



New Home Construction Program Overviews

2022 PROGRAM YEAR



Agenda

2022 Program Overview and Incentives

Participation Process

Home Registration and Incentive Process

Program Resources

New in 2022

DTE



2022 Single-Family Program Overview and Incentives

DTE ENERGY AND CONSUMERS ENERGY

Program Purpose

To increase the energy efficiency of residential new construction and drive market transformation in Michigan by:

- Partnering with local builders and raters
- Providing builder incentives
- Providing field and technical training, and sales/marketing support
- Conducting comprehensive quality assurance
- Driving increased consumer awareness of and demand for energy-efficient new home construction

Eligibility Requirements

Homes are eligible for incentives based on fuel type provided by utility

Qualifying structures include:

- Site-built single-family residential homes
- Modular Homes
- Detached condominiums
- Connected or detached townhouses (no unit limit)
- Connected housing with individual meters for natural gas and/or electricity, **four units or fewer**, individual heat and domestic hot water equipment, and individual entrances to each unit.
 - Condos, flats, row houses, cooperatives

Manufactured homes are not eligible

Multi-Family properties are not eligible in this program but may participate in:

<http://dteenergy.com/multifamily>



Program Eligibility

Builder must work with a program-approved RESNET Home Energy Rating System® (HERS®) Rater in order to participate in program

Rater must complete two inspections during construction:

1. Pre-Drywall/Rough Inspection (visual inspection of insulation)
2. Final/Post Construction Inspection (includes diagnostic testing - duct blaster and blower door)

All homes must meet program HERS® rating criteria

- DTE = 60 or less
- Consumers Energy = 56 or less, or ENERGY STAR

ENERGY STAR Version 3.1 bonus incentive

- Homes must be verified they meet [Residential New Construction Program Requirements | ENERGY STAR](#)

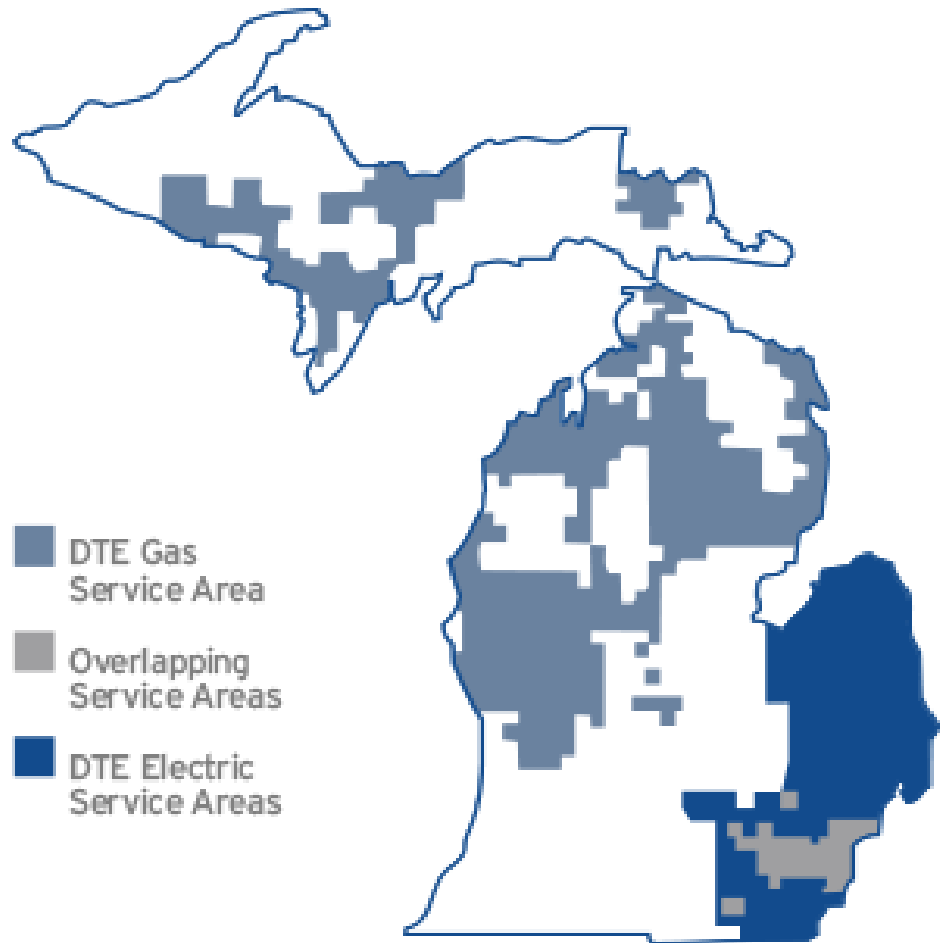
Programs are funded through Dec. 31, 2022 or through depletion of funds

