



Regional Light-Duty Electric Vehicle Forecast

Mark Palmere

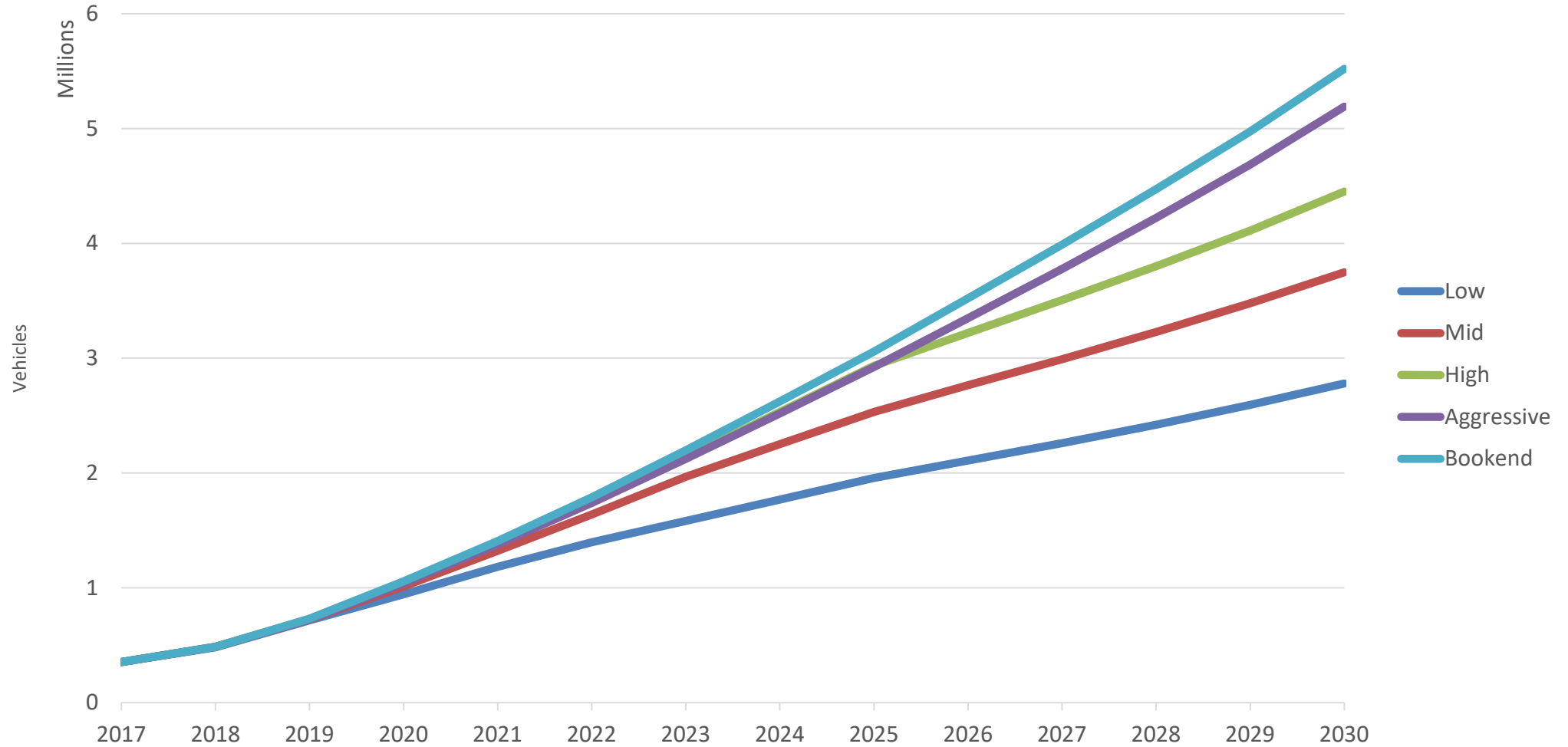
California Energy Commission

Transportation Energy Forecasting Unit

November 14, 2019



Revised PEV Stock Forecast: Statewide



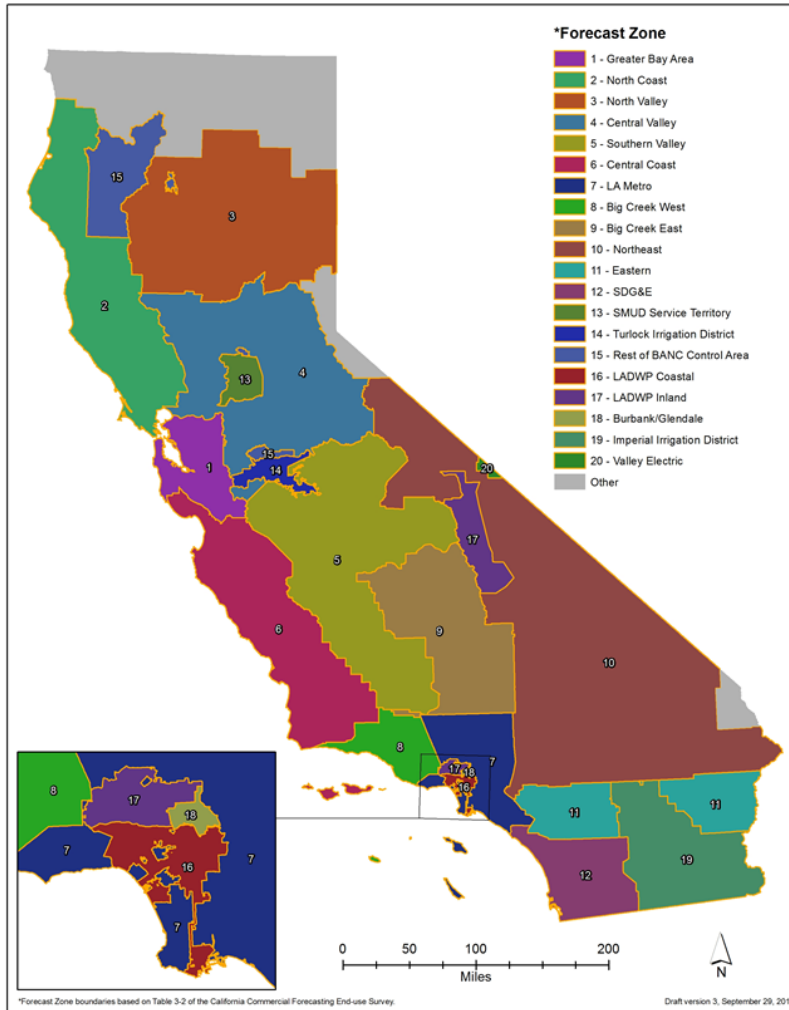


Utility-Specific Calculation

- The latest regional base year data (2018) are used to estimate future PEV stock by zone, using the following models:
 - $PHEV = f(\text{Household Population}, \text{Income})$
 - $BEV = f(\text{Household Population}, \text{Income})$
- The forecasting zones are then aggregated by the major utility serving the zone.

