tr>
<td>Oversizing of HVAC equipment</td>
<td>Workmanship</td>
<td>14 days</td>
<td>Manual J Calculation was not correct</td>
<td>Notice to all staff to perform and document manual J calculations</td>
<td>None</td>
<td>Manual J software identified, and sample manual J calculation provided to QAC.</td>
</tr>
<tr>
<td>Installing ineligible measure</td>
<td>Workmanship</td>
<td>14 days</td>
<td>Using outdated copy of Eligible Measures List</td>
<td>Latest version of Eligible Measures List distributed to staff; any equipment in inventory that does not qualify is identified to staff</td>
<td>None</td>
<td>Copy of notice to staff submitted with written response</td>
</tr>
<tr>
<td>Manual J calculation not completed</td>
<td>Workmanship</td>
<td>14 days</td>
<td>Manual J Calculation not completed by staff</td>
<td>Reminder to staff to complete manual J for all</td>
<td>Installation checklist distributed to staff that includes all steps that must be taken when installing a furnace, including sizing furnace with Manual J calculation</td>
<td>Copy of notice to staff and checklist submitted with written response</td>
</tr>
<tr>
<td>HVAC Mfg. Start Up Sheet not completed</td>
<td>Programmatic</td>
<td>30 days</td>
<td>New Staff</td>
<td>Trained all new staff to complete Start-up sheet, leave a copy with homeowner and save the original in the project file</td>
<td>None</td>
<td>Written response includes date of training and number of new staff trained</td>
</tr>
<tr>
<td>Fan Installed but not operating properly</td>
<td>Programmatic</td>
<td>30 days</td>
<td>Faulty fan</td>
<td>Installed new fan</td>
<td>Confirm staff verify proper working of all equipment</td>
<td>Picture of new fan installed attached</td>
</tr>
</tbody>
</table>

**Contractor Participation Status**

Michigan Saves has a system for managing contractor participation. This system is summarized in the Table 10 and provides a general reference for how noncompliance issues or problems would affect the contractor’s participation in the program.
### Table 10. Contractor Participation Status Categories

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provisional</td>
<td>Newly Authorized Contractors. For all contractors, first 10 jobs subject to enhanced quality assurance.</td>
</tr>
<tr>
<td>Full</td>
<td>Authorized or Advanced Contractors that have passed quality assurance inspections and minimum number of jobs.</td>
</tr>
<tr>
<td>Enhanced Supervision</td>
<td>One or more instances of failing to follow program procedures or requirements; may continue to participate in the program and enroll customers but subject to enhanced quality assurance. Written plan to correct performance on existing and future jobs is required.</td>
</tr>
<tr>
<td>Suspended</td>
<td>Temporary ban on program participation due to repeated or serious noncompliance or other factors. May complete existing jobs for which financing already approved but cannot enroll new customers. Subject to enhanced quality assurance, and accreditation organization notified (if applicable). Written plan to correct performance on existing future jobs is required.</td>
</tr>
<tr>
<td>Terminated</td>
<td>Banned from any current or future participation in program due to failure to resolve issues or other reasons, as determined by Michigan Saves. Accreditation organization notified (if applicable).</td>
</tr>
</tbody>
</table>

Movement between the participation status categories is not automatic or sequential, particularly for programmatic and/or occasional instances where program procedures are not followed. Michigan Saves will use its judgment when determining the status of the contractor’s participation based on the number and severity of issues. Depending on the severity, number, and type, the following types of noncompliance issues would affect the contractor’s status in the program:

- Failure to follow program guidelines and requirements, including forms or installation requirements
- Health and safety issue in home resulting from work
- Loss of license or insurance or other requirement
- Misrepresentation
- Convictions or disciplinary action by state or other official body

At all times, Michigan Saves, at its own discretion and without reason, retains the right to suspend and terminate a contractor from participating in the program.

