

#### **Projects in China and Women's Stats**

Women Moving the Decarbonization Industry: Insights from Developing Countries and Emerging Markets



International Hydrogen and Fuel Cell Association (IHFCA) May 9th, 2024

### **IFEA**

#### **Women's Statistics in China**

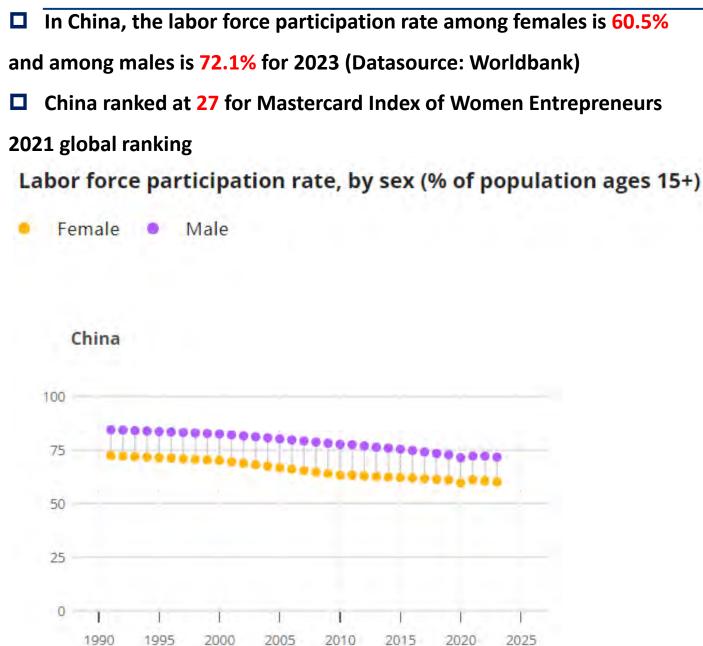
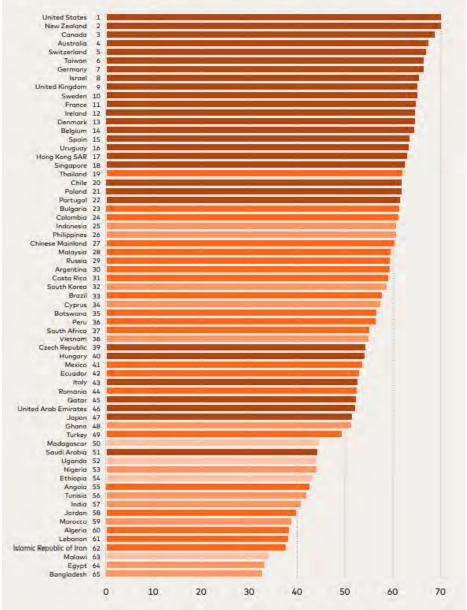
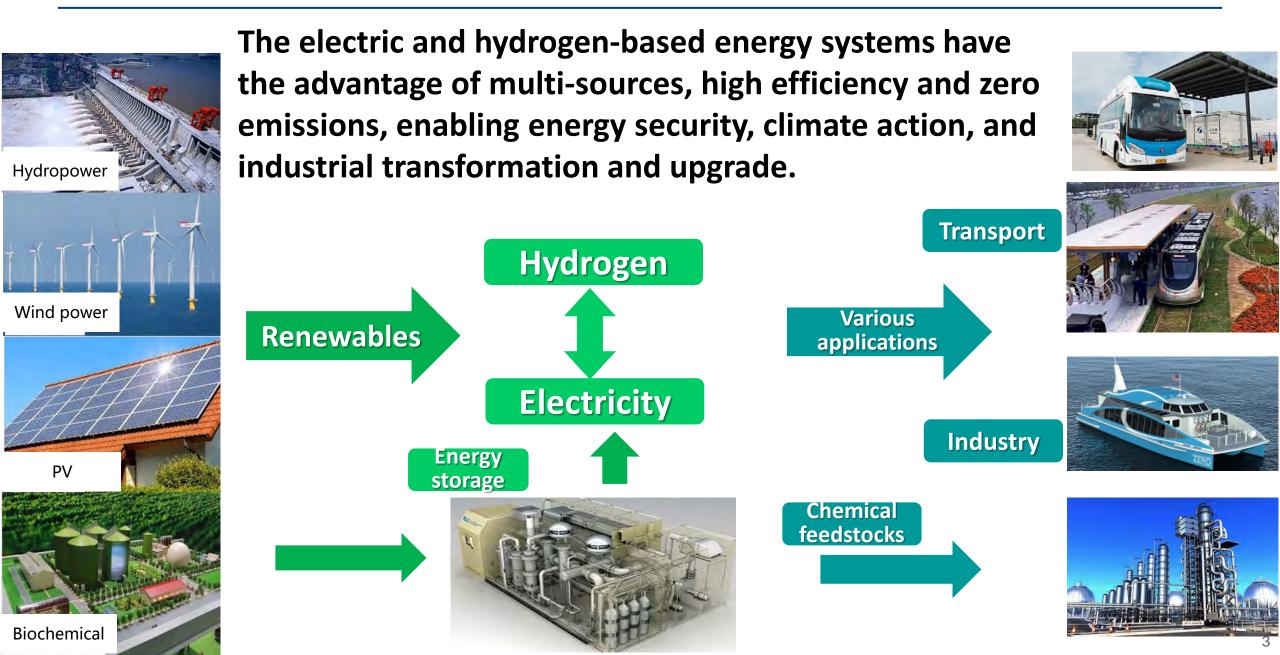


