







There are more than 77,000 industrial parks in the country, of which industrial parks account for nearly 30%.

Industrial parks contribute more than 50% of the country's industrial output value and about 31% of carbon emissions.

# Zero-Carbon Parks must ultimately aim for carbon neutrality within their boundaries

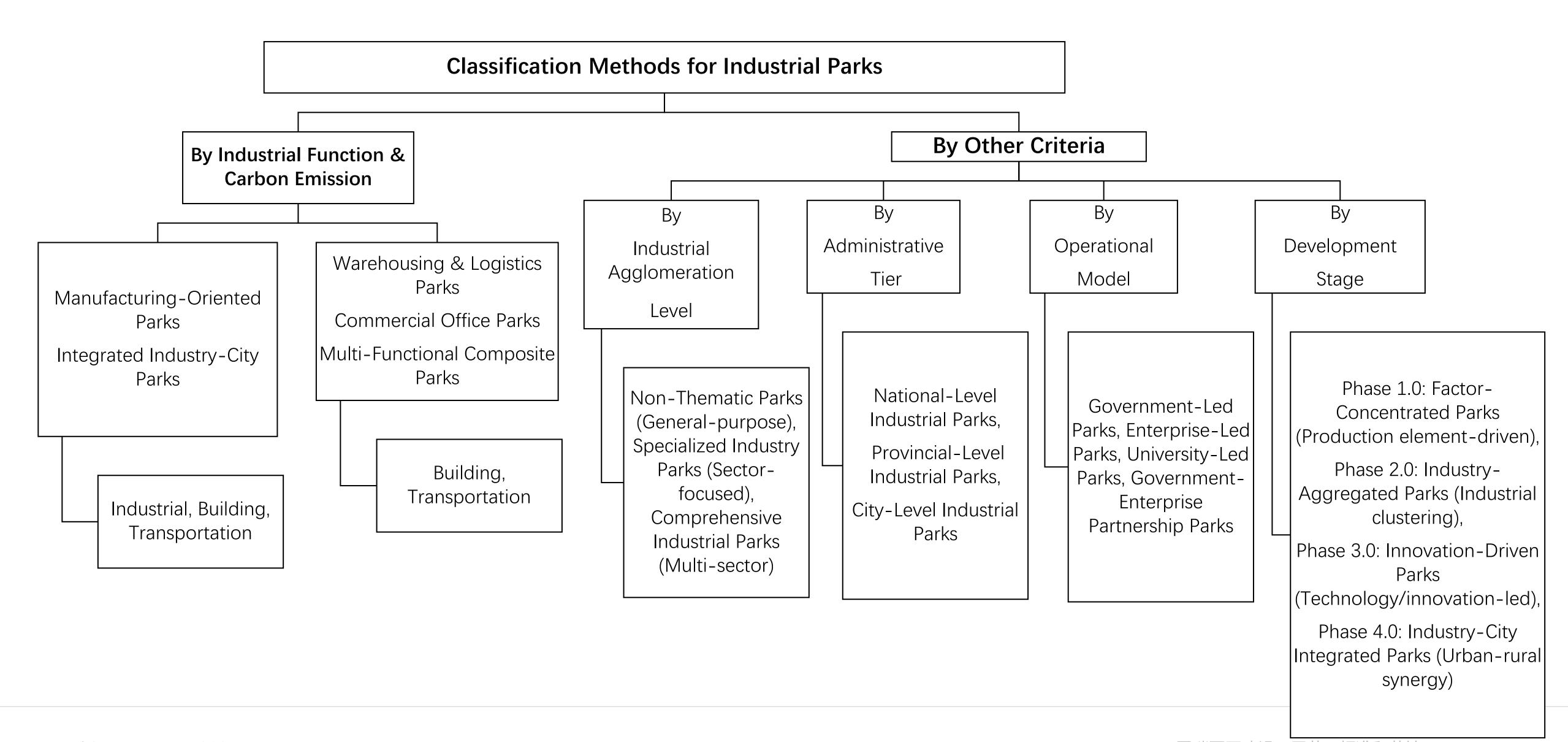




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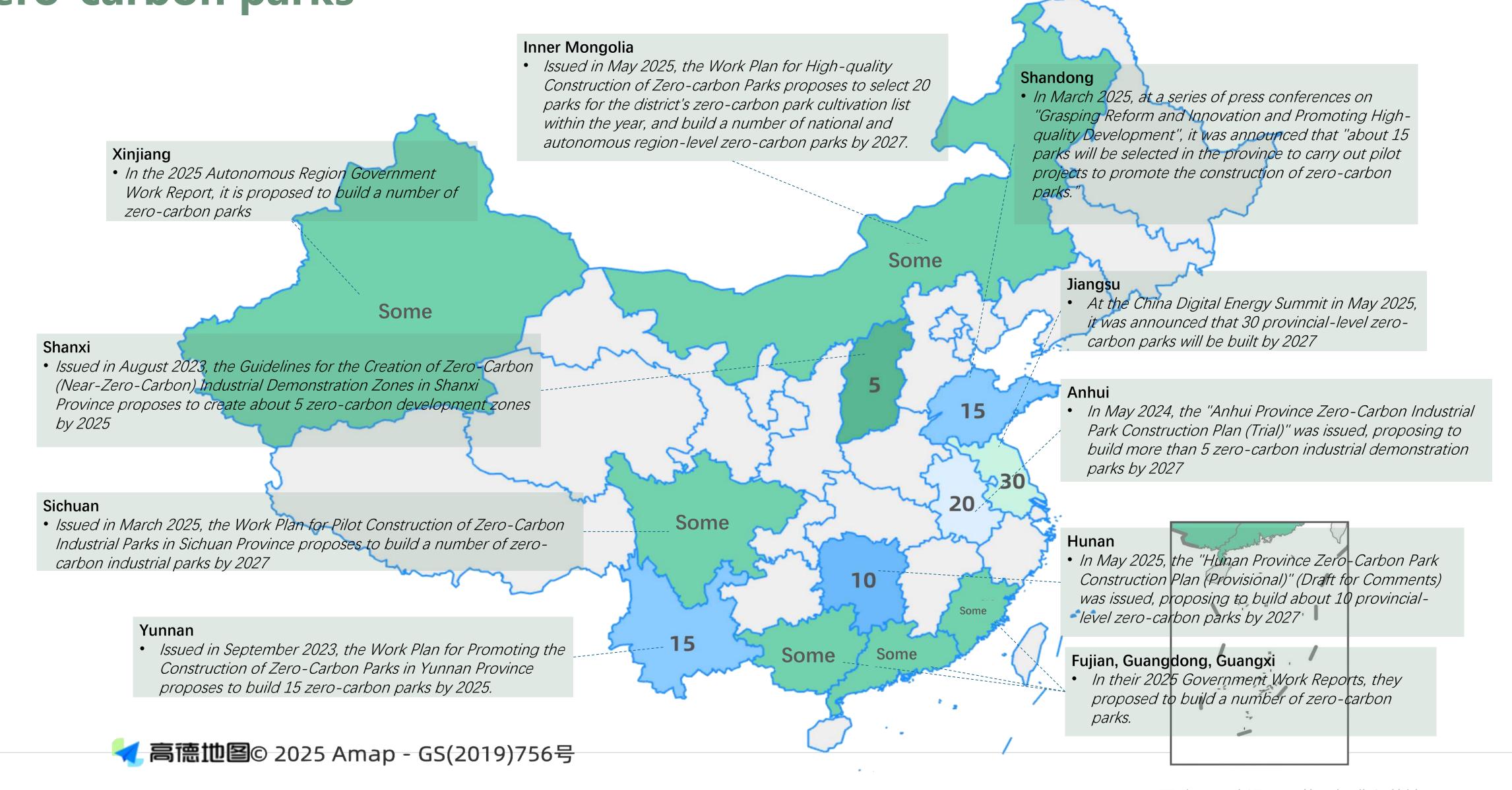
# Different parks, different paths





Provinces put forward medium- and long-term goals for zero-carbon parks





# Construction plans and evaluation standards for zero-carbon parks



#### Illustration:

- -Group standard
  -Local standards or local
  policies
- Technical Guidelines for the Design and Evaluation of Smart Zero-Carbon Industrial Parks (T/CSPSTC51-2020)

- Technical Specifications For The Creation And Evaluation Of Zero-Carbon
- Technical Specifications For The Creation And Evaluation Of Zero-Carbon Parks

Logistics Parks (T/SEESA014-

(T/SEESA010-2022)

2022)

• Guidelines For The
Construction Of Lowcarbon/Zero-Carbon
Industrial Parks
(T/CSTE 0042-2022——
2022/T/CAS 584-2022)

