

ENERGYSMART and DENVER ENERGY CHALLENGE RESIDENTIAL LOAN ELIGIBLE MEASURES

Contractors!

Please check <https://www.elevationscu.com/energyloans/home-loans> to ensure you are using the most up to date version of the Energy Loans eligible measures and contractor requirements list. New Construction, Remodels and additions must also comply with this list to be eligible for an Elevations Energy Loan.

Category	Measure	Minimum Efficiency / Certification Requirements	Contractor Certification Requirements
Energy Analysis & Monitoring	EnergySmart or Denver Energy Challenge Home Energy Assessment	<i>Note; this is the only measure that can be incurred prior to a loan application, if included with additional measures.</i>	Must be scheduled by ES/DEC program staff.
	Non-ES/DEC Energy Audit-Assessment	<i>Must include at least a blower door and IR test result.</i>	Performed by a Building Performance Institute (BPI) certified energy auditor
	In-home energy monitor	<i>Ex. The Energy Detective, Tendril or other fixed in-home device.</i>	Installed to manufacturer's specs. This may inc a licensed and insured electrician and/or company trained technician.
	Home Energy Rating Index (HERS model)	<i>Home energy rating and modeling</i>	Performed by a RESNET-certified Home Energy Rater
Insulation and Air Sealing	Professionally Applied Air Sealing (No DIY)	<i>Air infiltration levels must be measured by a blower door before & after improvements. Mechanical ventilation must be recommended if air changes / hour are below 0.35 NACH. Performed to at least to local code requirements.</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
	Duct Insulation	<i>R-8 minimum, in unconditioned space only</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
	Duct Repair/Sealing	<i>Must use duct mastic or aluminized tape. Performed to at least local code requirements.</i>	Contractor must be licensed and insured.
	Ceiling/Attic Insulation	<i>R-49 minimum required in open attic; cathedral ceilings will vary with rafter depth. Must perform air sealing in attics prior to adding insulation.</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
	Wall Insulation	<i>For framed walls R19 minimum: fill wall cavity where R19 is not possible. For solid walls such as brick or concrete, exterior rigid insulation must be added to a level of at \geq R-10.</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
	Foundation (Crawl Space or Basement) Insulation & Air Sealing	<i>Crawlspace as outlined in the 2012 IECC. R-15 continuous or R-19 Cavity insulation with a vapor-permeable air barrier over insulation. Crawlspaces must have sealed vapor barrier over dirt crawl space floor and ventilation, per 2012 IRC.</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner

	Sub-Floor or Frame Floor Insulation	<i>R-30 minimum, over unconditioned space only (i.e., cantilevers, floors over unconditioned crawl, over garage, etc.). Fill enclosed floor cavities when R-30 is not possible. As per 2012 IECC.</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
	Perimeter Insulation, Slab-on-Grade foundations	<i>R-10 minimum. Must extend to entire perimeter of any exposed slab(s). As per 2012 IECC.</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
Water Heating	ENERGY STAR Electric Heat Pump	<i>Eligible only if replacing an existing electric storage tank water heater (not elec replacing gas), or if a renewable energy measure exists.</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
	ENERGY STAR Gas Water Heater	<i>Tank min. rating = .67 EF, On-Demand Tankless= .90 EF</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
Space Heating and Cooling Space Heating and Cooling	Gas Boiler Replacement	<i>AFUE ≥ 85%, must be sealed combustion.</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
	Gas Furnace Replacement	<i>AFUE ≥ 95%, must be sealed combustion.</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
	Pellet Stove/ High Efficiency Wood Stove	<i>Must be EPA certified; at least 72% efficient (wood) or 78% efficient (pellet). Only upgrades to a more efficient model; no new installations unless home uses electric heat.</i>	Contractor must be licensed and insured. Necessary building permits are required.
	High Efficiency Fireplace & Fireplace Inserts	<i>Minimum efficiency 75%. Only retrofits of existing fireplaces; no newly installed or constructed fireplaces. EPA Certified.</i>	Contractor must be licensed and insured. Necessary building permits are required.
	Air or Ground Source Heat Pump (inc Mini-Split A/C & heating units)	<i>Air Source: Split systems ≥ 8.5 HSPF/ 15 SEER/12.5 EER. Single systems ≥ 8.2 HSPF/15 SEER/12 EER ENERGY STAR qualified</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
		<i>Ground Source: ENERGY STAR-qualified. Closed loop systems only. Must be 5.5 tons or smaller.</i>	
	Whole House Fan	<i>Fan must have an automated, insulated air sealing mechanism that engages when the fan is off (i.e., doors or damper mechanism, etc). Must have controls (thermostat or timer, multi-speed).</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
	Solar Thermal Space Heating	<i>For use with hydronic (boiler) systems, 20 kW max. size, SRCC rated</i>	Must be NABCEP certified. Contractor must be licensed and insured
Whole House Evaporative Cooler	<i>Must cool the entire house, not just a single room. Must be permanently installed (no portable units)</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner	

