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2024
Hoyinn Sustainability Report

CONTENTS

About this Report

This report is the first sustainability report published by Hoyinn Technologies Co., Ltd (hereinafter referred to as "Hoyinn"), aiming to disclose our practices and performance in the fields of environmental conservation, social responsibility, and corporate governance in a public and transparent manner.

The reporting period covers from January 1,2024 to December 31,2024. Some data and content may be appropriately extended before and after the reporting period to ensure the completeness and continuity of the information.

As a professional service provider in the data center industry, Hoyinn has always integrated the concept of sustainability into our corporate strategy and daily operations. This report comprehensively presents our significant progress and outstanding achievements in important issues such as green data center construction, responsible operations, employee development, and customer service. We look forward to engaging in in-depth dialogue with all stakeholders through this report and jointly promoting sustainable development in the digital economy era.

Basis for Report Compilation

The following standards and requirements were referred to during the compilation of this report:

- The Sustainability Reporting Standards (GRI Standards) by the Global Sustainability Standards Board (GSSB)
- Standards by the Sustainability Accounting Standards Board (SASB)
- United Nations Sustainable Development Goals (UN SDGs)
- The International Sustainability Standards Board (ISSB) IFRS Sustainability Disclosure Standard 2 - Climate-related Disclosures
- The Basic Standard for Corporate Sustainability Disclosure (Trial) by the Ministry of Finance and other ministries
- Guidelines on sustainability reporting issued by the Securities Regulatory Commission and stock exchanges

Reporting Scope

Except for certain materials that have specific explanations, the policies, statements, and information in this report cover the actual business scope of Hoyinn and its subsidiaries. Unless otherwise stated, the currency unit in this report is the Chinese yuan.

For ease of expression and readability, "Hoyinn Data," "Hoyinn," "we," and "the company" in this report refer to BEIJING HOYINN TECHNOLOGIES CO.,LTD and its operating entities under its operational control.

Reporting Language

This report is published in both Chinese and English. In the event of any discrepancies between the Chinese and English versions, the Chinese version shall prevail.

Contact Us

If you have any questions about the content of this report or would like to offer valuable suggestions regarding Hoyinn's ESG work, please feel free to contact us through the following means:

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Message from Our CEO

Dear Stakeholders,

We are currently at the forefront of the Fourth Industrial Revolution, where green computing power is a powerful driving force for technological progress and industrial upgrading. Hoyinn has always been guided by the concept of sustainable development, building digital infrastructure for the future and laying a green and sustainable foundation for global computing power. We are committed to building a green, sustainable, and mutually beneficial future world.

We are fully aware that reliability is the cornerstone of long-term corporate development. Since our inception, we have integrated the concept of sustainable development into our corporate governance framework. In 2024, we further strengthened our systematic and professional sustainability governance framework. Through a multi-level organizational structure, we ensured the effective implementation of our ESG strategy. We integrated ESG risk management, including climate change, into the entire business process, ensuring the unity of operational compliance and strategic foresight, and providing a solid guarantee for the long-term and stable operation of the company.

To comprehensively address global climate change and promote the peaceful coexistence of man and nature, we continued to implement our green digital infrastructure strategy and contributed to the global net-zero emission process. In 2024, based on our "3+1" green digital infrastructure development strategy, we deeply promoted the concept of coordinated development of computing power, electricity, and carbon reduction. We achieved phased results in the Zhangjiakou "Generation-Grid-Load-Storage" integrated carbon neutrality demonstration project. We innovated in technology and business models to build a green computing power system for the artificial intelligence era, meeting the explosive growth in high-performance computing power. At the same time, we jointly released *the Whitepaper on the Green Computing Power Index for the Entire Life Cycle of Data Centers* with our ecosystem partners, providing scientific and comprehensive guidance for green development and promoting the green transformation of the industry.

Continuous evolution, we are customer-centric and win by innovation. In 2024, we rapidly iterated the AIDC architecture and widely deployed liquid cooling technology. With the "Hoyinn Speed," we set new industry delivery records. The ND14, ND22, and ND23 projects, totaling 152MW of AI computing power infrastructure, were all delivered with high quality within 260 days, fully meeting the expansion needs of customers in the intelligent computing era. In 2024, Hoyinn's green electricity usage reached 18.25%, reducing carbon emissions by 142,000 tons. We continuously obtained CQC and Uptime M&O certifications, comprehensively strengthened information and data security management, and responded to customer needs throughout the entire life cycle, exceeding customer expectations to earn exceptional trust.

Thinking highly of well-beings, we pursue the mutual growth of employees and the company. Hoyinn always regards talent as the most valuable asset of the company. Adhering to the core management philosophy of "people-oriented," we have built a comprehensive talent management system covering rights protection, career development, health and safety, and welfare care. In 2024, through the 724 Growth Camp, Eagle Series talent development program, and rich cultural activities, we enhanced team cohesion and achieved a win-win situation between personal value and organizational development.

Openness and win-win, we create sustainable value with the ecosystem. In 2024, based on our industrial advantages, we deeply integrated the capabilities of governments, think tanks, supply chains, and capital to build a green digital infrastructure ecosystem. We called on ecosystem partners to integrate the concept of sustainable development into every business link and jointly promote industrial progress. In addition, Hoyinn adheres to the concept of "business for good," continuously creating employment opportunities for high-potential regions and promoting regional economic development. We also actively participate in public welfare and environmental protection activities, practicing our corporate social responsibility through concrete actions.

Looking to the future, Hoyinn will continue to shoulder the mission of GED CREATS A SMART WORLD. We will work closely with stakeholders, driven by technological and business model innovation, to deepen the integrated development of computing power, electricity, and carbon reduction. We will write a new chapter of green and low-carbon development, open cooperation, and innovation through concrete actions.

CEO of Hoyinn
Xilin Yang

About Us

Corporate Profile

Introduction

Hoyinn was established in 2020 with the mission of "GED CREATES A SMART WORLD" and is committed to be the leading ecosystem of crossing green energy and data industries. The company focuses on the integration of "new computing power infrastructure + green energy," concentrating on the full life cycle of data centers and cross-industry integration. By integrating digital, energy, and environmental dimensions, it constructs a green computing power system for the artificial intelligence era. Hoyinn collaborates with industry partners to create a green digital infrastructure, supporting diverse computing power scenarios and empowering various industries at a high level. We provide internationally leading solutions for the "digital economy" and the "dual carbon" initiatives, delivering long-term and sustainable value to stakeholders, including customers, employees, investors, and local communities.

Key Milestones

2020 Green Layout

The first largest data center cluster in China

2021 Green Practice

The largest integrated "Generation-Grid-Load-Storage" carbon neutrality demonstration project practice in China

2022 Green Achievement

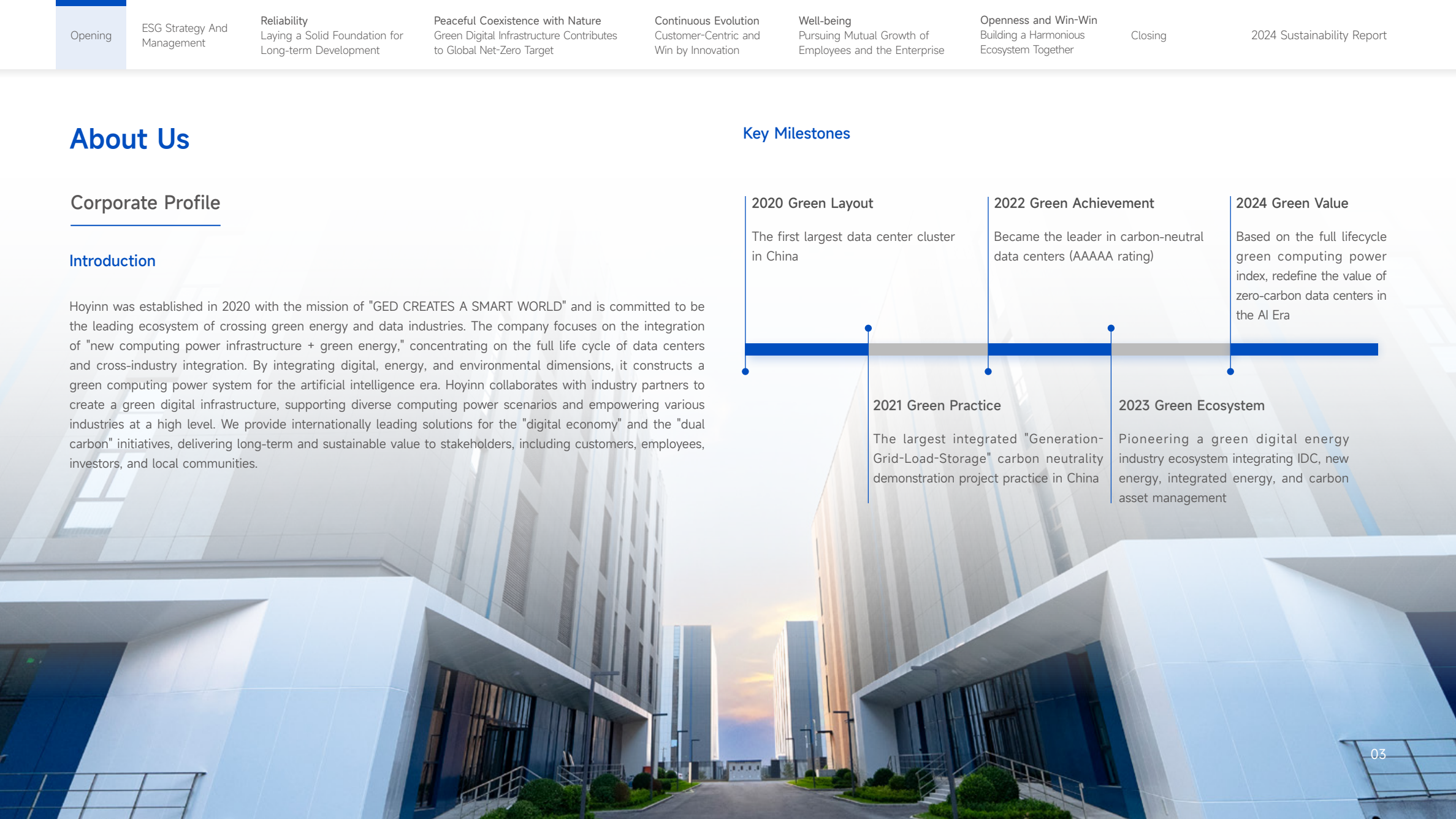
Became the leader in carbon-neutral data centers (AAAAA rating)

2023 Green Ecosystem

Pioneering a green digital energy industry ecosystem integrating IDC, new energy, integrated energy, and carbon asset management

2024 Green Value

Based on the full lifecycle green computing power index, redefine the value of zero-carbon data centers in the AI Era



Business Operation

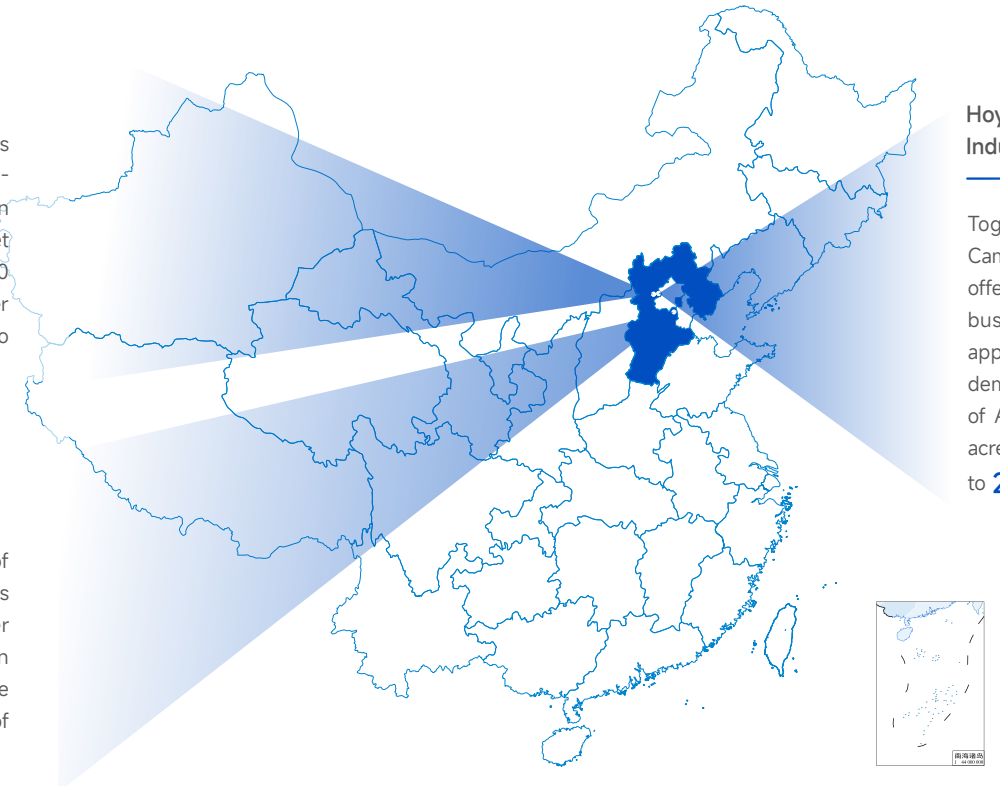
Hoyinn has laid out its green computing power clusters around the national integrated computing power network and national hub nodes, adhering to the principles of green and low-carbon development, large-scale and intensive operations, and high-quality and efficient performance. The company has successively established several new green computing power clusters, including the Hoyinn (Huailai) Technology Industrial Campus, the Hoyinn (Huailai) Intelligent Computing Campus, and the Hoyinn (Langfang) Airport Economic Big Data Industrial Campus. These projects explore new development paths for the coordinated and integrated innovation of computing power, electricity, and carbon reduction. While focusing on the domestic market, Hoyinn actively explores overseas markets, exporting its mature green computing power solutions and sustainable operation experience globally, and is committed to becoming a green digital bridge connecting China and the world.

Hoyinn (Huailai) Technology Industrial Campus

Located in the Huailai Big Data Industry Base in Zhangjiakou, this campus is the largest data center cluster in the Beijing-Tianjin-Hebei national hub node. Through continuous innovation in technical architecture, it can provide customized services to meet different customer needs. The campus covers a total area of 1000 acres and includes 18 computing power centers with a scale of over 10,000 GPU cards, offering a maximum computing power of up to **1000EFlops(FP16)**。

Hoyinn (Huailai) Intelligent Computing Campus

Situated in the Langfang Scientific Research and Innovation Zone of the Beijing Daxing International Airport Logistics Area, this campus covers a total area of 200 acres. It provides computing power services for high-end intelligent manufacturing, new-generation information technology, aviation logistics, aviation technology, life health, and other industries, with a maximum computing power of up to **166EFLops(FP16)**。



Hoyinn (Langfang) Airport Economic Big Data Industrial Campus

Together with the Hoyinn (Huailai) Technology Industrial Campus, forming a multi-modal metropolitan deployment. It offers technical architecture tailored to intelligent computing business, applied to large model iteration training and application inference scenarios. It fully meets customers' demands for multi-point layout and continuous expansion of AI computing power. The campus covers an area of 263 acres and can support a maximum computing power of up to **280EFlops(FP16)**。

GED Creates a Smart World

To Be the Leading Ecosystem of Crossing Green Energy and Data Industries

Customer-Centric

Always focus on customer needs and refine our core business. Through in-depth communication and insight into customer needs, we provide products and services that exceed expectations and are committed to creating the greatest value for customers.

Sustainable Innovation

Embrace change and encourage exploration. In line with industry development trends, we continuously seek iteration and breakthroughs in business models and technical capabilities, driving corporate sustainability through innovation.

Tenacity and Accountable

In the face of challenges and pressure, we take the initiative to shoulder responsibilities, demonstrate a tenacious will and strong execution capabilities, and never give up easily until the goals are achieved.

Results Driven

Focus on goals and pay attention to effectiveness. Emphasize execution efficiency and quality to ensure that all efforts are directed towards valuable outcomes.

Inclusive and Win-Win

Adhere to platform thinking and respect differences. Share risks and benefits with partners to achieve growth through win-win cooperation.

Our 2024

Annual Key Performance

Environmental

In 2024, we established a climate governance structure covering the board of directors, senior management, and execution levels, and clarified the company's pathway to net-zero emissions.

In 2024, we innovatively constructed **the "3+1" green digital infrastructure development strategy**, defining the company's strategic path to address climate change.

In 2024, in collaboration with national think tanks, financial institutions, computing power providers, energy companies, and certification bodies, we held the "Resonance of Digital and Energy, Green Computing Leading the Way" forum and released ***the Whitepaper on the Green Computing Power Index for the Entire Life Cycle of Data Centers***.

In 2024, the under-construction projects at the Hoyinn (Huailai) Technology Industrial Campus obtained **the first sustainability-linked loan** based on the green computing power index in the data center industry **nationwide**.

Social

In 2024, we achieved an exceptional Service Level Agreement **(SLA) of 99.9995%**.

In 2024, completed the security evaluation of the Ministry of Industry and Information Technology's Intelligent Information System, obtained **the third-level security** protection filing certificate, and achieved safe and stable operation of business throughout the year.

In 2024, we accumulated a total of **7** patents, **16** software copyrights, and **11** trademarks, with an additional **6** patent applications in progress. The technical content covers multiple key aspects of green data center construction.

In 2024, through talent development programs such as the "Eagle" series and the 724 Growth Camp, we provided a total of **21,606** hours of employee training, achieving **100%** coverage of all staff.

In 2024, we actively established strategic partnerships with 5 companies in the green digital energy industry value chain to jointly explore new models for **zero-carbon development**.

In 2024, we established a supplier sustainability management mechanism and completed the ESG-related issue assessment for **all suppliers**.

Governance

In 2024, a total of **15** board meetings were held, with a **100%** attendance rate of directors.

