

Smart-E Measures	Technical Standards
Home Performance/ Efficiency*	
Air Sealing	
Attic Insulation	Ceiling starting R-Value must be <=19 and final R-Value must be >=38
Duct Sealing	
Energy Efficient Zone Heating Controls	Please contact CGB for technical standards
Energy Efficient Lighting Systems	Please contact CGB for technical standards
Floor Insulation	Floor between conditioned and unconditioned space (e.g. basement, garage) R-value must be <=6, upgrade to >=19
Wall insulation	Walls must be <=4, upgrade to >=13. No below grade walls or interior walls.
Windows - Replacement	ENERGY STAR U-factor < or = 0.27. Not for unconditioned spaces
Heating and Cooling*	
Air Source Heat Pump	Must meet or exceed ENERGY STAR: 16 SEER, 12.5 EER, 10.0 HSPF for split systems: 16 SEER , 12 EER, 8.2 HSPF for single packaged systems
Biomass (Furnace or Boiler)	ASME Certified, 85% AFUE, Fully Automated
Central Air Conditioning	Must meet or exceed ENERGY STAR: 16 SEER, 12.5 EER for split systems / 16 SEER, 12 EER for single packaged systems
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	
Steam Boilers - all fuels	83% 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 with COP of 2.0 or greater
Indirect Water Heater - Natural Gas	Attached to ENERGY STAR Boiler of AFUE of 90% or greater
Natural gas storage or condensing water heater	Energy Factor of ≥ 0.80 (storage) thermal efficiency of ≥ 0.95 (condensing)
On-Demand Tankless Water Heater - Natural Gas	ENERGY STAR: EF of 0.94 or greater
On-Demand Tankless Water Heater - Propane	ENERGY STAR: EF of 0.82 or greater
Renewables*	
Electric Vehicle Recharging Station	Please contact CGB for technical standards
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	15° < tilt < 60°, 104° < azimuth < 284° (compass), shading $\leq 25\%$, OG-300 Systems
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: ENERGY STAR appliances	
Other: ENERGY STAR QIV incentive	
Other: Mold Remediation	
Other: Roof Repair	
Other: Structural Remediation	
Other: Tree removal for solar	
Other: Unlisted but relevant to improving the energy performance of a home	

* Rebates may be available. Please consult with your contractor