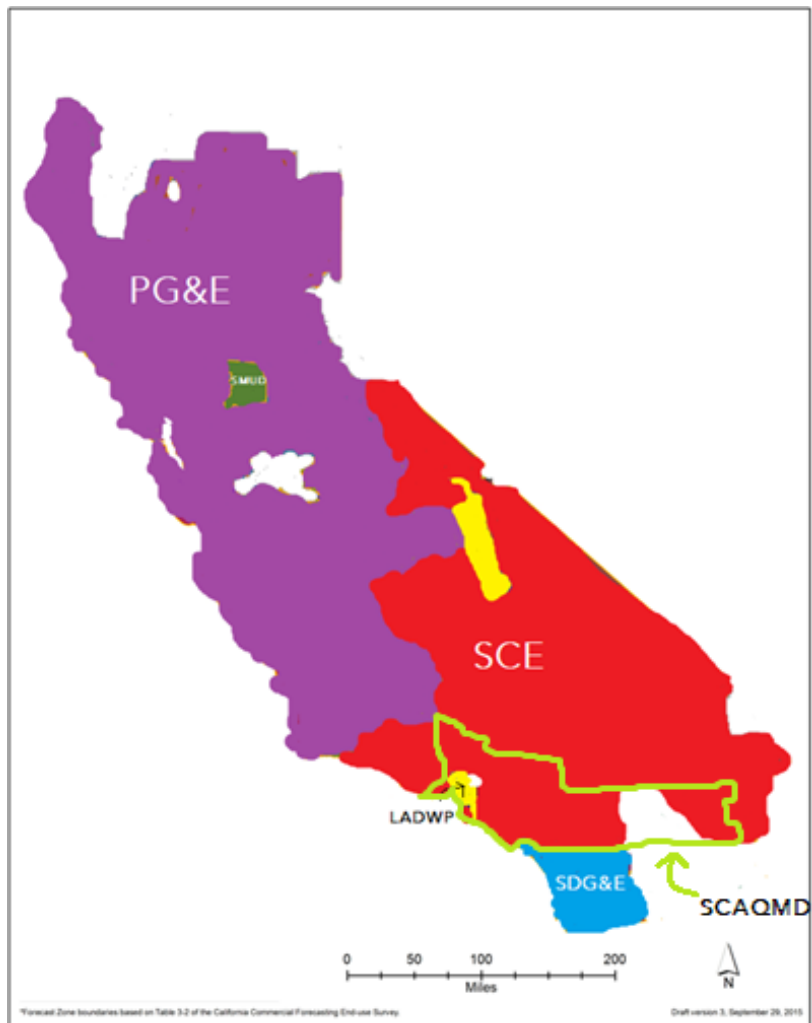


Energy Commission Forecasting Zones





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

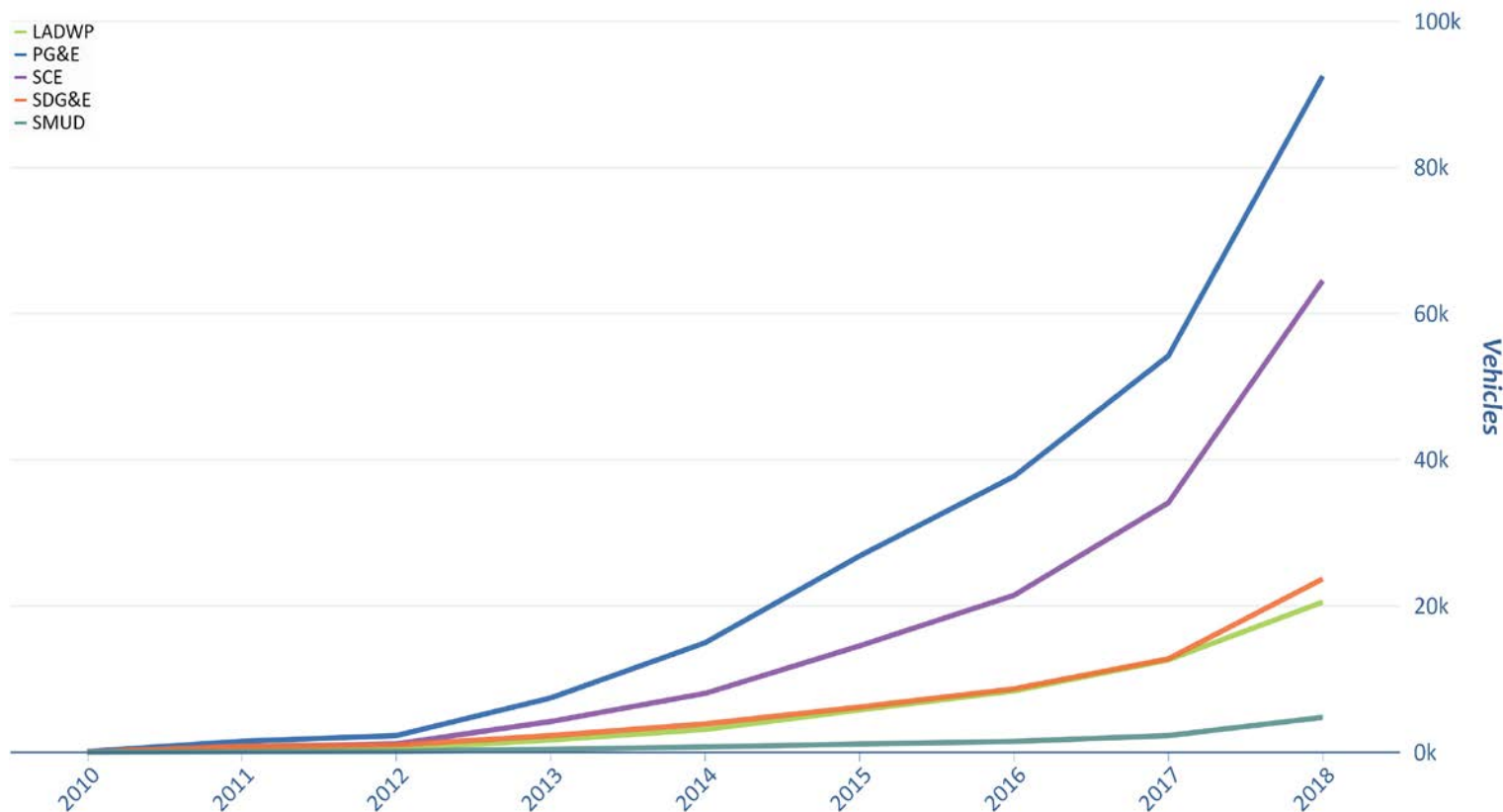
Zones 0,14-15,18-20: Other
POUs (Data Available Individually)



