

Workshop on Commercial - ready Hydrogen Refueling Stations - design and social acceptance -

**November 19, 2013
Hilton Sea Hark Hotel, Fukuoka, Japan**

Back Ground

Toward the expected FCV commercialization in 2015 and beyond, major countries like the US, Germany and Japan started the early deployment of commercial-ready hydrogen refueling stations (HRS), and conducting RD&D on hydrogen applications and utilizations.

From demonstration projects on FCV and HRS in leading countries and regions, the basic concept of commercial-ready HRS have been established. The next phase is the initial deployment of HRS toward the commercial-level deployment.

Although technical barriers and issues of HRS are well-addressed and being overcome, the lack of social acceptance on hydrogen among civil society is becoming a major issue, with the general concerns on potential risks of hydrogen, such as high-pressure and inflammability. Therefore, the social acceptance on HRS is the immediate priority for the larger-deployment of hydrogen.

Workshop Objectives

The workshop is aiming the information-sharing among HRS system suppliers and operators on basic concept of commercial-ready HRS, in terms of functions, safety, cost, and other related issues.

Also, it aims to promote the common understanding on social issues by sharing best practices on social acceptance toward civil society.

Expected outputs are;

- ◆ Information exchange on expected functions and design criteria for HRS, and major suppliers' model and technology Incident and safety
- ◆ Hydrogen-related incidents and safety-assurance technology / practices
- ◆ Best practices on the improvement of social acceptance

Session Topic

Major countries are focusing on initial-stage deployment of hydrogen refueling stations. This workshop will provide stakeholders with the unique opportunity to discuss and understand possible commercial-ready HRS toward FCV commercialization around 2015 and beyond.

Topic	Contents
Learning Experiences and Social Acceptance	It is important to exchange information on hydrogen-related barriers as well as social acceptance issues and learning experiences on HRS. <ul style="list-style-type: none"> - Incidents and proper response - Social acceptance - Demonstration experiences
Commercial-ready HRS: Hardware	For the preparation of FCV commercialization around 2015 world-wide, it is important to have common understanding and views on commercial-ready HRS among system providers and operators. <u>Operators & System Providers</u> <ul style="list-style-type: none"> - Components - CAPEX (breakdown) - Safety assurance - Market perspectives - Location selection

Organization

The workshop is organized by the METI / NEDO under the patronage of the International Partnership for Hydrogen and Fuel Cells in the Economy (IPHE).

Workshop Program

Tuesday, November 19 2013

- 08:00 – 09:00 Registration
- 09:00 – 09:10 Welcome remarks form organizer
- 09:10 – 10:40 Keynote speech / current policy on HRS / FCV
- JAPAN (METI)
- US (DOE)
- EUROPE (EC)
(30 min each)
- 10:40 – 10:50 Coffee Break
- 10:50 – 12:05 Session 1: Learning experience and social acceptance issues
from demonstration project
- California Fuel Cell Partnership
- H2Mobility / hyTRUST
- JHFC
(25 min each / including Q & A)
- 12:05 – 13:30 Lunch
- 13:30 – 15:10 Session 2 -1: HRS System – Operators
- TOTAL
- Shell Oil Products US Alternative Energies
- JX Nippon Oil & Energy
- Air Liquide
(25 min each / including Q & A)
- 15:10 – 15:25 Coffee Break
- 15:25 – 17:55 Session 2 -2: HRS System – Suppliers
- Air Products
- Powertech Lab
- Taiyo Nippon Sanso
- Iwatani
- Linde Gas GmbH
(25 min each / including Q & A)