

# From Vision to Reality: Envision's Best Practices in Global Net Zero Industrial Parks Development



# Net Zero transition is world's biggest trend in the next 30 years



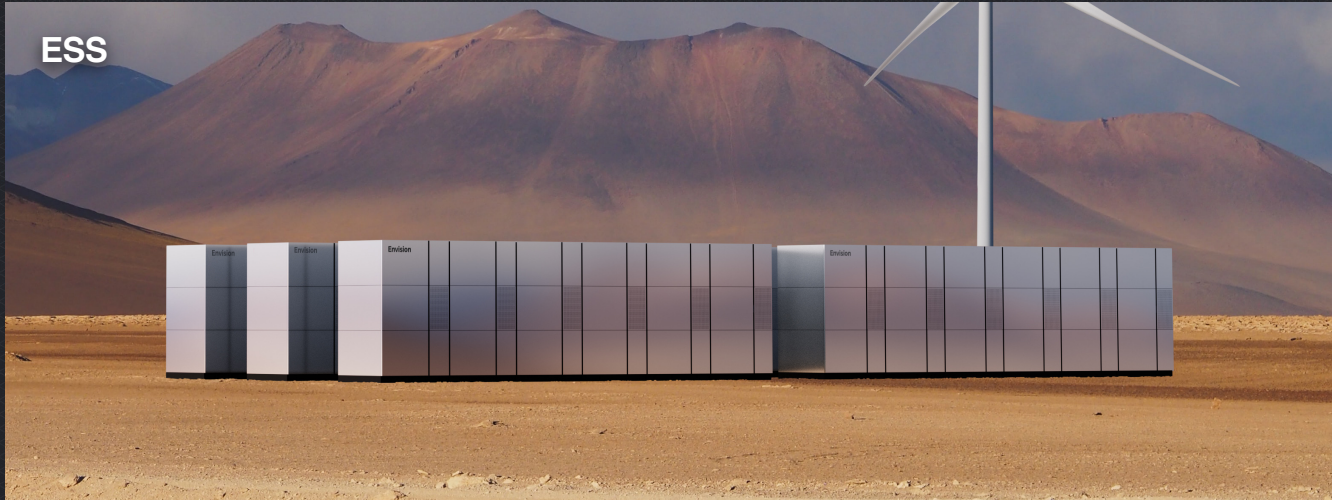
At COP26, hundreds of countries came forward with ambitious 2030 emissions reductions targets that align with reaching net zero by the middle of the century

- EU: committed to reaching climate neutrality by 2050 with the Green Deal
- China: carbon dioxide emissions would peak before 2030 and would reach carbon neutrality by 2060