	Electric Commutated Motor on a furnace replacement	Documentation via the Original Equipment Manufacturer spec sheet is required	Must be completed by a contractor participating in EnergySmart's Contractor Partnership Program
	ENERGY STAR Central Air Conditioner	<i>For new and replacements:</i> 15 SEER minimum. Requires recycling of existing unit with supporting documentation. <i>Window (single room) units do not qualify</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
	Radiant heating and cooling (floor, wall, and ceiling)	Hydronic radiant systems must be completely powered (or matched in energy use/output) by a heat pump, efficient gas boiler, or solar system. <i>Electric radiant heating systems are not eligible</i>	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
Solar Hot Water	Solar Thermal Water Heating	SRCC rated.	Must be NABCEP certified
	Solar Thermal Re-Commissioning	SRCC rated.	Must be NABCEP certified
Windows, Doors and Skylights	Exterior windows and glass doors	For existing building shell only (no additions or new construction). Windows or doors only. U Value: $\leq .30$, Low-E glass	Contractor must be licensed and insured. Necessary permits must be pulled.
	Insulated Exterior Doors	R-6.5 minimum fiberglass doors only with weather-stripping and threshold. Any glass must be double-paned, Low-E, and tempered.	Contractor must be licensed and insured. Necessary building permits are required.
	Window Restoration	Window restoration projects will be considered on a case-by-case basis, with historic preservation or code requirements when applicable.	Contractor must be licensed and insured. Necessary building permits are required.
	Storm Windows	Meets IECC in combination with the exterior window over which it is installed, for the applicable climate zone. On existing building shell only (no additions or new construction)	Contractor must be licensed and insured. Necessary building permits are required.
	Insulating Window Covers & Awnings	Must consult with an energy advisor and refer to: http://www.efficientwindowcoverings.org/ for a listing of eligible brands and models	DIY Allowed
	Solar Light Tube	ENERGY STAR qualified, U-factor: $\leq .55$	Contractor must be licensed and insured.
Roofing	Metal and Asphalt Shingle Roofing Only	Class A fire resistant, Reflective Shingles/ENERGY STAR Listed. Please see document "Roof reflectance requirements for EM's list" for further guidance. Roofing requests must be reviewed with program manager prior to approval.	Contractor must be licensed and insured.
Solar PV	Rooftop System	Concurrent energy efficiency measures should be encouraged wherever possible. Costs associated with solar leases, PPA's and other financing options are eligible.	Must be NABCEP certified

	Ground Mounted	Concurrent energy efficiency measures should be encouraged wherever possible. Solar Gardens subscriptions are eligible.	Must be NABCEP certified
Biomass	Biomass Heating System	3MMBtu/hour or smaller.	Must be in DEC/ES Referred Contractor Pool OR an Xcel Energy Trade Partner
ENERGY STAR Appliances	ENERGY STAR Clothes Washer	ENERGY STAR models only, but recommend CEE Tier 3 (Modified Energy Factor ≥ 2.40 & Water Factor ≥ 4.0) See Energy Advisor for list.	DIY allowed
	ENERGY STAR Clothes Dryer	ENERGY STAR certified models only. Can be electric or natural gas	DIY allowed
	ENERGY STAR Refrigerator	Requires recycling of existing unit with supporting documentation. Eligible units must be between 10-30 cubic feet. ENERGY STAR models only.	DIY allowed
	ENERGY STAR Freezer	Requires recycling of existing unit with supporting documentation. Eligible units must be between 10-30 cubic feet. ENERGY STAR models only.	DIY allowed
	ENERGY STAR Dishwasher	ENERGY STAR models only, but recommend CEE Tier 1 (≤ 270 kWh/yr & ≤ 3.5 gal/cycle).	DIY allowed
Emerging and Other Clean Energy Technologies	May Be Energy Efficiency or Renewable Energy	All measures not otherwise listed on this list will be reviewed as a proposal by Boulder County and EnergySmart program administrators	TBD
Natural Disaster Remediation	Flood, Fire, and other disasters as defined by Boulder County	Remediation and rebuild must be done in conjunction with at least one other measure from this list, not including "sustainably certified building materials". Remediation/rebuild cost cannot exceed 150% of the value of the installed cost of other eligible measures. For Flood victims, eligible participants must be registered as a Disaster Survivor with the Federal Emergency Management Agency (FEMA). For Wildfire Mitigation Measures, please refer to separate "Boulder County Land Use Wildfire Mitigation Eligible Measures List".	Scope of work to be reviewed by program advisors prior to approval

Merged LLR 1 & 2 as of 4/8/2015