

Italian Hydrogen And Fuel Cell Association H2IT

Newsletter October, 2007

 [National News](#)

 [International News](#)

 [Events](#)

 [H2IT in Action](#)

International News

London choses 10 US hydrogen buses for their fleet *2007-11-19*

London is buying ten American buses, made by ISE Corp, with five of them having a fuel-cell system provided by Ballard and five with modified ICE engines that run on hydrogen. Both models will also have additional hybrid features, with batteries that will store braking energy. The project is expected to cost about 10 million UK pounds (about \$20 million), which includes a full 5-year warranty for the buses. London was one of the first cities to use fuel-cell buses as part of the CUTE (Clean Urban Transport for Europe) Project. Ken Livingstone, London's mayor, has decided that the program was satisfactory enough and has ordered the purchase of new vehicles, with a target of five percent of city vehicles running on Hydrogen by 2015. For more info please visit www.lhp.org.uk

IPCC publishes fourth report on Climate Change *2007-11-17*

Ban Ki Moon UN secretary general announced the final report of the IPCC at a press conference in Valencia. The over 2.500 IPCC scientists concluded work on a 'synthesis report' of their Fourth Assessment Report (AR4) on climate change in Valencia, Spain. A 23-page draft 'summary for policymakers' of the synthesis report was published as a reference document for global policymakers. The summary indicates a 5% drop in global GDP, a 50% reduction in African crop yields, destruction of the Amazon rainforest, widespread droughts, desertification, flooding and fierce storms. Their report suggests that growth in global CO2 emissions must be curbed within seven years in order to prevent the extinction of 25% of the world's species. More info at www.ipcc.ch

IEA publishes World Energy Outlook WEO 2007 with focus on China and India. *2007-11-07*

The 2007 WEO is using three different scenarios to make forecasts to the year 2030 : a reference or 'business as usual' scenario, a high growth scenario and an alternative policy scenario. Based on reference scenario 55% more primary energy is needed than in 2005 to 45% of that energy demand will come from India and China, according to the IEA. The IEA's proposed alternative policy scenario is pointing to improvements in energy efficiency, and structural changes designed to increase energy savings to meet the projected high energy demand. Under the alternative policy, global CO2 emissions in 2030 will still be 25% higher than today while the Reference scenario projections put the increase in global CO2 emissions at 57% by 2030, due in large part to an increasing reliance on coal-fired power generation. Two-thirds of China's primary energy demands are covered by coal and China will therefore surpass the US in terms of CO2 emissions in 2007, doubling its overall CO2 output by 2030, according to the IEA. More info at click [here](#).

EC publishes second draft of the Community guidelines on State Aid. *2007-10-21*

The effect of State Aid has been difficult to measure and this Commission's proposal tries to improve this situation.

The Draft mentions that “State aid may be appropriate where the investments resulting in energy savings are not compulsory pursuant to applicable Community standards, and where they are not profitable, that is to say where the cost of energy saving is higher than the related private economic benefit”. The Commission is asking Member States for comments, the deadline is 3 November 2007. The State Aid guidelines and more information can be found [here](#).

EC proposal for a JTI for Fuel cells and hydrogen presented is out! *2007-10-09*

Raffaele Liberali, the director of the Unit Energy of DG Research, announced at the Technical Review Days of EU hydrogen and fuel cells projects in Brussels that the Commission had reached an internal agreement on the proposal for the JTI for fuel cells and hydrogen and the proposal was presented by EC president Barroso later that morning. The JTI will be managed by an Industrial Grouping of the 50 main industries active in the fuel cells and hydrogen sector in Europe. A Governing Board will prepare the Workprogramme 50 % of the votes in the Board are reserved for the Industrial Grouping and the rest for the Commission. More info at the website of the [JTI](#).