In 2024, more than **10** investor communication and site visit activities were organized, further enhancing investors' understanding and confidence in the company.

In 2024, through a comprehensive self-inspection and correction process and a dispute resolution mechanism, potential risk issues were identified and rectified in a timely manner. There were **zero** major tax disputes, and the digital transformation of tax management was actively promoted.

In 2024, all employees signed anti-commercial bribery commitments, and systematic integrity training was **100%** covered, continuously enhancing employees' awareness of integrity and compliance in their work.

In 2024, there were **no** incidents of violation of anti-monopoly or unfair competition regulations.

[1]The "3" represents: One Concept: The coordinated development concept of "computing power, electricity, and carbon reduction."One Scenario: Building a green computing power infratructure for the artificial intelligence era. One Standard: The green computing power index standard for the entire life cycle of data centers. The "1" represents One Target: Green Value. For more details, please refer to the chapter "Peaceful Coexistence with Nature: Green Digital Infrastructure Contributes to Global Net-Zero Target."

Awards and Recognitions

Environment

"Digital Industry 'New Quality Productivity' Action Plan Green Intelligent Computing Benchmark Case"
Organizing Committee of China Intelligent Computing Industry Conference

"Zero-Carbon China 2024 Outstanding Project"
Energy Investment Professional Committee of the Investment Association of China

"DC Tech Low-Carbon Computing Power Pioneer Case"
China Computational Power Conference 2024

"2024 Asia-Pacific Cloud and Data Center Sustainability in Design & Build (Sustainability in Design & Build) "
W.Media

"AAAAA Certification for Carbon-Neutral Data Centers(Operation Category)"
China Academy of Information and Communications Technology (CAICT), Open Data Center Committee (ODCC)

Technology

"Typical Case of Synergy between Computing Power and Electricity"
China Academy of Information and Communications Technology (CAICT)

"Excellent Case of the National Integrated Computing Power Network Application"
National Data Administration (First Batch)

"Gold Award for Energy Storage Innovation Achievements"
Organizing Committee of China Photovoltaic and Energy Storage Industry Coordinated Development Conference

"2023 Data Center Cooling Excellent Project"
Chinese Association of Refrigeration

"Excellent Solution for AI Large Model Application Scenarios"
Council of Industry and Technology Alliances in Z-Park China Communications Industry Association Data Center Committee(CIDC)

Maintenance

Uptime Institute"M&O Certification"
Uptime Institute

"Data Center Operation and Maintenance Model Project of 2023"
China Computer Users Association

"China IDC Industry Efficient Operation and Maintenance Team Award of 2024"
Organizing Committee of China IDC Industry Annual Grand Ceremony

Governance

"China Computing Power Excellence Award 2024"
China Intelligent Computing Industry Alliance

"Talent Development Base for the 'East Data, West Computing' Initiative"
China Communications Industry Association Data Center Committee(CIDC)

"Outstanding Big Data Enterprise"
Hebei Software Integrated Circuit Information Service Association

"Top 100 Enterprises in Comprehensive Competitiveness"
Hebei Software Integrated Circuit Information Service Association

"CFS 2024 Sustainable Development Model Enterprise Award"
The 13th Financial Summit

Sustainability Model

On this planet, all beings share a common destiny, and green has become the underlying tone of global economic development. Hoyinn is writing a brilliant chapter of the era with green and low-carbon development, openness and inclusiveness, and innovation through concrete actions. We will always explore and practice the sustainable development model of "neo-generation computing power infrastructure" research new technologies for coordinated development of "computing power, electricity, and carbon reduction," and build a green digital ecosystem and industrial chain to make our due contribution to the common prosperity of the global digital economy and ecological civilization.

Hoyinn Sustainability Vision

To become a leader in empowering the sustainable development of global computing power infrastructure.

Hoyinn Sustainability Concept-GED[3]

Adhering to the concept of GREEN development, driven by ENERGY technology, we build neo-green computing clusters to support the coordinated development of local DOMAIN.

Through GIANT and intensive layout, we build DEDICATED computing power infrastructure and develop a new model for sustainable development of the digital ECOSYSTEM.

Relying on the integrated green electricity supply system of "generation-GRID-load-storage," we promote the development of the digital economy and EMPOWER the DATA industry upgrade.

Hoyinn Sustainability Commitments

We will continue to build green computing power infrastructure as the foundation, rely on the green digital infrastructure ecosystem, and link across industries with sustainable development symbiosis such as green energy and green finance. Through digital, electrified, and green industry scenarios, we will promote the core drivers of sustainable development, including knowledge, data, capital, and talent. We aim to benefit stakeholders such as customers, employees, investors, and local communities, and jointly promote the realization of the dual carbon goals and sustainable development of the digital economy.

In 2024, Hoyinn's green electricity usage ratio was

18.25%

In the future, the proportion of green electricity will grow by at least

12.5% annually.

By 2030, the proportion of green electricity will reach

100%

ESG Governance

ESG Framework

Open

Hoyinn is committed to openness and win-win cooperation. Through industry ecosystem construction, responsible procurement, and support for public welfare and charity, we convey positive values and strive to inject warmth into social development.

Evolution

Hoyinn actively responds to customer needs, continuously evolves, and strengthens forward-looking technology research and development to ensure alignment with global cutting-edge technologies and provide customers with excellent service beyond expectations.

Peace

Hoyinn strategically focuses on green digital energy to build a coordinated system of computing power, electricity, and carbon reduction. While embracing the wave of large-scale computing power, supplying the green development solutions for our customers, the industry, and society.

Well-being

Hoyinn is people-oriented, regarding employees as the core asset of the company. We safeguard employee rights, create a workplace that is open, fair, and just, and pursue common growth between the company and its employees.

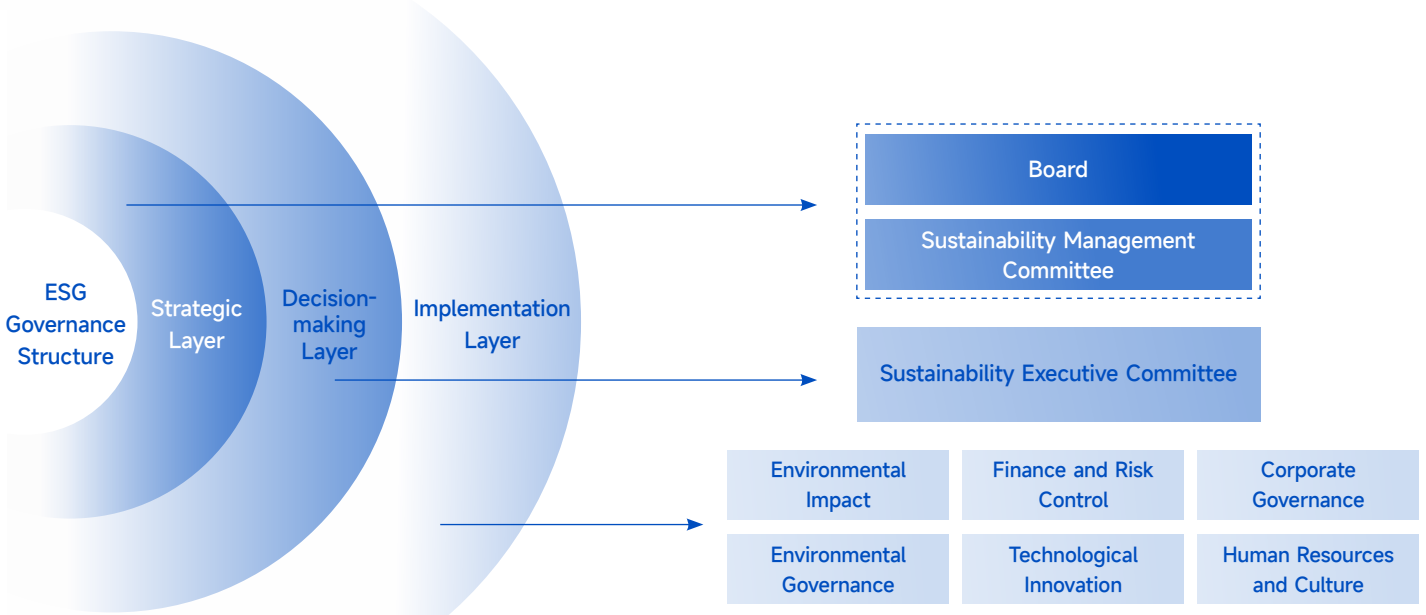
Reliability

Hoyinn upholds integrity and builds a standardized corporate governance system. We adhere to compliance with laws and regulations and self-regulate through high standards of business ethics, contributing positive energy to society.

ESG Governance Structure

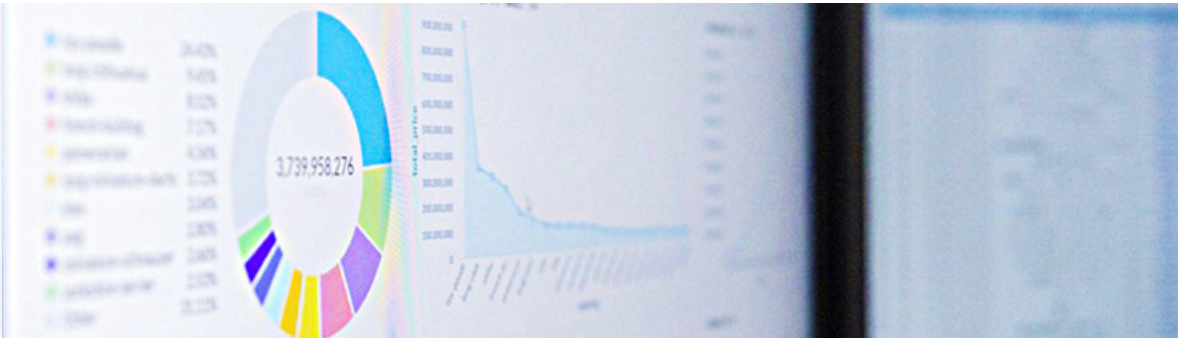
Hoyinn has established a systematic and professional sustainable development governance framework to ensure the effective implementation of the ESG strategy through a multi-level organizational structure.

The Sustainability Management Committee, composed of board members, serves as the strategic layer, responsible for formulating the sustainable development strategy and reviewing major issues. Under this committee is the Sustainability Executive Committee, composed of company executives, which is responsible for advancing the execution of ESG work across various fields. The Executive Committee has established six specialized working groups: "Environmental Impact", "Environmental Governance", "Corporate Governance", "Finance and Risk Control", "Technological Innovation" and "Human Resources and Culture". These groups are composed of heads of various centers/departments. Through professional division of labor and cross-departmental collaboration, they deeply integrate ESG concepts into the company's strategy and operations, providing solid organizational support for the achievement of sustainable development goals.



Dual Materiality Analysis

By analyzing the impact of various issues on the company's financial performance and evaluating their broader social and environmental impacts, the dual materiality assessment accurately identifies ESG issues closely related to business development. This helps the company focus on core ESG governance work, efficiently address new types of risks in the ESG field, enhance its long-term value creation capabilities, and thus promote high-quality development.



Dual Materiality Analysis Framework

Hoyinn has developed a "four-step method" for materiality analysis, covering identification, list building, evaluation, and management integration. This ensures that the materiality analysis not only meets the requirements for sustainable development information disclosure but also deeply integrates with business operations, achieving management promotion through disclosure and driving the company's high-quality and sustainable development.

Value Chain and Stakeholder Analysis

Based on our core business model, we systematically review the links of the value chain, accurately identify key stakeholders and their concerns, and establish a multi-level interactive relationship map.

Sustainability Topics Mapping

We integrate the concerns of stakeholders, global sustainability disclosure standards, ESG rating systems from the capital market, industry focus points, and cutting-edge trend research, and combine these with our actual business characteristics to build a comprehensive sustainability agenda matrix.

Dual Materiality Assessment

Based on industry benchmark analysis and external expertise, combined with the actual operational characteristics of the enterprise, ESG issues are systematically prioritized, through a multi-dimensional evaluation matrix, and core issues with double importance are finally determined.

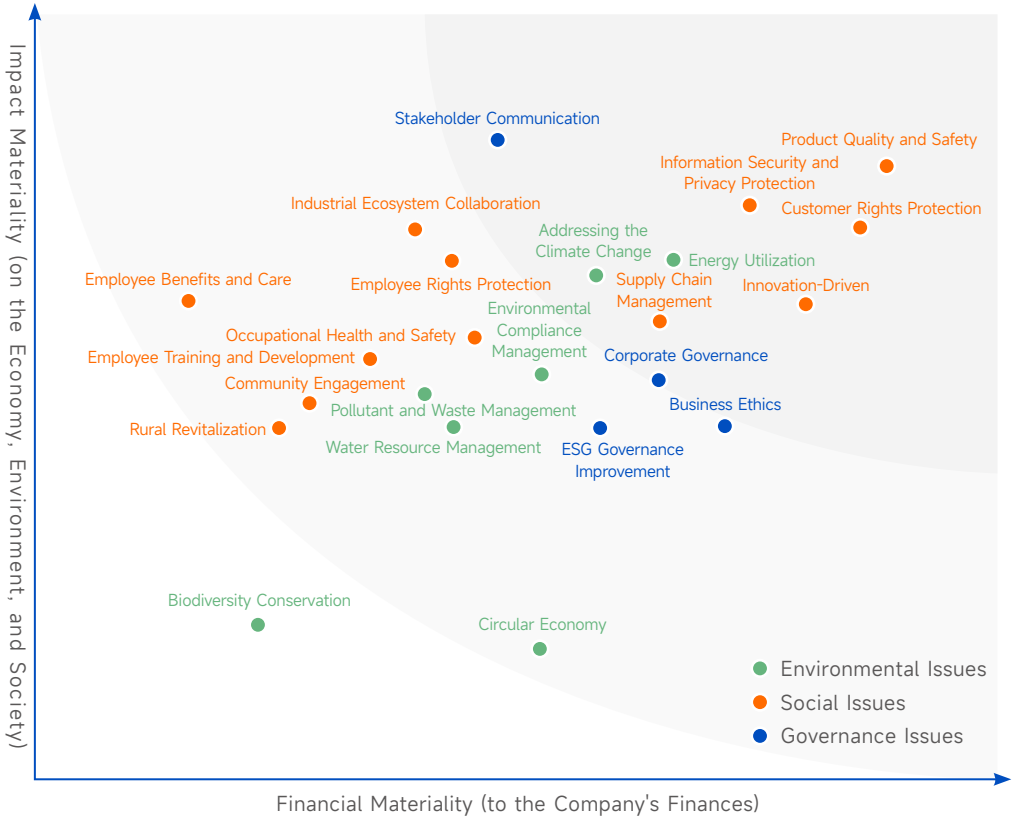
Report Disclosure and Strategic Integration

Systematically integrate the assessment results into the annual sustainability report to ensure the compliance and transparency of information disclosure. Meanwhile, deeply embed key issues into the company's strategic management system, establish a closed-loop management mechanism, and continuously improve the performance of sustainable development.

Hoyinn's "Four-Step Method" for Dual Materiality Analysis

Material Issues Matrix

For the identified material issues, the accountable department conduct systematic management from multiple dimensions and extend the scope of management from internal operations to the entire value chain to ensure comprehensive coverage of relevant areas.



Hoyinn's 2024 Dual Materiality Matrix

Issues of Dual Materiality

- Addressing the Climate
- Change Environmental Compliance Management
- Energy Utilization
- Innovation-Driven
- Product Quality and Safety
- Customer Rights Protection
- Supply Chain Management
- Information Security and Privacy Protection
- ESG Governance Improvement
- Corporate Governance
- Business Ethics

Issues of Financial Materiality Only

- Circular Economy

Issues of Impact Materiality Only

- Pollutant and Waste Management
- Water Resource Management
- Employee Rights Protection
- Occupational Health and Safety
- Employee Training and Development
- Employee Benefits and Care
- Industrial Ecosystem Collaboration
- Stakeholder Communication
- Community Engagement
- Rural Revitalization

Material Issues Impact Analysis

Hoyinn has established a comprehensive mechanism for identifying and managing ESG key issues. Through systematic risk assessment and opportunity analysis, we fully grasp the material issues that have a substantial impact on our operations and value chain. We adopt the internationally recognized dual materiality assessment method, which not only considers the financial impact of issues on the company's sustainable development but also evaluates their significance to stakeholders, ensuring the scientific and forward-looking nature of issue management.

