

# City of Centennial Electric Vehicle Action Plan

## About this Plan

This Electric Vehicle (EV) Action Plan is a roadmap to strategically guide Centennial action in a manner that supports increased use of EVs throughout the city, with a focus on private adoption, municipal fleet, public charging, and code updates. The EV goals and strategies outlined in this plan were developed collaboratively with a stakeholder team, including representatives from the City of Centennial, Colorado State University Extension, Intermountain Rural Electric Association, Denver South Economic Development Partnership, and Jacobs Engineering.

## Our Electric Vehicle Vision & Goal

**Vision:** Centennial will use innovative, collaborative, and cost-effective solutions to become a leader in EV adoption and infrastructure deployment.

**Goal:** Increase the number of registered EVs in Centennial zip codes to 18,000 by 2030, increasing from 2,000 in 2020.

## Our Roadmap for Achieving this Vision & Goal

To achieve this vision, the Centennial EV Action Plan is divided into four focus areas:

1. **Private Adoption:** Encourage residents to purchase EVs for private use through education and outreach as well as EV-friendly policies.
2. **Municipal Fleet Electrification:** Lead the way for the community by electrifying City-owned and contracted fleet vehicles.
3. **Public Stations:** Increase access to public charging for Centennial residents and visitors across the City to show support and to spur EV adoption.
4. **EV-Ready Development:** Explore ways to incorporate EVs into codes, standards, and processes to encourage EV infrastructure and private adoption.

### Why EVs?

Compared to conventional, gas-powered vehicles, EVs provide improved air quality, health, climate, and economic benefits. Studies from the Colorado Energy Office forecast significant economic and environmental benefits with increased EV adoption including driver savings, reduced pressure on electric rates, reductions in greenhouse gas emissions.<sup>1</sup>

<sup>1</sup>Colorado Energy Office <https://bit.ly/3qEF10m>



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## Our Strategies

### Private Adoption

- » PA-1 Conduct education and outreach to de-mystify EVs and promote incentives.
- » PA-2 Explore financing mechanisms to incentivize purchase of EV and chargers.

### Municipal Fleet Electrification

- » MF-1 Develop vehicle replacement plans and budgets.
- » MF-2 Develop fleet charging infrastructure implementation plan.
- » MF-3 Explore EV funding opportunities.

### Public Stations

- » PC-1 Promote existing charging stations and study use patterns.
- » PC-2 Conduct EV charging siting analysis to understand infrastructure capabilities and needs.
- » PC-3 Explore options for additional public charging stations, including at public facilities, community gathering spaces, and workplaces.

### EV-Ready Development

- » ERD-1 Update development codes to include EV infrastructure requirements.
- » ERD-2 Incentivize EV-ready development.

## By Reaching Our Goal We Will...



Increase the number of registered electric vehicles in Centennial zip codes to **18,000 by 2030**, increasing from 2,000 in 2020.



**Electrify 20%** of the City's light duty fleet by 2030.



Achieve a ratio of **8 public charging stations per 1,000 households** by 2030.



**Adopt EV-ready** development codes by 2022.



Issue **700 permits** for new public and commercial EV charging stations by 2030.



## How affordable are EVs?

While purchasing an EV may be out of reach for some, prices continue to fall every year due to improving technology and increasing production. It is estimated that for passenger cars, EVs will be the less expensive option by 2025.<sup>2</sup>

When looking at the total cost of ownership (financing, fuel, insurance, maintenance, registration, depreciation), EVs are already cost competitive. According to the US Department of Energy, it costs about half as much to drive an EV than a conventional gas-powered vehicle.



## How soon will EVs be on the road?

EVs are already here! In Colorado, EVs contribute to 3.7% of vehicle sales.<sup>3</sup> As of November 2020, more than 30,000 EVs were registered in Colorado, up from nearly 23,000 vehicles in 2019. In Centennial zip codes, more than 2,000 EVs were registered - a 30% increase from 2019.<sup>4</sup>

Growth is expected to continue, with Colorado expected to outpace the national rate of EV adoption. Under a medium scenario, more than 800,000 EVs are expected to be on the road by 2030 in Colorado, representing 12% of vehicles on the road.<sup>5</sup>

<sup>2</sup>Inside Climate News <https://bit.ly/3gkAwKC>

<sup>3</sup>Auto Alliance <https://bit.ly/33RYqYO>

<sup>4</sup>Colorado Energy Office <https://bit.ly/3qBrOfv>

<sup>5</sup>Colorado Energy Office <https://bit.ly/3gmyQQJ>



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