

# California HERO Program Residential Eligible Product List

## All Products

In addition to the HERO Product Eligibility Specifications listed below, it is the sole responsibility of the HERO Contractor and property owner (Project Stakeholders) to meet or exceed applicable local, state, and/or federal permitting, codes, and standards. Project Stakeholders are fully and solely responsible for ensuring products are installed in accordance with all applicable manufacturer specifications, warranty guidelines, and industry best practices. All products are to be installed as real property that is not intended for removal over the useful life of the product.

## Renewable and Alternative Energy

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Alternative Energy	Advanced Energy Storage System	<ol style="list-style-type: none"> <li>System must be pre-approved and listed in the HERO Eligible Product Database</li> <li>System must have obtained certification from a nationally recognized testing laboratory for one of the acceptable standards:                             <ol style="list-style-type: none"> <li>UL 1973</li> <li>UL Subject 9540</li> <li>IEC62842-2</li> <li>IEC 62109</li> <li>UL 1741</li> <li>Other equivalent standard</li> </ol> </li> <li>System must maintain roundtrip efficiency <math>\geq 63.5\%</math></li> <li>System must carry a minimum 10-year manufacturer warranty</li> </ol>	10
	Electric Vehicle Charging Station	<ol style="list-style-type: none"> <li>Product must be certified as meeting the Underwriters Laboratory Subject 2594 Standard Testing for Charging Stations</li> <li>Product must be a Level 2 charger with SAE J1772 standard charging plug</li> </ol>	10
	Fuel Cell Power System	<ol style="list-style-type: none"> <li>System must be certified as meeting the ANSI/CSA America FC1 standard</li> </ol>	15

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Alternative Energy	Small Wind Turbine	1. Product must be certified by the Small Wind Certification Council as meeting the requirements of the AWEA Small Wind Turbine Performance and Safety Standard (9.1-2009)	20
Solar Electric	Solar Inverter	1. Product must be listed as California Energy Commission as SB1-compliant product	20
	Solar Panel	1. Product must be listed as California Energy Commission as SB1-compliant product	25
Solar Thermal	Solar Pool Heater	1. Product must have the OG-100 Collector Certification by the Solar Rating and Certification Corporation (SRCC)	15
	Solar Water Heater	1. System must have the OG-300 System Certification by the Solar Rating and Certification Corporation (SRCC)	15

## Energy Efficiency

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Building Envelope	Air Sealing	1. Air sealing should be performed to BPI, ENERGY STAR, and/or ASHRAE 62.2 guidelines for air sealing, ventilation, and weatherization	10
	Attic Insulation	1. R-value $\geq 38$ 2. Product should be installed following ENERGY STAR guidelines	25
	Cool Roof - Prescriptive	1. Product must be listed in the CRRC or ENERGY STAR product directories. 2. Low-Slope Roof ( $\leq 2:12$ ) Efficiency: a. Aged (3 yrs.) Solar Reflectance $\geq 0.5$ 3. Steep-Slope Roof ( $> 2:12$ ) Efficiency: a. Aged Solar Reflectance $\geq 0.15$	25

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PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Building Envelope	Cool Roof - Performance	<ol style="list-style-type: none"> <li>1. If a Cool Roof - Prescriptive roofing product is not specified, one of the following performance measures must also be implemented in the scope of work:               <ol style="list-style-type: none"> <li>a. Provide an air-space of at least 1” between the top of the roof deck and the bottom of the roofing product</li> <li>b. Insulate attic floor to R-value <math>\geq 38</math></li> <li>c. Seal &amp; Insulate attic HVAC duct work to R-8 and <math>\leq 6\%</math> leakage</li> <li>d. Install an eligible radiant barrier (Reflectivity <math>\geq 0.9</math> and Emittance <math>\leq 0.1</math>) with reflective side facing air space</li> <li>e. Insulate above roof deck to R-value <math>\geq 4</math></li> <li>f. Install roof construction with thermal mass with a weight of at least 25 lb/ft<sup>2</sup></li> </ol> </li> </ol>	25
	Heat Reflective/Cool Wall Coverings*	<ol style="list-style-type: none"> <li>1. Product must be a preapproved HERO Cool Wall Coating product</li> <li>2. Product must have solar reflectance <math>\geq 0.5</math> as tested to ASTM C1549-09 standard</li> <li>3. Product primary application surface must be exterior wall surfaces of conditioned buildings</li> <li>4. Trim, soffit, and/or fascia may be included in work scope as secondary items, as applicable</li> <li>5. Product is <u>only</u> eligible to be installed on properties located within CA Building Climate Zones 4-10 and 12-15</li> </ol> <p><i>*Heat reflective/ cool wall coverings only eligible in LA County HERO Program boundaries.</i></p>	20
	Insulated Siding	<ol style="list-style-type: none"> <li>1. R-value <math>\geq 2</math></li> <li>2. Certified as meeting ASTM D7793 standard and listed by Vinyl Siding Institute or certified as meeting an alternative equivalent standard</li> <li>3. Primary application surface must be exterior walls of conditioned buildings</li> <li>4. Trim, soffit, and/or fascia may be included in work scope as secondary items, as applicable</li> </ol>	25

