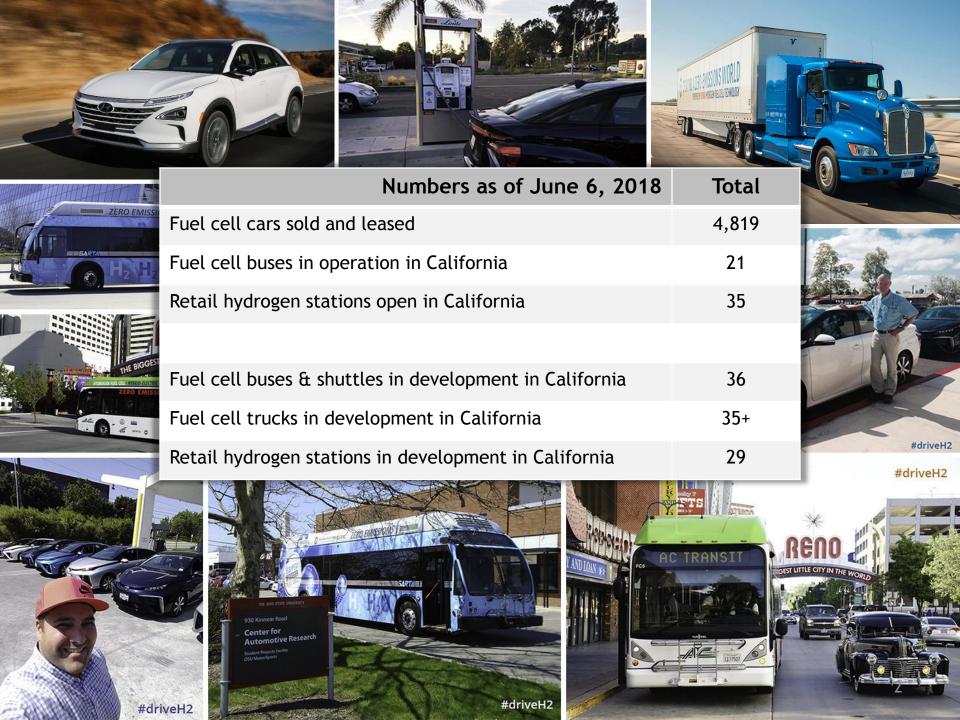
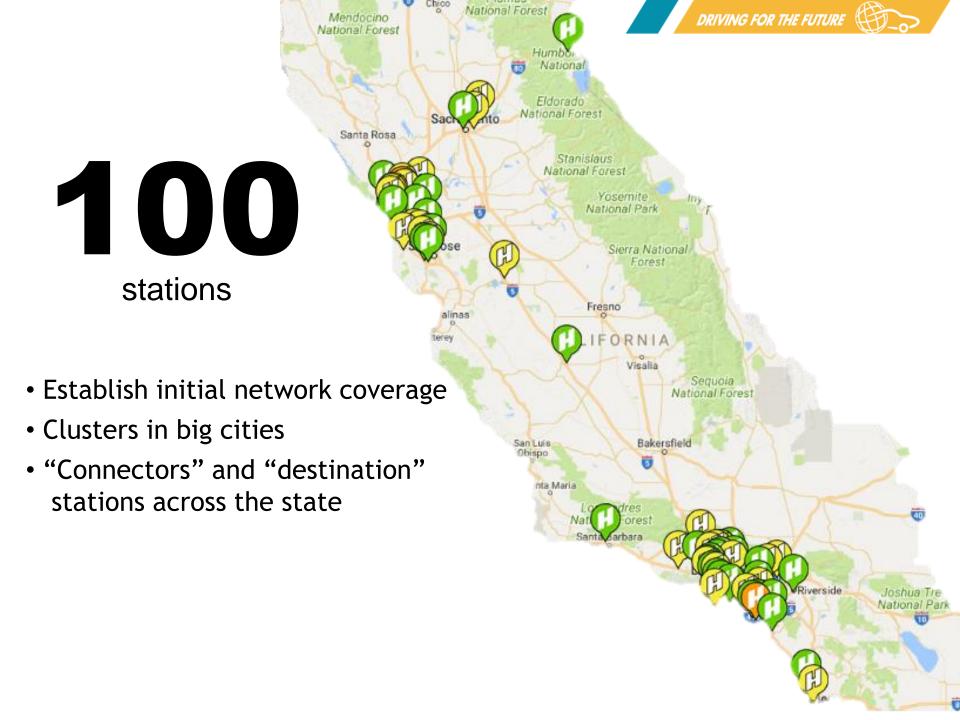
Fuel cell electric vehicles and hydrogen fuel in California

CPUC ZEV Rates Forum June 8, 2018











State Leadership/Industry Opportunity



ENSURE

charging and hydrogen fueling are affordable and more accessible to all drivers.



