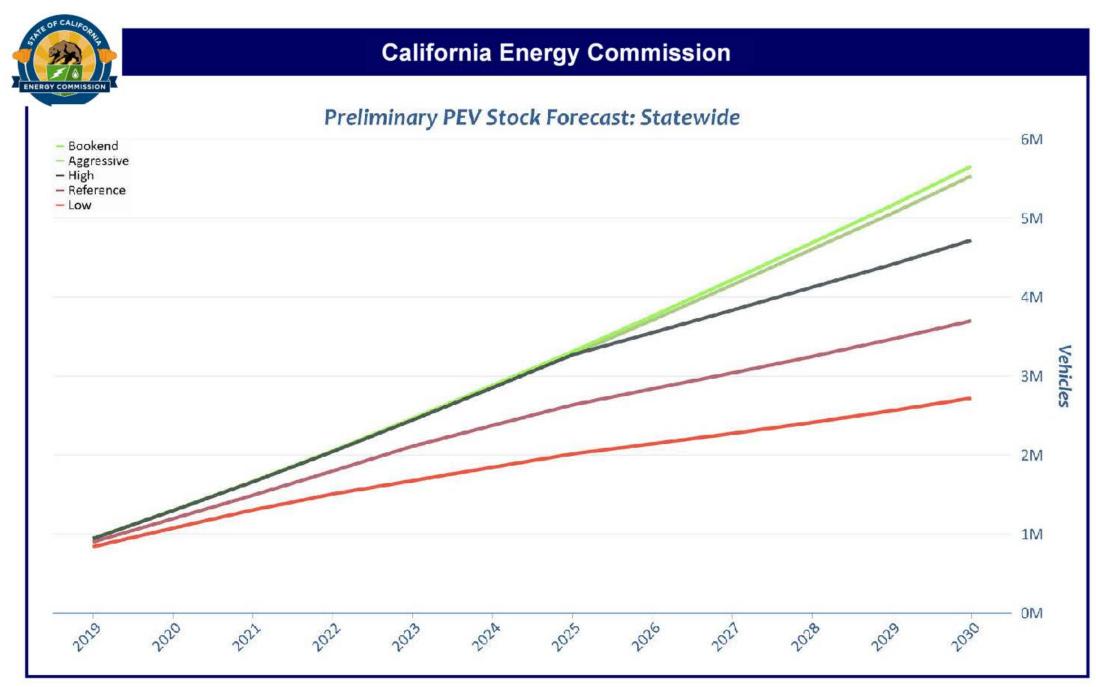


Regional Light-Duty Electric Vehicle Forecast

Mark Palmere
California Energy Commission
Transportation Energy Forecasting Unit
June 14, 2019



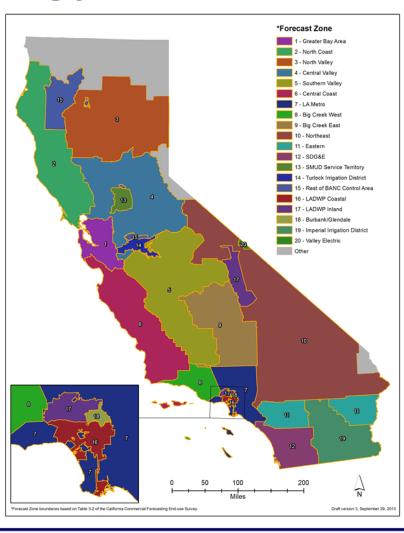


Utility-Specific Calculation

- The latest regional base year data (2017) are used to estimate future PEV stock by zone, using the following models:
 - PHEV = f (Household Population, Income)
 - BEV = f (Household Population, Income)
- The forecasting zones are then aggregated by the major utility serving the zone.