- All homes must be submitted prior to Dec. 31, 2022

DTE Service Area

Search by County or City here:

<https://utilitysearch.apps.lara.state.mi.us/search>



Incentive Structure – Single Family Detached Homes

Eligible connected housing will receive a 25% discounted rebate on equipment and ENERGY STAR bonuses.

For homes with a rough HERS inspection on or after Jan 1, 2022.



Builder Incentives	Silver	Gold	Platinum
Furnace	\$200 96% AFUE	\$250 97% AFUE	
Air Source Heat pump (forced air and ductless mini-split)		\$750 18 SEER+, 9+ HSPF	\$850 19 SEER+, 10+ HSPF
Ground Source Heat Pump		\$800 17 EER+, 9+ HSPF	\$900 19 EER+, 10+ HSPF
Infiltration	\$125 3.25-2.76 ACH50	\$200 2.75-2.26 ACH50	\$275 2.25 or less ACH50
Water Heater (Gas)	\$75 0.66 UEF+ (tanked)	\$100 0.82 UEF+ (tankless)	
Heat Pump Water Heater (Electric)		\$750 3.0 UEF+	\$850 3.5 UEF+
Windows (up to 10 units)		\$100 per Window .24 or less U value	\$150 per Window .20 or less U value
Ceiling Insulation		\$500 R 49-59	\$600 R 60+
Wall Insulation			\$700 R 26+
Slab Insulation			\$700 R 15+
Lighting			\$100 100% LED
Pay for performance	\$10/MCF of natural gas saved \$0.25/kWh of electricity saved		
ENERGY STAR bonus	\$350 per house (natural gas and combo homes) \$300 per house (electric only homes)		

Max Rebates – Single Family Homes and Connected Housing

For homes with a rough HERS
inspection on or after Jan 1, 2022.



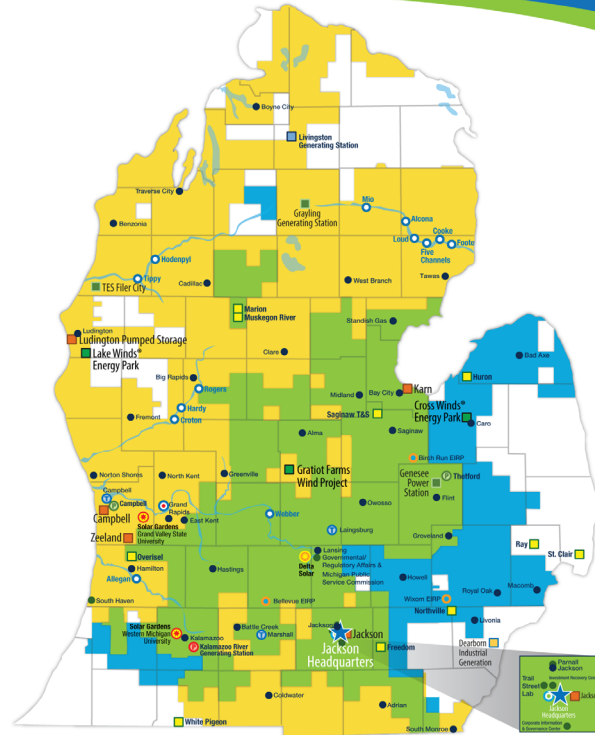
The maximum level of incentives allowed for <u>detached housing</u> are as follows:					
(HERS 60 or less)			(HERS 45 or less, and a cold-climate heat pump must be used as the primary heating/cooling equipment)		
	Standard	ENERGY STAR®		Standard	ENERGY STAR
Electric	\$1,500	\$1,800	Electric*	\$3,500	\$3,800
Combo	\$2,100	\$2,450	Combo	\$3,500	\$3,850
Gas	\$1,300	\$1,650	*If home's only energy provider is DTE, then DTE will honor \$350 ENERGY STAR bonus		

