



Yucaipa Energy Independence Program Eligible Equipment and Improvements

Please share this list to your contractor.

The City of Yucaipa Energy Independence Program offers funds for a number of equipment types, including energy efficiency measures, solar systems, water conservation measures, and other innovative, energy-saving and energy generation custom measures. In each case, if a rebate is available to the property owner to be applied to the purchase price, that amount must be deducted from the amount of financing requested.

Residential Energy Efficiency Measures

<u>Improvement</u>	<u>Efficiency Requirement</u>
Attic and Wall Insulation	<ul style="list-style-type: none"> • Energy Star Listed
Attic Fans	<ul style="list-style-type: none"> • Energy Star Listed
Cool Roof Systems	<p>As defined by the 2005 California Building Energy Efficiency Standards (California Energy Code), roofing replacement eligible under this program will be:</p> <ul style="list-style-type: none"> • Tested and Rated through the Cool Roof Rating Council (CRRC) • Be labeled for its initial reflectance and initial emittance as determined in the CRRC test and be labeled that the product meets Title 24, Section 118(i) • Achieve at least a 0.75 initial emittance and 0.70 initial reflectance or, if the initial emittance is less than 0.75, have an initial reflectance of at least $[0.70 + \{0.34 \times (0.75 - \text{initial emittance})\}]^*$ and, if applied as a liquid coating in the field, be applied at a minimum dry mil thickness of 20 mils* across the entire roof surface and meet performance requirements listed in the table shown in the end of this packet***.
Doors	<ul style="list-style-type: none"> • Opaque – U Value 0.21 or less • Less than or equal to ½-Lite – U Value 0.27 or less; Solar Heat Gain Coefficient 0.30 or less • Great than ½-Lite – U Value 0.32 or less; Solar Heat Gain Coefficient 0.30 or less
Evaporative Coolers	<ul style="list-style-type: none"> • Separate ducting systems: Duct system must be independent of the air conditioning and heating duct system
Geothermal Exchange Heat Pumps	<p><u>Minimum Efficiency</u></p> <ul style="list-style-type: none"> • Ground source exchange open loop system 17.8 EER or higher • Ground source exchange closed loop system 15.5 EER or higher
Heat Pumps	<p><u>Minimum Efficiency</u></p> <ul style="list-style-type: none"> • Split Systems: 14.5 SEER <i>and</i> 12 EER or higher • Packaged Systems: 14 SEER <i>and</i> 11 EER or higher

Home Sealing	<ul style="list-style-type: none"> Follow Energy Star Guidelines
HVAC Systems (Heating, Ventilating and Air Conditioning)	<u>Minimum Efficiency</u> <ul style="list-style-type: none"> Split Systems: 14 SEER <i>and</i> 12 EER or higher; Natural Gas Furnace of 90% AFUE or higher Packaged Systems: 14 SEER <i>and</i> 11 EER or higher.
Irrigation Sensors	<ul style="list-style-type: none"> Irrigation controlled systems, with systems, with “evapotranspiration” based controllers or Smart Irrigation Controllers (controllers that automatically adjust based on the weather conditions, plant materials, slope, etc.)
Light Fixtures	<ul style="list-style-type: none"> Energy Star Listed
Natural Gas Storage Water Heaters	<ul style="list-style-type: none"> Energy Factor (EF) of .67 or higher Energy Star Listed
Pool Pumps	<ul style="list-style-type: none"> Variable flow and/or multi-speed with controllers and timer that allows to program for different speeds at different times of day. Not used exclusively for spas, boosters or fountains.
Reflective Roofs and Coatings	<ul style="list-style-type: none"> Energy Star Listed
Reflective Insulation or Radiant Barriers	<ul style="list-style-type: none"> Energy Star Listed
Skylights	<ul style="list-style-type: none"> U Value 0.57 or less Solar Heat Gain Coefficient 0.30 or less Energy Star Listed Only for replacement of existing skylights; no new skylights allowed.
Solar Tubes	<ul style="list-style-type: none"> Energy Star Listed
Tankless Water Heaters	<ul style="list-style-type: none"> Energy Factor (EF) of .82 or higher Energy Star Listed
Weather Stripping	<ul style="list-style-type: none"> Follow Energy Star Guidelines
Window Filming	<ul style="list-style-type: none"> In compliance with the National Fenestration Ratings Council (NFRC) glazing attachment ratings for solar heat a gain and visible transmittance
Windows	<ul style="list-style-type: none"> U Value 0.35 or less Solar Heat Gain Coefficient 0.30 or less Energy Star Listed
Whole House Fan	<ul style="list-style-type: none"> Energy Star Listed

Commercial Energy Efficiency Improvements

Most residential improvements are also available for commercial buildings. In addition to the listed improvements below, many other improvements are available in a commercial setting. Improvements in a commercial setting may involve measures that are not ‘off the shelf’ and much more custom in nature. These proposed improvements will be evaluated by program staff and funded, if appropriate.

