

ELECTRIC VEHICLE AND ELECTRIC VEHICLE
SUPPLY EQUIPMENT

RESOURCE GUIDE

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NOTES

First-time electric vehicle (EV) purchasing



Thinking about going electric? Check out these top questions from first-time EV buyers in LA to help you make an informed and confident choice.

What incentives are available for purchasing an electric vehicle in Los Angeles?

You may be eligible for assistance through programs such as Access Clean California, federal tax credits up to \$7,500, California's Clean Vehicle Rebate Project (CVRP), and LADWP's Used EV Rebate of up to \$2,500. Additional incentives may apply based on income and vehicle type.

Where can I charge my EV in Los Angeles?

LA has thousands of public charging stations, including fast chargers. Use apps like PlugShare, ChargePoint, or the Department of Energy's locator to find nearby options. Many parking lots, grocery stores, and shopping centers also offer EV charging.

Can I charge my EV at home?

Yes! Most EV owners charge at home overnight using a standard 120V outlet (Level 1) or a faster 240V outlet (Level 2). LADWP offers rebates to help cover installation costs for Level 2 chargers.

How far can EVs travel on a full charge?

Range varies by model, but most modern EVs can travel between 150–350 miles per charge—more than enough for daily LA commutes and weekend getaways.

Is driving an EV really cheaper than a gas car?

Yes. EVs have lower fuel costs, fewer maintenance needs (no oil changes), and often qualify for carpool lane access, which can reduce commute time.



What are the average annual and lifetime maintenance costs of an EV vs. a gas-powered car? On average, annual maintenance cost for EVs are around \$900. The annual maintenance for gas cars is around \$1,300–\$1,500.

Are EVs and Plug-In Hybrids eligible for HOV lanes, and for how long?

Yes! In California, eligible EVs and plug-in hybrid electric vehicles can access HOV (carpool) lanes even with just one occupant, thanks to the Clean Air Vehicle (CAV) Decal Program run by the DMV. As of now, if you're a Los Angeles resident with an eligible clean vehicle and you apply for and receive the red CAV decal, you're allowed to drive solo in carpool lanes until September 30, 2025.

What is the lifespan of an EV battery?

Most EV batteries last 8–15 years and come with manufacturer warranties. Battery technology is improving rapidly, and replacements are becoming more affordable.

Can renters or apartment dwellers own an EV?

Absolutely. Look for buildings with shared EV charging, or check local programs that support charger installations in multi-unit dwellings.

How can I test drive or learn more about EV models?

Many dealerships in LA offer EV test drives. You can also attend community ride-and-drive events or visit local EV expos to compare models and ask questions.

Electric vehicle rebates



ACCESS CLEAN CALIFORNIA

- Eligibility: California residents seeking help navigating EV-related programs
- Incentive Amount: Personalized guidance on how to stack rebates, incentives, and clean transportation programs--up to \$12,000 in grants/rebates
- Deadline: Ongoing
- Website Information: accesscleanca.org



ALTERNATIVE FUEL INFRASTRUCTURE TAX CREDIT

- Eligibility: Installation of a qualified residential charging station
- Incentive Amount: Up to \$1,000 tax credit
- Deadline: Ongoing (subject to federal legislation)
- Website Information: afdc.energy.gov/laws/10513



CHARGE UP LA! RESIDENTIAL

- Eligibility: LADWP customers; additional benefits for income-qualified participants
- Incentive Amount: Up to \$1,000 for a qualified Level 2 charger
- \$250 for installing an EV meter. Additional \$500 for participants in assistance programs
- Deadline: Ongoing
- Website Information: ladwp.com/residentialevrebate



REPLACE YOUR RIDE (ADMINISTERED BY VARIOUS AIR DISTRICTS)

- Eligibility: Residents with qualifying older vehicles in eligible air districts
- Incentive Amount: Up to \$12,000 toward the purchase of a new or used EV
- Deadline: Ongoing, while funds last
- Website Information: replaceyourride.com



LADWP USED ELECTRIC VEHICLE REBATE PROGRAM

- Eligibility: LADWP customers who purchased a used EV within the past 12 months
- Incentive Amount: Up to \$1,500 rebate. Up to \$4,000 for income-qualified customers in assistance programs
- Deadline: Ongoing
- Website Information: ladwp.com/usedevrebate



