



# HELP Program Home Energy Assessment Checklist & Measure Guide

An in-field guide for HELP Home Energy Assessors (HHEAs)

## Assessment Details

Assessor Name: \_\_\_\_\_ Assessment Date: \_\_\_\_\_

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## Premise Information

Year Built: \_\_\_\_\_ Square Footage of Residence: \_\_\_\_\_

### Check all that apply:

- Basement Present:      Conditioned      Unconditioned
  - Attic Present:      Conditioned      Unconditioned
  - Crawl Space Present:      Vented      Sealed      Unsure
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## Water Heater

- Old      Energy Star
  - Water Heating Fuel Type: \_\_\_\_\_
  - Manufacturer: \_\_\_\_\_
  - Model No.: \_\_\_\_\_
  - Serial No.: \_\_\_\_\_
  - Manufactured Date: \_\_\_\_\_
  - Uniform Energy Factor (UEF): \_\_\_\_\_
  - Tank Size: \_\_\_\_\_ gallons
  - Tankless: \_\_\_\_\_
  - Water Heater Location: \_\_\_\_\_
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## Cooling Equipment

- Old      Energy Star
  - Cooling System: \_\_\_\_\_
  - Cooling Capacity: \_\_\_\_\_ tons
  - Efficiency (SEER): \_\_\_\_\_
  - Manufacturer: \_\_\_\_\_
  - Model No.: \_\_\_\_\_
  - Serial No.: \_\_\_\_\_
  - Manufactured Date: \_\_\_\_\_
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## HVAC Thermostat

Standard      Programmable

### If Programmable:

Programmed      Not Programmed

## Heating Equipment

- Old      Energy Star
- Residence Heating Fuel: \_\_\_\_\_
  - Heating Type: \_\_\_\_\_
  - Heating Capacity: \_\_\_\_\_ (kBtu/h)
  - Efficiency (HSPF): \_\_\_\_\_
  - Manufacturer: \_\_\_\_\_
  - Model No.: \_\_\_\_\_
  - Serial No.: \_\_\_\_\_
  - Manufactured Date: \_\_\_\_\_
- 

## Appliances

- Refrigerator:**      Old      Energy Star
- Manufacturer: \_\_\_\_\_
  - Model No.: \_\_\_\_\_
  - Serial No.: \_\_\_\_\_
  - Size: \_\_\_\_\_ cubic ft
  - Ice Maker (Y/N): \_\_\_\_\_
  - Door Opens From (R/L): \_\_\_\_\_
  - Existing Unit Dimensions: \_\_\_\_\_ " (W) x \_\_\_\_\_ " (H) x \_\_\_\_\_ " (D)
  - Opening Dimensions: \_\_\_\_\_ " (W) x \_\_\_\_\_ " (H) x \_\_\_\_\_ " (D)\*
  - Manufactured Date: \_\_\_\_\_
  - Unit Energy Consumption (UEC): \_\_\_\_\_
- \*Measure the width, height, and depth of the space where the fridge sits—edge to edge—making sure to note the narrowest points and account for any trim, cabinets, or obstructions
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- Freezer:**      Old      Energy Star
- Manufacturer: \_\_\_\_\_
  - Model No.: \_\_\_\_\_
  - Serial No.: \_\_\_\_\_
  - Size: \_\_\_\_\_ cubic ft
  - Existing Unit Dimensions: \_\_\_\_\_ " (W) x \_\_\_\_\_ " (H) x \_\_\_\_\_ " (D)
  - Manufactured Date: \_\_\_\_\_
  - Unit Energy Consumption (UEC): \_\_\_\_\_
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## Insulation

### Attic Insulation

- Existing R-Value: \_\_\_\_\_
- Existing Attic Area:  
\_\_\_\_\_ (L) x \_\_\_\_\_ (W) = \_\_\_\_\_ sq. ft.

