

## Appendix H: rebate matrix

### ***This matrix summarizes information regarding Efficiency Works Retrofit Program rebates***

#### **Eligibility requirements**

- Rebates are available for improvements to existing (greater than one year old), single-family detached, multifamily (4 units or less), and attached townhomes with individual heating systems. Multi-family homes (5 or more units), homes less than one year old, and mobile homes are not eligible.
- Rebates can be used for improvements to owner-occupied and rental properties receiving electric service from Estes Park Power & Communications, Fort Collins Utilities, Longmont Power & Communications, or Loveland Water and Power.
- An Efficiency Works Retrofit program energy assessment is required as a prerequisite before efficiency improvement measures are installed. (*Exception: HVAC rebates are not required to have an assessment*)
- Improvements must be installed by contractors included on the applicable *Efficiency Works Participating Contractor List* (<https://efficiencyworks.org/resources/find-a-service-provider/>). As these lists will be periodically updated, be sure the version you're using is current.
- Homeowner installations (DIY) do not qualify for rebates.
- Improvements must be installed in accordance with the details of the *Appendix A Efficiency Works Retrofit Program Installation Standards*. This requirement is the contractor's responsibility.
- Following any retrofit, which may impact the building shell tightness, a blower door test out is required.
- Where any building envelope improvement measures (attic insulation, frame wall insulation, window replacement, etc.) are undertaken, the corresponding building component(s) must be durably air sealed.
- Any time the combustion safety test results in spillage at natural conditions, the problem must be corrected before a rebate will be approved.

#### **Questions**

Contact Program Manager at 970-290-9723  
[homes@efficiencyworks.org](mailto:homes@efficiencyworks.org)

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<b>Air Sealing</b>	<p><b>Existing:</b> All houses with an ACH50 of greater than 3.0 are eligible</p> <p>Combustion safety test required</p> <p>Pre and post blower door testing required</p>	<p>Rebate amount varies with % reduction in house shell leakage:</p> <ul style="list-style-type: none"> <li>• Tier 1, <math>\geq 15\%</math> - <b>\$310</b></li> <li>• Tier 2, <math>\geq 25\%</math> - <b>\$460</b></li> <li>• Tier 3, <math>\geq 33\%</math> - <b>\$620</b></li> <li>• Tier 4, <math>\geq 50\%</math> - <b>\$770</b></li> </ul>

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<p><b>Conditioned Crawl Space</b></p>	<p><b>Existing:</b> uninsulated or poorly installed insulation</p> <p><b>All three must be completed:</b>  Rim joist insulation  Air sealing/insulating foundation wall  Moisture/soil gas barrier</p> <p>Evidence of moisture requires extension of moisture/soil gas barrier up the foundation wall to the sill plate as well as provision for means of sub-barrier moisture removal.</p> <p><b>Rim joist:</b> foam board or spray foam insulation to current IECC R-value requirements, air seal</p> <p><b>Foundation wall – options</b>  insulation levels must meet current IECC R-value requirements</p> <p>Insulate on <b>interior</b> with perforated vinyl faced fiberglass blanket, closed cell foam board or spray foam with ignition barrier (except where exempt per ICC-ES).</p> <p>Combustion safety test required</p>	<p>Rim joist  <b>\$1.16/linear ft.</b></p> <p>Foundation wall  <b>\$1.16/sq.ft.</b></p>
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<p><b>Basement Wall Insulation (interior)</b></p>	<p><b>Existing:</b> Basement walls are uninsulated.</p> <p>Existing moisture problems must be mitigated, and any foundation cracks sealed</p> <p><b>Rim joist:</b> closed cell foam board or spray foam to meet current IECC R-value requirements; air seal foundation plate</p> <p><b>Foundation wall insulation:</b></p> <p><b>Options:</b></p> <p>1" XPS or EPS foam board against foundation wall + unfaced R-13 fiberglass batts in finished frame wall</p> <p>Continuous spray foam or foam board to IECC R-value requirements with thermal barrier.</p> <p>Vinyl faced fiberglass blanket to IECC R - value requirements</p> <p>Combustion safety test required</p>	<p>Rim joist <b>\$1.16/linear ft.</b></p> <p>Foundation wall <b>\$1.16/sq.ft.</b></p>
<p><b>Cantilever Floor Insulation</b></p>	<p>Air seal exterior and interior</p> <p>Any water pipes must be located in top ½ of floor joist cavity or drywall must be removed and netting installed below water pipes before insulating</p> <p>Combustion safety test required</p>	<p><b>\$1.16/sq.ft.</b></p>