RESIDENTIAL EV CHARGING INCENTIVE PROGRAM (ADMINISTERED BY SCAQMD)

- Eligibility: Residents within South Coast AQMD's four-county region
- Incentive Amount: Up to \$250 rebate (or the cost of charger). Up to \$500 for qualified residents
- Deadline: Ongoing, while funds are available
- Website Information: aqmd.gov/evchargingrebate



SOUTHERN CALIFORNIA EDISON PRE-OWNED EV REBATE

- Eligibility: SCE customers who purchase or lease a qualifying pre-owned EV
- Incentive Amount: \$1,000 rebate. Income qualified participant receive up to \$4,000.
- Deadline: Ongoing
- Website Information: evrebates.sce.com



COUNTY OF LOS ANGELES PLUG2POWER CHARGING INCENTIVE PROGRAM

- Eligibility: Resident of Los Angeles County, over 18 years old
- Incentive amount: \$20 credit on PowerFlex charging
- Deadline: Ongoing
- Website Information: (Reference the QR code to the right)



For full details, eligibility requirements, and the most up-to-date information, please visit each program's official website.

Powering Your Journey: **Electric Vehicle (EV) Charging Stations**



Charging your electric vehicle (EV) is more convenient than ever with options at home, work, and public spaces. Whether you're planning an overnight charge, boosting your range during the workday, or recharging on the go, there's a solution to fit your needs.

HOME CHARGING

Charge overnight using a Level 1 (standard outlet) or Level 2 (faster home charger).

- More affordable than public charging
- Lets you set a consistent charging routine
- Perfect for waking up to a full battery every day



WORKPLACE CHARGING

Some employers provide EV charging stations in parking areas.

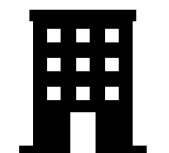
- Convenient way to add miles while you work
- Supports EV ownership
- Helps reduce emissions from your daily commute



PUBLIC CHARGING

Available at shopping centers, restaurants, parking garages, and along highways.

- Great for quick, on-the-go top-ups
- Includes Level 2 chargers (moderate speed) and DC Fast Chargers, which can give you a significant charge in under an hour



Tap, Pay, Go: Effortless EV Charging Payments



Charging your EV can be affordable with the right strategy. Knowing your options, from home setups to premium fast-charging stations, helps you balance cost and convenience.

HOME CHARGING (LEVEL 1)

- Cost: \$0.10–\$0.20 per kWh
- Estimated Full Charge: \$5–\$15
- Best for overnight charging at home, depending on battery size and local electricity rates

PUBLIC LEVEL 2 CHARGING (COMING BY 2026)

- Cost: \$0.20–\$0.45 per kWh
- Estimated Full Charge: \$10–\$20
- Ideal for longer stops—available at workplaces, shopping centers, and public parking lots

DC FAST CHARGING (LEVEL 3)

- Cost: \$0.30–\$0.60 per kWh
- Partial Charge Estimate: \$15–\$30
- Best for quick top-ups during travel or busy days

WAYS TO PAY

- Pay-as-you-go at the station
- Membership with networks like ChargePoint, EVgo, and Electrify America
- Tap to pay using a mobile wallet

Electric Vehicle (EV) Charging Basics



Take Charge is expanding public EV charging in East LA, focusing on a 1.5-mile radius around the Ramona Gardens community. As part of the Take Charge initiative, Level 2 chargers will be installed at key hubs, including parks, public buildings, and mixed-use areas, with completion set for 2026.

LEVEL 1: STANDARD OUTLET

This is the basic charger that comes with most electric vehicles. It plugs into a standard 120-volt wall outlet, such as the ones in your home. Level 1 chargers are effective for overnight or workplace charging. Ideal for typical commutes (up to 40 miles).

LEVEL 2: 240-VOLT OUTLET

This uses a 240-volt outlet, such as the one your laundry dryer might use. It's faster than Level 1, giving you approximately 125 miles of range in about 5 hours. **Slated for installation: 2026***



4-8 hours empty to full charge



Gain 25 miles
of range per hour of charging

LEVEL 3: DC FAST CHARGERS

These chargers are found at public stations and give you a huge boost quickly. They use direct current (DC) and can charge your car to 80% in 15 to 60 minutes. There are three different connectors depending on the vehicle model.

