

# HERO Program Residential Eligible Product List

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# 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

# California HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
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

# California HERO Program Residential Eligible Product List

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>	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 Certified</li> <li>Split System Efficiency:               <ol style="list-style-type: none"> <li>SEER <math>\geq 15</math></li> <li>EER <math>\geq 12.5</math></li> <li>HSPF <math>\geq 8.5</math></li> </ol> </li> <li>Package System Efficiency:               <ol style="list-style-type: none"> <li>SEER <math>\geq 15</math></li> <li>EER <math>\geq 12</math></li> <li>HSPF <math>\geq 8.2</math></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 Certified</li> <li>Efficiency:               <ol style="list-style-type: none"> <li>AFUE <math>\geq 85\%</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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PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Heating, Ventilation, and Air Conditioning (HVAC)	Central Air Conditioner	<ol style="list-style-type: none"> <li>1. Product must be AHRI Certified</li> <li>2. Split System Efficiency:               <ol style="list-style-type: none"> <li>a. SEER <math>\geq</math> 15</li> <li>b. EER <math>\geq</math> 12.5</li> </ol> </li> <li>3. Package System Efficiency:               <ol style="list-style-type: none"> <li>a. SEER <math>\geq</math> 15</li> <li>b. EER <math>\geq</math> 12</li> </ol> </li> </ol>	15
	Duct Replacement	<ol style="list-style-type: none"> <li>1. Duct system leakage:               <ol style="list-style-type: none"> <li>a. Partial Replacement: <math>\leq</math> 15% total system nominal flow</li> <li>b. Full Replacement: <math>\leq</math> 6% total system nominal flow</li> </ol> </li> <li>2. Duct Insulation R-Value <math>\geq</math> 6</li> </ol>	20
	Duct Sealing	<ol style="list-style-type: none"> <li>1. Ducts should be sealed with UL-181 listed duct sealing materials (mastic, foil tape, duct board, etc.)</li> </ol>	20
	Evaporative Cooler	<ol style="list-style-type: none"> <li>1. Product must be listed in California Energy Commission Appliance Efficiency Database</li> <li>2. Window installed product is <u>not</u> eligible</li> </ol>	10
	Furnace	<ol style="list-style-type: none"> <li>1. Product must be AHRI Certified</li> <li>2. Efficiency if equipped with ECM:               <ol style="list-style-type: none"> <li>a. AFUE <math>\geq</math> 80%</li> </ol> </li> <li>3. Efficiency if not equipped with ECM:               <ol style="list-style-type: none"> <li>a. AFUE <math>\geq</math> 90%</li> </ol> </li> </ol>	20

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PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
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 certified</li> <li>Efficiency:               <ol style="list-style-type: none"> <li>SEER <math>\geq</math> 15</li> </ol> </li> </ol>	15
	Mini-Split Heat Pump	<ol style="list-style-type: none"> <li>Product must be AHRI certified</li> <li>Efficiency:               <ol style="list-style-type: none"> <li>SEER <math>\geq</math> 15</li> <li>HSPF <math>\geq</math> 8.5</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>	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 <math>\geq</math> 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 <math>\geq</math> 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 <math>\geq</math> 3.8</li> </ol> </li> <li>Multi-Speed Pump Efficiency:               <ol style="list-style-type: none"> <li>EF <math>\geq</math> 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 <math>\geq</math> 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 <math>\geq</math> 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 <math>\geq</math> 0.90</li> </ol> </li> </ol>	10

