



# ONLINE HYDROGEN DISCUSSION SERIES



Inform the Dutch hydrogen sector about the latest hydrogen developments in the South China region.



Show the opportunities to the Dutch side about the South China region for business and science & technology cooperation.



Highlight the advanced developments of the Dutch hydrogen sector to the Chinese side and promote the Netherlands as one of the front runners in hydrogen technology.



Have an in-depth discussion for Dutch hydrogen players with Chinese parties to talk about concrete opportunities & challenges with follow-up match making options



Topic



Location



Date & Time



Zoom

1

Infrastructure and heavy duty fuel cell trucks  
City of Guangzhou  
October 31, 2022  
09:00 – 10:00 (Dutch time)

2

Green hydrogen production research  
City of Foshan  
November 1, 2022  
09:00 – 10:00 (Dutch time)

3

Hydrogen project developments in the port region  
City of Shenzhen  
November 2, 2022  
09:00 – 10:00 (Dutch time)

Register for free via:  
[secretariaat@nwba.nl](mailto:secretariaat@nwba.nl)  
[china@netherlandsinnovation.nl](mailto:china@netherlandsinnovation.nl)



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## GENERAL INTRODUCTION HYDROGEN IN THE SOUTH CHINA REGION

Guangdong is the region in which most hydrogen companies are registered. The developments of hydrogen policies and projects in Guangdong are among the most advanced and mature in the country, mainly due to the much earlier start compared to other cities and regions. Within the Guangdong region there are three cities famous for their hydrogen developments. Foshan, Guangzhou and Maoming. Several Dutch companies are already active in this region, such as NedStack, Teesing and KIWA SHV and Shell; the latter three also having established offices here.



## LOCAL STRENGTHS

- Mature hydrogen transportation network. In the city of Foshan is leading in China when it comes to hydrogen as application in mobility. There are already 1000 active h2 buses, 400 active delivery hydrogen trucks, 1 hydrogen tram and 20 active hydrogen refueling stations. In Guangdong province, the local government has allocated 30% of its total subsidy budget to hydrogen fuel cells and vehicles.
- Support from central government. The China central government assigned the province of Guangdong to be the leading province for hydrogen developments. The city of Foshan was assigned as the major fuel cell hub and the city of Maoming has production base. The UNDP organizes yearly one of China's largest hydrogen conferences in Foshan together with the local government.
- Complete industrial supply chain. By attracting several large, medium, and small scale enterprises, Foshan and Guangzhou offer a nearly complete hydrogen industrial supply chain, with production of fuel cell vehicles, core parts such as the fuel cell stacks, storage & transportation equipment, and refueling stations. For hydrogen production, the city of Maoming a well know player with its large petrol-chemical plant



## OPPORTUNITIES & CHALLENGES FOR DUTCH COMPANIES

- Local governments are very open to discuss with international parties for their hydrogen developments. A great example of this is the Dutch company SHV who has already two active Hydrogen Refilling Stations in Guangzhou.
- Despite all recent hydrogen technology developments, Dutch technology is still leading, creating many opportunities for Dutch companies in regions with many active hydrogen projects such as south China.
- In Guangdong there is currently the project "Green Pearl River Programme" ongoing. The provincial government is looking to make its inland shipping more green and is considering hydrogen as one of the main ways to achieve this.
- Policies and local government leaders can change suddenly or overtime which can impact the hydrogen developments in unforeseen ways. But, because of the central government's 2060 carbon neutral plans, the general direction of using more sustainable energy sources won't change.
- Finding a local reliable partner can be hard and its importance cannot be underestimated. Our team in Guangzhou is happy to help with this step



# INFRASTRUCTURE AND HEAVY DUTY FCEV TRUCKS

30 minutes of online / offline introduction to the topic by the panelists

- Guangzhou hydrogen policy expert
  - Introduction of the latest hydrogen policies and plans in Guangzhou for infrastructure developments and FCVCs
- Xiongchuan co. ltd. (FCEV heavy duty vehicles manufacturer)
  - Introduction of Xiongchuan and the policy driven nature of the hydrogen sector in Guangzhou
- TBA
  - Introduction to hydrogen policies and infrastructure plans in the Netherlands

30 minutes of online / offline discussion between the panel and online participants.



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# GREEN HYDROGEN PRODUCTION RESEARCH

30 minutes of online / offline introduction to the topic by the panellists

- Foshan environmental and energy research institute
  - Introduction to hydrogen research and policy in Foshan
- Xianhu Hydrogen lab
  - (Introduction to their solar to hydrogen research)
- SPIC Research Institute of Smart Energy Co., Ltd
  - Introduction to their green hydrogen production R&D from a commercial angle
- Dutch Research Institute - TBA
  - Introduction to Dutch green hydrogen developments

30 minutes of online / offline discussion between the panel and online participants.



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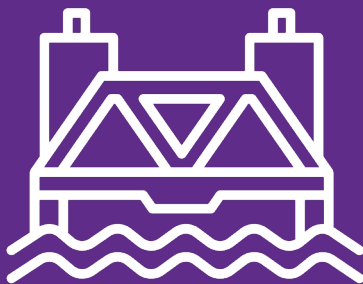
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# HYDROGEN DEVELOPMENTS IN THE PORT REGION

30 minutes of online / offline introduction to the topic by the panellists

- Port of Rotterdam, China Representative
  - Introduction to Port of Rotterdam hydrogen developments
- Shenzhen hydrogen fuel cell association
  - Introduction to hydrogen policy and developments in Shenzhen
- Shenzhen, Yantian Port
  - Introduction to hydrogen development plans in the Shenzhen Yantian port
- Hydrogen company active in the Port of Rotterdam regions - TBA
  - Introduction about opportunities and developments of their project in a hydrogen port hub

30 minutes of online / offline discussion between the panel and online participants.



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