

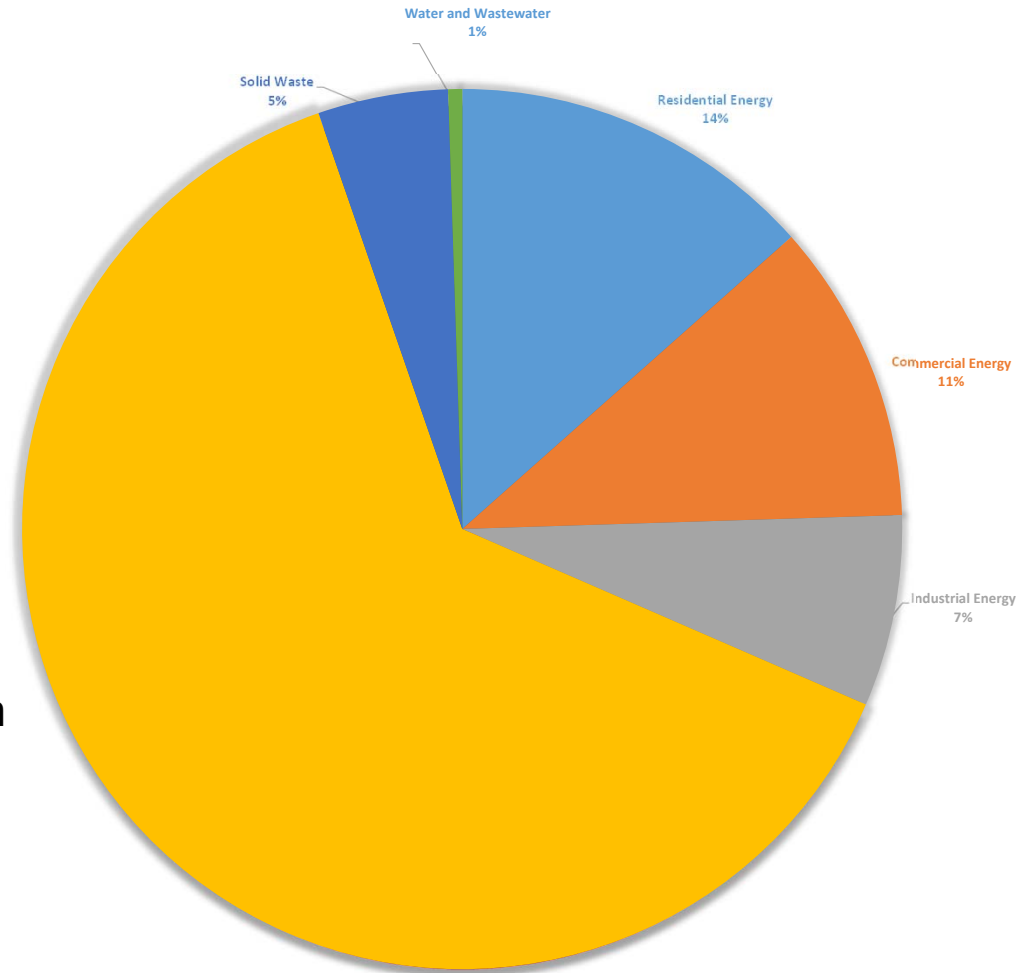


DRIVE ELECTRIC SAN JOSE

Presentation to the City of San Jose Youth Commission

Greenhouse Gas Emissions in San Jose

63%
Transportation



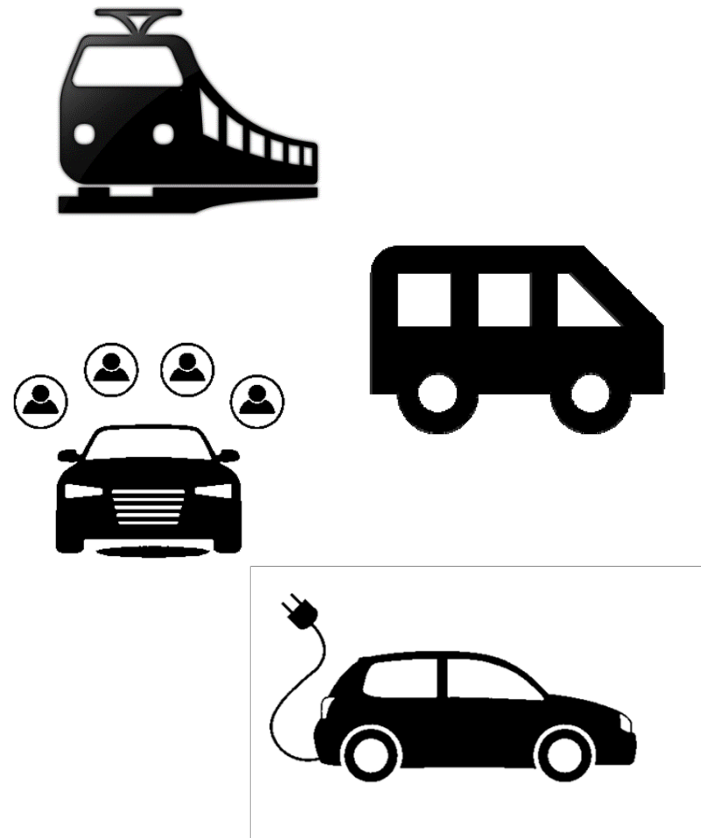
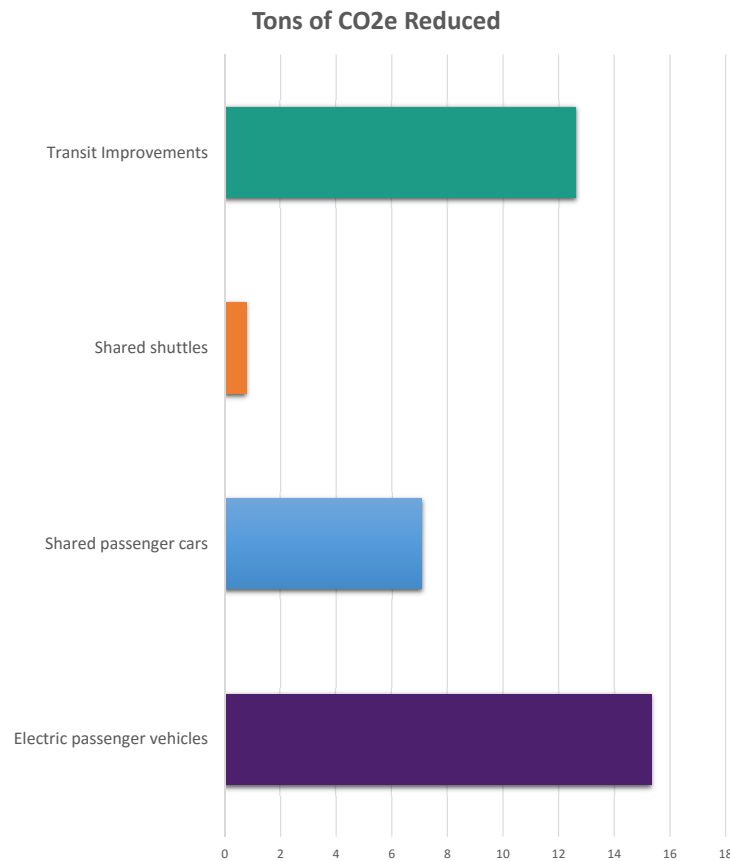
Community Health



~60% of local air pollution (smog forming NO_x) **directly caused by on-road mobile sources** (gas cars and trucks)

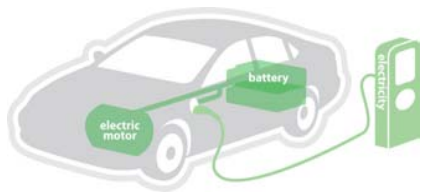
*Source: Union of Concerned Scientists
(www.ucsusa.org)*

How do we reduce greenhouse gas emissions?

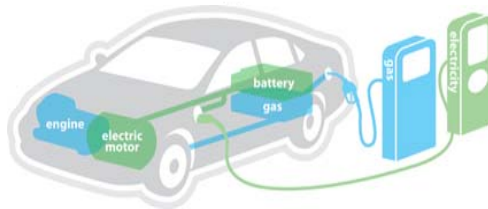


BEV vs PHEV vs Gasoline Hybrid?

