



Electric Vehicles: Speeding Up in Colorado

Gabriella Stockmayer

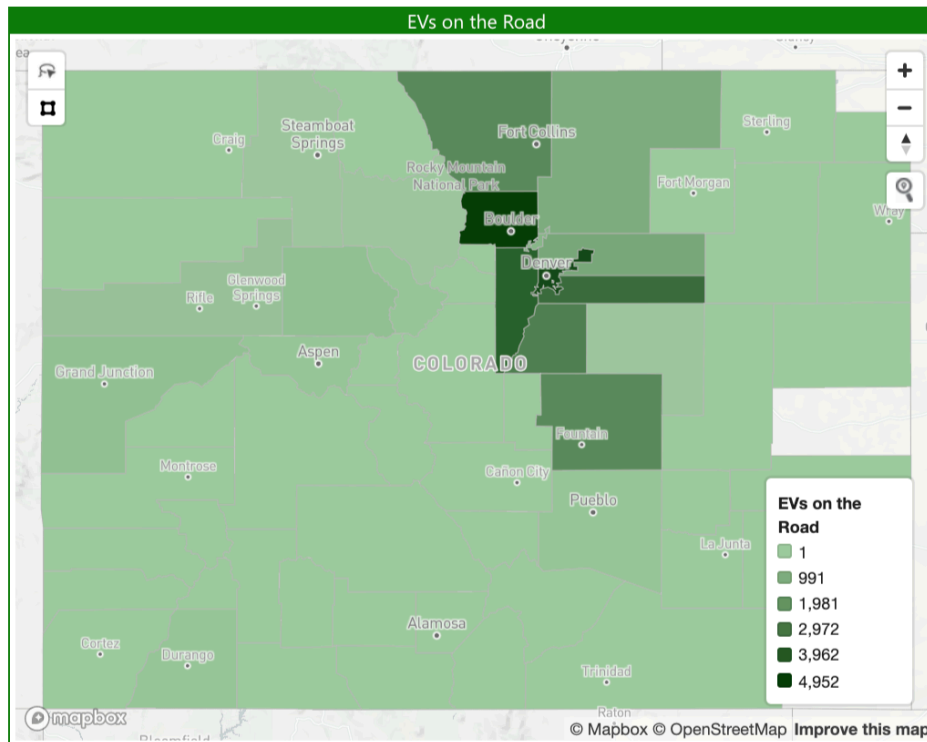
K.C. Cunilio

Dietze & Davis, P.C.

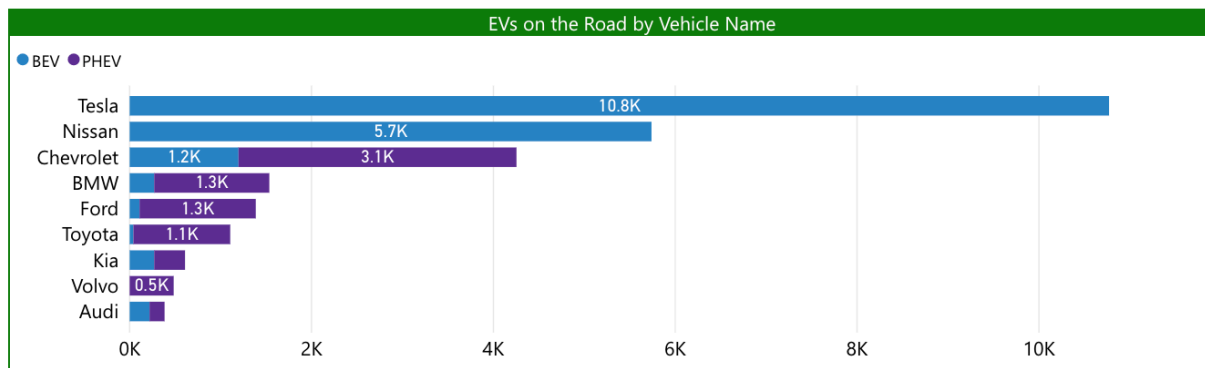
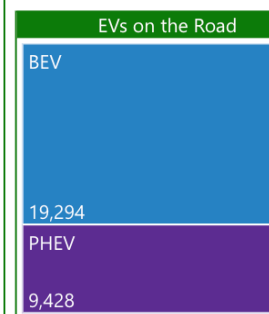
EV Market Today



