

Building Decarbonization Market Transformation & Funding Updates

Amy Jiron

**Director of Building Decarbonization
Colorado Energy Office**



COLORADO
Energy Office

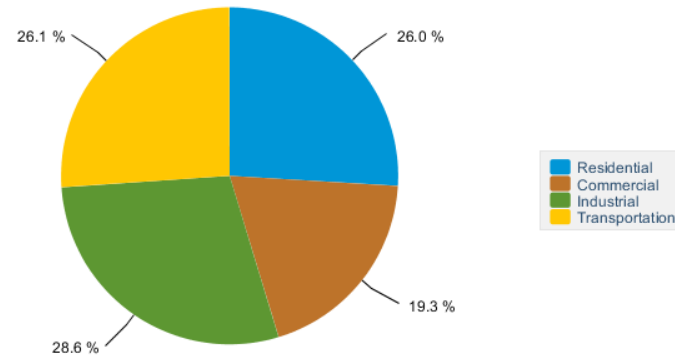


Buildings, Emissions & Energy in Colorado

- 5.8M people (2021), 46F average temp, 16.5 inches of rain
- Building Consumption
 - Residential: +2M homes, 377 Tbtu for \$3.8M in energy costs
 - Commercial: +250K commercial buildings, 281 Tbtu for \$2.7M in energy costs
- Renewables = 37% of total state energy generation (4X growth in the last decade)

Colorado Energy Consumption by End-Use Sector, 2020

(EIA [State Energy Profile](#))



eia Source: Energy Information Administration, State Energy Data System

State Building Decarbonization Initiatives

State Programs & Initiatives

Building Electrification for Public Buildings (HB22-1362)

- \$10,000,000 Grant Program
- Eligibility: Public buildings that install equipment that reduces GHGs
- 30% of grant fund earmarked for LMI, DI, Just Transition communities

High Efficiency Electric Heating & Appliances (HB22-1362)

- \$11,000,000 Grant Program
- Eligibility: All sectors, neighborhood-scale energy efficiency upgrades
- 36% of grant fund earmarked for LMI, DI, Just Transition communities

State Building Decarbonization Initiatives

State Programs & Initiatives

Geothermal Energy Grant (HB22-1381)

- \$12,000,000 Grant Program
- \$8M for space conditioning & water heating projects; \$4M for P3s to support electricity generation

Tax Policy That Advances Decarbonization (HB23-1272)

- \$500-\$3,000 tax credits for air, water and ground -source heat pumps
- Starts January 2024, implemented by Department of Revenue
- CEO contractor certification (tax credits are assignable)
- Still working through details...stay tuned!

Federal (IRA) Building Decarbonization Funding

Federal Programs & Initiatives

Home Electrification and Appliance Rebates

- \$73,000,000
- Electrification of efficient appliances (including electric service)
- Low and Moderate Income up to \$14,000

[RMI Overviews](#)

Home Energy Performance-Based, Whole Home Rebates

- \$69,000,000
- Modeled or measured energy savings
- Up to \$8,000 for income-qualified households

Federal Clean Energy Tax Credits

- Credits up to 30% of the cost of clean energy improvements
- Up to \$150 for energy audits



COLORADO
Energy Office



Related Federal Building Decarbonization Funding:

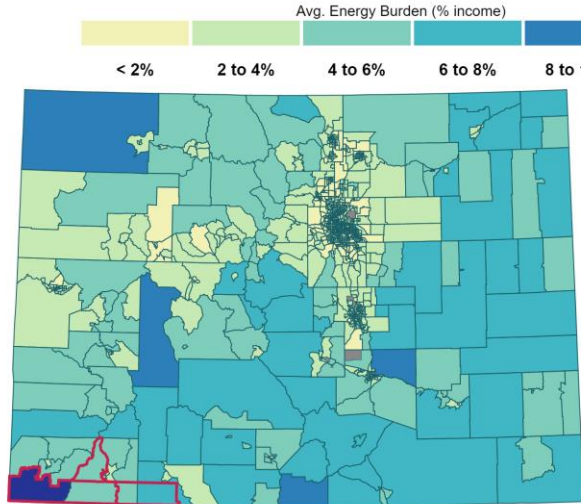
- IIJA Building Codes Implementation for Efficiency and Resilience (\$225M)
- IIJA Energy Auditor Training Program (\$40M)
- IRA Assistance for Latest and Zero Building Energy Code Adoption (\$1B)
- IRA Home Energy Efficiency Contractor Training Grants (\$200M)



