



Program Overview

Energy Efficiency Program for Business

Program funding

Michigan Public Act 295 - 2008

- *Energy Optimization Surcharge* added to all ratepayers' bills to:
 - Help customers save energy, manage costs
 - Help reduce generation, offset new capacity
- Surcharge is rebated through the program
- Cash incentives:
 - Target specific energy-saving equipment and technologies
 - Encourage energy-efficient building and systems design

PA 341 & 342 became effective April 2017

- Increases the state's renewable energy portfolio
- Increases energy efficiency expectations
 - 35% of electric needs to be met by EE & renewables

Impact of our program

Since 2009

- o **\$186 million** incentives paid.
- o **53,000** projects completed.



Deadlines

The Program Year ends Nov. 30

- No Reservations will be extended beyond Nov. 30
- Final Applications must be submitted within 60 days of project completion date or **Nov. 30, whichever comes first**
- Incomplete Final Applications may be subject to cancellation
- Any Application submitted after Nov. 30 **will** be cancelled

Watch the gauges



Three types of projects:

Prescriptive

- Defined measures for 1-for-1 upgrades
- Defined incentives: per item/kWh/Mcf energy saved
- Project reservations required for some measures; highly recommended for all measures

Custom

- Projects don't fit a prescriptive approach
- Calculated incentives: per kWh/Mcf of energy saved
- Project reservations always required.

New construction/ Major renovation

- New facilities/renovations of facilities, change of use, and adding load
- Systems approach incentives: defined per item/kWh/Mcf energy saved. LEED whole building incentives: based on LEED certification
- Project reservations highly recommended for all projects.

How they work: Prescriptive

Prescriptive Incentives

- Pre-determined measures with specific energy savings and cash incentives in the categories of electric and gas

Electric

- Lighting
- HVAC
- Miscellaneous
- Process

Natural gas

- Hot water & laundry
- HVAC
- Insulation
- Process
- Boiler/furnace tune-up



Prescriptive electric project – Grocery store

LED lighting, anti-sweat heater controls, refrigeration savings from lighting wattage reduction, door gaskets on coolers

Total project cost: \$90,000

Total incentives: \$40,900

Project cost after incentives: \$49,100

Total kWh saved/yr: 887,270

Simple payback: 0.5 years



How they work: Custom

Custom Incentives

- Capital investment projects that are not eligible for a prescriptive incentive may qualify
- Custom incentives are determined on a case-by-case basis and require a reservation application.
- Before any work begins approval is needed. They are paid per kWh or per Mcf saved
- Payback period requirements
 - Electric: >1 year, but <8 years
 - Gas: >1 year

Custom electric project – Hospital
VFD chiller retrofit

Total project cost: \$155,800

Total incentives: \$13,300

Project cost after incentives: \$142,500

Total kWh saved/yr: 190,000

Simple payback: 6.8 years



New construction / major renovation

Types of incentives:

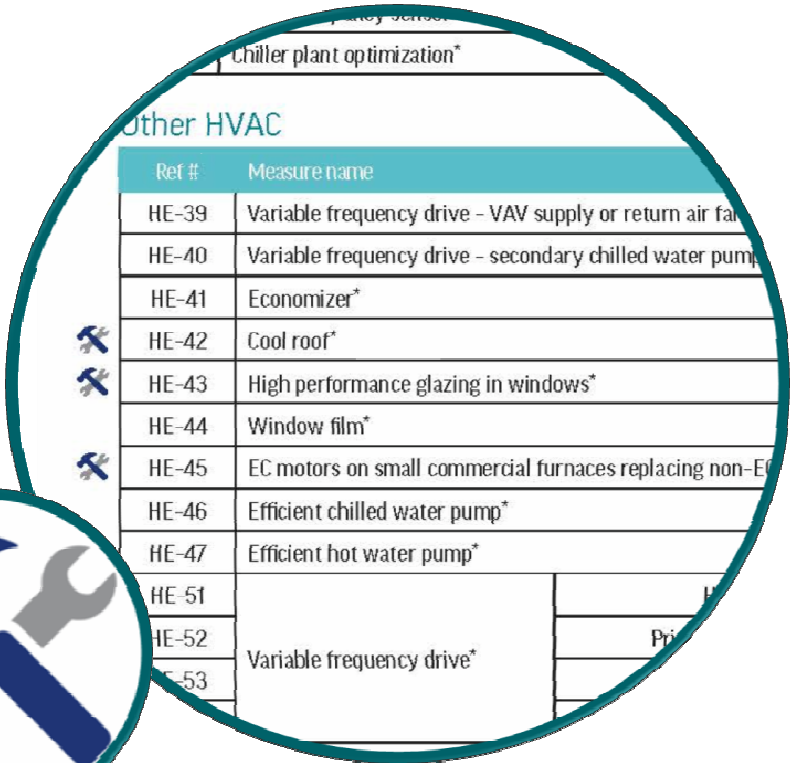
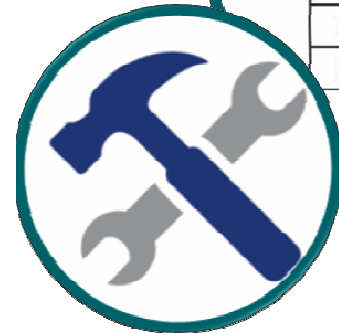
- Systems approach
- LEED whole building approach