Drive Electric San José vehicle types



**Battery Electric Vehicle
(BEV)**



**Plug In Hybrid Electric Vehicle
(PHEV)**



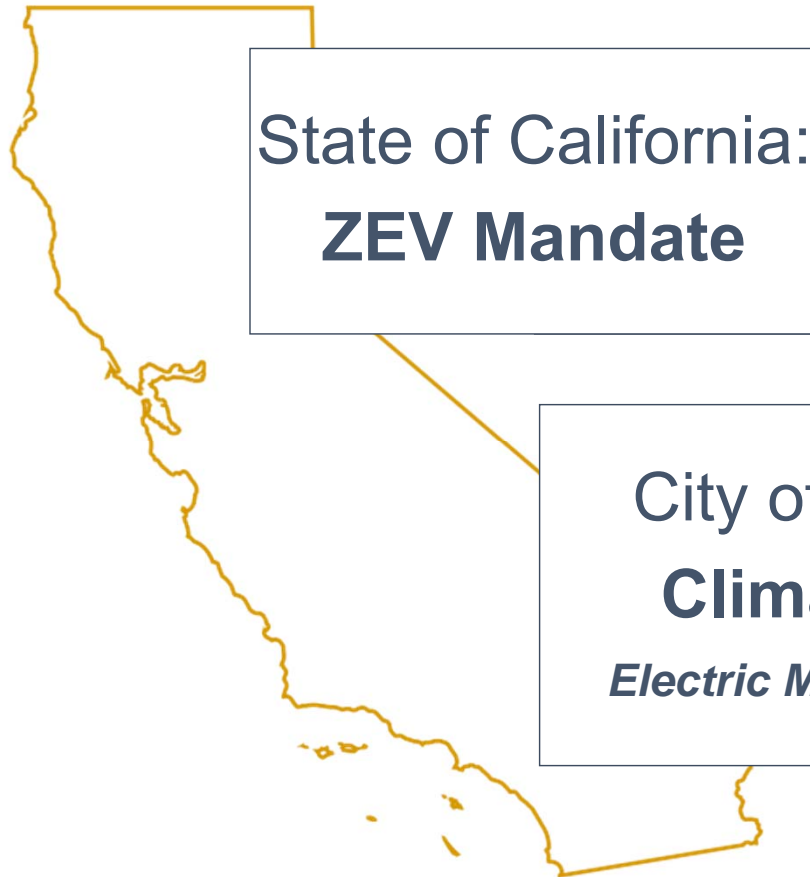
Gasoline Hybrid



**Internal Combustion Engine
ICE**

Carbon and Cost Efficiency

Electric vehicles in California



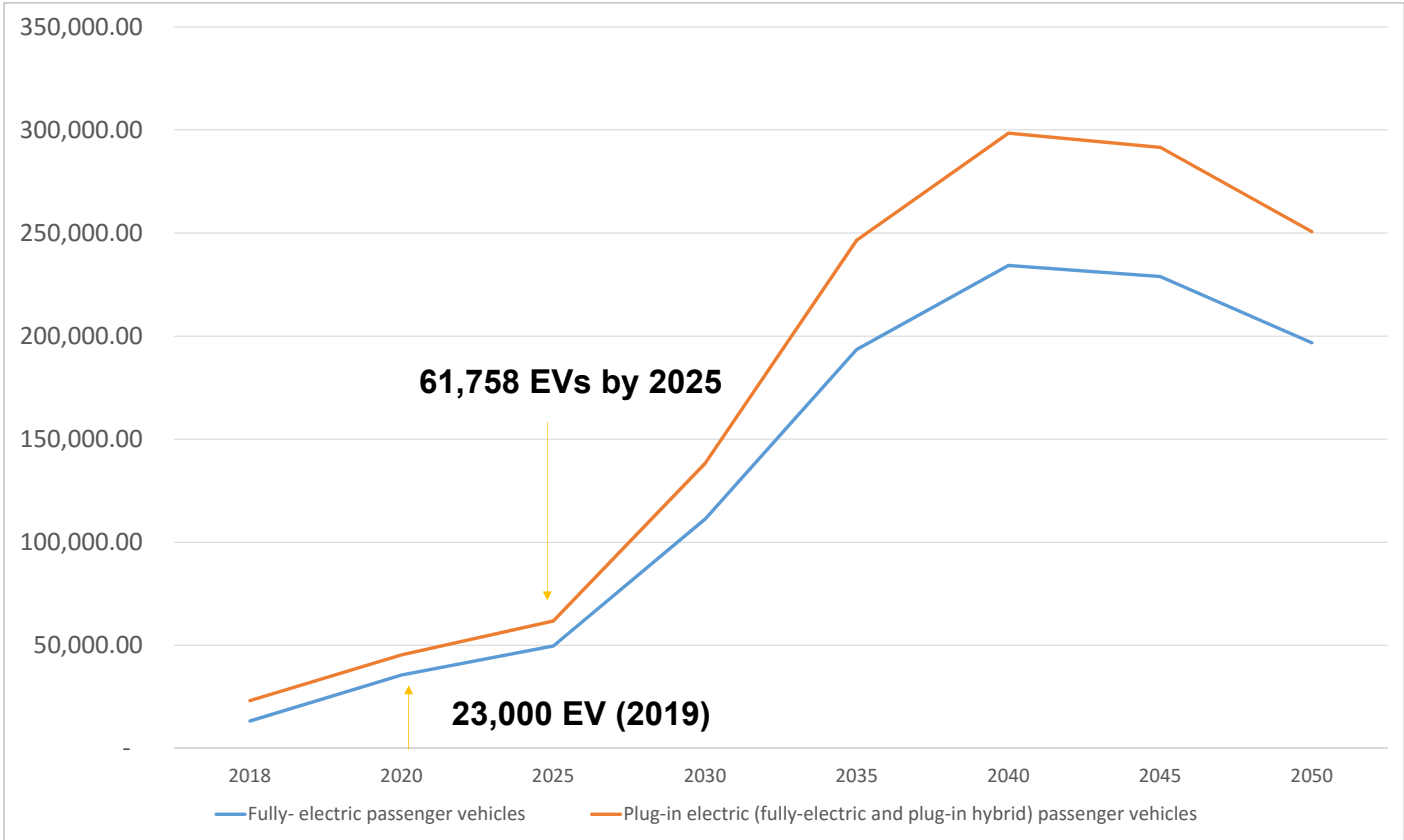
State of California:
ZEV Mandate

“Zero Emission Vehicle” (ZEV) mandate:
5 million electric vehicles
250,000 public chargers by 2030

City of San José:
Climate Smart
Electric Mobility Roadmap

City of San Jose Climate
Action Plan:
38,000 more electric
vehicles on San Jose
streets by 2025

Rapid Adoption of EVs Is Needed to Meet Our Goals



Challenges With Growing The Electric Vehicle Market



People are unfamiliar with EV technologies, perception of “range anxiety”



Charging infrastructure is still relatively limited in homes, workplaces, and public places



EVs are cost prohibitive for many consumers

Public Awareness Campaign

NISSAN LEAF PLUS

Incentive	Details	Discounts