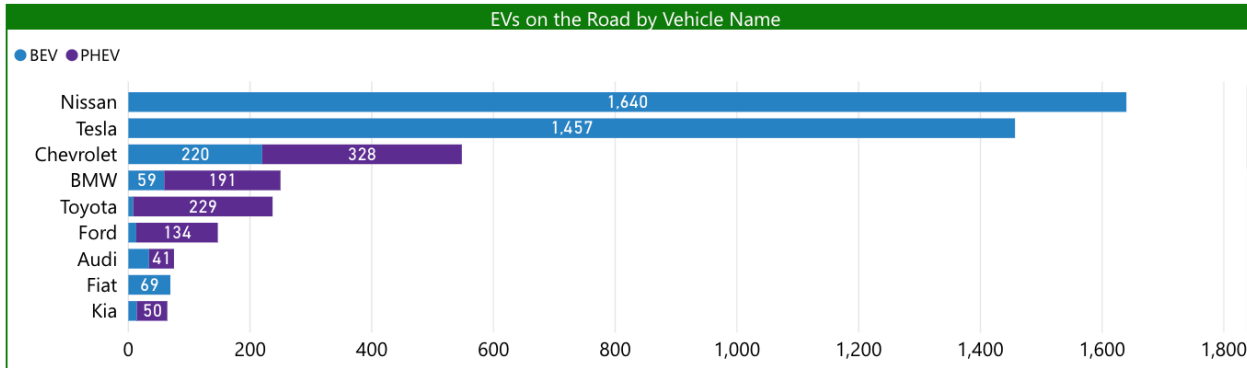
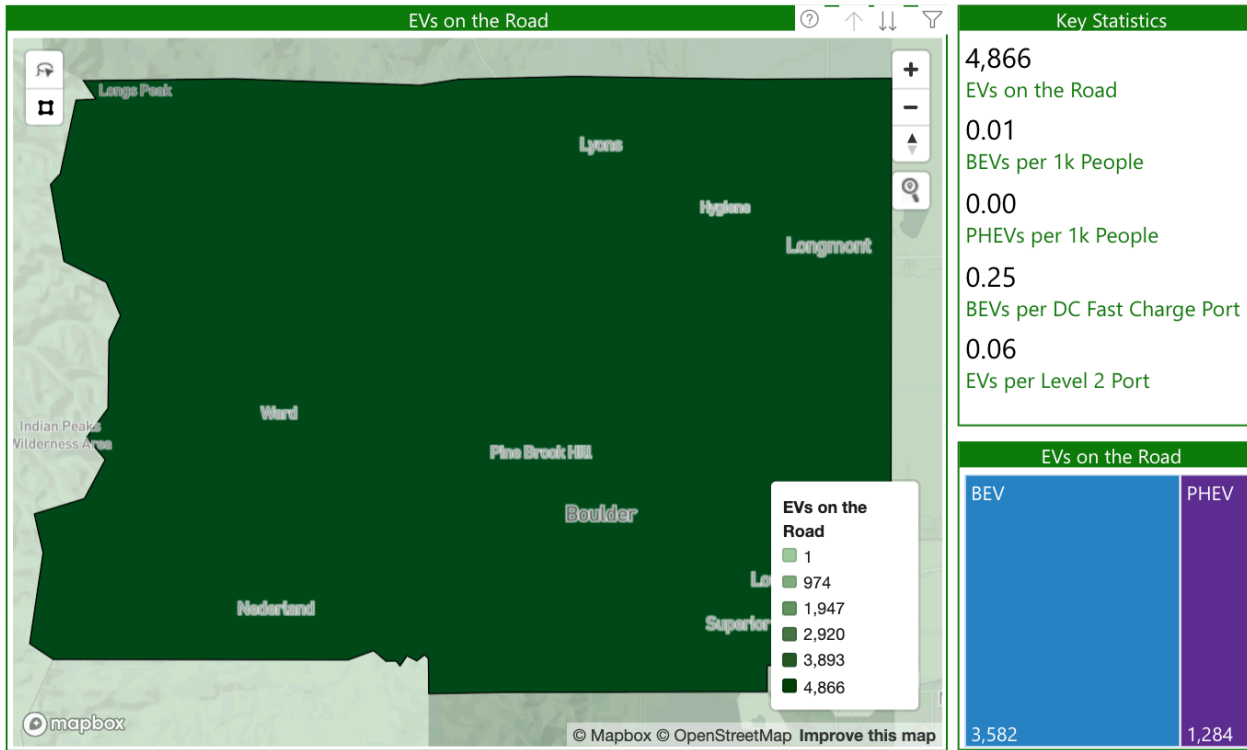
EVs in Colorado



