







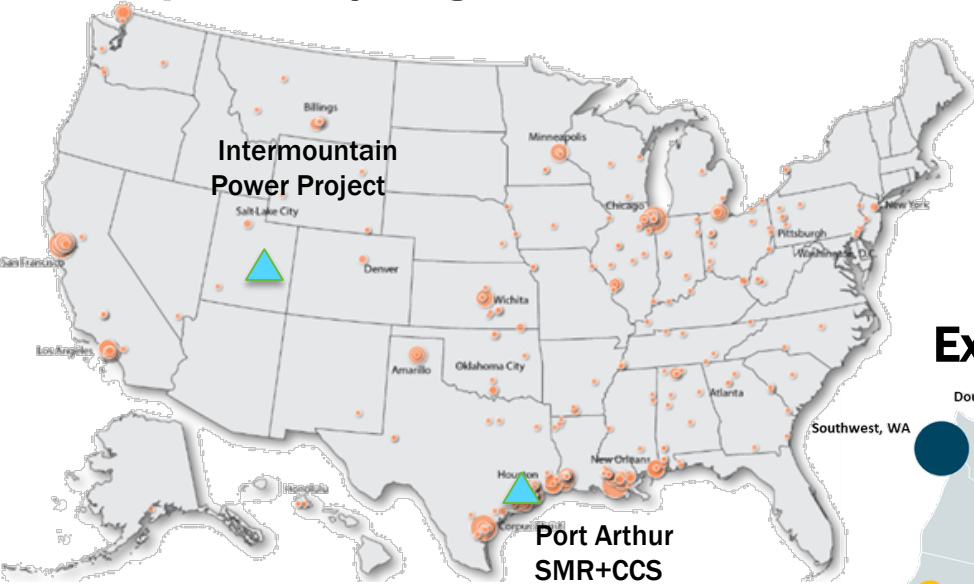
Snapshot of Hydrogen and Fuel Cell Applications in the US - Examples

Examples of Applications in Use

- 
>550 MW
Stationary and Backup Power
- 
>50,000
Forklifts
- 
>172 MW
PEM* Electrolyzers
- 
~70
Fuel Cell Buses
- 
~50
H₂ Retail Stations
- 
>12,000
Fuel Cell Cars

PEM: Polymer electrolyte membrane

Examples of Hydrogen Production Locations



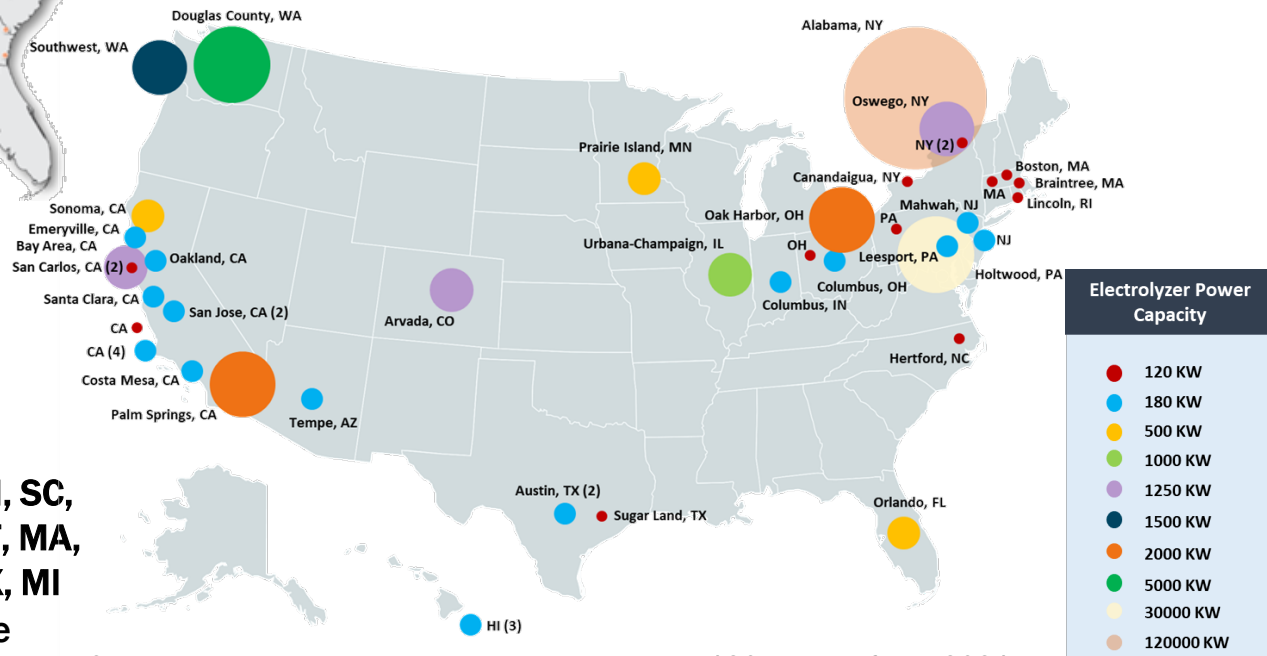
SMR: Steam Methane Reforming
 CCS: Carbon Capture and Storage

Examples of Hydrogen Station Plans

California 200 Stations Planned California Fuel Cell Partnership Goal	Northeast 12 - 20 Stations Planned	AZ, HI, OH, SC, NJ, NY, CT, MA, CO, UT, TX, MI And more
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- **10 million metric tons (MMT) H₂/yr**
- **Over 1,600 miles of H₂ pipelines**
- **World's largest H₂ storage cavern**

Examples of PEM Electrolyzer Installations



Current and under construction installations over 120 kW as of Jun. 2021
 * Source: Arjona, et al, DOE HFTO Program Record, June 2021

Electrolyzer Power Capacity	
●	120 kW
●	180 kW
●	500 kW
●	1000 kW
●	1250 kW
●	1500 kW
●	2000 kW
●	5000 kW
●	30000 kW
●	120000 kW