### Floor Insulation

- Existing R-Value: \_\_\_\_\_
- Existing Floor Area:  
\_\_\_\_\_ (L) x \_\_\_\_\_ (W) = \_\_\_\_\_ sq. ft.\*

\*Area above basement/crawl space

### Wall Insulation

- Existing R-Value: \_\_\_\_\_
- Existing Wall Cavity Size:  
\_\_\_\_\_ " (W) x \_\_\_\_\_ " (H) x \_\_\_\_\_ " (D)

### Basement/Sidewall Insulation

- Existing R-Value: \_\_\_\_\_
- Length of Basement Wall: \_\_\_\_\_ ft.
- Height of Basement Wall:  
\_\_\_\_\_ ft. (above grade) & \_\_\_\_\_ ft. (below grade)

### Rim Joist Insulation

- Existing R-Value: \_\_\_\_\_
- Existing Length of Rim Joist Area: \_\_\_\_\_ ft.
- Existing Height of Rim Joist Area: \_\_\_\_\_ ft.

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## Thermal Distribution

- |   |  |
|---|--|
| • Duct Type: _____                                  | • Duct Leakage Observed: _____                             |
| • Duct Insulated:      Yes          No          N/A | • Pipe Insulation:      Yes          No          N/A       |
| • Duct Sealed:      Yes          No          N/A    | • Space Condition:      Conditioned          Unconditioned |
-

## Installed DI Measures

**Advanced Smart Tier 2 Power Strip:** QTY: \_\_\_\_\_

### Specialty LED Bulbs:

#### Globe:

QTY: \_\_\_\_\_ Wattage of Installed Bulb: \_\_\_\_\_ Wattage of Replaced Bulb: \_\_\_\_\_

#### BR30:

QTY: \_\_\_\_\_ Wattage of Installed Bulb: \_\_\_\_\_ Wattage of Replaced Bulb: \_\_\_\_\_

#### GU10:

QTY: \_\_\_\_\_ Wattage of Installed Bulb: \_\_\_\_\_ Wattage of Replaced Bulb: \_\_\_\_\_

#### Candelabra:

QTY: \_\_\_\_\_ Wattage of Installed Bulb: \_\_\_\_\_ Wattage of Replaced Bulb: \_\_\_\_\_

#### T8 Linear Tube:

QTY: \_\_\_\_\_ Wattage of Installed Bulb: \_\_\_\_\_ Wattage of Replaced Bulb: \_\_\_\_\_

### LED Outdoor Flood Light:

QTY: \_\_\_\_\_ Wattage of Installed Bulb: \_\_\_\_\_ Wattage of Replaced Bulb: \_\_\_\_\_

### Specialty LED (other):

QTY: \_\_\_\_\_ Wattage of Installed Bulb: \_\_\_\_\_ Wattage of Replaced Bulb: \_\_\_\_\_

### Aerators:

#### Bathroom Low Flow Aerator:

QTY: \_\_\_\_\_ Existing Unit Flow Rate: \_\_\_\_\_ Installed Unit Flow Rate: \_\_\_\_\_

#### Kitchen Low Flow Aerator:

QTY: \_\_\_\_\_ Existing Unit Flow Rate: \_\_\_\_\_ Installed Unit Flow Rate: \_\_\_\_\_

### Showerheads (SH):

#### Fixed Low Flow SH:

QTY: \_\_\_\_\_ Existing Unit Flow Rate: \_\_\_\_\_ Installed Unit Flow Rate: \_\_\_\_\_

#### Handheld Low Flow SH:

QTY: \_\_\_\_\_ Existing Unit Flow Rate: \_\_\_\_\_ Installed Unit Flow Rate: \_\_\_\_\_

#### Fixed Standard SH with TSV:

QTY: \_\_\_\_\_ Existing Unit Flow Rate: \_\_\_\_\_ Installed Unit Flow Rate: \_\_\_\_\_

#### TSV SH Attachment:

QTY: \_\_\_\_\_ Existing Unit Flow Rate: \_\_\_\_\_ Installed Unit Flow Rate: \_\_\_\_\_

**Pipe Wrap Insulation (ft):** QTY: \_\_\_\_\_ ft

### Energy Star Air Purifier:

QTY: \_\_\_\_\_ Existing Unit CADR (Clean Air Delivery Rate): \_\_\_\_\_ Installed Unit CADR: \_\_\_\_\_

