

Leaping into Net Zero Future by Competitive Green Hydrogen

Envision Group aspires to solve the challenges for a sustainable future, and create a world of beautiful energy

Envision Business



Envision Energy

World's champion on wind turbine, energy storage and green hydrogen



Envision Digital

World's largest AIoT operating system EnOS™



Envision AESC

Leading battery supplier with best safety track record



Envision Ventures

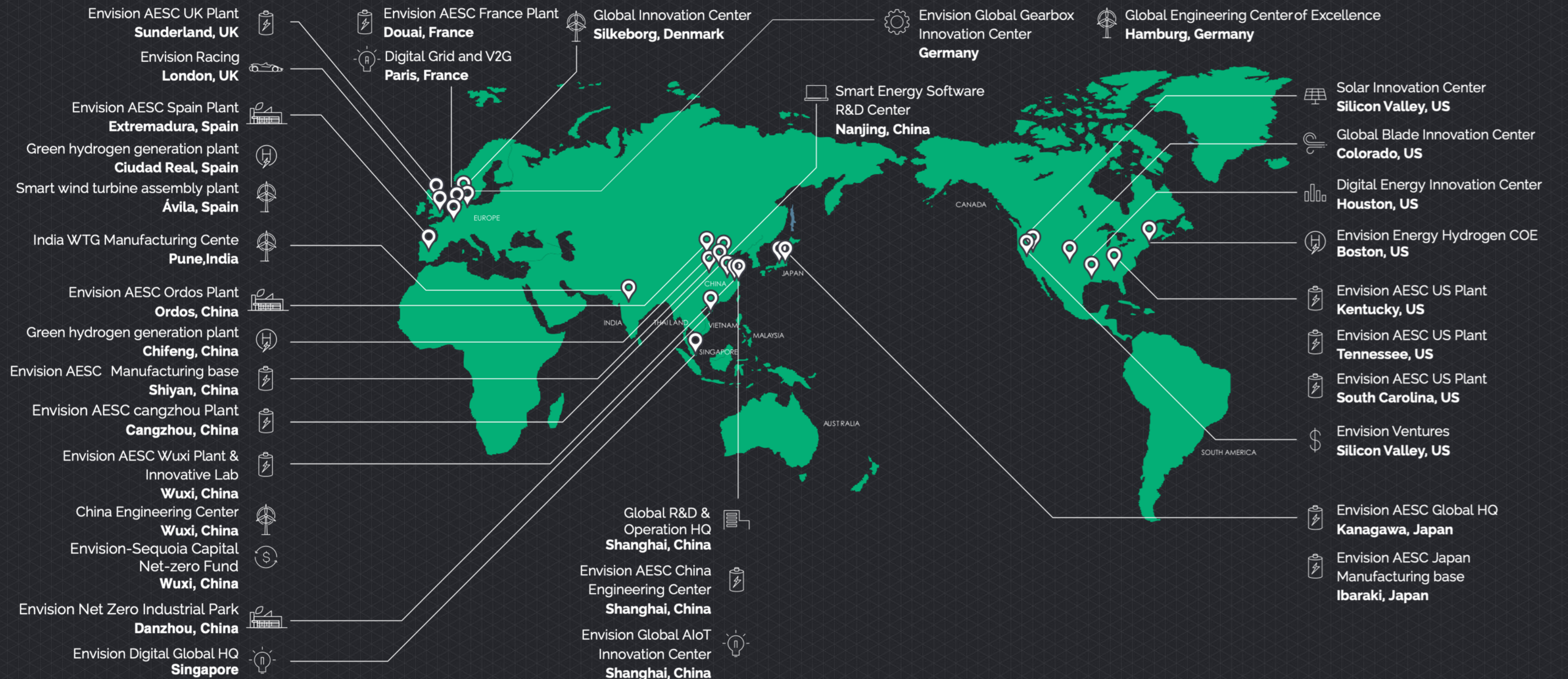
Leading global green tech investor



Envision Racing

Top 5 in 2021 Formula E World Championship

Global Innovation & Production





Biosynthetic Industry



EV Industry

New Industry

Envision-Sequoia Capital