The maximum level of incentives allowed for <u>attached housing</u> are as follows:					
(HERS 60 or less)			(HERS 45 or less, and a cold-climate heat pump must be used as the primary heating/cooling equipment)		
	Standard	ENERGY STAR®		Standard	ENERGY STAR
Electric	\$1,125	\$1,350	Electric*	\$3,500	\$3,800
Combo	\$1,575	\$1,840	Combo	\$3,500	\$3,850
Gas	\$975	\$1,240	*If home's only energy provider is DTE, then DTE will honor \$350 ENERGY STAR bonus		

Consumers Energy Service Area

Search by County or City here:

<https://utilitysearch.apps.lara.state.mi.us/search>



- Hydro ● Solar ● Wind ● Electric Generation ● Natural Gas Compressor ● Peaking Plant ● Office ● Service Center and Office
- Enhanced Infrastructure Replacement Program (EIRP) ● Training Center ● Russell Leadership Center ● Innovation Center
- Electric Service Territory ■ Combination Service Territory ■ Natural Gas Service Territory

CMS Energy Facilities

- Electric Generation (Biomass) ■ Electric Generation (Natural Gas and Waste) ■ Electric Generation (Natural Gas) ● Peaking Plant ● Solar

Outside Michigan: Northwest Ohio Wind (Ohio) Craven County Wood Energy (North Carolina) Flambeau Solar (Wisconsin)

Consumers Energy – Incentive Structure

Builder must work with a Certified RESNET Home Energy Rating System (HERS) Rater in order to participate in the program. All rebates will be paid to the builder. Qualifying homes must:

- Meet ENERGY STAR® requirements to be eligible for the ENERGY STAR rebate, **or**
- Meet a HERS Index score of 56 or lower for a standard rebate.

	Consumers Energy New Home Construction Builder Rebates				
	Single Family Homes			Townhomes/Duplexes	
	ENERGY STAR HERS 57 or More	ENERGY STAR HERS 56 or Less	HERS 56 or Less	ENERGY STAR or HERS 56 or Less	Townhome/Duplex Savings Bonuses
Combination (Natural Gas and Electric) Service With AC	\$1,000	\$2,000	\$1,000	\$700	Met both MCF and KWH criteria – \$300
Natural Gas-Only Service	\$700	\$1,400	\$700	\$550	Savings of 30 MCF or Greater – \$150
Electric-Only Service	\$300	\$600	\$300	\$150	Savings of 1000 KWH or Greater – \$150
Combination Without AC	\$700	\$1,400	\$700	\$550	
Electric-Only With Heat Pump/Geothermal	\$1,000	\$2,000	\$1,000	\$850	

DTE



Participation Process

Program Participation Process

Complete program enrollment

- Builders and Raters must agree to Program Terms and Conditions
 - [DTE Online Application](#)
 - [Consumers Energy PDF Application](#)

Support QA/QC efforts

Builder must work with program participating rater

Rater must submit home applications on behalf of Builder

Facilitation of QA/QC

Each program participant will be required to participate in program QA/QC (above what RESNET requires)

QA/QC team is comprised of ICF staff

- ICF is an accredited, non-competing HERS Training Provider

Communication between builders/raters/program staff is required to ensure coordination and minimize rebate delays

Up to 5% of total program participating homes will be randomly selected

- Non-intrusive, will not select a home that is move-in ready
- A PDF of home plans may be requested

DTE



Home Registration and Incentive Process

Who Will Submit Program Incentive Applications

Rater must submit incentive applications, via Ekotrope, on behalf of builder

- A Confirmed Ekotrope or REM/Rate file is required for each registered home
- Use up-to-date Ekotrope Version in accordance with RESNET requirements.