# The transition needs a new energy infrastructure

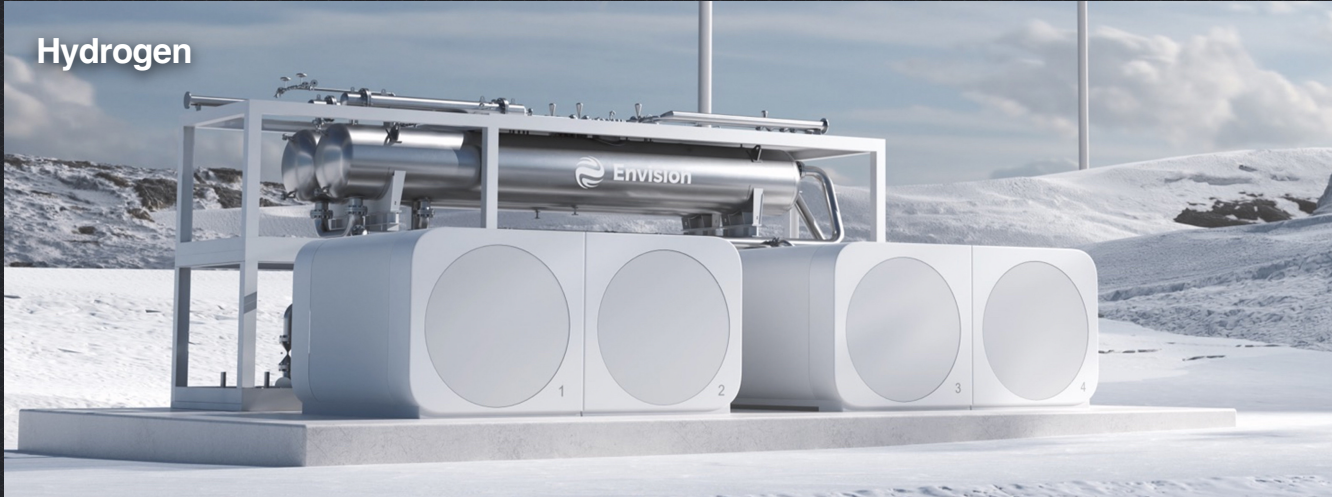
ESS



Wind Turbines



Hydrogen





# Envision is the only company in the world that integrates the net zero system



Synthetic Biology



EV

## New Industry

Envision-Sequoia Capital  
Net Zero Fund



Power Semiconductor



Direct Reduced Steel

## New Infrastructure

Envision Net Zero Industrial Parks



New Energy System



Net Zero Digital Operating System



Green Industrial Clusters

## New Coal



Wind Tubines ESS

## New Oil



Battery Hydrogen

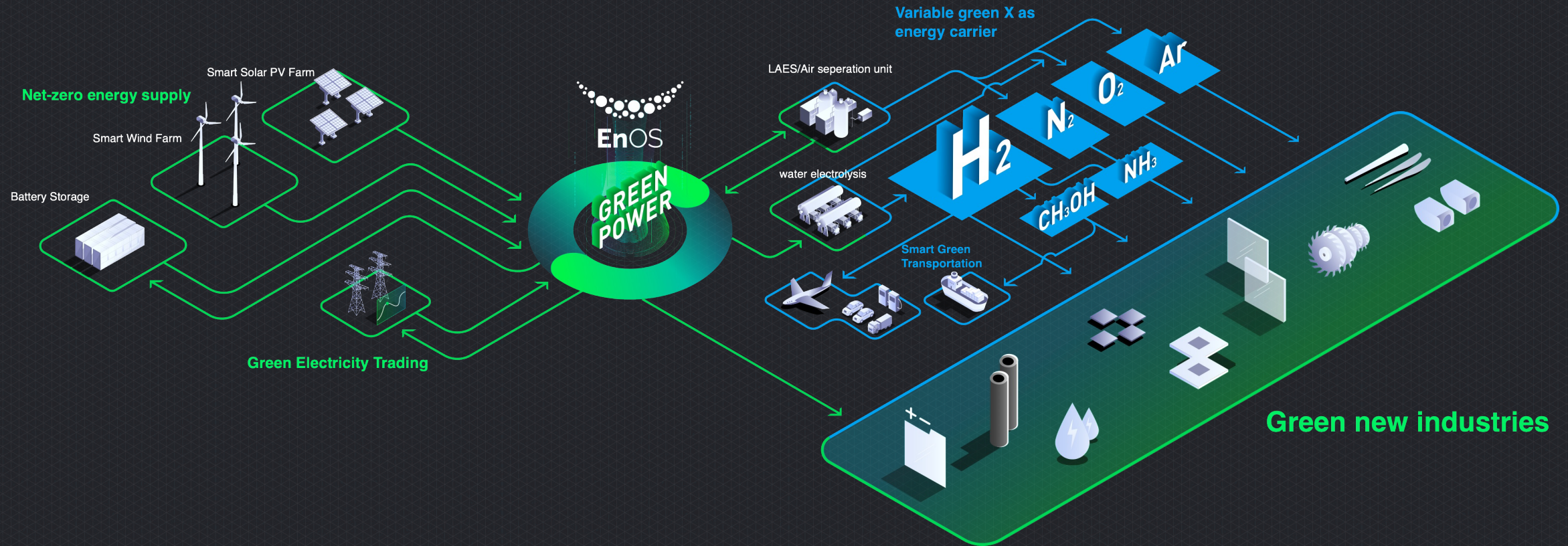
## New Grid



EnOS



# Net Zero Industrial Park uses new energy infrastructure to develop green new industries



- New energy equipment
- Green hydrogen and ammonia
- Electric vehicles and batteries
- Synthetic biology



# World's first Net Zero industrial park in Ordos, Inner Mongolia

Initiated: Dec, 2020  
Pilot built: April, 2022  
Investment attracted:

**16 billion USD**

Green grid built:

**500MW**

**Wind + Solar + ESS**

Ordos



**New Energy Battery**



**New Energy Vehicle**



**New Energy Equipment**

## The Green Industrial Clusters

Envision

**100GWh**

Li-ion battery  
gigafactory

Huayou

**400,000Tons**

Cathode material

SAIC

**30,000**

E-trucks

Longi

**10GW**

Solar panel

## By 2025

Green  
electricity:

**10 billion kWh per year,  
100% from renewables**

Green  
jobs:

