

# Local Code Adoptions and Electrification

Presented for EEBC by Shaunna Mozingo, President  
Mozingo Code Group LLC

# Alignment with New Colorado State Law (HB22-1362)

- ▶ Local jurisdictions must adopt at least 2021 IECC + EV-ready, PV-ready, and electric-ready when updating other codes (Jul 1, 2023-Jul 1, 2026).
- ▶ Local jurisdictions must adopt at least low-energy and carbon code when updating other codes (after Jul 1, 2026)
- ▶ Energy Code Advisory Board will select model code language.
- ▶ Code Cohort amendments complies



HOUSE BILL 22-1362

BY REPRESENTATIVE(S) Burnett and Valdez A., Amabile, Bacon, Benavidez, Bossenacker, Cutter, Froelich, Hooton, Jodeh, Kennedy, Kipp, Lindsay, Luntine, McCormick, Michaelson Jenet, Sirota, Titone, Woodrow; also SENATOR(S) Hansen and Winter, Jaquez Lewis, Moreno, Priola.

CONCERNING THE REDUCTION OF BUILDING GREENHOUSE GAS EMISSIONS, AND, IN CONNECTION THEREWITH, REQUIRING THE DIRECTOR OF THE COLORADO ENERGY OFFICE AND THE EXECUTIVE DIRECTOR OF THE DEPARTMENT OF LOCAL AFFAIRS TO APPOINT AN ENERGY CODE BOARD THAT DEVELOPS TWO MODEL CODES, REQUIRING LOCAL GOVERNMENTS AND CERTAIN STATE AGENCIES TO ADOPT AND ENFORCE CODES THAT ARE CONSISTENT WITH THE MODEL CODES DEVELOPED BY THE ENERGY CODE BOARD, CREATING THE BUILDING ELECTRIFICATION FOR PUBLIC BUILDINGS GRANT PROGRAM, CREATING THE HIGH-EFFICIENCY ELECTRIC HEATING AND APPLIANCES GRANT PROGRAM, AND ESTABLISHING THE CLEAN AIR BUILDING INVESTMENTS FUND.

*Be it enacted by the General Assembly of the State of Colorado:*

**SECTION 1.** In Colorado Revised Statutes, add part 4 to article 38.5 of title 24 as follows:

**Final State Model Electric Ready and Solar Ready Code Package:**

<https://energyoffice.colorado.gov/climate-energy/energy-policy/building-energy-codes/energy-code-board>

# Eagle County Climate Action Collaborative



An example of codes in action to meet state requirements...

# Participating Cohort Communities

- Town of Avon
- Town of Basalt (observing)
- Town of Eagle
- Eagle County
- Town of Gypsum (observing)
- Town of Minturn
- Town of Red Cliff (newly joined)
- Town of Vail

# Facilitation and Code Expert Team



**LOTUS**  
Engineering & Sustainability

CLIMATE  
**ACTION**  
COLLABORATIVE



**SWEEP**  
SOUTHWEST ENERGY EFFICIENCY PROJECT

THE *Mozingo* CODE  
GROUP  
LLC

Funded by:



**COLORADO**  
Energy Office

# Eagle County Climate Action Plan



## BUILDINGS

### IMMEDIATE PRIORITY ACTIONS

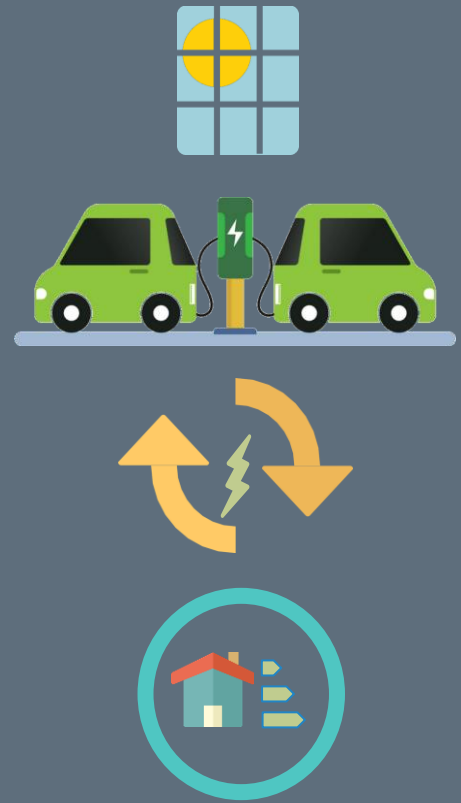
- ★ Beneficial Electrification for 5% of existing residential and commercial buildings each year.
- ★ For new and remodeled residential and commercial buildings, adopt 'above building code' standards and incentives, and implement net-zero or all-electric construction requirements by 2030. Work toward consistency across jurisdictional boundaries in Eagle County.
- ★ Implement a benchmarking ordinance in Eagle County for all commercial buildings 10,000 square feet or larger.