EC presents proposal for an EU Regulation on the Homologation of H2 vehicles. *2007-10-10*

On the same day as the presentation of the EC proposal for a JTI, see above, another important step in the development of a commercial infrastructure for hydrogen and fuel cell installations in Europe was announced: the Commission presented its proposal for an EU Regulation for the homologation of M and N type hydrogen vehicles (cars and small service vehicles). The proposal also includes the use of hydrogen/natural gas mixtures of any percentage, a topic that has been promoted by H2IT in the Hydrogen Working Group that has been preparing the Regulation. H2IT has urged the Commission to also speed up a regulation for L type vehicles (scooters, mopeds etc) that are currently being developed and demonstrated by EU projects as Hychain.

H2 and CO2 Capture and Storage. *2007-10-03*

At the last General Assembly of the EU Zero Emission Power Plant Technology Platform in Paris, a Flagship programme was announced to install 12 zero emission power plants in the EU by 2020 including CO2 Capture and Sequestration (CCS). Three CCS technologies will be tested of which only one, the precombustion pathway, will involve the production of large quantities of hydrogen. H2IT is monitoring a possible installation of a potential plant in Italy. For more information please visit the [ZEPP](#) website.

National News

Hydrogen Cars parking at the Quirinale, the home of Italy's president. *2007-11-19*

A small fleet of BMW Hydrogen 7s was introduced to the President of Italy, Giorgio Napolitano and a delegation of the 20th World Energy Congress (WEC) which was held in Rome. The fleet was presented to the President at the Quirinale during a summit with a delegation of the WEC led by Chicco Testa, President of the WEC. Also on hand was Andrea Castronovo, BMW Italia's CEO. ENI, in collaboration with the Linde Group, provided liquid hydrogen for the cars through a portable refuelling unit. More info on ENI's activities on hydrogen can be found at www.agip.eni.it.

Hydrogen session at World Energy Conference in Rome shows need for national strategy *2007-11-12*

The Hydrogen session organized by the ministry of Environment in collaboration with the Region of Lazio and the European Hydrogen and Fuel Cell Platform demonstrated again that without an effective national platform and

appointed officials in charge of hydrogen development at various Ministries Italy will fall behind other countries where a national strategy is already taking shape: Scandinavian hydrogen Partnership, UK, Germany, Slovenia (next EU presidency). H2IT again wrote a letter to the Italian Ministries on November 26 to urge for more concrete action at national level and to appoint staff dedicated to hydrogen and fuel cell development.

JTI for fuel cells and hydrogen presented in Rome. *2007-10-16*

Raffaele Liberali the director of the Energy Unit of DG Research of the European Commission comforted ENEA, the Italian Energy Research Agency in mentioning the inclusion of a vote for the Research community in the Governing Board of the JTI. At the meeting, organized by ENEA on October 16 in Rome, the final results of the Hyways project and the JTI proposal were featured. The Ministry of Environment presented its initiative to revamp the National Platform for hydrogen and fuel cells. ENI presented its plan for 12 new hydrogen/CNG mixture stations in the next two years and a portable liquid hydrogen fuelling station developed by the Linde Group near Rome with a small fleet of BMW cars. ENEL the Italian power company was less positive on the role of hydrogen.

Milan candidate for the WorldExpo 2015 *2007-10-05*

The Mayor of Milan, Laetizia Moratti, presented the official document that proposes the City of Milan as the host of the WorldExpo 2015. The Expo will last 6 months with a total proposed budget of € 4,1 bln divided among public and private investments. The theme of the Expo proposed by Milan is: "Feeding the world, energy for life". The main location of the WorldExpo will be close to Milan's main new fairgrounds where parks and waterways will connect different pavilions. Clean vehicles will provide transport to the different locations and H2IT has discussed the need to start developing an infrastructure for the use of hydrogen vehicles at the Expo with the Secretary for transport of Milan in a meeting on October 20. A visit by the BIE, the Bureau internationale des expositions from October 21-23 to inspect Milan's proposal seemed to have had a positive conclusion. The other candidate is Smirn in Turkey.

BMW Hydrogen 7 series for the Governor of Lombardy. *2007-10-03*

The governor of the Region of Lombardy, Roberto Formigoni, received a BMW Hydrogen 7 from the new BMW Italia president Andrea Castronovo on the occasion of the inauguration of the fourth lane of the highway Milan-Bergamo. H2IT has suggested to develop a true hydrogen "Hyway" along this route and connect it to Venezia and Turin where hydrogen projects are already under way.