Key Statistics	
28,722	EVs on the Road
0.06	BEVs per 1k People
0.03	PHEVs per 1k People
1.38	BEVs per DC Fast Charge Pc
0.39	EVs per Level 2 Port



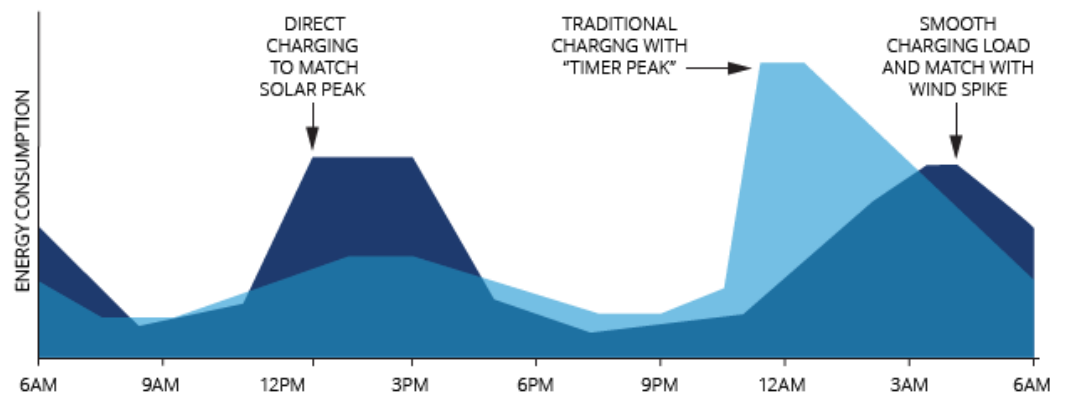
EVs in Boulder



Benefits of EVs



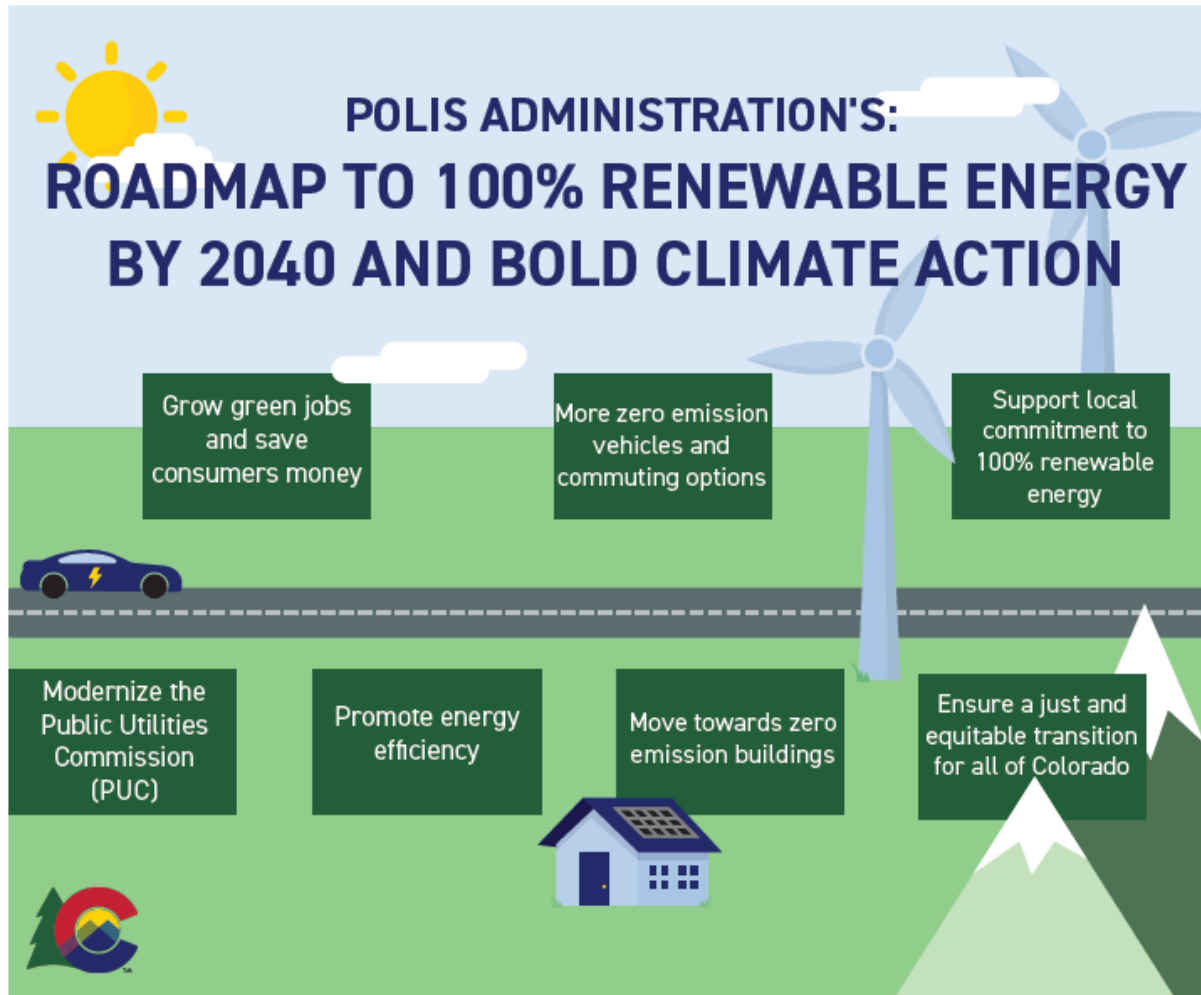
FIGURE 2: OPPORTUNITIES FOR EV MANAGED CHARGING TO MEET GRID NEEDS (ILLUSTRATIVE)



Source: BMW of North America, 2016²⁷ with edits by Smart Electric Power Alliance, 2017

Note: The light blue area illustrates the impacts of a hypothetical TOU residential charging rate with the lowest rate period beginning at 11 pm. The dark blue area shows how managed charging could distribute charging loads with peaks in renewable energy generation.

2019 Action



2019 Executive Orders

- **Executive Order B-2019-002 : Supporting a Transition to Zero Emission Vehicles**
 - Adoption of ZEV Rules
 - New Transportation Electrification Workgroup
 - CDOT Zero Emission Vehicle and Clean Transportation Plan
 - Re-commitment to REV West MOU
 - Revise Beneficiary Mitigation Plan



2019 Legislative Action

- **H.B. 1159** - Modifications to the Income Tax Credits for Innovative Motor Vehicles
- **H.B. 1198** - Power and Duties of the Electric Vehicle Grant Fund
- **S.B. 239** – SB19-239 - Addressing Impacts of Changes Related to Commercial Vehicles
- **S.B. 19-077** - **Public Utility Implementation of an Electric Vehicle Infrastructure Program**



