



# Hydrogen and Fuel Cell Vehicles in Your Neighborhood

A Southern California Community Workshop



## Evaluation Results

The September 16, 2004 workshop, presented by the National Hydrogen Association and the California Fuel Cell Partnership, and hosted at the South Coast Air Quality Management District in Diamond Bar, CA was a success according to the comments and feedback received on 31 evaluation forms (33% of attendees). The following outlines the responses and attendee demographics:

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**Workshop attendees:** 94 (69 of 119 were pre-registered and 25 registered on-site)

### Pre-registration demographics:

fire official or emergency responder	29	24%
interested party	23	19%
hydrogen industry	19	16%
other	15	13%
city/regional planner, admin, manager	13	11%
code or safety official	8	7%
public works	8	7%
community leader	4	3%
Total	119	

**Knowledge of Hydrogen and Fuel Cells *BEFORE* the workshop (1-10 scale):** 4.2

**Knowledge of Hydrogen and Fuel Cells *AFTER* the workshop (1-10 scale):** 5.3

### Was there adequate time for Q&A?

- 71% Adequate time
- 29% More time needed
- 0% Less time needed

### What was the most valuable part of the workshop?

- 26% Concurrent I: Permitting H2 Stations
- 24% Hydrogen and Fuel Cell Overviews
- 16% Concurrent II: Emergency Response Training
- 10% Ride & Drive
- 8% Welcome and Regional Overviews
- 8% Concurrent I: ANSI Rollout
- 8% Station Tour

**Overall quality of the presentations (1-10 scale):** 8.1

### Did you find the information in the workshop to be useful?

- 100% Yes

0% No

**What subjects would you like to learn more about?**

Siting and building garages/workshops  
More technical details about fuel generation and delivery systems  
Fire suppression operations and how to treat hydrogen fires  
State legislation, standardized for all agencies; temporary fueling installations  
Technical aspects of hydrogen vs. gasoline and diesel. Comparison of storage volumes  
Education; outreach  
Cost Analysis of hydrogen production, storage and delivery  
Standards  
Stationary fuel cell permitting  
Actual breakdown/review of codes  
Codes and adoptions/development  
Storage and fueling  
Facility operations  
The business of fuel cell energy  
US DOE funding efforts  
Emergency response standards and procedures  
DOE/ANSI tool  
Basic differences between liquid and gaseous hydrogen  
Fire suppression equipment, materials, products and supplies  
Discussion to create committee with the fire service to create guidelines for permitting, review and approval of station  
Safety  
Costs, funding, tours to facilities, panels of people who have reviewed plans/built facilities

**How could we improve these workshops for future audiences?**

Have them more often  
More workshops with focused sessions  
Put one on in Arizona  
Just keep doing it  
It would be helpful to have more frequent workshops  
Wished I could have attended the afternoon  
Have more handouts for fire department emergency response to hydrogen fueling stations and to hydrogen fuel cell vehicles  
List of frequently asked questions; bring the NIMBY perspective to the workshops; legal questions and liability issues—major neglect; property casualty insurance concerns-major exclusion; cost analysis, economic feasibility issues, public costs and private cost assessments and projections; underserved communities were underrepresented and thus totally ignored  
Still confused about fuel cell operation, as related to gaseous and liquid hydrogen.  
Which is more effective when used with vehicle fuel cells?  
A little less formal (although I did not attend the afternoon)

Too fast/actual performance costs, durability of fuel cells could be better addressed; would like to see/hear representatives from DCX, Nissan, Honda to discuss viability of their FCV cars

More time for code discussion. Sales pitch OK. Need to learn more on installation details

Have all presentations on CD, the day of presentation

The codes, regulation, etc. were very boring as presented

More on small business opportunities and any connections to SBDC

Allow for one person to attend both presentations

Great facility. The discussion was the most valuable part. Thanks!