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SB 1075 Preliminary Hydrogen Scenarios for Medium- and Heavy-Duty Trucks

Quentin Gee

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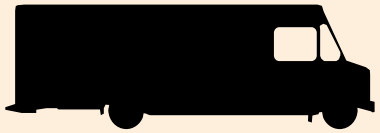
Setting Up the Scenarios

- Fuel cell electric vehicles (FCEVs) are modeled for the following weight classes:

Class 6
19,501 lb to
26,000 lb

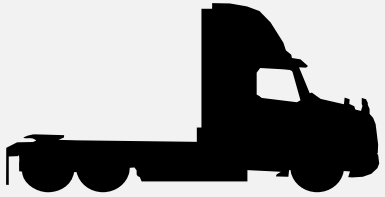
Medium Straight Truck

Large Step Van

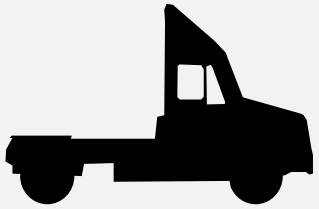


Class 8
33,001 lb &
Over

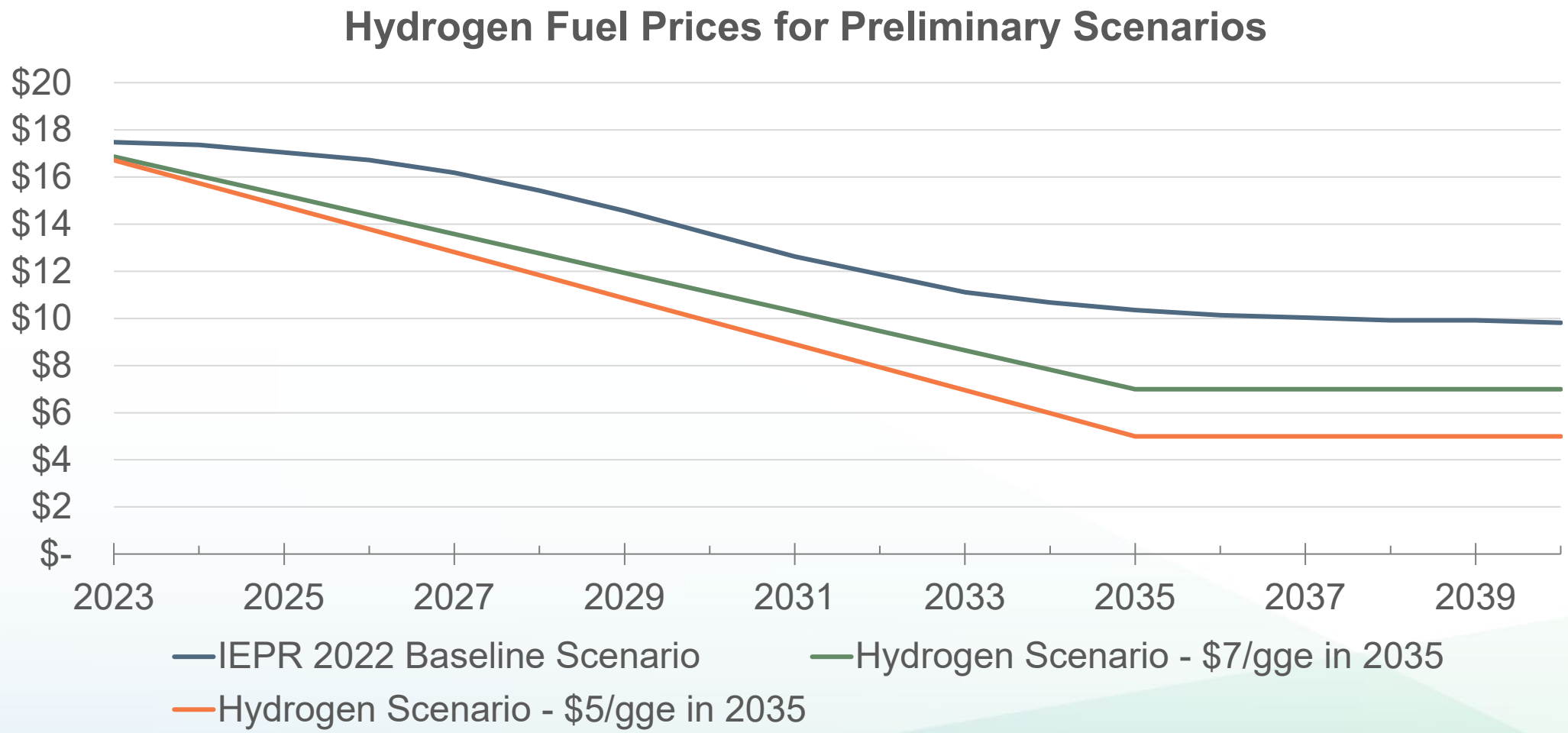
Sleeper Cab Tractor



Day Cab Tractor

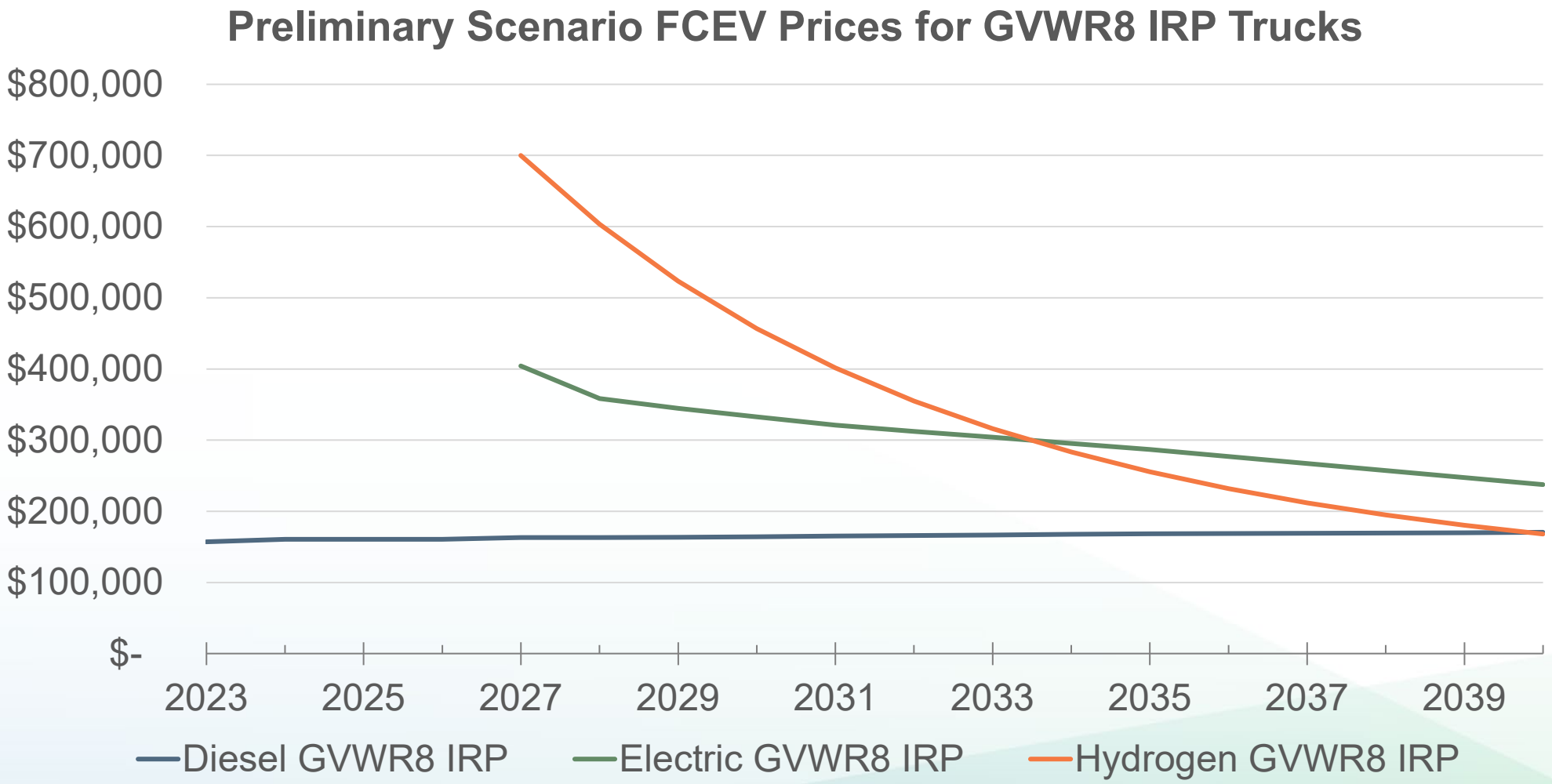


Preliminary Scenarios – Hydrogen Fuel Prices



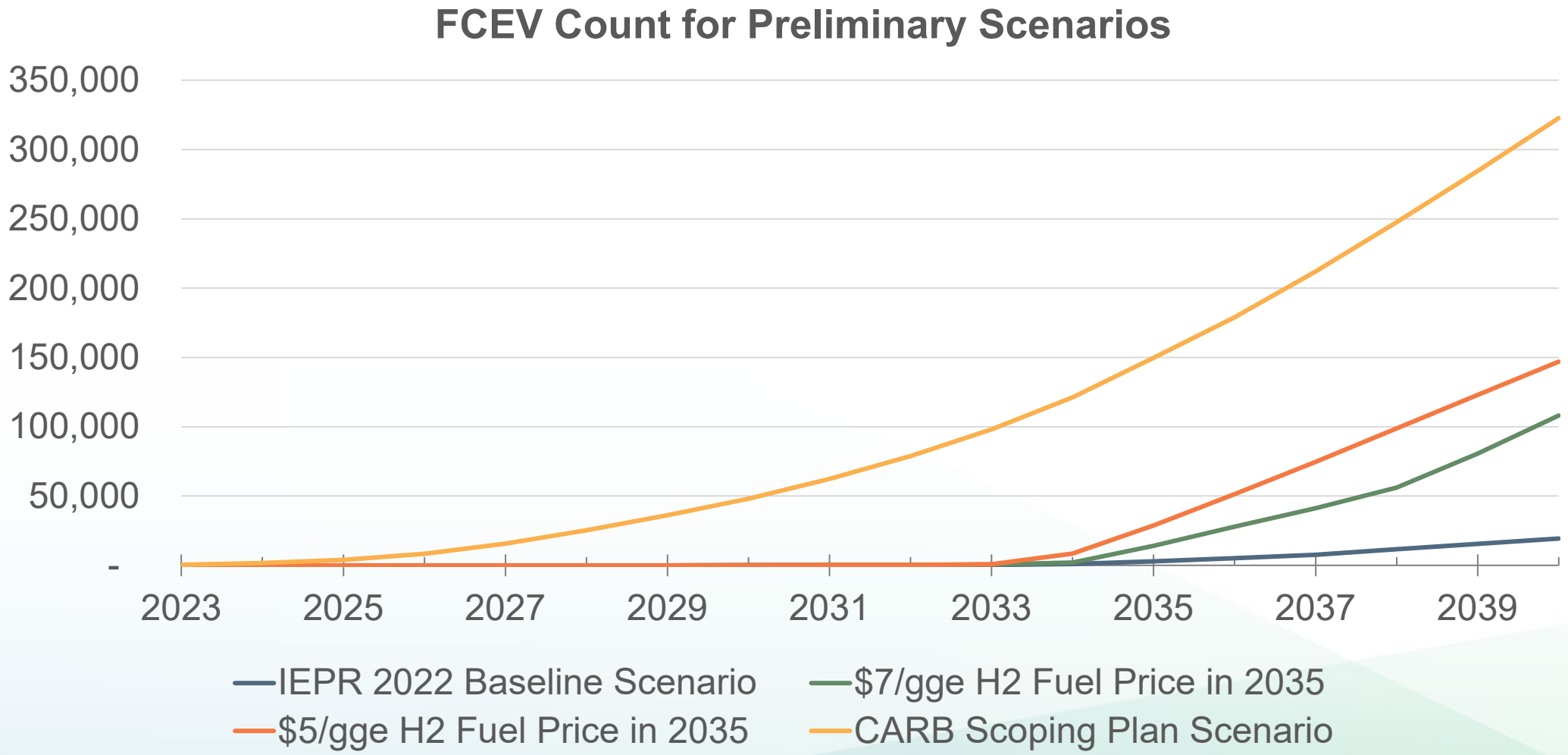
Source: California Energy Commission staff