HISTORICAL PEV SALES BY UTILITY



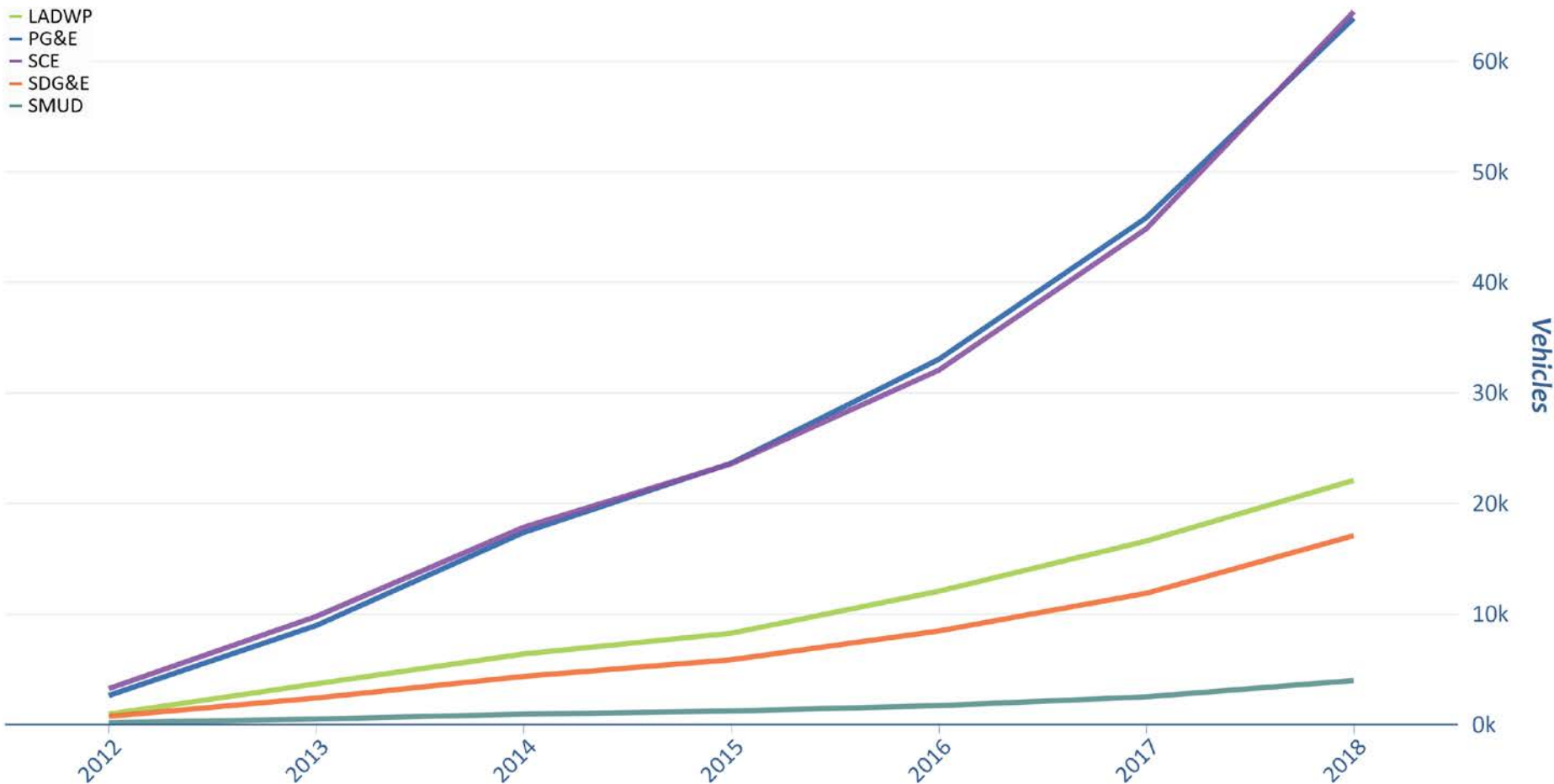
Historical Cumulative BEV Sales by Utility