Energy Commission Forecasting Zones





Energy Commission Forecasting Zones



ZONES BY UTILITY

Zones 1-6: PG&E

Zones 7-11: SCE

Zone 12: SDG&E

Zone 13: SMUD

Zones 16-17: LADWP

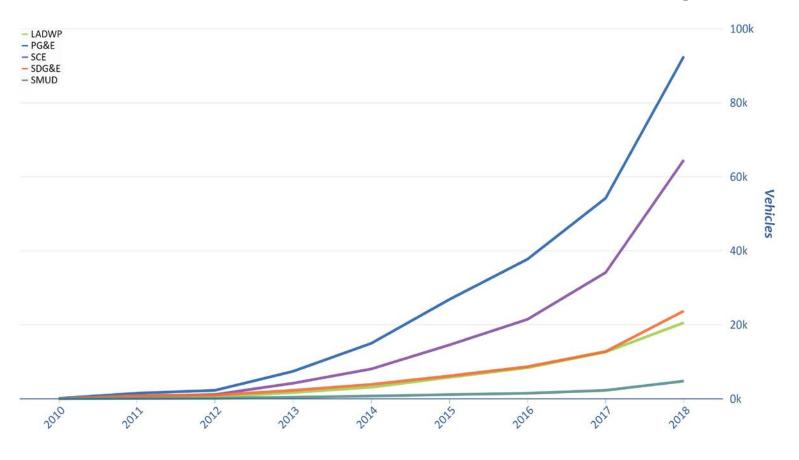
Zones 0,14-15,18-20: Other

(Data Available Individually)



HISTORICAL PEV SALES BY UTILITY

Historical Cumulative BEV Sales by Utility

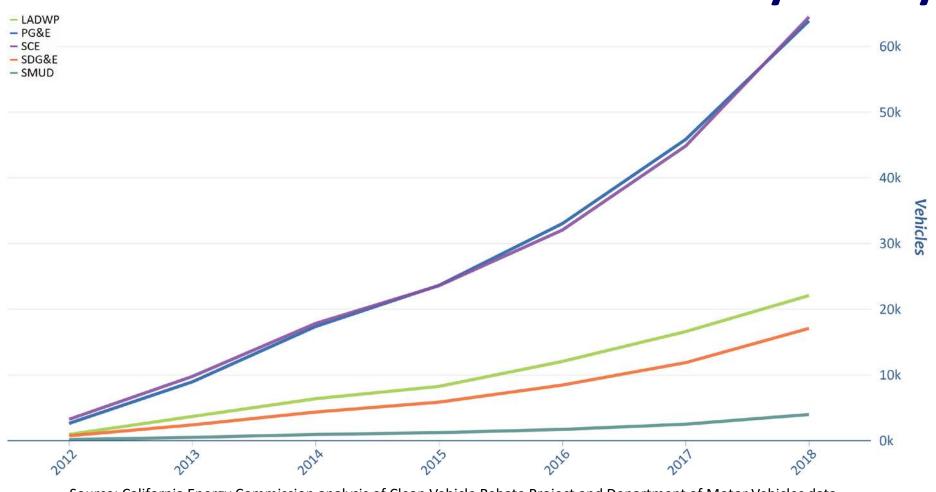


Source: California Energy Commission analysis of Clean Vehicle Rebate Project and Department of Motor Vehicles data

