



Hydrogen Workshop for APEC Economies

Focus on Eastern Hemisphere

May 16, 2005

Sheraton-Waikiki Hotel

Honolulu, Hawaii



Workshop Purpose

- Present developing version of the *Sourcebook for Hydrogen Applications*
- Develop information on Codes and Standards and demonstration projects for hydrogen and fuel cells in APEC economies in Eastern Hemisphere.
- Understand hydrogen and fuel cell information needs of the APEC community



Morning Agenda

- 8:30 am Welcome and Introductions
- 8:40 PATH (Jeff Serfass)
- 8:50 Workshop Purpose (Cary Bloyd)
- 9:00 The *Sourcebook* (Bob Hay)
- 9:20 Discussion
- 10:00 Coffee Break
- 10:15 Economy Presentations
- 12:15 pm Lunch (*Honolulu Room*)



Economy Presentations

- China*
- Chinese Taipei
- Republic of Korea*
- Malaysia
- Mexico
- New Zealand
- Thailand
- United States
- IPHE

**invited*



Afternoon Agenda

- 1:30 pm Economy Presentations (cont.)
- 3:30 Break
- 3:45 Roundtable Discussions
 - » Hydrogen Demonstration Projects (Andre van Rest)
 - » Hydrogen Codes and Standards (Bob Hay)
- 5:00 Summary & Concluding Remarks
- 5:30 Adjourn



***Partnership for Advancing
the Transition to Hydrogen***

Jeffrey A. Serfass
General Manager

PATH



Mission

- Create real and virtual global community of interest in hydrogen
- Help companies and universities connect internationally
- Develop consistent knowledge base internationally
 - Codes & Standards
 - Demonstrations



PATH Members

- Members
 - Canada
 - Japan
 - United States
- Observers
 - Argentina
 - China
 - Mexico



Activities

- Develop *Sourcebook for Hydrogen Applications* (APEC grant)
 - Includes two workshops to gather information
- Provide ideas and input into hydrogen and fuel cell demonstrations for the 2008 Olympics in Beijing
- Identify how regulatory changes in Japan effect codes for hydrogen and fuel cells



APEC

- Energy Committee has an interest in developing an understanding of hydrogen and fuel cells
- The ultimate goal is to encourage trade in these and other areas among its members and with the rest of the world
- This work is funded through an APEC energy grant with cost share funds from PATH members

The logo for PATH (Population and Family Planning) is centered in the background. It consists of a light blue circular globe with a white outline of the continents. Below the globe, the word "PATH" is written in a large, white, sans-serif font. The background of the logo is split horizontally: the top half is light blue and the bottom half is a darker, muted blue.

***Concurrent Session
Discussion Rules***

PATH



Discussion Session Rules

- Facilitator and note-taker in each session
- Note-taker compiles questions and responses and records major discussion points
- Each attendee will comment on each question
- After first round of discussion, additional comments will be solicited



Discussion Session Rules (continued)

- 15 minutes to discuss each question
- Limit initial comments to 2 minutes to allow time for explanation and comments.
- Note-takers will develop and present summaries of discussion sessions



Discussion Session One - Demonstration Projects

- Why is your economy interested in hydrogen?
- What major applications are consistent with that interest?
- What projects do you have or are you planning that would demonstrate that application?
- How do you anticipate the demonstration project to be funded and/or sponsored?
- Does the lack of standards impede deployment of demonstration projects in your economy?



Discussion Session Two

Codes and Standards

- Describe your economy's Codes and Standards Process.
- Is your economy planning to develop codes and standards for hydrogen and fuel cells or adopt them from other economies/organizations?
- How will international standards be applied?
- Do you expect global technical regulations to impact domestic standards development?
- Does the lack of standards impede deployment of demonstration projects in your economy?