Material Issue	Impact Scope			Nature of Impact		Affected Stakeholders	Risk	Opportunity	Location of Disclosure	SDGs
	Upstream	Own Operation	Downstream	Positive	Negative					
Addressing the Climate Change	✓	✓	✓	✓	✓	• Government and regulatory authorities • Customers • Suppliers and partners	• Stricter global climate policies may lead to increased carbon management costs. • Frequent extreme climate events threaten the operational stability of data centers. • International carbon border adjustment mechanisms increase compliance pressure on cross-border business.	• Climate-resilient data center design can create a differentiated competitive advantage. • Participation in carbon market trading can create new value growth points. • A well-developed climate strategy can efficiently meet customer needs.	Comprehensively Addressing Climate Change	6, 7
Environmental Compliance Management		✓		✓	✓	• Government and regulatory authorities	• Compliance risks due to the continuous tightening of domestic and international environmental regulations. • Technical upgrade pressures brought by regulatory requirements for emerging pollutants.	• Leading environmental management system certifications can enhance international business competitiveness. • Participation in industry standard-setting can increase influence and voice.	"3+1" Green Digital Infrastructure Development Strategy	11, 13
Energy Utilization		✓	✓	✓	✓	• Government and regulatory authorities • Customers	• The assessment of renewable energy consumption responsibility weights brings operational pressure. • Energy price fluctuations affect cost control.	• The application of clean energy technology innovation can reduce long-term energy costs. • Intelligent energy management systems improve operational efficiency and service quality.	"3+1" Green Digital Infrastructure Development Strategy	15

Material Issue	Impact Scope			Nature of Impact		Affected Stakeholders	Risk	Opportunity	Location of Disclosure	SDGs
	Upstream	Own Operation	Downstream	Positive	Negative					
Pollutant and Waste Management		✓		✓	✓	• Government and regulatory authorities • Community and the general public	• The supervision of hazardous waste disposal is becoming increasingly strict, and new electronic waste regulations increase management costs.	• Resource recovery technologies can develop new circular economy models, and green supply chain construction can improve overall environmental performance.	"3+1" Green Digital Infrastructure Development Strategy	
Water Resource Management		✓		✓	✓	• Government and regulatory authorities	• Water resource tax reform increases operating costs, and regional water use restrictions affect project layout	• The use of water-saving technologies and water recycling systems can improve resource utilization efficiency, and participation in water rights trading mechanisms can optimize resource allocation.	"3+1" Green Digital Infrastructure Development Strategy	
Circular Economy		✓	✓	✓		• Government and regulatory authorities • Customers	• The extended producer responsibility system for the entire product life cycle increases management requirements, and the supply of recycled materials is unstable.	• Exploring circular economy models can improve resource utilization efficiency and reduce operating costs.	"3+1" Green Digital Infrastructure Development Strategy	
Biodiversity Conservation		✓		✓	✓	• Community and the general public	• *the Kunming-Montreal Global Biodiversity Framework* requires large infrastructure projects to conduct ecological impact assessments. • Project siting near nature reserves may face monitoring by NGOs.	• Eco-friendly data center design can reduce environmental footprints, and participation in ecological compensation mechanisms can achieve win-win outcomes for all parties.	"3+1" Green Digital Infrastructure Development Strategy	

Material Issue	Impact Scope			Nature of Impact		Affected Stakeholders	Risk	Opportunity	Location of Disclosure	SDGs
	Upstream	Own Operation	Downstream	Positive	Negative					
Innovation-Driven	✓	✓	✓	✓	✓	• Government and regulatory authorities • Customers • Shareholders and investors • Suppliers and partners	• The global AI computing power technology is iterating at an accelerated pace. If the intensity of R&D investment cannot be maintained, there is a risk of falling behind technologically. • International technology blockades are intensifying, and restrictions on the supply chain of key equipment may affect the innovation process.	• The national "East Data, West Computing" strategy promotes innovation in computing power infrastructure, with continuously increasing policy support. • Collaboration with universities and research institutions can accelerate the implementation and application of cutting-edge technologies.	Strengthen Innovation Investment	
Product Quality and Safety	✓	✓	✓	✓	✓	• Customers • Suppliers and partners	• Data center equipment failures may cause service interruptions, affecting customer business continuity. • International standards (such as Uptime Institute Tier certification) are continuously raising requirements for infrastructure reliability.	• Intelligent operation and maintenance technologies can enhance predictive maintenance capabilities of equipment, thereby strengthening system stability. • Establishing brand credibility through industry certifications can help expand the high-end customer market.	Continuously Optimize Customer Service Capabilities	
Customer Rights Protection		✓	✓	✓	✓	• Customers • Community and the general public	• Data sovereignty regulations impose stricter compliance requirements on cross-border data storage. • Customers' requirements for service availability (SLA) are continuously increasing, which may incur additional costs.	• Customized service models can enhance customer stickiness and improve long-term cooperation value. • Transparent communication mechanisms can help build customer trust.	Continuously Optimize Customer Service Capabilities	
Supply Chain Management	✓	✓		✓	✓	• Suppliers and partners	• Geopolitical factors lead to unstable supply of key equipment, affecting project delivery. • Poor ESG performance of suppliers may trigger associated compliance risks.	• Localized supply chain layout can reduce uncertainties in international logistics. • Green procurement policies can drive collaborative decarbonization across the industry chain.	Building a Responsible Supply Chain Together	

Material Issue	Impact Scope			Nature of Impact		Affected Stakeholders	Risk	Opportunity	Location of Disclosure	SDGs
	Upstream	Own Operation	Downstream	Positive	Negative					
Information Security and Privacy Protection		✓	✓	✓	✓	• Customers • Employees	• Data breaches can lead to significant reputational damage and legal accountability. • Global data compliance requirements (such as GDPR, China's Personal Information Protection Law) are becoming stricter.	• Zero-trust security architectures can enhance the defense capabilities of data centers, creating a differentiated competitive advantage. • Obtaining international security certifications can help expand markets with high compliance requirements.	Continuously Optimize Customer Service Capabilities	
Employee Rights Protection		✓		✓	✓	• Management team • Employees	• Adjustments to labor laws may increase compliance costs for employment. • Increased talent competition may lead to a higher risk of losing key technical positions.	• Diverse hiring policies can enhance the company's social image and attract high-quality talent. • Comprehensive employee rights protection mechanisms can retain top talent and support the company's high-quality development.	Protecting Employee Rights	
Occupational Health and Safety	✓	✓		✓	✓	• Management team • Employees • Suppliers and partners	• The high-voltage electrical environment in data centers poses potential operational risks. • Long hours of high-intensity work may affect employees' physical and mental health.	• Intelligent inspection technologies can reduce the risk of human operations in hazardous environments. • Certification of an occupational health management system can enhance the employer brand value.	Protecting Health and Safety	
Employee Training and Development		✓		✓	✓	• Management team • Employees	• Rapid technological iteration leads to a widening skills gap and increased training costs. • New-generation employees have higher expectations for career development paths, making retention more challenging.	• Collaboration with vocational education institutions can customize the training of scarce technical talent. • An internal mentorship program can accelerate knowledge transfer and enhance organizational resilience.	Supporting Talent Development	

Material Issue	Impact Scope			Nature of Impact		Affected Stakeholders	Risk	Opportunity	Location of Disclosure	SDGs
	Upstream	Own Operation	Downstream	Positive	Negative					
Employee Benefits and Care		✓		✓	✓	• Management team • Employees	• Upgraded employee benefits expectations lead to increased human resource cost pressures on the company.	• Flexible benefits programs can meet the diverse needs of employees and enhance satisfaction.	Optimizing Employee Benefits	1, 2, 3, 5, 8, 9, 10, 11, 12
Industrial Ecosystem Collaboration	✓	✓	✓	✓		• Suppliers and partners • Customers	• Lack of unified industry standards may increase the cost of ecological collaboration. • Insufficient ESG capabilities of small and medium-sized enterprises (SMEs) can limit the overall improvement of the industry chain.	• Leading industry alliances can enhance industry influence and promote the joint development of standards. • Empowering SME suppliers with technology can optimize the sustainability performance of the entire supply chain.	Building a Harmonious Industrial Ecosystem	
Community Engagement		✓		✓		• Community and the general public	• Poor management of community relations in project locations may lead to public opinion risks. • Lack of reasonable planning for public welfare resource investment may fail to create more social value.	• Digital skills training can enhance the community's ability to generate its own resources and create shared value. • Professional public welfare project planning can effectively support social development and enhance the company's brand value.	Actively Contributing to Public Welfare and Charity	
Rural Revitalization		✓		✓		• Government and regulatory authorities • Community and the general public	• The investment return cycle for rural digital infrastructure is long, posing significant challenges to financial sustainability. • Regional talent shortages may limit project operational efficiency.	• The construction of “Digital Smart Villages” aligns with national strategies and receives strong policy support. • The layout of distributed computing power nodes can optimize resource utilization efficiency.	Actively Contributing to Public Welfare and Charity	

Material Issue	Impact Scope			Nature of Impact		Affected Stakeholders	Risk	Opportunity	Location of Disclosure	SDGs
	Upstream	Own Operation	Downstream	Positive	Negative					
ESG Governance Improvement	✓	✓	✓	✓	✓	• Customers • Shareholders and investors	• The global convergence of ESG disclosure standards is accelerating, increasing corporate compliance disclosure costs. • Institutional investors' ESG evaluation systems are continuously refined, and rating fluctuations may affect financing conditions.	• Leading ESG governance practices can enhance recognition in the international capital market. • Building a digital ESG management platform can improve data governance efficiency.	ESG Governance	
Corporate Governance		✓		✓	✓	• Government and regulatory authorities • Shareholders and investors	• The new Company Law strengthens the responsibilities of controlling shareholders, and governance flaws may lead to associated legal risks.	• Optimizing the professional structure of the board of directors can enhance the quality of strategic decision-making.	Improving the Corporate Governance System	
Business Ethics		✓		✓	✓	• Government and regulatory authorities • Shareholders and investors	• New types of corruption are constantly evolving, and violations of business ethics may lead to huge fines and legal actions against the company. • If exposed for bribery or corruption, the company may lose customer trust.	• Adhering to high standards of business ethics can help the company gain broader social support and enhance its market competitiveness.	Strengthening Business Ethics Standards	
Stakeholder Communication	✓	✓	✓	✓	✓	• All stakeholders	• Failure to promptly address the concerns of stakeholders may lead to market fluctuations and a decline in investor confidence.	• By effectively communicating and promptly addressing the concerns of stakeholders, the company can enhance their trust and support.	Stakeholder Engagement	

Stakeholder Engagement

Hoyinn places great emphasis on communication with stakeholders and has established a systematic stakeholder engagement mechanism. We comprehensively identify and deeply analyze the core concerns and expectations of each stakeholder group. Based on this, the company has built a closed-loop management system of "identification-response-integration-improvement," effectively transforming the reasonable expectations of stakeholders into key focuses of business decision-making and operational practices. This approach achieves co-creation of value between the company and its stakeholders.

Stakeholder	Focused Issues	Concerns	Hoyinn's Response	Engagement Channel
Government and Regulatory Authorities	• Addressing Climate Change • Environmental Compliance Management • Energy Utilization • Pollutant and Waste Management • Water Resource Management • Circular Economy • Innovation-Driven • Rural Revitalization • Corporate Governance • Business Ethics	• Compliance with laws and regulations in business operations • Ecological protection and green development practices • Energy utilization efficiency and sustainability • Control of pollutant emissions and compliant waste management • Rational use and protection of water resources • Promotion and implementation of circular economy models • Innovation capabilities and development potential • Participation in and contribution to rural revitalization strategies • Improvement of corporate governance structure and transparency • Adherence to the bottom line of business ethics	• Fully fulfill legal and compliance obligations • Legally fulfill tax payment responsibilities • Optimize the structure of energy utilization • Strengthen the management of pollutants and waste • Plan the use of water resources rationally • Promote circular economy models • Increase investment in innovation • Support regional economic development • Improve the corporate governance structure • Strengthen anti-corruption and anti-bribery management	• Routine regulatory communication • Government announcement

Stakeholder	Focused Issues	Concerns	Hoyinn's Response	Engagement Channel
Shareholders and Investors	• Innovation-driven • ESG Governance Improvement • Corporate Governance • Business Ethics	• Strategic positioning and core competitive advantages • Sustainable development strategy and financial health • Environmental, social, and governance performance • Investor relations management • Assessment of corporate governance effectiveness	• Standardize information disclosure management • Establish an investor relations communication mechanism • Improve the shareholder rights protection system • Continuously enhance shareholder value return	• Annual reports • Shareholders' meetings • Online/offline meetings and telecommunications • Investor website and email • Public news
Customers	• Addressing Climate Change • Circular Economy • Innovation-Driven • Product Quality and Safety • Customer Rights Protection • Information Security and Privacy Protection • ESG Governance Improvement	• Reliable services • Rapid customer service response mechanism • Data security and privacy protection • Sustainable development responsibility practices	• Establish a customer feedback handling mechanism • Optimize the service system across the entire value chain • Strictly enforce business confidentiality clauses • Implement customer social responsibility standards	• Comprehensive customer communication channels • Customer satisfaction surveys • Official website • Public news
Suppliers and Partners	• Addressing Climate Change • Innovation-Driven • Product Quality and Safety • Supply Chain Management • Occupational Health and Safety • Industrial Ecosystem Collaboration	• Fair access mechanisms for suppliers • Financial stability and settlement guarantees • Maintenance of strategic partnerships • Building a transparent procurement system • Sustainability and environmental impact of the supply chain • Occupational health and safety management • Development opportunities for industrial ecosystem collaboration	• Ensure suppliers operate in compliance with regulations • Build strategic partnerships • Improve the supplier admission evaluation system • Implement CSR audits of the supply chain • Provide support for occupational health and safety management • Promote industrial ecosystem collaboration	• Supplier conferences • On-site communication and audits • Routine communication

Stakeholder	Focused Issues	Concerns	Hoyinn's Response	Engagement Channel
Corporate Management Team	• Corporate Governance • ESG Governance Improvement • Customer Rights Protection • Employee Rights Protection • Occupational Health and Safety • Employee Training and Development	• The company's strategic execution and market competitiveness • Improvement of ESG governance performance • Efficient corporate management structure • The company's sustained profitability	• Optimize the corporate governance structure • Implement a code of business ethics • Increase investment in research and development • Enhance the core competitiveness of the brand	• Senior strategic meetings • Special task forces • Leadership development programs
Corporate Employees	• Information Security and Privacy Protection • Employee Rights Protection • Occupational Health and Safety • Employee Training and Development • Employee Benefits and Care	• Assurance of stable business operations • Comprehensive protection of employee rights • Occupational health and safety management • Professional capability development system • Fair mechanisms for career development • Measures for information security and privacy protection • Employee benefits and care	• Improve the employee rights protection system • Ensure occupational health and safety • Provide market-based compensation packages • Build a diversified training system • Improve career development pathways • Strengthen the promotion of employee privacy protection • Offer a variety of benefits	• Excellence employee award ceremony • Training and performance review meetings • Cultural activities • Employee communication hotline and email
Community and the General Public	• Biodiversity Conservation • Community Engagement • Rural Revitalization	• Community co-development programs • Value-sharing mechanism construction	• Launching public welfare projects • Participating in community co-construction activities • Promoting regional economic development • Promoting the sharing of social value	• Visiting and surveying community needs • Participating in community development needs communication meetings • Public welfare projects

Reliability

Laying a Solid Foundation for Long-term Development

Hoyinn has always regarded excellent corporate governance as the strategic cornerstone of sustainability. By building a scientific and comprehensive governance framework and strengthening business ethics standards, we continuously enhance corporate governance effectiveness. In terms of improving the corporate governance structure, the company has established a governance framework with clear responsibilities and effective checks and balances, optimized the operational mechanisms of the board's professional committees, and strengthened the risk management and internal control systems to ensure the scientific nature of decision-making and operational compliance. In terms of strengthening business ethics standards, the company has formulated strict codes of business conduct, improved mechanisms for preventing conflicts of interest, strengthened the culture of integrity, and enhanced the compliance awareness of all employees through regular training, providing a solid guarantee for the long-term and stable development of the enterprise.

Our Goals

- Achieve 100% board attendance
- Ensure 100% coverage of business ethics training
- No major tax disputes throughout the year
- Zero occurrences of anti-monopoly and unfair competition incidents

2024 Progress

- 15 board meetings held with 100% director attendance
- 100% coverage of employee business ethics training
- No major tax violations occurred
- Zero occurrences of anti-monopoly or unfair competition incidents

Improving the Corporate Governance System

Hoyinn has always regarded the construction of a corporate governance framework as the core pillar for achieving sustainable development strategies. In 2024, we continued to refine our governance mechanisms, strengthen risk control, deepen capacity building, and elevate our corporate governance to new heights, creating long-term and sustainable value for stakeholders.

Improving Corporate Governance

In accordance with the laws and regulations such as *the Company Law of the People's Republic of China* and *the Securities Law of the People's Republic of China*, Hoyinn has established a well-regulated corporate governance structure comprising the shareholders' meeting, board of directors, and board of supervisors. This structure forms a governance mechanism with clear responsibilities, mutual coordination, and effective checks and balances to ensure efficient and compliant corporate governance.

The board of directors, elected by the shareholders' meeting, is the corporate governance body that exercises governance responsibilities on its behalf. The directors perform their duties with diligence and loyalty, responsible for deliberating on the company's strategic decisions and determining major corporate matters. The company places great emphasis on the diversity and independence of the board. It takes into account the directors' age, gender, work experience, and professional background. The current directors have backgrounds in multiple professional fields, with deep industry experience and rich corporate management expertise, possessing the skills and qualities required for their roles.

In 2024, the company held a total of

15 board meetings **100%** director attendance rate

Consolidating the Compliance System

Hoyinn continuously improves its risk management system to systematically enhance compliance management levels. We have established a risk identification mechanism covering multiple dimensions such as strategy, finance, operations, and market. Through regular risk assessment processes, we conduct systematic checks and graded management of potential risks in business operations. Additionally, we have engaged top consulting firms to assist in refining our risk early warning system, ensuring that business operations are compliant and efficient, and that risks are preventable and controllable.

Three Lines of Defense Control

Hoyinn strictly adheres to the "Three Lines of Defense" control principle, clarifying the risk management responsibilities of business departments, risk control functions, and internal audit departments to form an effective system of checks and balances. Additionally, we have focused on strengthening the formulation and implementation of risk response strategies, establishing special solutions for major risk issues and clarifying the objectives, processes, and resource allocation requirements for risk disposal. To ensure the effectiveness of risk management, the company embeds compliance requirements into all business processes and establishes a regular supervision and evaluation mechanism.

Systematic Auditing

Through systematic auditing, Hoyinn enhances its risk prevention and control capabilities. Special audits have been conducted in key areas such as budget management, internal control, and financial operations to comprehensively evaluate the compliance and effectiveness of business processes. During the audit process, particular attention is paid to the effectiveness of internal controls and the standardization of system implementation. For identified weak links in management, corresponding control measures are promptly improved to promote the continuous optimization of the internal control governance system. Through a feedback and rectification tracking mechanism for audit results, departments are encouraged to deeply understand and strictly implement company management systems, effectively enhancing the compliance awareness and system enforcement capabilities of all employees.

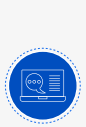
Risk Management Training

Hoyinn continues to strengthen risk management culture, improving the risk awareness of all staff through case education and professional training. The effectiveness of risk management is incorporated into the performance assessment system to ensure the implementation of compliance management requirements.