Colorado PUC

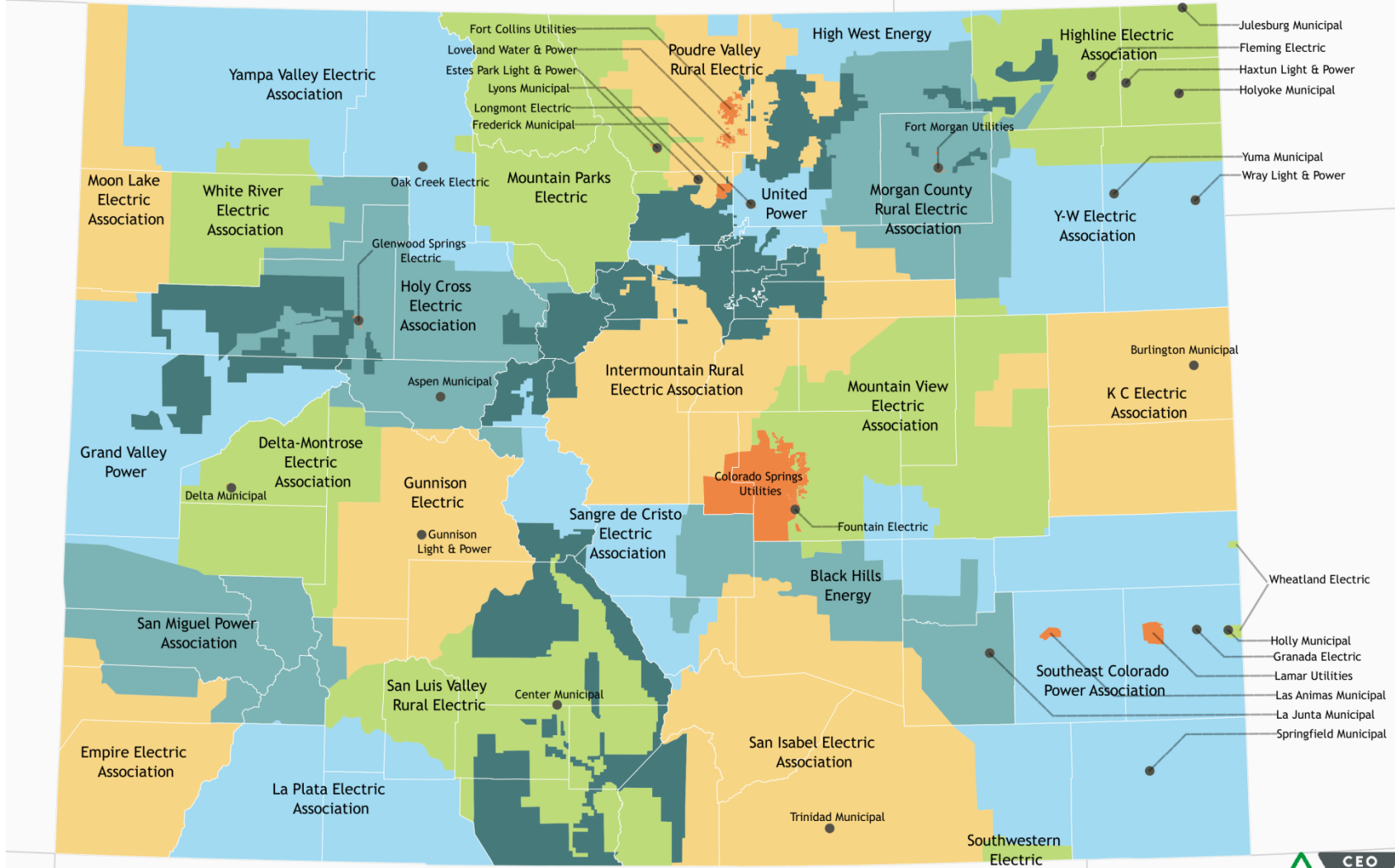


COLORADO

**Department of
Regulatory Agencies**

Public Utilities Commission

- Mission: The Colorado Public Utilities Commission (PUC) serves the public interest by effectively **regulating utilities and facilities** so that the people of Colorado receive **safe, reliable, and reasonably-priced services** consistent with the **economic, environmental and social values of our state**.
- What is a regulated public utility?



