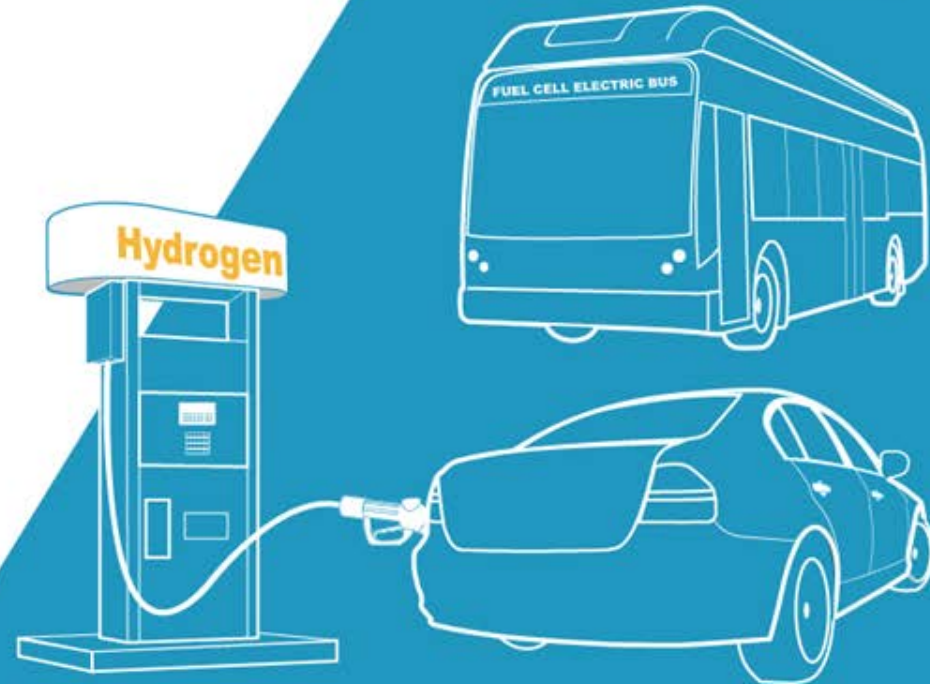


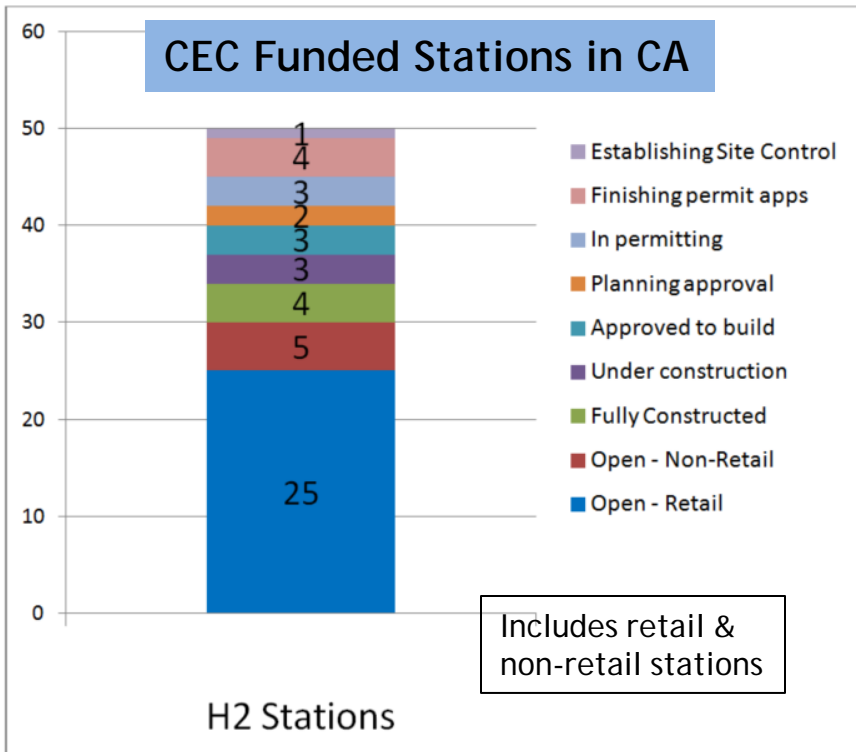
California Hydrogen Fueling Station Network Update

