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Electric Vehicles in the San Diego Region

October 2019

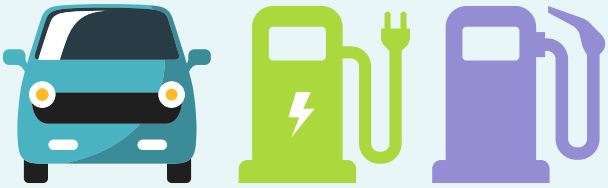
Electric Vehicles and Charging Stations

Electric vehicles (EVs) are catching on with consumers and play a big role in the state of California's plans to cut greenhouse gas (GHG) emissions. With 1.5 million zero-emission vehicles expected on California roads by 2025, and a goal for 5 million by 2030, there is a massive demand for new charging stations.

Converting to Electric Vehicles

EVs come in two types...

battery electric vehicles (BEV)
runs entirely on electricity



plug-in hybrid electric vehicles (PHEV)
have *both* an electric battery and a gas engine

There are many EV models available and plenty of incentives to invest in them. Work is underway to deploy a network of charging stations in the region and the state.

Benefits of Driving an Electric Vehicle

Switching to an EV typically reduces fuel costs by half

Reduced air pollution and GHG emissions

Lower maintenance costs, including no oil changes

Increased energy independence by reducing imported fossil fuels and increasing renewable electricity sources

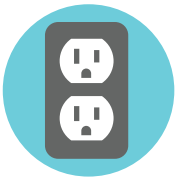
Consumer Incentives

Clean vehicle rebates
up to $4,500 per EV purchased[1]

HOV lane access stickers
Solo EV drivers can use carpool lanes

Federal tax credits
up to $7,500[2]

SDG&E EV rates
Pay lower rates for vehicle charging



Infrastructure Programs

Regional EV Charger Rebate Program
SANDAG, State, and County partners will launch a public charger incentive program in 2020 under CALeVIP

SDG&E
SDG&E will complete the installation of approximately 3,000 charging ports in the near future

1. Rebates based on type of clean vehicle purchased and income eligibility requirements. Applicants with low-to-moderate household incomes are eligible for increased rebate amounts.
2. Once a manufacturer's EV sales exceed 200,000, the available tax credit for that manufacturer enters a phase out period.

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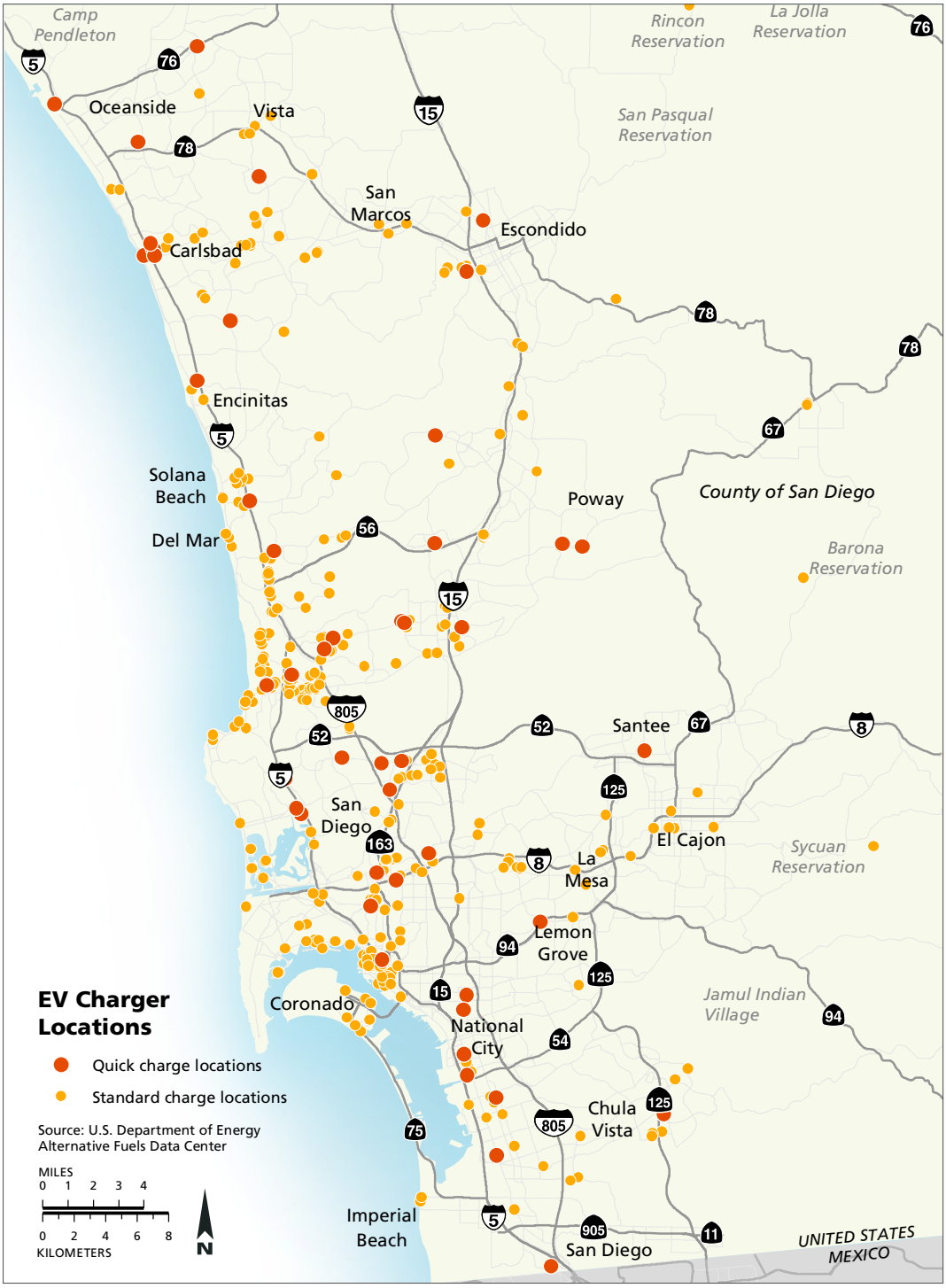
The region and the state are poised for a rapid expansion of EV technology in the next five years. The San Diego region currently is home to about 35,000 EVs, with that number expected to grow to more than 110,000 by 2025. Statewide, the total number of EVs is expected to grow from about 600,000 to 1.5 million in the same time frame. State goals strive for 5 million vehicles on the roads by 2030. There are over 1,500 public charging outlets in the region right now, and that number will likely need to grow by a factor of seven to meet state and regional goals in 2025[1]. Statewide, the number of public charging outlets will need to expand from 20,000 today to 100,000-150,000 in 2025 to satisfy expected growth in EVs and charging demand.



About infobits

SANDAG serves as the region's clearinghouse for information and data. InfoBits publish timely, relevant information informing the public while providing context on complex issues facing the region.
sandag.org

For more information, call (619) 699-1950 or email: pio@sandag.org

1. Numbers do not include in-home charging.

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