Federal Tax Credit <i>Plug-In Electric Drive Vehicle IRS Tax Credit</i>	For people leasing, take this immediately off the price of the car. Customers purchasing an EV will need to apply separately through the IRS and will receive a dollar for dollar tax credit (either as a deduction or refund).	\$7,500
State Rebate <i>Clean Vehicle Rebate Project</i>	An additional \$2,000 is available for customers with household incomes less than 300% of the federal poverty level*.	\$2,000
Dealership Discount	Available April 1-June 30, 2020	\$3,000
PG&E Clean Fuel Rebate	All incomes. Everyone in Bay Area qualifies.	\$800
Total Incentives off MSRP		\$13,300

- *Additional incentives for low-income households:
- Clean Cars for All: up to \$9,500 towards the purchase or lease of new or used EV. Can be combined with State Rebate. Must replace car from 2004 or older.
 - Clean Vehicle Assistance Program: \$5,000 towards the purchase or lease of new or used EV. Cannot be combined with State Rebate.



BEFORE YOU BUY

DETERMINE IF AN ELECTRIC VEHICLE IS RIGHT FOR YOU

How many miles do you drive each day?
Standard EVs get anywhere from 132 miles (Nissan Leaf SV) to 312 miles (Tesla Model S) - if you drive less than 30 to 40 miles from work, an electric vehicle could be a good fit for you.