# California HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Water Heating	Hot Water Delivery System	<ol style="list-style-type: none"> <li>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>Dedicated Recirculation Line</li> <li>Whole House Manifold System</li> <li>Demand-initiated Recirculating System</li> <li>Core Plumbing System</li> </ol> </li> </ol>	25
Windows, Doors, and Skylights	Door	<ol style="list-style-type: none"> <li>Product must be NFRC Certified</li> <li>Opaque (No Glass) Efficiency:               <ol style="list-style-type: none"> <li>U-Factor <math>\leq 0.17</math></li> <li>SHGC = Any</li> </ol> </li> <li><math>\leq 1/2</math>-Lite (Some Glass) Efficiency:               <ol style="list-style-type: none"> <li>U-Factor <math>\leq 0.25</math></li> <li>SHGC <math>\leq 0.25</math></li> </ol> </li> <li><math>&gt; 1/2</math>-Lite (Mostly Glass) Efficiency:               <ol style="list-style-type: none"> <li>U-Factor <math>\leq 0.30</math></li> <li>SHGC <math>\leq 0.25</math></li> </ol> </li> </ol>	25
	Exterior Window Shading Device	<ol style="list-style-type: none"> <li>Product must shade to at least one window or door</li> <li>Product must be one of the following styles:               <ol style="list-style-type: none"> <li>Patio Cover</li> <li>Fixed Awning</li> <li>Operable Awning</li> <li>Operable Shutter</li> <li>Solar Screen</li> </ol> </li> <li>Product is <u>NOT</u> eligible to be installed on properties located within LA County or California Building Climate Zones 1, 3-5</li> <li>Other exterior structural products including, but not limited to, sunroom enclosures, exterior decks, balconies, roof overhangs, detached/free-standing arbors, detached/free-standing pergolas, and/or carports are <u>NOT</u> eligible</li> <li>Interior window shading products are <u>NOT</u> eligible</li> </ol>	10

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PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Windows, Doors, and Skylights	Skylights and Tubular Daylighting Device	<ol style="list-style-type: none"> <li>Product must be NFRC Certified</li> <li>Efficiency:               <ol style="list-style-type: none"> <li>U-Factor <math>\leq 0.53</math></li> <li>SHGC <math>\leq 0.28</math></li> </ol> </li> </ol>	20
	Window	<ol style="list-style-type: none"> <li>Product must be NFRC Certified</li> <li>Efficiency:               <ol style="list-style-type: none"> <li>U-Factor <math>\leq 0.30</math></li> <li>SHGC <math>\leq 0.25</math></li> </ol> </li> </ol>	25
	Window Film	<ol style="list-style-type: none"> <li>Product must be NFRC Certified</li> </ol>	10

## Water Efficiency

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Indoor Water Efficiency	Faucet	<ol style="list-style-type: none"> <li>Product must be WaterSense Qualified</li> <li>Flow rate <math>\leq 1.5</math> GPM</li> <li>Must be permanently installed</li> </ol>	15
	Gray Water System	<ol style="list-style-type: none"> <li>System must meet California Plumbing Code, Chapter 16A</li> <li>Eligible system types include:               <ol style="list-style-type: none"> <li>Single Fixture</li> <li>Multi-Fixture Simple (<math>\leq 250</math> GPD)</li> <li>Multi-Fixture Complex (<math>&gt; 250</math> GPD)</li> </ol> </li> </ol>	20
	Showerhead	<ol style="list-style-type: none"> <li>Product must be WaterSense Qualified</li> <li>Flow rate <math>\leq 2.0</math> GPM</li> </ol>	15
	Toilet	<ol style="list-style-type: none"> <li>Product must be WaterSense Qualified</li> <li>Toilet and urinals fixtures are eligible</li> <li>Flow rate <math>\leq 1.28</math> GPF</li> </ol>	20
Outdoor Water Efficiency	Artificial Turf	<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 10</math> year warranty</li> </ol>	10

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PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
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 <a href="#">Full Specifications</a></li> </ol> </li> </ol>	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>	10
	Weather-Based Irrigation Controller	<ol style="list-style-type: none"> <li>Product must be WaterSense Qualified</li> </ol>	10

