



Colorado Model Electric and Solar Ready Code (CMESRC) Plan Review – Residential Submittal Checklist

Electric Ready Requirements

- Service Panel Capacity:** The main electrical service panel must have enough reserved physical space and capacity to support the future electrical appliances of all *combustion equipment* per RE302.2.
- Electrical Connection:** All *combustion equipment* shall have an electrical circuit installed and size appropriately per the National Electrical Code (NEC) for an all-electric equivalent and either terminated on a receptacle or made safe in a junction box, or an NEC approved raceway system that is sized appropriately for the conductors that would be needed for an all-electric equivalent for a future installation.
- Labeling:** The reserved circuit breaker spaces and the electrical panel directory must be clearly labeled for their intended future use.

Solar Ready Requirements

- Solar-Ready Zone Areas:** A clear, unobstructed area must be identified on the roof that is at least 300 square feet. This zone must be at least 5 feet wide in any dimension and free from obstructions like vents, chimneys, or equipment and exclusive of pathways, setbacks, and emergency egress as specified by R329 of the International Residential Code (IRC). (Must be depicted, with orientation, on the construction documents with roof layout unless one of the exceptions is met per Chapter 4 of the CMESRC)
- Interconnection Pathway:** The plans must show at least one potential pathway (e.g., a conduit to an accessible attic) for wiring to run from the solar-ready zone to the main electrical service panel. This pathway must be labeled as “Potential Pathway.”

- Service Panel Capacity:** The main electrical service panel must have a reserved, labeled space for a dual-pole circuit breaker "For Future Solar Electric."

Electric Vehicle (EV) Ready Requirements

- EV Ready Space:** One EV ready space must be provided for each dwelling unit with a dedicated garage or designated parking space.
- Dedicated Circuit:** A dedicated branch circuit with a minimum circuit capacity of 40 amps (8.3kVA) must be installed
- Receptacle/Conduit:** This circuit must terminate at a receptacle or a designated termination point within 3 feet of the EV-ready space, unless hard-wired electric vehicle supply equipment is installed.
- Labeling:** The electrical panel and all outlets or enclosures must be clearly marked "For future electric vehicle supply equipment."

***All electrical items shall comply with the currently adopted version of the NEC.**

****Unless noted otherwise, the items on this checklist can be depicted on the plans with a note acknowledging the requirement will be met.**