<u>Improvement</u>	<u>Efficiency Requirement</u>	
Lighting Control Systems (including occupancy sensors and other energy-saving measures)	<ul style="list-style-type: none"> • All permanently installed outdoor luminaries employing lamps rated over 100 watts shall either: have a lamp efficacy of at least 60 lumens per watt; or be controlled by a motion sensor • All permanently installed outdoor lighting shall be controlled by a photocontrol or astronomical time switch that automatically turns off the outdoor lighting when daylight is available • All outdoor signs shall be controlled with a dimmer that provides the ability to automatically reduce sign power by a minimum of 65 percent during nighttime hours • All controls shall be certified as meeting the Acceptance Requirements for Code Compliance. 	
Building and Energy Management Systems	High Efficiency Electric Hand Dryers	HVAC duct zoning control systems

Residential and Commercial Solar Measures

<u>Improvement</u>	<u>Efficiency Requirement</u>
Photovoltaic Solar Systems	<ul style="list-style-type: none"> • All components must be California Energy Commission (CEC) listed • Must be installed by CSI registered installer
Thermal Solar Systems	<ul style="list-style-type: none"> • Must be rated by the Solar Rating Certification Council (SRCC) • Energy Star listed

Residential and Commercial Water Conservation Measures

<u>Improvement</u>	<u>Efficiency Requirement</u>
High Efficiency Toilets	<ul style="list-style-type: none"> • Average flush volume of 1.28 gallons or less
Urinals & Waterless Urinals (Commercial Only)	<ul style="list-style-type: none"> • WaterSense qualified (gpf of 0.5 or less)

Showerheads and Bathroom Aerators	<ul style="list-style-type: none"> • Flow of 1.5 gpm or less 	
Demand Initiated Water Softeners	<ul style="list-style-type: none"> • Energy star rated 	
Core Plumbing Systems	Demand Initiated Hot Water Systems and Hot Water Heaters	Drip Irrigation Systems
Hot Water Recirculation Systems	Rainwater Cisterns	Weather Based or Smart Irrigation Controllers
Whole House Manifold Systems		

Custom Measures

EIP Loans are also available for projects that are not “off the shelf” improvements listed under other sections of this listing. These projects may involve large-scale industrial or commercial energy efficiency improvement projects, as well as more complex and cutting-edge energy management solutions and emerging technologies.

Custom measures will be funded only if sufficient proof of energy savings is provided to EIP Staff. The EIP Administrator reserves the right to defer funding until he or she deems the evidence sufficient to verify the improvement has met specific performance requirements, established in advance, as well as the right to decline funding of a custom measure.

*****Cool Roof System Continued:**

Physical Property	ASTM*** Test Procedure	Requirement
Initial percent elongation (break)	D 2370	Minimum 60% 0 °F (-18 °C) Minimum 200% 73 °F (23 °C)
Initial tensile strength (maximum stress)	D 2370	Minimum 100 psi (1.38 Mpa) 73 °F (23 °C) Minimum 200 psi (2.76 Mpa) 0 °F (-18 °C)
Final percent elongation (break) after accelerated weathering 1000 h	D 2370	Minimum 40% 0 °F (-18 °C) Minimum 100% 73 °F (23 °C)
Permeance	D 1653	Maximum 50 perms
Accelerated weathering 1000 h	D 4798	No cracking or checking Any cracking or checking visible to the eye fails the test procedure
<p>NOTE: Aluminum-pigmented asphalt roof coatings and cement based roof coatings are not required to meet this table. The former must meet ASTM D2824, D6648, and D3805 and the latter must meet greater dry mil thicknesses (depending on the substrate) and meet ASTM D822. Details are found in Standards Section 118(i)3.</p>		