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



Historical Cumulative PHEV Sales by Utility



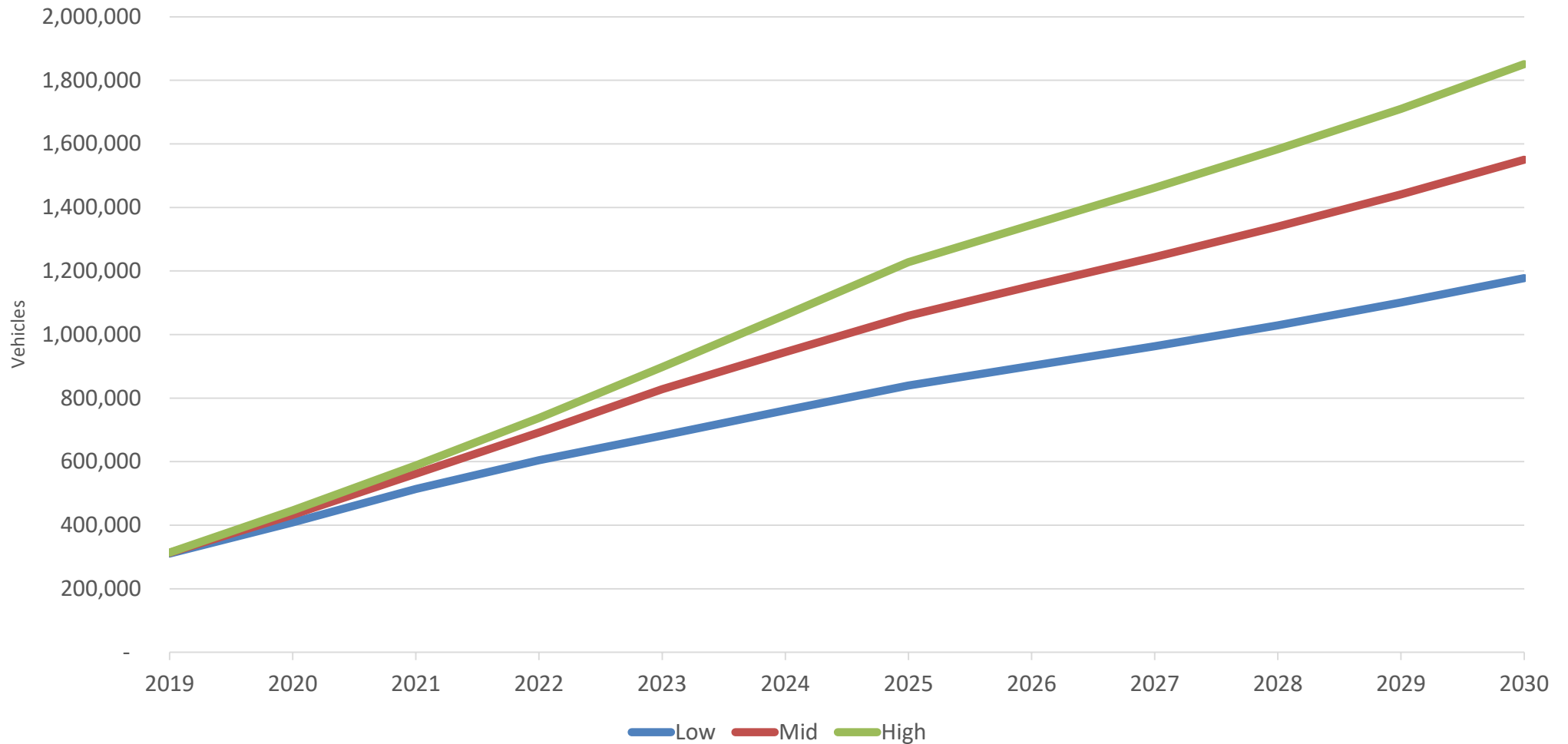
Source: California Energy Commission analysis of Clean Vehicle Rebate Project and Department of Motor Vehicles data



