DATE	SEP 29 2009
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Propel[™] Fueling Change.

AB118 H2 Presentation September 29, 2009

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Propel Mission Provide public access to low-carbon fuels for California fleets and consumers

E85 / Biodiesel

E85 / Biodiese

Retail H2 Infrastructure

Should retailer take all the risk?

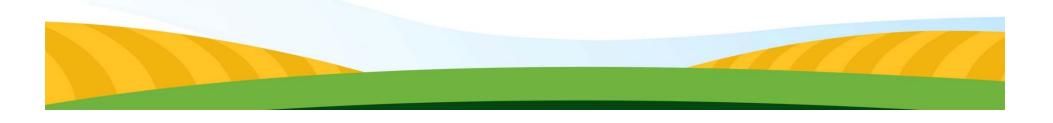
- Technology unproven
- Long term O&M costs have not been defined
- Demand and fuel volumes are not clear
- No economic model for retailer

What makes a retail price?

Unit economic Model: Margin	Ground Lease	\$3,000
per kg must cover retail site costs.	Equipment Lease	\$30,000
	Maint & Ins.	\$7,000
	Utilities	\$3,000
Assuming 50 vehicles per location,	Operations employees	\$10,500
the retail cost of hydrogen would be	Total Monthly Fixed Costs	\$53,500
\$101.00/kg to breakeven.	Vehicle Fueling Assump.	
	mil/yr	12,000
Customer won't pay this cost.	fills/mo	4
	average kg fill size	3
Who will pay for this?	monthly total kg	12
	Delivered cost of 1kg	\$12
	Vehicles & breakeven price per kg.	
	50	\$101/kg
	100	\$57/kg
		\$34/kg

Recommended next steps

- Learn from current ARB funded projects
- Establish best practices after completion
- Scale infrastructure when build/ops costs are better understood.
- 2-5 years to scale



Discussion



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More Information

Propel Fueling Locations: www.propelfuels.com

Clean Drive Demo: propelfuels.com/cleandrive_demo

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