

4.1 Energy Efficiency Measures

Measure	Notes
Assessment Fee	
Single Family Assessment	
Direct Install Measures	
Programmable Thermostat	Advanced thermostat is preferred, however, if customer requests a programmable one instead then it is installed. Thermostat must have capability to adjust temp set points according to 7 day schedule set by the installer in collaboration with the homeowner. Existing thermostat must be functional in order to be replaced.
Advanced Thermostat	Advanced thermostats may be installed to replace manual or programmable existing thermostats for homes with a furnace and/or CAC. Homes with an existing boiler should only have an advanced thermostat installed if the existing one is in poor condition. Existing thermostat must be functional in order to be replaced.
Insulation Measures	
Attic Insulation	Attic insulation should be installed when existing attic insulation is rated at R-19 or lower. Existing insulation levels should be brought up to R-49.
Basement/Crawlspace Wall Insulation	Basement and/or crawlspace walls may be insulated if there is no existing insulation. New insulation should be minimum R-10.
Floor Insulation Above Crawlspace	Floor above an unconditioned crawlspace may be insulated if there is no existing insulation. New insulation should be a minimum R-20. If ductwork is within the crawlspace, then proper thermal boundary would be the crawl space walls.
Wall insulation	Walls may be insulated if there is no existing wall insulation or if the existing insulation is in poor condition.
Low-e storm windows	Storm window can be added to inoperable single pane windows.
AC Covers	<p>A rigid cover that covers the indoor side of the air conditioner unit with foam gaskets to seal the edges OR</p> <p>A flexible cover that is well insulated and perfectly covers the indoor side of the air conditioner unit</p>

Rim Joist Insulation	Rim/band joist may be insulated if there is no existing insulation. New insulation should be a minimum of R-10.
Air Sealing and Duct Sealing	
Air Sealing	Air sealing should be performed on all homes, with a goal of an overall reduction in CFM50 of 25% or greater. Homes must have a CFM50 reading $\geq 110\%$ of the building's square footage.
Duct Sealing	Eligible duct systems are located in unconditioned and/or semi-conditioned spaces. Duct work must have CFM25 pre/post readings.
Mechanicals	
Gas Furnace Replacement	Emergency replacement only. See Mechanical Replacement Decision Trees (Appendix H) for baseline conditions that allow for repair vs replacement. Efficiency of new furnace must be $\geq 95\%$
Electric Furnace Replacement	Electric resistance furnaces can be replaced with ASHPs, regardless of age or condition. Please ensure the home's heating load can be served by the ASHP. New ASHPs must meet NEEP Cold Climate specifications: <ul style="list-style-type: none"> • HSPF2 ≥ 7.7 (9 HSPF equivalent) • COP @ 5° F ≥ 1.75 • SEER2 ≥ 14.3 (15 SEER equivalent) Please consult with the homeowner, and gain their approval, about replacement of furnace if existing furnace has been replaced recently.
Boiler Replacement	Emergency replacement only. See Mechanical Replacement Decision Trees (Appendix H) for baseline conditions that allow for repair vs replacement. New boiler efficiency should be $\geq 95\%$.
Electric Resistance Base Board Replacement	Electric resistance base board can be replaced with ductless mini splits, regardless of age or condition. Please ensure the home's heating load can be served by the ductless mini splits. New ductless mini splits must meet NEEP Cold Climate specifications: <ul style="list-style-type: none"> • HSPF2 ≥ 8.5 (10 HSPF equivalent) • COP @ 5° F ≥ 1.75 • SEER2 ≥ 15 (15 SEER equivalent)
Natural Gas Water Heater Replacement	Emergency replacement only. See Mechanical Replacement Decision Trees (Appendix H) for baseline conditions that allow for repair vs replacement. Energy factor of new water heater must be ≥ 0.67 .
Electric Resistance Water Heaters Replacement	Existing electric resistance water heaters can be replaced with Heat Pump Water Heaters regardless of age or condition. New Heat Pump Water Heater must be Energy Star Rated. Please consult with homeowner, and gain their approval, about replacement of water heater if existing water heater has been replaced recently.

Central Air Conditioner Replacement	Emergency replacement only. CAC must be \leq SEER 10 and manufactured before 2000 to qualify for replacement. The efficiency of the new CAC must have SEER $2 \geq 15.2$ (16 SEER equivalent). See Mechanical Replacement Decision Trees (Appendix H) for baseline conditions that allow for repair vs replacement.
Gas Furnace Tune-Up	Furnaces must not have received a tune-up within the last 3 years. Note: Electric furnace tune-ups are not allowed as the furnace should be replaced with a heat pump.
Boiler Tune-Up	Boilers must not have received a tune-up within the last 3 years.
Room Air Conditioner	Emergency replacement only (i.e., room A/C is nonfunctional). Replace with Energy Star efficiency.
EC Motors	When furnace or HVAC system is older but running well Static pressure should be taken to ensure system is functioning as specified