Joe Gagliano & Ben Xiong

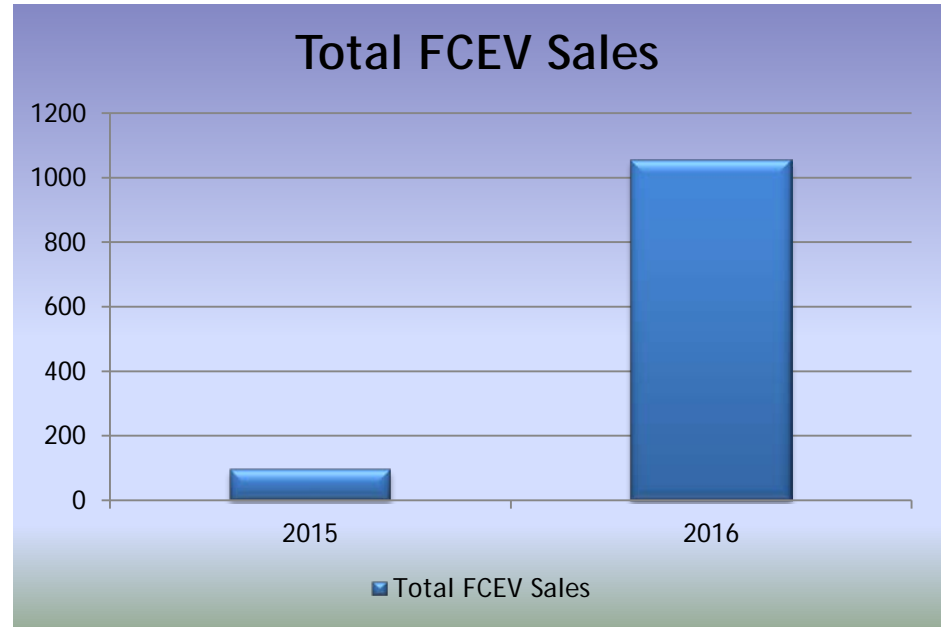
December 15, 2016



California H2 Station Network & FCEV Totals



Forecast estimate 2016: ~25 stations
 Forecast estimate 2017: up to ~49 stations



Source: HybridCars.com

On-Road FCEV Estimates*
 2019: 13,500
 2022: 43,600

*ARB July 2016 AB 8 Report - OEM Surveys

Retail Stations Openings - Q3/Q4 2016



Playa del Rey



Woodland Hills



Hollywood



Anaheim



Del Mar



Forecast for Next Retail Stations

- Riverside
- Ontario
- Woodside
- San Ramon
- Cal State LA
- S. Pasadena
- Fremont
- Thousand Oaks
- Lawndale
- Torrance



For estimated open dates, please see the CaFCP station map at www.cafc.org



CEC GFO 15-605 Solicitation

- Up to \$33.0 million for CapEx and O&M
- Two competitions:
 - Main station (see table)
 - I-5 Connector station (Wheeler Ridge/Lebec & Los Banos)
- Deadline to Submit Applications: **August 19, 2016**
- Anticipated NOPA: **Q1 2017**

Core Market Areas

San Francisco

Berkeley/Oakland/Walnut Creek/Pleasant Hill

Greater LA/Sherman Oaks/Glendale/Pacific Palisades

San Diego/La Mesa

Torrance/Manhattan Beach/Redondo Beach

South San Diego/Coronado

Pasadena/San Gabriel/Arcadia

Long Beach/Huntington Beach/Buena Park/Fullerton

Santa Cruz

Irvine/Tustin

San Mateo/Palo Alto/Cupertino/Campbell/San Jose

Sacramento/Carmichael

San Clemente

Laguna Beach

Tools You Can Use - Station Map

Search by Zip Code or Address

GO

Filter By

Station Types

www.ca fcp.org/stationmap



Download Stations

RETAIL: OPEN

Lake Tahoe-Truckee

Open - Retail
12105 Donner Pass Road
Truckee, CA 96161

Details »



RETAIL: OPEN

West Sacramento

Open - Retail
1515 South River Road
West Sacramento, CA 95691

Details »



RETAIL: IN DEVELOPMENT

San Ramon

Under Construction
2451 Bishop Drive
San Ramon, CA 94583

Details »

RETAIL: OPEN

Hayward



Tools You Can Use - SOSS












Station Status

● Online
 ▲ Limited
 ■ Offline

m.cafcp.org

Public Retail Stations	H70	H35
Campbell	●	● ⓘ
Costa Mesa	●	●
Diamond Bar	●	●
Fairfax-LA	●	●
Harris Ranch	●	●
Hayward	●	●
La Canada Flintridge	●	●
Lake Forest	●	●
Lake Tahoe-Truckee	●	●
Long Beach	●	●
Mill Valley	●	●
Playa Del Rey (New)	●	●
San Jose	●	●

Tools You Can Use - SOSS

Saratoga	 
South San Francisco	 
UC Irvine	  
West LA	 
West Sacramento	 



UC Irvine

Hydrogen bus refueling occurs at this station nightly between 10:00 PM and 2:00 AM. As a result, a customer may experience delays or be unable to fuel during this time period.



m.cafcp.org



In Closing

- Retail hydrogen fueling station network from San Diego, LA/Orange Counties, Central Valley, Bay Area, Sacramento & Lake Tahoe
- Over 1,000 fuel cell vehicles on California roadways
- Learning/refining the process to get retail stations open
- Funding is in the pipeline and there is a government commitment to reach 100 stations
- Efforts now underway to address MD/HD FCEVs - CaFCP Action Plan released





Questions?



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