Preliminary Scenarios – FCEV Prices



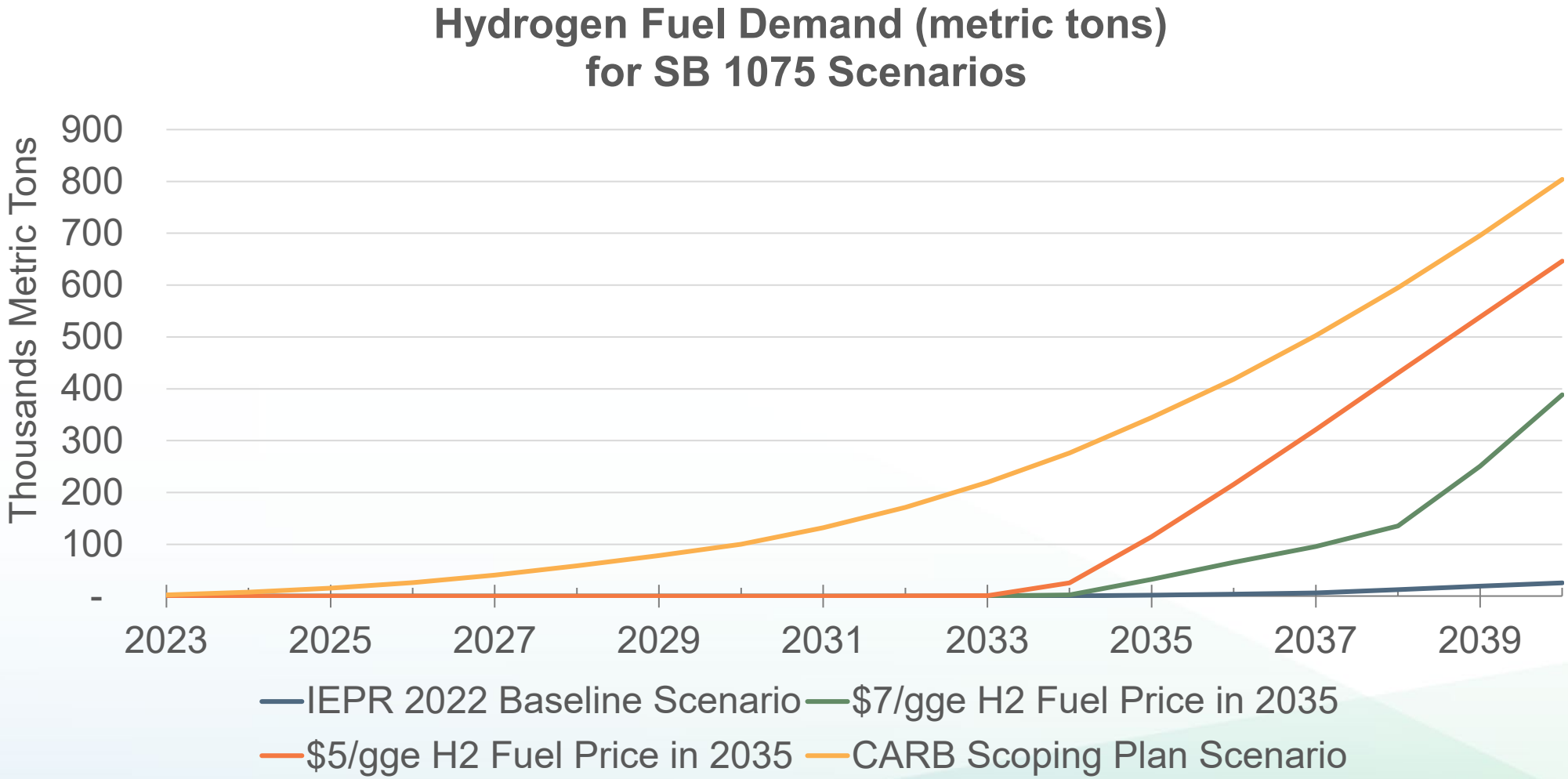
Source: California Energy Commission staff