Fig. 2.2b: Mastercard Index of Women Entrepreneurs 2021 global ranking



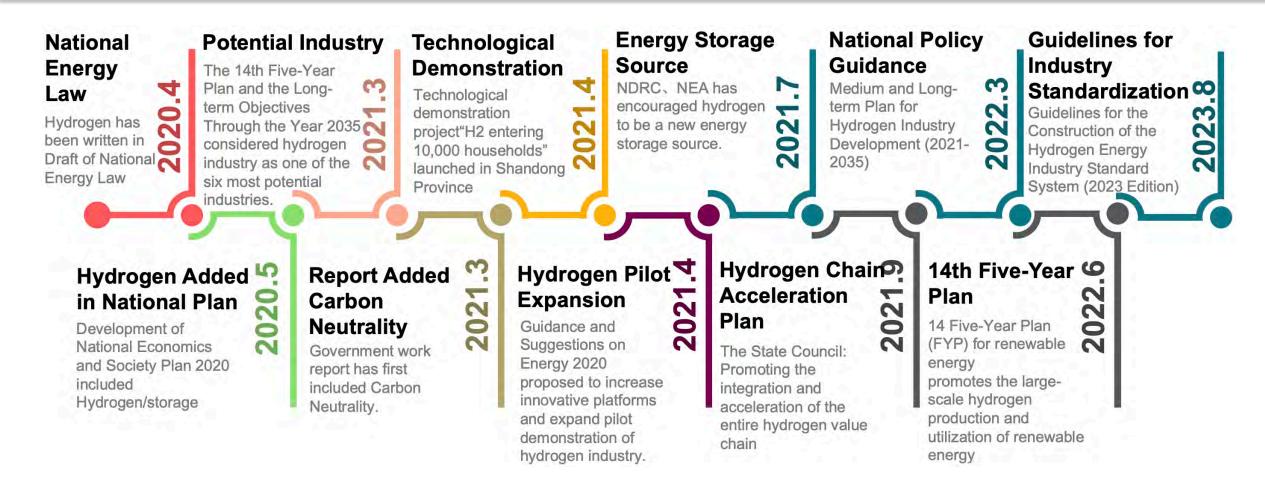
#### Develop an integrated H2 energy system for the "30.60" de-carbonization goal



#### **China's Hydrogen Energy Policy Landscape**



In recent years, China has increasingly recognized hydrogen energy as a pivotal pathway for carbon reduction. This shift is evidenced by the issuance of multiple national-level guidelines and policy directives aimed at standardizing and accelerating the development of the hydrogen energy sector.





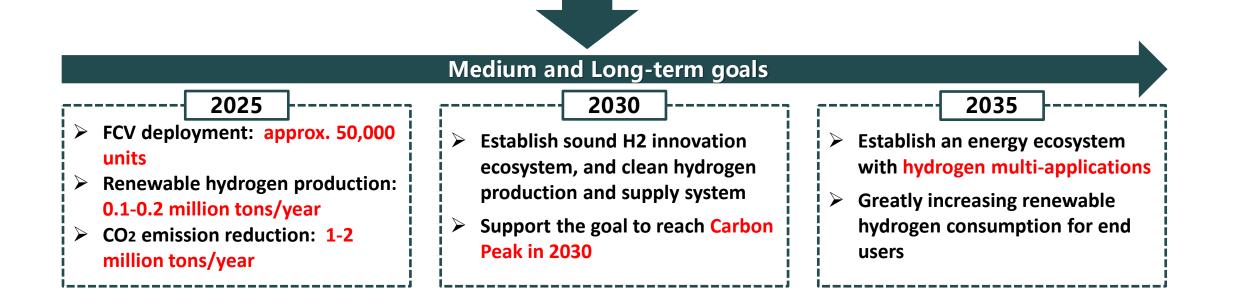
#### □ In March 2022, NDRC and NEA jointly released the *Medium and long-term Plan for the*

Principals

#### Development of Hydrogen Energy Industry (2021-2035)

- An essential element of future national energy system Strategy
  - A key direction of strategic and emerging industries
  - An important carrier of green low-carbon transformation

- Driven by innovation, self-reliance
- Safety first, clean and low-carbon
- Driven by market, guided by the government
- Steady applications, led by demonstration



