

Digitalization & Integrated Energy Services to Break Through the Bottlenecks In the Implementation of Zero-carbon Parks

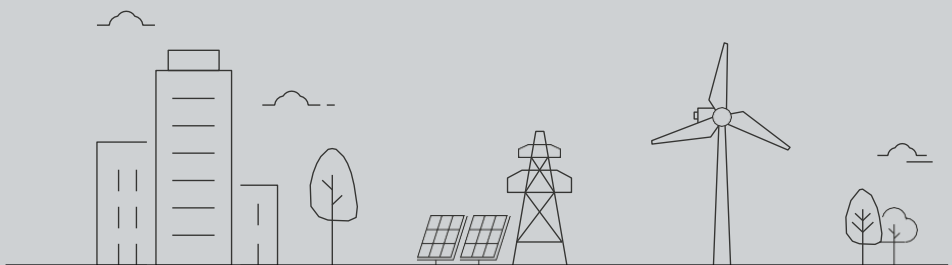
Tianrun New Energy

16th June 2026

CONTENTS

- 01 Company Profile**
- 02 Policy, Opportunities and Challenges
- 03 Solution
- 04 Case

Goldwind Core Business



Global Business Scope



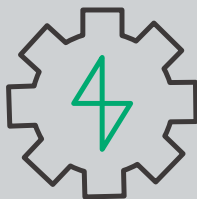
Energy Equipment

Onshore Wind Turbines

Offshore Wind Turbines

Energy Storage

Hybrid Towers



Energy Development

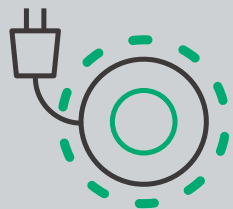
Resource Development



Energy Service

New Energy Service

Net-Zero Carbon Service



Energy Utilization

Green Chemical Industry

Environmental Protection

Support Business

Finance & Investment

Digitalization

Engineering Design

Education

With a strong capacity for independent research and development, we have devised and implemented a multi-pronged globalization strategy to enhance our competitiveness and, in turn, help customers tap into the potential of sustainable energy.

2 IPOs
Listed in Shenzhen and Hong Kong

10,000+ employees
Over 3,000 R&D Personnel

2025



证书编号: CGC-GHGNC-R-10032025-01

碳中和证书
Certification of Carbon Neutrality

企业名称: 金风科技股份有限公司
Enterprise: Goldwind Science & Technology Co., Ltd.

企业地址: 新疆乌鲁木齐经济技术开发区上海路 107 号
Address: No. 107 Shanghai Road, Economic & Technological Development Zone, Urumqi

报告周期: 2025 年 1 月 1 日 – 2025 年 12 月 31 日
Reporting period: 01/01/2025 – 31/12/2025

核算标准: ISO 14064-1:2018 Greenhouse gases — Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals
Quantification Standard:

兹证明, 上述公司依据联合国政府间气候变化专门委员会(IPCC)原则, 通过使用绿色电力、碳抵消实现了碳中和。
This is to certify that the company above has achieved carbon neutrality through consumption of renewable electricity, and carbon emission offsets in accordance with the principles of the United Nations Intergovernmental Panel on Climate Change (IPCC)

发证机构: 北京鉴衡认证中心有限公司
Issuing Institution: China General Certification Center
发证日期: 2024 年 10 月 10 日
Date: 10/10/2024

2024



证书编号: CGC-GHGNC-R-17032025-01

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Certification of Carbon Neutrality

企业名称: 金风科技股份有限公司
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发证机构: 北京鉴衡认证中心有限公司
Issuing Institution: China General Certification Center
发证日期: 2024 年 3 月 17 日
Date: 17/03/2024

Europe



碳中和证书
Certification of Carbon Neutrality

证书编号: CGC-CC&SS-CN20240011
Certificate No.:

公司名称: 北京金风科创风电设备有限公司
Company Name: Beijing Goldwind Science & Creation Windpower Equipment Co., Ltd.