### EVALUATION, MEASUREMENT, AND VERIFICATION

Michigan Saves will monitor the effectiveness and impacts of the loan program. Key metrics include:

- Number of loans
- Loan value (average and total)
- Energy savings (average and total)

Michigan Saves will have access to information on customer participation, measures installed, and utility savings in accordance with authorizations signed by participating customers. Michigan Saves and its officers, directors, and agents will take necessary precautions to protect the confidentiality of the customer and contractor information and use the information for evaluation and program management purposes only.

### MARKETING

Michigan Saves Authorized Contractors will receive a contractor marketing tool kit that provides marketing guidelines and resources to help Authorized Contractors promote the Michigan Saves program to customers. The tool kit includes information such as permitted and required uses of Michigan Saves.
logo and other branding requirements, contractor identification cards, and sample copies of marketing materials.

Key points:

- Printer-quality copies of Michigan Saves marketing materials are available on the Michigan Saves website, including rack cards and program flyers. These can be customized with the contractor’s logo and contact information.
- Contractors can also follow the Michigan Saves branding guidelines to develop their own customized marketing materials with the Michigan Saves logo.
  - Michigan Saves reserves the right to request changes to, or termination of, Michigan Saves Brand Logo presentation that does not meet guidelines.
  - The contractor bears all changes and associated costs.
  - Contractors can request a review of draft materials, but this is not required. Send drafts to registration@michigansaves.org. Expect response within three business days.
- **At no time will the contractor represent its business as an agent or representative of Michigan Saves.** Contractors may represent themselves as Michigan Saves Authorized Contractors. Michigan Saves does not “certify,” “approve,” or “qualify” contractors. Any contracts between the contractor and its customers or any third parties shall clearly and conspicuously express that no agency relationship exists between the contractor and Michigan Saves.
## Appendix A: Glossary