**Wi-Fi Enabled Smart Thermostat:** QTY: \_\_\_\_\_

## Direct Install Measure Guide

Advanced Smart Tier 2 Power Strip	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric or Non-Electric Water Heating</li> <li>• Electric or Non-Electric Space Heating</li> </ul>
<b>Measure Eligibility</b>	Existing power strip must not include power-saving features
<b>Measure Requirements</b>	Must <b>replace</b> existing high use power strips or be installed in high use outlets such as in entertainment centers or home offices
<b>Limits</b>	1 per household
<b>Identification Tips</b>	Look to replace standard power strips that have one manual on/off switch (if any) and no energy-saving functionalities

Energy Star® LED Specialty Bulbs	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric or Non-Electric Water Heating</li> <li>• Electric or Non-Electric Space Heating</li> </ul>
<b>Measure Eligibility</b>	<ul style="list-style-type: none"> <li>• Existing bulbs must be incandescent or T8/T12 fluorescent tubes in high-use areas (average of 2 hours per day)</li> <li>• Lamps in permanent fixtures are eligible for replacement. Lamps in portable fixtures are eligible for replacement if there is no permanent fixture in the room and they are the main light source.</li> <li>• Burnt out lamps or empty sockets may be replaced by an equivalent LED bulb to the burnt -out bulb, or to the wattage rated for the fixture.</li> <li>• Bulbs in closets, storage rooms, or exterior fixtures are not eligible.</li> <li>• Hallway fixtures are not typically designated as high-use areas.</li> </ul>
<b>Measure Requirements</b>	<ul style="list-style-type: none"> <li>• Replacement LED bulbs will meet the following requirements: <ul style="list-style-type: none"> <li>• <b>Lumen Output:</b> must be equivalent to that of the bulb the socket is rated to be installed</li> <li>• <b>Rated Life:</b> 15,000 hours</li> <li>• <b>Efficacy:</b> 61 lumens per watt (LPW) for directional, and 65 LPW for decorative lights</li> <li>• <b>CRI Minimum:</b> 80</li> </ul> </li> <li>• <b>A19 LED bulbs are not eligible</b></li> </ul>
<b>Limits</b>	18 per household
<b>Identification Tips</b>	<ul style="list-style-type: none"> <li>• Look to replace any of the following eligible specialty bulb categories: <ul style="list-style-type: none"> <li>• Reflector bulbs (PAR, BR, MR)</li> <li>• Decorative bulbs (Candelabra, Globe, etc.)</li> <li>• Tube replacements</li> </ul> </li> <li>• How to identify if a Specialty Bulb is not an LED: <ul style="list-style-type: none"> <li>• Spiral (curly) bulb</li> <li>• Bulb with filament (visible wire inside)</li> <li>• Very hot to the touch</li> <li>• Slow to brighten or flickers before reaching full brightness</li> <li>• High wattage</li> </ul> </li> </ul>

LED Outdoor Flood Lights	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric or Non-Electric Water Heating</li> <li>• Electric or Non-Electric Space Heating</li> </ul>
<b>Measure Eligibility</b>	Existing bulbs must be incandescent/halogen in applications likely to have a minimum use of two hours per day.
<b>Measure Requirements</b>	<ul style="list-style-type: none"> <li>• Replacement LED Outdoor Flood Light must be an LED PAR30 with a wattage between 15W and 18W.</li> <li>• Replacement units are available for front and back porch lights, and garage lights.</li> <li>• Replacement units will reduce wattage by a minimum of 20%.</li> </ul>
<b>Limits</b>	3 per household <i>*Up to 4 bulbs per household are allowed when replacing multiple fixtures with 2-bulb sockets to ensure consistent lighting</i>
<b>Identification Tips</b>	<ul style="list-style-type: none"> <li>• How to identify if an Outdoor Flood Light is not an LED: <ul style="list-style-type: none"> <li>• High wattage</li> <li>• Very hot to the touch</li> <li>• Slow to brighten or flickers before reaching full brightness</li> </ul> </li> </ul>

