

## smart-eloan

Smart-E Measures	Technical Standards
	Health, Safety, & Resiliency*
Asbestos Abatement (including vermiculite)	Please contact IPC for standards.
ENERGY STAR Cool Roofs	Low Slope $\leq 2/12$ , Initial Solar Reflectance $\geq 0.65$ , 3-Year Solar Reflectance $\geq 0.50$
	Steep Slope > 2/12, Initial Solar Reflectance $\ge 0.25$ , $-3$ -Year Solar Reflectance $\ge 0.15$
Vold 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 ≥ R38
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	≤ R-22, upgrade to R-30
Wall insulation	Starting from $\leq$ R11 to $\geq$ R19
Solar screen installation	Eligible solar screen fabric must have a heat gain coefficient (SHGC) of 0.40 or lower.
Windows - Replacement	Energy Star Rated for Appropriate Climate Zone, U Factor Btu $\leq$ 0.30; SHGC $\leq$ 0.4
	Heating and Cooling*
Air Source Heat Pump	16 SEER, 12 EER and above, 9 HSPF and above
Biomass (Furnace or Boiler)	ASME Certified, 85% AFUE, Fully Automated
Central Air Conditioning	15 SEER, 11.8 EER and above?
Combination Boiler	Water heating: 0.87 UEF or greater; space heating: 92% AFUE or greater
Evaporative Cooling	Saturation Effectiveness > 85%
Ductless Mini-Split Heat Pump	16 SEER; 9 HSPF
ECM Boiler Circulator Pump	Installed on any boiler
	Open Loop: $\geq$ 3.6 COP, $\geq$ 16.2 EER
Ground Source Heat Pump	Closed Loop: $\geq$ 3.3 COP, $\geq$ 14.1 EER
	Direct Expansion: $\geq$ 3.5 COP (Heating), $\geq$ 15.0 EER (Cooling)
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 rated,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
Miero CUD	Proof of incentive. In case of no eligible incentives, case by case review by Smart-E team
Micro CHP	Based on power production.
Micro Fuel Cell	Proof of incentive. In case of no eligible incentives, case by case review by Smart-E team
	Based on power production.
Smart Meters	ENERGY STAR
	Proof of incentive. In case of no eligible incentives, case by case review by Smart-E team
Solar Hot Water Heater	Based on power production.
Solar Photovoltaic Battery Back-up	Proof of incentive. In case of no eligible incentives, case by case review by Smart-E team
	Based on power production.
Solar Photovoltaic Islanding Inverters	Proof of incentive. In case of no eligible incentives, case by case review by Smart-E team
	Based on power production.
Solar Attic Fans	Proof of incentive. In case of no eligible incentives, case by case review by Smart-E team
	Based on power production.
Poofton Salar Photovoltain	Proof of incentive. In case of no eligible incentives, case by case review by Smart-E team
Rooftop Solar Photovoltaic	Based on power production.
	Other: Related Energy Measures
	Total cost cannot exceed 25% of loan amout

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 or attic or 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 project
Other: Unlisted but relevant to improving the energy performance,	Please contact IPC.
safety, or resiliency of a home	
Other: Water efficiency measures	Please contract IPC.
* Rebates may be available. Please consult with your contractor	v09222

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