

# Colorado Energy Office

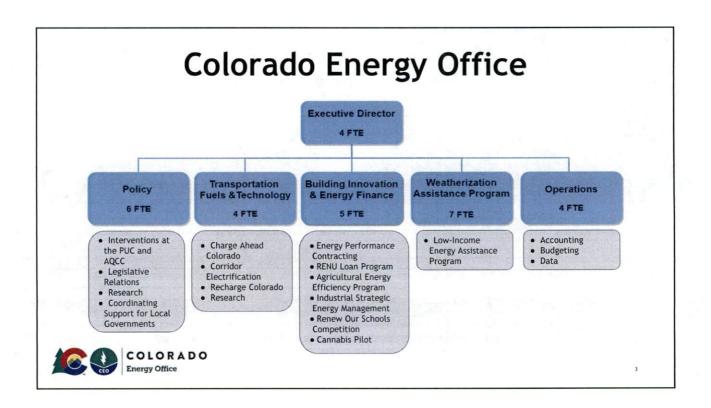
#### Mission

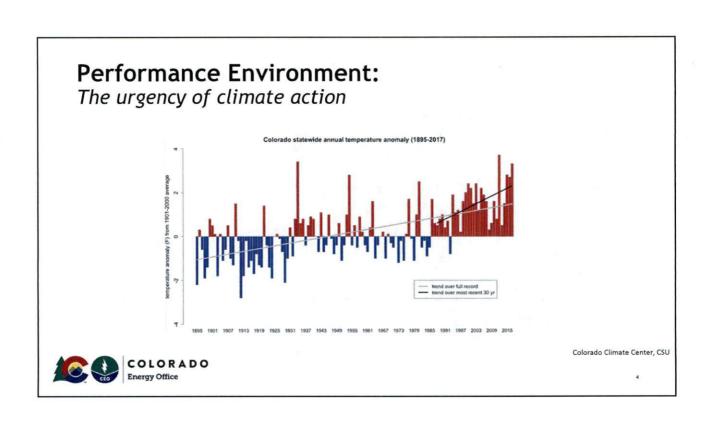
Reduce greenhouse gas emissions and consumer energy costs by advancing clean energy, energy efficiency and zero emission vehicles to benefit all Coloradans.

#### Vision

A prosperous, clean energy future for Colorado.

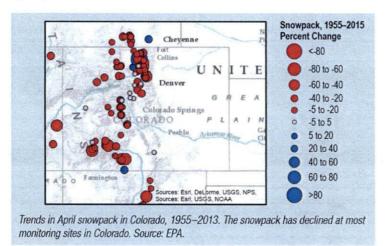






# **Performance Environment:**

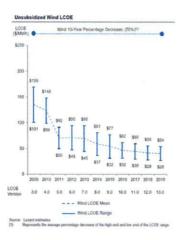
The urgency of climate action

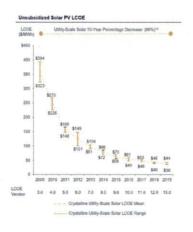


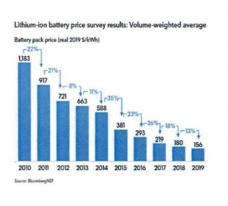


# Performance Environment:

Changing economics of wind, solar, batteries, and EVs









### **Performance Environment:**

Legislative and administrative direction

#### THE BOLD FOUR











### **CEO FY 2019-20 Goals**









Roadmap to **GHG** reductions 8t 100% renewable energy by 2040

Reduce emissions across the transportation sector

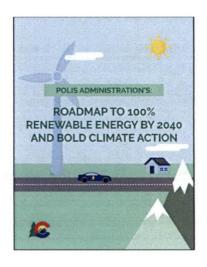
Support local community clean energy goals & promote clean energy economic opportunities

Increase access to energy improvements for homes & businesses

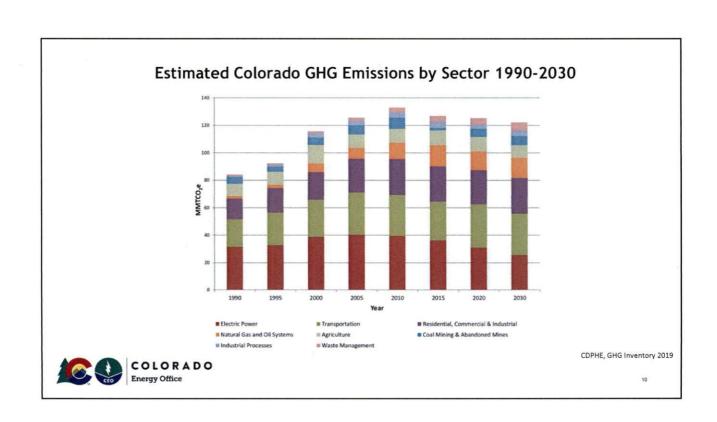


#### CEO Goal 1

Create a blueprint for pollution reduction to achieve 26% reductions in greenhouse gas (GHG) emissions below 2005 levels by 2025 and 50% reductions in GHG emissions below 2005 levels by 2030, and implement targeted strategies to achieve reductions in the electricity sector by June 30, 2020.