New construction / major renovation

How it works:

- Systems approach
 - Incentives available for certain equipment (look for this icon:)
 - Lighting power density
 - Daylighting sensors & controls
 - HVAC
 - Process electric
 - Water heating
 - Refrigeration



| Ref # | Measure name |
|-------|---|
| HE-39 | Variable frequency drive - VAV supply or return air fan |
| HE-40 | Variable frequency drive - secondary chilled water pump |
| HE-41 | Economizer* |
| HE-42 | Cool roof* |
| HE-43 | High performance glazing in windows* |
| HE-44 | Window film* |
| HE-45 | EC motors on small commercial furnaces replacing non-EC |
| HE-46 | Efficient chilled water pump* |
| HE-47 | Efficient hot water pump* |
| HE-51 | |
| HE-52 | |
| HE-53 | Variable frequency drive* |

New construction / major renovation

Lighting power density

- Systems approach
 - Parameters
 - Watts/sq. ft. vs. ASHRAE 90.1 2007
 - Baseline by building area type
 - Results: reduction of at least 10% below baseline
 - COMcheck, lighting power density worksheet or equivalent required



LEED whole building

How it works:

- Now a stand-alone application
- Incentives paid on the savings validated by Green Building Certification Institute (GBCI)

| LEED Level | Incentive | |
|------------------|------------|------------|
| | Electric | Gas |
| Certified/Silver | \$0.04/kWh | \$3/Mcf |
| Gold | \$0.05/kWh | \$3.50/Mcf |
| Platinum | \$0.06/kWh | \$4/Mcf |



The logo features the letters 'DTE' in a bold, dark blue, sans-serif font. To the left of the text is a stylized sunburst graphic composed of numerous thin, light blue lines radiating from a central point, creating a semi-circular shape.