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<b>Floor Over Garage Insulation</b>	<p><b>Existing:</b> Insulation does not fill floor cavity</p> <p>If any water pipes are located below the top ½ of floor joist cavity or drywall must be removed and netting/tenting installed below water pipes before insulating</p> <p>All open chases must be sealed</p> <p>Floor joist cavities used as return air ducts must be sealed from floor cavity being insulated</p> <p>Any drywall removed from ceiling must be restored to current code compliance</p> <p>Combustion safety test required</p>	<b>\$1.16/sq.ft.</b>
<b>Exterior Frame Wall Insulation</b>	<p><b>Existing:</b> R-9 or less</p> <p>Must air seal all wall assembly openings (windows, doors &amp; electrical boxes) prior to dense packing walls</p> <p>Completely fill all stud cavities</p> <p>Cloth sheathed electrical wiring must be evaluated by a licensed electrician prior to insulating</p> <p>Knob and tube wiring must be abandoned or replaced prior to insulating</p> <p>Combustion safety test required</p>	<b>\$1.16/sq.ft.</b>

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<b>Attic Insulation (Flat Ceiling)</b>	<p><b>Existing:</b> Insulation &lt; R-30</p> <p><b>Final</b> insulation must <math>\geq</math> R-60</p> <p>Baffles must be installed at all exterior top plate soffit vent locations &amp; insulation stops to minimize wind washing</p> <p>Must air seal attic floor thermal by-passes</p> <p>Must install missing air barriers or insulation on knee walls and skylights</p> <p>Must install dams above kneewalls edge when necessary to hold insulation in place.</p> <p>Must repair duct problems in attic before insulating</p> <p>All exhaust fan ducts must terminate on the exterior of the building</p> <p><b>Combustion safety test required</b></p>	<b>\$0.77/sq.ft.</b>
<b>Attic Knee Wall Insulation</b>	<p>Insulation must be installed to RESNET Grade I</p> <p>Meet current IECC R-value requirements</p> <p><b>If already insulated</b>, add R-11 spray foam, foam board or vinyl faced fiberglass blanket over existing insulation. Spray foam &amp; foam board requires ignition barrier (except where exempt per ICC-ES).</p> <p><b>If uninsulated</b>, first fill cavity, then add R-11 spray foam, foam board or vinyl faced fiberglass blanket to the cold side of the framing. Spray foam &amp; foam board requires ignition barrier (except where exempt per ICC-ES).</p> <p>Combustion safety test required</p>	<p>Already Insulated <b>\$0.77/sq.ft.</b></p> <p>Uninsulated <b>\$1.16/sq.ft.</b></p>