# CEO Implementation of 2019 Legislation

#### **Engaging with PUC Proceedings**

- · Distribution system planning
- Tri-State ERP
- Interconnection
- Energy Market Study
- Performance-based Ratemaking
- Electric Rule Amendments
- Community Solar Garden Rules

#### **Programs**

- Modernizing the Electric Vehicle Grant Fund
- Updating Building Energy Codes
- Roadmap for GHG Reductions
- Housing Authority Property In Colorado - New Energy Improvement District [C-PACE]
- Just Transition from Coal-based Electrical Energy Economy
- SB 239 Study/Stakeholder Process



# Energy Related FY 2019-20 Research

- Beneficial Electrification Market and Decarbonization Potential
- Clean Fuels Standard Feasibility Study
- Floating Solar Study
- Electricity Rate Structures for Electric Vehicles
- Energy Efficiency Opportunities in Oil & Gas Operations
- The Future of Energy Storage in Colorado Opportunities, Barriers, Analysis and Policy Recommendations



2

### CEO Goal 2

Increase the number of new light duty electric vehicles (EVs) sold on an annual basis from 4,156 in 2017 to:

- 10,500 by June 30, 2020
- 23,500 by 2022



Alliance of Automobile Manufacturers



# **Community Based Charging & Electrifying Corridors**

#### Charge Ahead Colorado

- Since 2013, CEO and RAQC have made awards for more than 1,000 stations
- In FY 2019, CEO made awards for 65 Level 2 and 8 DC fast-charging stations
- 13 of the entities awarded were local governments.
  - Town of Fraser
  - Pueblo County Town of Mancos
  - San Miguel County

  - Larimer County Town of Rico
  - City of Salida
- Town of Frisco
- City of Loveland
- City of Fort Collins City of Woodland Park
- Eagle County Government Town of Basalt

### **EV Fast-Charging Corridors**

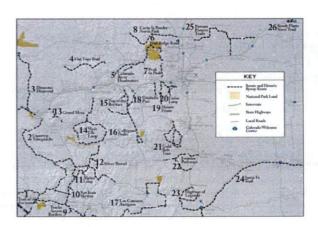


CEO



# Scenic Byway Electrification

- Partners: Colorado Tourism Office, CEO, CDOT, DOLA
- Goal: 5 byways electrified by FY21
- Complete Byways: Lariat Loop and Grand Mesa
- 1 DCFC short or already accessible for 200m+ range EVs: Trail of the Ancients, Guanella Pass, Flat Tops Trail, Collegiate Peaks, Colorado River Headwaters, Highway of Legends, Mount Evans







# Transportation Related FY 2019-20 Research

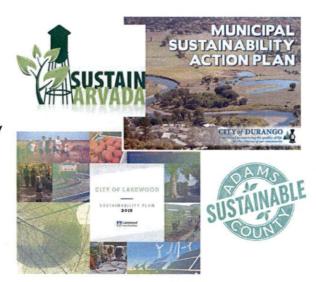
- Electric Vehicle Costs and Consumer Benefits in Colorado in the 2020-2030 Timeframe
- Xcel Energy Electric Vehicle Cost-Benefit Analysis
- DCFC Rate Design Study
- Colorado EV Growth Analysis
- Life-Cycle Emissions and Costs of Medium- and Heavy-Duty Vehicles in Colorado Market Study
- Renewable Natural Gas (RNG) in Transportation: Colorado Market Study



16

#### CEO Goal 3

Ensure that at least 10 communities adopt an Energy Performance Contract, an EV readiness plan, a clean energy plan, or an advanced building code by June 30, 2020





10

### **Additional CEO Goals**

- Increase average annual customer cost savings for Weatherization Assistance Program (WAP) clients from \$330 to:
  - \$375 by June 30, 2020 and \$425 by June 30, 2022
- Increase the number of energy service projects implemented from 2,035 in FY 2017-18 to:
  - 2,243 by June 30, 2020 resulting in a projected GHG reduction of 22,000 tons
  - 2,750 by June 30, 2022 resulting in a projected GHG reduction of 30,000 tons
- Increase the amount of facilitated/closed financing from CEO partnered energy improvement programs in the buildings sector from \$37.1M in FY2017-18 to:
  - \$55M by June 30, 2020 and \$80M by June 30, 2022



8

# **CEO 2020 Legislative Priorities**

- Electric Vehicle Manufacturer Direct Sales
- Commercial Building Benchmarking and Transparency
- Utility Beneficial Electrification Programs
- JBC decision item for increasing CEO's legal appropriation for Department of Law