Low Flow Showerhead	
<b>Residence Requirements</b>	Electric Water Heating
<b>Measure Eligibility</b>	Existing showerhead must be a standard showerhead with flow of 2.0 GPM or greater.
<b>Measure Requirements</b>	Replacement units will have a flow of 1.5 GPM or less at 80 PSI.
<b>Limits</b>	2 per household (regardless of showerhead type)
<b>Identification Tips</b>	<ul style="list-style-type: none"> <li>• Check existing showerhead for a label or stamp that identifies GPM</li> <li>• Complete a bucket test to calculate the current flow rate</li> <li>• Reference table 1-1 for showerhead type recommendation</li> </ul>

Standard Flow Showerhead with TSV	
<b>Residence Eligibility</b>	Electric Water Heating
<b>Measure Eligibility</b>	Existing showerhead must be a standard showerhead
<b>Measure Requirements</b>	Replacement unit's thermostat will be 95 degrees or lower
<b>Limits</b>	2 per household (regardless of showerhead type)
<b>Identification Tips</b>	Reference table 1-1 for showerhead type recommendation

**Table 1-1: How to Recommend Low-Flow vs. Standard Flow with TSV Showerheads**

	Low-Flow	Standard Flow with TSV
<b>Description</b>	Reduces both water consumption and hot water usage by lowering flow rate	Pauses the water flow when water reaches 95 degrees (or lower), reducing water waste during warm-up
<b>Hot Water Wait Time</b>	Short wait (< 30 sec)	Longer wait (30–60+ sec)
<b>Water Pressure</b>	Reduced pressure	Stronger water pressure
<b>Best Use Case</b>	A small home with short plumbing runs	A large home where it takes 60+ seconds to get hot water

Low Flow Aerator	
<b>Residence Requirements</b>	Electric Water Heating
<b>Measure Eligibility</b>	Homes eligible to receive a low flow aerator must have a standard aerator with flow of 2.2 GPM or greater.
<b>Measure Requirements</b>	Replacement units will have a flow of 1.5 GPM or less.
<b>Limits</b>	3 per household
<b>Identification Tips</b>	<ul style="list-style-type: none"> <li>• Check existing aerator for a label that identifies GPM</li> <li>• Complete a bucket test to calculate the current flow rate</li> </ul>

Pipe Wrap Insulation	
<b>Residence Requirements</b>	Electric Water Heating
<b>Measure Eligibility</b>	Pipe wrap insulation is only available for exposed hot water pipes with no previous insulation. Existing insulation that is worn or torn is not eligible for replacement.
<b>Measure Requirements</b>	Pipe insulation will be taped or glued at all joints.
<b>Limits</b>	Limited to 15' total
<b>Identification Tips</b>	<ul style="list-style-type: none"> <li>• Pipes that need insulation are typically: <ul style="list-style-type: none"> <li>• Warm to the touch</li> </ul> </li> </ul>


<b>*Wi-Fi Enabled Smart Thermostat</b>	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric Heating</li> <li>• Central AC</li> </ul>
<b>Measure Eligibility</b>	<ul style="list-style-type: none"> <li>• Homes are not required to have Wi-Fi to be eligible for this measure.</li> <li>• Existing programmable thermostats are eligible if not currently set to a schedule.</li> </ul>
<b>Measure Requirements</b>	<ul style="list-style-type: none"> <li>• Replacement units must be one of the approved models listed in table 1-2</li> <li>• Replacement units are required to be programmed with either the homeowner or landlord/management organization. <ul style="list-style-type: none"> <li>• Determine a set point for occupied hours</li> <li>• For unoccupied hours, the temperature set point must be: <ul style="list-style-type: none"> <li>• <math>\geq 3^{\circ}\text{F}</math> warmer than the occupied set point in the summer, and</li> <li>• <math>\leq 3^{\circ}\text{F}</math> cooler in the winter.</li> </ul> </li> </ul> </li> </ul>
<b>Limits</b>	1 per household
<b>Identification Tips</b>	<ul style="list-style-type: none"> <li>• Programmable thermostats will have buttons like “Program”, “Set Schedule” or a digital display with time-based controls.</li> <li>• Non-programmable thermostats typically only have a basic temperature readout and analog controls to manually adjust settings</li> </ul>

\*If customer is eligible for a new HVAC system, the Wi-Fi-enabled smart thermostat will be installed during the follow-up visit, in coordination with the HVAC installation.