Xcel Energy



Build out of EV-Infrastructure



S.B. 19-077

- Allows public utilities to own charging stations while earning a return on the investment.
- Requires filing of Transportation Electrification Plans (“TEPs”)
- Focus: Infrastructure; ownership; cost recovery; rate impact



TEPs

- Public Service Company – 20A-0204E
 - 2021-2023
 - Requested budget: \$102 million
 - Significant Utility Ownership - EV Supply Infrastructure, some Chargers
- Black Hills Electric – 20A-0195E
 - 2021-2023
 - Requested budget: \$1.3 million

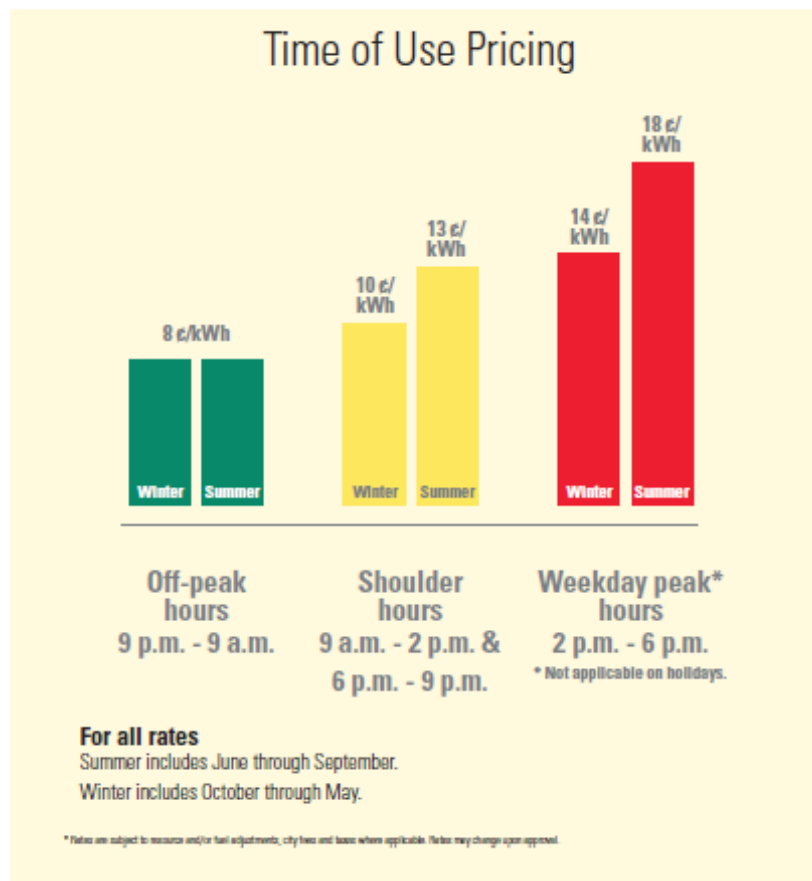
EV Rate Design

- Time-of-Use Rates

- General

- Xcel - 19AL-0687E

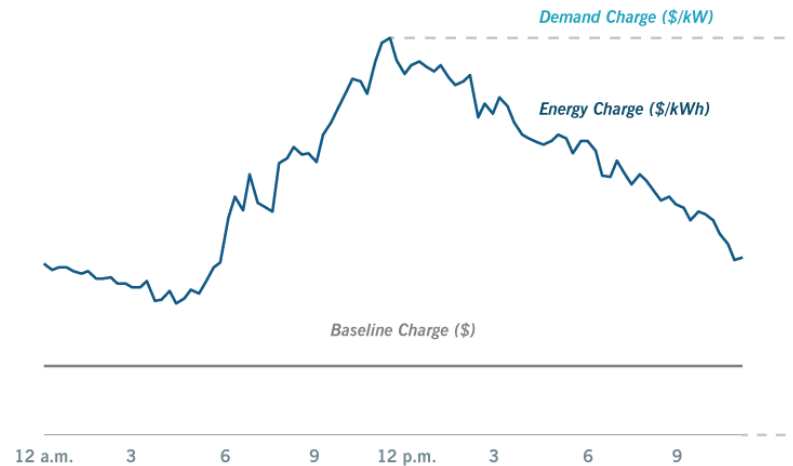
- EV-Specific



EV Rate Design

- **Demand Charges**
 - Other Jurisdictions
 - Xcel S-EV Tariff

Demand Charge Example



2020 Legislative Action

- SB-167
The "Rivian Bill"



