



International Partnership  
for Hydrogen and Fuel Cells  
in the Economy

## *China* Update

36<sup>th</sup> IPHE Steering Committee Meeting

16 – 17 November 2021

Virtual Meeting

# Announcements / New Initiatives *China*

- **Policies (National)**

- **Oct. 24<sup>th</sup>, Xinhua News Agency**

“Opinions of the Central Committee of the Communist Party of China and the State Council on the complete, accurate and comprehensive implementation of the new development concept to do a good job in carbon peak and carbon neutrality”

- **Oct. 26<sup>th</sup>, State Council**

"Carbon Peak Action Plan by 2030"

The "Plan" mentioned **hydrogen energy 11 times** and made detailed plans for the hydrogen energy industry.

# Announcements / New Initiatives *China*

- **Investments/Funding**

- **Jun. 9<sup>th</sup>, China Development Bank**

"Working Plan for Supporting the Energy Sector to Achieve the Strategic Objectives of "Carbon Peaking and Carbon Neutrality""

Pilot demonstration of energy storage and **hydrogen energy** will be supported.

- **Jul. 13<sup>th</sup>, State-owned Assets Supervision and Administration Commission**

More than one-third of the central enterprises are already formulating the layout of the entire industry chain including **hydrogen production, hydrogen storage, hydrogen refueling, and hydrogen use.**

# Announcements / New Initiatives *China*

## • Investments/Funding

### ➤ **Sep. 13<sup>th</sup>, Ministry of Science and Technology**

"Notice on the Application Guidelines for the 2021 Targeted Projects of the National Key R&D Program

"Hydrogen Energy Technology“.”

- 1 targeted project in the direction of "**Hydrogen Enters Ten Thousands Homes**" comprehensive demonstration technology.
- **150 million CNY** ( $\approx$  23.5M USD) from the state. The ratio of self-raised funds, local fiscal funds and state-appropriated funds:  $\geq$  **3:1:1**.
- Project implementation period:  $\leq$  4 years.
- **Shandong** Provincial Department of Science and Technology as the recommended unit.
- $\geq$  **3000 FCV**,  $\geq$  **15 HRS**, cumulative operating mileage  $\geq$  **100M km**, hydrogen usage  $\geq$  **10,000 tons**, hydrogen usage of fuel cell combined heat and power  $\geq$  **10,000 tons**.

# Announcements / New Initiatives *China*

- **Investments/Funding**

- **Oct. 11<sup>th</sup>, Ministry of Industry and Information Technology**

- “Final review of the 2016-2018 new energy vehicle promotion and application subsidy funds liquidation review”
- “2019-2020 review of the advance appropriation of subsidy funds”

**1,302** FCVs, total subsidy = **562.94M CNY** (≈ 88.2M USD), 0.43M CNY (≈ 67,241 USD) per vehicle

# Announcements / New Initiatives *China*

- **Demonstration/Deployment Activities**

- **Aug. 31<sup>st</sup>, Ministry of Finance, Ministry of Industry and Information Technology**

**Ministry of Science and Technology**

**National Development and Reform Commission, National Energy Administration**

“Notice on starting the demonstration application of fuel cell vehicles ”

- **Beijing**, Tianjin, Hebei (Baoding, Tangshan), Shandong (Binzhou, Zibo)
- **Shanghai**, Jiangsu (Suzhou, Nantong), Zhejiang (Jiaxing), Shandong (Zibo), Inner Mongolia (Ordos), Ningxia (Ningdong)
- **Guangdong** (**Foshan**, Guangzhou, Shenzhen, Dongguan, Zhuhai, Zhongshan, Yangjiang, Yunfu), Fujian (Fuzhou), Inner Mongolia (Baotou), Anhui (Luan)

# China – Profile November 2021

Status of Deployments	Leading Government Initiatives	Funding
~ 7355 FCV ~ 118 HRS (till Dec. 2020)	<ul style="list-style-type: none"> <li>➤ 2030, Carbon peak</li> <li>➤ 2060, Carbon neutral</li> </ul>	≤ 18,700/single city group (1.87 billion CNY) (~0.29 billion USD)

## Deployment Goals

### ➤ Fuel Cell Vehicle Promotion and Application

In the first, second, third, and fourth years, the average accumulated hydrogen mileage of bicycles ≥75,000 km, 15,000 km, 22,500 km, and 30,000 km, respectively.

### ➤ R&D industrialization of key components

≥500 sets of each product used in the demonstration city cluster, actual vehicle operation verification of the product exceeds 20,000 km.

### ➤ Hydrogen Energy Supply

Actual amount of hydrogen used in vehicles, the mileage of pure hydrogen.



# Thank you



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