ENERGY COMMISSION

California Energy Commission

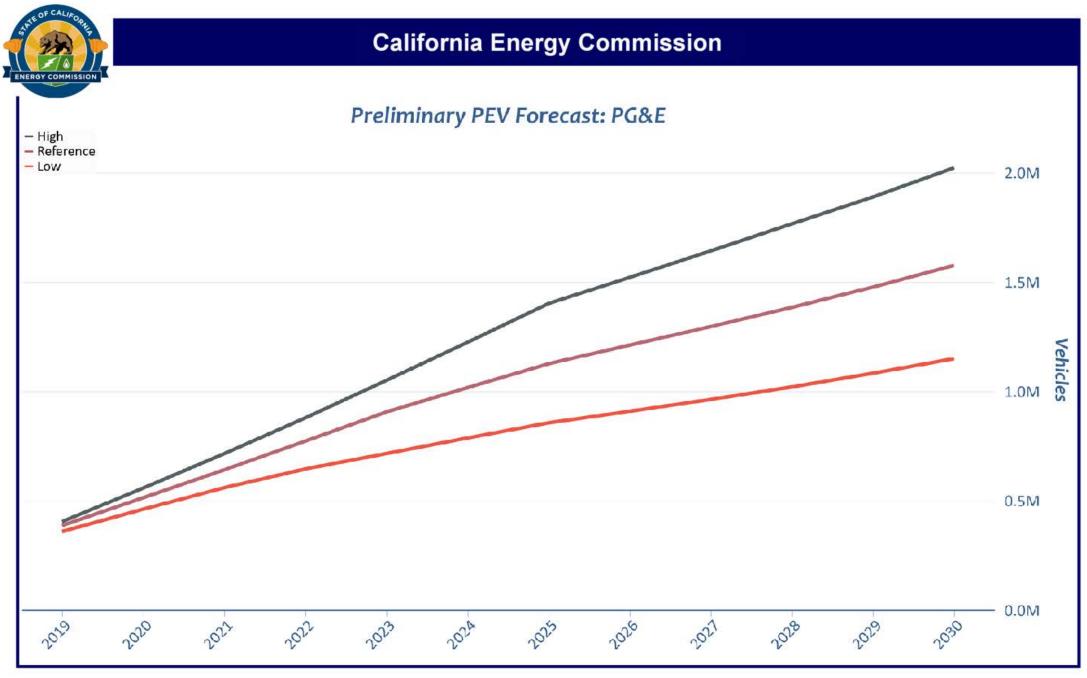
Historical Cumulative PHEV Sales by Utility



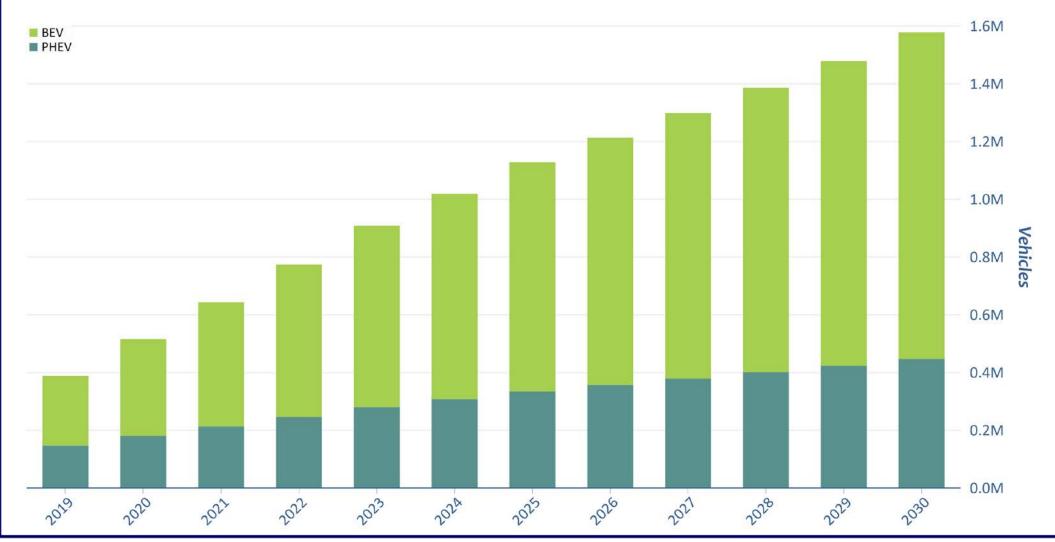
Source: California Energy Commission analysis of Clean Vehicle Rebate Project and Department of Motor Vehicles data