**100,000  
clean tech  
jobs**

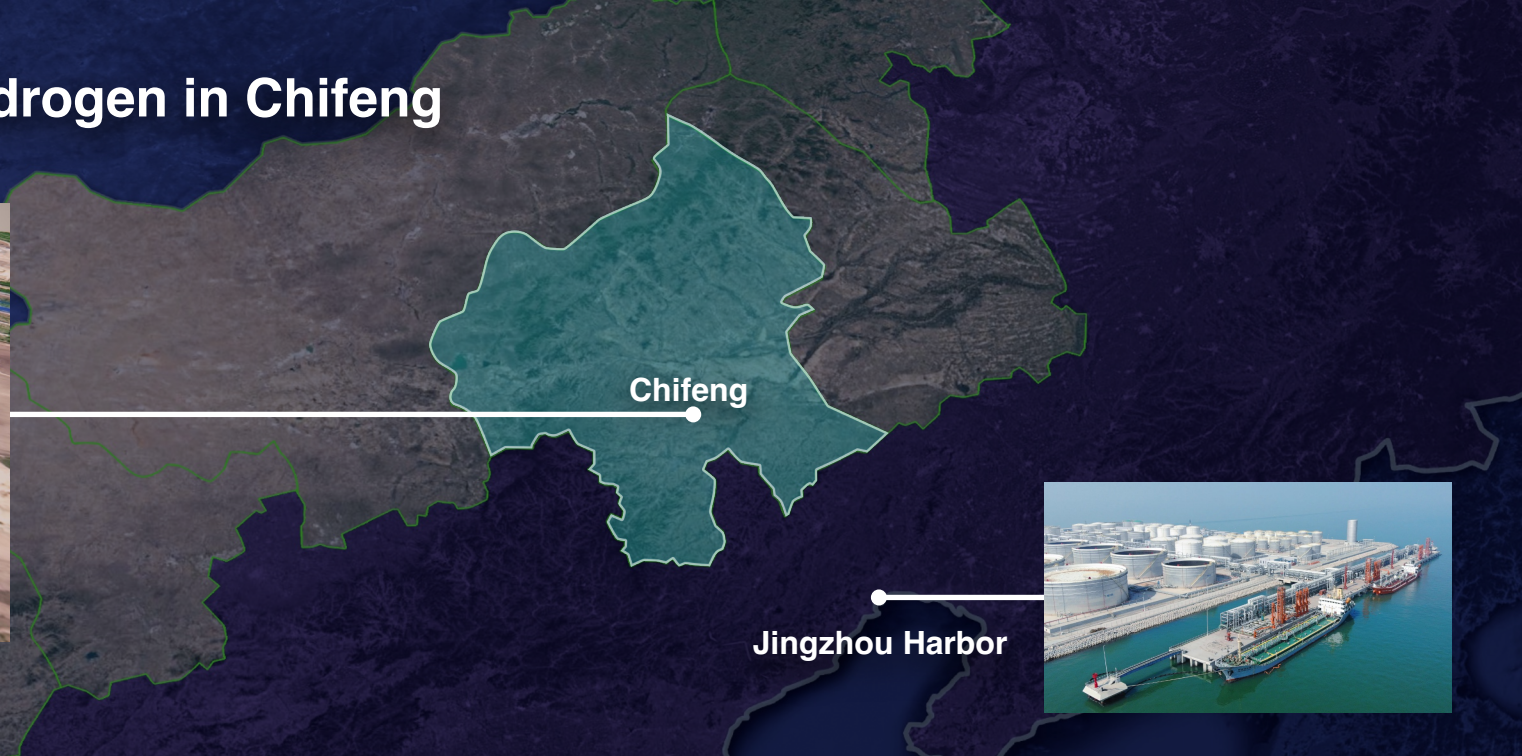
Greenhouse gas  
reduction:

**100 million tons,  
including Scope 3**

Based on the world's first  
International Net zero  
Industrial Park Standard  
crafted by Envision and  
Bureau Veritas (BV)



# Net Zero Industrial Park for Green Hydrogen in Chifeng



- Mass production green hydrogen and ammonia
- Proprietary technology, 100% powered by renewables



# Net Zero Industrial Park for Green Alloy in Baotou

Baotou



By 2028

Green electricity:

Green jobs:

Greenhouse gas  
reduction:



# Cangzhou Smart Net Zero Industrial Park: China's Solution for Global Net Zero Industrial Development

Covering 103 acres, the Cangzhou Smart Net Zero Industrial Park leverages Envision's strengths in renewable energy, AIoT, and carbon management, while integrating wind turbines, photovoltaics, energy storage, and other green energy equipment. By driving the clustering of upstream and downstream segments of the industrial chain, we're helping Cangzhou become a global benchmark for the development of the new energy battery industry.





