



# 2021 IECC Amendments Fact Sheet

## What are code amendments?

Code amendments refer to added code requirements that go above and beyond the base energy code, which in the Town of Superior is the 2021 International Energy Conservation Code (IECC).

## Why has the Town adopted these amendments?

The Town Board of Trustees adopted the Sustainability Action Plan in January 2022. This plan establishes ambitious goals to improve building efficiency and decarbonize buildings in Superior. Energy codes are an effective way to ensure reductions in energy use and greenhouse gas emissions, while improving the health, safety, comfortability and durability of homes in Superior.

## Who has to meet the requirements of the code amendments?

Beginning March 28, 2022, all new commercial and residential development in the Town of Superior must meet the requirements of the code amendments outlined on this document.

Additionally, residential properties that were destroyed in the Marshall Fire and are no longer owned by the record owner(s) of the residential property as of December 30, 2021 must meet the requirements of the 2021 IECC and the adopted amendments.

## What are the Town of Superior code amendments?

The Town has adopted appendices defining **solar-ready** and **EV-ready requirements**. Additionally, language has been integrated into the code language that establishes **electric-preferred requirements** that allows for builders to select between one of three options.

## Resources

[Colorado Code Helpline](#): Free helpline to answer any of your building and energy code questions!

[Code Adoption Toolkit](#): Resource that details the cost implications of updating to new codes, the benefits, how to troubleshoot and navigate compliance pathways, links to recorded training webinars, and additional resources.

## Solar Readiness

The purpose of Appendices RB and CB is to encourage the installation of renewable energy systems by preparing buildings for the future installation of solar energy equipment, piping and wiring.

### *Appendix RB (Residential)*

The following is required and must be shown on plans:

- A section or sections of the roof or building overhang designated and reserved for the future installation of a solar photovoltaic or solar thermal system
- Adequate roof structural capacity
- Space on the electrical panel, labeled "For future solar electric"

### **Additional consideration (not required by code):**

Orient roofs to face south and west to maximize future solar output, allowing homeowners to achieve the highest electric bill savings and quickest payback period.

### **View the entire Appendix RB adopted by reference:**

<https://codes.iccsafe.org/content/IECC2021P1/appendix-rb-solar-ready-provisions-detached-one-and-two-family-dwellings-and-townhouses>

### *Appendix CB (Commercial)*

The following is required and must be shown on plans:

- Not less than 40% of roof area minus skylights, occupied roofs, green roofs, and IFC required setbacks reserved for future solar, free from obstructions
- Additional 5 psf deadload included in design
- Pathway for conduit from Solar Ready Zone to panel, and storage or hot water system
- Electrical energy storage system ready area
- Electrical panel space "For Future Solar Electric and Storage"
- Certificate posting this information near the panel

### **View the entire Appendix CB adopted by reference:**

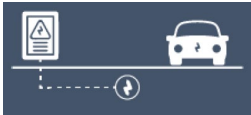
<https://codes.iccsafe.org/content/IECC2021P1/appendix-cb-solar-ready-zone-commercial>

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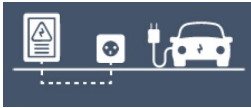
## Electric Vehicle (EV) Readiness

The purpose of Appendices RD and CD is to advance installation of EV infrastructure. Including these measures during initial construction substantially reduces the costs and difficulty of installing EV infrastructure at a later date.

### Types of EV Spaces



**EV Capable:** Electrical panel capacity + branch circuit + raceway



**EV Ready:** EV Capable + 240-volt outlet



**EVSE Installed:** Install a minimum number of Level 2 charging stations

### Appendix RD (Residential)

**One- and two-family dwellings and townhouses** require one EV-ready space for each dwelling unit.

**Residential multi-family dwellings (R-2), 3 stories or less with 1 or more parking spaces** require 25% of spaces to be EV Ready; 50% of spaces to be EV Capable; and 25% of Spaces to be EV Supply Equipment (EVSE) Installed.

### Appendix CD (Commercial)

**New commercial construction with 1 or more parking spaces and major commercial alterations** require 20% of spaces to be EV Ready; 20% of spaces to be EV Capable; and 10% of Spaces to be EV Supply Equipment (EVSE) Installed.

**New commercial multi-family (R-2), 4 stories or greater with 1 or more parking spaces** requires 25% of spaces to be EV Ready; 50% of spaces to be EV Capable; and 25% of Spaces to be EV Supply Equipment (EVSE) Installed.

View pages 6-11 of the [adopted ordinance for full details.](#)

## Electric-Preferred

Electric-preferred codes require extra efficiency measures for new construction with natural gas.

### Residential

Residential buildings **shall be all-electric** buildings unless:

- High-efficiency gas equipment is used and the additional electric infrastructure requirements are met

**OR**

- An additional efficiency package from R408 is included and the additional electric infrastructure requirements are met.

### Commercial

Unless built all-electric, all new combustion equipment shall comply with the more efficient HVAC equipment performance of [Sections C406.2, C406.2.3 and C406.2.4](#) in addition to the additional electric infrastructure requirements.

### Additional Electric Infrastructure Requirements

Combustion equipment shall be provided with conduit that is continuous between a junction box located within 3 feet (914 mm) of the appliance or equipment and an electrical panel. The junction box, conduit and bus bar in the electrical panel shall be rated and sized to accommodate a branch circuit with sufficient capacity for an equivalent electric appliance, equipment or end use with an equivalent equipment capacity. The electrical junction box and electrical panel shall have labels stating: "For future electric equipment."

View pages 2-6 of the [adopted ordinance for full details.](#)

For energy code related questions in the Town of Superior, please contact [superiorinspections@safebuilt.com](mailto:superiorinspections@safebuilt.com)