Whistleblowing and Protection of Whistleblowers

To ensure the effective implementation of the compliance system, Hoyinn has established a diversified whistleblowing channel. We encourage employees, partners, and members of the public to report any suspected violations through phone, email, or mail. This helps to broaden the sources of information and protect the interests of all parties.

The company places great emphasis on respecting and protecting whistleblowers. We strictly keep personal information and materials confidential and limit the number of people who are aware of the details. Hoyinn strictly prohibits any acts of leakage, negligence, retaliation, or hostility. Any such behavior will be severely punished according to the law, and serious cases will be handed over to the judicial authorities.



Whistleblowing Email: jjjc@hoyinn.com

Ensuring Tax Transparency

By continuously optimizing our tax management system and risk control, Hoyinn has successfully upgraded its tax management from basic compliance to a comprehensive strategic value. With a professional tax team, clear division of responsibilities, and robust institutional safeguards, the company has not only effectively controlled tax risks but also laid a solid tax foundation for its sustainable development.

Efficient Tax Governance

Three-level tax governance structure

Hoyinn has established a systematic three-tier tax governance structure to provide organizational support for tax compliance and strategic management. At the strategic decision-making level, the board of directors and the vice president of finance are responsible for approving the tax strategy direction to ensure that tax management is in line with our ESG goals. The executive management layer is led by the Finance Center, with dedicated tax positions responsible for policy formulation and compliance control, and financial BPs implementing specific actions. The collaborative support layer integrates resources from legal, IT, and external professional institutions to form a comprehensive tax support network, ensuring both the strategic height of tax decisions and the professionalism and coordination of execution.

Compliance with Laws and Regulations

Hoyinn has established a tax management system based on "compliance as the foundation, strategy as the guide, and ESG as the core," strictly adhering to domestic and international laws and regulations as well as international tax rules. At the domestic level, Hoyinn fully implements core regulations such as the "*Enterprise Income Tax Law of the People's Republic of China*" and the "*Added Tax Law of the People's Republic of China*," and actively responds to special policies in areas such as the digital economy and green transformation. At the international level, Hoyinn strictly follows the OECD transfer pricing guidelines and bilateral tax treaties to regulate cross-border transactions.

Institutional Development

Hoyinn has formulated a series of internal systems, including the "Tax Management System" and the "Tax Return Management Measures," covering the entire business process of tax registration, invoice management, and tax declaration, thereby establishing a systematic and standardized tax management mechanism.

Tax Risk Management

Hoyinn has established a tax risk management system centered on "prevention first, dynamic monitoring, and closed-loop rectification." Through three layers of protection-systematic norms, technological support, and cultural development-the company achieves tax risk prevention and control across all business processes. The company implements a tax intervention mechanism at the front end of business operations, conducting professional tax assessments before signing major contracts. It focuses on reviewing the tax efficiency of transaction structures, potential risk points, and the feasibility of ESG-related tax incentives to ensure that business decisions balance tax compliance and strategic value.

In terms of risk identification, the company has established an integrated audit mechanism linking business, finance, and tax data to accurately verify the consistency of business contracts, cash flows, and invoice data. It also implements cross-system data comparison to ensure accurate matching of tax declaration data with financial accounts and business contracts.

For identified tax risks, the company implements a tiered response management mechanism. Depending on the risk level, different response plans are formulated, such as rapid handling within 5 working days, medium to long-term monitoring to the rectification, or engaging third-party professional institutions for review.

Low Risk: Complete tax risk handling within 5 working days and submit an explanation and rectification plan.

Medium Risk: Develop response measures and remediation plans based on the risk category, and record risk indicators in a memorandum for long-term continuous monitoring.

High Risk: Develop a risk resolution plan based on risk assessment and impact analysis results, and have it reviewed and confirmed by a third-party tax advisor.

Boosting Capability Development

Hoyinn attaches great importance to the professional capacity building of the tax team. By establishing a systematic training system, the company continuously enhances the team's professional quality. In 2024, with the goal of "precise empowerment and compliance improvement," the company focused on specialized training topics such as the full process management of digital invoices and the annual settlement of corporate income tax. The digital invoice training covered the entire process of issuance, receipt, accounting, and archiving, significantly improving the efficiency and accuracy of invoicing. The corporate income tax training focused on the tax treatment of complex transactions such as related-party loans. Through case-based teaching, the team gained a deep understanding of policy points, enhancing their ability to grasp policies and practical operational skills.

In terms of external collaboration, the company adheres to the principle of "precise alignment and collaborative governance," actively participating in policy research and industry exchanges with tax authorities. In 2024, Hoyinn participated in four special surveys and put forward constructive suggestions on topics such as green tax support for the data center industry. As a Grade A tax credit enterprise, we were also invited to share its tax risk management experience in a special training session organized by the State Taxation Administration. The proposed "four-dimensional prevention and control model" was listed as an industry methodology. These exchanges not only promoted positive interactions between the company and tax authorities but also contributed professional insights to the optimization of industry tax policies.

In 2024, the company actively promoted the digital transformation of tax management, achieving a qualitative leap in tax management efficiency through system optimization. The "tax report" module built into the system realized the standardized collection and intelligent processing of tax data for all types of taxes, covering all controlled entities in the IDC sector. The built-in tax burden rate analysis model and intelligent report functions in the system provided real-time and accurate data support for tax decision-making. The in-depth application of these digital tools significantly reduced the time required for tax compliance checks and greatly improved management efficiency.

Enhancing Business Ethics Standards

Hoyinn regards integrity in business as the core principle for corporate development and has established a comprehensive anti-corruption and compliance management system. Through institutional constraints, process control, and whistleblower protection mechanisms, we ensure that business conduct complies with legal and ethical standards, continuously maintaining a fair competitive market environment.

Regulating Business Ethics

Anti-Corruption and Bribery

Hoyinn regards integrity in business as the core principle for corporate development, integrating compliance awareness and business ethics into corporate culture and the daily behavior of employees to ensure that every business operation complies with legal and ethical standards. In practice, we require employees to translate compliance commitments into concrete actions, making business ethics not only a matter of institutional policy but also a voluntary practice for all employees.

We have established a comprehensive anti-corruption and compliance management system, following relevant systems for anti-fraud, anti-bribery, anti-improper benefits, and whistleblower management. It explicitly requires all employees to prohibit any form of commercial bribery, benefit transfer, and other illegal or non-compliant behaviors. *The Employee Handbook* further refines the code of business conduct and includes it as a mandatory part of new employee onboarding training to ensure that every employee fully understands and signs a compliance commitment letter. In 2024, the employee signature rate reached 100%. In addition, the company conducted systematic integrity training throughout the year, achieving full coverage of all staff and continuously enhancing employees' awareness of integrity and compliance in their work. In supply chain management, Hoyinn strictly enforces the integrity commitment mechanism, requiring all suppliers participating in the bidding to read the integrity commitment letter at the bid opening site to ensure that business cooperation takes place in a fair and transparent environment. Through contractual constraints, supplier assessments, and a "one-vote veto" mechanism, Hoyinn integrates anti-corruption requirements throughout the entire supply chain process, working with partners to maintain a healthy and compliant business ecosystem.

In 2024, the employee compliance commitment letter signature rate reached

100%

In 2024, the coverage rate of systematic integrity training for employees reached

100%

Anti-Unfair Competition

Hoyinn strictly complies with relevant laws and regulations, including *the Anti-Monopoly Law of the People's Republic of China, the Anti-Unfair Competition Law of the People's Republic of China* and *the Civil Code of the People's Republic of China,* as well as international standards, to ensure compliance in anti-monopoly and anti-unfair competition matters.

Key Performance

In 2024,

the company did **not** have any incidents of violation of anti-monopoly or anti-unfair competition regulations.

Building Transparent Communication

Hoyinn is committed to building comprehensive and multi-level communication channels and mechanisms to engage deeply with all stakeholders in an open manner. The company has established a robust investor relations management system, maintaining close communication with investors through traditional means such as telephone and email, as well as through emerging channels like the company website and new media platforms. We actively pay attention to and collect investors' opinions and suggestions, and provide timely and proactive responses to matters of concern to investors, promoting two-way communication between the company and investors and fully safeguarding the legitimate rights and interests of shareholders. In 2024, Hoyinn organized more than ten investor exchanges and site visits. Through these activities, we fully demonstrated the company's new achievements and victories in business development and technological innovation, further enhancing investors' understanding and confidence in the company.

In terms of information disclosure, although Hoyinn Data is not a publicly listed company, we still maintain a high sense of responsibility and transparency. Through channels such as the official website and WeChat public account, we strive to respond to external concerns in a timely, accurate, and complete manner. For sustainability information, the company has set up a dedicated "Sustainability" section on its official website, where we detail our sustainability philosophy and practical achievements. We timely and accurately convey the company's updates in environmental, social, and governance aspects, fully demonstrating the company's commitment and strategic planning in fulfilling social responsibilities and promoting sustainable development. Through these actions, we practice our commitments to stakeholders and strive to create a transparent and open communication environment.

Peaceful Coexistence with Nature

Green Digital Infrastructure Contributes to Global Net-Zero Target

Currently, frequent extreme climate events make the addressing climate change become a global consensus. Hoyinn, with its corporate mission of "GED CREATES A SMART WORLD" and the development vision of "To Be the Leading Ecosystem of Crossing Green Energy and Data Industries," is actively exploring action plans for the data center industry to combat climate change. In 2024, we advanced the integration of the digital and low-carbon economies through its "3+1" Green Digital Infrastructure Development Strategy. Additionally, we collaborated with financial institutions to innovate and launch a Sustainability-Linked Loan (SLL) based on the Green Computing Power Index. This "technology + finance" dual-driven model has developed a comprehensive green solution across the entire industry chain, contributing Chinese wisdom and practice to the global digital economy.

Our Goals

- All operational projects to obtain green building certification
- Continuous reduction of annual PUE and WUE
- Establishing a national pilot project for demonstrating the synergy between computing and electricity
- Continuously increasing the proportion of green electricity usage

2024 Progress

- Four projects passed green building professional assessment
- Annual average PUE at 1.229 and WUE at 0.851
- Developed the "3+1" Green Digital Infrastructure Development Strategy
- Green electricity usage ratio reached 18.25%

Comprehensively Addressing Climate Change

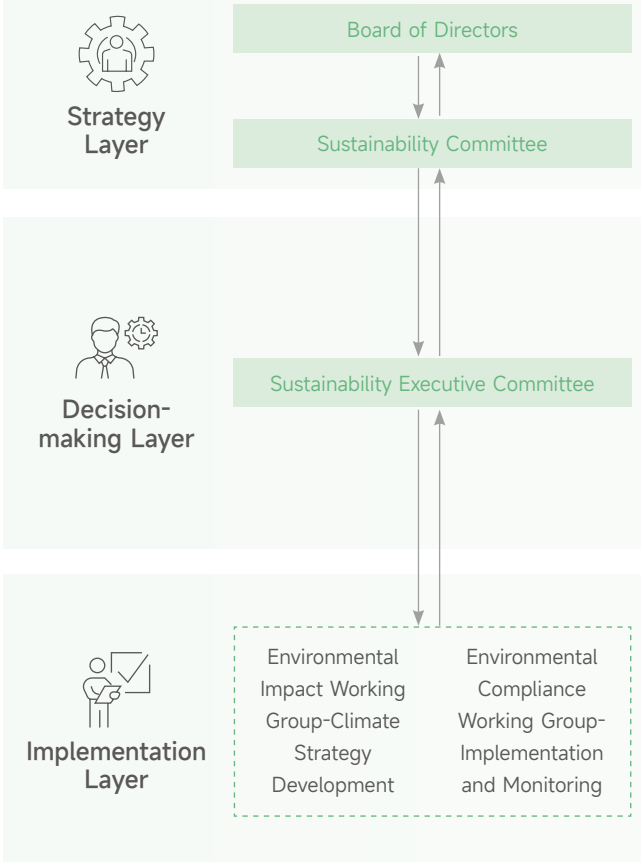
The rapid development of AI technology has brought unprecedented energy and climate challenges to the data center industry. As a pioneer of industry transformation, Hoyinn deeply recognizes that comprehensively addressing climate change is not only a corporate responsibility but also a strategic opportunity to drive sustainable industry development. In 2024, we integrated the concept of "synergistic development of computing power, electricity, and carbon" deeply into our corporate strategy, improved the management of climate risks and opportunities, and continuously promoted the evolution of computing power infrastructure towards efficiency, low-carbon, and sustainability through dual-drivers technological and model innovations.

Climate Governance

Consolidating Systematic Governance

To ensure the systematicity, standardization, and effectiveness of our climate change response efforts, we have currently established a governance framework from the board of directors to the executive level, achieving strategic synergy and efficient execution.

Hoyinn's Climate Change Governance Framework



The board of directors treats climate-related matters as a specific agenda item, regularly discussing and reviewing the company's work on climate risks and opportunities. Meanwhile, the Sustainability Committee, which is a subcommittee of the board, is responsible for the overall execution and oversight of the climate change strategy, ensuring alignment with the company's overall strategy.

Hoyinn has established a Sustainability Executive Committee, composed of senior management personnel, which reports directly to the Sustainability Committee and presents environmental affairs to the board of directors annually. In addition, the company has developed processes and mechanisms for climate-related risk management, clarifying the management's responsibilities in assessing and managing climate risks to strengthen climate change management. The CEO of the company is fully responsible for the climate change strategy and its implementation, supervising, inspecting, and guiding the execution of environmental protection, and regularly reporting the annual achievements to the Sustainability Committee and the board of directors.

We have also set up a Working Group on Environmental Impact and a Working Group on Environmental Compliance, which are responsible for formulating and implementing the company's environmental policies, goals, and related action plans, ensuring that the company takes proactive and effective measures on climate change and other environmental issues. Their responsibilities include, but are not limited to, formulating environmental strategic planning programs, putting forward suggestions for setting emission reduction targets, monitoring environmental performance, and promoting the implementation of sustainable development projects.

Refining Management Procedures

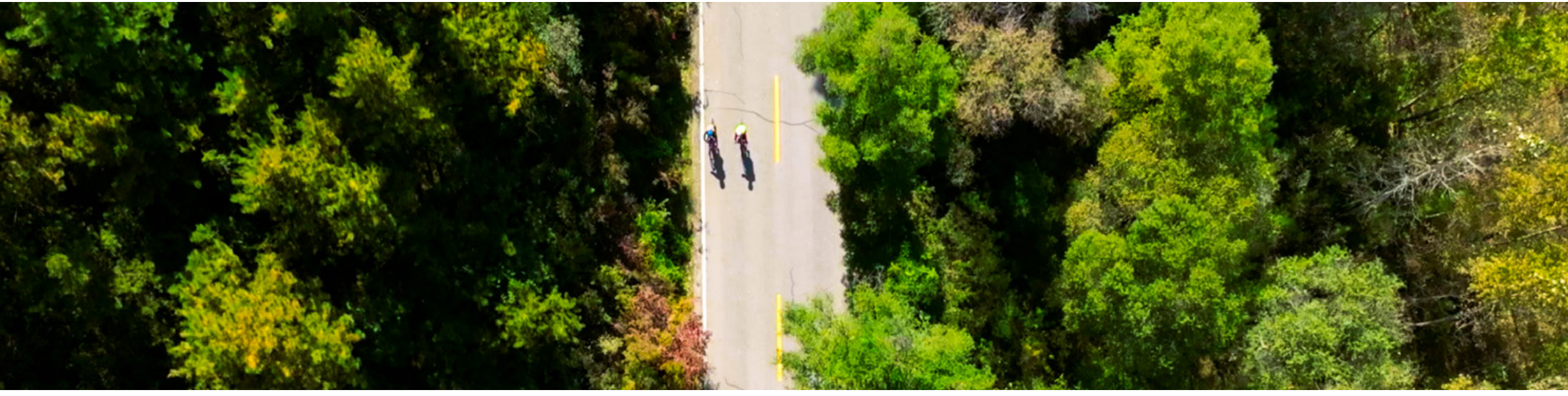
In 2024, to further address the foundational management work in response to climate change, Hoyinn formulated and issued *the Regulation for Carbon Emission Data Reporting in Data Centers*, *the Regulation for Verification of Carbon Emission Measurement Equipment in Data Centers*, and *the Regulation for Retention of Carbon Emission Records in Data Centers*.

These documents specify the internal departments responsible for the statistics and calculation of Scope 1, Scope 2, and Scope 3 data, as well as the management and maintenance of relevant measurement equipment and data archiving. They also standardize the statistical methods and calculation approaches to provide a regulatory basis for subsequent follow-up and assessment of the achievement of climate change targets.

Climate Strategy

Standardizing Climate Risk Analysis

Hoyinn has incorporated climate change response into our ESG management system in accordance with the IFRS S2 framework. We conduct routine management of risks and opportunities related to the organizational environment and the requirements and expectations of stakeholders, thereby comprehensively advancing the company's sustainable development.



Risk Analysis

Physical Risks				
Category	**Risk Incidents**	**Risk Description**	**Duration of Impact**	**Risk Response**
Acute Risks	Increased severity of extreme weather events such as cyclones and floods	Extreme climates are becoming more frequent, which can bring additional challenges to the construction and operation of data centers.	Long term	• Refine the sustainability governance framework, optimize the division of responsibilities, and regularly assess any adverse impacts of extreme climates on daily operations; • Develop emergency response plans and oversee the preparedness of all departments; • Monitor relevant weather forecasts near key delivery dates with suppliers and customers to provide early warnings; • Conduct regular inspections of production sites to evaluate the risk of heavy rain and flooding.
		Extreme climates threaten employee health, deplete the company's physical assets, and create additional operating costs.	Long term	• Develop emergency response plans for extreme weather and regularly organize emergency drills; • Conduct regular maintenance of infrastructure to enhance risk response capabilities; • Care for employee health by appropriately carrying out caring activities such as providing warmth and coolness.
Chronic Risks	Water scarcity and shortage	• Climate change leads to water scarcity, affecting the water resource management of data centers; • The reduction of water resources results in increased water purchase costs, creating additional operating expenses.	Medium to long term	• Actively promote research and development related to WUE to reduce water consumption in data center operations; • Invest in rainwater harvesting and other water recycling facilities to improve water utilization efficiency.
	Rising sea levels	• Infrastructure located in low-altitude areas is at risk of flooding, causing certain damage to facilities; • Suppliers in low-altitude areas may face supply instability, which in turn increases the complexity of supply chain management.	Long term	• Regularly assess the risks faced by business operations located in low-altitude areas, and increase insurance investment as needed; • When evaluating suppliers, consider the relevance of low-altitude risks. And reserve alternative suppliers for those with higher risk factors.

