

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 PRODUCTS

PRODUCT CATEGORY	PRODUCT TYPE	ELIGIBILITY SPECIFICATIONS	MAXIMUM TERM (YEARS)
Alternative Energy	Advanced Energy Storage System	<ol style="list-style-type: none">1. System must be pre-approved and listed in the HERO Eligible Product Database2. System must have obtained certification from a nationally recognized testing laboratory for one of the acceptable standards:<ol style="list-style-type: none">a. UL 1973b. UL Subject 9540c. IEC 62842-2d. IEC 62109e. UL 1741f. Other equivalent standard3. System must maintain roundtrip efficiency $\geq 63.5\%$4. System must carry a minimum 10-year manufacturer warranty	10
	Electric Vehicle Charging Station	<ol style="list-style-type: none">1. Product must be certified as meeting the Underwriters Laboratory Subject 2594 Standard Testing for Charging Stations2. Product must be a Level 2 charger with SAE J1772 standard charging plug	10
	Fuel Cell Power System	<ol style="list-style-type: none">1. System must be certified as meeting the ANSI/CSA America FC1 standard	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	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 PRODUCTS

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 ≥ 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 ≥ 0.5 3. Steep-Slope Roof ($> 2:12$) Efficiency Rating: a. Aged Solar Reflectance ≥ 0.15	20

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Building Envelope	Cool Roof - Performance	<ol style="list-style-type: none"> 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"> a. Provide an air-space of at least 1" between the top of the roof deck and the bottom of the roofing product b. Insulate attic floor to R-value ≥ 38 c. Install an eligible radiant barrier (Reflectivity ≥ 0.9 and Emittance ≤ 0.1) with reflective side facing air space d. Insulate above roof deck to R-value ≥ 4 e. Install roof construction with thermal mass with a weight of at least 25 lb/ft² 	20
	Insulated Siding	<ol style="list-style-type: none"> 1. R-value ≥ 2 2. Certified as meeting ASTM D7793 standard and listed by Vinyl Siding Institute or certified as meeting an alternative equivalent standard 3. Primary application surface must be exterior walls of conditioned buildings 4. Trim, soffit, and/or fascia may be included in work scope as secondary items, as applicable 	20
	Radiant Barrier	<ol style="list-style-type: none"> 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"> a. Reflectivity ≥ 0.9 b. Emittance ≤ 0.1 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"> a. Emittance ≤ 0.25 	20
	Under Floor Insulation	<ol style="list-style-type: none"> 1. R-value ≥ 25 2. Product should be installed following ENERGY STAR guidelines 	20
	Wall Insulation	<ol style="list-style-type: none"> 1. R-value ≥ 13 2. Product should be installed following ENERGY STAR guidelines 	20

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Heating, Ventilation, and Air Conditioning (HVAC)	Air Source Heat Pump	<ol style="list-style-type: none"> Product must be AHRI Certified Split System Efficiency: <ol style="list-style-type: none"> SEER \geq 15 EER \geq 12.5 HSPF \geq 8.5 Package System Efficiency: <ol style="list-style-type: none"> SEER \geq 15 EER \geq 12 HSPF \geq 8.2 	15
	Attic Fan	<ol style="list-style-type: none"> Product must be equipped with a thermostat control 	15
	Biomass / Wood Stove	<ol style="list-style-type: none"> Product must be certified and listed on the EPA Certified Wood Stoves list 	15
	Boiler	<ol style="list-style-type: none"> Product must be AHRI Certified Efficiency: <ol style="list-style-type: none"> AFUE \geq 85% 	20
	Ceiling Fan	<ol style="list-style-type: none"> Product must be ENERGY STAR Certified 	10
	Central Air Conditioner	<ol style="list-style-type: none"> Product must be AHRI Certified Split System Efficiency: <ol style="list-style-type: none"> SEER \geq 15 EER \geq 12.5 Package System Efficiency: <ol style="list-style-type: none"> SEER \geq 15 EER \geq 12 	15
	Duct Replacement	<ol style="list-style-type: none"> Duct system leakage: <ol style="list-style-type: none"> Partial Replacement: \leq 15% total system nominal flow Full Replacement: \leq 6% total system nominal flow Duct Insulation R-Value \geq 6 	20
	Duct Sealing	<ol style="list-style-type: none"> Ducts should be sealed with UL-181 listed duct sealing materials (mastic, foil tape, duct board, etc.) 	20

