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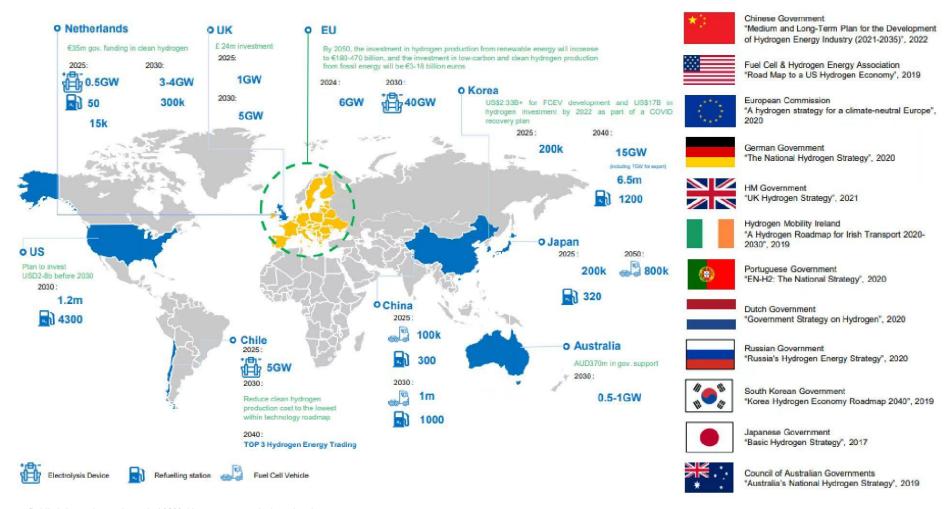


Hydrogen Development in the World and China



1,000+ projects

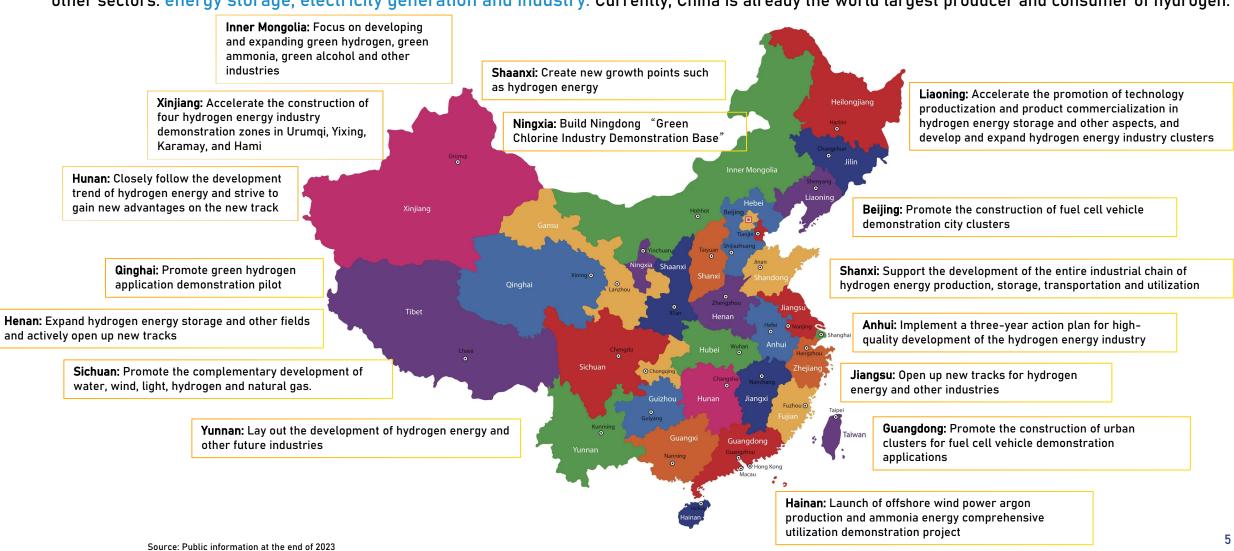
announced hydrogen projects in published by the Hydrogen Council



Hydrogen Development in China



The Chinese government laid out a medium- and long-term development plan for hydrogen, for the period 2021-2035. China targets to bring 50,000 hydrogen fuel-cell vehicles on the road by 2025 and to build a number of hydrogen refuelling stations. The plan targets green hydrogen production using renewable feedstock resources to reach 100,000-200,000 tonnes per year by 2025. Besides transport, the plan envisages the use of clean hydrogen in other sectors: energy storage, electricity generation and industry. Currently, China is already the world largest producer and consumer of hydrogen.