Net Zero Fund



Power Semiconductor
Device Industry



DRI direct reduced iron



100 Net Zero Industrial Parks

New Infrastructure



Net Zero Energy System



New Coal

Envision Smart Wind Turbine
Envision Energy Storage



New Oil

Envision AIoT Battery
Envision Hydrogen

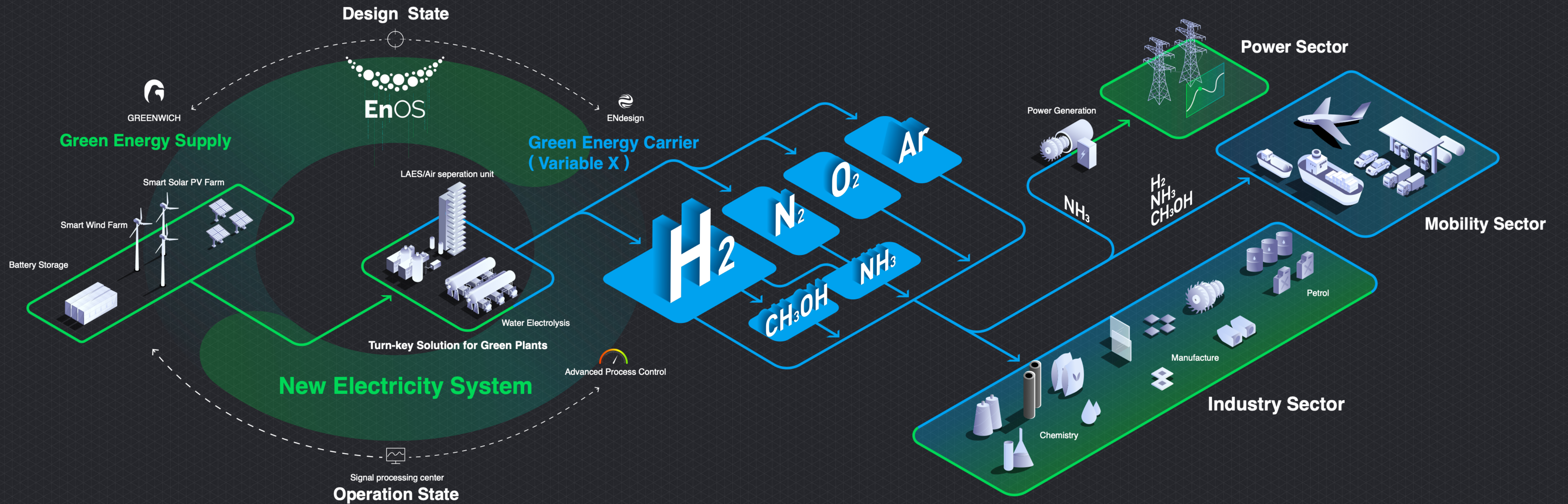


New Grid

EnOS

Envision Hydrogen

- Provide the integrated value chain solution



Targeting for Decarbonization at Scale by Green Hydrogen Solution



Advanced equipment & system

- Water electrolyzer (AEL, PEM, AEM*)
- Electrolyzer system (including gas management, cooling system, electrical components, advanced control system etc.)
- Liquid air energy storage system

