

*Coming to a Town Near You --  
The DE Road Show*

Fuel Cell Summit VII



Anne-Marie Borbely-Bartis  
Battelle at U.S. DOE  
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# From National Standards to Local Building Codes:

National

Development

Regional

Adoption

State

Implementation

Local

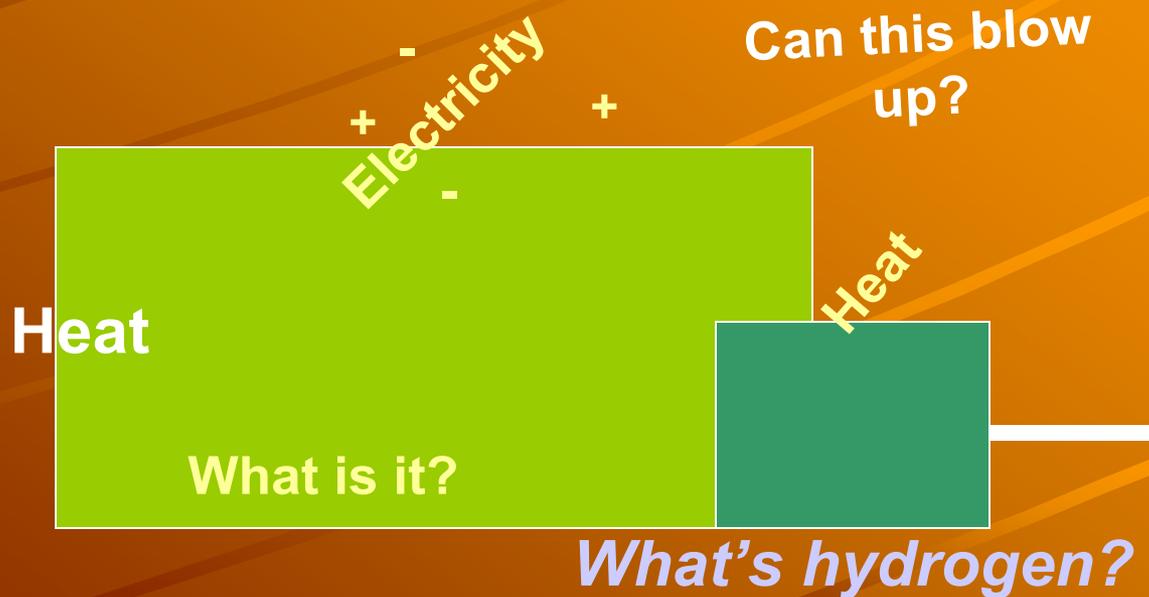
Enforcement

7-10 YEARS



# Actual fuel cell permitting experience (location omitted)

“Am I on camera?.... Is this one of those hidden camera shows?”



**“We’ve only installed EIGHT  
units?!”**

**You’re *FIRED!*”**

**--CEO**



**Applications engineer**



# What is a Road Show?

- ◆ One-day training for fire marshals, building code inspectors, utility engineers, city & county planning staff
- ◆ The installation, fueling, interconnection, permitting, and safe operation of any customer-sited energy technology including fuel cells, hydrogen, methanol, and other “DE” products)
- ◆ Hands-on experience with operating demonstration units at the training site.

# Sample Agenda - Austin

**Welcome** (City of Austin)

**DE: The National Perspective** (DOE)

**CHP: Applications & Benefits** (Burns & McDonnell)

**Microturbines: Installation & Operation** (Capstone & Lower Colorado River Authority)

**Interconnection** (Austin Energy)

**Texas DG Programs** (State Energy Conservation Office)

**PV: Installation & Operation** (Janet's Electric, Inc.)

**Fuel Cells: Installation & Operation** (Southwest Research Institute)

**Hydrogen** (Houston Advanced Research Center)

**Structured Discussion and Q&A** (DOE)

Fuel Cell Tour – RBJ Health Center

# After a Road Show.....

An attendee will know:

- What a fuel cell is
- How it operates, how it is installed
- Hydrogen basics, including safety and storage
- Where to go for permitting assistance (names, contact information, web sites, associations)

Attendance may include CE credits

# Road Shows To-Date

- ◆ San Diego, San Jose, Sacramento
- ◆ NY City, Long Island, Albany
- ◆ Las Vegas
- ◆ Seattle, Portland (OR), Eugene
- ◆ Novi MI
- ◆ Burlington, Concord, Portland, New Haven, Amherst, Boston, Sturbridge MA
- ◆ Cocoa FL, Warner Robins GA, Clemson SC
- ◆ Denver, Fort Collins CO
- ◆ Madison & Milwaukee WI
- ◆ Burlington, MN
- ◆ Plainfield, IN
- ◆ Austin, San Antonio & Dallas TX

# Participants

- ◆ Avista Labs, Plug Power, H Power, FCEnergy
- ◆ Praxair
- ◆ NREL, PNNL, SNL
- ◆ Keyspan Energy, Flint Energies, Florida Solar Energy Center
- ◆ Kohler Power Systems
- ◆ Capstone Turbines, Elliott Energy Systems, Ingersoll-Rand, STM Power
- ◆ Caterpillar, Cummins
- ◆ City of Chicago, City of Las Vegas, City of San Diego, City of Sacramento, City of Denver
- ◆ WE Energies, Alliant Energy, Minnegasco, Piedmont Natural Gas, Cinergy
- ◆ Interstate Power, H&H Electric, Blanchard Machinery, Reliable Power
- ◆ State PUCs, State Energy Offices, State Economic Development Agencies



Goal:  
150 “First Generation”  
Road Shows

Next stops: Alaska, Rocky Mt. states, Southwest, CA,  
Virgin Islands

**and all locales who request a show**

# Demonstration Units

DOE is soliciting proposals for 1-6 demonstration units to be deployed at the Regional Offices in Denver, Seattle, Boston, Philadelphia, Atlanta, and Chicago

- 500w to 2kW, direct hydrogen
- Enclosed for Fed Ex shipment, on wheels
- UPS onboard, all ancillaries
- Warranted, with service included
- Stored at public location (university, DOE Regional Office) and used for educational programs in addition to the Road Shows.

# For more information

Road Shows, participation:  
[anne-marie.borbely-bartis@ee.doe.gov](mailto:anne-marie.borbely-bartis@ee.doe.gov)  
202-586-5196

Regulatory Education:  
[Neil.Rossmeissl@ee.doe.gov](mailto:Neil.Rossmeissl@ee.doe.gov)  
202-586-8668

Submission of Bid Offers for Demonstration Units:  
[Bruce.Kinzey@pnl.gov](mailto:Bruce.Kinzey@pnl.gov)  
202-646-5231



[www.eere.energy.gov/der/roadshow.html](http://www.eere.energy.gov/der/roadshow.html)