#### **Beijing Winter Olympic Games: the world's largest hydrogen demonstration**

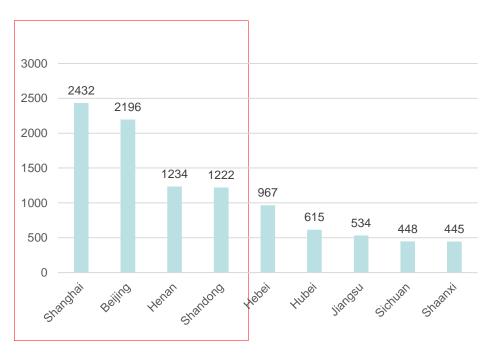
- Near 1,200 FCVs demonstrated at the Beijing Winter Olympics and Paralympics, realizing total carbon reduction 2,200 tons
- About 50% of green H2 used at the Zhangjiakou Site generated from onshore wind P2G in the City's H2 demonstration base



#### FCV demo city clusters with cross-regional and collaborative development

- In 2021, the five Ministries and Commission announced that the FCV demonstration city clusters will mainly be located in Beijing-Tianjin-Hebei, Hebei, Henan, Shanghai, and Guangdong.
- □ With the five city clusters as the backbone, a unified plan is in consideration to build a comprehensive, cross-region, and integrated Hydrogen Demonstration Highway.



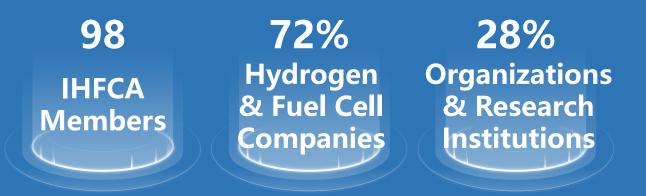


China's registered FCVs in nine provinces and cities (2015-2023H1)



## IHFCA was officially established in July 2022

The only international technical organization over the past decade headquartered in China



- Launched by China SAE, FORVIA, Toyota, Hyundai, SAIC, Sinopec, AngloAmerican, Tsinghua University & other leading companies and organizations
- Approved by The State Council of the People's Republic of China
- The headquarter is located in Beijing
- In the Secretariat, women workforce ratio is 60%, and the top to middle management are all women





**IHFCA** License

#### Business System & Scope



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Business System	Hydrog	en	Fuel Cell	Fuel	Cell Vehicle
Industry and Policy Studies	Research on industry policies, strategies and plans				
Standards & Regulations	Develop national and international hydrogen, fuel cell and FCV standards				
International Communications	Strengthen worldwide cooperation with various activities and effective platforms				
		<b>æ</b>	(	8-8	
Business Scope	Academic Exchange Cooperation Mechanism and International Programs	Industry Research Promote Policy and Regulation Formulation	IHFCA Standards Industry Promotion and Popularization	Collaborative Innovation Facilitate the Transformation of Technological Achievements	Member Service Customized Project, and Build Cooperation Platform

www. ihfca.net

#### **GEF6:**The Shanghai demonstration of Integrated Adoption of New Energy Vehicles in China

A city-level vehicle-grid integrated energy management platform was established,

75 smart charging stations, 876 smart charging piles, 11 optical storage and charging microgrids, 250 electric vehicle outlets totalling 8,105 vehicles were built, forming a fleet of 250 rental electric buses.

Three special studies and research on local policies were carried out. and 15.28 million kilowatt-hours of peak-to-valley storage was realized.

A total of 2.67 billion kWh of renewable energy was generated

Carbon dioxide emissions reduced by approximately 138,500 tonnes.

18 companies in the fields of energy, vehicle manufacturers and other areas participated in the project and yielded great results.



#### FCVC 2023: Steadily increased maturity of hydrogen energy industry products



IHFCA' s signature event FCVC2023 showcased the latest hydrogen fuel cell passenger vehicle/commercial vehicle research and development progress, hydrogen production, storage and transportation related equipment and equipment, hydrogen fuel cell stack system and core components, hydrogen power test platform and software/certification technology, and components related advanced processing technology and manufacturing technology and other related exhibits.



Shanghai Hyfun Energy—ton-level magnesium-based solid-state hydrogen storage and transportation vehicle



Dech Future Proton Fuel Cell Light-duty Truck



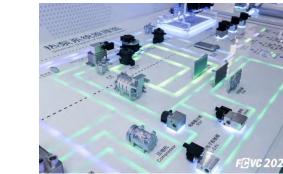
The new Hongqi H5-FCV hydrogen fuel cell sedan



Deepal Automobile - S7 hydrogen fuel cell SUV



Fuel cell system accessories



Fuel Cell Tube Valves

FTXT Energy vehicle-mounted IV hydrogen storage bottle



Hyundai Modern fuel cell stack



FGA

INTERNATIONAL HYDROGEN FUEL CELL ASSOCIATION

# **THANKS!**

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