Field-proven in China & Expansion Overseas



In China, the annual carbon dioxide emissions of **heavy-duty trucks** account for about **54%** of all vehicle models with only about **4%** of the total number of road vehicles, making them the key vehicle type in reducing carbon emissions from all vehicles.

49T heavy duty truck 15% lower than average industry level

Mobile Applications

Stationary Applications



























Field-proven in China & Expansion Overseas



Successful applications on trucks and buses at home and installed on the 1st Chinese-made exported HFC bus

For HFC Trucks



HFC heavy truck

- 49T heavy truck with Sinosynergy SynRoad G110 has delivered to Beijing-Tianjin-Hebei region and the Yangtze River Delta for demonstration
- 100 trucks has been delivered to XCMG officially in 2022 and 1,000 trucks will be promoted on or before 2025





- Largest HFC truck fleet around the globe, with 2,000+ logistic trucks with Sinosynergy's products onboard as of 2019
- Commenced operation in mid-2018, served as an integral part to JD.com's logistics network nationwide during the "Double 11" and "Double 12" shopping festivals
- Cumulative mileage has reached over 20mn kilometers as of 2019

For HFC Buses

Foshan / Yunfu Demonstration

HFC Bus Routes

- 28 11m HFC buses deployed since 2016
- 150,000km mileage to date with minimal performance degradation
- World's largest HFC bus fleet deployed at the time



Export to Sarawak, Malaysia

- 1st Chinese-made HFC bus model ever exported, with Sinosynergy's fuel cells installed
- Initial batch delivered in 2019



Foshan HFC Bus Deployment

 900+ 8.5m HFC buses deployed in Foshan since December 2018



Hydrogen-powered Forklift

 In 2022, Sinosynergy and Jungheinrich launched hydrogen-powered forklifts in Shanghai

Field-proven in China & Expansion Overseas (cont'd)



 Additionally focus on various other attractive downstream verticals in parallel to main CV business, paving avenues to incremental market opportunities

HFC Tram in Collaboration with CRRC









- Extensive collaboration with CRRC in industry stan-dards drafting, system R&D, and trials
- 1st commercially viable HFC tram model commenced operation in 2017
- In 2021, the world's first hydrogen-powered Digital-rail Rapid Transit
 Tram was launched in Shanghai

HFC Marine Engine & Ship





R&D agreements with vessel OEMs and operators













Field-proven in China & Expansion Overseas (cont'd)



Increasing project development in stationary power generation systems

HFC Mobile Emergency Power Supply Unit





- On-the-go units equipped with power stored in HFC systems catering to ad-hoc electricity demand
- Suitable for even-driven capacity back-up and natural disaster relief amid disrupted grid supply
- China Tower backup power station has been in stable operation since 2016

The world's first practical and scaled zerocarbon distributed energy center demonstration project







世界首个! 榆林科创新城零碳分 布式智慧能源中心示范项目建成 投用

議議 政务: 榆林发布 2022-08-02 10:

8月1日,世界自个实用化和规模化等城等 整能源中心一榆林科创新城等碳分布式管 慧能源中心示范项目建成投用。该项目在 世界上首次实现了含氢能的等碳多能源供 需系统的实用化和规模化示范应用,为实 现碳达峰、碳中和目标提供了新的技术路 径。

- Through photovoltaic panels, Yulin's abundant solar energy resources can be converted into electricity.
- A hydrogen electrolyzer extracts hydrogen from water using surplus electricity. During the electro-chemical reaction between hydrogen and oxygen, fuel cells generate electricity and heat.
- In Henan, a similar project has been implemented as well.

The First Pilot Project of Hydrogen Power Generation in Hong Kong









國鴻國龍 打造香港首個氫能發電示範項目 爲建築業注動力



Field-proven in China & Expansion Overseas (cont'd)



 Sinosynergy has been working closely with global partners to promote the development of hydrogen energy and jointly build a cleaner and greener future.



Exported HFC Buses to Malaysia in 2019

In March 2019, a batch of hydrogen fuel cell buses has been exported to Maylasia to provide more convenient and low-carbon transportation method to local residents.













The world's first hydrogen-powered smart tram equipped with fuel cell systems of Sinosynergy has started on-road testing in Malaysia on 6th September 2023!