Transition Risks				
Category	**Risk Incidents**	**Risk Description**	**Duration of Impact**	**Risk Response**
Policy and Legal Risks	Green and low-carbon policies being introduced successively	The "Dual Carbon" policies are further implemented, with more stringent requirements on indicators such as PUE for data centers, leading to increased operational costs for companies in terms of technological innovation investment and equipment optimization procurement.	Medium to long term	• Strengthen communication with governments and industrial ecosystems to understand policy trends; • Enhance innovation and application of low-energy technologies; • Collaborate with suppliers to provide low-energy equipment and facilities.
	Uncertainty of climate policies in overseas markets	Overseas markets differ from the domestic market in terms of regulatory policies on climate change and other areas, which puts pressure on business operations and affects market opportunities.	Short to medium term	• Enhance the analysis and judgment of overseas policies and regulations, and maintain a close integration with business operations; • Flexibly adjust the climate strategy to ensure consistency and compliance; • Actively participate in international climate-related activities to broaden our perspective and enhance compliance.
	Standardized design and construction	Standards and regulations for data center construction have become more detailed, potentially leading to forced changes of planning and design.	Medium to long term	• Strengthen planning and design capabilities to mitigate the impact of rising costs; • Actively participate in industry exchange activities to ensure the advancement of our technical system.
Market Risks	Market preference for low energy consumption and low emissions	Customers' preference for low-energy, low-emission data centers continues to strengthen, and failure to meet these requirements will weaken our competitive advantage.	Medium to long term	• Promote continuous optimization of indicators such as PUE, WUE, and CUE; • Actively participate in industry association activities, customer and supplier conferences, and other events to keep abreast of market trends in a timely manner; • Continuely promote the implementation of Generation-Grid-Load-Storage to form a strategic advantage.
	Maturity of climate change in the value chain	Insufficient climate change response capabilities in the value chain indirectly affect the green value of the products and services we provide.	Medium to long term	• Strengthen value chain empowerment and support suppliers' green development; • Actively seek out suppliers that meet low carbon requirements to build a resource pool.

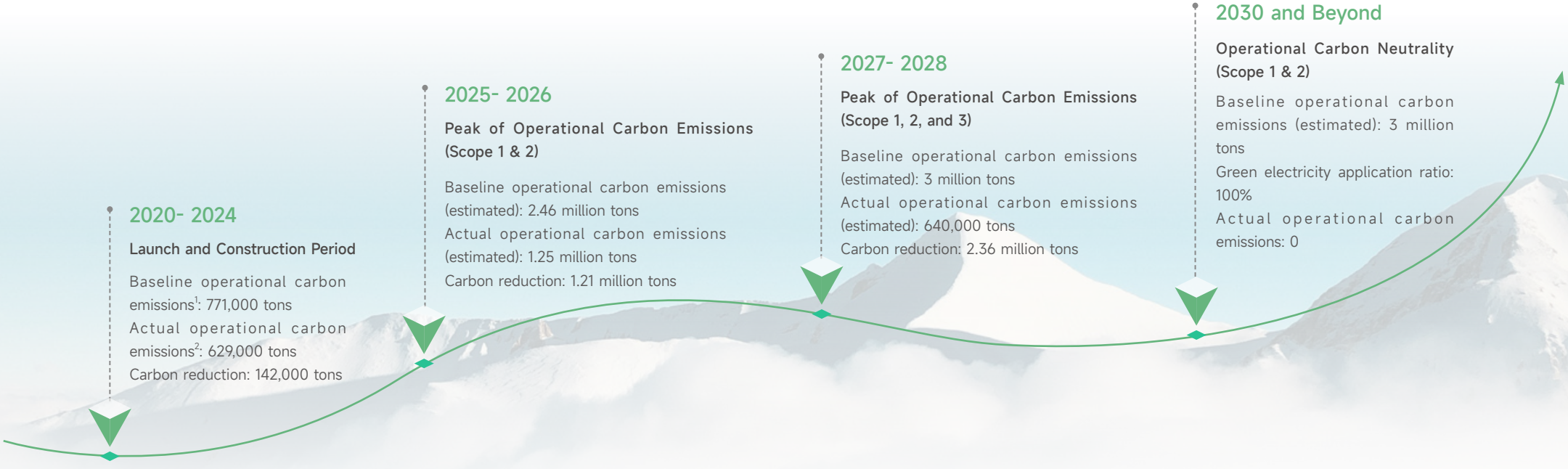
Transition Risks				
Category	**Risk Incidents**	**Risk Description**	**Duration of Impact**	**Risk Response**
Market Risks	Surge in demand for green computing power	The market demand for green computing power has increased significantly, leading to higher costs for companies to purchase green electricity/green electricity certificates.	Short to Medium term	• Strengthen the development and application of low-energy and low-emission technologies; • Continuously promote and optimize the green computing power index, and strictly follow the relevant requirements; • Promote the implementation of the Generation-Grid-Load-Storage strategy.
Technology Risks	Water-saving technology innovation and application	Without forward-looking water-saving technology innovation, the improvement of water-saving efficiency is slow when facing water scarcity.	Medium to long term	• Strengthen the development of low-water and zero-water technologies to form a competitive advantage in WUE management; • Regularly assess water pressure and formulate response plans based on the assessment results.
	Low-energy and low-emission technology innovation and application	If we fail to continuously and effectively promote the innovation and application of low-energy and low-emission technologies, we will have to purchase a large amount of carbon offsets and install energy-saving equipment to meet stricter energy-saving and emission reduction requirements, resulting in additional operating costs.	Short to Medium term	• Strengthen the development and application of low-energy and low-emission technologies; • Promote the implementation of the Generation-Grid-Load-Storage strategy.
Reputation Risks	Inadequate Response to Climate Change	When responding to climate change, a lack of sufficient ambition and action may lead to customer dissatisfaction.	Medium to long term	• Persist in resource allocation for the research and development of energy-saving technologies, optimization of energy-saving facilities, and purchase of green electricity certificates; • Actively engage in cooperative exchanges and brand communication activities, being realistic in conveying Hoyinn's climate ambitions and actions; • Establish open and transparent communication mechanisms and procedures.
	Green Wash	Exaggerated publicity can create greenwashing risks, resulting in brand crises and administrative penalties, which incur additional operating costs.	Short to long term	• Establish open and transparent communication mechanisms and procedures; • Regularly review the progress of climate change initiatives and continue to advance them.

Opportunity Analysis

Category	Opportunity Incidents	Opportunity Description	Duration of Impact	Opportunity Response
Products and Services	Low-carbon capabilities is becoming a core competitive strength	The increasing demand from policies and customers for low-carbon digital services can be effectively addressed by the company's green digital infrastructure strategy, which enhances product and service quality and increases potential revenue.	Medium to long term	• Continue to advance the green digital infrastructure strategy and the project of Generation-Grid-Load-Storage; • Enhance communication with customers and the market to ensure effective information dissemination.
Resource Efficiency	Green energy	Our business layout in green energy has built a solid market advantage for the enterprise, enhanced its competitiveness, and increased potential revenue.	Short to long term	• Strengthen business collaboration; • Promote the layout of green energy.
	Energy efficiency	The relevant technologies are becoming more mature, offering more possibilities for continuous optimization of energy consumption, reducing operating costs, and increasing potential revenue.	Short to long term	• Ensure innovation and investment in green technology to form innovative solutions and empower industry transformation.
	Water use efficiency	Water consumption has become an important indicator in data center management. Our investment in this area will yield greater returns and reduce operating costs.	Short to long term	• Strengthen the innovation and investment in water resource utilization technology to form innovative solutions and empower industry transformation.
Green Financing	Further broadening of funding channels	Green criteria becoming a significant consideration for financial institutions' investments, offering more possibilities for our future financing, reducing financing costs, and enhancing the green value of assets.	Medium to long term	• Promote the effective implementation of Hoyinn's green digital infrastructure strategy; • Strengthen ESG and green information disclosure to facilitate financial institutions' business assessments.
Resilience	Business continuity	The increasing demands from customers for continuous data services mean that effective climate risk management can solidify customer relationships and increase potential revenue.	Medium to long term	• Promote the routine conduct of climate change scenario analysis and effectively integrate it with business operations.

Our Net-Zero Emission Strategic Roadmap

In 2024, we comprehensively referenced authoritative net-zero planning frameworks and regulatory requirements such as the SBTi and ISO Net-Zero Guidelines. Based on a comprehensive assessment of the company's current emissions and business growth factors, we have clarified the net-zero emission path for the enterprise.



2020- 2024

Launch and Construction Period

Baseline operational carbon emissions[1]: 771,000 tons
Actual operational carbon emissions[2]: 629,000 tons
Carbon reduction: 142,000 tons

2025- 2026

Peak of Operational Carbon Emissions (Scope 1 & 2)

Baseline operational carbon emissions (estimated): 2.46 million tons
Actual operational carbon emissions (estimated): 1.25 million tons
Carbon reduction: 1.21 million tons

2027- 2028

Peak of Operational Carbon Emissions (Scope 1, 2, and 3)

Baseline operational carbon emissions (estimated): 3 million tons
Actual operational carbon emissions (estimated): 640,000 tons
Carbon reduction: 2.36 million tons

2030 and Beyond

Operational Carbon Neutrality (Scope 1 & 2)

Baseline operational carbon emissions (estimated): 3 million tons
Green electricity application ratio: 100%
Actual operational carbon emissions: 0

We will optimize energy management of individual data center buildings, build a green operations and maintenance process, upgrade the intelligent energy and carbon management system, conduct green electricity transactions, and manage the full life cycle of equipment and facilities. These efforts will ensure the efficient achievement of our own net-zero goals, while also reshaping the digital & energy industry landscape and promoting the leap in ecological value.

[1]Baseline operational carbon emissions refer to the carbon emissions generated in the final year of the phase.

[2]Actual operational carbon emissions refer to the actual carbon emissions after offsetting the equivalent carbon emissions through measures such as purchasing green electricity/green electricity certificates.

Climate Risk Management

We follow the TCFD framework recommendations to integrate climate change response into our ESG management system, continuously establishing and improving the management processes for climate risks and opportunities. Meanwhile, the company, in line with its actual situation, defines the short term as 3 years, the medium term as 4-5 years, and the long term as 5-10 years, and conducts analyses of impacts, risks, and opportunities for direct operations, upstream value chain, and downstream value chain based on these timeframes.

After analyzing the overall environmental dependencies, impacts, risks, and opportunities, we have developed a comprehensive climate action strategy. This strategy addresses climate change by focusing on reducing carbon emissions in our own operations and throughout the supply chain.

Climate Risk and Opportunity Identification and Management Process

- We conduct climate-related risk identification by researching climate change trends both domestically and internationally, benchmarking against industry development, and collecting stakeholder feedback, all in conjunction with our own operational circumstances.
- We conduct a comprehensive assessment of the impact of climate risks on Hoyinn from both qualitative and quantitative perspectives.
- We develop corresponding response measures for the identified climate change risks and regularly evaluate the effectiveness of these measures.
- We regularly disclose the progress of risk management work to stakeholders by promoting the reporting of climate change risk management.

Metrics and Targets

We actively respond to the national Dual Carbon Goals and have developed a phased carbon reduction roadmap. In line with our sustainable development plan, we will achieve carbon peak and carbon neutrality targets in our operations in a step-by-step manner: we plan to reach carbon peak for Scope 1 and Scope 2 emissions between 2025 and 2026, and then advance to a full-scope carbon peak, including Scope 3. We are also committed to achieving carbon neutrality for Scope 1 and Scope 2 in our operations by 2030 and beyond.

Metrics	2025-2026	2027-2028	2030-beyond
Peak carbon emissions for Scope 1 and Scope 2 in operations	✓		
Peak carbon emissions for Scope 1, Scope 2, and Scope 3 in operations		✓	
Carbon neutrality for Scope 1 and Scope 2 in operations			✓

"3+1" Green Digital Infrastructure Development Strategy

In 2024, Hoyinn innovatively developed the "3+1" green digital infrastructure development strategy. The "3" includes: 1 concept: the "computing power, electricity, and carbon" coordinated development, 1 scenario: building a green computing power infrastructure for the artificial intelligence era, and 1 standard: the green computing power index standard for the entire life cycle of data centers. The "1" represents 1 goal: realize green value.

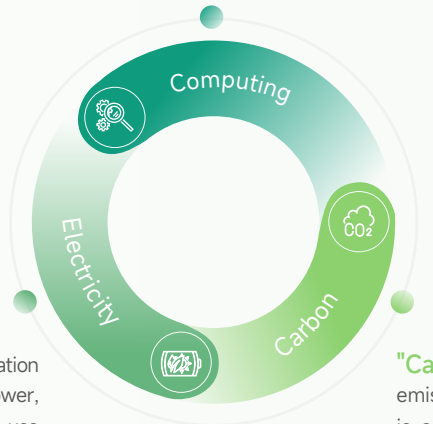
From concept advocacy to scenario implementation, and then to standard leadership, Hoyinn has comprehensively implemented the "green digital infrastructure" strategy through systematic practices. This initiative not only sets a benchmark for a sustainable business model in the data center industry but also successfully opens up green financial channels, injecting a quantifiable and replicable green value engine into high-quality industrial development.

1 Concept: Integrated Development of Computing Power, Electricity, and Carbon

Under the sweeping tide of digitalization and the guidance of the Dual Carbon Goals, the coordinated development of "computing power, electricity, and carbon" has become an important engine for reshaping the digital infrastructure and green energy industry landscape and promoting the leap in ecological value. There is a mutually constraining and mutually beneficial relationship between computing power, electricity, and carbon emissions. On the one hand, high computing power often means high energy consumption, which in turn may lead to potential high carbon emissions. On the other hand, the coordinated layout and use of computing power and electricity, along with increased use of new energy sources, can be supported by green electricity to enable low-carbon development of computing power. The synergetic development of "computing power, electricity, and carbon" is not only an inevitable choice for the data center industry to address energy challenges and environmental pressures but also an important measure to achieve sustainable development and promote the green transformation of the economy and society. Through the deep integration and synergetic progress of these three elements, new development momentum can be injected into the industry, creating a green, efficient, and low-carbon future.

However, the path to the synergetic development of "computing power, electricity, and carbon" is not smooth and still faces many challenges. We will explore the optimal path through more practical actions to support the sustainable development of the industry.

"Computing" represents computing power, which is the core productive force in the digital economy era, providing strong support for the vigorous development of emerging technologies such as artificial intelligence and big data.



"Electricity" is the energy foundation for the operation of computing power, and the stable supply and efficient use of electricity are key to ensuring the continuous output of computing power.

"Carbon" focuses on carbon emission management, which is an important indicator for measuring the level of green development in the industry.

1 Scenario: Building a Green Computing Infrastructure for the Artificial Intelligence Era

In 2024, with the rapid development of artificial intelligence technology, data center infrastructure faces new challenges in energy efficiency and sustainable development requirements. Hoyinn innovatively introduced the AIDC (Artificial Intelligence Data Center) infrastructure solution, combining the concept of full life cycle management of green computing power to build a new generation of computing power infrastructure that integrates efficient deployment, low-carbon operation, and intelligent management, providing a reliable guarantee for sustainable development in the AI era.

AIDC Infrastructure Solution

In 2024, to meet the explosive demand for AI computing power in the era, Hoyinn completed a comprehensive renewal of the new generation of intelligent computing data center architecture. We achieved breakthrough upgrades in spatial design, facility energy efficiency, and software management. By utilizing new energy, centralized layout, high-performance networking, efficient cooling, low-loss power, and prefabricated delivery capabilities, we can meet the growing needs of customers for AI computing power. The highly reliable power supply system and dual-path water supply facilities ensure the stability and continuity of data center output, and the sustainably expandable campus planning provides a solid guarantee for long-term development.

In the future, we will continue to invest in research and development efforts, targeting the characteristics and needs of AI operations. Through intelligent means, we will continuously evolve through intelligent means to contribute to the development of new productive forces in the AI era.

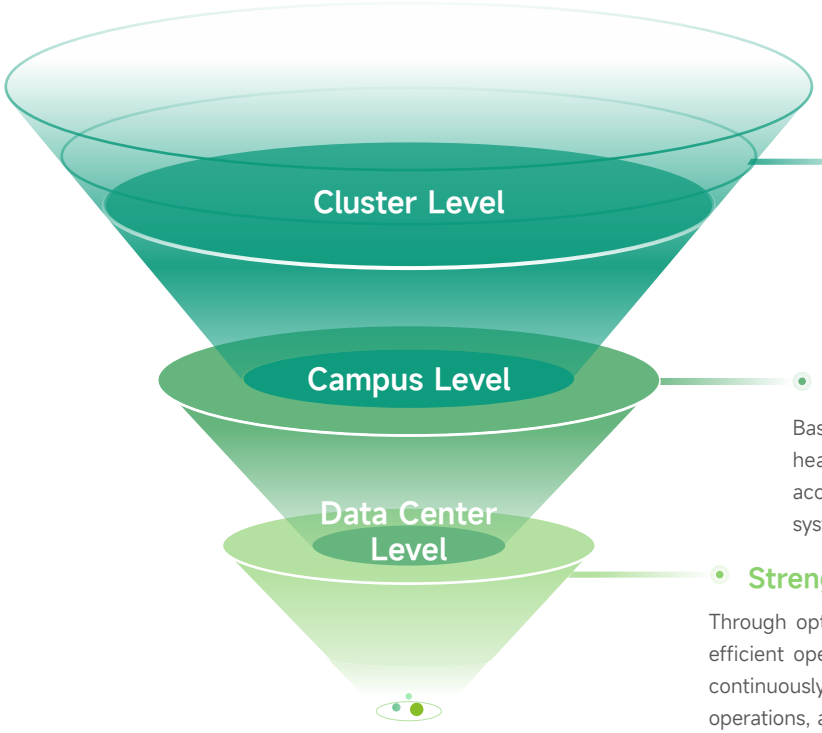
Successful Implementation of Hoyinn's AIDC Infrastructure Solution Case

In 2024, we refreshed the industry delivery record with the "Hoyinn Speed" through the rapidly iterating AIDC architecture. The AI computing power infrastructure projects ND14, ND22, and ND23, totaling 152MW, were all delivered with high quality within 260 days. In the AI wave, this efficient delivery model significantly improved the deployment efficiency of customer businesses, supported technological progress, drove the upgrade of computing power, and led the high-quality development of the industry.

