



China Society of Automotive Engineers

H2 Valley in China

Yali Zheng China Society of Automotive Engineers March 2019

Vision of The Hydrogen and FCV

Entrusted by MIIT and the National Power Strategy Advisory Committee, China SAE organized more than 1000 experts from industries, universities, research institutes and other organizations completed the Energy-saving and New Energy Vehicle Technology Roadmap which was released in October 26, 2016.



Local governments actively deploying the hydrogen and FCV industry

At present, China has initially formed H2 and fuel cell demonstration and promotion areas, such as JJJ-region, Yangtze river delta, pearl river delta, etc.

Favorable environment of Hydrogen and fuel cell development is forming.



Beijing-Zhangjiakou



Other Applications planned:

- power-heat cogeneration in communities
- Backup power
- Blinding H2 into natural gases pipelines

Foshan



HRS: 1 in operation, 9 under construction



Location

- ✓ Located in the Center of Guangdong and Pearl River Delta
- \checkmark In the west of Guangzhou
- ✓ Near Hongkong and Macau

FCV: 50 including, Buses: 14 Logistics vehicles: 35 Refrigerated trucks: 1

Yangtze River Delta hydrogen corridor construction and hydrogen economic integration development planning

Short-term : Form inner- and intercity connections 3 H2 highways Shanghai\Jiangsu\N antong\Huzhou Middle-term : 10 H2 Highways Connecting main cities within Yangtze River Delta

Long-term : H2 network within Yangtze River Delta







Barriers and suggestions

Barriers

- Cost (hydrogen, FCV)
- Lower the emission to reach life cycle emission reduction
- Lack of HRS
- Policies and awareness

Overcome

- Demonstration and scale up
- R&D to reduce cost
- Incentives in the beginning phase

• Suggestions for information sharing within IC-8

- Experiences and plans to form hydrogen supply system
- Assessment of the technology and application scenarios

THANKS!

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