**Table 1-2: Approved Wi-Fi Enabled Smart Thermostats**

<b>Ecobee</b> <ul style="list-style-type: none"> <li>• Ecobee3</li> <li>• Ecobee3 Lite</li> <li>• Ecobee 4</li> <li>• Ecobee Smart Thermostat</li> <li>• Ecobee Smart Thermostat with Voice Control</li> <li>• Ecobee Smart Thermostat Premium</li> <li>• Ecobee Smart Thermostat Enhanced</li> </ul>	<b>Sensi</b> <ul style="list-style-type: none"> <li>• Sensi Lite Smart Thermostat</li> <li>• Sensi Touch 2 Smart Thermostat</li> <li>• Sensi Touch Smart Thermostat (Silver)</li> <li>• Sensi Touch Smart Thermostat (White)</li> <li>• Sensi Smart Thermostat</li> </ul>	<b>Google Nest</b> <ul style="list-style-type: none"> <li>• Google Nest Learning Thermostat</li> <li>• Google Nest Thermostat</li> <li>• Google Nest Thermostat E</li> </ul>
<b>Pelican</b> <ul style="list-style-type: none"> <li>• TS200</li> <li>• TS200H</li> <li>• TS250</li> <li>• TS250H</li> </ul>	<b>Honeywell Home Lyric</b> <ul style="list-style-type: none"> <li>• TH6220WF2006</li> <li>• TH6320WF2003</li> <li>• RCHT8610WF2006</li> <li>• RCHT8610WF2014</li> <li>• RCHT8610WF3005</li> <li>• RCHT8612WF2005</li> <li>• RCHT8612WF2015</li> <li>• RCHT9510WFW2001</li> <li>• RCHT9510WFW2017</li> <li>• RCHT</li> </ul>	<b>Honeywell</b> <ul style="list-style-type: none"> <li>• TH8110R1008</li> <li>• TH8320R1003</li> <li>• TH8321R1001</li> <li>• YTH8321R1002</li> <li>• TH8321WF1001</li> <li>• YTH8321WF1036</li> <li>• TH9320WF5003</li> <li>• 9421R5021WW</li> <li>• YTHX9421R5085WW</li> <li>• YTHX9421R5127WW</li> <li>• YTHX9421R7001WW</li> <li>• YTHX9421R5101WW</li> <li>• RTH9585WF1004</li> <li>• RTH9585WF1012</li> <li>• TH6320WF1005</li> <li>• RTH6580WF1001</li> <li>• RTH6580WF1006</li> <li>• RTH8580WF1004</li> <li>• RTH8580WF1007</li> <li>• RTH9580WF1005</li> <li>• RTH9580WF1013</li> <li>• RTH9580WFKITHQ</li> <li>• RET97A5E1001</li> </ul>



Energy Star® Air Purifier	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric or Non-Electric Water Heating</li> <li>• Electric or Non-Electric Space Heating</li> </ul>
<b>Measure Eligibility</b>	Home must have an existing Air Purifier that is in use
<b>Measure Requirements</b>	Replacement unit must be Energy Star certified and the same size or smaller than the unit being replaced.
<b>Limits</b>	1 replacement per household
<b>Identification Tips</b>	<ul style="list-style-type: none"> <li>• Ask the customer if they are currently using an Air Purifier</li> <li>• Identify the brand name and model number on the label of the existing unit to determine eligibility</li> <li>• Check for an Energy Star logo </li> </ul>

