

Electric Vehicle Growth in California

California's 2030 carbon reduction and environmental policy goals are creating clear policy incentives supporting greater use of electric vehicles (EVs) in the state.

SECTORS AFFECTED BY EV GROWTH

Independent power producers and investor-owned utilities:

- » Sales growth and grid investment
- » 2/3rd of load growth by 2030

POSITIVE CREDIT IMPACT

Public power electric utilities:

- » Complicates transition to zero coal
- » Looking to reduce demand

UNCERTAIN CREDIT IMPACT

Auto sector:

- » Disruptive change
- » New competitors-Tesla, Uber, Google, Apple

LONG TERM RISK FOR SECTOR

State government:

- » \$3 billion in lost gas taxes by 2030
- » Positive long-term air-quality impact

LIMITED NEGATIVE RISK IMPACT

NO GROWTH SCENARIO BY 2025



3.8%
of all cars sold in CA

3%
annual growth
from 2015 levels

6.8%
of electric load growth

BASE CASE SCENARIO BY 2025



8.3%
of all cars sold in CA

12%
annual growth
from 2015 levels

21.8%
of electric load growth

CALIFORNIA ZEV SCENARIO BY 2025



16.9%
of all cars sold in CA

21%*
annual growth
from 2015 levels

44.1%
of electric load growth

* Average of 21%

CALIFORNIA'S CLIMATE ACTION PLAN Greenhouse gas reduction goals



40%
below 1990
levels by 2030



80%
below 1990
levels by 2050

Reduction of petroleum use in cars & trucks



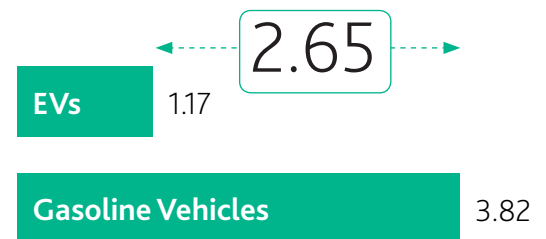
50%
reduction by 2030

Infrastructure



\$100 million
annual investment
in clean transportation

AVERAGE CARBON EMISSIONS (TONS PER YEAR**)



** In California

Source: Moody's, US Environmental Protection Agency.