EV Safety: Powering Protection on the Road



Electric vehicles (EVs) are not just cleaner—they're designed for safety. **EVs keep you secure on the road from crash resilience to fire prevention and pedestrian protection.**

- Electric vehicles (EVs) often perform better in crash tests due to their heavier weight and low center of gravity, which reduces the risk of rollovers and improves overall vehicle stability (U.S. News & World Report, NHTSA).
- EVs experience significantly fewer fires compared to gasoline and hybrid vehicles. Advanced thermal management systems are implemented by manufacturers to prevent battery overheating and enhance safety (CarEdge, NTSB).
- While EVs are quieter at low speeds—potentially increasing pedestrian collision risk—U.S. regulations require EVs to emit artificial sounds when traveling under 18.6 mph to ensure pedestrian awareness and safety (NHTSA, Journal of Epidemiology & Community Health).



**Improved Crash
Safety**



**Reduced Fire
Risk**



**Pedestrian Safety
Measures**

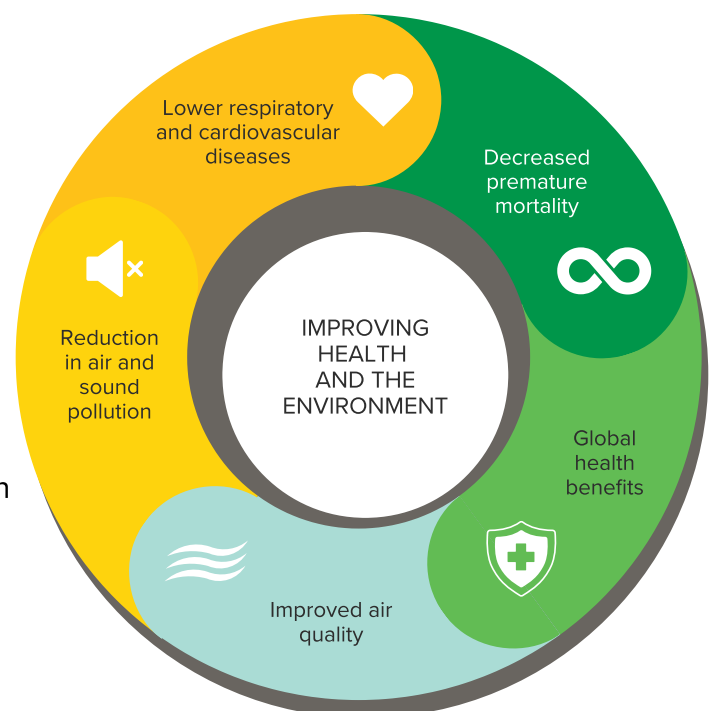
For more information on EV safety standards and best practices, visit [NHTSA.gov](https://www.nhtsa.gov).

The Environmental and Health Perks of **Driving Electric Vehicles**



Transitioning to electric vehicles (EVs) offers **significant health benefits** in both the **short and long term**.

- **Improved Air Quality and Health:** Electric vehicles (EVs) eliminate tailpipe emissions, reducing air pollution and lowering rates of respiratory and cardiovascular diseases, as well as premature mortality (California Air Resources Board).
- **Reduction in Emergency Room Visits:** A 2023 study published in *Science of The Total Environment* found that increased EV adoption in California is linked to a decline in asthma-related emergency room visits, demonstrating direct public health benefits (Garcia et al., 2023).
- **Enhanced Urban Living:** The International Energy Agency reports that widespread EV adoption improves health outcomes and contributes to quieter, more livable cities, enhancing overall quality of life (International Energy Agency).





Electric vehicle chargers are coming to your community, and we want your input.

The Take Charge initiative will install chargers at community hubs around East Los Angeles neighborhoods including parks, public buildings, and mixed-use areas, with completion expected in 2026. mGRID Alternatives Greater Los Angeles and the William C. Velasquez Institute (WCVI) will lead community outreach and gather your input on charger locations.

PROJECT BENEFITS:

- More EV chargers in East LA neighborhoods
- Support for cleaner air and less pollution in East Los Angeles
- Accessible charging for everyone
- Information on EV incentive and rebate programs from Access Clean California, SCE, and LADWP
- Promotion of cleaner transportation in communities

SHARE YOUR VOICE



Take the survey and enter a raffle to win a \$50 gift card!

The QR code is provided by LA County and will not collect any of your information.

Questions? Contact Nestor Cruz at ncruz@gridalternatives.org.