PEV FORECASTS BY UTILITY

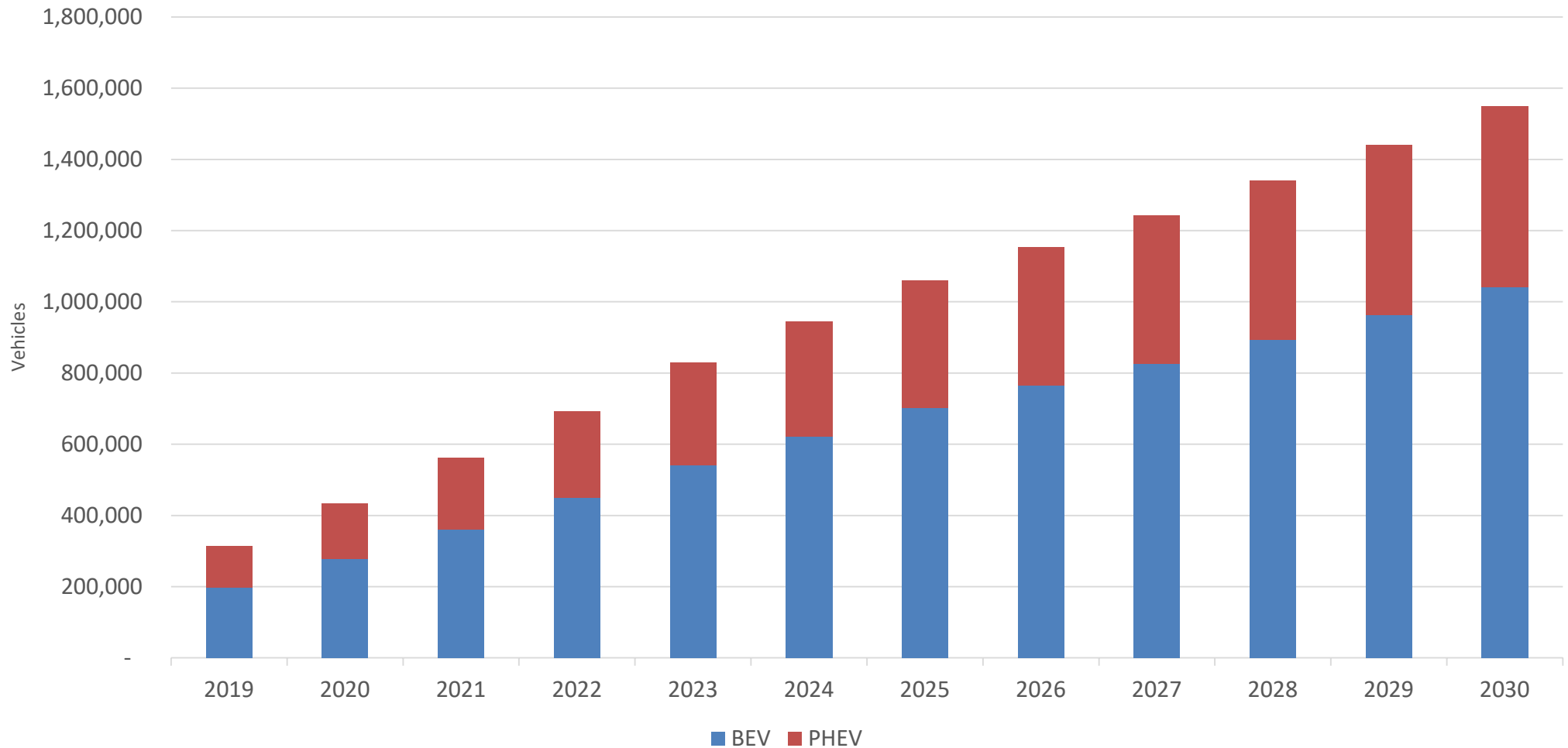


Revised PEV Forecast: PG&E



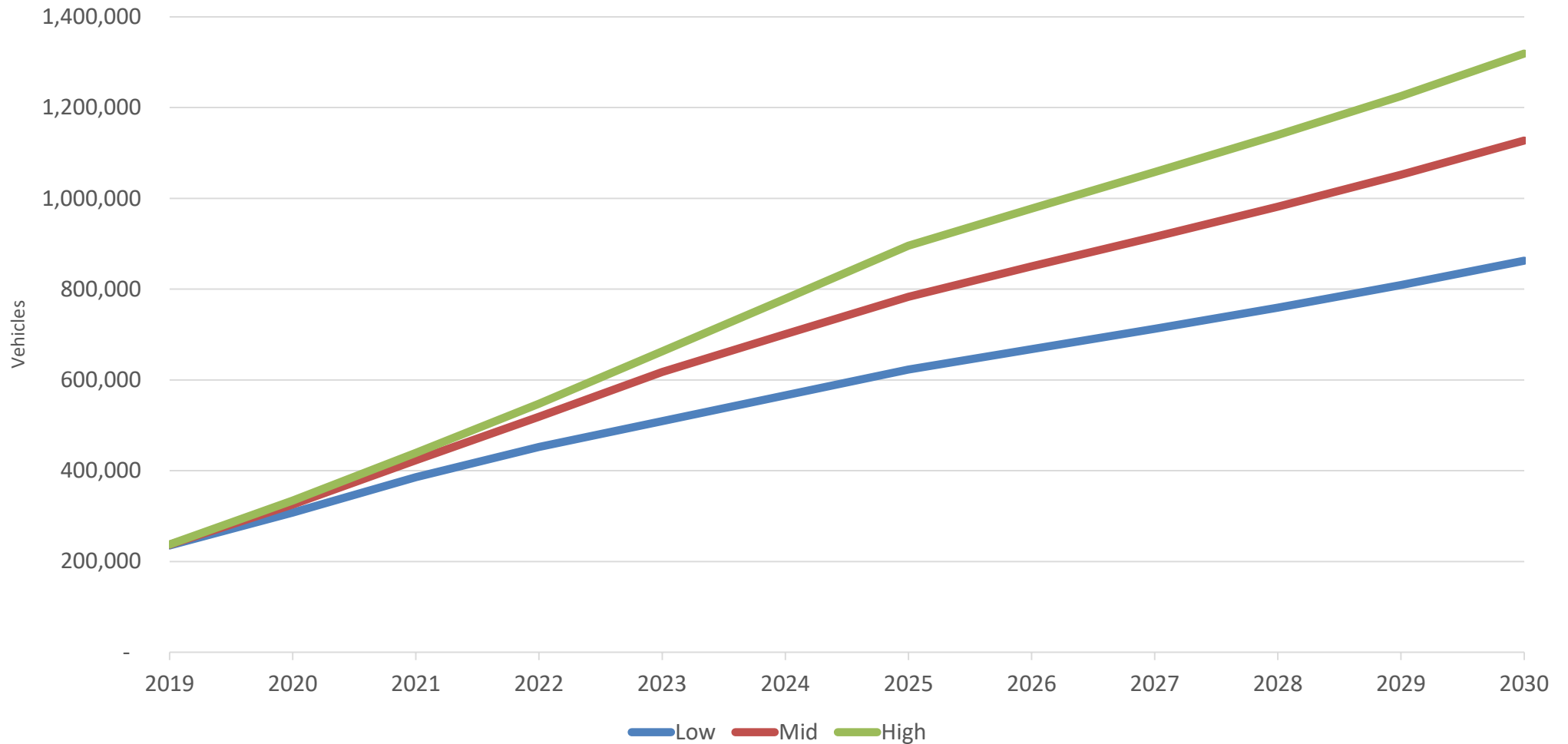


Revised Mid Case Stock Forecast by Fuel Type – PG&E