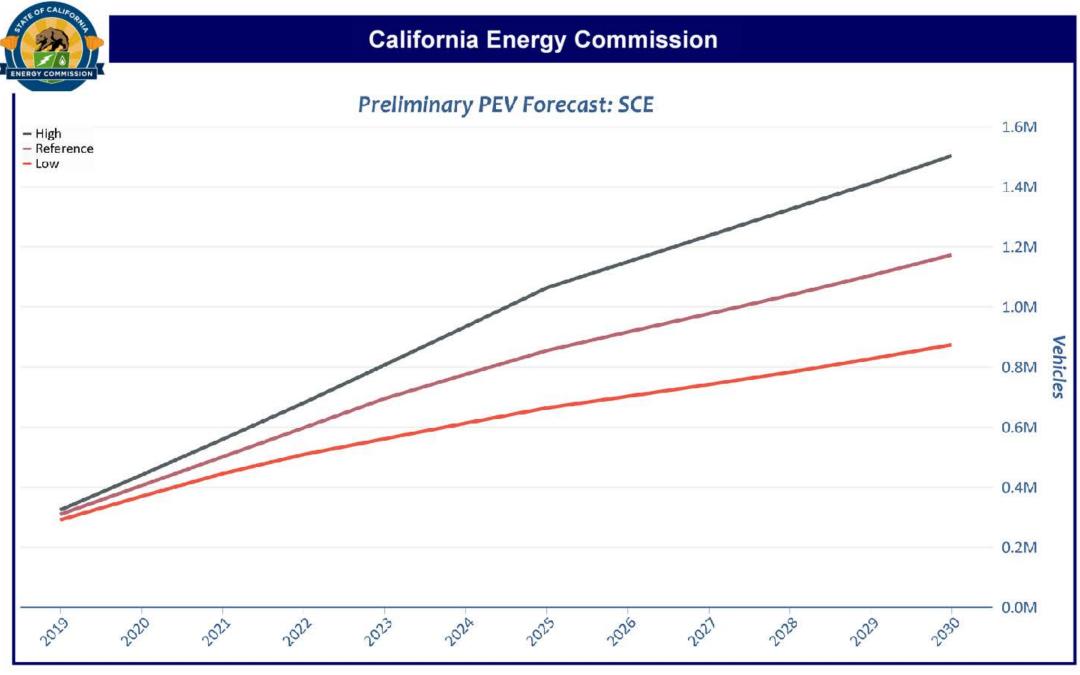


PEV FORECASTS BY UTILITY

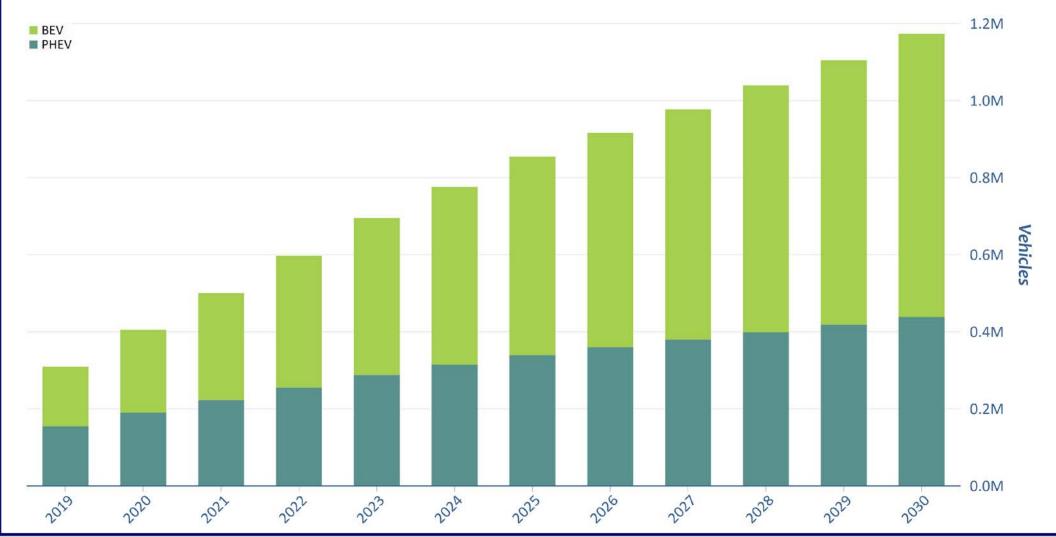