Do I have regular access to charging at home or at work?
If you have an electrical outlet in your garage or driveway, you can easily install a Level 1 charger or hire an electrician to install a Level 2 charger at home. If there are chargers available at your workplace, you instantly double your daily range!

TAKE ADVANTAGE OF INCENTIVES

FEDERAL CREDIT | UP TO \$7,500
Tax credit for new BEV and PHEVs, both purchased and leased. Fill out IRS form 8879 to get a dollar-for-dollar reduction to your tax bill (either as a refund or reduction). The credit phases out when at least 20% of a manufacturer's vehicles have been sold. If leasing your electric vehicle, ensure that the federal tax credit associated with your car is deducted from the price of your monthly lease.

STATE | UP TO \$2,000
California's Clean Vehicle Rebate Project offers rebates up to \$2,000 for BEVs and \$1,000 for PHEVs, with an additional \$2,000 for lower income customers. The rebate applies to new vehicles only, both purchase and lease.

UTILITY (PG&E) | \$800
PG&E, through funds from the State of California's Low Carbon Fuel Standard program, offers an \$800 rebate to its utility customers who own or lease a PHEV or BEV.

LOW INCOME REBATES | Up to \$9,500
Clean Cars for All offers up to \$9,500 towards the purchase of an electric vehicle for qualifying households. It can be combined with the Clean Vehicle Rebate Project rebate. Applicants are required to have a registered vehicle that is 2004 or older to return to an authorized dismantler as part of the program.

Low income households may also qualify for the Clean Vehicle Assistance Program offering a \$5,000 rebate, which can be combined with Clean Vehicle Rebate Project rebate.

Not all EVs are the same:

- BEV battery vehicles that run exclusively on electricity from the grid.
- PHEV "Plug-in hybrid" EVs run on electricity for a limited distance before switching to gas/electric mix.
- Hybrids vehicles use a battery to improve overall mileage, but they cannot run on gas.

DRIVE ELECTRIC SAN JOSE

Take advantage of extra discounts on electric vehicles from April 1-June 30

The City of San José, in coordination with Capitol Chevy, Capitol Hyundai, Capitol Kia, Premier Nissan of Stevens Creek and Stevens Creek Kia, is pleased to offer discounts on [nine electric vehicle models](#).

These limited time discounts are available from April 1, 2020 through June 30, 2020.

Stack these dealership discounts on top of existing state, federal, and local rebates for significant savings — up to \$12,500!

[Sign up to receive more information](#) from the dealerships.



Dealer's Tip Sheet

- Overview of electric vehicle benefits
- Overview of tax credits and rebates, updated regularly

Buyer's Roadmap & Guide

- Overview of electric vehicle benefits
- Overview of tax credits and rebates
- How and where to charge

Sanjosecleanenergy.org/drive-electric

- Buyer's Guide
- Access to discount details
- Sign up online portal

Boost Adoption

April 1- June 30, 2020

Additional Savings on Electric Vehicles:

Up to \$13,500 off of MSRP

Test Drive In May!



Drive Electric San José

Save up to \$13,500 on an electric vehicle April 1 – June 30, 2020

Electric vehicles save you money, time, and advance our City's community health and climate goals. Drive electric now!



Help Us Spread the Word!



- **Good for your health, good for the climate!** With no tailpipe emissions, EVs bring cleaner air to your neighborhood.
- **Save money!** EVs have lower fueling and lifetime maintenance costs, including battery replacement.
- **Drive past traffic!** Reduce your commute times with access to carpool lanes using a Clean Air Vehicle decal.
- **Easy charging!** Access over 500 public charging stations and over 50 city charging stations; in addition to network charging all around California.
- **A fun ride!** EVs generally have faster acceleration and lower noise.

A silver Nissan Leaf electric car is parked on a city street. The car is the central focus, with its front and side visible. It has a red license plate that says "PREMIER NISSAN". In the background, there is a modern building with a large glass dome structure. The scene is set during the day with some trees and a clear sky.

Thank You!

