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Michiganders count on us for service



71,039 miles of electrical distribution lines



workforce consisting of employees and contractors



Clean Energy Plan

Help your clients join over 700,000 Michigan homeowners who have saved more than \$1.2 billion on energy bills since 2009.

more than 27,000

miles of natural gas distribution pipeline

5,885 **MEGAWATTS** of generating capacity



Program Implementation Contractor

50,000+ New homes incentivized/year nationally

25+ Utilities served

25 New construction programs

30+ Years of new home efficiency experience





Meet the Team



Carrie Harkness
Portfolio Manager
Residential Product Innovation
Consumers Energy



Sheryl Tembe, PhD
Portfolio Manager
Residential Pilots & Innovation
ICF



Rob Murawski
Pilot Technical Lead
New Home Construction
ICF



Patrick McCafferty
Account Manager
New Home Construction
ICF



Pilot Purpose & Participation

Phase 1

Pilot Term: 2020 / 2021 Participation: 4 Homes Housing Type: Income-Qualified

Deploy a prescribed measure mix to demonstrate the performance of super-efficient, allelectric homes with ccASHP and significant solar PV

- ENERGY STAR Homes
- Average HERS 41 before solar
- 70% modeled energy savings before solar

Phase 2

Pilot Term: 2022 / 2024 Participation: 50+

Homes

Housing Type: Income-Qualified & Market-Rate

Explore builder
barriers and
scalability of superefficient, all-electric
homes built to HERS
40 and below and
PV-ready or have
PV-installed

- 12 Market Rate
- 39 Income Qualified
- Average HERS <38
- \$938,000 Total Incentives

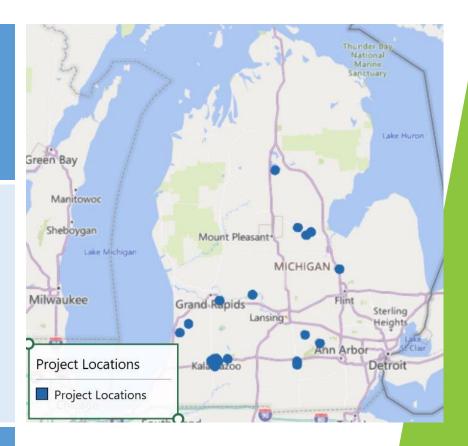
Phase 3

Pilot Term: 2024 / 2025

Target: 50 Homes

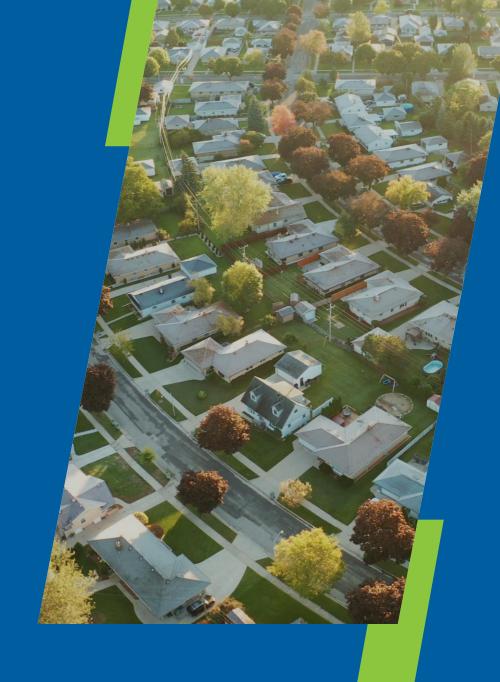
Test Michigan
market acceptance
of advanced
certification
standards and best
practices for allelectric home
construction

- ENERGY STAR NextGen
- DOE ZERH
- PHI / PHIUS





Overview & Incentives







Phase 3 Pilot April 1, 2024 – December 31, 2025

Encourages the residential new construction industry to build homes within the Consumers Energy electric and combo service territories that meet the following specifications:

- 1. All-electric home with heat pump as primary heating and electric water heating
- 2. PV-Ready or PV installed on-site
- 3. Certified home
 - ENERGY STAR NextGen®
 - DOE Zero Energy Ready[™]
 - Passive House Institute[™] / PHIUS[™]



Incentive Structure

Homes completed between April 1, 2024 – December 31, 2025

Home Certification Pathway	Incentive from Consumers Energy	Eligible for Federal Tax Credit*
ENERGY STAR NextGen™	\$5,000	\$2,500
DOE Zero Energy Ready Home™ v2	\$10,000	\$5,000
Passive House Institute™ or PHIUS™	\$20,000	\$5,000

Note: Builders who do not meet requirements for any of the individual pathways may be directed to the standard New Home program.