World's Largest Capacity Enabling High Quality Mass Production



- World's largest HFC stack and system production capacity, simultaneously supplying key HFC components
- Highly automated flow with locally patented equipment, providing a high degree of reliability and customization





30,000

Annual Hydrogen Fuel Cell Stack Production Capacity of One of the Largest Production Line

10,000

Annual Hydrogen Fuel Cell System
Production Capacity of
One of the Largest Production Line



#1 Globally

> HFC Stack & System Production Capacity



Quality Excellence

Strict Compliance with Ballard Standards with even Higher Product Conformity

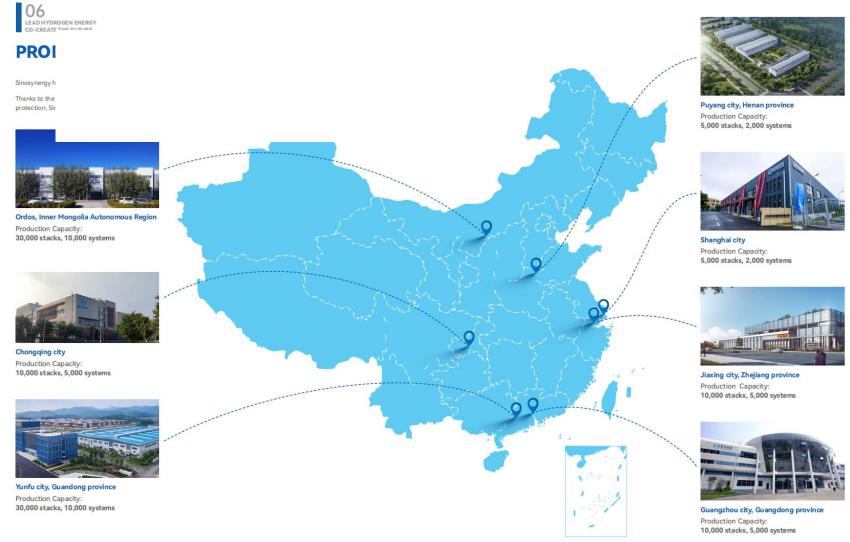
- Production capability of flexible graphite bipolar plate with annual capacity of 5mn units
- ✓ High level of vertical integration for effective cost control and extra degree of customization
- Exceptional performance consistency across different batches, verified useful life of 30,000 hrs
- ✓ Fully locally-patented equipment and localized production

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World's Largest Capacity Enabling High Quality Mass Production



Sinosynergy has one of the world's largest fuel cell stack production lines and continues to expand its production capacity.







Industry Outlook

Optimal Clean Energy Solution for the Global Auto Industry



 Governments worldwide are targeting the phase out sales of new internal combustion engine ("ICE") vehicles starting from 2025, paving ways for rapid roll-out of HFC vehicles as an attractive alternative

Core Advantages of HFC Vehicles

Side-by-side Comparison between Vehicle Types



Life-long
Environmentalfriendliness



Strong Environmental Adaptability



Fast Refueling of Hydrogen



High Energy Conversion Efficiency



Robust Mileage & Range Performance



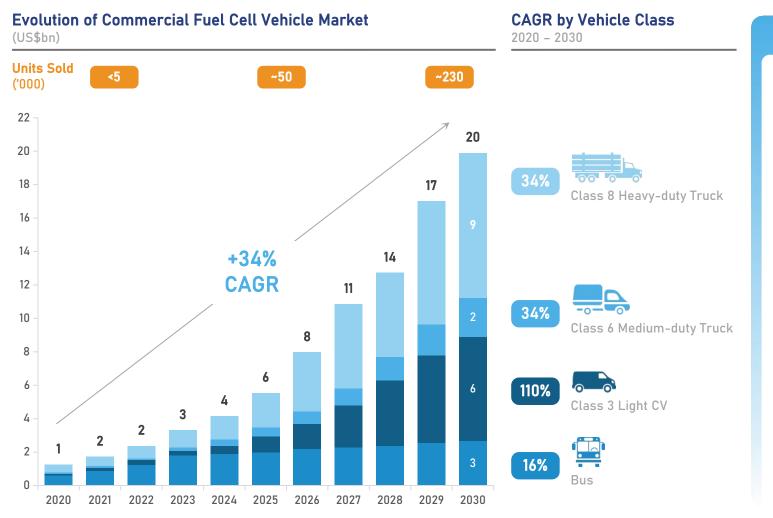
Compatible with Prevailing Driver Habits

	ICE Vehicles	HFC Vehicles	Battery EVs
Energy Efficiency	24 – 30%	50 - 60%	-
Emission & Recycling	Emitting CO ₂ and other greenhouse gasses, NO _x , SO ₂ and particulates	Water as the only emission. Environmental- friendly throughout lifecycle	Potential pollutions during production and recycling
Mileage	500 – 600km	500 – 600km	100 – 200km
Refueling Time	Within minutes	Within minutes	Several Hours
Operating Temperature	-30 − 45 °C	-30 − 45 °C	-10 - 45 °C

Large Addressable Market at an Inflection Point



Global commercial fuel cell vehicle market is projected to grow at 34% CAGR to US\$20bn in 2030, driven by policy tailwinds, rapidly falling costs, and governments' strategic planning worldwide