Note : * not ready for market



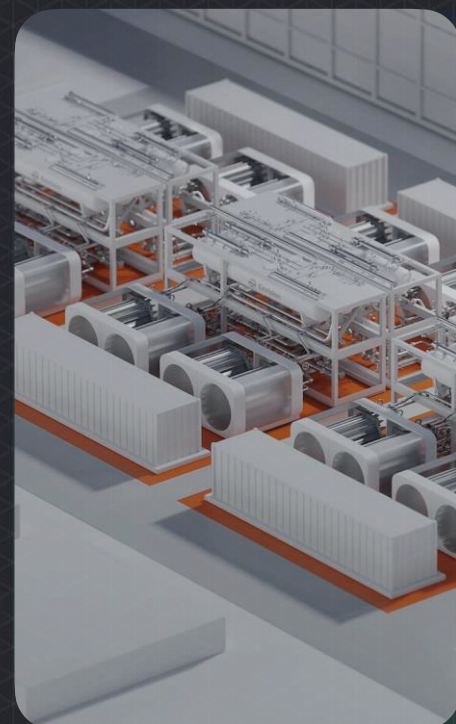
Turn-key Solution for Green Hydrogen Project

- Large scale commercialized green hydrogen plant.
- Long duration energy storage system by using liquid air, hydrogen, ammonia etc.
- Power to power solution.



Operation & Maintenance

- Strong expertise and experience of operation and maintenance of green hydrogen plant.
- Advanced Control Program for Dancing with Wind Solution.



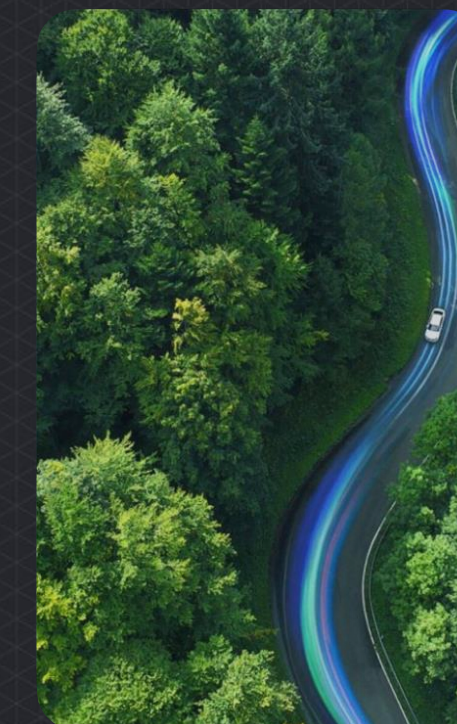
Chemical Process Design Solution

- Process Design Package for Green Hydrogen, Ammonia, Methanol, Methane, Liquid Air Energy System
- Especially for plant requires dynamic behavior to be coupled with renewable energy



Sales & Trading

- Sales and trading of green hydrogen and green ammonia
- Diversified collaboration models



Investment

- Selective approach on geography and stability of financial return
- Form the ECO system with Net-zero tech partner concept

Envision Hydrogen 3C- Competence, Capacity and Customers

Center of Competences

- Global talents for green hydrogen
- Technical knowhow covers from key materials, product design and optimization, key components to project engineering capabilities