注册地址: 中国北京市北京经济技术开发区康定街 19 号
Registered Address: No. 19 Kang Ding Street, Economic & Technological Development Zone, Beijing

时间周期: 2023 年 1 月 1 日 – 2023 年 12 月 31 日
Applied Period: 01/01/2023 – 31/12/2023

温室气体核算标准: ISO 14064-1:2018 Greenhouse gases — Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals
Applied standards:

边界: 全球运营范围内的温室气体排放量
Boundary: GHG emissions from global operations

温室气体类别: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
GHG Included:

兹证明, 上述公司依据联合国政府间气候变化专门委员会(IPCC)原则, 通过节能减排、使用绿色电力、碳抵消实现了碳中和。
This is to certify that the company above has achieved carbon neutrality through improvement of energy efficiency, consumption of renewable electricity, and carbon emission offsets in accordance with the principles of the United Nations Intergovernmental Panel on Climate Change (IPCC).

签发: 北京鉴衡认证中心有限公司
Signature: China General Certification Center
2024 年 04 月 15 日
17/03/2024

2023



碳中和证书
Certification of Carbon Neutrality

证书编号: CGC-CC&SS-CN20230019
Certificate No.:

公司名称: 金风科技北京智慧园区
Company Name: Goldwind Beijing Smart Park

注册地址: 北京市北京经济技术开发区博兴一路 8 号
Registered Address: No. 8 Boxing 1st Road, Economic & Technological Development Zone, Beijing

时间周期: 2022 年 1 月 1 日 – 2022 年 12 月 31 日
Applied Period: 01/01/2022 – 31/12/2022

温室气体核算标准: ISO 14064-1:2018 Greenhouse gases — Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals
Applied standards:

边界: 企业运营范围内的温室气体排放量
Boundary: GHG emissions from company operations

温室气体类别: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
GHG Included:

温室气体排放量: 2,060.82 tCO₂e, 其中
GHG Emissions: 范围 1 排放量: 1,995.98 tCO₂e 范围 2 排放量: 64.84 tCO₂e
Scope 1 emissions: Scope 2 emissions:

兹证明, 上述公司依据联合国政府间气候变化专门委员会(IPCC)原则, 通过节能减排、使用绿色电力、碳抵消实现了碳中和。
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签发: 北京鉴衡认证中心有限公司
Signature: China General Certification Center
2023 年 03 月 27 日
17/03/2024

2022



碳中和证书
Carbon Neutrality Certificate

兹此证明, 新疆金风科技股份有限公司亦庄智慧园区就2020年1月1日至2020年12月31日期间所有与温室气体排放相关的生产经营活动所产生的11,937tCO₂e, 通过购买等量吉林前郭王府站风电场49.5兆瓦风电项目所产生的中国核证减排量进行抵消, 实现碳中和。

