



International Partnership
for Hydrogen and Fuel Cells
in the Economy

China Update

31st IPHE Steering Committee Meeting

10 – 11 April 2019

Vienna, Austria

Announcements and/or New Initiatives (China)



• Investments/Funding

9 projects from MOST

“Renewable Energy and Hydrogen Energy Technology” Program

154.61 million RMB (US\$ 22.97 million) from central finance

No.	Project name (main information)	Lead agency	Funding (million RMB) (US\$ million)	Duration (year)
1	Decomposition of water to produce hydrogen by solar energy	Xi’an Jiaotong University	11.92 (1.77)	4
2	Hydrogen storage materials and hydrogen storage systems	South China University of Technology	15.75 (2.34)	3
3	Hydrogen production by solid polymer electrolyte (SPE) electrolysis water	Changchun Institute of Applied Chemistry, Chinese Academy of Sciences	17.59 (2.61)	3
4	Large-scale wind/light complementary hydrogen production (demonstration)	China Energy Group	26.18 (3.89)	3

Announcements and/or New Initiatives (China)



No.	Project name	Lead agency	Funding (million RMB) (US\$ million)	Duration (year)
5	Basic research for solid oxide fuel cells (SOFC)	Tsinghua University	8.86 (1.32)	4
6	Novel fuel cell research based on low cost material system	Wuhan University	9.35 (1.38)	4
7	Engineering technology for proton exchange membrane fuel cell (PEMFC)	Tongji University	28.62 (4.25)	4
8	SOFC stack engineering development	Chaozhou Three-Circle (Group) Co.,Ltd.	27.69 (4.11)	4
9	Test technology development and prototype engineering application of PEMFC stack and auxiliary system components	China Automotive Engineering Research Institute Co. Ltd.	8.65 (1.29)	3

Announcements and/or New Initiatives (China)



- **New research & development, demonstration and or deployment activities**

New FC buses for public transportation on December 2018

Date	City	Province	Number	Bus Line
December 21 st	Foshan	Guangdong	70	139, 143, 156
December 24 th	Zhengzhou	Henan	20	727
December 31 st	Yancheng	Jiangsu	10	K11

More FC buses are on the way in many cities.

Examples of Lessons Learned and Impact

(China)



Program initiative, policy, regulation or mandate	Lessons Learned/Outcomes
<p>Catalogues on Encouraged Foreign Investment in Industry (draft for comments) (01/02/2019) By the National Development and Reform Commission and Ministry of Commerce</p>	<p>Encourage investment and technology on hydrogen and fuel cell, both from domestic and international stakeholders.</p>
<p>Green Industry Guidance Catalogue (2019 Edition) (05/03/2019) By the National Development and Reform Commission, Ministry of Industry and Information Technology, Ministry of Natural Resources, Ministry of Ecology and Environment, Ministry of Housing and Urban-Rural Development, the People’s Bank of China, and National Energy Administration</p>	

Applications - Current Status and Goals

(China)



Application	Status (As of April, 2019)	Goal (For 2020)
Fuel cell vehicles	60	10000 for all
Hydrogen stations	11	No
Fuel cell buses	270	10000 for all
Electrolyzers	0	No
Primary fuel cell power units	1	No
Backup power fuel cell power units	50	No
Power to gas	1 (100 MW)	No

Thank you



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