Raters must:

Action	Reason	Timing	Status
Register Homes	Reserve incentives	As soon as you have home lot/address	"Under Construction"
Submit Final Ratings	Expedite builder incentives	Within two weeks of completion	"Final Submission"
Cancel Ineligible Homes	Avoid confusion for anticipated incentives	Upon learning HERS score does not qualify or home does not meet code	"Canceled"



How Do Raters Know The Estimated Rebate Amount

The screenshot shows the 'ekotrope' software interface for a project named 'DJB52143'. The interface is divided into several sections:

- General Info:** Fields for Name (DJB52143), Floors on or Above Grade (1), Number of Bedrooms (3), Conditioned Floor Area [ft²] (3,308), Infiltration Volume [ft³] (29,912), Residence Type (Single family detached), Floor Number (1), Total Units in Building (1), Unconditioned, attached garage? (checked), and Has Electric Vehicle Ready Space? (unchecked).
- Compliance:** A table showing energy performance metrics:

Metric	Value	Change
HERS®	55	0
Annual Energy Bill	\$1,269	\$0
HERS		Warning icon
Michigan 2015 Performance		Pass icon
Michigan 2015 Prescriptive		Warning icon
Consumers Energy Michigan		Warning icon
DTE Rebate Program		Warning icon
- Quick Results:** A section titled 'Rebate' with a blue information icon (i) and a red box highlighting the following details:
 - Total rebate: \$1,000.00
 - Furnace - Silver: \$200.00
 - Infiltration - Gold: \$200.00
 - Water Heater (tank) - Silver: \$75.00
 - Gas rebate: \$637.26
 - Maximum allowed rebate: \$1,000.00 + \$350 ENERGY (STAR bonus)



How Often Will Program Incentives Be Paid

DTE and Consumers Energy mail incentive checks directly to Builders on a weekly basis

All homes approved within the same week will be paid in the form of one incentive check from DTE and one incentive check from Consumers Energy

In order to process incentive, home must have an active residential account

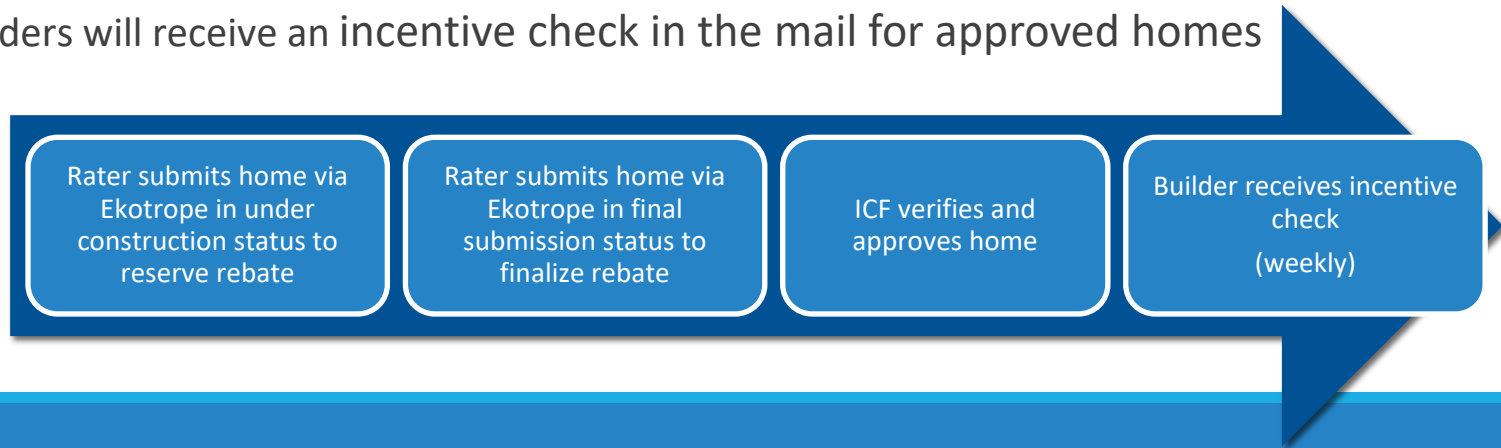
- Projects submitted with Commercial and Industrial accounts will be updated at the beginning of the following month and processed in the first week

Home Submission Summary

An email will be sent to Builders and Raters every Friday, automatically, detailing home submission status.

