

# State Outlook on Getting to 100% Renewable Energy



**COLORADO**  
Energy Office

# About the Colorado Energy Office (CEO)

---



## Mission

Reduce greenhouse gas emissions and consumer energy costs by advancing clean energy, energy efficiency and zero emission vehicles to benefit all Coloradans.



## Vision

A prosperous, clean energy future for Colorado.



# CEO Structure

Community Access  
Enterprise

Executive Director,  
Deputy Director  
2 FTE

Executive  
8 FTE

- Communications
- Human Resources
- Environmental Justice
- Local Government
- Land Use

Transportation  
Fuels &  
Technology  
10 FTE

- Charge Ahead Colorado
- EV Corridors
- EV Plazas
- EBike programs
- Recharge Colorado
- EV outreach and education
- Research

Policy  
7 FTE

- Air Quality Control Commission & Public Utilities Commission (PUC)
- Legislative Relations
- Research

Building  
Decarbonization  
3 FTE

- Building Codes
- Benchmarking
- Building Performance Standards
- Affordable Housing
- Residential efficiency & electrification

Strategic  
Initiatives &  
Financing  
8 FTE

- Energy Efficiency Financing
- Geothermal
- Industrial Emissions Reduction
- Carbon Management
- Cannabis Energy Efficiency

Weatherization  
Assistance  
Program  
15 FTE

- Energy Efficiency Upgrades for Income Qualified Coloradans
- Rooftop Solar
- Beneficial Electrification
- Workforce Development

Operations  
7 FTE

- Accounting
- Budgeting
- Data Management
- Procurement



# Major Components of Colorado's Climate Policy

---

Establish greenhouse gas inventory with 2005 baseline

Reduce GHG emissions 26% by 2025, 50% by 2030, and 100% by 2050

Develop rules and policies to reduce GHG emissions

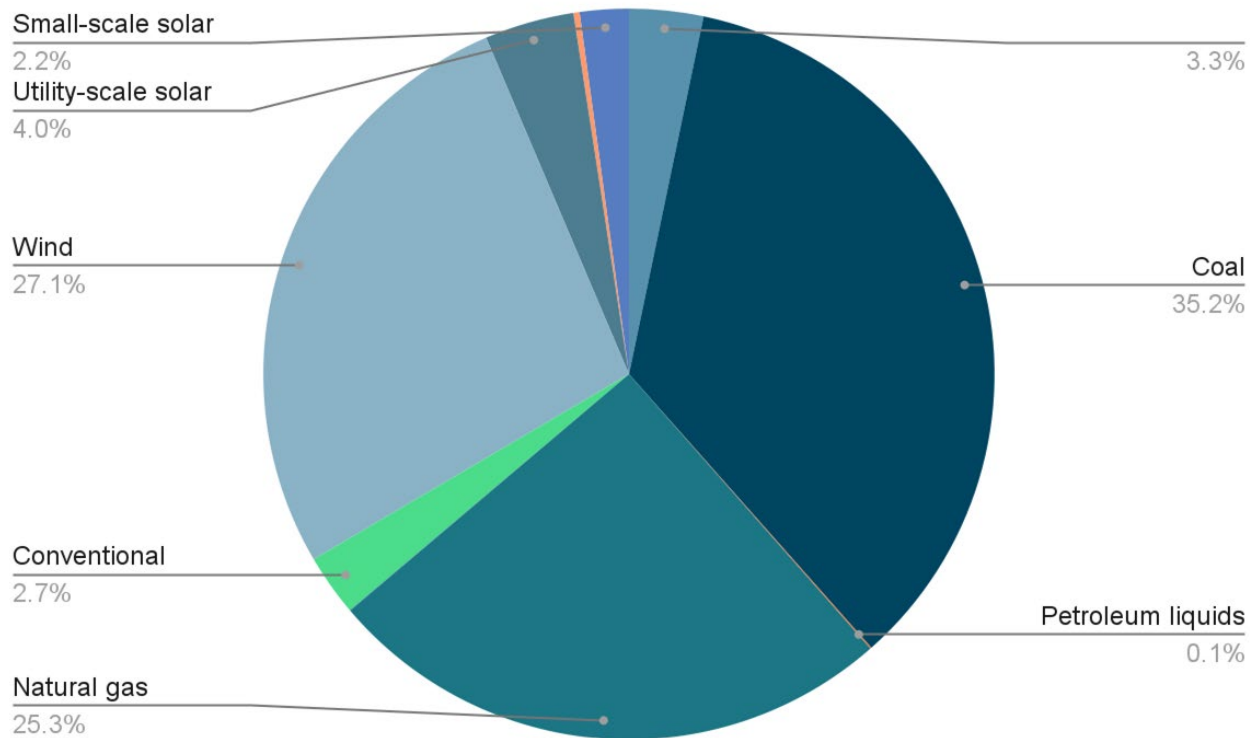
Creates regulatory path for electric utilities to meet 80% GHG reduction by 2030