Contact Information:

Emily Breslin

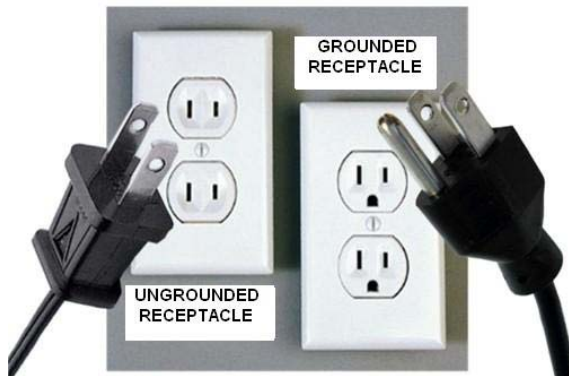
[*Emily.Breslin@sanjoseca.gov*](mailto:Emily.Breslin@sanjoseca.gov)

[**www.sanjosecleanenergy.org/drive-electric**](http://www.sanjosecleanenergy.org/drive-electric)

Appendix

Installing a home charger

1. Remember: Level 1 & 2 only for charging at home

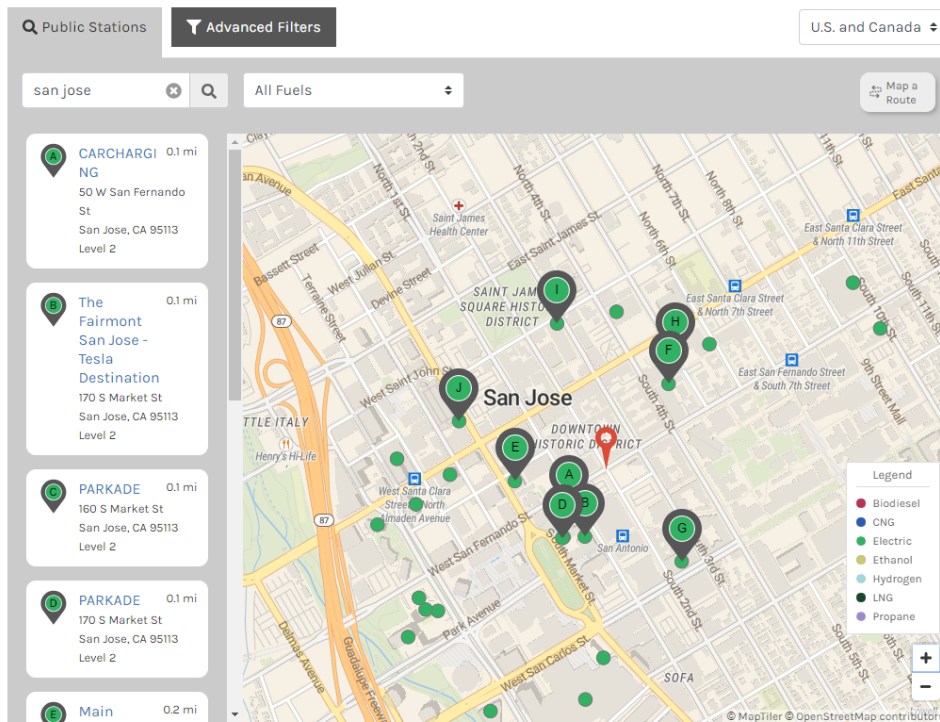


Level 1 (Basic) | 8-15 hours for a full charge
For level 1, you'll need to identify where your outlets are. Will you be parking within 15-25 feet of a properly grounded 3-prong outlet? If so, you're ready to plug in.

Level 2: 3-9 hours | 3-6 hours for a full charge

For level 2 (240 volts), you'll need to hire an electrician as a standard wall outlet only provides 120 volts.

