



Smart-E Measures	Technical Standards
Health, Safety, & Resiliency*	
Asbestos Abatement (including vermiculite)	Please contact IPC for standards
ENERGY STAR Cool Roofs	Low Slope ≤ 2/12, Initial Solar Reflectance ≥ 0.65, 3-Year Solar Reflectance ≥ 0.50
	Steep Slope > 2/12, Initial Solar Reflectance ≥ 0.25, 3-Year Solar Reflectance ≥ 0.15
Mold Remediation	Please contact IPC for standards
Whole Home Generator	Must be EPA compliant gas / propane
Home Performance / Efficiency*	
Air Sealing	Blower-door guided air sealing
Ceiling Insulation	Starting R-Value must be ≤ R11, upgrade to ≥ R30
Duct Sealing	Blower door and duct pressurization, post-CFM values ≤ 10% of total fan flow
Energy Efficient Zone Heating Controls	Please contact IPC for standards
Energy Efficient Lighting Systems	Must be LED lighting
Floor Insulation	Starting R-Value must be ≤ R-22, upgrade to ≥ R-30
Wall insulation	Starting R-Value must be ≤ R11, upgrade to ≥ R19
Windows - Solar screens	Solar screen installation
Windows - Replacement	U-Factor Btu ≤ 0.30; SHGC ≤ 0.25
Heating & Cooling*	
Air Source Heat Pump	≥ 15 SEER, ≥ 11.8 EER, ≥ 8.2 HSPF OR ≥ 14.3 SEER2, ≥ 11.3 EER, ≥ 6.9 HSPF
Biomass (Furnace or Boiler)	ASME Certified, ≥ 85% AFUE, Fully Automated
Central Air Conditioning	≥ 15 SEER, ≥ 11.8 EER OR ≥ 14.3 SEER2, ≥ 11.3 EER
Combination Boiler	Water heating: ≥ 0.87 UEF; Space heating: ≥ 92% AFUE
Evaporative Cooling	Saturation Effectiveness > 85%
Ductless Mini-Split Heat Pump	≥ 16 SEER, ≥ 9 HSPF OR ≥ 15.2 SEER2, ≥ 7.6 HSPF
ECM Boiler Circulator Pump	Installed on any boiler
Ground Source Heat Pump	Open Loop: ≥ 3.6 COP, ≥ 16.2 EER OR ≥ 3.6 COP, ≥ 15.8 EER
	Open Loop: ≥ 3.6 COP, ≥ 16.2 EER OR ≥ 3.6 COP, ≥ 15.8 EER
	Direct Expansion: ≥ 3.5 COP, ≥ 15.0 EER OR ≥ 3.5 COP, 14.4 EER
High Efficiency Boiler - Natural Gas and Propane	ENERGY STAR, ≥ 95% AFUE
High Efficiency Boiler - Oil	ENERGY STAR, ≥ 87% AFUE
High Efficiency Furnace - Natural Gas and Propane	ENERGY STAR, ≥ 92% AFUE
High Efficiency Furnace - Oil	ENERGY STAR, ≥ 85% AFUE
Natural Gas Conversion - Burner	
Natural Gas Conversion - Cost to connect	
Steam Boilers - all fuels	≥ 82% AFUE
Weather Responsive Controls	

Water Heating*		
Heat Pump Water Heater	ENERGY STAR, UEF ≥ 2.8 and FHR of 45	
Natural gas storage or condensing water heater	ENERGY STAR, UEF ≥ .73	
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 ≥ 0.92	
Renewables*		
Electric Vehicle Recharging Station	Level II EV charger	
Micro CHP	Proof of incentive. If no eligible incentives, case by case review by Smart-E team. Based on power production.	
Micro Fuel Cell	Proof of incentive. If no eligible incentives, case by case review by Smart-E team. Based on power production.	
Smart Meters	ENERGY STAR	
Solar Hot Water Heater	Proof of incentive. If no eligible incentives, case by case review by Smart-E team. Based on power production.	
Solar Photovoltaic Battery Back-up	Proof of incentive. If no eligible incentives, case by case review by Smart-E team. Based on power production.	
Solar Photovoltaic Islanding Inverters	Proof of incentive. If no eligible incentives, case by case review by Smart-E team. Based on power production.	
Solar Attic Fans	Proof of incentive. If no eligible incentives, case by case review by Smart-E team. Based on power production.	
Rooftop Solar Photovoltaic	Proof of incentive. If no eligible incentives, case by case review by Smart-E team. Based on power production.	
Other: Related Energy Measures - Total cost cannot exceed 25% of loan amount		
Other: Electric service upgrade	Up to code	
Other: ENERGY STAR appliances	Refrigerators, ovens, dish washer, clothes washers, swamp coolers, etc.	
Other: Lead abatement	Please contact IPC	
Other: Knob & Tube removal	Please contact IPC	
Other: Roof repair	Must be done in conjunction with a Solar PV or attic/wall insulation project	
Other: Air filtration for air quality	Please contact IPC	
Other: Structural remediation	Please contact IPC	
Other: Tree removal	Must be done in conjunction with a Solar PV project	
Other: Unlisted but relevant to improving the energy performance, safety, or resiliency of a home	Please contact IPC	
Other: Water efficiency measures	Please contact IPC	

^{*} Rebates may be available. Please consult with your contractor.

