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US DOE - Bulk Storage of Gaseous Hydrogen Virtual Workshop

Session: Industry, Transport & Export

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Northern California Hydrogen Stations

The map displays the distribution of hydrogen stations across Northern California. Stations are concentrated in the San Francisco Bay Area and the Sacramento region. The inset map highlights the Lake Tahoe-Truckee area, showing a cluster of stations near the border with Nevada.

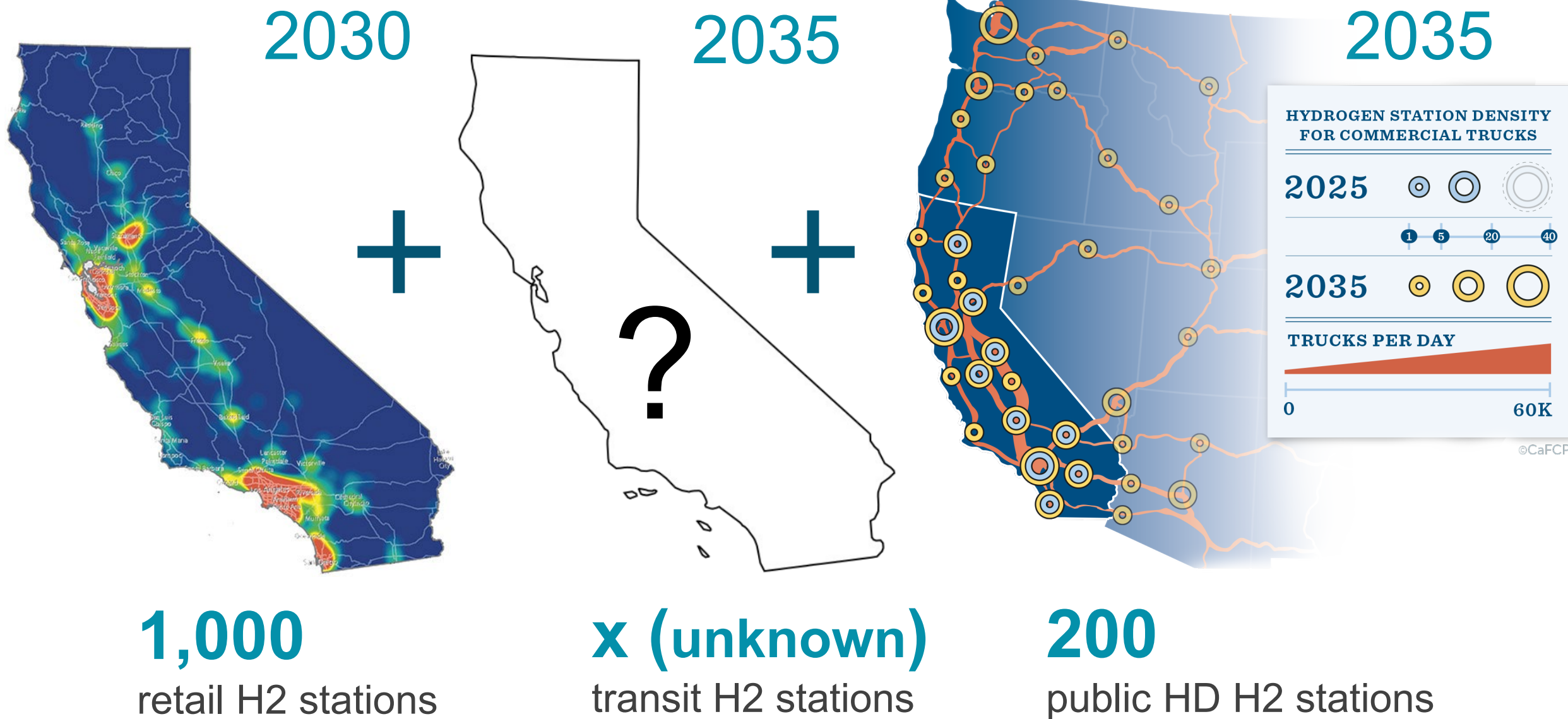
Southern California Hydrogen Stations

Legend:

- Retail: Open
- Heavy Duty: Bus
- Heavy Duty: Truck
- Retail: In Permitting
- Retail: In Construction
- Retail: Legacy
- Retail: Proposed
- Retail: Currently Unavailable



Envisioned HRS infrastructure





Envisioned demand in California

H35 + H70

| 2030 | 2035 | 2035 | Total |
|--------------------|--------------------|---------------------|----------------------|
| 1,000,000 FCEVs | 3,600 FCEBs*? | 70,000 HD FCETs | |
| 700,000 kg/day | >90,000 kg/day? | 1,600,000 kg/day | ~2,390,000 kg/day |
| retail | private | public HD | |

* Assumption: >30% of CA ICT ZEBs



Type of main bulk storage in use (CA only)

| Market | GH2 | LH2 | Other |
|--|-------------------------------|---------------------------------|-------------------|
| Retail (<i>H70</i>) | 34 (100-513 kg/day) | 17 (180-1,200 kg/day) | 1 pipeline |
| HD transit (<i>H35</i>) | 1 (900 kg/day) | 3 (15,000-25,000 gal) | N/A |
| Public HD truck (<i>H70</i> & <i>H35</i>) | 3 (~1,200 kg/day) | - | - |



What does infrastructure storage look like?



Source: First Element Fuel



Source: DroneStudios



Source: SunLine



Source: AC Transit



Source: SunLine/NICE America



Source: OCTA



CaFCP Members















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