Finding chargers away from home: **search online**



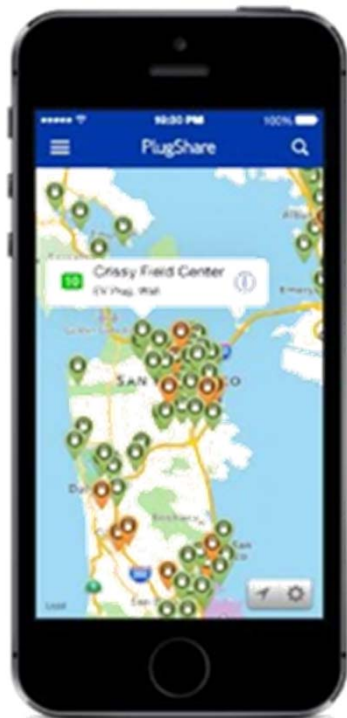
Search for chargers near you by visiting these websites:

<https://www.plugshare.com/>

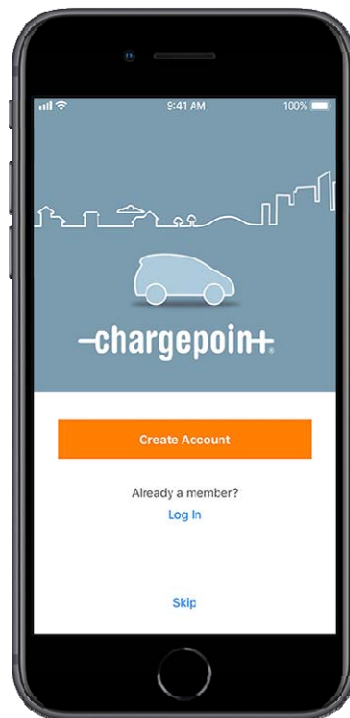
<https://chargehub.com/en/countries/united-states/california/>

<https://afdc.energy.gov/stations/#/find/nearest>

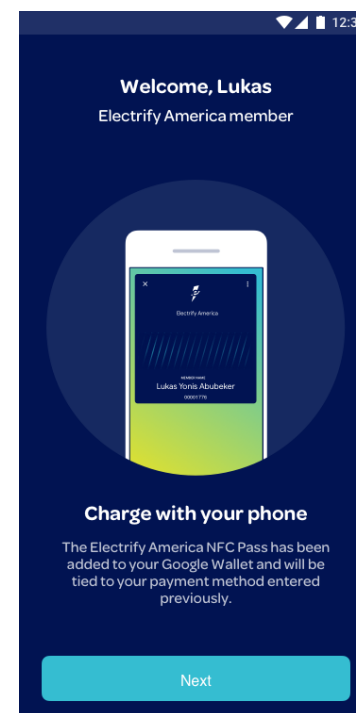
Finding chargers away from home: **install charging apps on your phone**



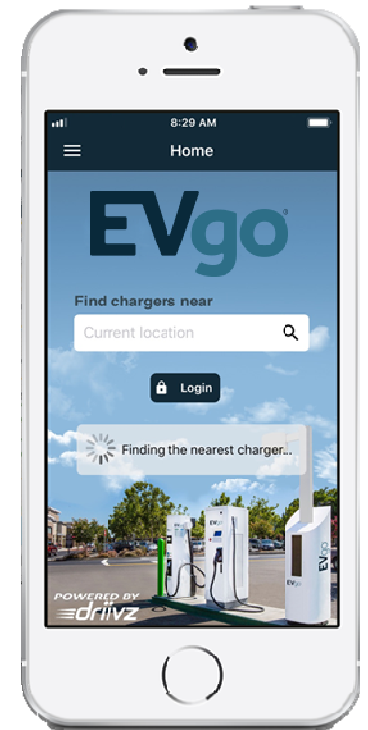
PlugShare



ChargePoint



Electrify America



EVgo

Maximizing range



Cold weather

EVs deliver peak performance between 60-80 degrees Fahrenheit, perfect for San Jose.



Driving uphill

Regenerative braking means about half of the energy used to get up the hill will be recovered going downhill. Higher torque means electric vehicles don't have any trouble accelerating up steep grades.



AC & heating

Blasting your vehicle's heating and air conditioning systems can sap fuel. During hot or cold days, you should first try getting to a comfortable temperature by using your car's ventilation system to cool or warm the cabin.



What is the optimal speed for an EV?

Electric vehicles perform better on city streets versus highways. Use cruise control on the highway as it is more efficient than modulating between speeds.

Getting your HOV sticker



How to get it

Print out the “application for clean air vehicle decals” available online at DMV.ca.gov, post to the address listed at the top of the application.

When

If you just purchased the vehicle from a dealership, you must wait until transfer of ownership is completed by DMV.

How long it lasts

All HOV stickers expire on January 1, four years after they were first issued.