Requires annual tracking and reporting through CDPHE



# Colorado Electricity Generation (2022)

---



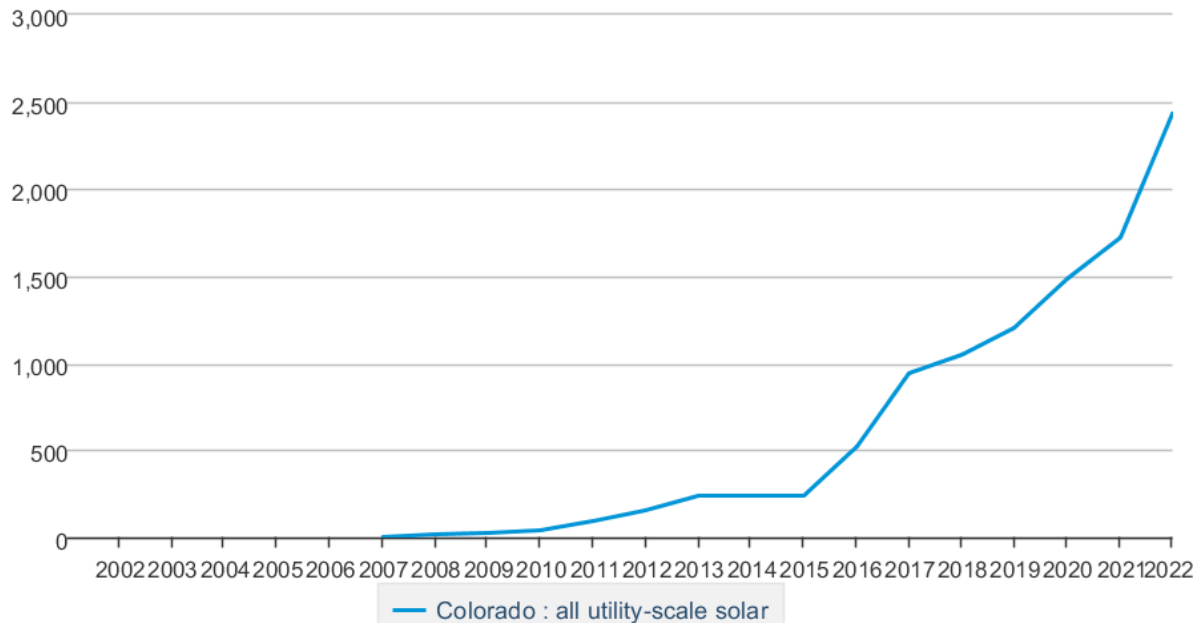
Source: Energy Information Administration, Electricity Data Browser



# Colorado Solar Generation (2008-2022)

## Net generation for electric power, annual

thousand megawatthours



Data source: U.S. Energy Information Administration



# Colorado's Clean Energy and Climate Policies

---

## Clean energy legislation enacted

- 2019: 14 bills
- 2021: 31
- 2022: 26
- 2023: 25

## Colorado's economy-wide GHG reduction goals, based on 2005 levels

- 26% by 2025
- 50% by 2030
- 65% by 2035
- 75% by 2040
- 90% by 2045
- 100% by 2050 target



# Colorado's Climate Principles

---

Promote Equitable Representation

Measure Economic Impacts

Build Resilience

Prioritize Public Health

Prioritize Equitable Benefits

Work Together For Solutions





# Colorado GHG Pollution Reduction Roadmap

---

- Worked with six of the state's utilities, which operate 99% of Colorado's fossil fuel-fired power plants, to create legally binding clean energy plans to reduce their greenhouse gas emissions by an average of 85% by 2030.
- Set first-in-the-nation requirements to reduce GHG emissions from natural gas utilities.
- Opened the nation's first statewide [Office of Just Transition](#) to support coal workers, employers, and communities affected by phase out of coal.
- Invested in statewide transition to electric vehicles (EVs), and adopted ZEV and ACT rules. Colorado is currently [first in the region, fifth in the nation](#) with EV market share.
- Established sector-wide emission reduction targets for buildings, and created building performance standards that apply to all commercial, multifamily, and public buildings 50,000 square feet and larger.
- Created or adopted first in the nation Transportation GHG Pollution Standard, rules for certain large industrial facilities to reduce their GHG emissions, and rules to reduce GHG emissions from oil and gas operations.



# Colorado GHG Roadmap 2.0

---

## 2023: public engagement and updated analysis

- Interagency discussion on potential areas for consideration, including:
  - Expanded focus on environmental justice and just transition
  - Expanded focus on 2030-2040 time horizon
  - Housing Policy
  - Carbon Management Technologies
  - Hydrogen Technologies
  - Geothermal Technologies
- Contracted with **Keystone Policy Center** to help organize and facilitate a public outreach and engagement process to inform the development of a detailed update to the State's greenhouse gas (GHG) pollution reduction roadmap
- Contracted with **RMI** for the development of a publicly available and updateable model that can be used to project greenhouse gas emissions reductions associated with state-level policy actions

## 2024: Release Roadmap and begin Near Term Actions



# *IIJA and IRA*

---

- Approximately \$250 million will flow through CEO
- CEO seeking competitive funding for hydrogen hubs, utility investments in wildfire detection and mitigation, energy codes, and building performance

CEO reviewing federal guidance:

- High Efficiency Electric Home Rebate Program (HEEHRA)
- Home Energy Performance-Based, Whole Home Rebates (HOMES)



[energyoffice.colorado.gov](http://energyoffice.colorado.gov)  
@COEnergyOffice



**COLORADO**  
Energy Office