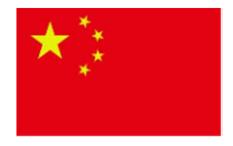
Country Update: China



Li Xin, Pan Xiangmin

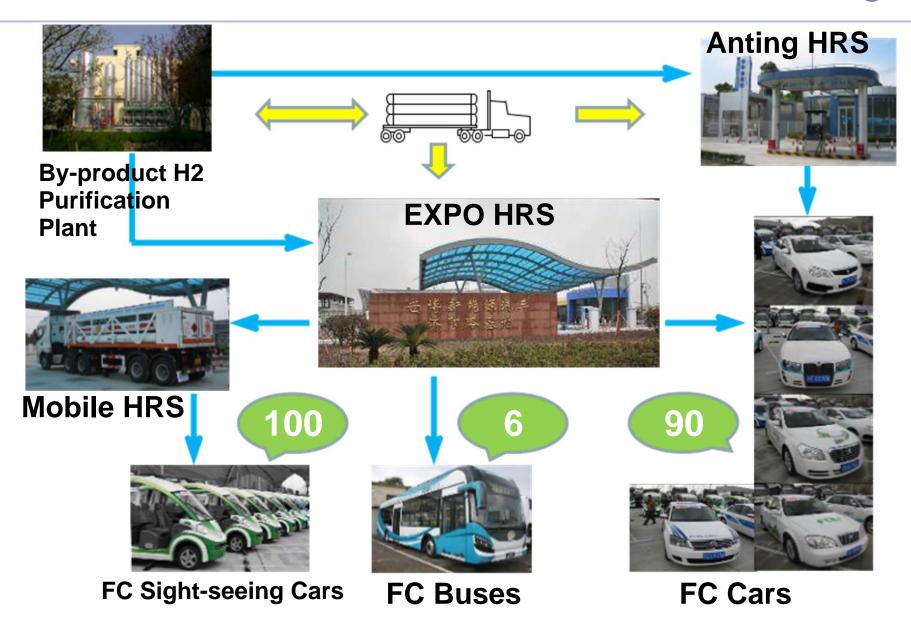
Ministry of Science and Technology Tongji University

> Joint 13th IPHE ILC/SC Meeting, May 14-15, 2010, Essen, Germany





H2 & FCV Demonstrations in EXPO 2010 Shanghai





FCVs in EXPO 2010 Shanghai

- A total of 1,017 clean-energy vehicles are used to carry visitors during the Expo, including 196 FCVs.
- These FCVs are manufactured by SAIC, GM, Shanghai Volkswagen, FAW-Volkswagen, ChangAn and Chery.







By-product H2 Purification Plant

 The demo facility for COG purification in Shanghai Coking & Chemical Co. was expanded by adding a second installation.

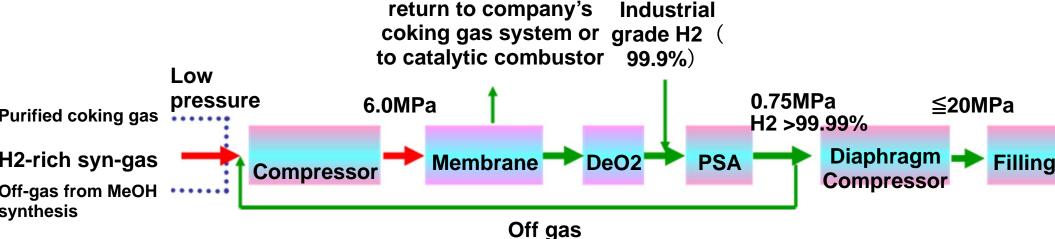
Technology: Membrane + PSA

Capability: 280 Nm3/h

H2 Purity: >99.99%

H2 recovery: >85%







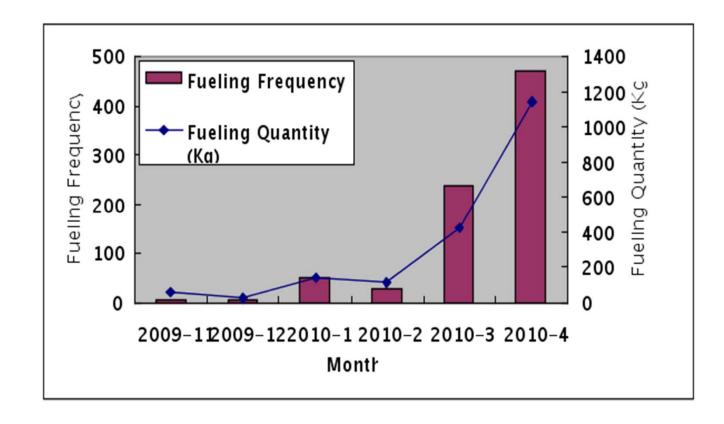
Anting Hydrogen Refueling Station



 As the first HRS in Shanghai, Anting Station has been operated about three years, and greatly supported the development of FCV in Shanghai.









EXPO Hydrogen Refueling Station

 Co-built by Shanghai XinaoJiuhuan Vehicle Energy Co., Shanghai Sunwise Energy System Co. and Tongji Univ., the new HRS began test operation on April 15. The station is 2.4 km away from the Expo Site.

Station type: Trucked-in Station

Filling pressure: 35MPa (4 dispensers with 7 nozzles)

Storage pressure: 43MPa

Storage capacity: 900kg(Max)













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EXPO Mobile Hydrogen Refueling Station



 Developed by Shanghai Sunwise Energy System Co., two mobile HRS were put into operation on April 15.

Filling pressure: 35MPa Storage pressure: 43MPa

Storage capacity: 80kg(each)



- Daytime: Refueled at Expo Station and parked there.
- Nighttime: Enter the Expo Site, supply Hydrogen to the Fuel Cell Sight-seeing Cars.



FCVs Bases in EXPO 2010 Shanghai

 Three FCV bases were established to ensure the operation, dispatch and maintenance of the vehicles. The FC Sight-seeing cars base is inside the Expo Site. The other two bases are near to Expo HRS and Anting HRS respectively.









Thank you &

Welcome to Shanghai in September.