AI Computing Power Characteristics	Large Clusters	High Power + Uninterrupted	Rapid Iteration
AI Computing Power Demand	High-Performance Networking Adequate Energy Supply Continuous Expansion	High Availability of Efficient Power Supply and Cooling	Highly Elastic and Continuously Evolving
Key Elements of AI Computing Power Infrastructure Capability	**Sustainable Development** Hyperscale Campus Optimized Spatial Layout Utilization of New Energy Full Life Cycle Green Management Comprehensive ESG Compliance	**High-efficiency** Integrated Power Supply Solution Liquid Cooling Solution Optimal Energy Use Efficiency	**Reliable** Design SLA 99.9995% Specialized, Systematized, and Intelligent Operations and Maintenance	**High Compatibility** Prefabricated and Productized Civil Construction Compatible Design Unified Air and Liquid Cooling, Compatible AC/DC Compatible

Promoting the Construction of a New Energy System

With the growing global consensus on addressing climate change, green computing power has become a new type of productive force driving the development of the digital economy. In 2024, Hoyinn deeply implemented the "green digital infrastructure" development strategy and innovatively proposed the concept of a full life cycle green computing power body. This concept runs through the entire process of data center design planning, site selection and construction, construction implementation, and operation and maintenance. It aims to build a new energy system for data center campuses through three core measures.



Optimize the Main Energy Structure

Explore the interlock between large-scale new energy power generation such as wind power and photovoltaics, energy storage, and data center electricity use. Through the construction and application of a new type of power system, help cluster-level data centers increase the proportion of green electricity use and reduce carbon emissions at the source.

Build an Integrated Energy System

Based on the principles of "reducing, reusing, and recycling," plan distributed photovoltaics, waste heat utilization, rainwater recycling, carbon and energy management in entire life cycle, etc., according to the construction and layout of the campus. Build a sustainable integrated energy system to achieve green and integrated development.

Strengthen Green Management Throughout the Full Life Cycle

Through optimal site selection, zero-carbon design, green building, innovative technology, rapid delivery, efficient operations and maintenance, promoting green office practices and culture, and other measures, continuously improve the resource utilization efficiency of data centers, reduce carbon emissions during operations, and strengthen green management throughout the full life cycle.

Optimizing the Main Energy Structure

Greening the main energy structure is an important measure to build a green computing infrastructure for the artificial intelligence era and a necessary means to achieve Scope 2 carbon neutrality for data centers at the source. In the design and site selection stages, we focus on green planning of the main energy structure of data centers. By collaborating with the industrial ecosystem, we create an integrated "Generation-Grid-Load-Storage" technical solution to ensure green energy support for data centers.

One of the First Batch of National Excellent Cases of Computing and Electricity Synergy - The Largest Generation-Grid-Load-Storage Integrated Carbon Neutrality Demonstration Project in the Beijing-Tianjin-Hebei Region

Case

We collaborated with our sister company, Heengy, to pioneer the "Generation-Grid-Load-Storage" integrated carbon neutrality demonstration project in Zhangjiakou. This demonstration project relies on innovative technologies and business models to achieve deep coordination between "generation, grid, load, and storage." In 2024, the project was included in the first batch of national excellent cases of computing and electricity synergy.

Since the construction of the data center cluster in Huailai County, Zhangjiakou, began in 2020, Heengy has simultaneously laid out new energy power generation projects in places such as Yu County, Guyuan, and Zhangbei in Zhangjiakou. By 2024, the data center load side had a built capacity of about 500MW, and the new energy power generation side had successfully connected 2.24GW of wind and solar projects to the grid.

Generation	Heengy has planned and constructed 13 new energy power generation projects with a total installed capacity of 5.53GW, adding 13 billion kWh of electricity generation per year.
Grid	Relying on the highly reliable national power grid, the project has been planned in batches and connected through access schemes to ensure the consumption of green electricity and its transmission to the Zhangnan area, with 515km of external transmission lines and 15 booster substations.
Load	The Huailai computing power cluster is planned with a load of 1GW.
Storage	To improve the consumption rate of new energy power generation, the supporting energy storage system was launched in 2024.

In the future, the electricity matching degree between the power generation and consumption sides will continue to improve. Through the electricity market-oriented trading mechanism,both sides ultimately achieve the commercial implementation of "Generation-Grid-Load-Storage" synergetic development.

Integrated Energy System Construction in Campus Level

Data centers consume a large amount of natural resources such as electricity and water during the operation phase. To implement the "green digital infrastructure" development strategy and reduce environmental impact, Hoyinn has adopted measures such as distributed photovoltaics and waste heat utilization to build an integrated energy system. In addition, to improve the energy-saving and carbon-reduction efficiency of the campus, we have developed an energy and carbon management system to empower the campus's integrated energy management through intelligent means.

Distributed Photovoltaics

To efficiently utilize the campus space resources and enhance the effectiveness of green and low-carbon management, a distributed photovoltaic power generation system was planned and constructed in synchronization with the campus at the beginning of its development, providing clean electricity for data centers.

Waste Heat Utilization

To thoroughly implement the green development concept and improve resource utilization efficiency, in 2024, Hoyinn has invested in multiple waste heat utilization facilities. By recycling the heat generated by data centers, we not only ensure our own operational development but also provide thermal energy to surrounding communities and facility agriculture, meeting demands such as heating and canteen heat supply. This helps the entire society reduce the use of electricity, coal, and other resources and lower carbon emission levels.

Waste Heat Recovery and Utilization in Chiller Plant Case

Hoyinn's ND19 has officially commenced operations. The site employs an efficient waste heat utilization solution, effectively recovering and utilizing the waste heat from chilled water. Calculations show that ND19's maximum annual waste heat supply capacity reaches 10MW, sufficient to meet the heating needs of 250,000 square meters of residential buildings. This initiative saves 11.06 million kWh of electricity annually and reduces carbon dioxide emissions by 7,494 tons.

Using Plate Heat Exchangers to Replace High-Quality Heat Sources Case

In 2024, to reduce the energy consumption of diesel generator in winter, ND18 adopted plate heat exchangers to recover waste heat from the liquid cooling system and utilize it in the cylinder jacket cooling system of diesel generators, thereby improving winter start-up performance. For two diesel generator buildings, a total of 4,100 GJ of heat can be recovered annually, saving 1.1 million kWh of electricity and reducing carbon dioxide emissions by 745 tons.

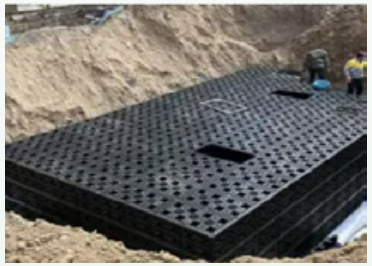
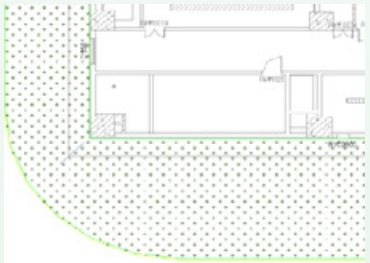
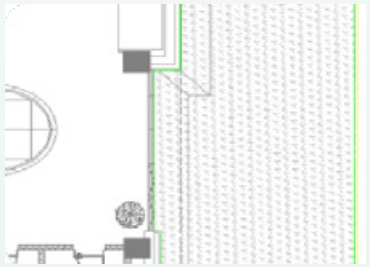
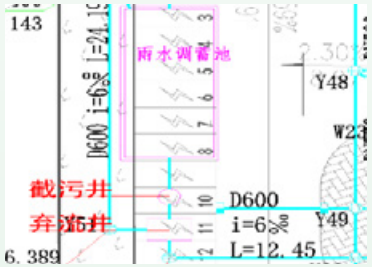
Rainwater Recycling

To further improve the environmental impact on surrounding water resources in the data center campus, Hoyinn has deployed facilities for rainwater collection, treatment, and reuse in some projects in the Huailai area. Each site's corresponding facilities can effectively reuse 100 cubic meters of rainwater, which, after treatment, can be used for local campus landscaping, road washing, and other miscellaneous domestic uses. It is estimated that nearly 7,100 tons of water can be saved annually.

Measures Adopted by Hoyinn (Huailai) Technology Industrial Campus

Sunken Green Spaces | Permeable Paving - Grass-Planting Bricks | Rainwater Detention Ponds



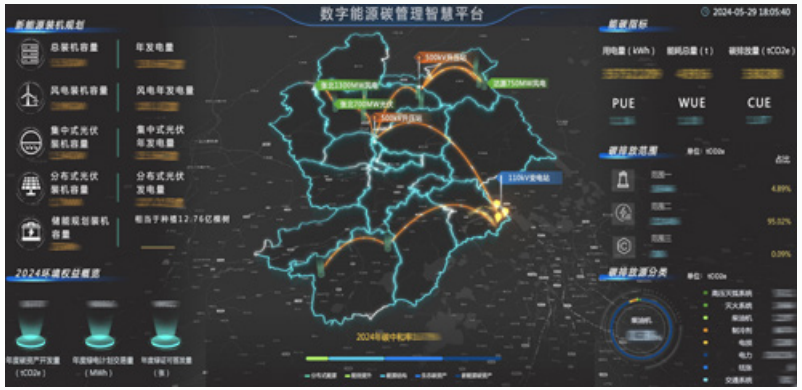





Energy and Carbon Management System

Hoyinn has deeply integrated the concept of green and low-carbon into the operation and management system of the data center campus. By building a refined energy management model and an online carbon emission monitoring system, we achieve real-time visual analysis and dynamic optimization of energy consumption and carbon emission data, significantly improving the efficiency of energy saving and emission reduction.

Energy and Carbon (Version 1.0) System — Case

In 2024, to achieve green management throughout the entire life cycle of data centers, Hoyinn developed the Energy and Carbon 1.0 Management System. By comprehensively collecting energy use and carbon emission data from data centers and integrating relevant management measures, the system can provide all-round, real-time monitoring and management of the daily operations of the data center campus, thereby achieving green management throughout the entire life cycle.



Green Management in Data Center Level

Hoyinn integrates the concept of green throughout the entire life cycle management of data centers. In the planning and site selection stage, in addition to infrastructure such as power supply systems, we also focus on the abundance of natural resources like wind and solar energy. In the design stage, we fully consider building performance and spatial layout, prioritizing the use of natural cooling sources and daylighting conditions. During construction, we select environmentally friendly building materials and implement refined construction management to reduce resource waste. In the operation and maintenance stage, we establish a comprehensive energy monitoring system and continuously optimize equipment operating efficiency through standardized operating procedures. This systematic management approach ensures the best energy-saving effects in all links from planning and design to daily operations.

Optimal Site Selection

Under the guidance of the "East Data, West Computing" policy, Hoyinn has further clarified the optimal site selection strategy for new green computing power clusters. That is, focusing on the national hub nodes of the integrated national computing power network, we prioritize "energy" and deploy high-quality computing power infrastructure clusters in areas with abundant renewable energy such as wind and solar, complete power grid facilities, and sufficient land resources, exploring a development path for stable and efficient real-time matching of green energy and computing power.

Zero-Carbon Design

In the design stage, Hoyinn adheres to the "green first" concept, integrating sustainable development throughout the entire process of cooling solution design, energy saving management, and building design. In the cooling solution, we innovatively adopt an efficient hybrid cooling system based on natural cooling sources, achieving on-demand cooling through intelligent control. The power system uses modular integrated design to achieve efficient energy conversion and utilization. The building itself follows green construction standards, optimizing resource utilization efficiency from material selection to spatial layout. This holistic green design strategy not only ensures that data centers maintain low-carbon and environmentally friendly characteristics throughout their life cycle but also sets a new benchmark for green infrastructure in the industry through systematic energy-saving and emission-reduction solutions.

Innovative Technology

- **Architecture Upgrade:** In 2024, to quickly meet the technical requirements of AIDC, shorten the construction period, and reduce construction costs, Hoyinn comprehensively upgraded the data center architecture, transforming the 2.0 architecture with multi-story building forms into the 3.0 architecture with two large flat floors. Compared to the previous version, the 3.0 architecture reduces the building area by 50% and shortens the civil construction period by 40%. By placing AHU units on the roof, we improved the energy efficiency of the AHU unit's air system and reduced PUE. We also optimized the floor plan to reduce cable usage by 10%. Several new data centers with this upgraded architecture have received high recognition from customers.

- **Cooling:** Based on the concept of "nature first, on-demand cooling," Hoyinn continuously optimizes cooling technology solutions through joint R&D with customers and increased investment in technological innovation, maximizing energy efficiency while ensuring stable equipment operation.

New Liquid Cooling Experimental Data Center, Exploring Innovative Technologies

Case

In 2024, Hoyinn collaborated with customers to design and build a cold plate liquid cooling experimental data center. This data center was custom-designed to meet the needs of exploring various future business and technical routes for the customers, enabling the testing and validation of multiple new technologies, including low-temperature cooling liquid cooling systems, water quality bypass purification technology, new types of secondary-side piping materials, waste heat recovery technology for liquid cooling systems, new types of liquid cooling CDUs, and new types of liquid cooling servers.

High-Power-Density Liquid Cooling Solution

Case

In 2024, Hoyinn deployed the most advanced 10,000-GPU cluster computing power center in China and developed a high-power-density liquid cooling data center solution with a single-machine rack power of over 50kW. The cooling system uses an open cooling tower + plate heat exchanger, and a low-approach design achieves year-round natural cooling. The data center's annual PUE is as low as 1.15.

Innovative Development of Humidifiers

Case

In 2024, to optimize PUE to the greatest extent, Hoyinn developed a humidifier mode switching mechanism and a remote condenser humidifier solution. On one hand, the system switches the air routing based on dehumidification/humidification operation modes to enhance the air processing capability of the humidifier (dehumidification capacity can be increased by 33%, and humidification capacity by 29%). On the other hand, by placing the humidifier's condenser outside the IT room, it reduces the cooling load formed inside the room during dehumidification mode, lowering the energy consumption of the cooling system. The campus can save approximately 4.543 million kWh of electricity annually. The humidifier mode switching mechanism has obtained a utility model patent authorization, and the remote condenser humidifier has filed a patent application.

Innovative Anti-freezing Technology for AHU Water Systems

Case

In 2024, Hoyinn collaborated with customers to research anti-freezing technology for the spray system of indirect evaporative cooling units. By adding technical means such as electric valves on the inlet pipes, submersible pumps, temperature sensors, and water tank agitation pipes, the system reduces the repeated draining and refilling of the spray water pool during large diurnal temperature variations. The campus can save approximately 41,000 tons of water annually.

Innovative Anti-freezing Technology for AHU

Case

In 2024, Hoyinn and customers conducted a joint research on anti-freezing solutions for indirect evaporative cooling units. On one hand, the start-stop and frequency control logic of the outdoor fans were optimized to reduce air volume. On the other hand, a bypass duct for outdoor exhaust was installed. When the outdoor temperature falls below a set limit, a portion of the warm air is bypassed to increase the inlet air temperature on the outdoor side of the heat exchanger core, preventing the outdoor fresh air temperature from being too low. The combined application of these two technologies achieves anti-freezing, preventing the indoor air of the AHU unit from falling below the dew point temperature in winter and reducing the condensation of moisture within the AHU unit. This results in an annual reduction of humidification by 350 kg.

Air-Cooled Refrigerant Pump Integrated Unit

Case

To address water scarcity in North China, Hoyinn developed an integrated air-cooled refrigerant pump unit. This unit integrates the compressor, evaporator, condenser, refrigerant pump, and refrigerant piping accessories into a single device, which is installed on top of or beside the IT room and connected to it via air ducts. The device can flexibly switch between natural cooling, pre-cooling, and mechanical refrigeration modes based on outdoor temperature. It has **zero** annual water consumption and a CLF as low as **0.11**. This solution achieves "zero" water consumption for the cooling system, reduces water resource use, and addresses long-term efficiency decline, air leakage, and water treatment issues of the heat exchanger core.

- **Power Supply:** To enhance the energy efficiency of data centers and improve the reliability of electrical systems, Hoyinn innovatively developed an integrated power module solution. This solution achieves energy-saving optimization through highly integrated system design and intelligent operation and management.

Integrated Power Module

Case

The solution adopts a modular and prefabricated approach, integrating and optimizing traditional dispersed components such as low-voltage distribution cabinets, UPS, incoming and outgoing cables, and cable routing compartments. These components are prefabricated in the factory. This not only shortens the construction period of the power transformation and distribution equipment (each set of equipment can reduce the construction period by 20 days) but also ensures the quality of the assembled equipment and enables productized management for convenient equipment operation and maintenance. Currently, this technology has been applied in the Huailai project with a capacity of **570,000** kVA.