北京绿色交易所有限公司
2024 年 1 月 28 日

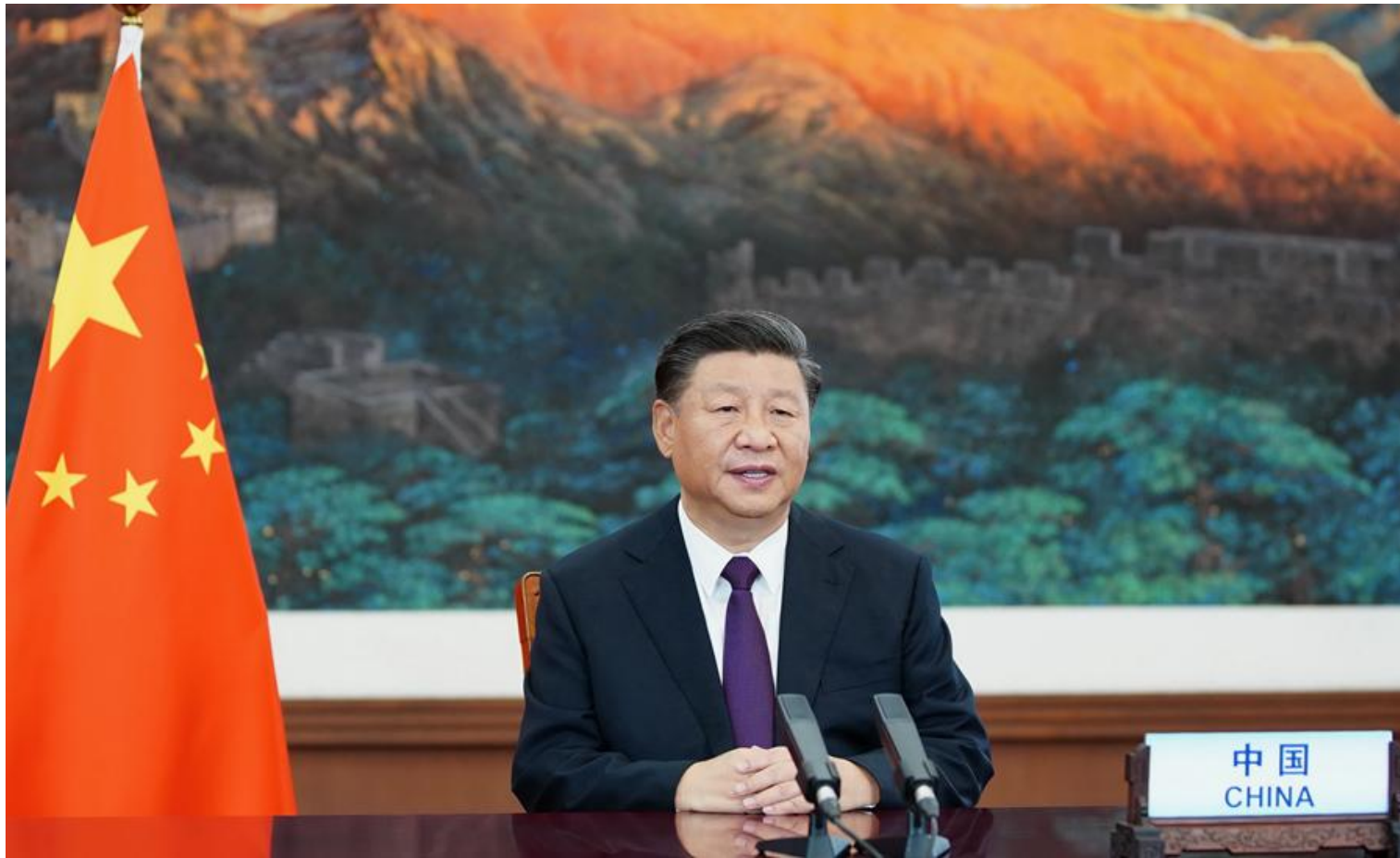
49 Global R&D Centers 1 Global R&D Headquarters 1 Global R&D Center 6 Global R&D Bases

Global Regional Centers				
7	Goldwind North America	Goldwind South America	Goldwind Europe	Goldwind Africa
	Goldwind Australia	Goldwind Asia	Goldwind Central Asia & MENA	

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Policy Context



Europe Policy

- CBAM
- EU Battery Regulation
- Ecodesign for Sustainable Products Regulation (ESPR)

Domestic Policy

Key Milestones

- **2015 Paris Agreement:** $<2^{\circ}\text{C}$, pursue 1.5°C
- **2020 China's Dual Carbon Goals:** CO_2 peak by 2030, neutral by 2060
- **2026 New Mandate:** Dual-carbon performance linked to provincial leadership evaluation – rigid enforcement

Five Binding Indicators (one failure = annual fail)

- Total CO_2 emissions
- Carbon intensity reduction
- Coal consumption
- Oil consumption
- Non-fossil energy ratio

Opportunities & Challenges

Challenges

- **Unclear baseline:** Overlapping park boundaries and fragmented data lead to no unified accounting for emissions
- **Difficult enforcement:** Without a digital loop from region to enterprise to product, enforcement is impossible
- **Slow & costly certification:** Manual third-party certification takes 2–3 months, making it slow and expensive

Opportunities

- **Accelerated industrial electrification:** Policies replace fossil fuel-based equipment with electric alternatives, cutting onsite emissions and energy costs
- **Stronger global competitiveness:** Low-carbon products meet CBAM and green market standards, avoiding carbon tariffs and gaining pricing power
- **New power models unleashed:** Green direct connection, VPP, and green hydrogen grow fast, offering flexible renewable energy to parks and industries

Conclusion: Digitalization and integrated energy services can effectively solve problems such as scattered data, untimeliness, and low implementation efficiency.

