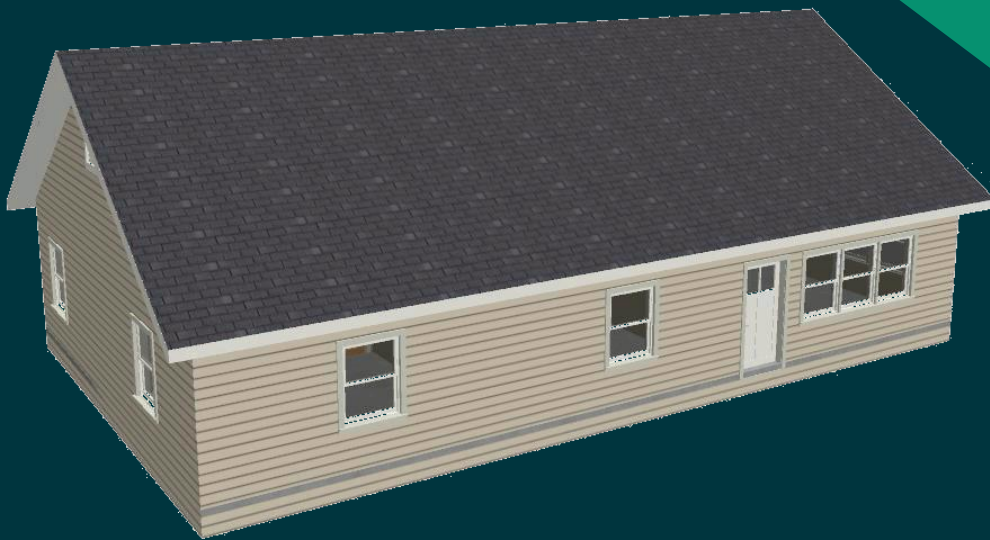




# Energize CT Overview



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# HES & HES-IE Programs



- Connecticut's flagship residential retrofit energy efficiency programs
- National recognition from the ACEEE as "Exemplary State Energy Efficiency" programs and the US Environmental Protection Agency (EPA) as an ENERGY STAR® Partner of the Year
- Comprehensive home energy performance programs for residential utility customers
- Provide rebates for eligible measures

# HES Eligible Rebates



- ENERGY STAR Appliances
  - Refrigerators
  - Freezers
  - Clothes washers
  - Insulation
- Attic Access Covers

# HES Rebate Requirements



## Insulation Location

- Any area of a residential building envelope separating conditioned and non-conditioned space
- Attic roof decks and rafters **do not** qualify for the rebate(s)
- Conditioned basements, detached garages and garages without living space above **do not** qualify for rebate(s)
- Areas with health and safety barriers identified by the Home Energy Solutions (HES) technician **may not** be eligible to receive rebate(s)
- All installations **must** comply with local building codes and regulations, including energy code, fire code and ventilation requirements

# Acceptable Insulation Materials



- Fiberglass Batts
- Blown Fiberglass
- Cellulose, Dense Pack Cellulose
- Rockwool
- Spray Foam (HES only)
- Rigid Foam
- Mineral/Stone Wool
- Natural Fiber

# R-Value Qualifications



## Attic Floors:

- Existing R-value cannot exceed R19
- Recommended minimum final R-value must be R49 or greater unless it is not practicable structurally in the attic space in which R38 is the required minimum

## Floored Over Attics:

- Existing R-value must be less than or equal to 4
- Final R-value must be R19 or greater

**Recommendation: Attic access should be adequately insulated.**

\*The capacity of an insulating material to resist heat flow. The higher the R-value, the greater the insulating power.

## Above & Below Grade Walls:

- Existing R-value cannot exceed R4
- Final R-value must be R13 or greater

## Basement and Garage Ceilings:

- Existing R-value cannot exceed R6
- Final R-value must be R19 or greater

## Rim Joist:

- Existing R-value cannot exceed R6
- Final R-value must be R13 or greater

- Rebate applies only to attic floors that are part of a residential building envelope
- Attic opening covers must comply with local and state building codes and regulations
- Assembled R-value must be a minimum of R-30 and to a minimum level equivalent to the surrounding insulation
- Weather-stripped and sealed installation is required and must be easily resealable after each entry
- Attic penetration cover incentives are not applicable to self-installed products
- Rebate applies to separate assemblies from any attic insulation savings calculation



# Incentives & Conditions



Method of Installation	Incentive Amount	Conditions
Self-installed insulation	\$0.25/sq. ft. for all types	Insulation install must pass third-party inspection prior to incentive payment
Contractor-installed insulation	<ul style="list-style-type: none"><li>• \$1.70/sq. ft. for walls, and attic floors and floored over attics</li><li>• \$1.70/sq. ft. for garage ceilings</li><li>• \$0.80/sq. ft. for basement ceilings</li><li>• \$1.70/sq. ft. rim joist</li></ul>	Rebate is paid per sq. ft. or 75% of the total cost, whichever is less, up to \$10,000
Blower door test-in/test-out	\$260	CFM pre- and post-readings; performed by BPI Analyst or Envelope Certified Professional
Pull-down stairs	\$100	See access cover qualifications
Attic opening	\$35	See attic access cover qualifications