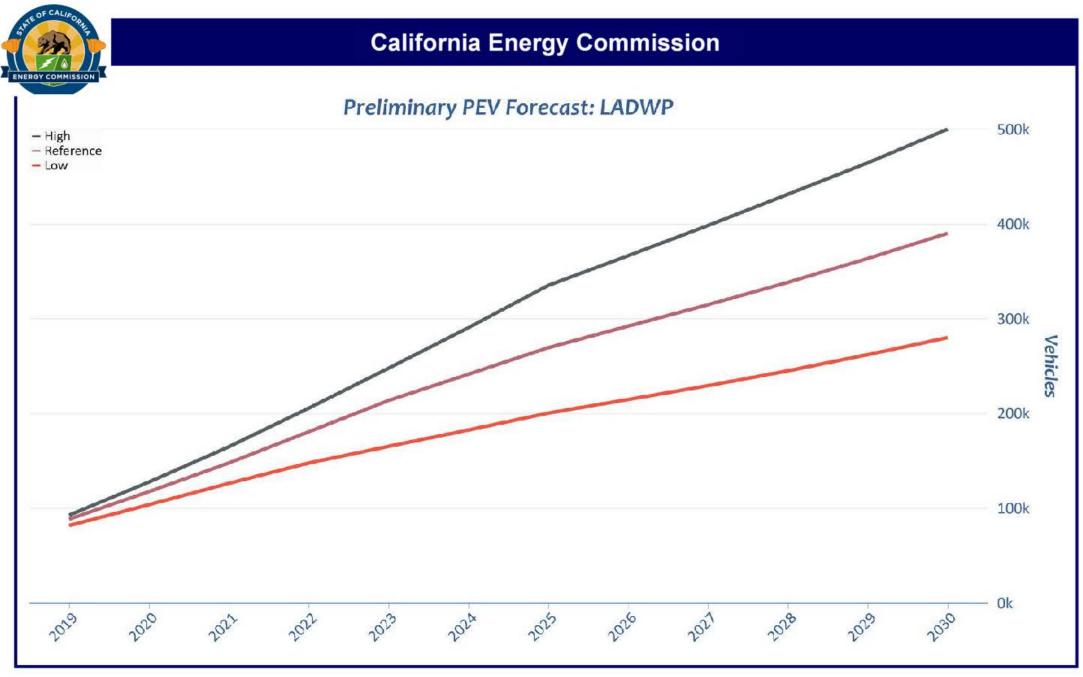
Preliminary Reference Stock Forecast by Fuel Type – PG&E