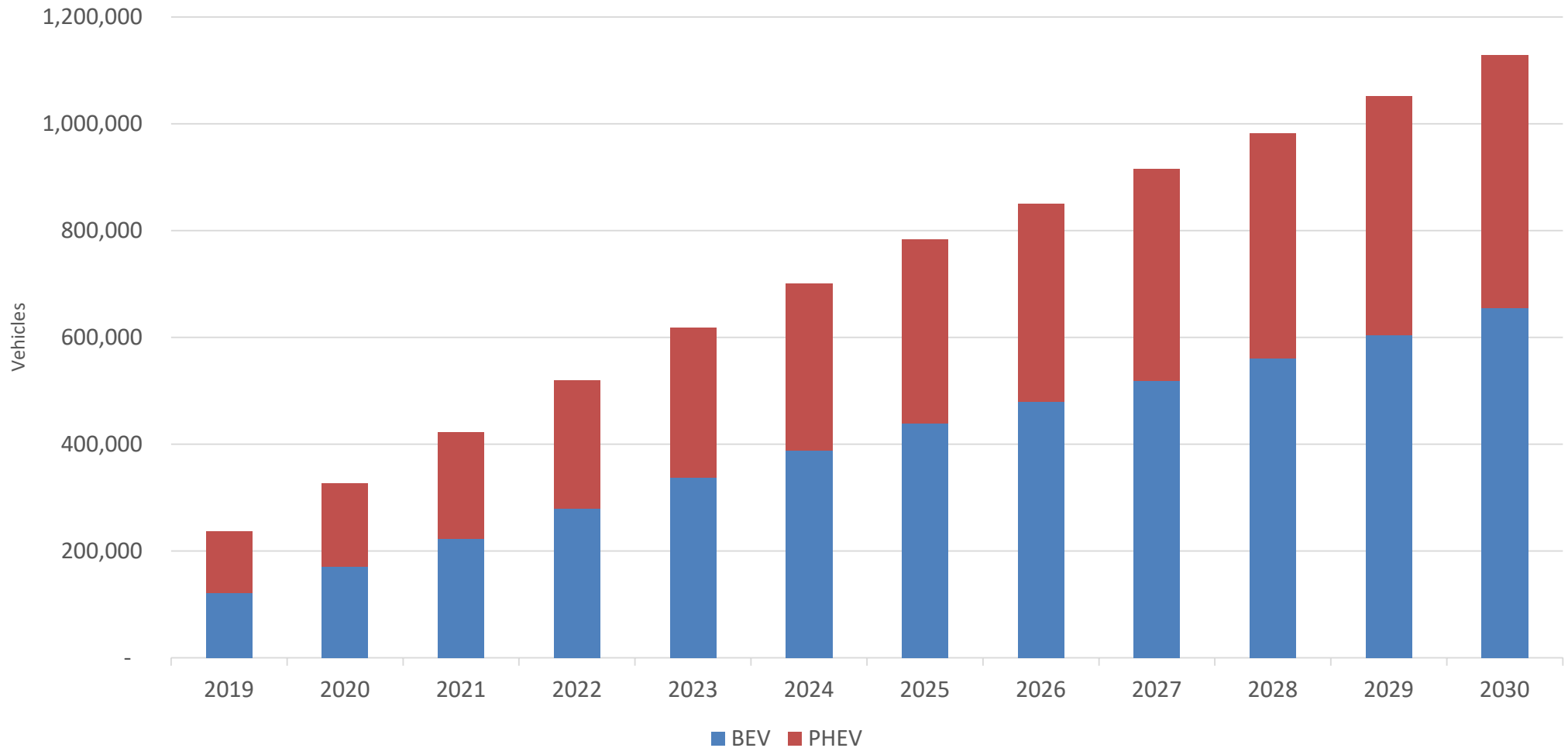


Revised PEV Forecast: SCE



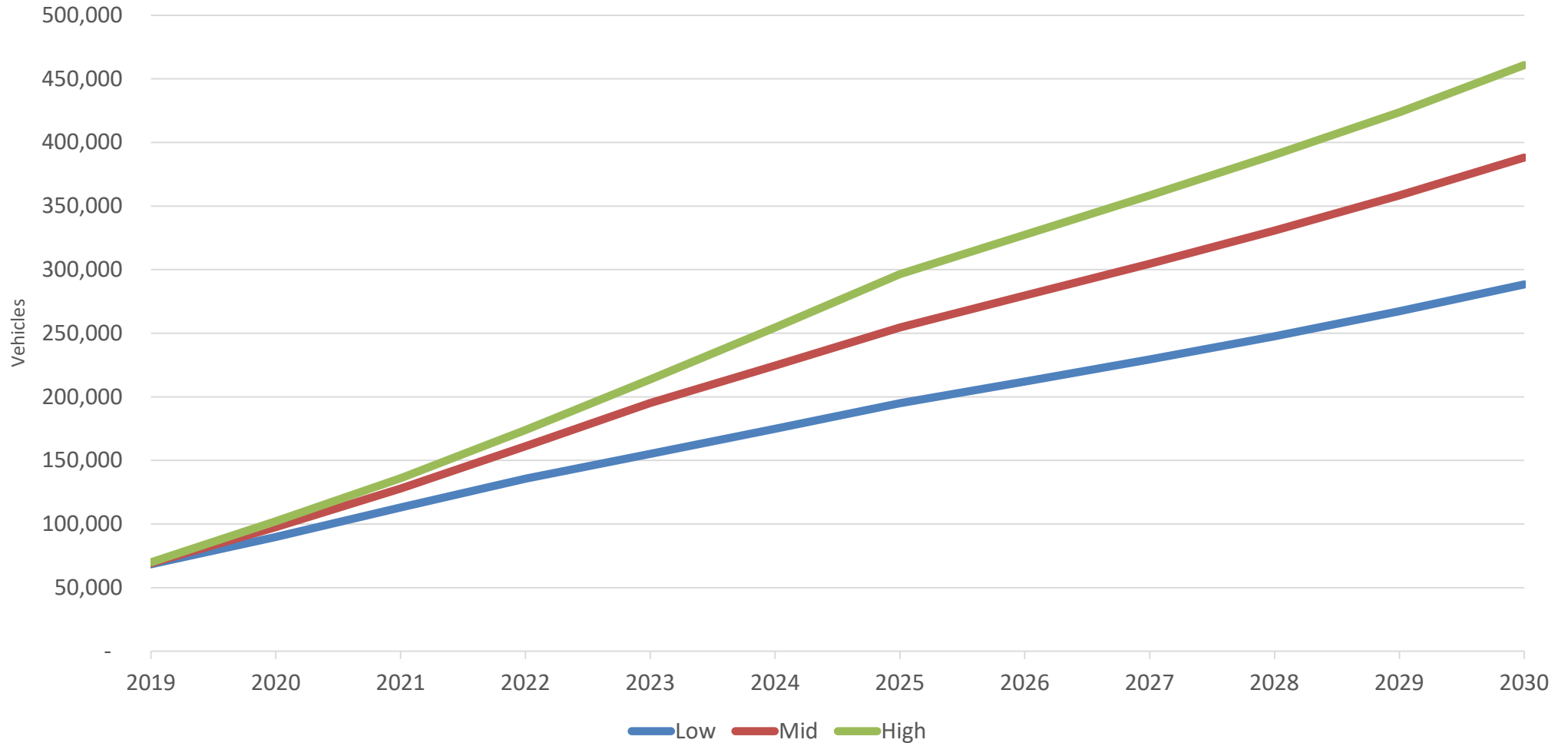


Revised Mid Case Stock Forecast by Fuel Type – SCE



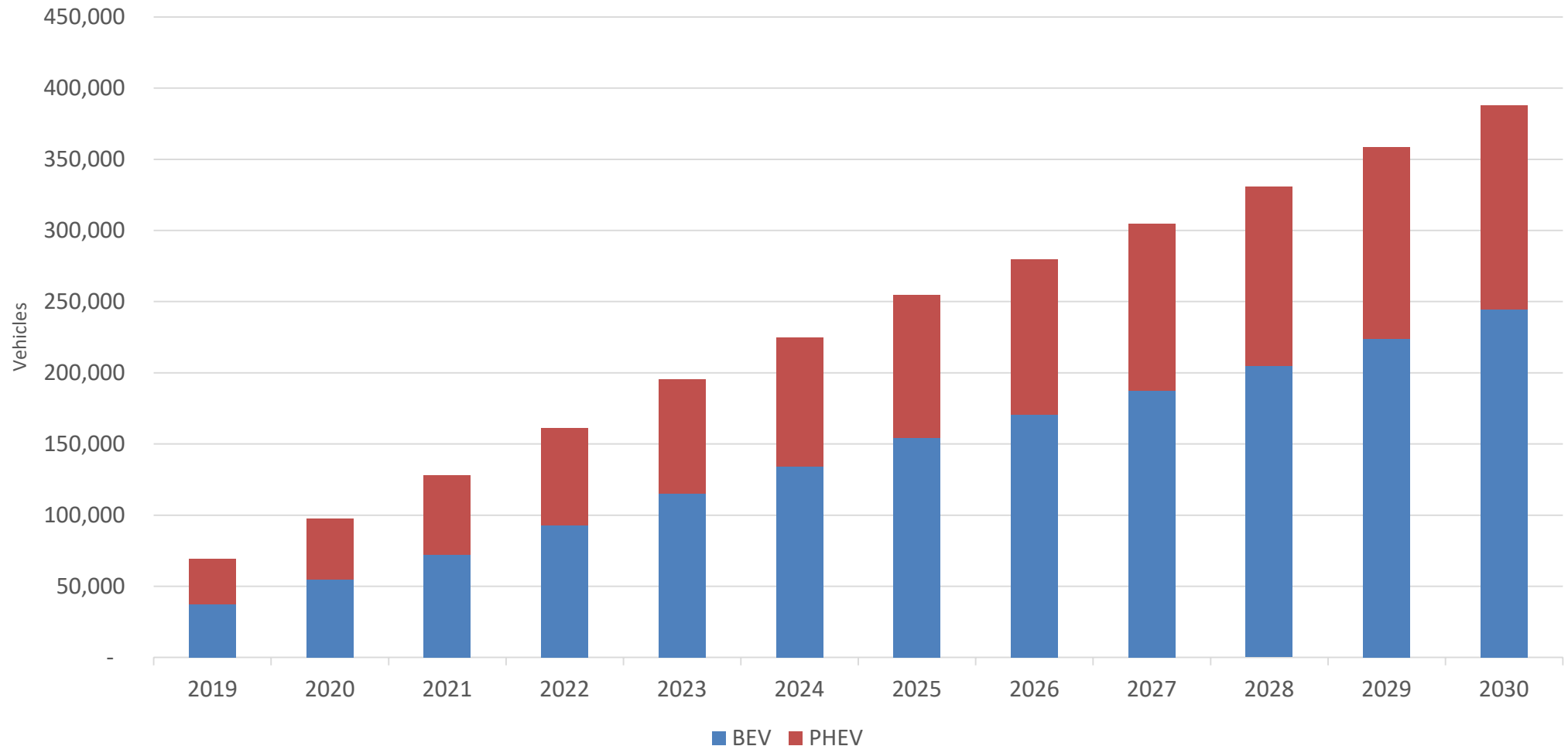