Manufacturing capacity

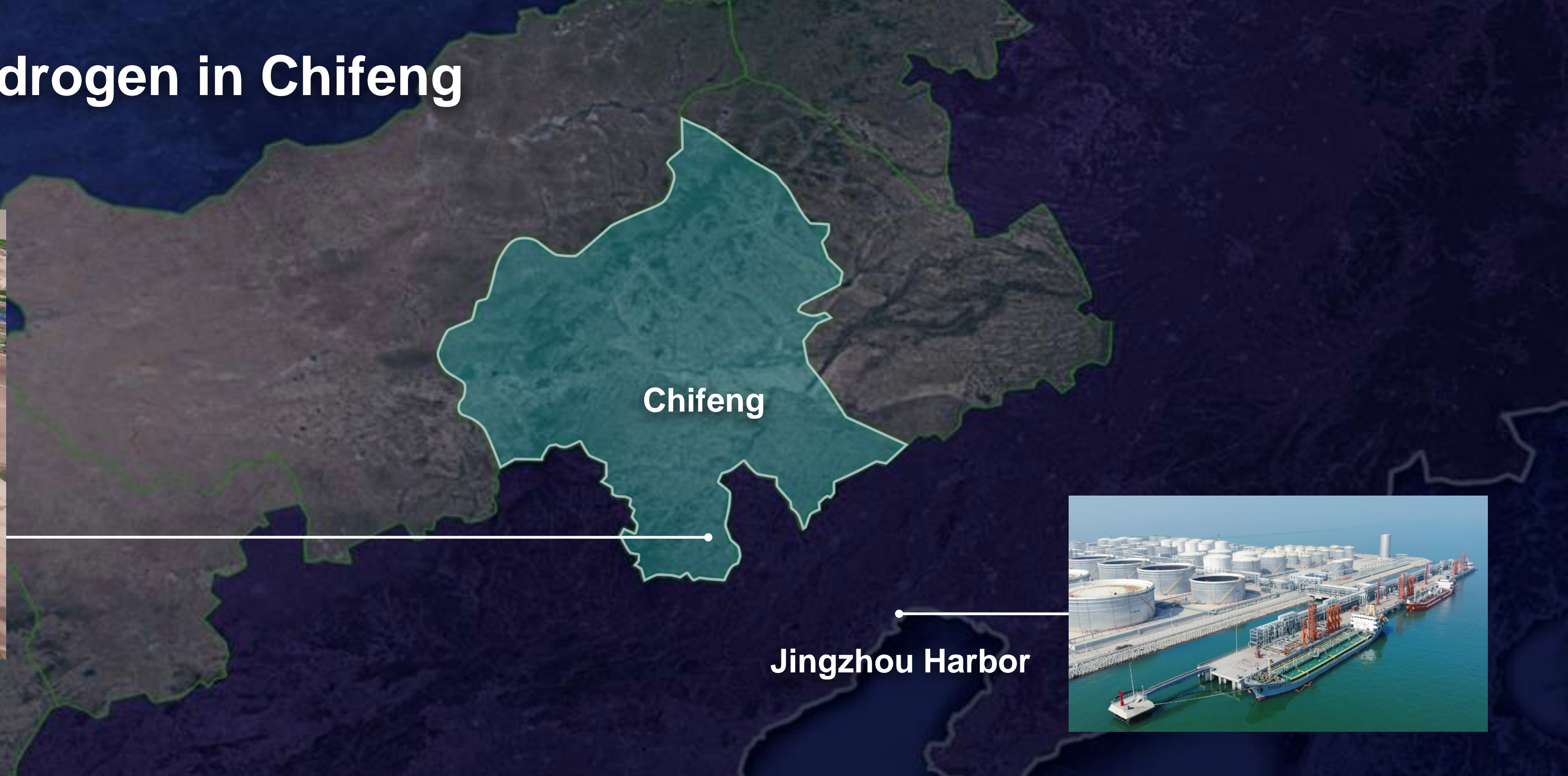
- In operation: **3.5** GW/yr
- In plan: **> 40** GW/yr by 2030

Target market & customer

- Strategic customers targeting in focus areas
- Diversified business models fit for purpose
- Enabling the business success together with partners/customers



Net Zero Industrial Park for Green Hydrogen in Chifeng



Chifeng

Jingzhou Harbor



- Mass production green hydrogen and ammonia
- Commercial operations by Q3 2023
- Proprietary technology, 100% powered by renewables