# Incentives & Conditions



## Insulation Installed (REQUIRED - This section to be completed by licensed contractor; utility inspection required for self-installed insulation)

Attic Floor (AF), Floored Over Attic (FOA), Wall (W), Basement (B), Garage (G), Rim Joist (RJ), Attic Opening (AO), or Pull Down Stairs (PDS) (Check Only One)	Ground Factor*	Installed Material	Existing Insulation R-value	Existing Insulation Removed	R-value Installed (added R-value)	Final Total Insulation R-value (Existing plus Added)	Net Area**: Length x Width (sq. ft. only)	Total Incentive***	Number of Attic Access Covers
<input type="checkbox"/> AF <input checked="" type="checkbox"/> FOA <input type="checkbox"/> W <input type="checkbox"/> B <input type="checkbox"/> G <input type="checkbox"/> RJ <input type="checkbox"/> AO <input type="checkbox"/> PDS	Above	Cellulose	4	No	9	13	900	\$1,530	N/A
<input type="checkbox"/> AF <input type="checkbox"/> FOA <input type="checkbox"/> W <input type="checkbox"/> B <input type="checkbox"/> G <input type="checkbox"/> RJ <input type="checkbox"/> AO <input type="checkbox"/> PDS									
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Blower Door Test Performed****		
CFM Pre Reading:	CFM Post Reading:	BPI Analyst or Envelope Certification #****

# HES-IE Requirements



- Incentive applies to walls, knee walls, crawl spaces and attic floors and basement ceilings that are part of the home's building envelope barrier
- Insulation installed in walls in non-conditioned basements, and interior walls in conditioned space, **do not** qualify for the Home Energy Solutions-Income Eligible (HES-IE) insulation incentive
- If HES-IE updates the Ground Factor box, it must contain one of the following initials (Above grade AG, below grade BG, mixed grade MG)
- Attic roof decks and rafters **do not** qualify for incentives
- Spray foam **does not** qualify under HES-IE

# Invoice Requirements



All contractor Installed insulation invoice(s) should include:

- Contractor's information
- Customer's information
- Customer's signature
- Installation Date
- Itemized invoice which matches the Insulation Installed Table
- Pre and Post CFM reading (if applicable)

# Invoice Requirements



All professionally installed assembly invoices must state the following information:

- The installer's contact information (company's name, address and phone number) on professional invoice letterhead
- Installation date
- Coverage area of the assembly
- Assembled R-value
- Insulation type and thickness
- Per item material cost
- Per item labor cost
- Verify whether the cover was a stand-alone item and separate from any insulation project or is included with an aggregate R-value on a project
- Note: Any pre-manufactured assembly must conform to 16 CFR 460.17 and include a statement of warranty. An example of a manufactured attic pull-down stair assembly that currently qualifies is: The Energy Guardian, B attic Door 50+.

# HES-IE Requirements



- Insulation installations **must** comply with local building codes and regulations
- Acceptable insulation materials are fiberglass batts, blown-fiberglass, cellulose or dense pack cellulose, rockwool, rigid foam, mineral/stone wool, natural fiber
- It is **mandatory** for all vendors to have a written statement from a licensed electrician or certified electrical inspector stating that insulation can be safely installed over knob and tube wiring that exists in attics, walls or ceilings

# HES-IE Requirements



- HES-IE pays Vendors directly for qualifying insulation installation
- Test-in/test-out must be performed by a certified BPI Building Analyst or Envelope Professional for all insulation installations
- Additional incentive is added to all projects to cover the test-in/test-out cost inclusive of CAZ testing in accordance with BPI guidelines

# HES-IE Requirements



## R-Value Qualifications

- **Attic Floors:** The existing R-value cannot exceed R19. Recommended minimum final R-value must be R49 or greater unless it is not practicable structurally in the attic space in which R38 is the required minimum.
- **Floored Over Attics:** The existing R-value must be less than or equal to R4. The final R-value must be R19 or greater. Attic access must be adequately insulated in order to be eligible for the HES-IE insulation incentive.
- **Attic Openings:** Attic area is required to be evaluated for recommendations of attic hatch or pull downstairs.
- **Above & Below Grade Walls:** The existing R-value cannot exceed R4. The final R-value must be R13 or greater.
- **Unconditioned Basement Ceilings and Garage Ceilings:** The existing R-value cannot exceed R6. For basement and garage ceilings the final R-value must be R19 or greater. Conditioned basement ceilings defined as having heat and or air conditioning delivered into space via air vents, hot water baseboards or electric resistance baseboards do not qualify for basement insulation incentive.
- **Detached garages do not** qualify for the garage ceiling incentive insulation.
- **Rim Joist:** The existing R-value cannot exceed R6. The final R-value must be R13 or greater.



# Change Orders



The Home Energy Solutions (HES)–Insulation Rebate Change Order Form will be required in the following scenarios (HES only):

- If the installed square footage is 20 percent or greater than the recommended square footage
- If any new areas to be installed were not originally recommended and noted on the rebate form