5 million

Zero-emission vehicles on California roads by 2030.



RECOMMEND

actions strengthen the economy and create jobs in California and expand infrastructure.



200

spur the construction and installation of 200 hydrogen fueling stations.



UPDATE

2016 ZEV Action Plan to expand private investment in ZEV infrastructure, particularly in low income and disadvantaged communities.

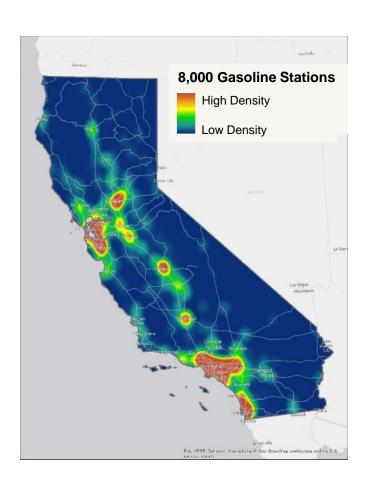


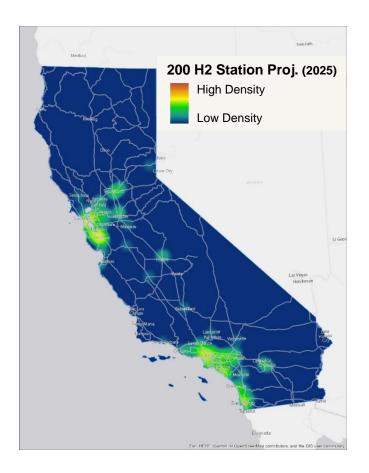
250,000

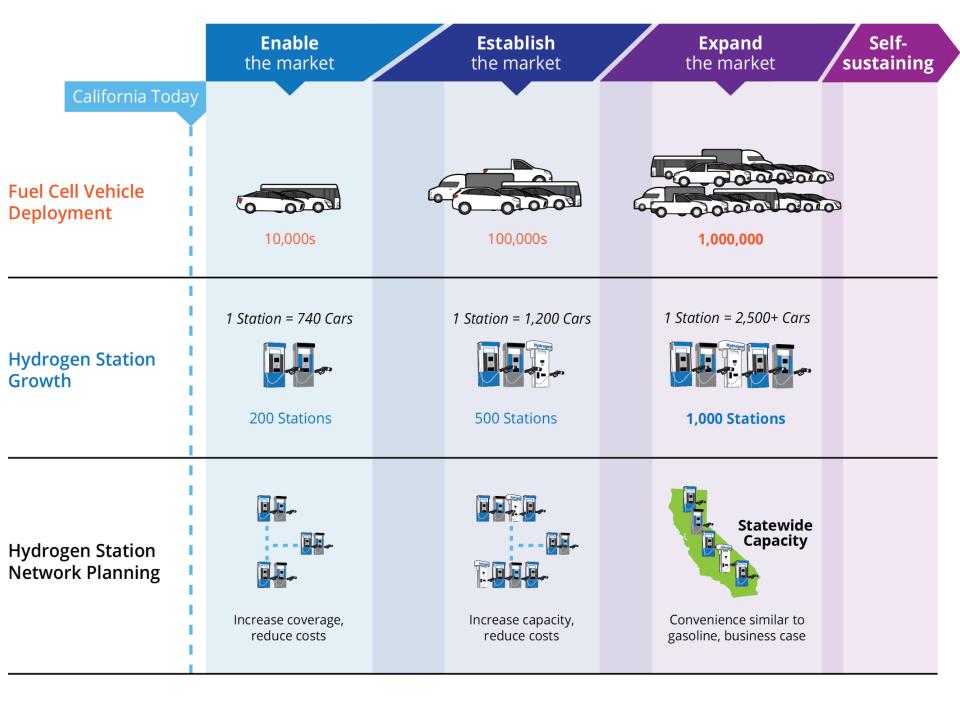
spur the construction and installation of 250,000 chargers.



