



The 16th IPHE Steering Committee (SC) Meeting was focusing on reviewing the results coming out of the IPHE Roundtable Meeting with Stakeholders. Due to the special focus there were no extensive country presentations. But all SC representatives were asked to give a short update on new H2FC related developments in their country. Except the U.S. all countries as stated below presented without slides and gave a very brief update on their national hydrogen and fuel cell activities and developments.

Below you will find the summarized country updates, taken from the minutes coming out of the 16th SC Meeting.

Short verbal country updates

Norway informed representatives that Statoil stepped out of its hydrogen activities and withdrawn from selling hydrogen (Statoil is selling its retail business) and will only concentrate on the upstream market. Ministry of Transport and Transnova are looking into options creating an organization to run the stations. Germany offers to help with political backing and information.

France briefly outlined shifting the focus in its electric mobility plan toward including hydrogen in that plan. This has a deep echo in France and Air Liquide is pro-lobbying for the issue of hydrogen in France,

The EC mentioned some significant policy developments from the transport side of the EC. Recently new targets for the reduction of CO₂ emissions have been published in the White Paper of transport. To support this activity a European expert group has been formed to look into ways of decarbonizing the transport systems by 2050. This shall be followed up by a report of infrastructure.

The U.S. reported on its budget developments and informed the SC that the government is further emphasizing HFCs. The more detailed slides can be visited at the IPHE website as well.

Germany highlighted three topics in its update. (1) The NOW's general assembly basically presented all funded projects, achievement and how to move forward in Germany. The positive outlook/atmosphere was confirmed here as well as industry is actively developing HFC technology. (2) The reduction of costs is an issue, not only addressing R&D but also introducing business models in order to move towards market introduction. The H2 Mobility initiative comes to an end of the analysis phase now. By the end of the year industry is having an internal review, but also considers working on a more public excerpt. We need to break down the roll out into digestible phases. In Germany we are still in R&D phase but conserve the initial infrastructure for commercialization. It is discussed how an area wide coverage of hydrogen can look like in Germany and how to put this into a business model. In the next phase further investment is needed and will be discussed based on the figures that come out of H2 Mobility. (3) Market introduction of stationary FCs – There is an analysis with industry ongoing of market

introduction instruments on residential fuel cells and stationary fuel cells in industrial use. So here industry also supports the market introduction.

Brazil informed the SC that the first phase of its Fuel Cell Bus project is completed and that the market for back-up power for telecom is increasing in Brazil.

India is pursuing its R&D work on hydrogen and fuel cells which is funded by the Ministry of New and Renewable Energies. India has drafted a hydrogen road map and based on that India has set up missions regarding:

- (1) Hydrogen production – this has been implemented by a consortium of academic strategists, research organizations and industry. Besides that a number of research papers have been published in international journals which have been acknowledged worldwide.
- (2) Hydrogen storage – at Panras University and Indian Institute of Technology in Madras recently projects are ongoing in production of hydrogen through electrolyses through photovoltaic panels.
- (3) Hydrogen Applications.

Denmark (participated as an observer) announced that in last summer 20Mio dollar were convened on hydrogen electrolysis projects on top of the EU projects. Besides that Denmark has been asked by the Joint Undertaking to arrange an international conference in spring 2012, 10th of May, on electrolyses and hydrogen storage. As this falls into the time frame of the next SC meeting some coordination with IPHE is recommended.