20kTon
Liquid green hydrogen per year

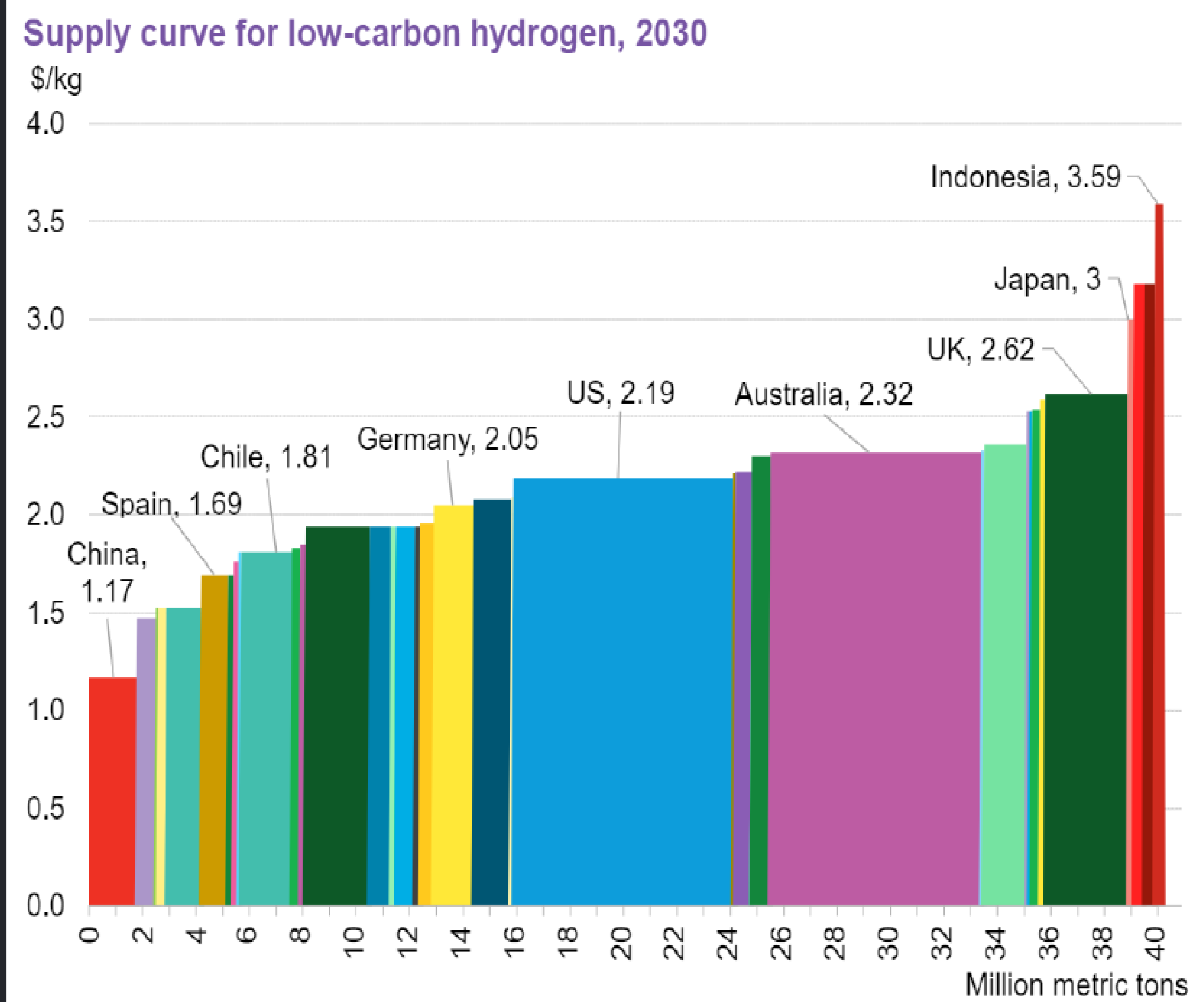