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## 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 <a href="#">pre-approved</a> 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</math> 63.5%</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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PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
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. Solar inverters must be listed by the <a href="#">Florida Solar Energy Center (FSEC)</a> 2. Solar systems must be installed per system manual specifications.	20
	Solar Panel	1. Solar panels must be listed by the <a href="#">Florida Solar Energy Center (FSEC)</a> 2. Solar systems must be installed per system manual specifications.	25
Solar Thermal	Solar Pool Heater	1. Product must have the Solar Thermal Certification by FSEC or OG-100 Collector Certification by the Solar Rating and Certification Corporation (SRCC)	15
	Solar Water Heater	1. System must have the Solar Thermal Certification by FSEC or 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 $\geq 30$ 2. Product should be installed following ENERGY STAR guidelines	25
	Cool Roof – Prescriptive	1. Low-Slope Roof ( $\leq 2:12$ ) Efficiency Rating: Aged (3 yrs.) Solar Reflectance $\geq 0.5$ 2. Steep-Slope Roof ( $> 2:12$ ) Efficiency Rating: Aged Solar Reflectance $\geq 0.15$	20

# Florida HERO Program Residential Eligible Product List

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 between the top of the roof deck and the bottom of the roofing product</li> <li>b. Insulate attic floor or above roof deck</li> <li>c. Seal &amp; Insulate attic HVAC duct work</li> <li>d. Install an eligible radiant barrier</li> <li>e. Other roof construction to meet solar reflectance and emittance requirements</li> </ol> </li> </ol>	20
	Heat Reflective/Cool Wall Coverings	<ol style="list-style-type: none"> <li>1. Product must be 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> </ol>	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

# Florida HERO Program Residential Eligible Product List

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 13</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 Certified</li> <li>Split System Efficiency:                             <ol style="list-style-type: none"> <li>SEER <math>\geq 14</math></li> <li>HSPF <math>\geq 8.2</math></li> </ol> </li> <li>Package System Efficiency:                             <ol style="list-style-type: none"> <li>SEER <math>\geq 14</math></li> <li>HSPF <math>\geq 8.0</math></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

# Florida HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Heating, Ventilation, and Air Conditioning (HVAC)	Biomass / Wood Stove	1. Product must be certified and listed on the EPA Certified Wood Stoves list	15
	Boiler	1. Product must be AHRI Certified 2. Efficiency: a. Oil: AFUE $\geq$ 87% b. Gas: AFUE $\geq$ 90%	25
	Ceiling Fan	1. Product must be ENERGY STAR Certified	10
	Central Air Conditioner	1. Product must be AHRI Certified 2. Split System Efficiency: a. SEER $\geq$ 14 3. Package System Efficiency: a. SEER $\geq$ 14	15
	Duct Replacement	1. Duct system leakage: $\leq$ 4 cfm per 100 square feet 2. Duct Insulation R-Value $\geq$ 6	25
	Duct Sealing	1. Ducts should be sealed with UL-181 listed duct sealing materials (mastic, foil tape, duct board, etc.)	20
	Furnace	1. Product must be AHRI Certified 2. Efficiency if equipped with ECM: a. AFUE $\geq$ 85% 3. Efficiency if not equipped with ECM: a. Oil: AFUE $\geq$ 85% b. Gas: AFUE $\geq$ 90%	20

# Florida HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
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> 17.1</li> <li>COP <math>\geq</math> 3.6</li> </ol> </li> <li>Open Loop Water-to-Air Efficiency:               <ol style="list-style-type: none"> <li>EER <math>\geq</math> 21.1</li> <li>COP <math>\geq</math> 4.1</li> </ol> </li> <li>Closed Loop Water-to-Water Efficiency:               <ol style="list-style-type: none"> <li>EER <math>\geq</math> 16.1</li> <li>COP <math>\geq</math> 3.1</li> </ol> </li> <li>Open Loop Water-to-Water Efficiency:               <ol style="list-style-type: none"> <li>EER <math>\geq</math> 20.1</li> <li>COP <math>\geq</math> 3.5</li> </ol> </li> <li>DGX Efficiency:               <ol style="list-style-type: none"> <li>EER <math>\geq</math> 16.0</li> <li>COP <math>\geq</math> 3.6</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 (Oil: AFUE <math>\geq</math> 87%, Gas: AFUE <math>\geq</math> 90%)</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 certified</li> <li>Efficiency: SEER <math>\geq</math> 14</li> </ol>	15
	Mini-Split Heat Pump	<ol style="list-style-type: none"> <li>Product must be AHRI certified</li> <li>Efficiency:               <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

