

DOCKET 08-ALT-1		
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RECD.	JAN 08 2009	

## Honda's View on H<sub>2</sub> Infrastructure Needs

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# FCX Clarity

### First Customers

- Announced five of the initial customers
- First deliveries in July, 2008 (four to-date)
- Selection process: geography, driving patterns, access to infrastructure

### • First Fuel Cell Vehicle Dealership Network

- Three Official Clarity/FCX dealerships: Santa Monica, Torrance, and Costa Mesa
- Clarity dealership responsibilities:
  - Sales, Service, Parts, Customer Relations

### Fuel Cell Production

- Dedicated FC Production: Exclusive Clarity factory
- Dedicated FC stack production, with Honda-unique manufacturing equipment



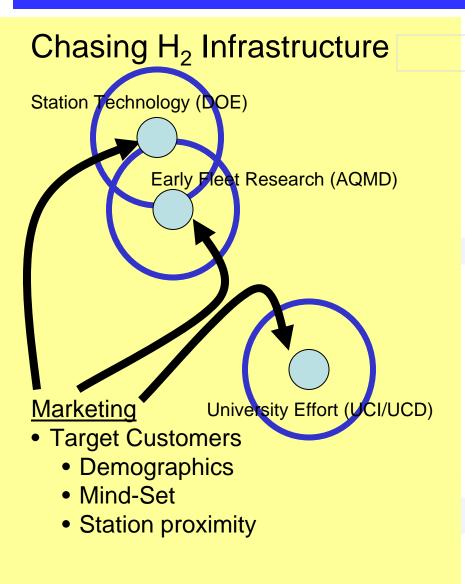








# Shifting the Infrastructure Paradigm



### Market Driven

### Market-Driven Fundamentals:

- Building Hydrogen Communities
- Target Customers
  - Demographics
  - Mind-Set
  - Emotional Appeal
- Sustainable Markets
  - "Neighbors tell neighbors"

## "Market Driven" Infrastructure

### • Begin with Markets

- Identify Communities
- Consider Corridors (key streets)
- Consider Highways (Between Communites)
- Consider Destinations (work centers, resorts, airports, etc.)

### "Cluster Concept"

- Redundancy / Backup
- Primary 5 minutes from residence
- Backup < 15 minutes rush hour traffic</li>

### Consider Stations

- "Marquee" or Image Stations
- Smaller Convenient Community Stations
- Destinations & Nodes
- Mix of 35 and 70 mpa
- Diverse Technologies
- Diverse Sizes, Scaleable

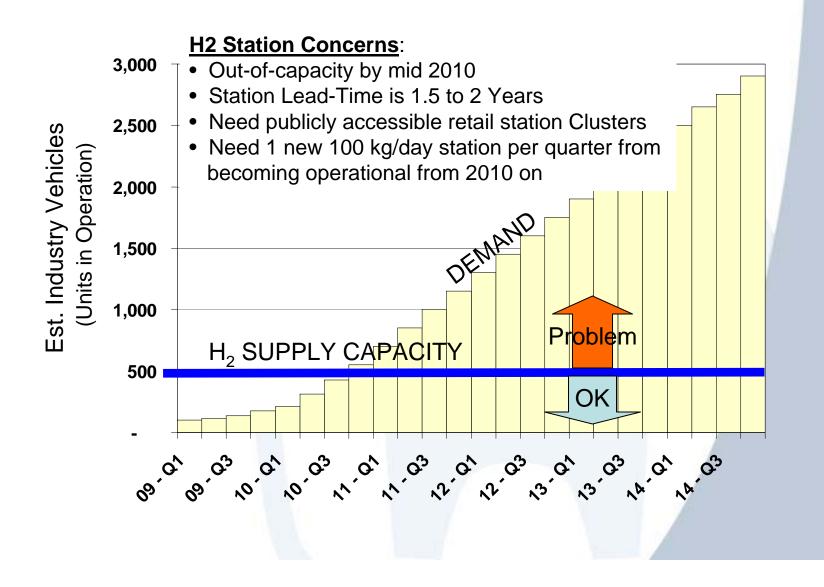
# LA Markets with the highest H<sub>2</sub> / Clarity Interest



## FC Vehicle – Estimated Industry Volumes

Calendar Year	New Vehicles	Units in Operation
2009	Hundred	Hundreds
2010	Hundreds	Hundreds
2011	Hundreds	Hundreds
2012	Hundreds	Thousands
2013	Hundreds	Thousands
2014	Thousand	Thousands
2015+	Thousands	Thousands

## LA Basin H<sub>2</sub> Station Capacity vs Demand



## Well to Wheel Emissions for Midsize Sedan

- Midsize Fuel Cell Sedan can achieve <u>over 60% reduction in CO2</u> using Natural Gas to produce Hydrogen
- 40% less CO2 than BEV Sedan on U.S. Avg. Grid Mix