# What's the process for considering electrification?

- Jurisdiction goals
- Knowledge and ability to enforce requirements
- Looking at cost/benefit analysis
- Working with local utilities to make sure they are on board
- Designers and contractors who can implement it
- Volume of other code changes at play/timing
- Legality of the wording used
- Comparing to state language to make sure you're equal or exceeding
- Stakeholder involvement
- ....

# 2021 IECC Supporting Amendments



# Why Solar-Ready, EV-Ready, and Electric-Ready?

1. Many times cheaper than retrofitting.
2. Meet resident and customer needs.
3. Future-proof homes and buildings.
4. Overcome critical barriers to adoption.
5. Equity impacts / renter benefits.
6. Climate goals.



Electrical system retrofits



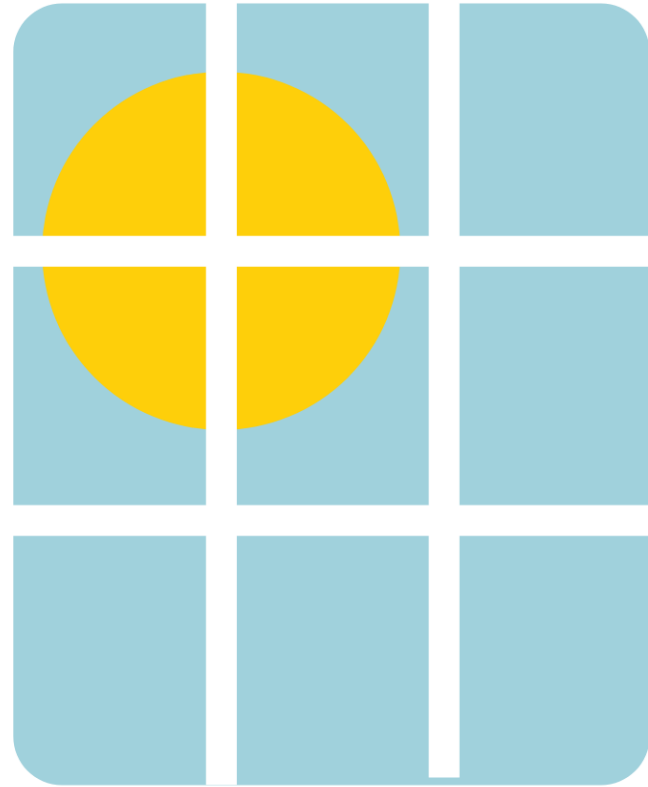
Breakage and repair of hardscapes



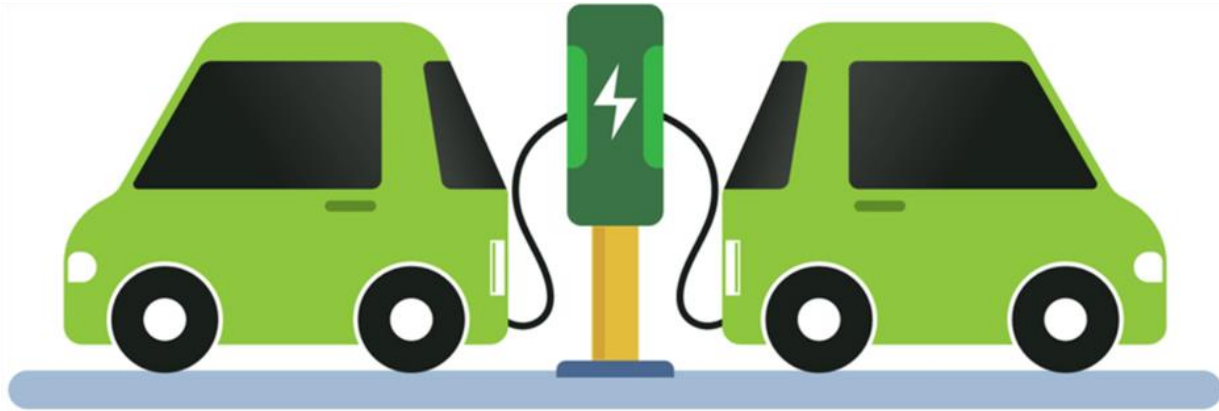
Soft Costs: permitting, inspection, HOA or landlord approvals, etc.