Key Drivers



- Global policy tailwinds advocating for clean energy transition and reducing carbon emission
- 60+ countries committing to zero net emission by 2050, incl. China



 Falling cost of hydrogen technologies and products from economies of scale

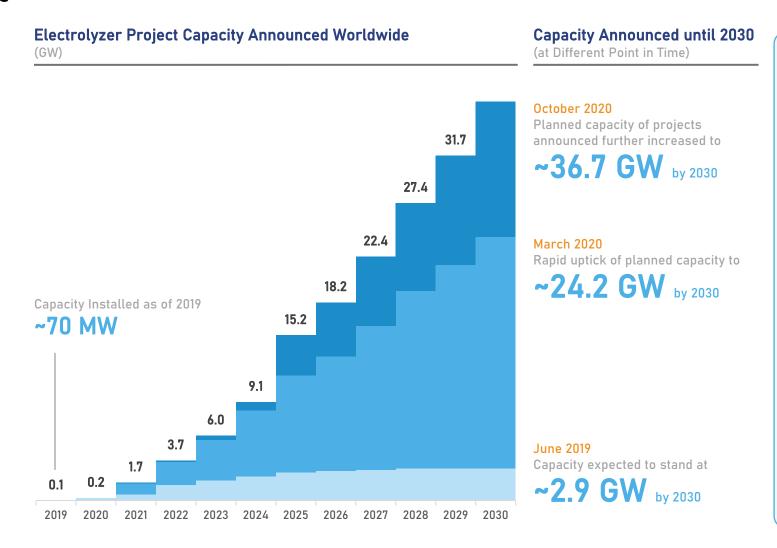


 Roadmaps set forth in national strategies worldwide, committing to a cumulative rollout in 2030 of 10mn HFC vehicles

Supported by Expanding Global Upstream Capacity...



Rapid scale-up of hydrogen production capacity of 360x growth to 2030 globally, with mid-term commitments for 2030 rose tenfold in c. 24 months



10x

In commitments of announced projects in past c. 24 months

50%+

Growth headroom to global govts' target of 75GW by 2030

65%+

Potential for CapEx decline (to US\$350 - 400/kW) due to economies of scale

... and Ambitious Plans for Refueling Infrastructure Worldwide



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 Governments around the globe have been endeavoring to accelerate the development of hydrogen refueling networks over the next decades, forming a solid foundation for HFC vehicle deployment







Appendix

COMPANY PROFILE





⊕ Hong Kong

Global Business Distribution

® Cana da ® France ® Germany ® Italy ® Malaysia ® Turkey

Established in June 2015, Sinosynergy is a high-tech enterprise, committed to provide state of the art hydrogen fuel cell products and robust system solutions.

In 2017, the Company built a world-leading hydrogen fuel cell stack production base, and passed the ISO9001:2015, IATF1@49:2016 and ISO/TS22163:2017 quality system certification. Thanks to the strong independent R&D and innovation capabilities, high-quality and reliable products, and excellent service infrastructure, the accumulated market share of the company's stack products have taken a leading position in China's market over the past seven years.

2017-2023 HFC stack market share in China China's first mass production of low-cost flexible graphite bipolar plates company

ISO9001

Passed the ISO 9001:2015, IATF 16949:2016 and 50/TS22163:2017 quality system certification

200

Patents application

30,000

Annual HFC stack production capacity of one of the largest production line

5,000+

Over 5,000 vehicles powered by Sinosynergy

250,000,000+

The cumulative mileage of vehicles exceeds 250 million im-

Differentiated Proprietary & Co-developed Model Line-up



 Sinosynergy has a product portfolio spanning the HFC value chain, from stacks and modules to integrated systems and equipment for various end applications, and key ancillary components



Differentiated Proprietary & Co-developed Model Line-up (cont'd)



Sinosynergy's line-up is on the road in HFC buses, trucks and forklift with field-proven operation footprints













3 ton HFC Forklift

Differentiated Proprietary & Co-developed Model Line-up (cont'd)



Successfully passed the start-up test under -38.5°C



Leading Market Position & Diversified Client Base



- Sinosynergy is the #1 HFC stack manufacturer in China by market share
- Supported by a number of blue-chip clients from diversified downstream verticals

5,000+

CVs with Sinosynergy Products on the Road #1

2017–2023 (half year) Market Share in China ~50%

of HFC Vehicles in MIIT's Recommended Catalog¹ in 2018 Adopt Sinosynergy's Products 85%

of HFC Vehicles in MIIT's Subsidies Catalog² in 2017 Adopt Sinosynergy's Products

Multitude of Major-league Clients from Various Sectors









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