It will be important, as builders and raters trying to meet requirements, to have constructive conversations regarding project goals and what measures are needed to make that happen.

Please reach out to the program team for any help you may need!



Recommended Energy Efficiency Measures/Requirements

Requirements Note:

- Ductwork entirely in conditioned space
- EPA Indoor airPLUS for DOE ZERH and PHI / PHIUS
- DOE ZERH PV-Ready Checklist

Home Component	Recommended Measure	
Air-Source Heat Pump or Mini-Split Heat Pump*	Selected from NEEP's ccASHP Product List	
Whole-Home Ventilation	HRV or ERV	
Heat Pump Water Heater	UEF 2.00+	
Infiltration	1.50 ACH or Less	
Insulation	Ceiling/Attic Insulation R-Value: 60+ Wall Insulation R-Value: 30+ Basement or Slab Insulation R-Value: 20+	
ENERGY STAR® Certified Windows	U-Value: 0.20 or Less	
Cooktop	Induction	
ENERGY STAR Certified Appliances [†]	CEE Tier II	
ENERGY STAR LED	100% LED	

*For Non-Ducted systems: HSPF > 10, For Ducted systems: HSPF > 9, COP @5°F > 1.75 (at maximum capacity operation), SEER > 15
†Tier II – This level signifies energy efficiency at 25% above government mandate



Home Eligibility Requirements

- Homes must be located within Consumers Energy electric, and combination (electric and natural gas) service territories as evidenced by city/town, zip code, and ultimately a Consumer Energy electric meter number.
- Qualifying structures must be site-built single-family residential homes, duplexes or townhomes.
- Home must show proof of being PV-ready with completion of <u>DOE's Zero Energy</u>
 Ready Home PV-Ready Checklist or have PV installed on-site.
- Home must have Consumers Energy electric for the primary heating and water heating fuel type.
- Home must utilize a heat pump for heating and cooling.
- Proposed energy modeling must achieve either of the three national certifications.
 There is no HERS requirement.



Home Eligibility Requirements (cont.)

- Home must be completed on or after April 15, 2024.
- Home must receive a HERS rating, rough/pre-drywall inspection and final inspection.
- Home construction, PV-Ready Checklist and final HERS rating must be completed by December 31, 2025.
- Incentive application must be updated to include the final HERS rating and be resubmitted to the portal by December 31, 2025.
- Program is funded through December 31, 2025, or through depletion of funds.



Participation Steps



Participation Process

STEP 1

Builder submits Trade Ally Participation Agreement

STEP 2

Work with HERS
Rater or PHI/PHIUS
consultant, who will
submit rebate
applications on
behalf of the builder

STEP 3

Rater / consultant submits proposed design through Ekotrope portal

STEP 4

CE team reviews application and proposed design

If approved, incentives will be reserved

STEP 5

Builder completes construction of home per proposed design

Note: Consumers Energy has right to withhold incentives if pilot requirements are not met on final application.

Project may be directed to the standard New Homes program.

STEP 7

If all requirements are met, reserved incentive will be paid to builder based on the project's final certification tier

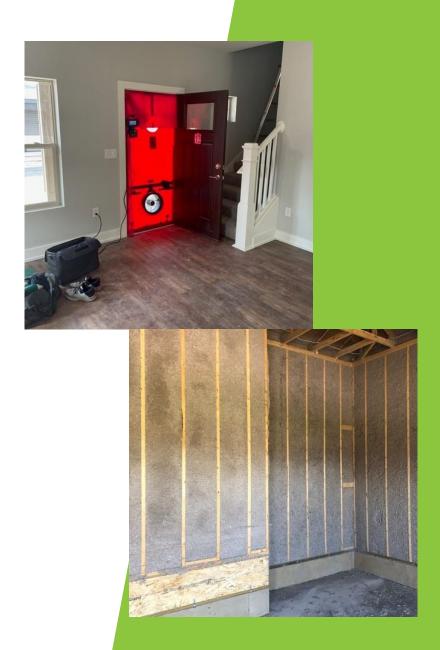
STEP 6

Rater / consultant & builder registers homes with RESNET® and submits final rating through Ekotrope and DOE ZERH PV-Ready checklist



Facilitation of QA/QC

- Program participants will be required to participate in program QA/QC during pre-drywall and final stages of construction.
- QA/QC team comprised of ICF staff, who will collect data points and oversee or conduct diagnostic testing to compare with final application and HERS rating.
- Solid and consistent communication between builders/raters/program staff is required to ensure coordination and minimize rebate delays.