Green Delivery

Hoyinn actively implements the concept of green construction in engineering projects. We innovatively adopt technical solutions of prefabricated buildings and productized mechanical and electrical engineering. This not only shortens the project cycle and reduces construction costs but also achieves energy saving and emission reduction.

Integrated Mechanical and Electrical Green Construction Solution

Case

In practical applications, Hoyinn's integrated mechanical and electrical green construction solution not only improves engineering efficiency but also lays the foundation for energy saving and consumption reduction in the subsequent operation phase of data centers by optimizing the power supply chain and space utilization. Over the past three years, this green construction technology has been successfully applied to projects with an IT capacity of 590MW, driving the continuous upgrade of the company's technical architecture and demonstrating the practical value of green construction concepts in the field of engineering construction.

In addition, to address environmental protection issues during the construction period, Hoyinn has established a full life cycle management model before, during, and after construction:

Before Construction

In the project planning stage, fully consider surrounding environmental factors, reasonably layout the construction site to minimize damage to the surrounding natural environment, develop detailed environmental protection plans, clarify dust control and noise pollution prevention measures, and provide environmental awareness training for construction personnel to enhance their attention and consciousness towards environmental protection work.

During Construction

Cover exposed soil and material stockpiles on the construction site with filter nets, regularly arrange sprinkler trucks to moisten construction roads and working areas to reduce dust, keep the ground wet, and minimize dust generation; equip with cleaning equipment to promptly clean roads and sites, ensuring site tidiness; install vehicle washing facilities at entrances and exits to clean vehicles entering and leaving, preventing mud from polluting surrounding roads.

After Completion

Conduct a comprehensive cleanup and restoration of the construction site, dismantle temporary facilities. After handover, it will be transferred to the operations and maintenance team for daily hygiene maintenance.

Efficient Operations and Maintenance

As a responsible data center operator, Hoyinn deeply understands that efficient, reliable, and sustainable operations and maintenance management is not only the cornerstone of stable business operations but also the core guarantee for driving the company's high-quality development. In 2024, we deepened the application of the Data Center Infrastructure Management (DCIM) system and strategically planned and phased the deployment of the Digital Operations Management Platform (HOC) to implement the "green digital infrastructure" development strategy in practice.

DCIM: The Solid Foundation for Efficient and Green Operations and Maintenance

The DCIM system deeply integrates data resources, significantly enhancing maintenance efficiency and the reliability and sustainability of data centers through real-time management and intelligent analysis.

- Information Visibility: The DCIM solution provides real-time monitoring of core parameters such as power and cooling across the entire domain, enabling timely and accurate grasp of operational data and information, improving availability, and practicing sustainable development.
- Risk Early Warning and High Availability Assurance: Relying on comprehensive monitoring and intelligent analysis engines, DCIM achieves early identification of potential failures and proactive early warnings, ensuring the high availability of facilities and reducing environmental impacts caused by downtime or failures.

HOC: The Strategic Engine of Intelligent Operations and Maintenance

To break down information silos and drive a dual leap in future operational efficiency and service quality, Hoyinn has positioned the HOC (Digital Operations Management Platform) as a core strategic project and has initiated its value exploration and practice.

This platform integrates artificial intelligence, big data analysis, and automation technology to build a unified monitoring and management platform for infrastructure, achieving a comprehensive intelligent upgrade of maintenance management. It empowers precise control and decision optimization of complex operating environments. At the same time, the system combines low-carbon management strategies to achieve digital supervision of carbon footprints. It optimizes resource allocation in the planning stage, reduces energy waste in the operation stage, and realizes efficient resource recycling in the decommissioning stage, helping to reduce carbon emissions in the campus. In addition, through in-depth analysis of operational data, the system can also provide a scientific basis for the low-carbon design, green construction, and optimization of other AI infrastructure, improving resource utilization efficiency.

- In 2024, we successfully launched the basic version of the platform and completed capability verification. By connecting the data of the first building and unblocking the data chain, we laid the foundation for the integration of data across the entire domain.
- The five core management interfaces at the campus level have been initially built and showcased, providing a basic framework for future functional expansion and scenario deepening.

In the future, we will steadily build a new generation of intelligent operation platforms with DCIM as the foundation and HOC as the intelligent engine, continuously enhancing the sustainable operation capabilities of data centers, and creating quantifiable, multi-dimensional long-term value for shareholders, customers, employees, and society.

Green Office and Culture

Although administrative office is not a key link in which Hoyinn affects the environment, it is still a focus of environmental management work. We focus on the construction of environmental protection concepts, promote water and electricity saving through publicity, and arrange special personnel to check the closing of water and electricity in the office every day to eliminate daily resource waste. In addition, the company is gradually promoting paperless office and paying attention to the recycling of materials for cultural activities, practicing the concept of green environmental protection. In 2024, we held several environmental public welfare activities to convey the concept of green working to employees.

"Planting" Greenery, Embracing Spring

Case

In April 2024, to deeply implement the concept of green and low-carbon development, Hoyinn organized a tree-planting activity for employees in the Huailai campus. At the planting site, employees were highly enthusiastic, working together and carefully planting each sapling. Through their collective efforts, the saplings were neatly arranged and stood tall in the wind, promising to add more greenery to the campus. This tree-planting activity not only beautified the campus but also enhanced employees' awareness of ecological and environmental protection. Many expressed their commitment to actively practice green and environmental protection concepts in the future, contributing to the sustainable development of the company and society through their personal efforts.

Officially Establishing "Green Digital Infrastructure Eco-Day"

Case

On October 12, 2024, Hoyinn officially declared the establishment of "Green Digital Infrastructure Eco-Day." The first was themed "Keep 'Green' Moving, Recharge for a Better Sustainable Future." It adopted a variety of formats to actively carry out ecological civilization publicity activities. These included holding popular science lectures and experience-sharing sessions focusing on the two core issues of environmental protection and corporate culture, as well as organizing quiz competitions, environmental-themed group photos, DIY creative design and several parts.

1 Standard: The Green Computing Power Index Standard for the Entire Life Cycle of Data Centers

In June 2024, Hoyinn has jointly developed *the Whitepaper on the Green Computing Power Index for the Entire Life Cycle of Data Centers* with authoritative institutions such as the China Academy of Information and Communications Technology (CAICT) and Envision Technology Group. This standard constructs a comprehensive evaluation system covering three major dimensions: safe and efficient operations, green and low-carbon practices, and intelligent management. Through the quantitative assessment of 8 secondary indicators and 16 tertiary indicators, the standard provides a scientific and comprehensive guide for the green development of the data center industry. It strongly promotes the deep integration of computing power infrastructure and clean energy, facilitating the integration of the digital economy and the low-carbon economy. This innovative standard not only fills the industry gap but also provides a quantifiable and implementable path for the green transformation of data centers.

Green and Low-Carbon of Computing Power

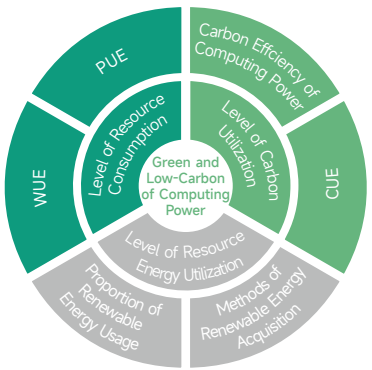
The standard emphasizes two indicators: "renewable energy acquisition methods and computing power carbon efficiency." It shifts the focus from energy consumption to carbon emissions. Based on computing power demand and power grid resource allocation capabilities, the standard coordinates the planning of power system construction. It promotes the use of multi-energy complementarity, generation-grid-load-storage solutions, and power trading mechanisms to enhance inter-provincial and inter-regional power surplus and deficit mutual assistance and spatiotemporal mutual assistance. This drives various energy storage systems to play a regulatory role.

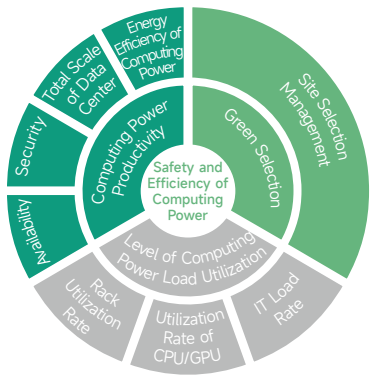
Safety and Efficiency of Computing Power

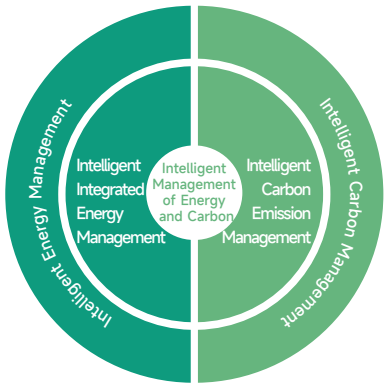
Hoyinn innovatively proposes four indicators: "computing power energy efficiency, availability level, GPU/CPU utilization rate, and site management." These indicators comprehensively consider the productivity of computing power, the utilization level of computing power, and the rational allocation of resources for the integration of computing and electricity. This will promote the development of AIDC towards higher density, prefabrication, and elasticity, meet the diverse power density requirements of intelligent computing centers, and lead the advancement of infrastructure construction and comprehensiveness of site selection.

Intelligent Management of Energy and Carbon

For the first time, the "intelligent carbon management" indicator is proposed by Hoyinn, encouraging data centers to fully utilize technologies such as artificial intelligence, big data, and digital twins, especially in the fields of electricity-carbon intensity coupling, carbon management, and quantification of green computing power index, to form a zero-carbon digital foundation. This foundation supports Internet of Things platforms, big data platforms, and application platforms.







Leading the Industry in Green Value

When everyone works together, even the heaviest load can be lifted with ease; when collective wisdom is applied, no task is insurmountable. Hoyinn adheres to the "Green Digital Infrastructure" development strategy, continuously explores innovative models of green and low-carbon development, and actively shares experience and achievements with industry partners, contributing more wisdom and strength to the sustainable development of the data center industry. The implementation of the green computing power index not only helps enterprises accurately grasp the path of carbon reduction, but also successfully builds a bridge between data centers and green finance. Through innovative tools such as sustainability-linked loans, it reduces the cost of corporate transformation and helps the industry jointly create a new pattern of efficient and low-carbon digital economy.

Release of the White Paper on the Green Computing Power Index for the Entire Life Cycle of Data Centers

Case

Under the guidance of the Hebei Provincial Data and Government Services Bureau and the People's Government of Zhangjiakou, Hoyinn, in collaboration with national think tanks, financial institutions, computing power providers, energy companies, and certification bodies, hosted the "Resonance of Digital and Energy, Green Computing Leading the Way" forum on the green computing power index for the entire life cycle of data centers in Beijing on June 28, 2024. The forum gathered approximately 150 participants from government, industry, academia, research, and application sectors.

At the forum, under the guidance of the Hebei Provincial Data and Government Services Bureau, the Hebei Provincial Development and Reform Commission, the Hebei Provincial Energy Bureau, and the People's Government of Zhangjiakou, the China Academy of Information and Communications Technology, Envision Technology Group, and Hoyinn, together with numerous partners from the digital and new energy industries and financial institutions, jointly released *the Whitepaper on the Green Computing Power Index for the Entire Life Cycle of Data Centers*. The index aims to promote green and low-carbon development in the computing power industry and provides a comprehensive evaluation standard for new-type green computing power complexes.

The first national green computing power index sustainability-linked loan for data centers has been granted to Hoyinn

Case

In August 2024, the under-construction data center project within the Zhangjiakou Huailai Big Data Industry Base of Hoyinn obtained a green computing power index sustainability-linked loan for data centers from the Beijing Branch of Shanghai Pudong Development Bank. This is the first such loan in China. This loan project is also a sub-project of the largest "Generation-Grid-Load-Storage" integration carbon neutrality demonstration project in the Beijing-Tianjin-Hebei region, which is used to meet the demand for hot data processing in the Beijing-Tianjin-Hebei region. The end users are all leading Internet companies. The loan plan is formulated in combination with the green computing power index, which will effectively reduce the cost of enterprise transformation and support the green and low-carbon development of data centers. Hoyinn integrates the concept of green into the design, construction and operation of data centers, and continuously optimizes the full life cycle management of data centers through technological and model innovation, improving energy efficiency and reducing carbon emissions. This loan project also fully proves that the green base color of Hoyinn's Data Center project has been highly recognized by the capital market. It has also created a new way of green financing for the industry and contributed to the green transformation of the industry.

Continuous Evolution

Customer-Centric and Win by Innovation

Hyperscale intelligent computing clusters serve as the core engine for AI development in the intelligent era. They not only focus on computing power upgrading, but also will drive energy efficiency optimization and ecosystem restructuring, reshaping the future development landscape across industries. Hoyinn remains committed to a customer-centric approach, continuously evolving to actively address client needs, enhance service capabilities, and strengthen innovation investments. We are dedicated to providing end-to-end solutions and fostering global technological collaboration to achieve sustainable development.

Our Goals

- Zero major failures annually
- Zero major information security incidents
- Establishment of a certified national-level information security standard system
- Achievement of high customer satisfaction ratings

2024 Progress

- SLA 99.9995%
- Completed the MIIT Intelligent Trust System security evaluation and obtained the Level 3 Cybersecurity Classification Protection certification
- Achieve the stable operation of the business.
- Received high praise from customers across technology, delivery, and operational support, along with the "Best Delivery Award"

Self-Evolution and Growing Together with Customers

Amid the current digital transformation, artificial intelligence technology is advancing at an unprecedented pace, driving explosive growth in computational power demand for large-scale model training and inference. In response to this technological shift, Hoyinn has proactively positioned itself with strategic foresight, achieving breakthroughs not only in technological innovation but also in operational management and service delivery-consistently exceeding customer expectations. Furthermore, we emphasize close communication with clients to better understand their evolving needs and anticipate future market trends. In 2024, we partnered with customers to establish a joint technology innovation lab, validating the feasibility of integrated liquid cooling solutions and actively exploring pathways for optimization. This effort not only addresses client requirements but also enhances our own technological capabilities, enabling mutual growth.

Moving forward, Hoyinn will continue to align with technological advancements, constantly refining and upgrading our solutions to provide a sustainable green computing foundation for the AI industry.

Continuous Improvement of Customer Service Capabilities

Guided by our core customer-centric philosophy, Hoyinn places customer satisfaction at the heart of our operations. By integrating resources across the value chain and expanding our value-added service offerings, we strive to deliver differentiated, intelligent, and integrated solutions to premium clients-securing their continued recognition and long-term trust.

High Resilience and High Reliability Systems

Hoyinn has always regarded the construction of highly resilient and reliable data center systems as a strategic cornerstone of our corporate development. Through forward-looking top-level design and systematic security architecture, we build a solid and dependable infrastructure foundation to support the stable operation of client's businesses.

Power Security

Our facilities are located in regions with robust power distribution networks, complemented by ultra-high availability power supply architectures to ensure electrical safety. By collaborating with industry ecosystems, we integrate renewable energy generation and energy storage solutions to increase the proportion of green electricity used in our data centers.

Network Security

Our locations are situated at key backbone network hubs, adjacent to dedicated international internet data channels, enabling us to meet global data processing demands. Proximity to network access points of the three major telecom operators allows fiber optic cables to be laid from at least three directions, ensuring efficient connectivity. Data center operations and office networks are strictly segregated, fulfilling high-level information protection requirements.

Physical Security

Within our data center clusters, independent units are designed to meet specific client needs through physical separation measures, ensuring enclosed and self-contained spaces. Guided by the principle of "least privilege," multi-level access control systems are implemented to guarantee privacy protection and security across all areas.

Key Performance

In 2024

Hoyinn achieved **zero major failures**

and maintained an **SLA 99.9995%**,

demonstrating exceptional operational excellence.

Infrastructure Security Framework

- 2024.03.09 Hyper-converged server upgrades
- 2024.03.18 Network port filing
- 2024.06.05 Workspace bandwidth expansion
- 2024.07.30 Development and acquisition system enhancements
- 2024.08.17 NAS storage capacity expansion
- 2024.09.12 Workplace firewall deployment
- 2024.9.28 Business continuity drills
- 2024.12.02 Interconnected antivirus software across data centers

Efficient Response to Customer Needs

High-Efficiency Service

Hoyinn has established a systematic and standardized project handover and maintenance management system. Through comprehensive end-to-end oversight, we precisely identify and address real-time customer requirements while ensuring service delivery quality. We have developed a detailed master handover control plan that covers the entire lifecycle from initial technical documentation review to final operational maintenance transition. This creates a standardized control process across all critical milestones, ensuring consistent high-quality and efficient operational support throughout the engagement.

During the project handover phase, Hoyinn forms cross-functional specialized teams to ensure technical standards align perfectly with customer needs through fundamental activities including equipment inventory verification, service contract compliance checks, and maintenance documentation preparation.

For customized requirements, we implement a dedicated communication protocol. Key phases-including factory acceptance testing, installation verification, and system validation-undergo dual verification processes. All identified issues are tracked and resolved in real-time through digital documentation systems. The training curriculum covers essential areas including safety procedures, emergency response protocols, and customer SLA requirements. Both theoretical instruction and practical evaluations ensure team competency.

At the project acceptance stage, Hoyinn rigorously implements three-tier documentation verification and integrated system testing to guarantee infrastructure parameters and operational processes fully comply with customer specifications.

Additionally, Hoyinn maintains a structured major event support framework. Prior to significant events, comprehensive risk assessments, drills covering six categories of emergency scenarios, and specialized training sessions are conducted to ensure rapid response readiness. During event execution, a three-level support team-consisting of regional operations directors, facility managers, and specialized engineers-maintains **24/7** shift coverage. For critical equipment, vendor technical support remains on-site throughout the event duration. The service response protocol establishes a four-tier emergency reporting system requiring operational staff to acknowledge alerts within **1** minute, arrive on-site within **5** minutes, restore basic services within **10** minutes, and provide detailed incident analysis reports. This ensures reliable data center operation during major events and specialrequirement periods.