Preliminary Scenarios – FCEV Count



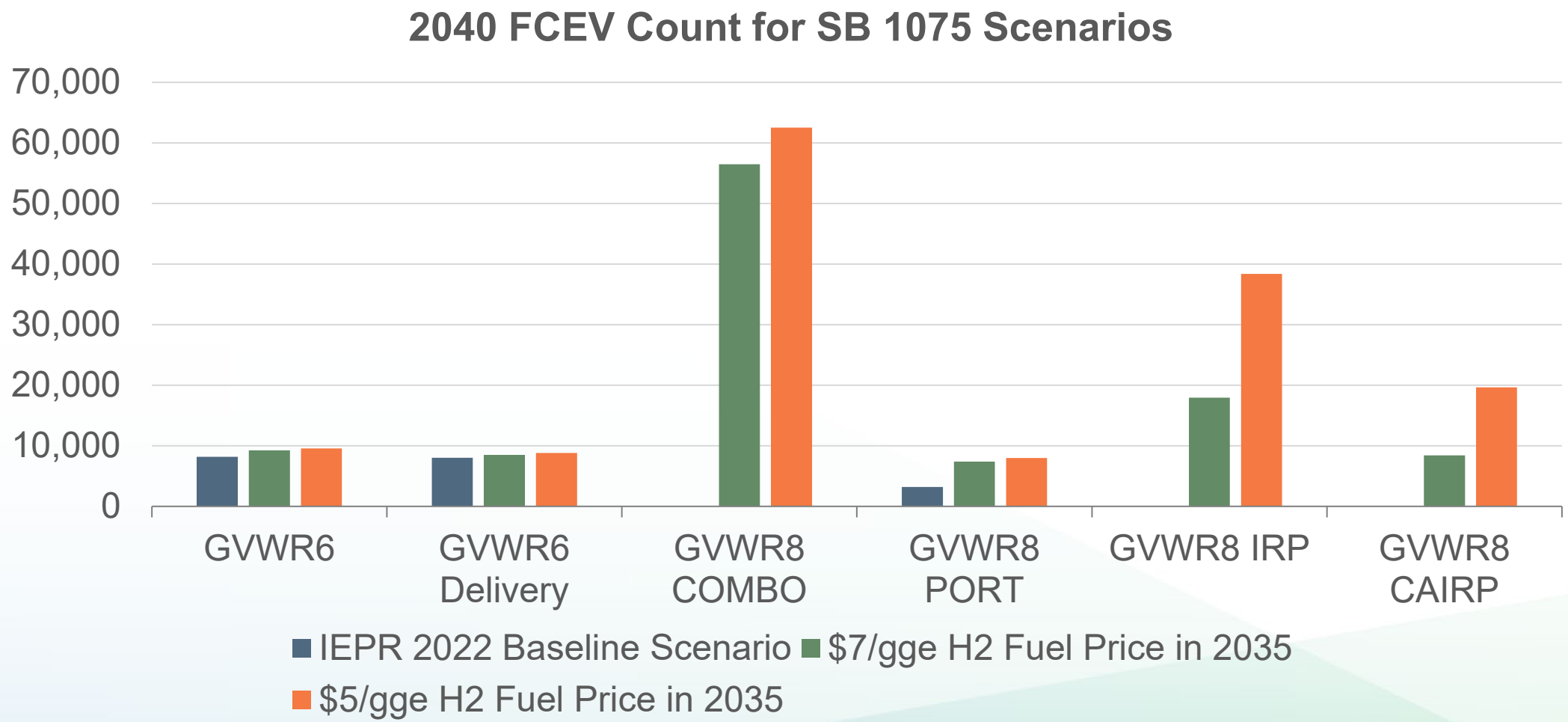
Source: California Energy Commission staff

Preliminary Scenarios – Hydrogen Fuel Demand for FCEVs



Source: California Energy Commission staff

Preliminary Scenarios - FCEV Count by Class in 2040



Source: California Energy Commission staff

Next Steps

- Refine inputs for SB 1075 scenarios
- Explore potential ways to model scenarios for fuel cell electric buses
- Compare outputs with other existing hydrogen adoption scenarios

Thank you!

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