### List of Acronyms and Terms

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advanced contractor</strong></td>
<td>A contractor with one or more of the third-party certifications or accreditations related to building science or a specific skilled trade, who may work within the whole-home energy assessment track and the à la carte eligible measures track.</td>
</tr>
<tr>
<td><strong>Appeal</strong></td>
<td>Process by which a dispute between a Michigan Saves contractor and the Quality Coordinator and/or Michigan Saves is administrated.</td>
</tr>
<tr>
<td><strong>Authorized contractor</strong></td>
<td>A contractor meeting the minimum requirements, including appropriate insurance, licensure, and Michigan Saves program training, who may only work within the à la carte eligible measures track.</td>
</tr>
<tr>
<td><strong>BPI</strong></td>
<td>Building Performance Institute</td>
</tr>
<tr>
<td><strong>CAR</strong></td>
<td>Corrective Action Request. A form used to document a noncompliance/deficiency and subsequent activities related to the correction of the noncompliance/deficiency.</td>
</tr>
<tr>
<td><strong>CAZ</strong></td>
<td>Combustion appliance zone. CAZ testing for dangerous gas build-up around combustion appliances is required for any projects that change the airflow of a home. HERS raters can get certified to perform CAZ testing to qualify as Advanced Contractors.</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>Formal documentation indicating an individual is qualified to perform a specified function or practice a specified skill.</td>
</tr>
<tr>
<td><strong>Comprehensive Energy Assessment Projects</strong></td>
<td>Air sealing or insulation projects must have a comprehensive energy assessment to qualify for financing through Michigan Saves. The energy assessment is performed by a certified energy auditor to the Building Performance Institute (BPI) standard. All certified energy auditors are considered Advanced Contractors in Michigan Saves.</td>
</tr>
<tr>
<td><strong>EEBA</strong></td>
<td>The Energy and Environmental Building Association</td>
</tr>
<tr>
<td><strong>Eligible Measures List Projects</strong></td>
<td>All Authorized Contractors with the appropriate licensing may install measures from the Eligible Measures List. The latest version of the list is available on the Michigan Saves website. This option is designed for homeowners in need of quick improvements, such as a replacement furnace.</td>
</tr>
<tr>
<td><strong>Enhanced Supervision (Contractor Participation Status Category)</strong></td>
<td>One or more instances of failing to follow program procedures or requirements; may continue to participate in the program and enroll customers but subject to enhanced quality assurance and written action plan required.</td>
</tr>
<tr>
<td><strong>Full (Contractor Participation Status Category)</strong></td>
<td>Authorized or Advanced Contractors that have passed quality assurance inspections and minimum number of jobs.</td>
</tr>
<tr>
<td><strong>Home Performance with Energy Star</strong></td>
<td>Home Performance with Energy Star is a program framework sponsored by the US EPA to deliver enhanced rebates to customers for high efficiency home energy upgrades.</td>
</tr>
<tr>
<td><strong>LIUNA</strong></td>
<td>Laborer’s International Union of North America. LiUNA provides a certification program for energy auditors recognized by Michigan Saves.</td>
</tr>
<tr>
<td><strong>Loan Application Center</strong></td>
<td>Central body, accessible by phone or Internet, that receives customer information and approves or recommends an application for denial. The center forwards applications to the lender for closing.</td>
</tr>
<tr>
<td><strong>Michigan Saves</strong></td>
<td>Nonprofit organization that directs the activities of the Michigan Saves Loan Center; Registers and oversees Michigan Saves Authorized Contractors; Monitors program results and impacts.</td>
</tr>
<tr>
<td><strong>NABCEP</strong></td>
<td>North American Board of Certified Energy Practitioners</td>
</tr>
<tr>
<td><strong>NATE</strong></td>
<td>North American Technician Excellence</td>
</tr>
</tbody>
</table>
### List of Acronyms and Terms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NCI</strong></td>
<td>National Comfort Institute. The National Comfort Institute certifies HVAC installers with additional training. This certificate qualifies a contractor for advanced status under the Home Energy Loan Program.</td>
</tr>
<tr>
<td><strong>NEAT</strong></td>
<td>National Energy Audit Tool. Energy modeling software.</td>
</tr>
<tr>
<td><strong>Provisional</strong> (Contractor Participation Status Category)</td>
<td>New Authorized Contractors first 10 jobs subject to enhanced quality assurance or new Advanced Contractors first 14 jobs subject to enhanced quality assurance.</td>
</tr>
<tr>
<td><strong>Quality Assurance (QA)</strong></td>
<td>The systematic monitoring and evaluation of the various aspects of a project, service, or facility to ensure that applicable standards of quality are met.</td>
</tr>
<tr>
<td><strong>Quality Assurance Inspector</strong></td>
<td>Qualified professional assigned by QAC to visit site of Michigan Saves financed projects to review the quality of the installation work on the project and ensure the contractor has met Michigan Saves standards and guidelines.</td>
</tr>
<tr>
<td><strong>Quality Assurance Coordinator (QAC)</strong></td>
<td>Quality Assurance Coordinator. Body designated by Michigan Saves to perform quality assurance functions to confirm that, on a consistent basis, energy saving measures financed through Michigan Saves program guidelines were installed with applicable program requirements and industry standards.</td>
</tr>
<tr>
<td><strong>RESNET</strong></td>
<td>Residential Energy Services Network. RESNET HERS rater certification, with CAZ testing, qualifies a contractor to perform energy assessments under the Home Energy Loan Program.</td>
</tr>
<tr>
<td><strong>Site inspection</strong></td>
<td>Visit by QA Inspector to home where project completed to review quality of installation work.</td>
</tr>
<tr>
<td><strong>Suspended (Contractor Participation Status Category)</strong></td>
<td>Temporary ban on program participation due to repeated or serious noncompliance or other factors; may complete existing jobs for which financing already approved but cannot enroll new customers; subject to enhanced quality assurance, written action plan required, and accreditation organization notified (if applicable).</td>
</tr>
<tr>
<td><strong>Terminated (Contractor Participation Status Category)</strong></td>
<td>Banned from any current or future participation in program due to failure to resolve issues or other reasons, as determined by Michigan Saves; accreditation organization notified (if applicable).</td>
</tr>
<tr>
<td><strong>TREAT</strong></td>
<td>Targeted Retrofit Energy Analysis Tool. Energy modeling software.</td>
</tr>
<tr>
<td><strong>WAP</strong></td>
<td>Weatherization Assistance Program. This federally-funded program is managed by local Community Action Agencies. The program provides up to $6,500 of weatherization services for homeowners who fall below 200% of poverty.</td>
</tr>
</tbody>
</table>
Appendix B: Eligible Measures List