# Spain's Net Zero Industrial Park: A Bridgehead Into Europe

Envision has signed a strategic cooperation agreement with the Spanish government to build the first Net Zero Industrial Park in Europe, featuring a battery gigafactory, an AIoT technology center, a green hydrogen plant, and smart wind power generation. The new facilities will help Spain develop its new industry and digital technology ecosystems while bringing the country closer to its decarbonization goals.





# Together with domestic and overseas partners, Envision has established the "Net-zero Industrial Park" standard, which has been implemented in Inner Mongolia, in line with international scientific carbon targets

Envision jointly released the world's first "Net-zero Industrial Park" standard with domestic and overseas partners



## Envision Group

A world-leading clean technology company that provides technical support and resources for the standard



中国标准化研究院  
CHINA NATIONAL INSTITUTE OF STANDARDIZATION

## China National Institute of Standardization

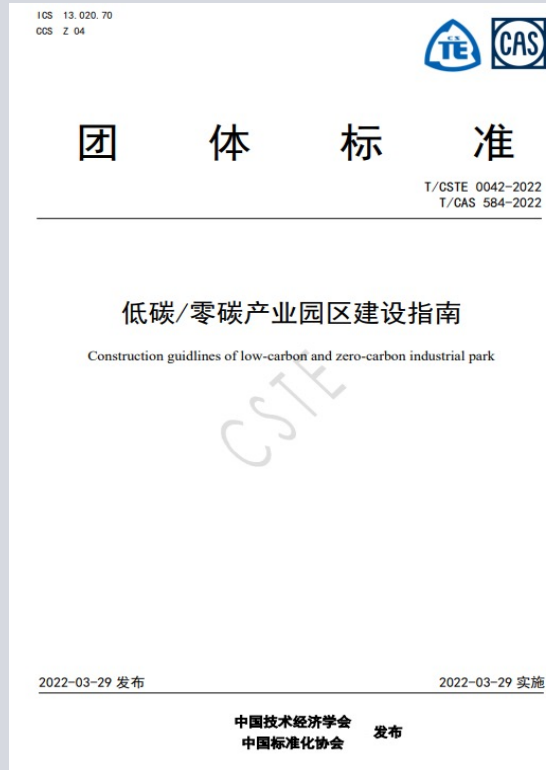
Subordinate to the State Administration for Market Regulation; Responsible for writing the standard



BUREAU  
VERITAS

## Bureau Veritas

World-renowned international inspection and certification group that enhances the international influence of the standard and certifies subsequent standards



## Why the standard is important and advanced

- The world's first standard on the construction of net-zero industrial parks, guiding industrial parks to optimize and upgrade existing energy systems. It promotes the development of new technologies, models and forms of business, to realize the goal of zero-carbon transformation of parks.
- The standard is in line with international standards (refer to ISO14064, ISO14067) and Scientific Carbon Target System (SBTi), and actively promotes international recognition in cooperation with the world's leading certification bodies.
- The standard puts forward requirements for industrial parks covering net-zero energy supply, digital system construction, industrial cycle agglomeration and social comprehensive carbon reduction, helping participating firms achieve voluntary emission reduction targets and creating low-carbon transformation momentum for the region.





# Net Zero Industrial Park enables global carbon - free trade


## Product Net Zero Code

- IoT based data collection and calculation
- Compatible with international standards for verification
- Science-based decarbonization targets and tracking





ARK ID:  
YYDS5816423



Producer name :	Envision AESC	Battery cell type:	EAHE2201A
Battery cell batch number:	C47RBX1001	Serial number :	2102000001
Geographic location of the battery manufacturing facility :	Ordos-China	Date of manufacture :	20221002
Date of placing on the market :	20221115	Parameters :	78Ah-287Wh

### Carbon Footprint

**0.0329** kg CO<sub>2</sub>-eq/kWh

**58.6** kg CO<sub>2</sub>-eq/kWh

Based on Battery PEF standard, the carbon emission of the product is calculated for "cradle to grave"

The carbon emission of the product is calculated for "cradle to gate"

### Powered by EnOS ARK

The Carbon Footprint was verified by TÜV SÜD according to ISO14040/2006, ISO 14067, PEFCR

### Carbon footprints of major parts of the supply chain



✓ Cathode Material-23.4 kg CO <sub>2</sub> -eq/kwh	✓ Anode Material-8.8 kg CO <sub>2</sub> -eq/kwh
✓ Electrolyte-2.9 kg CO <sub>2</sub> -eq/kwh	✓ Separator Material-2.3 kg CO <sub>2</sub> -eq/kwh

### Carbon Neutral

The product is achieve carbon neutrality by purchasing and retiring VCS credits from afforestation project  
Source of VCU: Qianbei Forestry carbon sink project (I/O 2082)

Carbon Footprint Verification Statement

Certified by TÜV SÜD





video