- If builder or rater need an update at any other time, then email each program:
 - DTENewHomes@icf.com
 - CENewHomes@icf.com

Builders will receive an incentive check in the mail for approved homes



DTE



Program Resources

Weekly Reports

Friday Morning Builders/Raters Report automated email with excel file

- Report goes to one primary email per builder/rater
 - Contact program if email recipient needs to be updated or changed
- Emailed from:
 - SightlineReporting@icf.com
 - Tip: check junk mail, add email as 'safe sender'
- Reports also available upon request

Consumers Energy New Homes Weekly Report

Builder	Report was executed on: 01/25/2021
ABCD Builders	
Paid	104
Final Submission (Approved)	5
Final Submission(Pending Approved)	10
Pending Account Validation	29
Under Construction Status	14
Total	246

Summary | Homes Paid | Homes Approved for Payment | Homes in Final Status | Homes Under Construction | Pending Acct Verification

Weekly Reports

Summary tab with status definitions:

- **Paid:** Incentive check mailed
- **Final Submission (Approved):** Project approved, and check will be mailed in about 2 weeks
- **Final Submission (Pending Approved):** Project has been received, but has not been reviewed
- **Pending Account Validation:** Project held awaiting residential account validation/other information
- **Under Construction:** Project in system awaiting final testing

Builder	Report was executed on: 01/25/2021
ABCD Builders	
Paid	104
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Total	246

Weekly Reports

Homes Paid Tab

Rater Submitted Information

- Project Name, Project Community Name, Lot/Unit #, City, Utility

Home Data

- HERS Index, energy savings, equipment information

Check Date and Project Number

- Each check stub includes project numbers for each home incentive paid and align with weekly reports

Check stub example

YOUR CONSUMERS ENERGY REBATE CHECK IS ATTACHED. You've taken a big step towards making your home and Michigan more energy efficient, cleaner and safer! For more information on other rebates and energy saving tips, visit ConsumersEnergy.com/myhome. Thank you for participating!
CONHPS15457682●●, CONHPS15457682●●, CONHPS15460194●●, CONHPS15460194●●

Weekly Reports

Homes Under Construction Tab

Project Number	Builder	Project Name	Project Community Name	Lot/Unit #	City	State	Zip	Gas Utility Company(Provided by Rater)	Electric Utility Company(Provided by Rater)	Customer Type (Validated)	Expected Completion Date
CONHPS1544922555	ABCD Builders	RCW010	ABC	10	FOWLERVILLE	MI	48836	Consumers Energy	Other		08/02/2020
CONHPS1544927555	ABCD Builders	OCH005	123	5	SPRINGFIELD	MI	49037	Other	Consumers Energy		08/14/2020
CONHPS1544927125	ABCD Builders	OGM059	ABC	59	HOWELL	MI	48855	Consumers Energy	Other		08/12/2020
CONHPS1544927124	ABCD Builders	STG078	123	078	BYRON CENTER	MI	49315	Other	Consumers Energy		08/10/2020
CONHPS1546339123	ABCD Builders	JJF50349	ABC	56	FOWLERVILLE	MI	48836	Consumers Energy	Other		10/09/2020

Rater may submit projects that are under construction. Projects with past expected completion dates will be highlighted in red.

Rater Action Required:

- Submit backlogged final ratings, or
- Update expected completion date

Builder Action Required:

- Ask rater if additional information is needed for rating to be submitted, or
- Provide Rater with updated expected completion date

Technical Bulletins

Program participants receive technical and program bulletins, the first Tuesday of every month

Topics Include:

- Air Sealing Checklists
- Duct Quality Installation
- Ventilation Best Practices
- Construction Safety
- Insulation Improvements
- Window Selection




Let us know if you have a request for a specific topic!