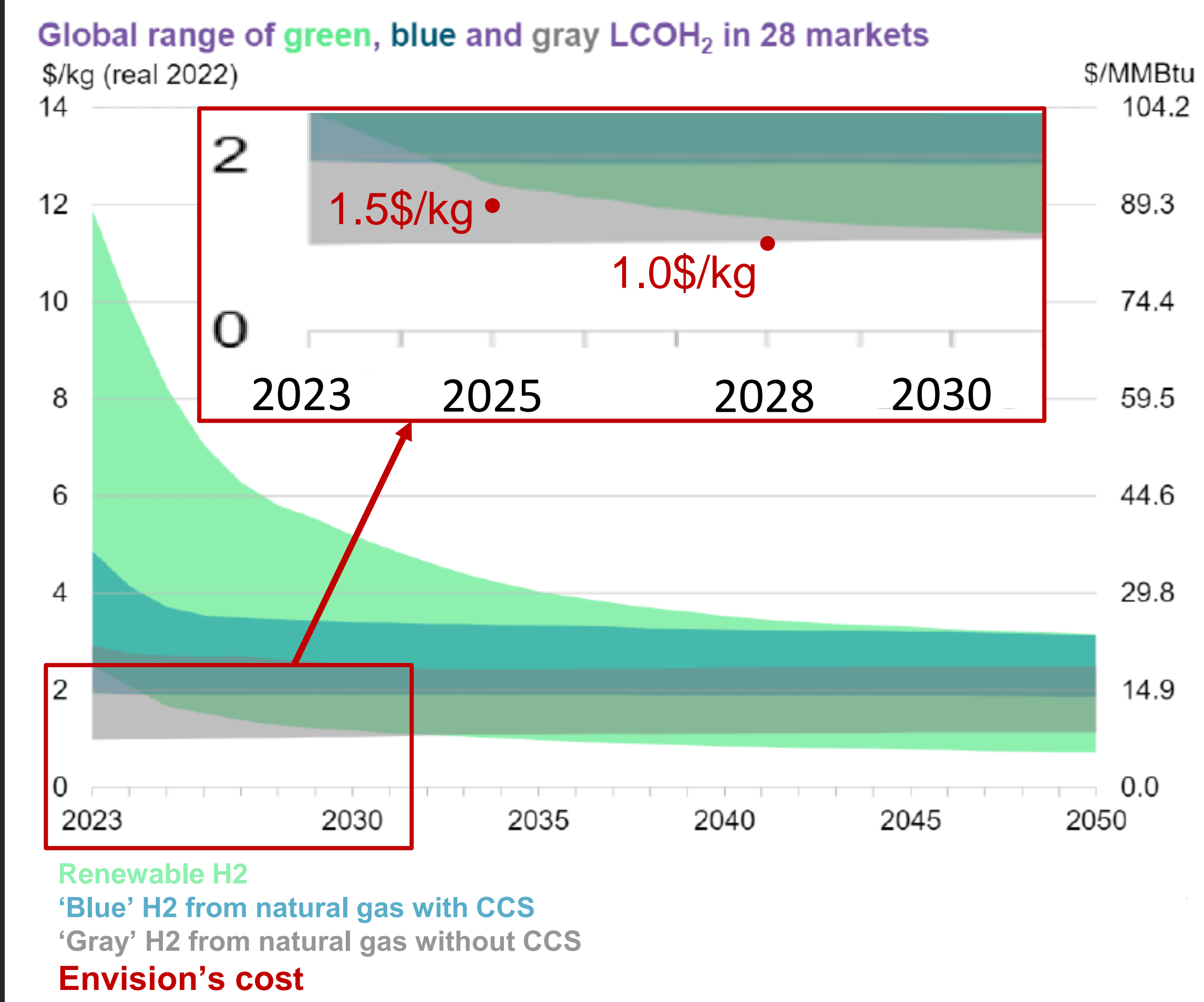
200kTon
Methanol per year