Revised PEV Forecast: LADWP



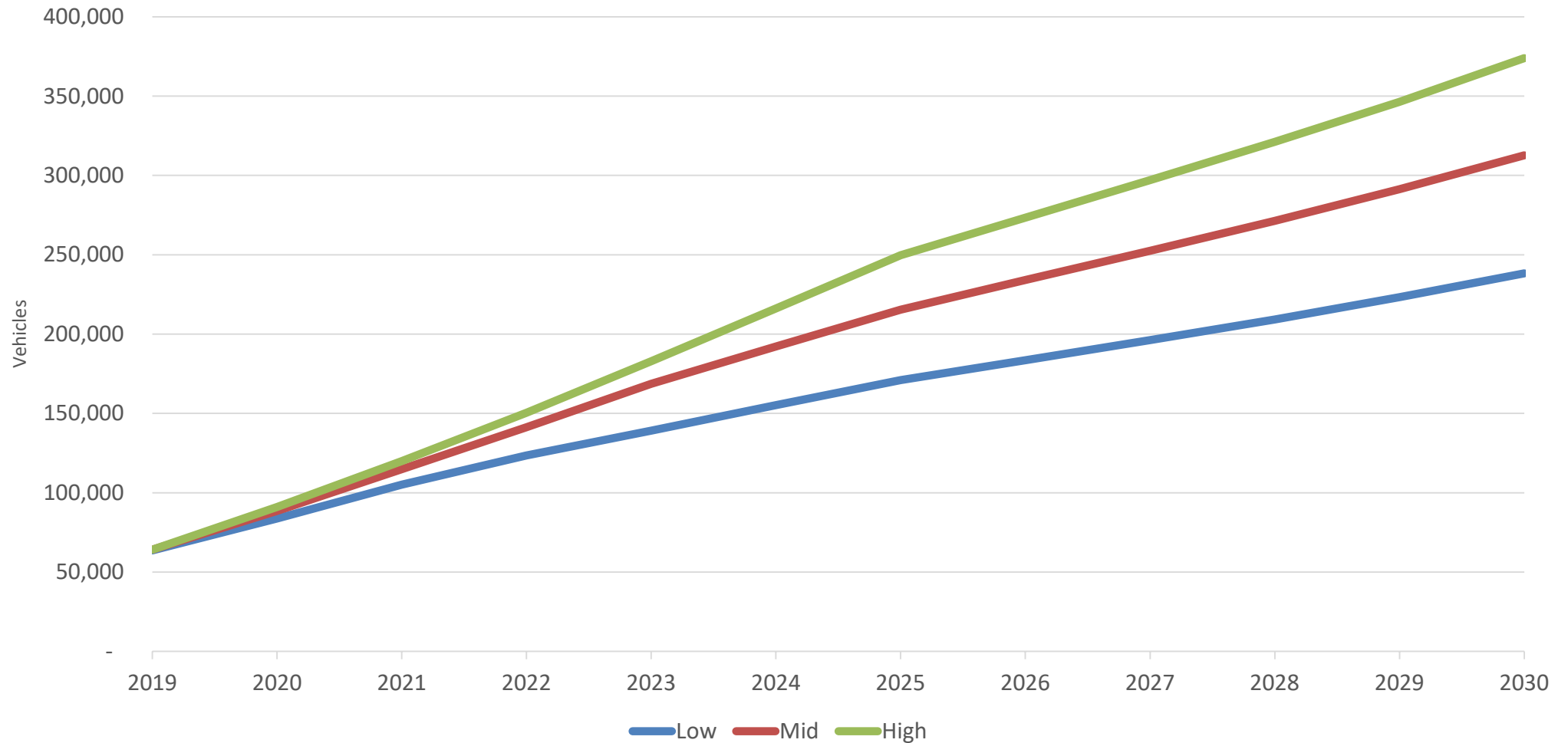


Revised Mid Case Stock Forecast by Fuel Type – LADWP



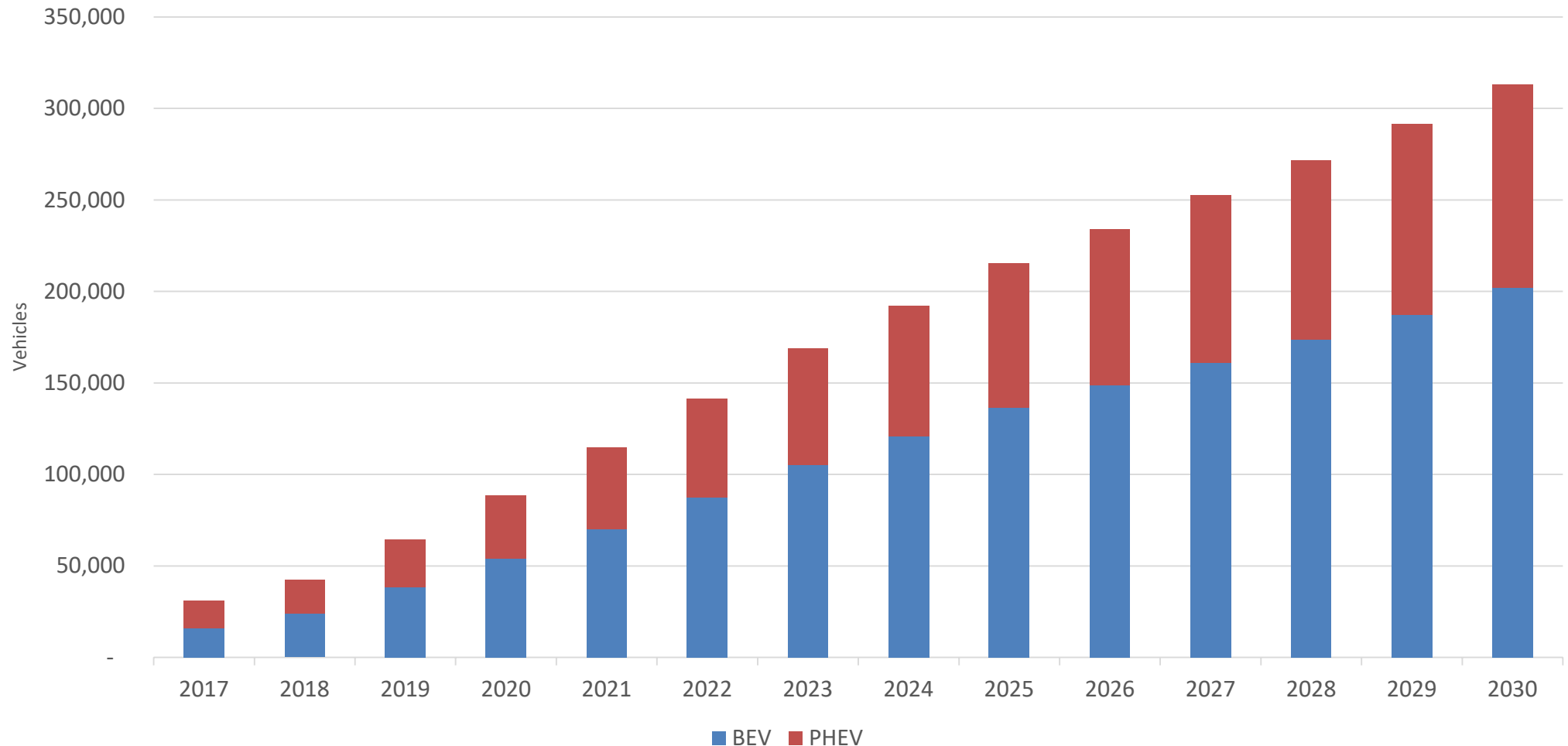


Revised PEV Forecast: SDG&E