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Heating, Ventilation, and Air Conditioning (HVAC)	Evaporative Cooler	<ol style="list-style-type: none"> Product must be listed in California Energy Commission Appliance Efficiency Database Window installed product is <u>not</u> eligible 	10
	Furnace	<ol style="list-style-type: none"> Product must be AHRI Certified Efficiency if equipped with ECM: <ol style="list-style-type: none"> AFUE \geq 85% Efficiency if not equipped with ECM: <ol style="list-style-type: none"> AFUE \geq 95% 	20
	Geothermal Heat Pump	<ol style="list-style-type: none"> Product must be ENERGY STAR Certified Closed Loop Water-to-Air Efficiency: <ol style="list-style-type: none"> EER \geq 14.1 COP \geq 3.3 Open Loop Water-to-Air Efficiency: <ol style="list-style-type: none"> EER \geq 16.2 COP \geq 3.6 Closed Loop Water-to-Water Efficiency: <ol style="list-style-type: none"> EER \geq 15.1 COP \geq 3.0 Open Loop Water-to-Water Efficiency: <ol style="list-style-type: none"> EER \geq 19.1 COP \geq 3.4 DGX Efficiency: <ol style="list-style-type: none"> EER \geq 15.0 COP \geq 3.5 	15
	Heat/Energy Recovery Ventilator	<ol style="list-style-type: none"> Product must be certified by the Home Ventilation Institute (HVI) 	10
	Hydronic Radiant Heating System	<ol style="list-style-type: none"> System must be powered by one of the following high-efficiency heating sources: <ol style="list-style-type: none"> Boiler (AFUE \geq 85%) Gas Storage Water Heater (EF \geq 0.67) Gas Tankless Water Heater (EF \geq 0.90) Electric Heat Pump Water Heater (EF \geq 2) 	15
	Mini-Split Air Conditioner	<ol style="list-style-type: none"> Product must be AHRI certified Efficiency: <ol style="list-style-type: none"> SEER \geq 15 	15

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Heating, Ventilation, and Air Conditioning (HVAC)	Mini-Split Heat Pump	<ol style="list-style-type: none"> Product must be AHRI certified Efficiency: <ol style="list-style-type: none"> SEER \geq 15 HSPF \geq 8.5 	15
	Ventilation Fan	<ol style="list-style-type: none"> Product must be ENERGY STAR Certified 	10
	Whole House Fan	<ol style="list-style-type: none"> Product must be listed in California Energy Commission Appliance Efficiency Database 	20
Lighting	Lighting Control	<ol style="list-style-type: none"> Product must be listed in the California Energy Commission Appliance Efficiency Database. Eligible control types include: <ol style="list-style-type: none"> Automatic Time-Switch Daylight/Photo- Sensor Dimmer Occupant/Motion/Vacancy Sensor 	20
	Lighting Fixture	<ol style="list-style-type: none"> Product must be ENERGY STAR Certified 	20
Pool Equipment	Automatic Pool Cover	<ol style="list-style-type: none"> Product must be UL certified as meeting ASTM F1346 Standard Performance Specification 	10
	Electric Heat Pump Pool Heater	<ol style="list-style-type: none"> Product must be listed in California Energy Commission Appliance Efficiency Database COP \geq 4.5 	10
	Gas Pool Heater	<ol style="list-style-type: none"> Product must be listed in California Energy Commission Appliance Efficiency Database Thermal Efficiency \geq 83% 	10
	Pool Pump	<ol style="list-style-type: none"> Product must be ENERGY STAR Certified Single Speed Pump Efficiency: <ol style="list-style-type: none"> EF \geq 3.8 Multi-Speed Pump Efficiency: <ol style="list-style-type: none"> EF \geq 3.8 for most efficient speed 	10

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Water Heating	Electric Heat Pump Storage Water Heater	<ol style="list-style-type: none"> Product must be ENERGY STAR Certified Efficiency: <ol style="list-style-type: none"> EF \geq 2.0 	10
	Gas Storage Water Heater	<ol style="list-style-type: none"> Product must be ENERGY STAR Certified Efficiency: <ol style="list-style-type: none"> EF \geq 0.67 	10
	Gas Tankless Water Heater	<ol style="list-style-type: none"> Product must be ENERGY STAR Certified Efficiency: <ol style="list-style-type: none"> EF \geq 0.90 	10
	Hot Water Delivery System	<ol style="list-style-type: none"> 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"> Dedicated Recirculation Line Whole House Manifold System Demand-initiated Recirculating System Core Plumbing System 	15
Windows, Doors, and Skylights	Door	<ol style="list-style-type: none"> Product must be NFRC Certified Opaque (No Glass) Efficiency: <ol style="list-style-type: none"> U-Factor \leq 0.17 SHGC = Any \leq 1/2-Lite (Some Glass) Efficiency: <ol style="list-style-type: none"> U-Factor \leq 0.25 SHGC \leq 0.25 $>$ 1/2-Lite (Mostly Glass) Efficiency: <ol style="list-style-type: none"> U-Factor \leq 0.30 SHGC \leq 0.40 	20

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Windows, Doors, and Skylights	Exterior Window Shading Device	<ol style="list-style-type: none"> Product must shade to at least one window or door Product must be one of the following styles: <ol style="list-style-type: none"> Patio Cover Fixed Awning Operable Awning Operable Shutter Solar Screen 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 Interior window shading products are <u>NOT</u> eligible 	10
	Skylights and Tubular Daylighting Device	<ol style="list-style-type: none"> Product must be NFRC Certified Efficiency: <ol style="list-style-type: none"> U-Factor ≤ 0.53 SHGC ≤ 0.35 	20
	Window	<ol style="list-style-type: none"> Product must be NFRC Certified Efficiency: <ol style="list-style-type: none"> U-Factor ≤ 0.30 SHGC ≤ 0.40 	20
	Window Film	<ol style="list-style-type: none"> Product must be NFRC Certified 	10