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Zero-carbon Park Solution

For energy utilization, we are actively building net-zero solutions for new power systems and optimizing and reconstructing source-grid-storage- load to help industries, cities, and even countries separate economic development from carbon emissions, fully realize “carbon neutrality”, and promote the integrated development of industrial civilization and ecological civilization.



Energy Consumption Side -
Energy Saving and Emission Reduction

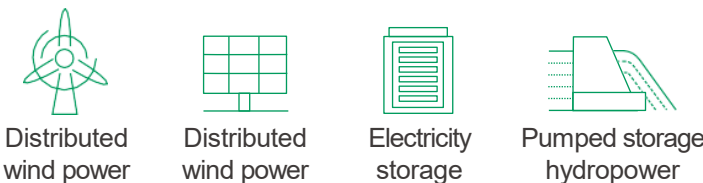
Energy-Saving Ecology

Energy efficiency improvement and energy conservation across industries reduce energy consumption by 5%-15%

Energy Supply Side - New Energy
Supply to Reduce Carbon Emissions

Net-Zero Power Supply

Maximize the consumption of renewable energy in the park, increasing green power consumption by more than 50%



Trading Side - Energy Trading to
Reduce Carbon Emissions

Green Electricity Trading

Increase the proportion of green power consumed by enterprises through green electricity trading

Carbon Emissions Trading

Emissions Trading/CCER trading helps realize "carbon neutrality"