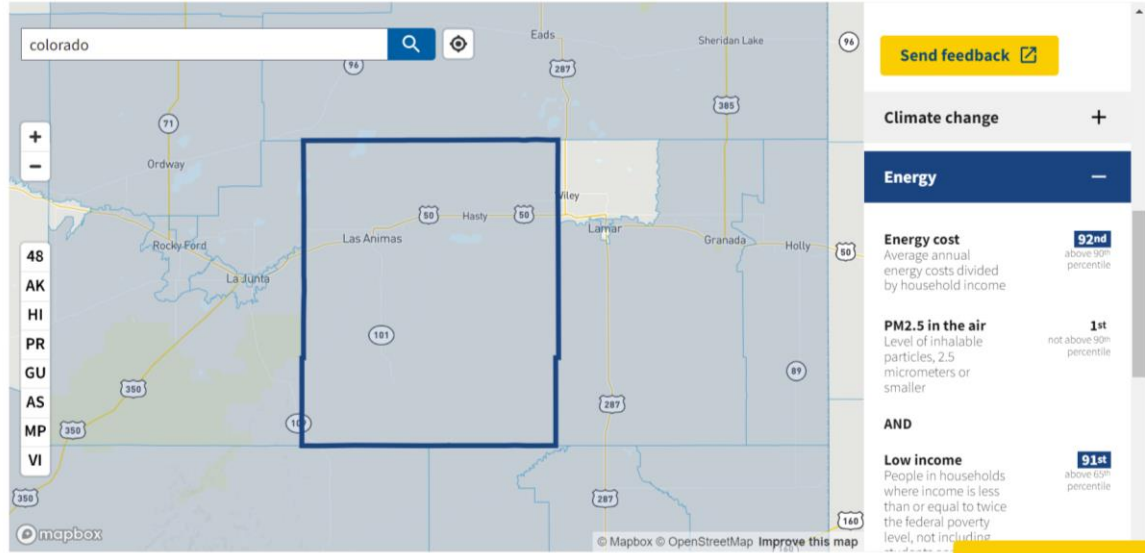
COLORADO
Energy Office



Tools for Targeting



Low-income Energy Affordability Data Tool Map Export (<https://lead.openel.org/>)
 Exported On: 5/11/2023
 AMI: 0% - 30%, 30% - 60%, 60% - 80%, 80% - 100%, 100%+
 Building Age: Before 1940, 1940 - 59, 1960 - 79, 1980 - 99, 2000 - 09, 2010+
 Heating Fuel Type: Utility Gas, Bottled Gas, Electricity, Fuel Oil, Coal, Wood, Solar, Other, None
 Building Type: 1 unit detached, 1 unit attached, 2 units, 3 - 4 units, 5 - 9 units, 10 - 19 units, 20 - 49 units, 50+ units, Boat/RV/Van, Mobile/Traill
 Rent/Own: Renter-occupied, Owner-occupied



Low-income Energy Affordability Data Tool

CEQ Climate and Economic Justice Screening Tool



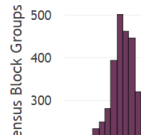
COLORADO
 Energy Office



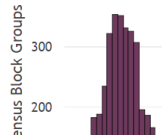
Tools for Targeting



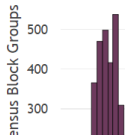
Environmental Exposures Score



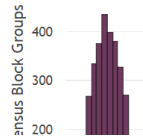
Environmental Effects Score



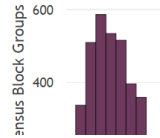
Climate Vulnerability Score



Sensitive Populations Score



Demographics Score



Colorado EJ Mapping Tool (census block, track & county): [EnviroScreen](#)



COLORADO
Energy Office



We are ALL EARS!

Amy Jiron

amy.jiron@state.co.us



COLORADO
Energy Office