Fiscal incentives for energy *2007-10-01*

The new government budget, the so-called Finanziaria 2007, foresees a prolongation till 2008 of current incentives for energy efficiency with reductions of 55% of initial costs. The incentives are regarding insulation, thermal solar panels and efficient condensation boilers. The incentives for 2007 were still in experimental phase and it is foreseen that in 2008 more concrete results will be achieved. On the site of the Italian [National Energy Research Agency ENEA](#) it is possible to verify online energy and CO2 reductions resulting from the measures.

H2IT in Action

H2IT attends EHA National Association Workshop.

2007-10-30

The National associations of France, Germany, Hungary, Italy, Netherlands, Slovenia, Spain, Sweden and Switzerland shared their ideas with André Martin, the new director of the interim structure of the JTI, the fchstruct project. Mr. Martin pointed to four areas of joint collaboration with the EHA and its now 14 national members associations:

- support collaboration with national and regional managers of hydrogen and fuel cell programmes to align them with the JTI work programmes;
- dissemination of JTI project results;
- collaboration in stakeholder events;
- education and promotion: facilitating the development of standardized training modules as the H2 Training project is providing.

All presentations are put on the [EHA website](#) including the report of the workshop.

H2IT Roadshow hits CREA Verona! *2007-10-25*

H2IT has made a pitstop with its Roadshow at the CREA (Airconditioning, Heating, Energy and Environment) Fair in Verona for 23-25 October. H2IT organized a workshop at the Fair on the role of hydrogen in reducing CO2 emissions. Dott. Lo Russo and dott. Bianchin (Università di Padova) discussed recent hydrogen storage developments, dott.ssa Mazzanti (SOL) presented the production and distribution of hydrogen in Italy, and Ing. Zerbinato (ICI caldaie) demonstrated the role of fuel cells in producing power and heating onsite. The session was moderated by , Ing. Mattotea (H2IT) coordinator of the H2IT roadshow who referred to the study published by the European Hydrogen Association on "Where does the energy for hydrogen production will come from?" In collaboration with FAST a stand was created in which the hydrogen and fuel cell technology was explained. H2IT promoted the Roadshow's website where requests for pitstops of the Roadshow can be made online and where information on important EU project results can be found: the training manual developed by the H2 Training project is a good example..

H2IT in Budapest. *2007-10-24*

H2IT presented the Hyapproval project in Budapest during a seminar organized by the Hydrogen Section of the Hungarian Energy association. There is an interest to use wind energy to produce hydrogen as the allowed quota for wind parks have been allocated but more potential wind power is available. The introduction of hydrogen buses was discussed as well.

H2IT in H2 Training *2007-10-05*

H2IT attended the Transnational Meeting of the H2 Training project in Zaragoza. H2IT is dissemination coordinator of the H2 training project that is developing a training manual for technical personnel on the use of hydrogen and fuel cells. The manual will be presented at a seminar that H2IT is organizing in collaboration with FAST on December 13, 2007 at FAST in Milan. The seminar will also feature the training activities of the HYCHAIN project that is demonstrating small hydrogen vehicles in four regions in Europe. More info on the H2 Training project can be found [here](#) and on the Hychain project [here](#).

Events

Codes and Standards TF Seminar *2007-09-27*

A new updating and deepening seminar organized by Codes and Standards Taskforce (coordinator doct. Aldo

Bassi) is foreseen for December 14, 2007 on FAST building (Milan). Topics of the seminar are: methane/hydrogen mixture and refueling station codes update and the participation by an EU expert. Final program will be communicated in the next weeks.

Education and Dissemination TF activities *2007-09-25*

Education and dissemination Taskforce worked in these last months at the "Hydrogen hits the roads" web site and defined some roadshow stops in Italy. An updating seminar is foreseen by March 2008 within a didactic or school national conference.