# Florida HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Heating, Ventilation, and Cooling (HVAC)	Ventilation Fan	1. Product must be ENERGY STAR Certified	10
	Whole House Fan	1. Product must be listed in California Energy Commission Appliance Efficiency Database	20
Lighting	Lighting Control	1. Product must be listed in the California Energy Commission Appliance Efficiency Database. 2. Eligible control types include: a. Automatic Time-Switch b. Daylight/Photo-Sensor c. Dimmer d. Occupant/Motion/Vacancy Sensor	20
	Lighting Fixture	1. Product must be ENERGY STAR Certified	20
	Automatic Pool Cover	1. Product must be UL certified as meeting ASTM F1346 Standard Performance Specification	10
Pool Equipment	Electric Heat Pump Pool Heater	1. Product must be listed in California Energy Commission Appliance Efficiency Database 2. COP $\geq$ 4.0	10
	Gas Pool Heater	1. Product must be listed in California Energy Commission Appliance Efficiency Database 2. Thermal Efficiency $\geq$ 82%	10
	Pool Pump	1. Product must be ENERGY STAR Certified 2. Single Speed Pump Efficiency: a. EF $\geq$ 3.8 3. Multi-Speed Pump Efficiency: a. EF $\geq$ 3.8 for most efficient speed	10
	Electric Heat Pump Storage Water Heater	1. Product must be ENERGY STAR Certified 2. Efficiency: a. EF $\geq$ 2.0	10

# Florida HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Water Heating	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 <math>\geq</math> 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 <math>\geq</math> 0.90</li> </ol> </li> </ol>	10
	Hot Water Delivery System	<ol style="list-style-type: none"> <li>System meets the <a href="#">EPA WaterSense Guide</a> for Efficient Hot Water Delivery Systems definition for one of the following water delivery options:               <ol style="list-style-type: none"> <li>Dedicated Recirculation Line</li> <li>Whole House Manifold System</li> <li>Demand-initiated Recirculating System</li> <li>Core Plumbing System</li> </ol> </li> </ol>	25
Windows, Doors, and Skylights	Door	<ol style="list-style-type: none"> <li>Product must have a Florida Building Code or Miami-Dade Product Approval Number</li> <li>Product must meet energy efficiency requirements stated in Florida Building Code</li> <li>Climate Zone 1               <ol style="list-style-type: none"> <li>U-Factor <math>\leq</math> 0.65</li> <li>SHGC <math>\leq</math> 0.25, not required if no glass</li> </ol> </li> <li>Climate Zone 2               <ol style="list-style-type: none"> <li>U-Factor <math>\leq</math> 0.40</li> <li>SHGC <math>\leq</math> 0.25, not required if no glass</li> </ol> </li> </ol>	20

# Florida HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Windows, Doors, and Skylights	Exterior Window Shading Device	<ol style="list-style-type: none"> <li>Product must shade to at least one window or door</li> <li>Product must be one of the following styles:               <ol style="list-style-type: none"> <li>Patio Cover</li> <li>Fixed Awning</li> <li>Operable Awning</li> <li>Operable Shutter</li> <li>Solar Screen</li> </ol> </li> <li>Other exterior structural products including, but not limited to, sunroom enclosures, exterior decks, balconies, roof overhangs, detached/free-standing arbors, detached/free-standing pergolas, and/or carports are <u>NOT</u> eligible</li> </ol>	10
	Skylights and Tubular Daylighting Device	<ol style="list-style-type: none"> <li>Product must have a Florida Building Code or Miami-Dade Product Approval Number</li> <li>Product must meet energy efficiency requirements stated in Florida Building Code</li> <li>Climate Zone 1               <ol style="list-style-type: none"> <li>U-Factor <math>\leq 0.75</math></li> <li>SHGC <math>\leq 0.30</math></li> </ol> </li> <li>Climate Zone 2               <ol style="list-style-type: none"> <li>U-Factor <math>\leq 0.65</math></li> <li>SHGC <math>\leq 0.30</math></li> </ol> </li> </ol>	15
	Window	<ol style="list-style-type: none"> <li>Product must have a Florida Building Code or Miami-Dade Product Approval Number</li> <li>Product must meet energy efficiency requirements stated in Florida Building Code</li> <li>Climate Zone 1               <ol style="list-style-type: none"> <li>U-Factor <math>\leq 0.65</math></li> <li>SHGC <math>\leq 0.25</math></li> </ol> </li> <li>Climate Zone 2               <ol style="list-style-type: none"> <li>U-Factor <math>\leq 0.40</math></li> <li>SHGC <math>\leq 0.25</math></li> </ol> </li> </ol>	20
	Window Film	<ol style="list-style-type: none"> <li>Product must be NFRC Certified</li> </ol>	10