The Eligible Measures List is maintained on the Michigan Saves website. The most recent and ruling version can be found at www.michigansaves.com.
**APPENDIX C: Underwriting Criteria for Michigan Saves Loans**

Michigan Saves Loans must satisfy minimum underwriting standards established by Michigan Saves. These standards, along with the other loan product details, are outlined in the following table. Each lender sets its own underwriting criteria and makes its own decision about which loans to approve.

<table>
<thead>
<tr>
<th>Loan Product Details</th>
<th>Structure/Minimum Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loan type</td>
<td>Unsecured</td>
</tr>
<tr>
<td>Eligible improvements</td>
<td>Energy-saving home improvements recommended by a Michigan SAVES Authorized Contractor.</td>
</tr>
<tr>
<td>Loan amounts</td>
<td>$1,000 to $30,000.</td>
</tr>
<tr>
<td>Loan term</td>
<td>For loan amounts up to $5,000, 12 months per $1,000; for loan amounts $5,000 to $20,000, lengths up to 120 months (e.g., sample monthly payment for 7-year, $6,000 loan at 7% APR is $90.56).</td>
</tr>
<tr>
<td>Loan rates</td>
<td>Not to exceed 7.0% APR per year or such other rate as Michigan Saves may determine on a semi-annual basis. Lenders may offer rates below 7.0% APR. Fixed rate with no prepayment penalty.</td>
</tr>
<tr>
<td>Eligible properties</td>
<td>Owner-occupied, single-family (1–4 unit) homes</td>
</tr>
<tr>
<td>Credit scores</td>
<td></td>
</tr>
<tr>
<td>Minimum FICO (credit score)</td>
<td>Minimum 640 (if there are multiple borrowers, the lower score, regardless of income, must be used for qualification). Each lender may set more stringent underwriting criteria.</td>
</tr>
<tr>
<td>Bankruptcy, foreclosure, repossession</td>
<td>None in at least the last 4 years (nothing opened, must be settled)</td>
</tr>
<tr>
<td>Unpaid collection accounts</td>
<td>No more than $1,000, excluding medical collections</td>
</tr>
<tr>
<td>Judgments and tax liens</td>
<td>Must be paid or in repayment</td>
</tr>
</tbody>
</table>

Lenders make all final underwriting decisions. Loans may be approved, declined, or subject to further review if underwriter determines that FICO score or other factors are inconsistent with actual credit profile.

**Income verification requirements**

Income verification is not required when the loan amount is less than $4,000 OR for any loan amount if the FICO is 720 or greater OR at the underwriter’s discretion. When income verification is required (i.e., the loan amount is $4,000 or more and the FICO is less than 720 OR at the underwriter’s discretion) the following income verification is required:

- **Salaried employment income**
  - One pay stub with YTD earnings dated within 30 days of the application.

- **Retirement income**
  - Award/benefit letter for SSI or pension showing income amount, payment frequency, and start and end dates or
  - A copy of a bank statement showing direct deposit of retirement income.

- **Self-employment income**
  - Two most recent federal income tax returns (first two pages of 1040) plus Schedule C, if applicable.