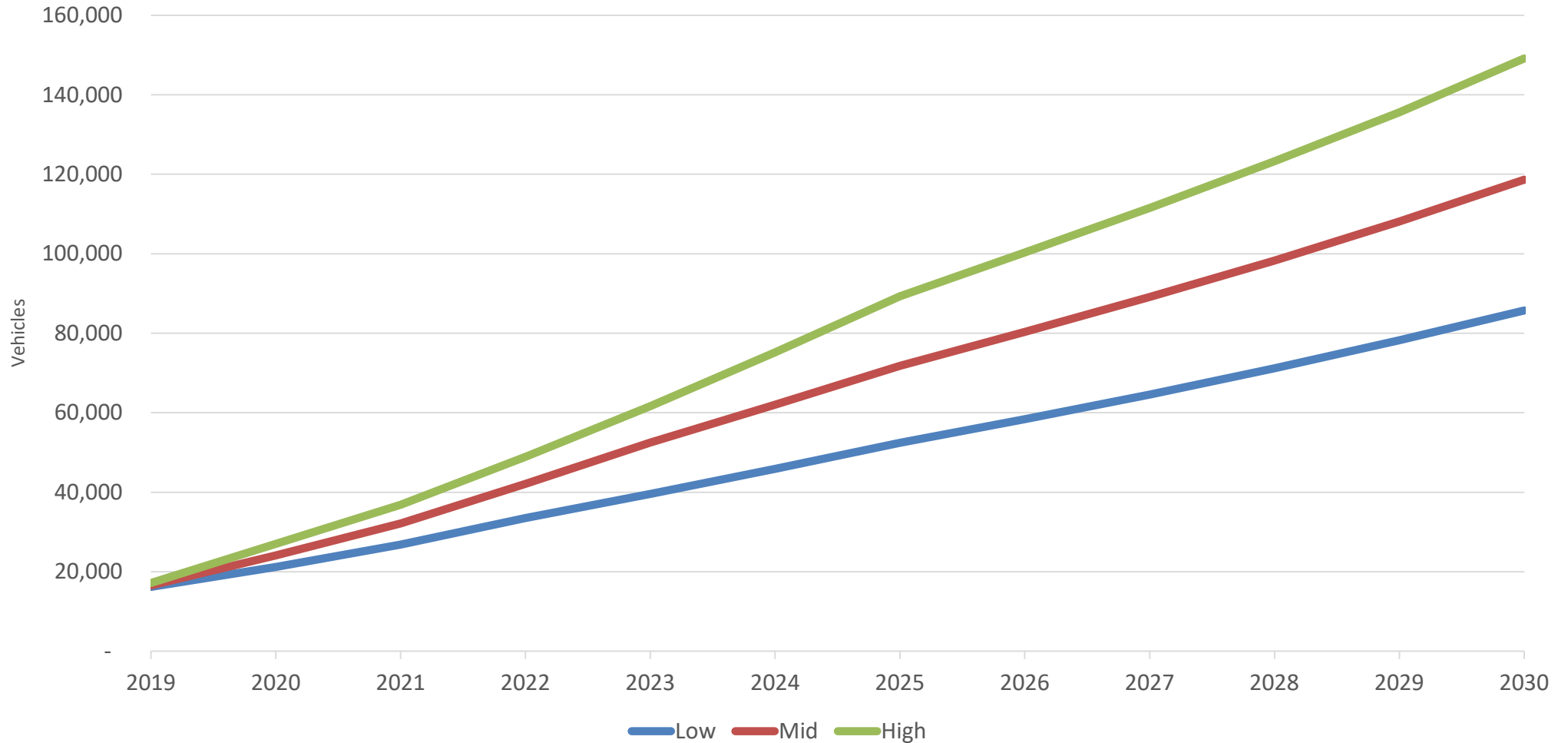


Revised Mid Case Stock Forecast by Fuel Type – SDG&E





Revised PEV Forecast: SMUD





Revised Mid Case Stock Forecast by Fuel Type – SMUD

