



Alternative Fuels Vision Plan

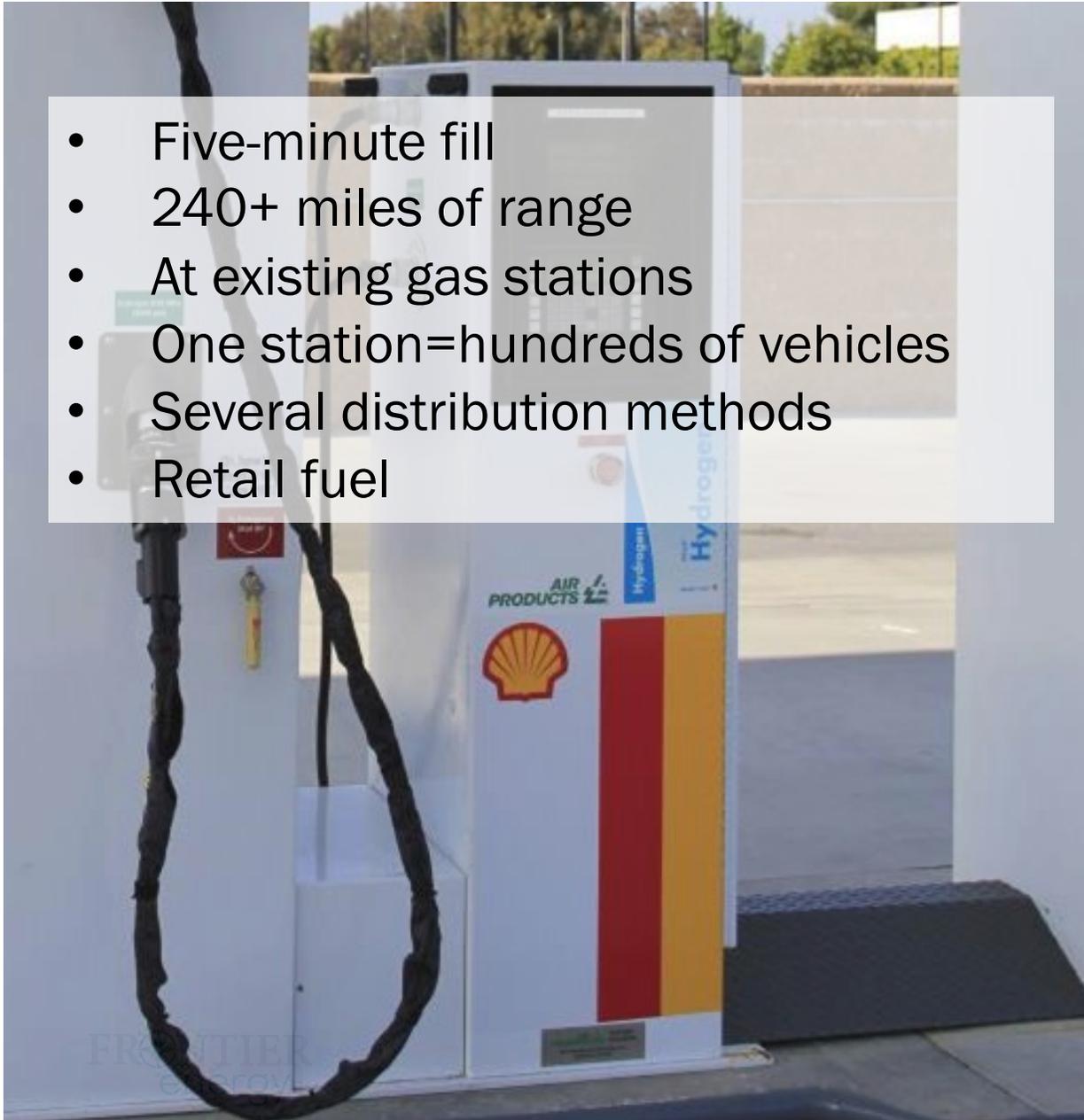


Hydrogen Overview

Chris White
Sr. Manager/Transportation



- Five-minute fill
- 240+ miles of range
- At existing gas stations
- One station=hundreds of vehicles
- Several distribution methods
- Retail fuel

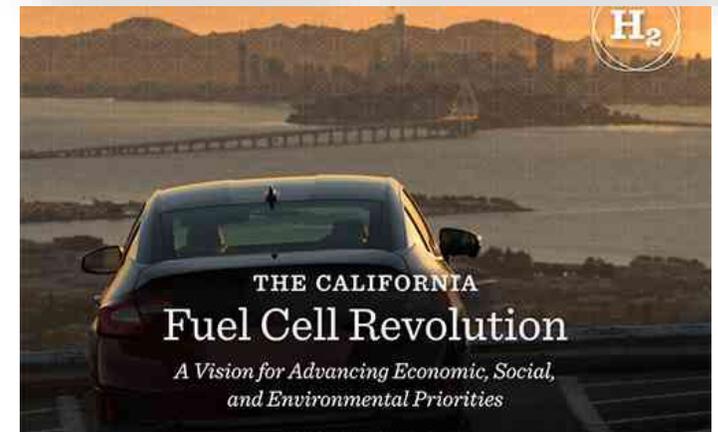
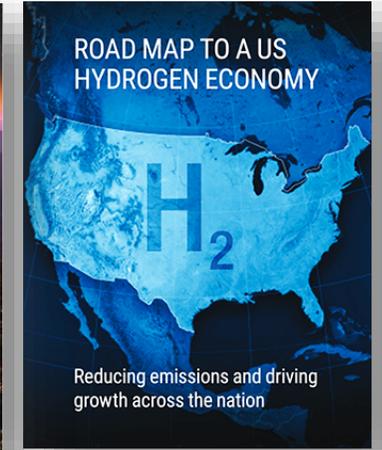
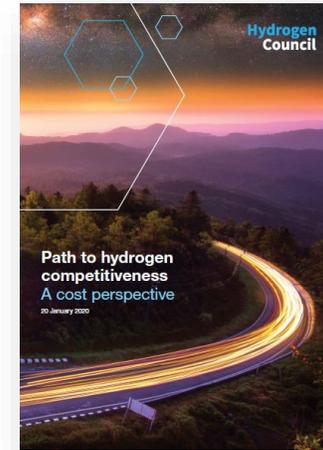


- Slow & quick charges
- 120+ miles of range
- Charge while parked
- One DCFC=40 vehicles
- Existing distribution
- Familiar energy source



Opportunities with H2

- Production
 - Electrolysis from excess wind and solar
 - Biomass
 - Waste methane
- Decarbonization
 - ZEV fuel for multifamily and rental housing
 - Trucks and locomotives
 - Off-road vehicles (construction, port equipment)
 - Blending in the pipeline





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