- Guidelines for the Evaluation of Zero Carbon Maturity Levels in Industrial Parks (T/BAEE 014-2023)
- Evaluation Standards for Zero-Carbon Parks (T/AIAC 002-2023)
- General Principles for the Evaluation of Zero-Carbon Parks (T/CIECCPA 031-2023)
- Zero-carbon Industrial Park Implementation
  Path Planning And Evaluation (T/SEESA 018-2023)
- Technical Specifications For The Construction And Evaluation Of Zero-carbon Parks (T/ACA 1-2023)
- Evaluation Standards For Smart Zero-carbon Parks (T/CSUS 66-2023)
- Specifications For The Construction Of Zerocarbon Industrial Parks (DB15/T 2948-2023)
- Xiong'an New Area Zero-Carbon Park Evaluation Standards Part I: Public Building Parks (DB1331/T 069-2023)
- Guidelines For The Application For The Creation Of Zero-carbon (Near-zero Carbon) Industrial Demonstration Zones In Shanxi Province (Shanxi Development and Reform Commission Document No. 265 [2023])
- Work Plan for Promoting the Construction of Zero-Carbon Parks in Yunnan Province (Yunnan Development and Reform Commission Document No. 960 [2023])

- Evaluation Specification for Low Carbon and Near Zero Carbon Parks (T/SJNX 001-2024)
- Evaluation Standard for Smart Zero Carbon Parks (T/CSUS 66-2023)
- Specification for Establishment and Evaluation of Zero Carbon (Near Zero Carbon) Industrial Parks (T/SXSES 04-2024)
- Specification for Establishment and Evaluation of Zero Carbon Smart Parks (TCIECCPA 031-2024)
- Technical Specification for Construction and Evaluation of Zero Carbon Parks (T/CGDF 00046-2024)
- Guidelines for Evaluation of Zero Carbon Parks (T/CIET 632-2024)
- Technical Code for Zero Carbon Industrial Parks (T/CECS 1600-2024)
- Evaluation Guidelines for Zero Carbon Industrial Parks (T/SDII 007-2024)
- Assessment Specification for Low Carbon Zero Carbon Parks (T/GDLC 019-2024)
- Assessment Guidelines for Low to Zero Carbon Establishment in Industrial Parks (DB35/T 2198-2024)
- Construction Specification for Coastal Near Zero Carbon Industrial Parks (DB3209/T 1275-2024)
- Construction Guidelines for Jiangsu Near Zero Carbon Industrial Parks Provisional (Jiangsu Development and Reform Commission Document No. 366 [2024])
- Implementation Plan for Anhui Zero Carbon Industrial Parks Trial (Anhui Development and Reform Commission Document No. 254 [2024])

- Technical Specifications For The Evaluation Of Zero-carbon Industrial Parks (T/GZC 2—2025)
- Technical Specifications for the Construction and Evaluation of Zero-Carbon Parks (T/CECA-G 0344-2025)
- Work Plan for Pilot Construction of Zero Carbon Industrial Parks in Sichuan (Sichuan Department of Economy and Information Technology Document No 31 [2025])
- Implementation Plan for Zero Carbon Parks in Hunan Provisional (Draft for Comments)

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2020 2023 2024 2025

## Zero-carbon parks require integrated multidimensional coordination





#### **Energy**

Energy use structure: renewable energy utilization rate, total coal consumption, and direct green power supply

Green energy applications: PV-Storage-Charging/PV-Storage-DC flexible systems deployment, "source-grid-load-storage" integration, and power demand response capabilities



### Building

Green buildings: the proportion of green buildings, the proportion of floor area occupied by near-zero energy/zero energy buildings/the proportion of total construction area, etc. Energy-saving renovation: energy-saving renovation of existing buildings, etc. Renewable energy utilization: the proportion of photovoltaic coverage of building roof area, etc.



#### **Transportation**

Transportation: the proportion of energy-saving and new energy vehicles in operation, the proportion of new energy transportation and logistics transportation vehicles, etc. Infrastructure: the proportion of charging pile facilities, the coverage of new energy transportation infrastructure, the proportion of green lighting in public facilities or roads, etc.



### Industry and production

Industrial structure: per capita industrial added value, the proportion of strategic emerging industries and high-tech enterprises, and the proportion of green industry added value to the industrial added value of the park

Industrial energy efficiency: energy consumption of general-purpose terminal energy equipment, carbon dioxide emission intensity reduction rate of industrial added value, comprehensive energy consumption per unit of industrial added value, etc.

Green manufacturing: the proportion of green factories, the proportion of zero-carbon factories, green products, green supply chain enterprises, etc.

Technological innovation: enterprise zero-carbon process upgrading, green and low-carbon technology research and experimental development investment intensity, etc.



#### Resource

Solid waste: comprehensive utilization rate of industrial solid waste, classification and collection rate of domestic waste, etc.

