Agenda

Charging
● At home
● At work
● On the road
● During a PSPS

Clean, Affordable Electricity

Incentives

Ask Me Anything EV
Your Climate Impact

Carbon Emissions
Air Pollution
Your GHG Emissions

Source: CA Air Resources Board

424.1 MMTCO$_2$e
2017 TOTAL CA EMISSIONS
Charging Overview

Level 1
- 120V
- Charge/Hour: 3-6 miles

Level 2
- 240V
- Charge/Hour: 22-30 miles

Level 3
- Fast Charge
- Charge: 10-80% in 30 mins or less
Level 1 Charging - 120V outlet

- Low cost and easy
- Enough for most 25-40 miles overnight
- Plug in nightly with a PHEV
Level 2 Charging - 240V outlet

- Consult with electrician - assess the cost
- Research home charging stations
- Get the maximum amps
- https://homecharging.electricforall.org/

![Image of a house with a charging station]
Smart Splitters

- Safety Devices
- Share a Circuit
  - With an appliance
  - Between two cars
Plug Into Clean Energy

- Rooftop Solar
- Clean Energy Plan
Plug into Affordable Energy - EV2 - A

ev.pge.com/rates
Charging Routine

- Program your car timer for off-peak charging
- Set your charging to 80% of battery capacity
- Plug in your PHEV!
Charging at Work

- Use as primary charging source or boost your range
- Check employee EV benefits
- Advocate for charging at work
EV Ownership at a Multi-Family Property

- Charge on 120V
- New Smart Outlets
- Charge at work
- Use public chargers
- Sign up for EVmatch
- Advocate!
Smart Outlets

- Inexpensive charging solution
- Ideal for Multi Unit parking spaces
- Individuals pay for their EV Charging
- Handles billing for power used
Charging on the Road
Public Charging Tips

- Speed of charging depends on car and charger speed
- Unlock car to release your charger
- Watch out for the linger fee
- The fuller the battery, the slower the charge
Low Battery = Faster Charge

The Power of EV Charging Isn’t Necessarily What’s Advertised
Actual power of charging depends on how full the car’s battery is

Source: BloombergNEF, Aat De Kwaasteniet.
Note: Charging power will also vary based on battery size of the specific model and temperature.
Navigation Apps

PlugShare
Charging Networks

**Protip**: Practice public charging locally before heading out on a road trip.
Power Up With an EV During Power Outages
EV - Lower Total Cost of Ownership

Electric Vehicle ownership is $3,984 less to own over 5 years

Electric Vehicle
- Vehicle net incentives
- Electricity
- Gasoline
- Maintenance
- Insurance

Similar Gas Vehicle
- Vehicle net incentives
- Electricity
- Gasoline
- Maintenance
- Insurance

$0 $5,000 $10,000 $15,000 $20,000 $25,000 $30,000 $35,000

$27,612

$31,596

*This example assumes 12,000 annual miles and the price of gasoline at $3.50/gallon.
Standard Incentives for EVs

Save up to $9,500 and more if your income qualifies!

Incentives

- **CA State Rebate** - Clean Vehicle Rebate Project - $2,000
- **Federal Clean Vehicle Tax Credit** - against tax liability
  - New EVs - up to $7,500
  - Pre-Owned EVs - 30% of cost up to $4,000
- **Home Charging Federal Tax Credit** - 30% of cost up to $1,000
- **Utility and CCA Incentives**

Savings Calculators

- ev.pge.com/incentives
- plugstar.com/tools/incentives

https://rideanddriveclean.org/electric-vehicle-incentives/
California State Rebate
Clean Vehicle Rebate Program (CVRP)

● Apply within 3 months of taking delivery of your new car
● Standard Rebate for EVs - $2,000
● Standard Rebate for PHEVs (with over 30 electric miles) - $1,000
● Online or Mail-in Application - receive a check in the mail
● Exclusions
  ○ EVs - MSRP over $45K (smaller EVs) / $60K (larger EVs)
  ○ Income - over $135K Individual / $200K Joint
● Income Qualified - Up to $7,500
● Cleanvehiclerebate.org
Clean Vehicle Credit: Before April 18