# Florida HERO Program Residential Eligible Product List

## Wind Resistance

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Wind Resistance	Door	<ol style="list-style-type: none"> <li>1. Product must have a Florida Building Code or Miami-Dade Product Approval Number</li> <li>2. Product must meet impact resistant requirements stated in Florida Building Code</li> <li>3. Product must have been verified to meet one of the acceptable set of standards for opening protection                             <ol style="list-style-type: none"> <li>a. TAS 201, TAS 202, TAS203</li> <li>b. ASTM E 1886, ASTM E1996</li> <li>c. Other equivalentstandards</li> </ol> </li> </ol>	20
	Garage Door	<ol style="list-style-type: none"> <li>1. Product must have a Florida Building Code or Miami-Dade Product Approval Number</li> <li>2. Product must meet impact resistant requirements stated in Florida Building Code</li> <li>3. Product must meet one of the referenced standards for opening protection                             <ol style="list-style-type: none"> <li>a. TAS 201, TAS 202, TAS203</li> <li>b. ASTM E 1886, ASTM E1996</li> <li>c. Other equivalentstandards</li> </ol> </li> </ol>	20

# Florida HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Wind Resistance	Roofing	<ol style="list-style-type: none"> <li>1. Product must have a Florida Building Code or Miami-Dade Product Approval Number</li> <li>2. Product must meet wind resistant requirements stated in Florida Building Code</li> <li>3. Product must be manufactured and installed to withstand at a minimum of 110 mph ultimate design wind speed</li> </ol>	20
	Roof-to-Wall Connections	<ol style="list-style-type: none"> <li>1. Product must meet requirements stated in Florida Building Code</li> </ol>	20
	Roof-Deck Attachments	<ol style="list-style-type: none"> <li>1. Product must meet requirements stated in Florida Building Code</li> </ol>	20
	Secondary Water Barrier	<ol style="list-style-type: none"> <li>1. Product must meet requirements stated in Florida Building Code</li> </ol>	20
	Skylights and Tubular Daylighting Device	<ol style="list-style-type: none"> <li>1. Product must have a Florida Building Code or Miami-Dade Product Approval Number</li> <li>2. Product must meet impact resistant requirements stated in Florida Building Code</li> <li>3. Product must meet one of the referenced standards for opening protection               <ol style="list-style-type: none"> <li>a. TAS 201, TAS 202, TAS 203</li> <li>b. ASTM E 1886, ASTM E 1996</li> <li>c. Other equivalent standards</li> </ol> </li> </ol>	15

# Florida HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Wind Resistance	Storm Shutter	<ol style="list-style-type: none"> <li>1. Product must have a Florida Building Code or Miami-Dade Product Approval Number</li> <li>2. Product must meet impact resistant requirements stated in Florida Building Code</li> <li>3. Product must meet one of the referenced standards for opening protection                             <ol style="list-style-type: none"> <li>a. TAS 201, TAS 202, TAS203</li> <li>b. ASTM E 1886, ASTM E1996</li> <li>c. Other equivalentstandards</li> </ol> </li> <li>4. Impact protection systems and flexible wind abatement systems are eligible under Storm Shutters.</li> </ol>	20
	Window	<ol style="list-style-type: none"> <li>1. Product must have a Florida Building Code or Miami-Dade Product Approval Number</li> <li>2. Product must meet impact resistant requirements stated in Florida Building Code</li> <li>3. Product must meet one of the referenced standards for opening protection                             <ol style="list-style-type: none"> <li>a. TAS 201, TAS 202, TAS203</li> <li>b. ASTM E 1886, ASTM E1996</li> <li>c. Other equivalentstandards</li> </ol> </li> </ol>	20