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PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Building Envelope	Radiant Barrier	<ol style="list-style-type: none"> <li>Radiant Barrier type products must be installed with reflective side facing an open-air space and meet the following performance ratings:                             <ol style="list-style-type: none"> <li>Reflectivity <math>\geq 0.9</math></li> <li>Emittance <math>\leq 0.1</math></li> </ol> </li> <li>Radiation Control Coating type products must be installed to face an open-air space and meeting the following performance ratings:                             <ol style="list-style-type: none"> <li>Emittance <math>\leq 0.25</math></li> </ol> </li> </ol>	20
	Under Floor Insulation	<ol style="list-style-type: none"> <li>R-value <math>\geq 19</math></li> <li>Product should be installed following ENERGY STAR guidelines</li> </ol>	25
	Wall Insulation	<ol style="list-style-type: none"> <li>R-value <math>\geq 13</math></li> <li>Product should be installed following ENERGY STAR guidelines</li> </ol>	25
Heating, Ventilation, and Air Conditioning (HVAC)	Air-Source Heat Pump	<ol style="list-style-type: none"> <li>Product must be AHRI rated or pre-approved and listed in the HERO eligible product database.</li> <li>Efficiency requirements:                             <ol style="list-style-type: none"> <li>Split System:                                     <ul style="list-style-type: none"> <li>SEER <math>\geq 14</math></li> <li>HSPF <math>\geq 8.2</math></li> </ul> </li> <li>Package System:                                     <ul style="list-style-type: none"> <li>SEER <math>\geq 14</math></li> <li>HSPF <math>\geq 8.0</math></li> </ul> </li> </ol> </li> </ol>	15
	Attic Fan	<ol style="list-style-type: none"> <li>Product must be equipped with a thermostat control</li> </ol>	15
	Biomass / Wood Stove	<ol style="list-style-type: none"> <li>Product must be certified and listed on the EPA Certified Wood Stoves list</li> </ol>	15
	Boiler	<ol style="list-style-type: none"> <li>Product must be AHRI rated or pre-approved and listed in the HERO eligible product database.</li> <li>Efficiency Requirements:                             <ol style="list-style-type: none"> <li>Oil: AFUE <math>\geq 80\%</math></li> <li>Gas: AFUE <math>\geq 75\%</math></li> </ol> </li> </ol>	20
	Ceiling Fan	<ol style="list-style-type: none"> <li>Product must be ENERGY STAR Certified</li> </ol>	10