Colorado EV Plan 2020

Colorado Electric Vehicle Plan 2020

APRIL 2020

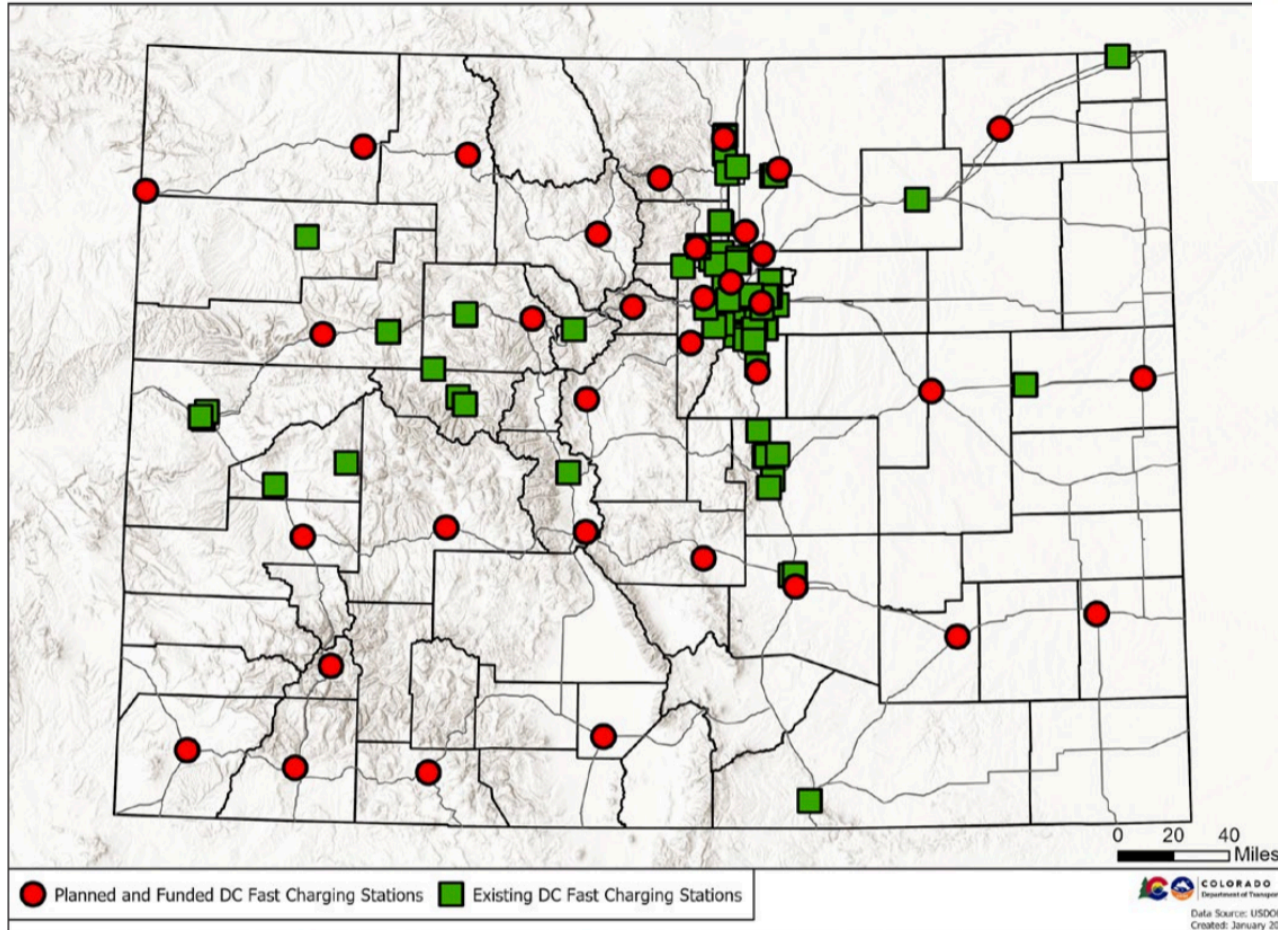


EV Adoption in the wake of COVID-19

- China observed a 90% drop in EV sales in Feb. 2020 during its strict isolation period
- Auto manufacturer shutdowns (VW, GM)
- Potential production and model launch delays
- EV registrations set to fall 18% this year

Charge Ahead Colorado

Colorado EV Fast-Charging Network 2020



Questions?

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