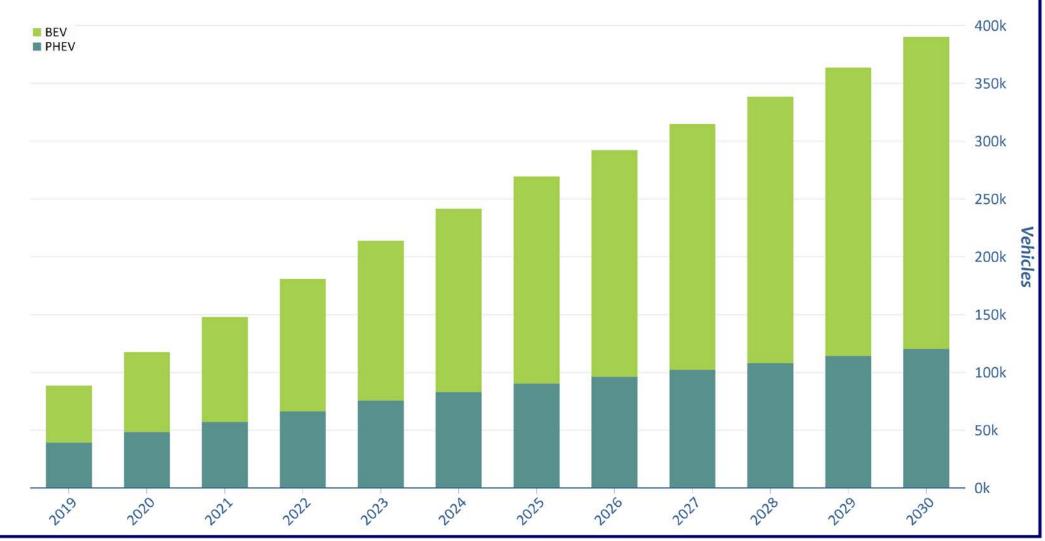


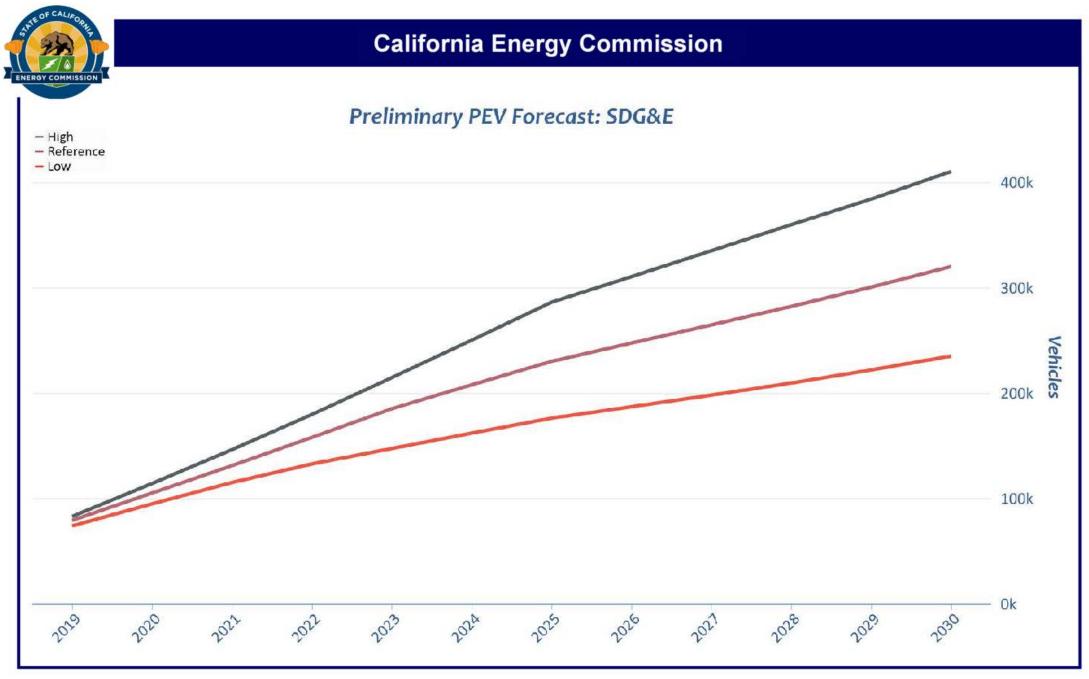
Preliminary Reference Stock Forecast by Fuel Type – SCE