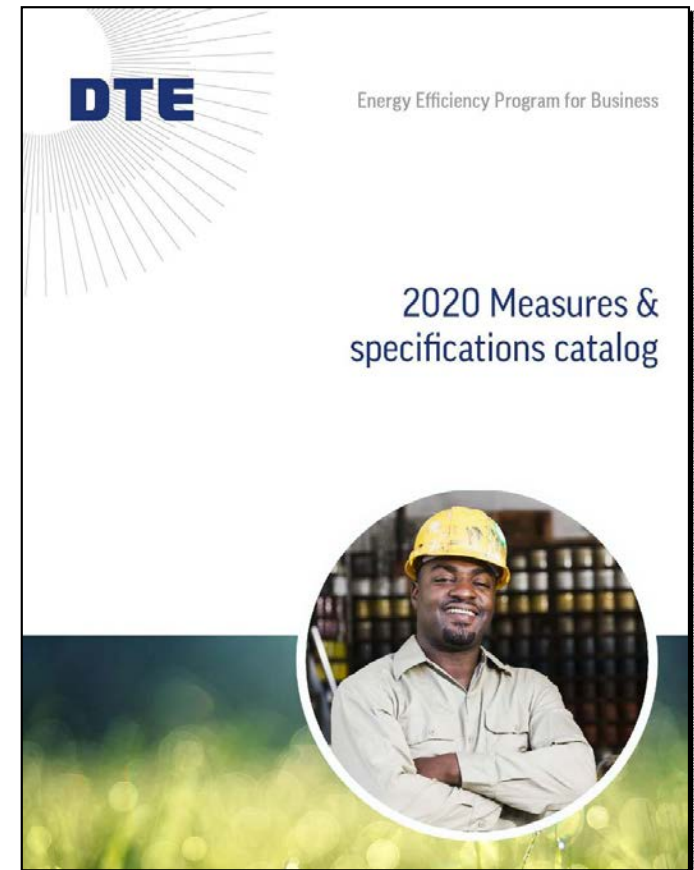
DTE

Catalog & applications

Catalog & applications

Catalog

- Prescriptive, custom & new construction specifications
- Agriculture program specifications
- LEED design review & assistance specifications



Catalog & applications

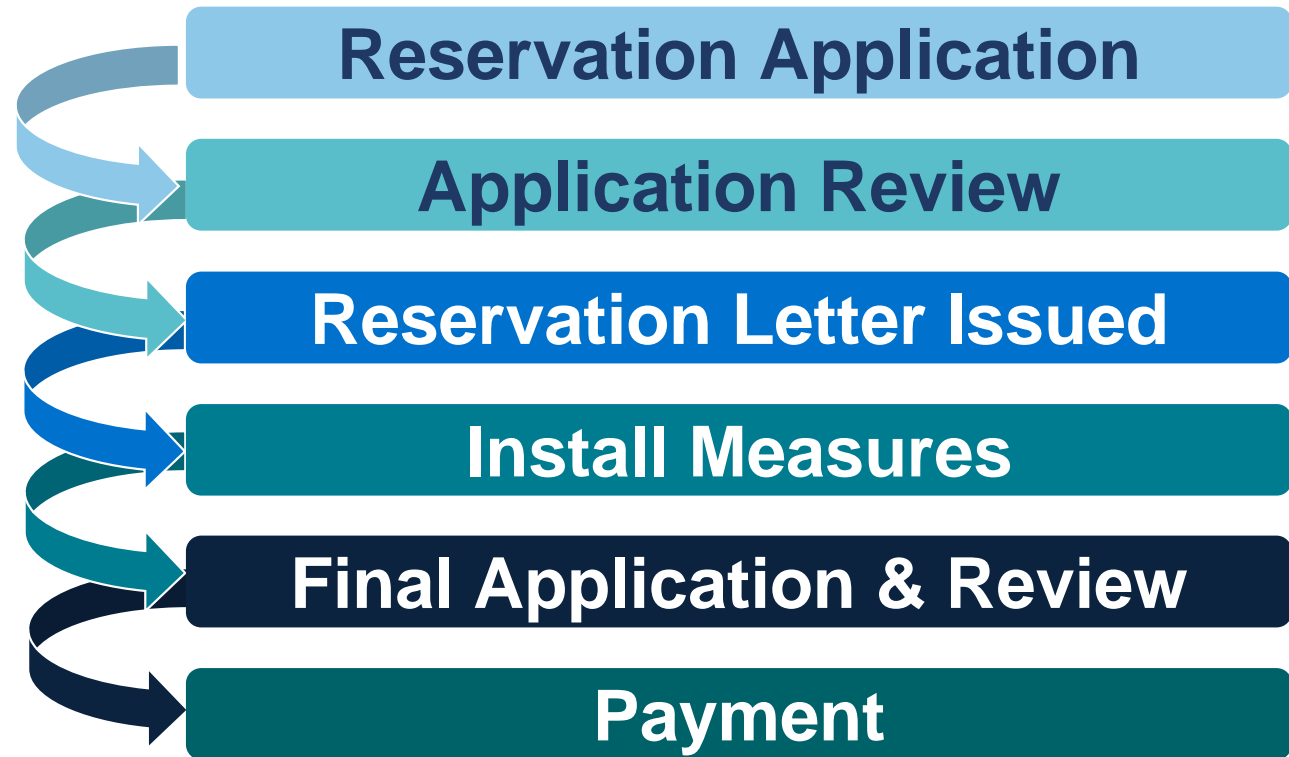
Applications

- Prescriptive, custom & new construction measure worksheets
- Agriculture application
- LEED design review & assistance application
- Use it as a:
 - Reservation application
 - Final application