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<b>Cathedral Ceiling Insulation</b>	<p>No minimum existing insulation</p> <p>No interior Class I vapor retarders</p> <p><b>Cathedral ceiling insulation requirements:</b> Install continuous, external R-20 insulation above the structural roof sheathing (and covered with IRC approved roofing material)</p> <p>Completely fill rafter cavity below structural roof sheathing with dense-packed short fiber fiberglass</p> <p>Air seal ceiling and can lights as appropriate</p> <p>Combustion safety test required</p>	<b>\$1.16/sq.ft.</b>
<b>Conditioned Attics (Unvented Attics with Spray Foam on the Underside of the Roof Deck)</b>	<p>All existing insulation must be removed from the attic floor (vacuum out all blown insulation)</p> <p>Minimum <b>R-30</b> on underside of roof deck</p> <p>An ignition barrier is required to cover all exposed foam</p> <p>All attic ventilation (soffit, gable, roof vents) must be removed or sealed</p>	<b>\$1.16/sq.ft.</b>
<b>Window and/or Sliding Glass Door Replacement</b>	<p><b>Existing:</b> Windows and sliding glass doors must be single pane, clear glass or metal framed</p> <p>Exterior walls and existing window frames left in place must be insulated and air sealed</p> <p>Windows and sliding glass doors must be ENERGY STAR® qualified for our northern climate, with a low maintenance exterior</p> <p><a href="https://www.energystar.gov/products/building_products/residential_windows_doors_and_skylights/key_product_criteria">https://www.energystar.gov/products/building_products/residential_windows_doors_and_skylights/key_product_criteria</a></p>	<b>\$3.75/sq.ft.</b>

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<b>Air Conditioners</b>	<p><b>17 SEER / 16.2SEER2</b> <b>12.5 EER / 12 EER2</b></p> <p>AC system sized using ACCA Manual J compliant method</p> <p>Systems &gt; 115% of design cooling load must use Manual S</p> <p>Must be AHRI matched</p> <p>Existing AC must be SEER 10 or &lt;, <b>OR</b> replacement AC system is at least 1 ton smaller</p> <p>System must be commissioned with Appendix E</p> <p>ENERGY STAR® certified</p>	<b>\$500</b>
<b>Ductless Mini-Split Heat Pumps</b>	<p><b>21 SEER / 21SEER2</b> <b>9.5 HSPF / 9.1 HSPF2</b></p> <p>Must be cold-climate multi-stage heat pump NEEP or EStar or AHRI</p> <p>System must be commissioned with Appendix E2</p> <p>ENERGY STAR® certified</p>	<b>\$500/ton</b>



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<b>Heat Pumps Central Split Systems</b>	<b>Tier 1</b>  <b>16 SEER / 15.2 SEER2</b> <b>9 HSPF / 7.8 HSPF2</b> Change over temp $\leq$ 35F ENERGY STAR® certified	Tier 1 <b>\$1500</b>
	<b>Tier 2</b>  <b>16 SEER / 15.2 SEER2</b> <b>9.5 HSPF / 8.1 HSPF2</b> Change over temp $\leq$ 5F Cold Climate NEEP, CEE, Energy Star, or AHRI  System must be sized using ACCA Manual J compliant method  System must be commissioned with Appendix E	Tier 2 <b>\$2000</b>

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<p><b>Ground Source Heat Pumps</b></p>	<p><b>Water to Water</b></p> <p><b>16.1 EER</b> <b>3.1 COP</b> ENERGY STAR® certified</p> <p>Closed Loop</p> <p>System must be sized using ACCA Manual J compliant method</p> <p>System must be commissioned with Appendix E</p> <p><b>Water to Air</b></p> <p><b>17.1 EER</b> <b>3.6 COP</b> ENERGY STAR® certified</p> <p>Closed Loop</p> <p>System must be sized using ACCA Manual J compliant method</p> <p>System must be commissioned with Appendix E</p>	<p>Water to Water <b>\$3000</b></p> <p>Water to Air <b>\$3000</b></p>
Efficiency Measure	Requirements and Options	Rebate Amounts
<p><b>Heat Pump Water Heater</b></p>	<p><b>UEF <math>\geq 3.3</math></b></p> <p>Replacement situation</p> <p>ENERGY STAR® certified</p> <p><b>Additional Rebate</b> if CTA-2045 compliant (Eco Port)</p>	<p><b>\$800</b></p> <p><b>\$100</b></p>

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<b>Mechanical Ventilation</b>	<b>Existing:</b> Per ASHRAE 62.2-2013 calculation, home requires mechanical ventilation  Install Ventilation per ASHRAE 62.2-2013 mechanical ventilation requirements  Combustion safety test required	<b>\$400</b>
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