Connected Load

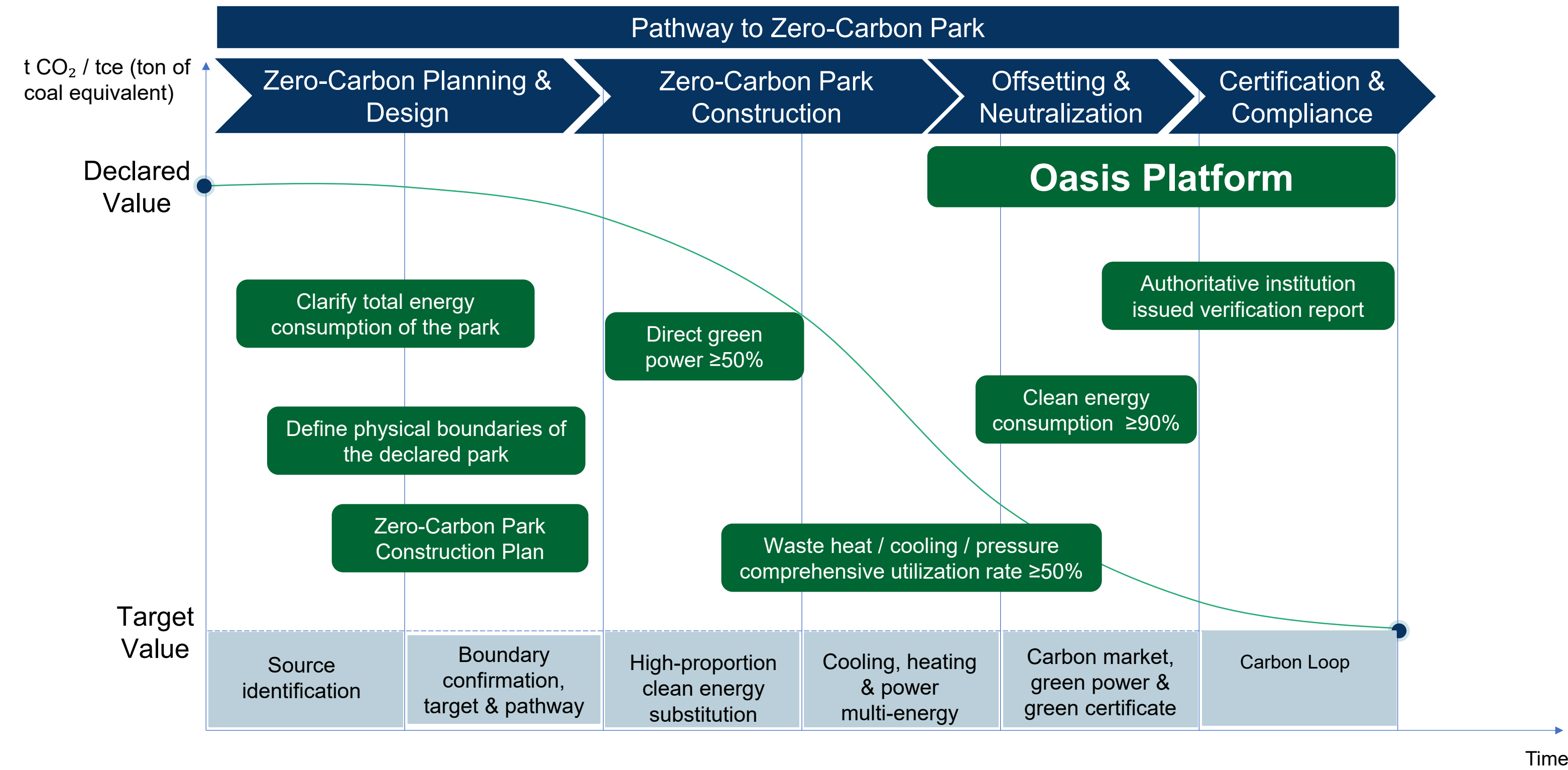
1,500⁺ MW

Net-Zero Project Implemented

560⁺

Oasis Energy & Carbon Management Platform

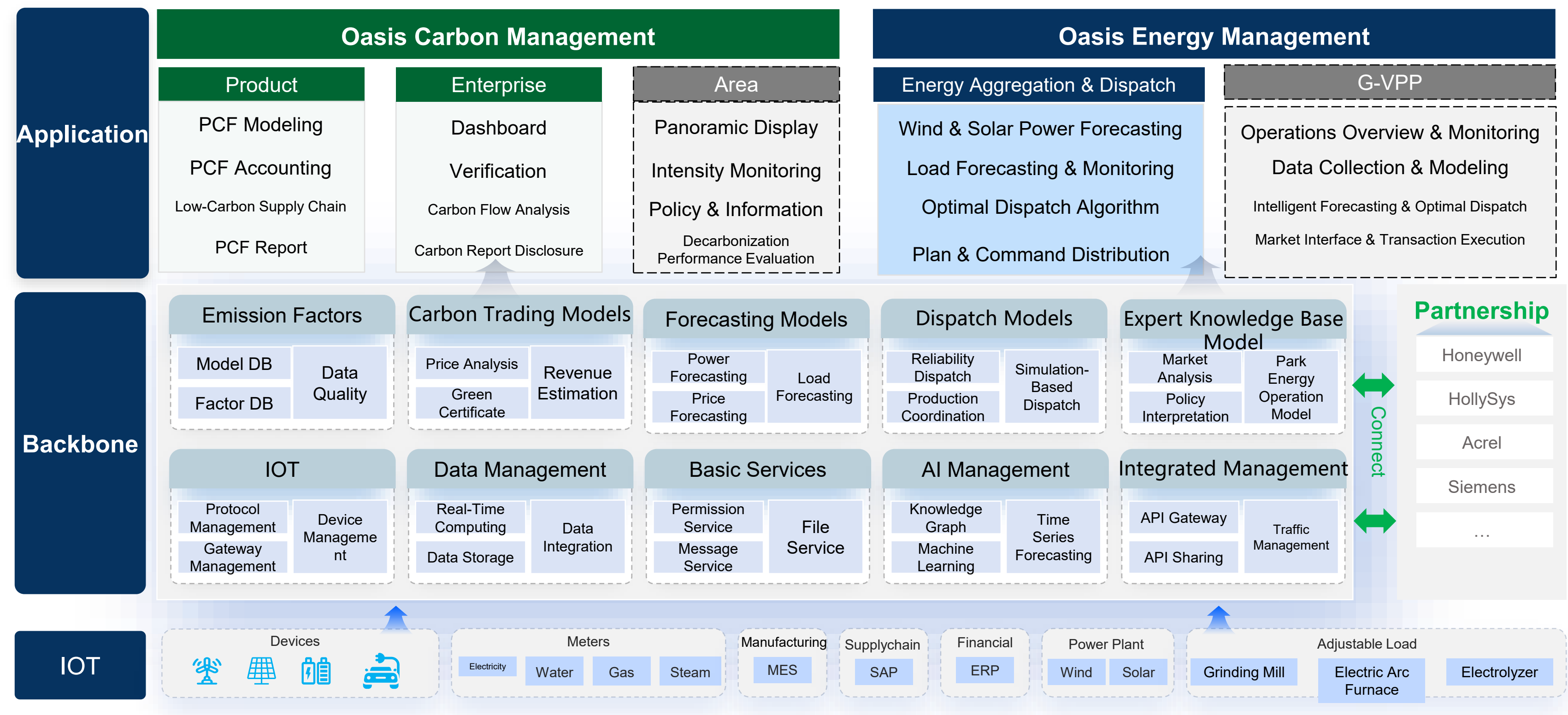
Zero-carbon Park Pathway

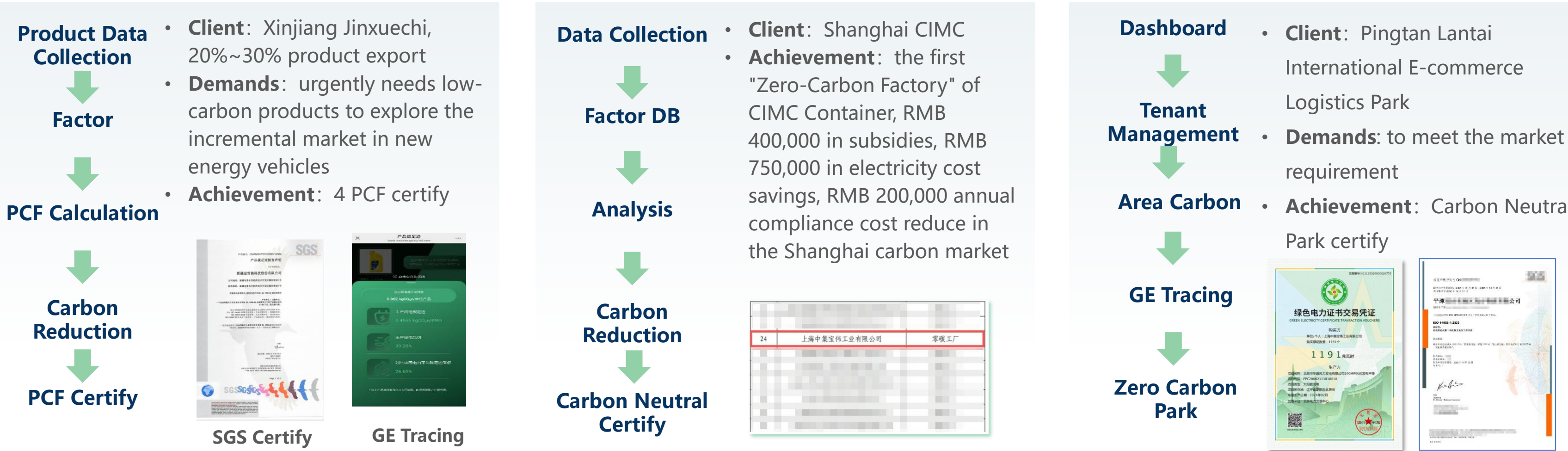


Goldwind Oasis Energy & Carbon Management Platform Architecture



One stop application: Measure→Calculate→Replace→Reduce→Offset→Certify





Dashboard

Tenant Management

Area Carbon

GE Tracing

Zero Carbon Park

Client: Pingtan Lantai International E-commerce Logistics Park

Demands: to meet the market requirement

Achievement: Carbon Neutral Park certify

Green Electricity

SGS Certify

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China’s First “Carbon Neutral” Park

Goldwind’s Net-Zero Smart Park Project

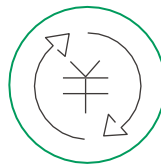
Goldwind Net-Zero Smart Park focuses on energy use scenarios and gathers and integrates technical modules through park operation systems, a centralized control center, and smart portal/applications. It provides energy, office, life, culture, management, health, and other services to various industrial parks to build a green ecosystem. As a result, an industrial site can improve energy utilization efficiency, operation and business management, and promote information resource sharing.