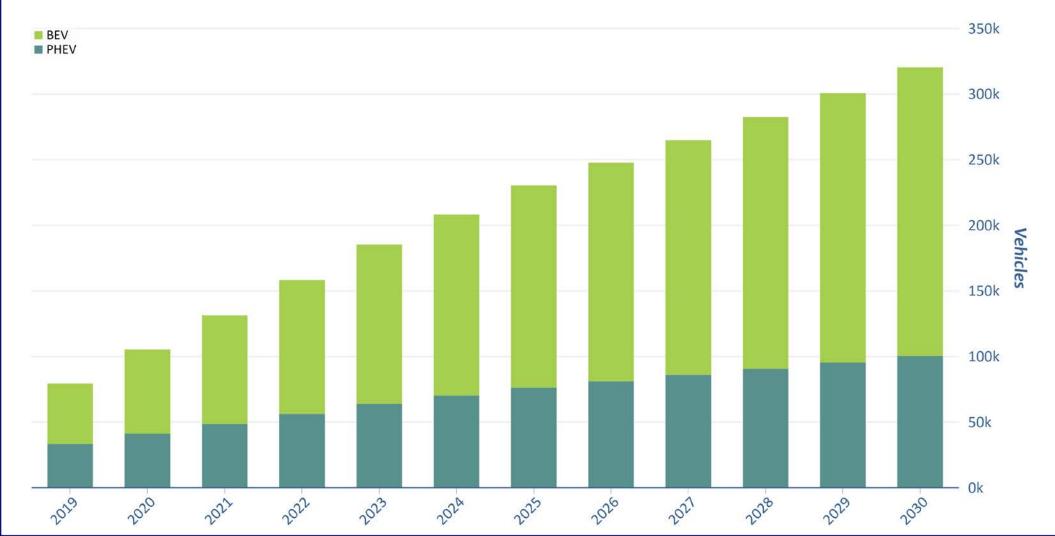


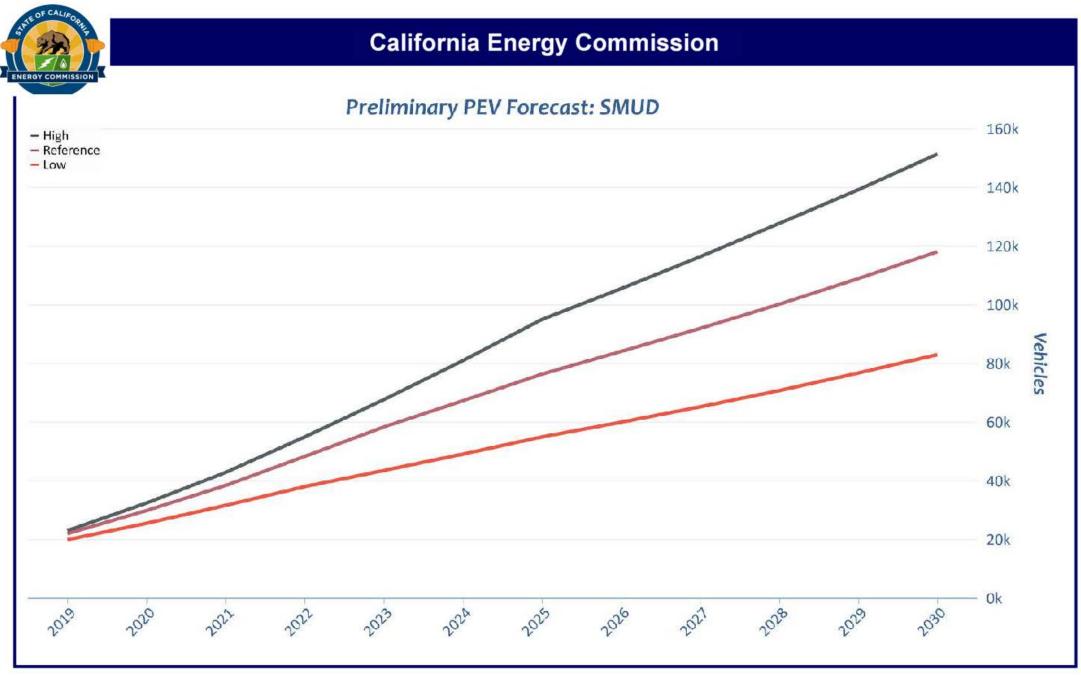
Preliminary Reference Stock Forecast by Fuel Type – LADWP





Preliminary Reference Stock Forecast by Fuel Type – SDG&E





Preliminary Reference Stock Forecast by Fuel Type – SMUD