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Heating, Ventilation, and Air Conditioning (HVAC)	Central Air Conditioner	<ol style="list-style-type: none"> <li>Product must be AHRI rated or pre-approved and listed in the HERO eligible product database.</li> <li>Efficiency Requirements:               <ol style="list-style-type: none"> <li>SEER ≥ 14                   <ul style="list-style-type: none"> <li>Capacity &lt; 45,000                       <ul style="list-style-type: none"> <li>EER ≥ 12.2</li> </ul> </li> <li>Capacity ≥ 45,000                       <ul style="list-style-type: none"> <li>EER ≥ 11.7</li> </ul> </li> </ul> </li> </ol> </li> </ol> <p><i>*15 years in CSCDA territories</i></p>	20*
	Duct Replacement	<ol style="list-style-type: none"> <li>Duct system leakage:               <ol style="list-style-type: none"> <li>Partial Replacement: ≤ 15% total system nominal flow</li> <li>Full Replacement: ≤ 6% total system nominal flow</li> </ol> </li> <li>Duct Insulation R-Value ≥ 6</li> </ol>	20
	Duct Sealing	<ol style="list-style-type: none"> <li>Ducts should be sealed with UL-181 listed duct sealing materials (mastic, foil tape, duct board, aroclor, etc.)</li> </ol>	20
	Evaporative Cooler	<ol style="list-style-type: none"> <li>Product must be listed in California Energy Commission Appliance Efficiency Database</li> <li>Window installed product is <u>not</u> eligible</li> </ol>	10
	Furnace	<ol style="list-style-type: none"> <li>Product must be AHRI rated or pre-approved and listed in the HERO eligible product database.</li> <li>Efficiency requirements:               <ul style="list-style-type: none"> <li>Oil: AFUE ≥ 83%</li> <li>Gas: AFUE ≥ 80%</li> </ul> </li> </ol>	20

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Heating, Ventilation, and Air Conditioning (HVAC)	Geothermal Heat Pump	<ol style="list-style-type: none"> <li>Product must be ENERGY STAR Certified</li> <li>Closed Loop Water-to-Air Efficiency:               <ol style="list-style-type: none"> <li>EER <math>\geq</math> 14.1</li> <li>COP <math>\geq</math> 3.3</li> </ol> </li> <li>Open Loop Water-to-Air Efficiency:               <ol style="list-style-type: none"> <li>EER <math>\geq</math> 16.2</li> <li>COP <math>\geq</math> 3.6</li> </ol> </li> <li>Closed Loop Water-to-Water Efficiency:               <ol style="list-style-type: none"> <li>EER <math>\geq</math> 15.1</li> <li>COP <math>\geq</math> 3.0</li> </ol> </li> <li>Open Loop Water-to-Water Efficiency:               <ol style="list-style-type: none"> <li>EER <math>\geq</math> 19.1</li> <li>COP <math>\geq</math> 3.4</li> </ol> </li> <li>DGX Efficiency:               <ol style="list-style-type: none"> <li>EER <math>\geq</math> 15.0</li> <li>COP <math>\geq</math> 3.5</li> </ol> </li> </ol>	15
	Heat/Energy Recovery Ventilator	<ol style="list-style-type: none"> <li>Product must be certified by the Home Ventilation Institute (HVI)</li> </ol>	10
	Hydronic Radiant Heating System	<ol style="list-style-type: none"> <li>System must be powered by one of the following high-efficiency heating sources:               <ol style="list-style-type: none"> <li>Boiler (AFUE <math>\geq</math> 85%)</li> <li>Gas Storage Water Heater (EF <math>\geq</math> 0.67)</li> <li>Gas Tankless Water Heater (EF <math>\geq</math> 0.90)</li> <li>Electric Heat Pump Water Heater (EF <math>\geq</math> 2)</li> </ol> </li> </ol>	15
	Mini-Split Air Conditioner	<ol style="list-style-type: none"> <li>Product must be AHRI rated or pre-approved and listed in the HERO eligible product database.</li> <li>Efficiency requirement:               <ol style="list-style-type: none"> <li>SEER <math>\geq</math> 14</li> </ol> </li> </ol> <p><i>*15 years in CSCDA and LA County HERO Program boundaries.</i></p>	20*
	Mini-Split Heat Pump	<ol style="list-style-type: none"> <li>Product must be AHRI rated or pre-approved and listed in the HERO eligible product database.</li> <li>Efficiency requirements:               <ol style="list-style-type: none"> <li>SEER <math>\geq</math> 14</li> <li>HSPF <math>\geq</math> 8.2</li> </ol> </li> </ol>	15
	Ventilation Fan	<ol style="list-style-type: none"> <li>Product must be ENERGY STAR Certified</li> </ol>	10
	Whole House Fan	<ol style="list-style-type: none"> <li>Product must be listed in California Energy Commission Appliance Efficiency Database</li> </ol>	20