# Missouri 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 <a href="#">pre-approved</a> 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

# Missouri HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
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	20
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	20
	Cool Roof - Prescriptive	1. Product must be listed in the CRRC and/or ENERGY STAR product directories 2. Low-Slope Roof ( $\leq 2:12$ ) Efficiency Rating: a. Aged (3 yrs.) Solar Reflectance $\geq 0.5$ 3. Steep-Slope Roof ( $> 2:12$ ) Efficiency Rating: a. Aged Solar Reflectance $\geq 0.15$	20

# Missouri HERO Program Residential Eligible Product List

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. 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>d. Insulate above roof deck to R-value <math>\geq 4</math></li> <li>e. Install roof construction with thermal mass with a weight of at least 25 lb/ft<sup>2</sup></li> </ol> </li> </ol>	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>	20
	Radiant Barrier	<ol style="list-style-type: none"> <li>1. 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>a. Reflectivity <math>\geq 0.9</math></li> <li>b. Emittance <math>\leq 0.1</math></li> </ol> </li> <li>2. 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>a. Emittance <math>\leq 0.25</math></li> </ol> </li> </ol>	20
	Under Floor Insulation	<ol style="list-style-type: none"> <li>1. R-value <math>\geq 25</math></li> <li>2. Product should be installed following ENERGY STAR guidelines</li> </ol>	20
	Wall Insulation	<ol style="list-style-type: none"> <li>1. R-value <math>\geq 13</math></li> <li>2. Product should be installed following ENERGY STAR guidelines</li> </ol>	20

# Missouri HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Heating, Ventilation, and Air Conditioning (HVAC)	Air Source Heat Pump	<ol style="list-style-type: none"> <li>Product must be AHRI Certified</li> <li>Split System Efficiency:               <ol style="list-style-type: none"> <li>SEER <math>\geq</math> 15</li> <li>EER <math>\geq</math> 12.5</li> <li>HSPF <math>\geq</math> 8.5</li> </ol> </li> <li>Package System Efficiency:               <ol style="list-style-type: none"> <li>SEER <math>\geq</math> 15</li> <li>EER <math>\geq</math> 12</li> <li>HSPF <math>\geq</math> 8.2</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 Certified</li> <li>Efficiency:               <ol style="list-style-type: none"> <li>AFUE <math>\geq</math> 85%</li> </ol> </li> </ol>	20
	Ceiling Fan	<ol style="list-style-type: none"> <li>Product must be ENERGY STAR Certified</li> </ol>	10
	Central Air Conditioner	<ol style="list-style-type: none"> <li>Product must be AHRI Certified</li> <li>Split System Efficiency:               <ol style="list-style-type: none"> <li>SEER <math>\geq</math> 15</li> <li>EER <math>\geq</math> 12.5</li> </ol> </li> <li>Package System Efficiency:               <ol style="list-style-type: none"> <li>SEER <math>\geq</math> 15</li> <li>EER <math>\geq</math> 12</li> </ol> </li> </ol>	15
	Duct Replacement	<ol style="list-style-type: none"> <li>Duct system leakage:               <ol style="list-style-type: none"> <li>Partial Replacement: <math>\leq</math> 15% total system nominal flow</li> <li>Full Replacement: <math>\leq</math> 6% total system nominal flow</li> </ol> </li> <li>Duct Insulation R-Value <math>\geq</math> 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, etc.)</li> </ol>	20

