

CITY OF DUBLIN

ELECTRIC VEHICLE CHARGING STATION STUDY



DUBLIN  
CALIFORNIA

# Let your next vehicle be an electric vehicle (EV)

## Fun facts about EVs!

\$800/year in fuel cost savings

\$700/year cost savings on maintenance

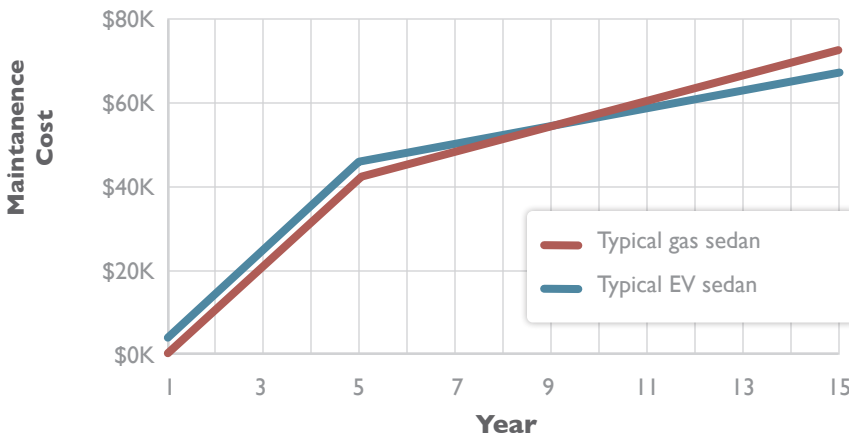
100% of new car sales will be zero emission in California by 2035

Up to 8-year/100k-mile battery warranty

New EVs start under \$35k (before incentives)

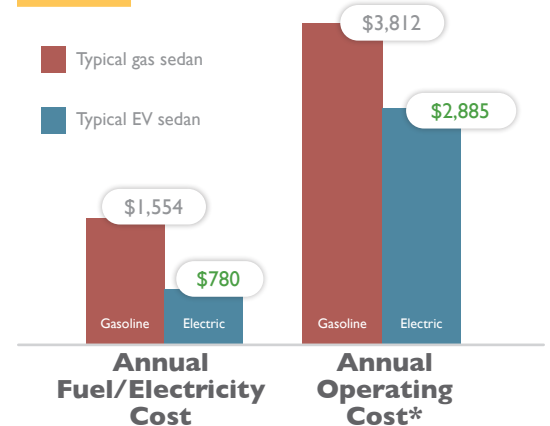
See available EVs at <https://afdc.energy.gov/vehicles/search/>

## LIFETIME COST OF OWNERSHIP



Average savings calculated using the Alternative Fuels Data Center Vehicle Cost Calculator (<https://afdc.energy.gov/calc/>)

## SAMPLE ANNUAL VEHICLE OWNERSHIP COSTS



\*Includes fuel, tires, maintenance, registration, license, and insurance

Average savings calculated using the Alternative Fuels Data Center Vehicle Cost Calculator (<https://afdc.energy.gov/calc/>)

### EV DRIVING BENEFITS

- > Quiet ride
- > Fun to drive
- > Smooth operation
- > Better handling
- > Increased reliability

### EV ENVIRONMENTAL BENEFITS

- > No tailpipe emissions
- > Greenhouse Gas emission reduction
- > Improved community health and air quality

# ALL THE WAYS TO CHARGE

## Level 1 Charger



### Level 1 Charger

Uses a standard 110-V household outlet. Very low cost and ideal for overnight residential charging. Recharges 3.5–6.5 miles of range per hour.

## J1772



### Level 2 Charger

Ideal for overnight residential, workplace, and commercial charging. Low to mid cost and recharges at 14-35 miles of range per hour. All EVs can use Level 2 chargers.

## CHAdeMO CCS-I Tesla



### Level 3 DC Fast Charger

Ideal for short stops along major travel corridors. High cost but can recharge up to 80% in under 30 minutes. Different EV brands are compatible with different chargers.



**Charge at home, at work, or on the road**



**There are over 30,000 chargers in the Bay Area and more are being installed every day.**



**If you rent, you can work with your landlord to install a charger, per California Civil Code 1947.6**

To find the location of your nearest EV charging station, visit: [www.plugshare.com](http://www.plugshare.com)

# TIME-OF-USE RATES

Save money by charging your EV during off-peak times in the middle of the day when there is extra solar power, or overnight when demand is low. Avoid charging during peak electricity demand periods between 4 pm to 9 pm. With smart meters you can charge your EV when there is extra renewable energy available. In the future, vehicle-to-grid or vehicle-to-home technology can allow the EV to power the grid and pay YOU for it, or you can power your home during a power outage.

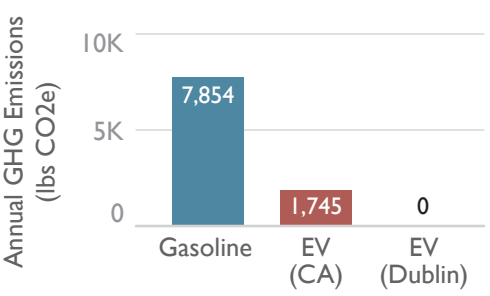
# ELECTRIC VEHICLE FUNDING\*

Save Even More with Federal, State, Local, and Utility Incentives for EVs and Chargers		
Federal	State	Local/Utility
Inflation Reduction Act (IRA) New Vehicle Tax Credit – up to \$7,500 (restrictions apply)	<b>California Clean Vehicle Rebate Project</b> for New EVs: \$2,000–\$4,500 (income-eligible)	PG&E <b>Time of Use Rates</b> to reduce the cost of EV charging overnight
IRA Used Vehicle Tax Credit – up to \$7,500 (restrictions apply)	<b>High Occupancy Vehicles Lane Exemption</b>	PG&E <b>Used EV Rebate</b> \$1,000–\$4,000 (income-eligible)
IRA Home EV Charger – 30% of cost up to \$1,000		PG&E <b>Empower EV</b> up to \$2,500 for home charger (coming soon, income-eligible)

\*As of February 2023, to see a list of all available incentives, visit <https://afdc.energy.gov/laws>

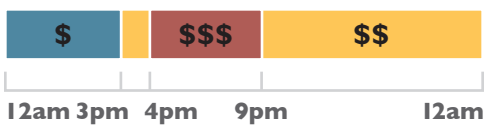
SINCE CA USES A LOT OF CLEAN ENERGY, THE EMISSIONS FROM DRIVING AN EV ARE SIGNIFICANTLY LESS THAN A GASOLINE VEHICLE. IN DUBLIN, MOST ELECTRICITY ACCOUNTS ARE RENEWABLE 100 WHICH IS 100% GREEN HOUSE GAS EMISSIONS FREE!

# ANNUAL GHG EMISSIONS EV VS GASOLINE



Emissions for California calculated using the Alternative Fuels Data Center Emissions Calculator ([https://afdc.energy.gov/vehicles/electric\\_emissions.html](https://afdc.energy.gov/vehicles/electric_emissions.html)). Dublin sources 100% GHG free electricity.

## Cost of Electricity



Over 50 new EV models expected to be available by 2030

Old batteries can be used for energy storage or recycled

211 miles – average EV range