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PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Lighting	Lighting Control	<ol style="list-style-type: none"> <li>Product must be listed in the California Energy Commission Appliance Efficiency Database.</li> <li>Eligible control types include:                             <ol style="list-style-type: none"> <li>Automatic Time-Switch</li> <li>Daylight/Photo-Sensor</li> <li>Dimmer</li> <li>Occupant/Motion/Vacancy Sensor</li> </ol> </li> </ol>	20
	Lighting Fixture*	<ol style="list-style-type: none"> <li>Product must be ENERGY STAR Certified</li> </ol> <p><i>*Outdoor lighting fixtures are not eligible for HERO Financing in WRCOG or CA HERO Program bounds.</i></p>	20
Pool Equipment	Automatic Pool Cover	<ol style="list-style-type: none"> <li>Product must be UL certified as meeting ASTM F1346 Standard Performance Specification</li> </ol>	10
	Electric Heat Pump Pool Heater	<ol style="list-style-type: none"> <li>Product must be listed in California Energy Commission Appliance Efficiency Database</li> <li>COP ≥ 4.5</li> </ol>	10
	Gas Pool Heater	<ol style="list-style-type: none"> <li>Product must be listed in California Energy Commission Appliance Efficiency Database</li> <li>Thermal Efficiency ≥ 83%</li> </ol>	10
	Pool Pump	<ol style="list-style-type: none"> <li>Product must be ENERGY STAR Certified</li> <li>Single Speed Pump Efficiency:                             <ol style="list-style-type: none"> <li>EF ≥ 3.8</li> </ol> </li> <li>Multi-Speed Pump Efficiency:                             <ol style="list-style-type: none"> <li>EF ≥ 3.8 for most efficient speed</li> </ol> </li> </ol>	10
Water Heating	Electric Heat Pump Storage Water Heater	<ol style="list-style-type: none"> <li>Product must be ENERGY STAR Certified</li> <li>Efficiency:                             <ol style="list-style-type: none"> <li>EF ≥ 2.0</li> </ol> </li> </ol>	10
	Gas Storage Water Heater	<ol style="list-style-type: none"> <li>Product must be ENERGY STAR Certified</li> <li>Efficiency:                             <ol style="list-style-type: none"> <li>EF ≥ 0.67</li> </ol> </li> </ol>	10
	Gas Tankless Water Heater	<ol style="list-style-type: none"> <li>Product must be ENERGY STAR Certified</li> <li>Efficiency:                             <ol style="list-style-type: none"> <li>EF ≥ 0.90</li> </ol> </li> </ol>	10

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PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Water Heating	Hot Water Delivery System	<ol style="list-style-type: none"> <li>1. System must meet the EPA WaterSense Guide for Efficient Hot Water Delivery Systems definition for one of the following water delivery options:               <ol style="list-style-type: none"> <li>a. Dedicated Recirculation Line</li> <li>b. Whole House Manifold System</li> <li>c. Demand-initiated Recirculating System</li> <li>d. Core Plumbing System</li> </ol> </li> </ol>	25
Windows, Doors, and Skylights	Door	<ol style="list-style-type: none"> <li>1. Product must be NFRC Certified</li> <li>2. Opaque (No Glass) Efficiency:               <ol style="list-style-type: none"> <li>a. U-Factor = Any</li> <li>b. SHGC = Any</li> </ol> </li> <li>3. <math>\leq 1/2</math>-Lite (Some Glass) Efficiency:               <ol style="list-style-type: none"> <li>a. U-Factor = Any</li> <li>b. SHGC = Any</li> </ol> </li> <li>4. <math>&gt; 1/2</math>-Lite (Mostly Glass) Efficiency:               <ol style="list-style-type: none"> <li>a. U-Factor <math>\leq 0.32</math></li> <li>b. SHGC <math>\leq 0.25</math></li> </ol> </li> </ol>	25
	Skylights and Tubular Daylighting Device	<ol style="list-style-type: none"> <li>1. Product must be NFRC Certified</li> <li>2. Efficiency:               <ol style="list-style-type: none"> <li>a. U-Factor <math>\leq 0.58</math></li> <li>b. SHGC = Any</li> </ol> </li> </ol>	20
	Window	<ol style="list-style-type: none"> <li>1. Product must be NFRC Certified</li> <li>2. Efficiency:               <ol style="list-style-type: none"> <li>a. U-Factor <math>\leq 0.32</math></li> <li>b. SHGC <math>\leq 0.25</math></li> </ol> </li> </ol>	25
	Window Film	Product must be NFRC Certified	10