Home Registration & Incentive Process





Submission of Proposed Model

- Ekotrope users: Complete proposed model and fill out Consumers tab within 'Project Info', marking project as 'Under Construction'.
- REM/Rate users: Upload proposed model via XML and fill out Consumers tab within 'Project Info', marking project as 'Under Construction'.
- Submit project using the 'Submit Project' dropdown and selecting Consumers Energy.





Incentive Reservation & Online Data Entry

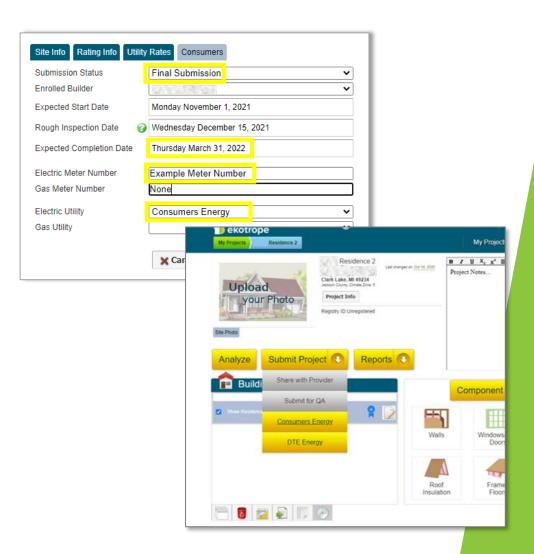
- Home design/Incentive Application must be registered in the portal and be preapproved by the program. Upon approval, allocations will be reserved for the home(s). Any modifications to the home design may result in a gain or loss of allocation.
- Upon registration, it will be required in the Incentive Application to provide the proposed home design set of basic home data, including:
 - Lot number
 - Street Address
 - City
 - Zip Code
 - County
 - Permit Date
 - Expected Start Date

- Expected Completion Date
- Expected Close-In Date
- House Type
- House Plan/Name
- Project, Community, Building Name
- Square Footage
- Consumers Energy Electric Meter Number



Submission of Final Model

- Ekotrope users: Complete proposed model and fill out Consumers tab within 'Project Info', marking project as 'Final Submission'.
- REM/Rate users: Upload proposed model via XML and fill out Consumers tab within 'Project Info', marking project as 'Final Submission'.
- Submit project using the 'Submit Project' dropdown and selecting Consumers Energy.





Additional PHI / PHIUS Requirements

In addition to the project Ekotrope submission for ES NextGen and DOE ZERH Homes, additional documents may be required, including:

- Core Prescriptive Checklist
- Quality Assurance Checklist
- Completion Certificate

Please inquire to the program team upon initial submission of your project or upon completion of the Participation Agreement.



Please reach out to the program team for any help you may need



Incentive Review

- Completed incentive applications will be processed by the program on a twice-monthly basis.
- If there is a construction delay greater than 30 days that affects the completion date of a registered home, the expected completion date must be updated in the builder's Incentive Application in the portal.
- For online Incentive Applications to be considered complete, the rater must upload the following supporting documentation:
 - Completed <u>PV-Ready checklist</u> or verification of PV installation on-site.
 - An Ekotrope or REM/Rate file for each registered home.
 - A PDF of registered home plans, upon request.
 - Completion Certificate for Passive House submissions.



Incentive Review (cont.)

- Upon completion, the builder's requested incentive will be verified using:
 - Confirmed HERS rater reports
 - Qualifications according to the national standards applying for
- The HERS rater and Consumers Energy will validate the fuel service(s) provided at the premises.
- Builder must allow access to third-party (ICF) field quality assurance/quality control, upon request.



Program Resources





Marketing & Technical Resources

All-Electric New Home Construction Trade Ally site

Customer Bifold Brochure

All-Electric New Homes and Utility Incentives in Michigan

Technical Bulletins via New Home Construction program

Measure recommendation report via Ekotrope





Questions?

Consumers Energy

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ICF

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