## Retrofit Measure Guide

Air Sealing	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric or Non-Electric Space Heating</li> <li>• Electric Cooling System (Central AC, Room AC, or Heat Pumps)</li> </ul>
<b>Measure Requirements</b>	<ul style="list-style-type: none"> <li>• Air sealing will be completed by properly certified personnel (BPI or equivalent).</li> <li>• All accessible areas of the attic, floor, and exterior penetrations will be sealed.</li> <li>• Additional air sealing measures may include door sweeps and seals, caulking around window and door openings, and outlet gaskets.</li> <li>• Pre- and post-blower door tests will be performed on all air-sealed units.</li> <li>• In single family homes, air sealing will be performed in conjunction with the attic insulation measure if existing insulation is insufficient.</li> <li>• In multifamily homes, air sealing is recommended to be performed in conjunction with attic insulation measures if existing insulation is insufficient, where applicable (i.e., in the topmost floors of qualifying homes).</li> </ul>
<b>Identification Tips</b>	<ul style="list-style-type: none"> <li>• If customer is eligible for attic insulation, air sealing should be selected as an eligible measure</li> <li>• Check for visible gaps or cracks and feel for drafts around windows, doors, baseboards, vents, light fixtures, outlets, etc.</li> </ul>

Duct Sealing	
Residence Requirements	<ul style="list-style-type: none"> <li>Electric or Non-Electric Space Heating</li> <li>Central AC</li> </ul>
Measure Requirements	<ul style="list-style-type: none"> <li>Ducts will be sealed with mastic sealant or mastic tape in <b>unconditioned spaces</b>.</li> <li>Duct sealing will be completed by properly certified personnel (BPI or equivalent).</li> <li>Acceptable methods of duct leakage testing include: <ul style="list-style-type: none"> <li><b>Preferred:</b> Duct Blaster (CFM25)</li> <li><b>Optional:</b> Modified Blower Door Subtraction Method (CFM50)</li> </ul> </li> </ul>
Identification Tips	<ul style="list-style-type: none"> <li>If there's duct work in a conditioned basement, duct sealing is not eligible</li> <li>If there's duct work in a crawl space, duct sealing would be beneficial</li> <li>If customer is eligible for attic insulation, and duct work is present, duct sealing should be selected as an eligible measure</li> <li>Check for visible portions of ductwork and look for gaps, cracks, or disconnection sectioned, corroded or deteriorated material, dust buildup around duct connections, etc.</li> <li>Check for uneven air flow coming out of vents</li> <li>Use a thermal gun to identify temperature differences</li> </ul>

Energy Star® Refrigerator	
Residence Requirements	<ul style="list-style-type: none"> <li>Electric or Non-Electric Water Heating</li> <li>Electric or Non-Electric Space Heating</li> </ul>
Measure Eligibility	<ul style="list-style-type: none"> <li>Existing primary refrigerator must be operational or in need of minor repairs and manufactured 8 years or more prior to the current calendar year.</li> <li>Refrigerator must be owned by the property owner at the time of replacement. Renters are eligible to replace unit with landlord written approval.</li> <li>Approval may be requested on a case-by-case basis for non-operational units or those requiring major repairs, including units less than 8 years old.</li> </ul>
Measure Requirements	<ul style="list-style-type: none"> <li>Replacement unit will be Energy Star certified and equivalent to the size of the unit currently installed, including features such as through-door ice and water, if applicable.</li> <li>Existing equipment will be disabled and removed from the property.</li> </ul>
Limits	1 per household
Identification Tips	Identify the manufacturer, model number, and serial number on the nameplate of the existing unit to determine eligibility

Energy Star® Freezer	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric or Non-Electric Water Heating</li> <li>• Electric or Non-Electric Space Heating</li> </ul>
<b>Measure Eligibility</b>	<ul style="list-style-type: none"> <li>• Existing primary freezer must be operational or in need of minor repairs and manufactured 10 years or more prior to the current calendar year.</li> <li>• Freezer must be owned by the property owner at the time of replacement. Renters are eligible to replace unit with landlord written approval.</li> <li>• Approval may be requested on a case-by-case basis for non-operational units or those requiring major repairs, including units less than 10 years old.</li> </ul>
<b>Measure Requirements</b>	<ul style="list-style-type: none"> <li>• Replacement unit size will be Energy Star certified and equivalent to the unit currently installed.</li> <li>• Existing equipment will be disabled and removed from the property.</li> </ul>
<b>Limits</b>	1 per household
<b>Identification Tips</b>	Identify the manufacturer, model number, and serial number on the nameplate of the existing unit to determine eligibility