# Missouri HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Heating, Ventilation, and Air Conditioning (HVAC)	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 Certified</li> <li>Efficiency if equipped with ECM:               <ol style="list-style-type: none"> <li>AFUE <math>\geq</math> 85%</li> </ol> </li> <li>Efficiency if not equipped with ECM:               <ol style="list-style-type: none"> <li>AFUE <math>\geq</math> 95%</li> </ol> </li> </ol>	20
	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 certified</li> <li>Efficiency:               <ol style="list-style-type: none"> <li>SEER <math>\geq</math> 15</li> </ol> </li> </ol>	15

# Missouri HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Heating, Ventilation, and Air Conditioning (HVAC)	Mini-Split Heat Pump	<ol style="list-style-type: none"> <li>Product must be AHRI certified</li> <li>Efficiency:                             <ol style="list-style-type: none"> <li>SEER <math>\geq</math> 15</li> <li>HSPF <math>\geq</math> 8.5</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
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>	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 <math>\geq</math> 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 <math>\geq</math> 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 <math>\geq</math> 3.8</li> </ol> </li> <li>Multi-Speed Pump Efficiency:                             <ol style="list-style-type: none"> <li>EF <math>\geq</math> 3.8 for most efficient speed</li> </ol> </li> </ol>	10

# Missouri HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
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 <math>\geq</math> 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 <math>\geq</math> 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 <math>\geq</math> 0.90</li> </ol> </li> </ol>	10
	Hot Water Delivery System	<ol style="list-style-type: none"> <li>System meets 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>Dedicated Recirculation Line</li> <li>Whole House Manifold System</li> <li>Demand-initiated Recirculating System</li> <li>Core Plumbing System</li> </ol> </li> </ol>	15
Windows, Doors, and Skylights	Door	<ol style="list-style-type: none"> <li>Product must be NFRC Certified</li> <li>Opaque (No Glass) Efficiency:               <ol style="list-style-type: none"> <li>U-Factor <math>\leq</math> 0.17</li> <li>SHGC = Any</li> </ol> </li> <li><math>\leq</math> 1/2-Lite (Some Glass) Efficiency:               <ol style="list-style-type: none"> <li>U-Factor <math>\leq</math> 0.25</li> <li>SHGC <math>\leq</math> 0.25</li> </ol> </li> <li><math>&gt;</math> 1/2-Lite (Mostly Glass) Efficiency:               <ol style="list-style-type: none"> <li>U-Factor <math>\leq</math> 0.30</li> <li>SHGC <math>\leq</math> 0.40</li> </ol> </li> </ol>	20

# Missouri HERO Program Residential Eligible Product List

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Windows, Doors, and Skylights	Exterior Window Shading Device	<ol style="list-style-type: none"> <li>Product must shade to at least one window or door</li> <li>Product must be one of the following styles:               <ol style="list-style-type: none"> <li>Patio Cover</li> <li>Fixed Awning</li> <li>Operable Awning</li> <li>Operable Shutter</li> <li>Solar Screen</li> </ol> </li> <li>Other exterior structural products including, but not limited to, sunroom enclosures, exterior decks, balconies, roof overhangs, detached/free-standing arbors, detached/free-standing pergolas, and/or carports are <u>NOT</u> eligible</li> <li>Interior window shading products are <u>NOT</u> eligible</li> </ol>	10
	Skylights and Tubular Daylighting Device	<ol style="list-style-type: none"> <li>Product must be NFRC Certified</li> <li>Efficiency:               <ol style="list-style-type: none"> <li>U-Factor <math>\leq 0.53</math></li> <li>SHGC <math>\leq 0.35</math></li> </ol> </li> </ol>	20
	Window	<ol style="list-style-type: none"> <li>Product must be NFRC Certified</li> <li>Efficiency:               <ol style="list-style-type: none"> <li>U-Factor <math>\leq 0.30</math></li> <li>SHGC <math>\leq 0.40</math></li> </ol> </li> </ol>	20
	Window Film	<ol style="list-style-type: none"> <li>Product must be NFRC Certified</li> </ol>	10