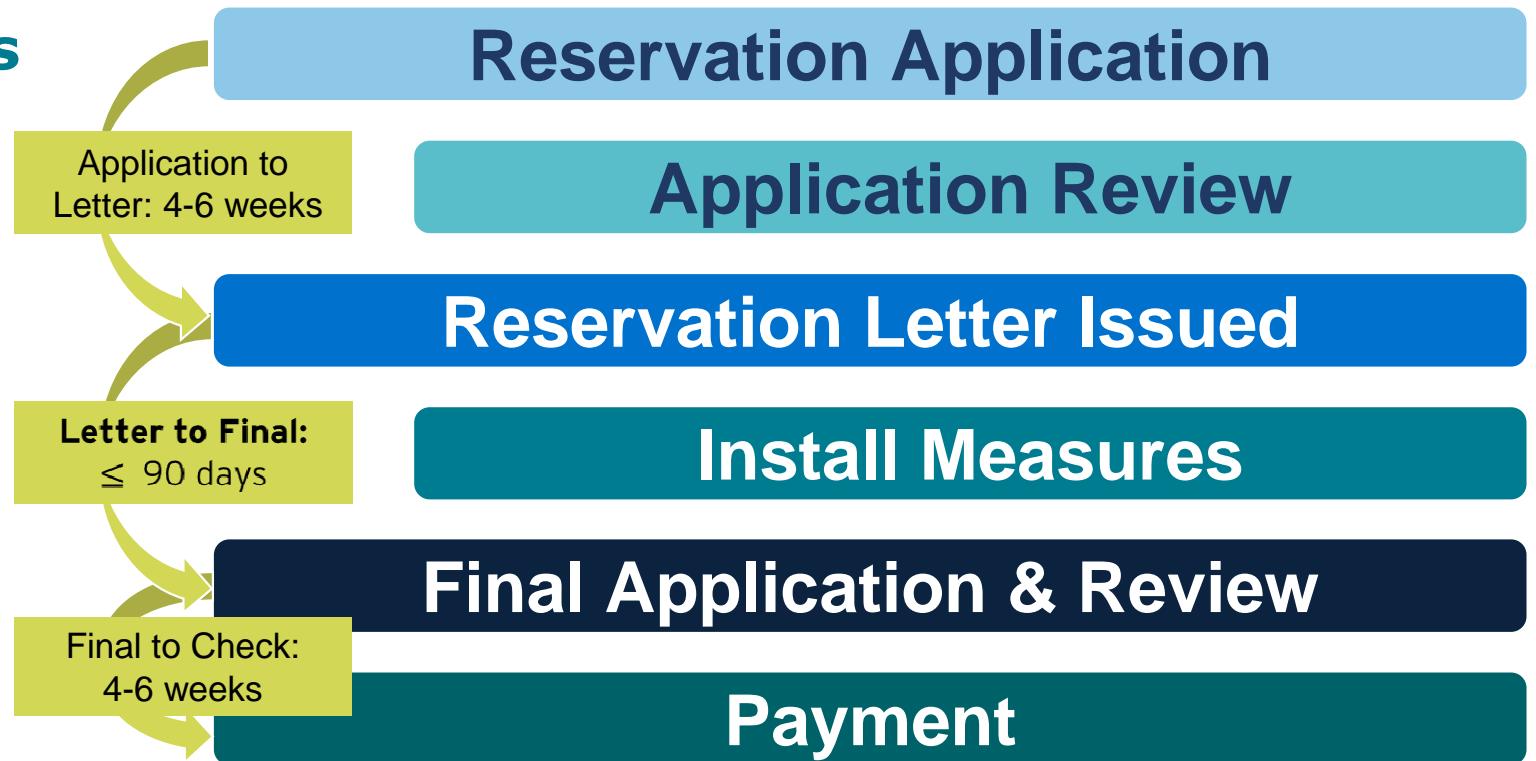
Timeline

The process



Timeline

The process





Thank you!

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