8,000 Gasoline Stations vs. 200 H2 Stations

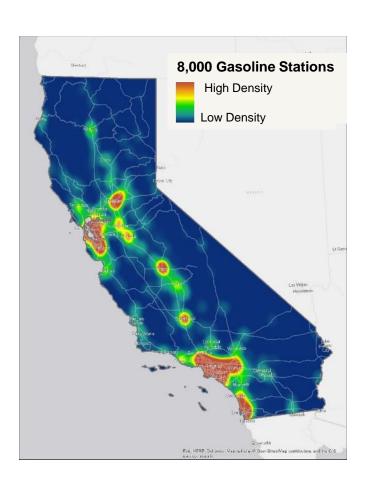


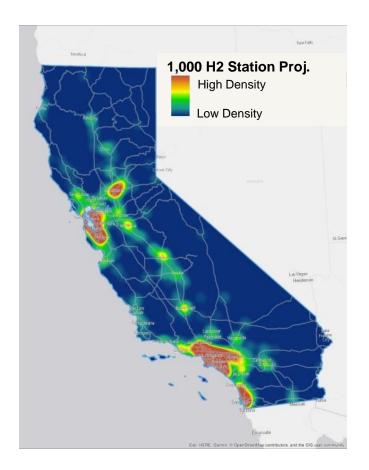






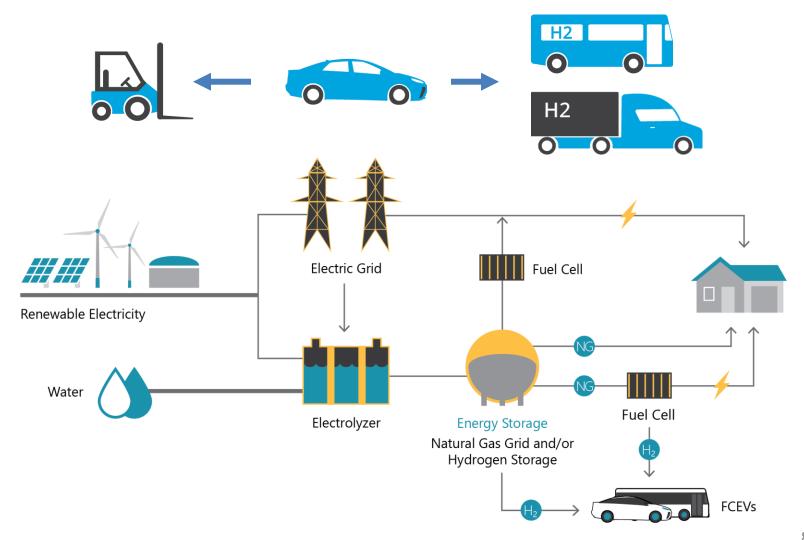
8,000 Gas Stations vs. 1,000 H2 Stations





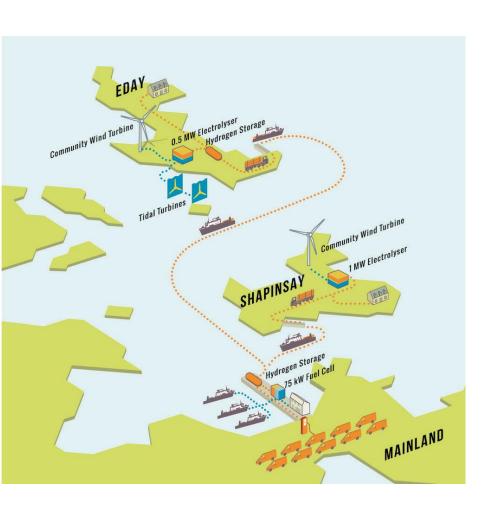


Economies of Scale and Scope





Power to Gas to Fuel



- Uses constrained wind power to make hydrogen
- Provides heat and power for buildings and docked ferries
- Provide fuel for FCEVs



U.S. DOE's H2@Scale

