

Smart-E Loan Eligible Measures

Code #	SMART-E MEASURES	Technical Standards	<u>Estimated</u> UI and CL&P Incentive	<u>Estimated</u> NPU Incentive
Home Performance/ Efficiency				
1	Air Sealing		Current HES \$/cfm incentive through Core Services and for HPWES	
4	Duct Sealing		Current HES \$/cfm incentive through Core Services and for HPWES	
6	Energy Efficient Zone Heating Controls	Please contact CEFA for technical standards		
7	Energy Efficient Lighting Systems	Please contact CEFA for technical standards		
10	Insulation	Final R-Value must be ≥ 38 (attic only). Ceiling must be ≤ 19 , upgrade to ≥ 38 . Walls must be ≤ 4 , upgrade to ≥ 13 . No below grade walls or interior walls. Floor between conditioned and unconditioned space (e.g. basement, garage) R-value must be ≤ 6 , upgrade to ≥ 19	Wall and Attic - \$1/sq. ft., up to 50% of job cost. Floor - \$0.50/sqft up to 50% of job cost	Attic Insulation - \$0.50/sq.ft. electric or natural gas heat; \$0.50/sq.ft. central AC
28	Windows - Replacement	ENERGY STAR U-factor ≤ 0.30 . Not for unconditioned spaces	\$50/window if replacing single pane	
Heating and Cooling				
2	Air Source Heat Pump	Must meet or exceed ENERGY STAR: 14.5 SEER, 12 EER, 8.2 HSPF for split systems; 14 SEER, 11 EER, 8.0 HSPF for single packaged systems	\$250 lost opportunity	\$200 rebate TIER 1 - Min. Qualifying 15.0 SEER & 9.0 HSPF (Split); 14.0 SEER & 8.0 HSPF (Single); 11.5 EER (Both - Tons > 5.4 to 20.0); 10.0 EER (Both - Tons > 20 to 30); \$300 TIER 2 - 15.5 SEER & 9.0 HSPF (both)
3	Central Air Conditioning	Must meet or exceed ENERGY STAR: 14.5 SEER, 12 EER, for split systems: 14 SEER, 11 EER for single packaged systems	\$250 lost opportunity	
5	Ductless Mini-Split Heat Pump	Must be ENERGY STAR: meet or exceed 14.5 SEER, 12 EER, 8.2 HSPF with inverter driven outdoor compressor	\$250 - lost opportunity - any customer regardless of heating fuel \$1,000	
8	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	\$500/ton up to \$1,500. A Geothermal Eligibility Application must be completed by HES contractor/ customer and submitted to the electric utility and approved by the Geothermal Project Coordinator	\$150/ton: < 20 tons, BTUS 240,000; Min. Qualifying EER 14.0
11	High Efficiency Window AC Units	PTAC/PTHP 8,000 BTU or Below: 12.5 EER – 3.0 COP 8,100 BTU to 10,000 BTU: 12.0 EER – 2.9 COP 10,100 BTU to 12,000 BTU: 11.5 EER – 2.9 COP 12,100 BTU to 13,000 BTU: 11.0 EER – 2.9 COP 13,100 BTU and above: 10.0 EER – 2.8 COP		\$60 rebate for purchase of an eligible Energy Star qualified window AC \$60 rebate for purchase of an eligible Energy Star qualified window AC
12, 16	Biomass (Furnace or Boiler)	ASME Certified, 85% AFUE, Fully Automated		
38	Warm Air Furnace - Natural Gas	ENERGY STAR: AHRI rated 90% - 94% AFUE, Performance EAE of 2% or lower		

Code #	SMART-E MEASURES	Technical Standards	<u>Estimated</u> UI and CL&P Incentive	<u>Estimated</u> NPU Incentive
13	Warm Air Furnace - Natural Gas - High Efficiency	ENERGY STAR: AHRI rated 95% AFUE, Performance EAE of 2% or lower	\$600 - lost opportunity or gas conversion	\$400 rebate - <=150,000 BTU
14	Warm Air Furnace - Oil	ENERGY STAR 87% AFUE, Performance EAE of 2% or lower	\$200.00	
15	Warm Air Furnace - Propane	ENERGY STAR AHRI rated 95% AFUE, Performance EAE of 2% or lower	\$200.00	
17	Hot Water Boiler - Natural Gas	ENERGY STAR 90% AFUE with temperature reset or purge control	\$750 lost opportunity - any customer regardless of heating fuel	\$600 Condensing & Tankless <=300,000; \$850 Tankless Boiler/WH Combined <=300,000/,4GPM; \$1050 Tankless Boiler/WH Combined <=300,000/>=4 GPM Combined
18	Hot Water Boiler - Oil	ENERGY STAR 87% AFUE with temperature reset or purge control		
19	Hot Water Boiler - Propane	ENERGY STAR 90% AFUE with temperature reset or purge control		
23	Natural Gas Conversion of code efficiency equipment (Burner and CIAC, if applicable)			
34	Steam Boilers - all fuels	83% AFUE	Handled on a case by case basis	
35	Weather Responsive Controls - Natural Gas		Handled on a case by case basis	
36	Weather Responsive Controls - Oil		Handled on a case by case basis	
37	Weather Responsive Controls - Propane		Handled on a case by case basis	
Water Heating				
9	Heat Pump Water Heater	Energy Factor (EF) of 2.0 or greater, ENERGY STAR		\$500 Energy Star HE electric water heater
20	Indirect Water Heater - Natural Gas	attached to ENERGY STAR Boiler of AFUE of 90% or greater		\$250 rebate
24	On-Demand Tankless Water Heater - Natural Gas	ENERGY STAR: EF of 0.82 or greater	\$300 per unit lost opportunity	\$250 rebate <4 GPM; \$450 >=4GPM
25	On-Demand Tankless Water Heater - Propane	ENERGY STAR: EF of 0.82 or greater		
38	Natural gas storage or condensing water heater	Energy Factor of >=0.80 (storage) thermal efficiency of >=0.95 (condensing)	\$200	
Renewables				
33	Solar Hot Water Heater	15° < tilt < 60°, 104° < azimuth < 284° (compass), shading <=25%, OG-300 Systems	None	None
26	Electric Vehicle Recharging Station	Please contact CEFIA for technical standards		
27	Natural Gas Vehicle Refueling Station	Please contact CEFIA for technical standards		
29	Smart Meters	Please contact CEFIA for technical standards		
30	Solar Photovoltaic System	Must meet CEFIA's standards for rebates: \$/W up to 5kW: \$1.75 \$/W from >5 to 10KW: \$0.55		
31	Solar Photovoltaic Islanding Inverters	Please contact CEFIA for technical standards		
32	Solar Photovoltaic Battery Back-up	Please contact CEFIA for technical standards		
21	Micro CHP	Contact CEFIA for technical requirements		
22	Micro Fuel Cell	Contact CEFIA for technical requirements		
Other: Related Energy Measures				
0A	Other: Asbestos Remediation			
0B	Other: ENERGY STAR appliances			
0C	Other: ENERGY STAR QIV incentive			
0D	Other: Mold Remediation			
0E	Other: Roof Repair			
0F	Other: Structural Remediation			
0G	Other: Unlisted but relevant to improving the energy performance of a home			
0H	Other: Tree removal for solar			

Note: total cost of 0 measures 0A- 0H cannot exceed 20% of loan amount

v05/27/2014