Energy Star® Heat Pump	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric Heating</li> <li>• Functional Duct System In Place</li> </ul>
<b>Measure Eligibility</b>	If existing unit is a heat pump, efficiency must be below 14 SEER and below 65,000 Btu/h.
<b>Measure Requirements</b>	<ul style="list-style-type: none"> <li>• Replacement units will be Energy Star certified and rated at 16 SEER2 or greater, HSPF2 8.5 or greater, and below 65,000 Btu/h.</li> <li>• Heat pump replacement will be completed by properly certified personnel (HVAC-licensed individual on staff).</li> <li>• Existing heat pump will be permanently removed from service.</li> <li>• Heat pump warranty information will be left with the customer or apartment management organization. Exceptions may be approved on a case-by-case basis for homes with other heating and cooling source.</li> </ul>
<b>Limits</b>	1 per household
<b>Identification Tips</b>	<ul style="list-style-type: none"> <li>• Identify the manufacturer, model number, and serial number on the nameplate of the existing unit to determine eligibility.</li> <li>• If existing ductwork is in good condition, a heat pump should be considered.</li> </ul>

### Energy Star® Mini Split Heat Pump

<b>Residence Requirements</b>	<ul style="list-style-type: none"><li>• Electric Heating</li></ul>
<b>Measure Eligibility</b>	If existing unit is a heat pump, efficiency must be below 14 SEER and below 65,000 Btu/h.
<b>Measure Requirements</b>	<ul style="list-style-type: none"><li>• Replacement units will be rated at 16 SEER2 or greater, HSPF2 8.5 or greater, and below 65,000 Btu/h.</li><li>• Heat pump replacement will be completed by properly certified personnel (HVAC-licensed individual on staff).</li><li>• Existing heat pump will be permanently removed from service.</li><li>• Heat pump warranty information will be left with the customer or apartment management organization.</li><li>• Exceptions may be approved on a case-by-case basis for homes with other heating and cooling source.</li></ul>
<b>Limits</b>	1 per household
<b>Identification Tips</b>	<ul style="list-style-type: none"><li>• Identify the manufacturer, model number, and serial number on the nameplate of the existing unit to determine eligibility.</li><li>• If the ductwork in the home requires major repairs or replacement, a mini-split heat pump should be considered.</li></ul>

### Energy Star® Water Heater

<b>Residence Requirements</b>	Electric Water Heating
<b>Measure Eligibility</b>	Existing primary water heater must be operational or in need of minor repairs and have been manufactured 5 years or more prior to the current calendar year.
<b>Measure Requirements</b>	Replacement unit will be Energy Star certified and based on household size.
<b>Identification Tips</b>	Identify the manufacturer, model number, and serial number on the nameplate of the existing unit to determine eligibility.

### Attic Insulation

<b>Residence Requirements</b>	<ul style="list-style-type: none"><li>• Electric Heating</li><li>• Central AC</li></ul>
<b>Measure Eligibility</b>	Existing attic insulation must be R-11 or less.
<b>Measure Requirements</b>	<ul style="list-style-type: none"><li>• Total installed insulation will be R-49 for homes with electric space heating.</li><li>• Insulation type will be fiberglass or cellulose.</li></ul>
<b>Identification Tips</b>	Measure existing insulation with a ruler and reference table 1-3 insulation field guide to estimate R-value to determine eligibility.

Floor Insulation	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric Heating</li> <li>• Central AC</li> <li>• Crawl Space</li> </ul>
<b>Measure Eligibility</b>	Existing floor insulation must be R-5 or less.
<b>Measure Requirements</b>	<ul style="list-style-type: none"> <li>• R-19 batt insulation will be applied to the underside of the floor.</li> <li>• Floor insulation will only be installed when the floor separates conditioned and unconditioned spaces.</li> <li>• Batts will be neatly installed, fitting tightly together at joints, fitting closely around obstructions, and filling all the space within the floor cavity.</li> <li>• Batts will be cut accurately and squarely and installed in continuous contact with the subfloor. Hanging batts risk non-payment until corrected.</li> <li>• Batts will be supported by twine, wire, wood lath, or lighting rods/tiger teeth (friction fit method is not acceptable for fiberglass batts).</li> <li>• Fasteners for floor insulation will resist gravity, the weight of insulation, and the potential for moisture condensation.</li> </ul>
<b>Identification Tips</b>	Measure existing insulation with a ruler and reference table 1-3 insulation field guide to estimate R-value to determine eligibility.