TECHNICAL BULLETIN: INSULATION AND TOP PLATE GASKET ISSUES

Insulation installation and canned foam top plate gaskets have the potential for large impacts on energy savings and comfort in the home. This technical bulletin covers some frequently overlooked items that builders and raters should check when inspecting insulation and canned foam top plate gasket installation.

Common insulation problem areas:

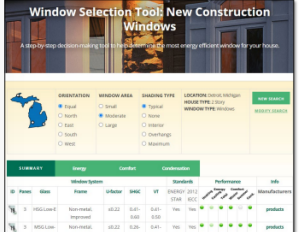
- 1. Electrical wires, Termite Systems, and 2x4 obstructions:** Areas approximately 1' from the bottom plate tend to have termite systems or 2x4 obstructions. In addition, electrical wires can easily be found by looking for metal plates on studs. Insulation should be cut to fit around these obstructions to comply with RESNET's grade 1 definition. For a video description on RESNET's grading definitions, follow this [link](#).
- 2. Rolled or tucked batts:** Inspect the top and bottom of wall cavities. Often, insulators roll or fold insulation into the bottom or top of wall cavities instead of trimming insulation to fit cavities properly.
- 3. Overfilled cavities:** To save time, insulators will place small pieces of batts behind wires and place a full batt over top of the wire. This does not constitute grade 1 installation and causes compressions and overfilling.

An example of termite systems and a 2x4 obstruction

An example of an overfilled cavity with a plate highlighting the wire location

An example of batts not cut to fit wall cavities with plates showing wire locations



Window Selection Tool: New Construction Windows

A step-by-step decision-making tool to help determine the most energy efficient window for your home.

The window selection process, the Efficient Windows Collaborative (EWC) the National Fenestration Rating Council (NFRC) to create a variety of [design guidance](#), [window installation guidance](#), and [window selection](#).

[Window Tool](#) takes you through a series of design conditions pertaining to a window. It is a step-by-step decision-making tool to help determine the best window for your build and helps to locate manufacturers who offer products within the categories shown.

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on visit
www.dte.org/new-process/

- Rated Components

can be found on all ENERGY STAR certified windows, doors, and skylights and provides performance ratings in five categories:

Energy Efficiency Learning Center

ICF's Energy Efficiency Learning Center allows program participants to complete e-learning trainings.

Trainings are made available for free to participants, courses cover:

- Technical Building Science Topics (HVAC, Heat Pumps, Manual J, etc.)
- Marketing and Sales
- Programmatic Topics
- Technical Bulletins Archive
- COVID-19 Resources

If you, or any employee are interested in signing up for the EELC please email us!

- [Consumersenergy.learnupon.com](https://www.consumersenergy.learnupon.com)
- [Dte.learnupon.com](https://dte.learnupon.com)

The screenshot displays the DTE Energy Efficiency Learning Center interface. At the top, there is a search bar and user profile information. Below this, a 'Resources' section is visible, featuring a 'Filter Resources' dropdown menu set to 'New Homes(19)'. A list of technical bulletins is shown, including 'New Homes Technical Bulletin: Window Selection', 'New Homes Technical Bulletin: Grading Insulation Installation', 'New Homes Technical Bulletin: Construction Safety Tips', 'New Homes Technical Bulletin: Mechanical Ventilation Strategies', and 'New Homes Technical Bulletin: Sealed Combustion Venting'. Each entry includes a 'Download' link and the last update date and file size.

Below the resources, there is a 'Total Number of Courses' section showing 22 enrolled courses and 17 completed courses. A 'Recent Activity' section lists downloaded resources like 'New Home Builder Social Media Toolkit Training' and 'Social Media Best Practices for Contractors - 2019/2020 Update'. A detailed view of the 'New Home Builder Social Media Toolkit Training' is shown, indicating it is 'In Progress' with 33% completion and a 'Resume' button.