In 2025, the park was awarded the “NGEU” Gold Level Certification under the EU’s NextGenerationEU initiative, launched by the European Commission, becoming a new global benchmark for green parks.



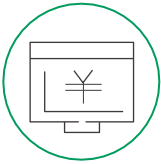
Carbon Emission Cut Due to Green Power

4,260,000 kg



Cost Savings Due to Green Power

4,000,000+ CNY



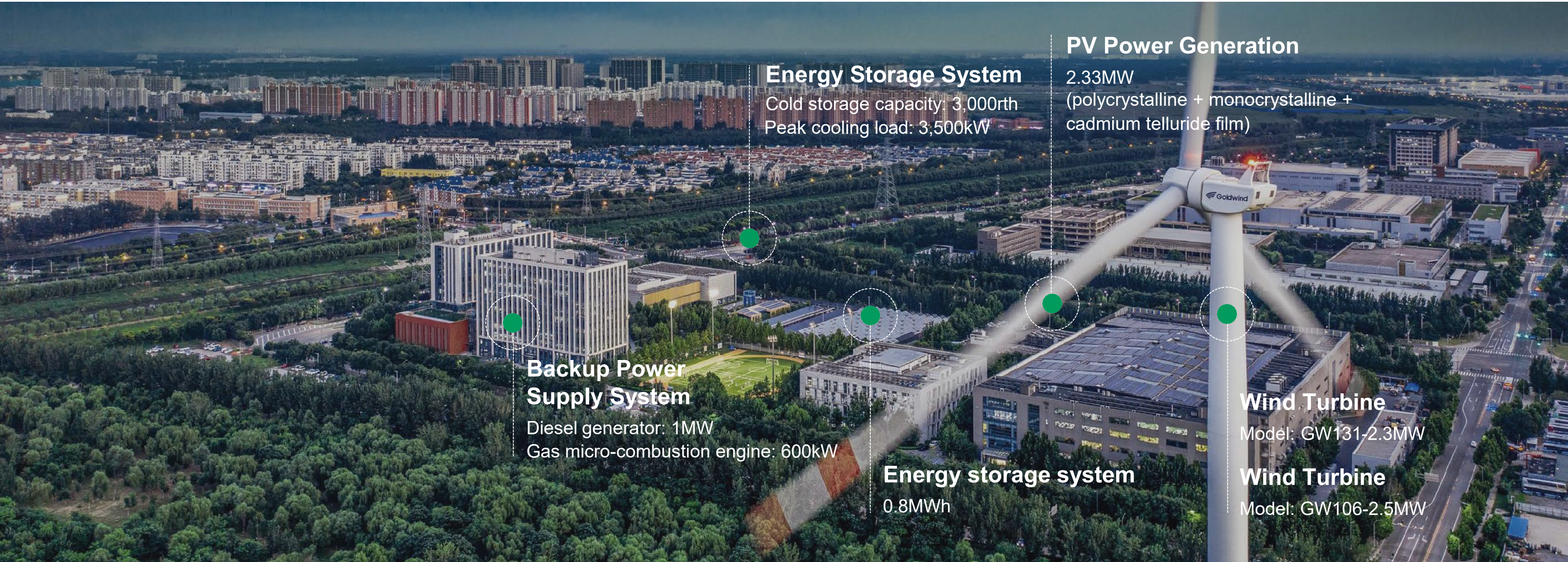
Average Annual Power Cost

348.9 CNY /MWh



Saving of Annual Power Cost

291.1 CNY /MWh



Energy Storage System

Cold storage capacity: 3,000rth
Peak cooling load: 3,500kW

PV Power Generation

2.33MW
(polycrystalline + monocrystalline + cadmium telluride film)

Backup Power Supply System

Diesel generator: 1MW
Gas micro-combustion engine: 600kW

Energy storage system

0.8MWh

Wind Turbine

Model: GW131-2.3MW

Wind Turbine

Model: GW106-2.5MW

Innovating for a Brighter Tomorrow

Goldwind Science & Technology Co., Ltd.

A reliable global strategic partner in clean energy