Water: industrial water reuse rate, reclaimed water reuse rate, etc.

Waste heat, waste pressure, waste cooling, waste pressure utilization rate, waste energy recycling rate, etc.



### **Ecological environment**

Ecology: green space coverage Environment: centralized sewage treatment facilities, solid waste disposal facilities, and rainwater collection facilities



## Carbon offset, carbon capture

Carbon capture: carbon capture, utilization, and storage projects, etc.
Carbon offset: carbon offset ratio, carbon credit procurement, proportion of self-developed carbon emission reduction, etc.



### **Operations management**

Management: the establishment of energy and carbon emission monitoring and management platforms, the establishment of intelligent management platforms, etc. Statistical accounting: greenhouse gas emission management system, carbon emission statistical accounting and assessment system, the proportion of enterprise greenhouse gas inventory, and the proportion of enterprises carrying out carbon footprint accounting and certification.

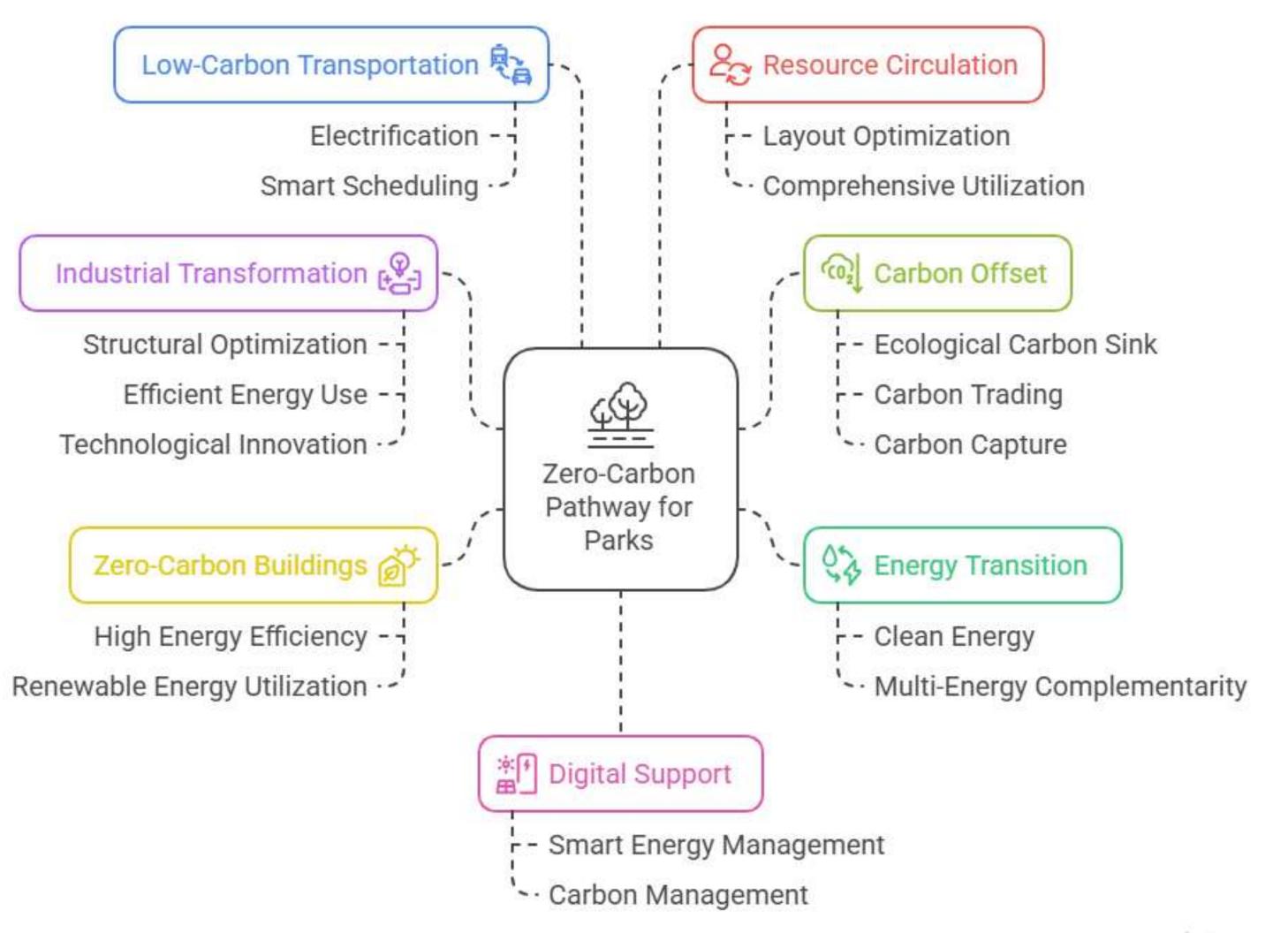
Information disclosure: environmental information disclosure of enterprises above designated size, etc.