On-site Training

Builders may be encouraged to participate in training provided under the Program

Technical/Field Training

- Code compliance
- ENERGY STAR compliance
- Envelope air sealing
- Duct air sealing
- Insulation improvements

Equipment Loaning

- ICF Field Staff has equipment that can be loaned to raters while your equipment is being repaired or calibrated



Marketing Resources

Consumers Energy Portal (for Builder/Rater)

<https://consumersenergytradeally.com/>

- Customer brochure for builders
- Builder recruitment brochure for raters

Find a Builder/Contractor Site (for Customers)

<https://consumersenergyeed.com/>

Marketing Resources

DTE Portal (for Builder/Rater)

michiganrebates.com/newhomes

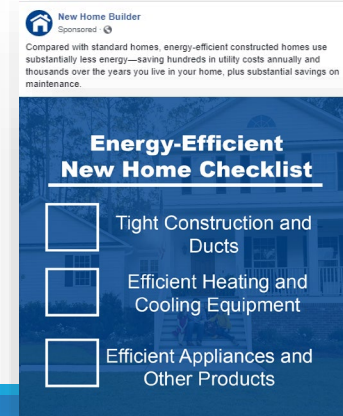
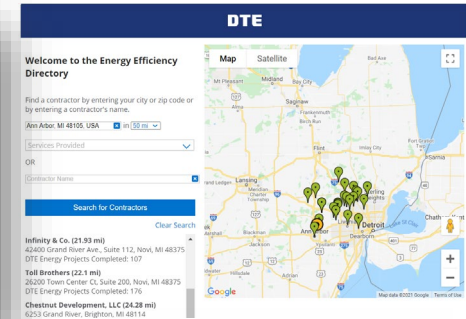
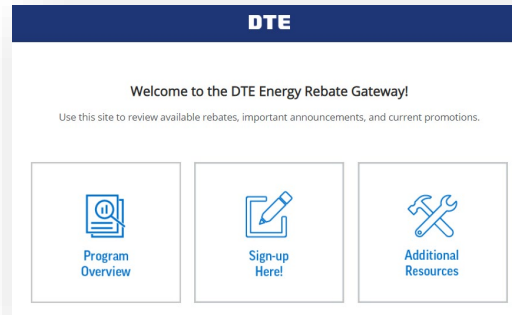
- Customer brochure for builders
- Builder recruitment flyer for raters

Find a Builder/Contractor Site (for Customers)

<http://dteenergy.com/eed>

Social Media Marketing

- Social Media Toolkit to market your company
 - 2 examples of content (pictured on right)
- Annual Facebook Campaign Ad to generate leads





New in 2022

HVAC Contractor and Rater ENERGY STAR Training Scholarship Pilot (Summer and Fall)

- Increase the number of ENERGY STAR certified trades to support ENERGY STAR homebuilding

Automated Design Assistance Tool (Ekotrope Add-on)

- Piloted in 2021, determined to be successful/useful tool
- Embedded Savings Recommendations
- Rebate opportunities are automatically calculated and shown to the rater

Single rebate form/tab in Ekotrope for Raters

- DTE and Consumers Energy merge

2022 Excellence and Energy Efficiency Banquets

- Award winners and top performers will be invited



Energy

ASK ABOUT ENERGY STAR CERTIFIED HOMES

ekotrope™ My Projects

General Info \$299 Envelope \$218 Fenestration \$916 Mechanical Water

Site Info Rating Info Utility Rates Consumers/DTE

Submission Status Final Submission

Enrolled Builder (DTE) Toll Brothers

Enrolled Builder (Consumers) Toll Brothers

Expected Start Date Wednesday January 1, 2020

Rough Inspection Date Wednesday December 1, 2021

Expected Completion Date Monday April 25, 2022

Electric Meter Number 12345

Gas Meter Number 67890

Electric Utility DTE Energy

Gas Utility Consumers Energy

Cancel Save



Resource Links

[Consumers Energy Builder/Rater Portal](#)

[Rater Contact Directory](#)

[DTE Energy Builder/Rater Portal](#)

[Energy Star Certification Benefits](#)

[DTE Energy - EELC](#)

[Federal Tax Credits](#) (extended through 2021)

[Consumers Energy - EELC](#)

[2021 IECC](#) (MI is still on 2015 code)

Contact Us



DTE Program Management

- DTENewHomes@icf.com

Consumers Energy Program Management

- CENewHomes@icf.com

ICF Field Team

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