Wall Insulation	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric Heating</li> <li>• Central AC</li> </ul>
<b>Measure Eligibility</b>	<ul style="list-style-type: none"> <li>• Multi-family home projects may be reviewed on a case-by-case basis.</li> <li>• Existing wall insulation must be R-5 or less.</li> </ul>
<b>Measure Requirements</b>	<ul style="list-style-type: none"> <li>• Total installed insulation will be R-13 or greater.</li> <li>• Only exterior walls are eligible or walls separating conditioned and unconditioned spaces.</li> <li>• Insulation type will be fiberglass, cellulose, or spray foam.</li> </ul>
<b>Identification Tips</b>	<ul style="list-style-type: none"> <li>• Measure existing insulation with a ruler and reference table 1-3 insulation field guide to estimate R-value to determine eligibility.</li> <li>• If home was built prior to 1950s, it is likely eligible for wall insulation.</li> </ul>

Basement / Sidewall Insulation	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric Heating</li> <li>• Central AC</li> <li>• Basement</li> </ul>
<b>Measure Eligibility</b>	Existing basement / sidewall insulation must be R-5 or less.
<b>Measure Requirements</b>	<ul style="list-style-type: none"> <li>• Total installed insulation will be R-15 or greater.</li> <li>• Insulation type will be fiberglass, cellulose, or spray foam.</li> </ul>
<b>Identification Tips</b>	Measure existing insulation with a ruler and reference table 1-3 insulation field guide to estimate R-value to determine eligibility.

Rim Joist Insulation	
<b>Residence Requirements</b>	<ul style="list-style-type: none"> <li>• Electric Heating</li> <li>• Central AC</li> </ul>
<b>Measure Eligibility</b>	Existing rim joist insulation must be R-5 or less.
<b>Measure Requirements</b>	<ul style="list-style-type: none"> <li>• Total installed insulation will be R-20 or greater.</li> <li>• Insulation type will be fiberglass, cellulose, or spray foam.</li> </ul>
<b>Identification Tips</b>	Measure existing insulation with a ruler and reference table 1-3 insulation field guide to estimate R-value to determine eligibility.

**Table 1-3 Insulation Field Guide**

Area	Common Insulation Type(s)	Depth Range	Estimated R-Value	Field Indicators
<b>Attic (R-11 or less)</b>	<ul style="list-style-type: none"> <li>• Blown fiberglass</li> <li>• Blown cellulose</li> <li>• Fiberglass batts</li> </ul>	$\leq 4"$	R-5 to R-10	Insulation appears sparse, patchy, or settled
<b>Floor (R-5 or less)</b>	<ul style="list-style-type: none"> <li>• Very thin batt</li> <li>• None or old paper-backed batts</li> </ul>	$\leq 2"$	R-5 or less	Visible joists; insulation may be falling or missing
<b>Wall (R-5 or less)</b>	<ul style="list-style-type: none"> <li>• Empty cavity</li> <li>• Partial fiberglass batt</li> <li>• Knob &amp; tube wiring (no insulation)</li> </ul>	$\sim 0"$ to $2"$	R-0 to R-5	Cold to touch; electrical outlets feel drafty
<b>Basement/Sidewall (R-5 or less)</b>	<ul style="list-style-type: none"> <li>• Exposed block wall</li> <li>• Thin foam board or fiberglass wrap</li> </ul>	$\leq 1"$ foam or thin batt	R-0 to R-5	Block walls bare or with light wrap; signs of moisture
<b>Rim Joist (R-5 or less)</b>	<ul style="list-style-type: none"> <li>• None</li> <li>• Minimal fiberglass</li> <li>• Gaps/leaks present</li> </ul>	$\leq 1"$	R-0 to R-5	Can see daylight or feel air; minimal coverage