- **Other income (if applicable)**
  - When income other than primary income is being used to qualify for the loan, such as rental, alimony, or investment income, verification is required.
<table>
<thead>
<tr>
<th>Loan Product Details</th>
<th>Structure/Minimum Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Debt to Income Ratio</strong></td>
<td></td>
</tr>
</tbody>
</table>
| **Total monthly obligations** | - Any loan that has a remaining term of less than six months may be excluded from the calculation.  
- When revolving accounts do not show a minimum payment, use the greater of 3% per month or $10.  
- Real estate taxes and homeowners insurance (if not included in the mortgage payment) must be included in ratio. |
| **Total monthly obligations to total monthly income** | - All qualifying FICO scores – 50% or less |
### Appendix D: Alternative Programs for Free or Low-Cost Home Weatherization

<table>
<thead>
<tr>
<th>Program Title</th>
<th>Qualification</th>
<th>Services offered</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weatherization Assistance Program (WAP)</td>
<td>Homeowners making up to 200 percent of the federal poverty level (about $44,000 a year for a family of four)</td>
<td>Up to $6,500 per home in energy efficiency upgrades such as insulation, air sealing, and furnace safety check</td>
<td>Local community action agency, or the Michigan Community Action Agency Association at 517-321-7500</td>
</tr>
<tr>
<td>Through Michigan Department of Human Services</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property Improvement Program (PIP)</td>
<td>Homeowners with annual household incomes up to $65,000 ($74,750 in certain areas)</td>
<td>Loans from $7,500 to $50,000 for improvements that increase the value or safety of the home. Terms are 4, 6, or 8%, depending on income, over 20 years.</td>
<td>Call 517.373.1974 or visit <a href="http://www.michigan.gov/mshda">www.michigan.gov/mshda</a>, (click on Home Improvement) for details on how to participate.</td>
</tr>
<tr>
<td>Through the Michigan State Housing Development Authority</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Utility rebate programs</td>
<td>Must live within the service area of the utility offering the rebate</td>
<td>Rebates on weatherization installations and energy-efficient appliances are available from most electric and gas service providers in Michigan.</td>
<td>Your electric or gas provider for details on the specific incentives offered.</td>
</tr>
<tr>
<td>Through local electric or natural gas provider</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Repair Loan/Grant</td>
<td>For loans, homeowner must earn below 50 percent of the area median income (For example, 50% of area median income for Kalamazoo County is $31,450). Grants available for those over 62.</td>
<td>Loans of up to $20,000 and grants of up to $7,500 are available for repairs to improve or modernize a home, or to remove health and safety hazards. This loan is a 1% loan that may be repaid over a 20-year period.</td>
<td>Call 517-676-1808 x6 or visit <a href="http://www.rurdev.usda.gov/MI/sfh/sfcontact.htm">http://www.rurdev.usda.gov/MI/sfh/sfcontact.htm</a></td>
</tr>
<tr>
<td>Through Michigan branch of USDA Rural Development</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX E: Rebate Programs

DTE Energy/MichCon
Visit DTE website for latest rebates and other incentives available.
http://yourenergysavings.com/landing.html

Recurring rebate programs include:

- Appliance Recycling Program
- Furnace, Central Air Conditioning and Water Heater Program
- Home Energy Audit Program
- Insulation Rebates
- SolarCurrents program (for Solar PV)

Consumers Energy
Visit Consumers Energy website for latest rebates and other incentives available.
http://www.consumersenergy.com/eeprograms/content.aspx?id=804

Recurring rebate programs include:

- Heating & Cooling Rebates
- Water Heating Rebates
- Energy Star Appliance Rebates
- Appliance Recycling Rebates

Municipal Utilities and Electric Cooperatives
- Escanaba, Marquette, and Stephenson Municipal; Newberry Water and Light; Alger Delta, Cloverland, Great Lakes Energy, HomeWorks Tri-County, Midwest Energy, Ontonagon, Presque Isle, Thumb Cooperatives
  - http://michigan-energy.org/
- Lansing Board of Water & Light

Efficiency United Utilities
  - http://www.efficiencyunited.com/