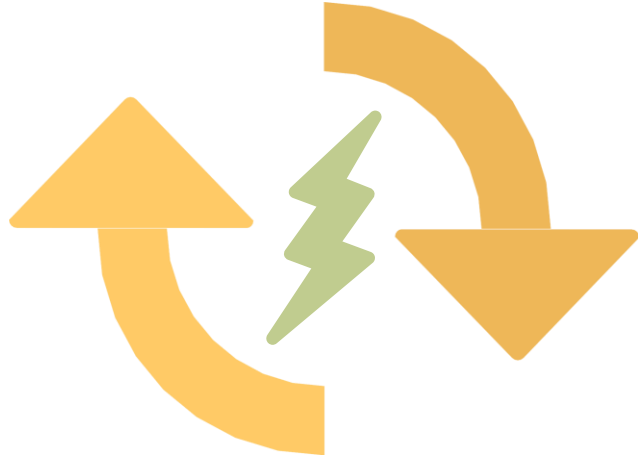
# Expanded Solar-Ready



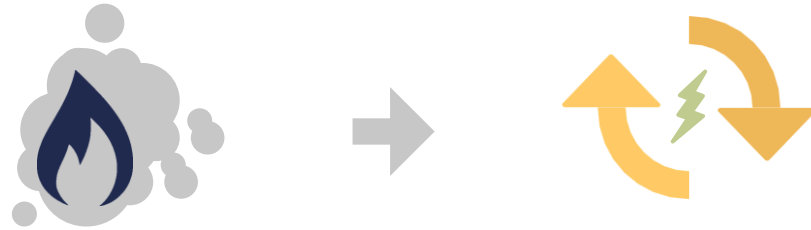
EV-Ready



Electricification



# What is Electrification?



Electrification means upgrading appliances, equipment, or vehicles that would otherwise run on natural gas, propane, or gasoline—such as furnaces, water heating, stoves, clothes dryers, and cars—to clean and efficient electric versions.

# Electrification Options



**Electric-Ready:** Pre-wiring and panel capacity for future electric systems **(required by state law)**



**Electric-Preferred:** Extra efficiency or renewable requirements for new construction with natural gas

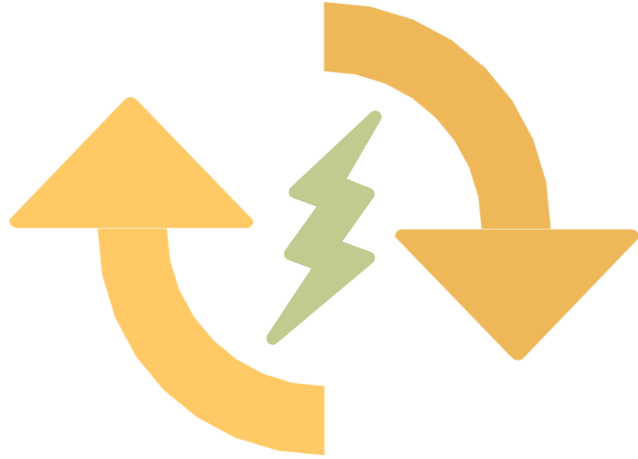


**Electric-Only Space and Water Heating:** Allows gas stoves



**Electric-Only with Exceptions:** No fossil fuels allowed in new construction except commercial kitchens, labs, emergency loads, etc.

Electric  
Preferred



# Electric-Ready / Electric-Preferred Amendment Specifics

Pathway	All-Electric	Mixed Fuel
Residential Prescriptive	As written: 1 add'l efficiency package	3 additional efficiency packages; electric-ready
Residential Total Building Performance	As written: 1 add'l efficiency package or <95% standard reference design	3 additional efficiency packages or 80% std ref design; electric-ready
Residential ERI (using HERS)	As written: 55 before 5% reduction	52 before 5% reduction; electric-ready
Commercial Prescriptive	As written: 10 points	20 points; electric-ready
Commercial Total Building Performance	As written	10 extra points; electric-ready
Commercial ASHRAE 90.1	As written	10 extra points; electric-ready

# Electric-Preferred Ranking

## Mild

- Just electric ready (wiring and panel capacity) as required by state law.

## Medium



## Aggressive

- All-electric heating and water heating for most residential, multifamily, and commercial buildings.



# Who Has Electrification Amendments?

## In Cohort:

- Avon (partial electric-ready: 200 amp panel)
- Basalt: electric-ready
- Vail: electric-ready
- Eagle County and Eagle – in process of electric-preferred likely
- Minturn – electric preferred

## Others statewide:

- Boulder: electric-preferred
- Boulder County: electric-preferred
- Crested Butte: all-electric
- Denver: electric-preferred\*
- Erie: electric-preferred
- Fort Collins: electric-ready
- Lafayette: all-electric\*
- Louisville: all-electric space and water heating (commercial)
- Northglenn: electric-preferred\*
- Superior: electric-preferred

\*in process at time of cohort work

# More jurisdictions adopting...

- **Edgewater**– Electric Ready, including existing
  - **Aspen**–Electric Preferred w/taskforce for all electric
  - **Gunnison County** – electric-ready
  - **Westminster**– electric preferred
  - **Broomfield**– electric-ready
  - **Longmont** – electric-ready
  - ... the list is growing. A report will be ready soon!
- ❖ After July 1, 2023 anyone changing codes will be going with a minimum of electric-ready provisions as written by the state, or equivalent

Q&A



# Thank you!

Shaunna Mozingo

President

The Mozingo Code Group LLC

[sdmozingo@mozingocodegroup.com](mailto:sdmozingo@mozingocodegroup.com)

