

# Electric Vehicle 101



[www.DriveElectricColorado.org](http://www.DriveElectricColorado.org)

01

## **WHAT IS DRIVE ELECTRIC COLORADO?**

Understand the Drive Electric Colorado initiative

02

## **BENEFITS of EVs**

Learn about why we love EVs so much

03

## **FINANCIAL INCENTIVES**

Learn about the state and federal tax credits, as well as utility incentives

04

## **CHARGING**

Learn the differences between EV charging types

05

## **EV AVAILABILITY**

EVs are available in Colorado!



# What is Drive Electric Colorado?

Initiative run by [Drive Clean Colorado](#) with collaboration from local EV coaches & partner organizations



- **Goal: to accelerate EV adoption in Colorado**
- Part of Drive Electric USA, nationwide initiative
- Offer free EV coaching for consumers plus EV experiences (like ride & drives and workshops)
- Information and tools - plus access to real EV drivers on [www.DriveElectricColorado.org](http://www.DriveElectricColorado.org)



## EVs are quiet & safe

- No loud engine
- Ambient noise
- Heavy batteries prevent rollover

## EVs are clean

- Less lifetime GHG emissions than gas cars
- No direct tailpipe pollution

## EVs save you money

- Charging costs significantly less than gas (~\$1/gallon)
- Little to no maintenance

## EVs are fun

- Instant peak torque
- Regenerative braking
- New technology

## Environmental Deep Dive

- Every day, the grid is getting cleaner
- EVs are more efficient than gas cars
- ‘Emissions over the lifetime of average medium-size BEVs registered today are already lower than comparable gasoline cars by... 60%–68% in the United States’  
[\(ICCT Report, 2021\)](#)
- EV batteries can be reused for storage, energy storage or recycled

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### EV Myth

EVs are just as bad for the environment as fossil fuel cars.

### Myth Busted

EVs run more efficiently, emit no tailpipe emissions, and produce fewer emissions overall.





**Did you know?  
Tax credits can  
be stacked!**

**That's up to  
\$10,000 in tax  
credits!**

## Tax Credits

**Colorado State Tax  
Credit**

**\$2,500** for a new EV  
**\$1,500** for a 2-year lease

**Federal Tax Credit**

**up to \$7,500** for a new EV

based on income tax liability  
excludes Tesla & GM

\*Drive Electric Colorado is not a tax advisor

# Utility Incentives



- **EV Charger and Wiring Rebate**
  - \$500 or \$1300 for income qualified customers for all Level 2 charger or home wiring upgrade
- **Optimize Your Charge program**
  - \$50 annual credit on your bill when you opt into an off-peak charging schedule
- **EV Accelerate at Home**
  - Xcel Energy will install and maintain a Level 2 charger for you for \$13.29/month
- **Income-Qualified EV Rebate**
  - \$3,000 for a used EV
  - \$5,500 for a new EV

# Utility Incentives



## EV Charging Rebate

- \$500 for eligible customers who install a qualifying Level 2 charger and enroll in residential Time-of-Day\* rates
- Up to \$1,300 for income-qualifying customers

## Time-of-Day Rates

- Time-of-Day on-peak period: 3-7pm during weekdays and non-holidays. All other times are lower priced hours, or the off-peak period – *charging an EV is much more affordable during off-peak hours!*
- Required for all customers accepting a Black Hills Energy EV charger rebate

# HOW DOES EV CHARGING WORK?

	Level 1	Level 2	DC Fast Charging
Range Added	5 miles per hour	25 miles per hour	90 miles in 30 minutes
Power	120 volts	240 volts	480 volts
Cost*	\$0.21 per hour	\$0.73 per hour	\$10 per 30 minutes
Location		  	 

\*all costs are approximate; Level 1 and 2 cost based on CO state average of \$0.11 per kWh; DC Fast Charging based on \$0.40 per kWh

## Electric Trucks

- Rivian, Ford F-150 Lightning, Hummer, etc
- Towing capacity, AWD, high clearance

## Electric Bikes

- Consider switching to an electric bike if you aren't ready for an EV
- Road, cargo, and mountain e-bikes

## Electric Cars

- Great for commuting
- Easier to find used electric cars

## Inventory

- Check with your dealership
- May need to pre-order

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## More Info

Visit [DriveElectricColorado.org](https://DriveElectricColorado.org) to find more info on:

- EV Myths and Mythbusters
- EV Line Up - sort through models to find the one for you
- Be in Charge Pledge - commit to driving an EV!
- Upcoming EV-ents

 Meta



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# QUESTIONS?

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