● Purchase a New EV - Up to $7,500 against your tax liability
● Requirements For New EVs:
  ○ Purchase/Finance a New EV
  ○ Final assembly in North America
  ○ Vehicle price limits:
    ■ $80,000 - SUVs, vans, pick-up trucks
    ■ $55,000 - Smaller vehicles
  ○ Income limits (may use current or prior year tax returns):
    ■ Single - $150K, Head of HH - $225K, Joint - $300K
● Check which vehicles qualify: https://www.fueleconomy.gov/
Federal Clean Vehicle Credit: Qualifying EVs Delivered from Jan 1 - April 17

- Audi Q5 TFSI e Quattro PHEV
- BMW (330e PHEV, X5 xDrive45e PHEV)
- Ford (Escape PHEV, F-150 Lightning, Mustang Mach-E, Lincoln Aviator & Corsair Grand Touring, E-Transit)
- GM (Chevy Bolt EV, Chevy Bolt EUV, Cadillac Lyriq)
- Nissan (Leaf, Leaf Plus)
- Rivian (R1S, R1T)
- Stellantis (Chrysler Pacifica PHEV, Jeep Wrangler & Cherokee 4XE PHEV)
- Tesla (Model 3, Model Y)
- Volkswagen ID.4
- Volvo S60 PHEV

Note: because of the price cap, not all trim packages qualify
Clean Vehicle Credit: As of April 18

- Purchase a New EV - Up to $7,500 against your tax liability
- Requirements For New EVs:
  - Purchase/Finance a New EV
  - Final assembly in North America
  - Vehicle price limits:
    - $80,000 - SUVs, vans, pick-up trucks
    - $55,000 - Smaller vehicles
  - Income limits (may use current or prior year tax returns):
    - Single - $150K, Head of HH - $225K, Joint - $300K
  - Critical mineral & battery components
    - $3,750 - Critical mineral requirement
    - $3,750 - Battery component requirement
- Check which vehicles qualify: https://www.fueleconomy.gov/
Federal Clean Vehicle Credit: Qualifying EVs Delivered After April 17

- Cadillac Lyriq - $7,500
- Chevy Bolt EV/EUV - $7,500
- Chevy Blazer, Equinox, Silverado - $7,500
- Chrysler Pacifica PHEV - $7,500
- Ford Escape PHEV - $3,750
- Ford F-150 Lightning - $7,500
- Ford Mustang Mach-E - $3,750
- Jeep Wrangler & Cherokee 4XE PHEV - $3,750
- Lincoln Aviator Grand Touring - $7,500
- Lincoln Corsair Grand Touring - $3,750
- Rivian R1S and R1T - $3,750
- Tesla Model 3 & Y - $7,500 except standard Model 3 - $3,750
- Volkswagen ID.4 - $7,500

Note: because of the price cap, not all trim packages qualify
Clean Vehicle Credit

- Lease a new EV - fewer restrictions
  - Dealer may take the credit and pass it on to the customer
  - Verify with dealer or Cartelligent before you sign the lease
- New Pre-Owned EV Credit
  - 30% sale price, up to $4,000 max
  - $25,000 vehicle price cap
  - Purchase from licensed dealer
  - Income limits
    - Single - $75K, Head of HH - $112.5K, Joint - $150K
- In 2024, credit available as upfront rebate
- Check which vehicles qualify: https://www.fueleconomy.gov/
Utility, CCA, and City Rebates

- CCA, Utility, and City Rebates
  - PG&E Pre-Owned EV Rebate - $1,000 - $4,000
  - MCEv - $3500 for income qualified - coming back
  - Peninsula Clean Energy - used EVs
  - Free charging in some cities

- Incentives Calculators:
  - ev.pge.com/incentives
  - plugstar.com/tools/incentives
Clean Air Vehicle Decal - HOV Lane Access

- Eligible for new EVs and some PHEVs - 3 full years
- Cost $22
- Transferable to used cars for remainder of eligibility
- Income qualifying - no expiration for some *used* vehicles
- **Apply** through DMV - Clean Air Vehicle Decal
Ask Me Anything EV
Welcome to Your New Ride!

EV102: New Owner Workshop