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## Water Efficiency

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Indoor Water Efficiency	Faucet*	<ol style="list-style-type: none"> <li>1. Product must be WaterSense Qualified</li> <li>2. Flow rate <math>\leq</math> 1.5 GPM</li> <li>3. Must be permanently installed</li> </ol> <p><i>*High-efficiency faucet fittings are not eligible for HERO Financing in WRCOG or CA HERO Program bounds.</i></p>	15
	Gray Water System	<ol style="list-style-type: none"> <li>1. System must meet California Plumbing Code, Chapter 16A</li> <li>2. Eligible system types include:               <ol style="list-style-type: none"> <li>a. Single Fixture</li> <li>b. Multi-Fixture Simple (<math>\leq</math> 250 GPD)</li> <li>c. Multi-Fixture Complex (<math>&gt;</math> 250 GPD)</li> </ol> </li> </ol>	20
	Showerhead*	<ol style="list-style-type: none"> <li>1. Product must be WaterSense Qualified</li> <li>2. Flow rate <math>\leq</math> 2.0 GPM</li> </ol> <p><i>*High-efficiency showerheads are not eligible for HERO Financing in WRCOG or CA HERO Program bounds.</i></p>	15
	Toilet*	<ol style="list-style-type: none"> <li>1. Product must be WaterSense Qualified</li> <li>2. Toilet and urinals fixtures are eligible</li> <li>3. Flow rate <math>\leq</math> 1.28 GPF</li> </ol> <p><i>*High-efficiency toilet fixtures are not eligible for HERO Financing in WRCOG or CA HERO Program bounds.</i></p>	20
Outdoor Water Efficiency	Artificial Turf	<ol style="list-style-type: none"> <li>1. Product must be water and air permeable</li> <li>2. Product must be non-toxic and lead free</li> <li>3. Product installation must carry <math>\geq</math> 10 year warranty</li> </ol>	10

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Outdoor Water Efficiency	Artificial Turf Premium	<ol style="list-style-type: none"> <li>Product must be water and air permeable</li> <li>Product must be non-toxic and lead free</li> <li>Product installation must carry <math>\geq</math> 15 year warranty</li> </ol>	15
	Drip Irrigation	<ol style="list-style-type: none"> <li>Product installed in turf, garden, planter, or flower bed area</li> </ol>	10
	Drought Tolerant Landscaping	<ol style="list-style-type: none"> <li>Product installation area must replace existing live turf grass or other irrigated area</li> <li>Products must be installed to limit excess site runoff</li> <li>Requested financing amount may only include:                             <ol style="list-style-type: none"> <li>Removal of existing landscape material</li> <li>Site preparation for installation</li> <li>Installation of eligible hardscape/ groundcover material</li> <li>Installation of eligible irrigation options</li> </ol> </li> <li>Requested finance amount may <b>NOT</b> include:                             <ol style="list-style-type: none"> <li>Installation of live plants or biodegradable plant material</li> <li>Removal/replacement of pre-existing hardscape areas (i.e. driveways, pools, etc.)</li> <li>Installation of water features (i.e. ponds, fountains, etc.)</li> <li>Installation of any other products not listed in specification #3</li> </ol> </li> </ol> <p><a href="#">Full Specifications</a></p>	20
	Rainwater Catchment System	<ol style="list-style-type: none"> <li>Sized to hold <math>\geq</math> 50 gallons at one time</li> <li>Must be permanently installed</li> </ol>	20
	Sprinkler Nozzle*	<ol style="list-style-type: none"> <li>Product must be on SoCal Water Smart Qualified Sprinkler Nozzle product list</li> </ol> <p><i>*High-efficiency sprinkler nozzles are not eligible for HERO Financing in WRCOG or CA HERO Program bounds.</i></p>	10
	Weather-Based Irrigation Controller	<ol style="list-style-type: none"> <li>Product must be WaterSense Qualified</li> </ol>	10