1520kTon
Green ammonia per year

The Latest Progress of Chifeng P0

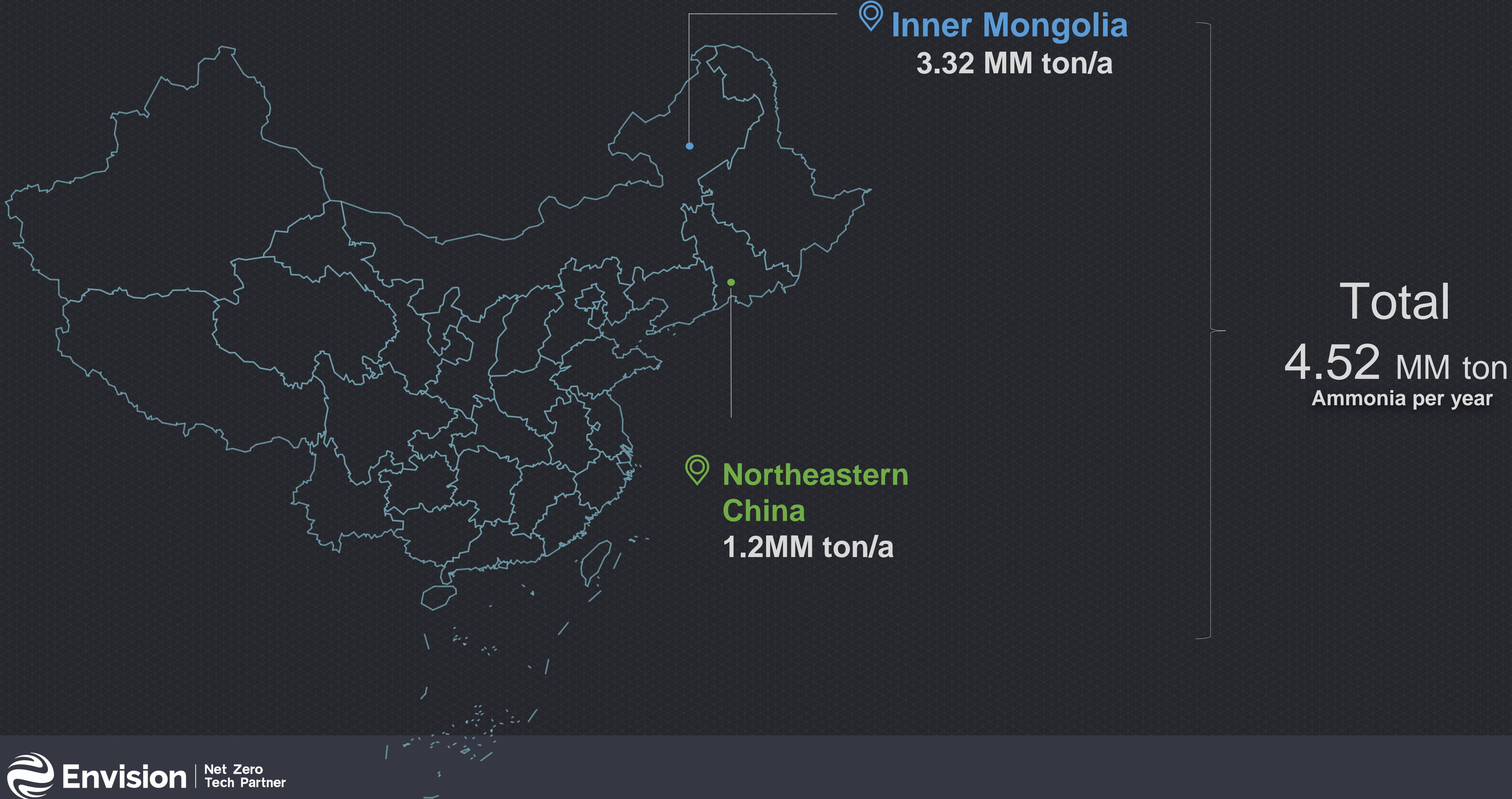


Cost of Green Hydrogen

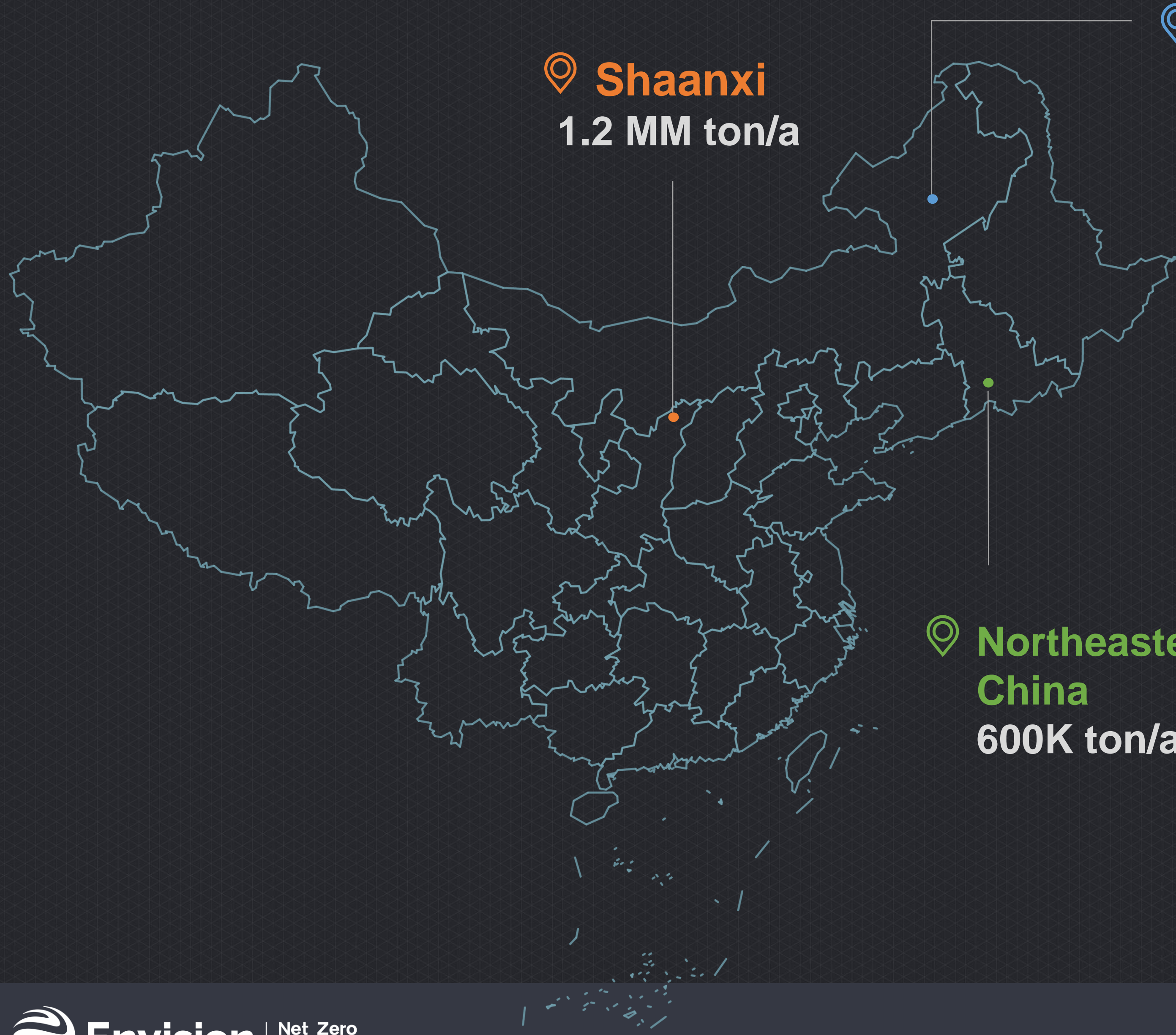


Source: BloombergNEF

Business Plan for Ammonia



Business Plan for Bio-methanol or E-methanol



Shaanxi
1.2 MM ton/a

Inner Mongolia
1.1 MM ton/a

Northeastern China
600K ton/a

CO ₂ Resource
Coal Gasification
Fermentation
Biomass Gasification
DAC

2.9MM ton
Methanol per year

Chifeng
Onstream at the end of 2026

Thank You