

Smart-E Measures	Technical Standards
Home Performance/ Efficiency*	
Air Sealing	
Attic Insulation	Ceiling starting R-Value must be \leq R19, upgrade to \geq R38
Duct Sealing	
Energy Efficient Zone Heating Controls	Please contact CGB for technical standards
Energy Efficient Lighting Systems	Must be LED lighting
Floor Insulation	Floor between conditioned and unconditioned space (e.g. basement, garage); starting R-value must be \leq R6, upgrade to \geq R19
Wall insulation	Wall starting R-value must be \leq R4, upgrade to \geq R13. No below grade walls or interior walls.
Windows - Replacement	ENERGY STAR, double pane, U-factor \leq 0.27. Not for unconditioned spaces
Heating and Cooling*	
Air Source Heat Pump	Split systems: ENERGY STAR, 16 SEER, 12.5 EER, 10.0 HSPF Single packaged systems: ENERGY STAR, 16 SEER, 12 EER, 8.2 HSPF
Biomass (Furnace or Boiler)	ASME Certified, 85% AFUE, Fully Automated
Central Air Conditioning	Split systems: ENERGY STAR, 16 SEER, 12.5 EER / Single packaged systems: ENERGY STAR, 16 SEER, 12 EER
Ductless Mini-Split Heat Pump	Single Indoor Unit: 20 SEER, 10 HSPF ENERGY STAR and AHRI Rated
	Multi-Indoor Units: 18 SEER, 9 HSPF ENERGY STAR and AHRI Rated
ECM Boiler Circulator Pump	Installed on any fuel boiler
Ground Source Heat Pump	GLHP Closed Loop Water to Air 17.1 EER, 3.6 COP DX Direct Expansion Refrigerant 16.0 EER, 3.6 COP Water to Water 16.1 EER, 3.1 COP
Hot Water Boiler - Natural Gas	ENERGY STAR, 90% AFUE with temperature reset or purge control
Hot Water Boiler - Oil	ENERGY STAR, 87% AFUE with temperature reset or purge control
Hot Water Boiler - Propane	ENERGY STAR, 90% AFUE with temperature reset or purge control
Natural Gas Conversion - Burner	
Natural Gas Conversion - CIAC	Contributions in Aid of Construction
Steam Boilers - all fuels	82% AFUE
Warm Air Furnace - Natural Gas	ENERGY STAR, AHRI rated 90% - 94% AFUE, Performance EAE of 2% or lower
Warm Air Furnace - Natural Gas - High Efficiency	ENERGY STAR, AHRI rated 95% AFUE, Performance EAE of 2% or lower
Warm Air Furnace - Propane	ENERGY STAR, AHRI rated 95% AFUE, Performance EAE of 2% or lower
Warm Air Furnace - Oil	ENERGY STAR, AHRI rated 85% AFUE
Weather Responsive Controls - Natural Gas	

Smart-E Measures	Technical Standards
Heating and Cooling (continued)	
Weather Responsive Controls - Oil	
Weather Responsive Controls - Propane	
Water Heating*	
Heat Pump Water Heater	ENERGY STAR, Energy Factor ≥ 3.0
Indirect Water Heater - Natural Gas	Attached to ENERGY STAR boiler of $\geq 90\%$ AFUE
Natural gas storage or condensing water heater	ENERGY STAR, Thermal Efficiency ≥ 0.95
On-Demand Tankless Water Heater - Natural Gas	ENERGY STAR, Energy Factor ≥ 0.94 with electronic ignition
On-Demand Tankless Water Heater - Propane	ENERGY STAR, Energy Factor ≥ 0.82
Renewables*	
Electric Vehicle Recharging Station	Level 1 or Level 2, commercially available charging station
Micro CHP	Please contact CGB for technical standards
Micro Fuel Cell	Please contact CGB for technical standards
Natural Gas Vehicle Refueling Station	Please contact CGB for technical standards
Smart Meters	Please contact CGB for technical standards
Solar Hot Water Heater	Please contact CGB for technical standards
Solar Photovoltaic Battery Back-up	Please contact CGB for technical standards
Solar Photovoltaic Islanding Inverters	Please contact CGB for technical standards
Solar Photovoltaic System	Please contact CGB for technical standards
Other: Related Energy Measures <i>Total cost cannot exceed 25% of loan amount</i>	
Other: Asbestos remediation	
Other: Electric service upgrade	
Other: ENERGY STAR appliances	
Other: Mold remediation	
Other: Roof repair (must be done in conjunction with a solar or attic or wall insulation project)	
Other: Structural remediation	
Other: Tree removal (must be done in conjunction with a solar project)	
Other: Unlisted but relevant to improving the energy performance of a home	

* Rebates may be available. Please consult with your contractor