Incentive mechanism: special policies/funds for zero-carbon development, carbon inclusive incentive mechanism, etc.

#### Zero-Carbon Pathway for Parks



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Made with 🐎 Napkin



## **Local Practices of Zero-Carbon Parks**



Green Power
Direct
Connection

Dafeng Port Zero-Carbon Park, Sheyang Port Zero-Carbon Industrial Park, and Binhai Port Zero-Carbon Industrial Park



100% Green Power

Ordos Zero-Carbon Industrial Park, Nike China Logistics Center, Hongyan Campus, Zhejiang Future R&D Park



Building Energy Efficiency

Yantai Huangbohai New Area Zero-Carbon Smart Industrial Park, Prologis Taopu Smart Cold Chain Industrial Park



Transportation Electrification

Xiamen Xiangyu Comprehensive Bonded Zone

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# Challenge & Advice

#### Standardized Accounting

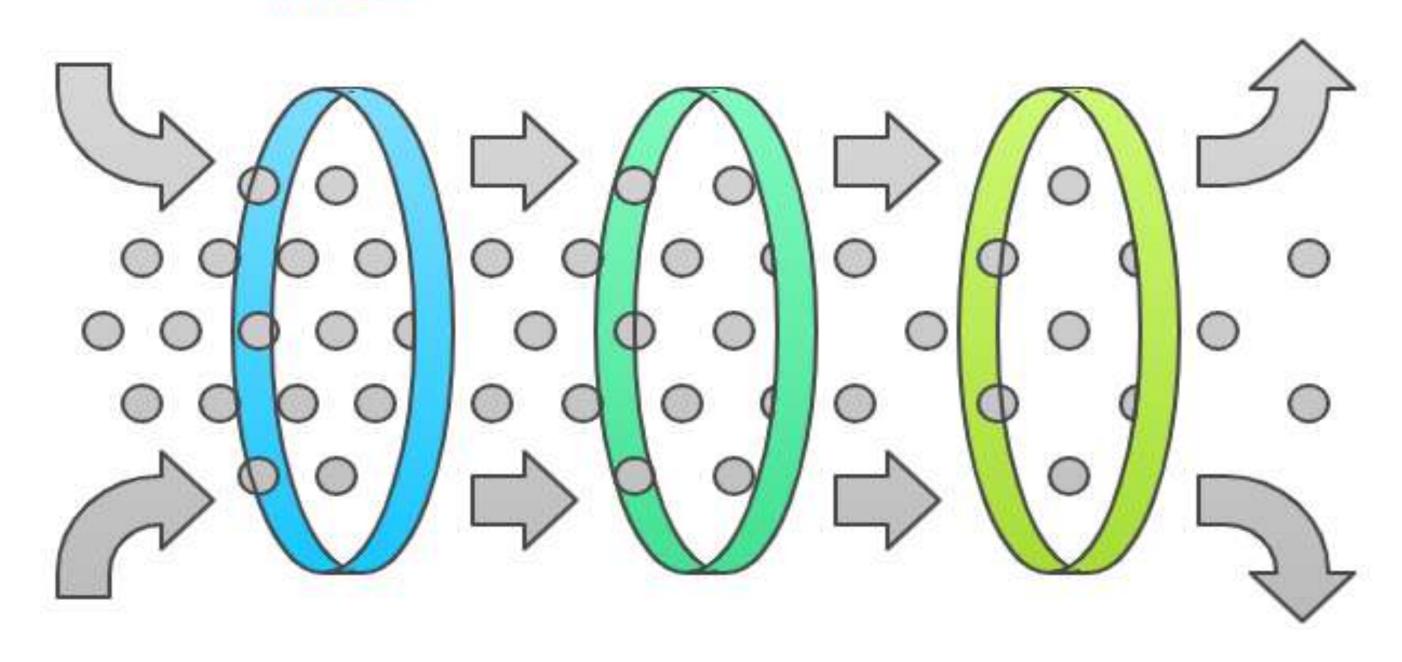
Establish unified greenhouse gas (GHG) accounting standards

#### **Unified Definition**

Develop clear definitions for zerocarbon parks

#### Technological Advancements

Promote progress in advanced technologies like renewable energy and energy storage



# Thank you!

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