Enhancing Communication with Customer

Hoyinn is committed to establishing enduring and stable collaborative relationships with clients through systematic communication management, continuously improving service quality and strengthening mutual trust. In 2024, we implemented a comprehensive multi-level customer demand response mechanism, ensuring timely and effective resolution of client feedback through institutionalized management systems and standardized processing procedures. Furthermore, Hoyinn established a three-tier response structure comprising customer interface representatives, satisfaction project teams, and senior management to implement categorized management for both routine feedback and major complaints.

For daily feedback management, the company created exclusive communication channels, ensuring all feedbacks are properly closed only after customer confirmation.

Regarding major complaint incidents, we developed strict emergency handling procedures: emergency meetings must be convened within 6 hours, reassurance letters must be issued within 12 hours, solutions must be formulated within 24 hours, and resolution commitment must be demonstrated within 72 hours through senior executive visits and customer follow-ups.

6

Upon escalation of major complaints impacting ongoing business operations, convene an emergency meeting within 6 hours to assess its severity,,assign an owner, and document the resolution.

12

Within 12 hours of receiving a complaint, a formal acknowledgment letter must be sent to the client to inform them that we have received their complaint and are actively working to resolve the issue.

24

Within 24 hours, convene an emergency meeting to address the complaint, develop solutions, and notify the relevant project leaders. An initial progress report must then be submitted within 48 hours.

72

Within 72 hours, draft and issue a formal response letter to the customer containing preliminary solutions. Simultaneously, dispatch a team of key personnel to conduct an immediate on-site visit. The team's objectives are to assess the customer's needs firsthand and provide all necessary support.

Key Performance

We have **not received** any major customer complaints.

In daily operations, we consistently prioritize all customer requirements and suggestions, providing timely feedback based on actual circumstances to ensure that customer voices are fully acknowledged and appropriately addressed.

Customer Satisfaction Management

Hoyinn has established a systematic, end-to-end customer satisfaction management system that ensures timely and effective handling of customer feedback through clear responsibility allocation, rapid response mechanisms, and continuous improvement cycles. We have formed a customer satisfaction project team directly led by the CEO, integrating resources from sales, technology, construction, operations, and other departments to create a cross-functional collaboration mechanism.

Additionally, we regularly identifie top customer satisfaction improvement priorities. The project team leads root cause analysis and develops improvement plans, continuously optimizing service processes to enhance customer experience. This comprehensive customer demand management system-covering daily feedback, emergency response, and long-term improvements demonstrates Hoyinn's strong commitment to customer rights and reflects its efficient operational management capabilities, laying a solid foundation for building long-term, stable customer relationships.

Enhancing Information and Data Security

Hoyinn has established a multi-dimensional security protection system through authoritative evaluations, regular drills, and systematic training, achieving ISO 27001 Information Security Management System certification. In practical security capability building, we conduct semi-annual simulated attack tests including phishing emails and social engineering calls covering all employees. By replicating high-frequency attack scenarios, these tests validate the effectiveness of defense mechanisms, and results are used to dynamically optimize emergency plans and access control strategies.

Simultaneously, we actively pursue national-level standard certifications, having completed the MIIT Intelligent Trust System security evaluation. This comprehensive assessment verifies system reliability across technical architecture, access control, and data encryption, laying the foundation for compliant business operations.

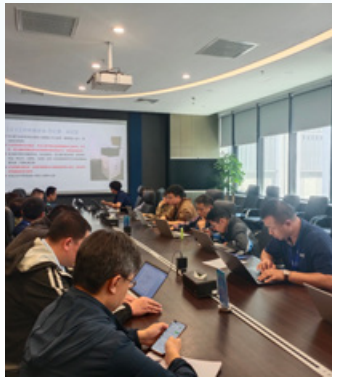
Obtained Level Three National Information Security Certification in China

Furthermore, Hoyinn continuously deepens information security awareness education. Monthly specialized training sessions are conducted in synchronization, covering core technical, operational, and management position. These initiatives significantly enhance the organization's ability to identify and respond to risks such as data breaches and cyber attacks.

Strengthening the Information Security Capabilities of Hoyinn's O&M Team

Case

In May 2024, Hoyinn's O&M Center organized a company-wide information security training session. Senior engineers systematically explained information security threats and protective measures using real-world cases, covering key areas such as human factors, technical vulnerabilities, and social engineering attacks (e.g., phishing emails, ransomware). Emphasis was placed on data center management, access control, and data confidentiality protocols. By analyzing actual incidents, participants gained a deeper understanding of the importance of secure operations, effectively strengthening their risk identification and emergency response capabilities. This training further solidified the company's foundational security practices, ensuring continuous optimization of data confidentiality, integrity, and availability within the operational framework, thereby providing robust support for stable business operations.



Key Performance

2024

Achieved **zero** major information security incidents, ensuring full protection of customer data integrity and confidentiality.

Enhancing Innovation Investment

Innovation in Team Management and Development

Hoyinn places high importance on the continuous improvement of technological R&D capabilities. By optimizing organizational structures, strengthening talent development pipelines, and refining incentive mechanisms, the company provides solid support for technological innovation.

Organizational Structure

The Technology Center serves as the core department for the company's research and innovation. It comprises Planning and Design divisions, which not only focus on infrastructure planning and design but also actively drive technological innovation initiatives.

Talent Development Mechanism

The company has established a technical talent development program that defines training objectives, methods, and content. By combining external recruitment and internal cultivation, a multi-level and multi-channel talent development system has been built. Additionally, we actively select outstanding employees to participate in industry technical seminars, forums, and other academic exchange activities, enhancing the innovation awareness and forward-looking perspective of the technical team.

Incentive Mechanism

We have implemented a technological innovation reward system that provides both material and spiritual incentives for R&D achievements resulting in significant economic benefits or technological breakthroughs. This effectively stimulates employees' enthusiasm for innovation.

Key Performance

2024

The company has a total of **288** R&D technical personnel accounting for **65.75%** of the total workforce.

Intellectual Property Management

In the continuous exploration of technological innovation directions within the data center field, Hoyinn emphasizes the timely transformation of innovative achievements. By refining intellectual property management systems, standardizing management processes, and improving the overall IP management framework, we comprehensively strengthen the protection of intellectual property, promotes the effective application of IP outcomes, and enhances both its core competitiveness and economic benefits in this domain.

In 2024, we revised and improved the *Intellectual Property Management System* and formulated the *Intellectual Property Work Plan*, further clarifying strategic directions and objectives.

As a result, Hoyinn has established an end-to-end intellectual property management system that spans the entire lifecycle of IP. This system covers key stages from idea generation, in-depth mining and value assessment, project application, review and approval, third-party expert support, application submission, documentation archiving, filing, to achievement reward declaration-forming a closed-loop management process that ensures timely and effective protection of the company's innovations. In 2024, the company has obtained a total of 7 patent grants in areas such as modular design of data centers, high-efficiency cooling systems, and energy and water conservation management. An additional 6 patents are under substantive examination, with technological content covering multiple critical aspects of green data center construction.

Key Performance

2024

- Obtained 7 patents
- 16 software copyrights
- 11 trademarks
- Submitted applications for an additional 6 patents to the patent office

Industry-Academia-Research Collaboration

Hoyinn actively promotes collaborative innovation with academic institutions, establishing a deep strategic partnership with Cangzhou Normal University to jointly explore development opportunities in cutting-edge fields such as energy storage technology. Through regular technical seminars, specialized workshops, and multi-level exchanges, both parties integrate the theoretical research strengths of the university with the engineering practical experience of the enterprise, effectively driving technological innovation and achievement transformation.

Concurrently, we give full play to our industry experience. technical backbones from the Design Department serve as off-campus tutors to participate in the joint training of students. Through project-based learning and internship guidance, it helps students master of core technical concepts and practical skills in the data center industry, and cultivates high-quality professionals for the industry. This cooperation model of in-depth integration of industry, education and research not only expands the vision of the enterprise's technological innovation, but also provides real industrial scenarios for talent training in colleges and universities, achieving a win-win situation of resource sharing and complementary advantages. It demonstrates Hoyinn's commitment to social responsibility in advancing industry technological progress and talent cultivation.

Hoyinn Deepens Collaboration with Cangzhou Normal University

Case

In May 2024, Hoyinn signed a strategic cooperation agreement with Cangzhou Normal University to jointly establish an internship and employment base, officially launching the industry-academia collaboration initiative. This partnership covers multiple aspects including joint educational programs, cooperative development of academic disciplines, shared laboratory facilities, innovative research projects, and internship training. The collaboration aims to closely integrate specialized theoretical education with industry frontier practices, cultivating high-quality talent with practical capabilities.

Well-being

Pursuing Mutual Growth of Employees and the Enterprise

Hoyinn consistently thinks highly of well-being, establishing a comprehensive talent training management system that covers rights protection, career development, health and safety, and welfare care. Through systematic employment risk prevention, fair promotion mechanisms, and diversified training programs, the company fosters a work environment characterized by justice, fairness, and transparency. Simultaneously, Hoyinn prioritizes the physical and mental well-being of its employees by implementing multi-layered safety protection mechanisms and enhancing team cohesion through various cultural activities, achieving a win-win between personal value and organizational development.

Our Goals

- 100% employee satisfaction
- 100% employee training coverage
- Zero major safety incidents

2024 Progress

- Employee satisfaction reached 98.5%
- Ensuring the protection of employees' occupational health and safety
- Accumulated training hours reached 21,606, achieving 100% coverage across all employees

Safeguarding Employee Rights

Hoyinn fully implements a "people-oriented" management philosophy, strictly adhering to domestic and international labor regulations. The company has established standardized processes in key areas such as labor contract management, equal employment, and the prohibition of forced labor, creating a fair, reliable, and growth-oriented work environment for employees.

Strengthening Employment Risk Assessment

Hoyinn upholds the baseline for protecting employee rights by establishing a systematic employment risk prevention system from three dimensions: institutional improvement, professional capacity building, and closed-loop risk management. This ensures the effective protection of employees' legitimate rights throughout the entire process of recruitment, selection, and hiring.

Institutional System Improvement

Regarding employment management, Hoyinn has developed a comprehensive institutional framework. Regular compliance reviews of employment documents and policies are conducted by internal and external professional legal teams to ensure alignment with the latest legal and regulatory requirements.

Professional Capacity Building

Hoyinn emphasizes resource support for the capacity building of human resources personnel. Through a layered training system, the management team regularly participates in specialized labor law training sessions, and external legal experts are invited to interpret typical cases.

Closed-Loop Risk Management

Hoyinn conducts annual comprehensive employment risk assessments, focusing on critical aspects such as labor contract signing and renewal. The company strictly enforces standardized processes, including "signing contracts on the day of onboarding" and "renewing contracts one month in advance," to prevent employment risks at the source. For common issues identified during assessments, Hoyinn promptly initiates policy revisions and specialized training, forming a closed-loop management mechanism of "assessment–rectification–improvement."

Key Performance

2024

Achieved a

100 %

labor contract signing rate for all employees.

Anti-Discrimination and Diversity Management

Hoyinn strictly adheres to the *Labor Law of the People's Republic of China*, actively implements the *Universal Declaration of Human Rights* by the United Nations, and upholds the International Labour Organization's *Declaration on Fundamental Principles and Rights at Work*. In all processes including recruitment, selection, evaluation, promotion, and development, Hoyinn upholds the principles of fairness, justice, and transparency, firmly prohibiting any form of employment discrimination based on ethnicity, gender, age, religion, or other factors. The company comprehensively safeguards employee labor rights and is committed to fostering a diverse, equitable, and inclusive workplace culture.

Hoyinn attracts a diverse range of talents through multiple channels such as recruitment websites, campus recruitment, employee referrals, and industry-academia collaboration talent development mechanisms. All job postings explicitly prohibit any discriminatory terms. During the selection process, the HRBP team participates throughout, assisting business interviewers in fully understanding candidates' diverse backgrounds and professional capabilities, while ensuring the entire process is fair, transparent, compliant, and effective.

Key Performance

2024

Hoyinn employs

10

individuals from ethnic minority groups.

Prohibition of Child Labor and Forced Labor

Hoyinn strictly prohibits the employment of child labor and forced labor, upholding these as a fundamental principle that all partners must adhere to. During the recruitment process, candidate information is rigorously verified at both the resume screening and interview stages, and those who do not meet requirements are respectfully declined.

Furthermore, Hoyinn safeguards the legitimate rights and interests of on-site supplier employees through a full-process management and control mechanisms. During the onboarding phase, the company establishes a rigorous evaluation system for construction units, assessing them across multiple dimensions including qualification reviews, labor management, and safety systems to ensure partners have a foundation for compliant employment. During construction, Hoyinn explicitly requires suppliers to sign legally valid labor contracts with employees and pay wages fully and on time. The company's middle-office department conducts regular inspections to monitor labor conditions, working hours, and other compliance aspects of supplier employees. For potential rights disputes, Hoyinn has established a dedicated complaint handling mechanism, implementing tiered disciplinary measures against suppliers found to violate rights-ranging from rectification within a time limit and financial penalties to termination of cooperation.

Employee Compensation and Incentives

Hoyinn fully respects the individual value of employees and is committed to synchronizing personal growth with corporate development through a diversified compensation structure and performance management mechanism.

Diversified Compensation Structure: Hoyinn adopts a composite model of "base salary + performance bonuses." Through a scientific, reasonable, fair, and transparent performance evaluation process, employee contributions are assessed and redistributed, ensuring employees share in the company's success.

Performance Management Mechanism: Hoyinn implements a performance appraisal system, conducting bi-annual employee evaluations. This closed-loop management process includes goal setting, review and adjustment, and result confirmation. To ensure fairness and transparency in the appraisal process, Hoyinn has established a performance appeal mechanism. Department managers are required to conduct one-on-one discussions with each employee regarding appraisal results, fully respecting reasonable feedback from every team member.

Employee Communication Channels

Hoyinn is committed to building an open, inclusive, and harmonious workplace culture by establishing diverse employee communication channels to ensure every team member's voice is fully heard and valued.

Regular Communication Channels	Employees can express their needs or suggestions through multiple avenues, including direct supervisors, HRBP representatives, or a dedicated complaint mailbox. For important matters, employees may directly submit them to relevant decision-making teams within Hoyinn.
Employee Satisfaction Surveys	Hoyinn regularly conducts employee satisfaction surveys, implementing a closed-loop management process from opinion collection to issue resolution, fully respecting the valuable opinions from every employee.
Hoyinn Communication Platform	Hoyinn has established an online public communication channel based on office communication platform, promptly releasing information such as the company major dicisions, activities and corporate culture to ensure internal information transparency and efficient communication.
Executive Lunch Sessions	Hoyinn organizes regularly rotating executive lunch sessions where employees can reserve slots in advance. These sessions provide equal and open dialogue opportunities for in-depth discussions with management on topics including corporate strategy, market trends, cultural development, and personal growth.

Supporting Employees' Growth and Development

Hoyinn adheres to the "Four Dos and Four Haves" talent development concept. "Do as Received", "Do as Promised", "Do as Thought", and "Do as Known" serve as employee behavior principles to enhance professional competence."

"Have Self-motivation", "Have Time Conscious", "Have Learning Capability", and "Have Empathy" are talent development requirements to help employees improve core competitiveness.

Employee Promotion Channels

Hoyinn is committed to achieving mutual growth for both the enterprise and its employees. Hoyinn has established a dual-track career development system combining "management + specialization," providing diversified career paths for employees.

Based on business characteristics, Hoyinn has set up specialized career sequences including technical, functional, and marketing tracks, which together with the management sequence form a complete job grade system. Hoyinn conducts fair, just, and transparent talent assessment activities annually. Through a promotion mechanism combining "open competition + nomination + comprehensive evaluation," the fairness and scientific rigor of talent selection are ensured. Management positions follow an open competition system, while professional sequences adopt a combination of department recommendation and employee self-recommendation. All candidates must pass comprehensive assessments including executive defense sessions and theoretical examinations, with final decisions made collectively by Hoyinn's executive team.

Furthermore, to ensure the fairness, scientific validity, and efficiency of talent assessment activities, Hoyinn regularly optimizes promotion management processes and enhances talent evaluation standards by inviting external experts and conducting internal review assessments.

Enhancing Talent Evaluation Standards

Case

In 2024, Hoyinn prioritized the development of talent standards as a key initiative in its talent development strategy, first piloting this effort in the O&M Center. With guidance from third-party experts, Hoyinn organized a core team to conduct a systematic analysis of the entire operations workflow, establishing scientific and quantifiable talent evaluation standards across dimensions including technical skills, professional knowledge, and comprehensive competencies. The establishment of these standards provides clear criteria for the selection, training, and assessment of operations talent, significantly enhancing the precision and standardization of talent management.

This pilot project represents a critical step in Hoyinn's broader effort to build a comprehensive talent development system. In the future, Hoyinn will gradually extend this model to all business areas, continuously improving organizational capabilities through standardized and professional talent management mechanisms, thereby providing solid talent support for the company's high-quality development.

Employee Training Mechanism

Hoyinn firmly believes that employees are its most valuable asset. To achieve sustainable development for both the enterprise and its employees, Hoyinn has established a scientific employee training system that fully considers employee needs. Hoyinn invests resources in people, finances and materials to support employees' personal capability enhancement and help them realize their individual value, focusing on areas such as training mechanism innovation, trainer development, flexible training formats, and customized training programs.

Training Mechanism Innovation

Hoyinn has implemented a dynamic research mechanism, regularly distributing questionnaires to gather employees' learning needs. This enables precise matching of training resources, with general courses open to all employees and specialized courses targeted to specific requirements.

Trainer Development

Hoyinn adopts an "internal trainers + external experts" model, where technical experts from various business centers serve as internal trainers. This approach, combined with high-quality resources from external professional institutions, ensures the cutting-edge relevance and practicality of course content.

Flexible Training Formats

By establishing an online learning platform, Hoyinn has created a comprehensive training system that integrates online and offline approaches, providing employees with rich and flexible learning resources. The online platform offers both required and elective courses covering general skills and professional fields, helping employees enhance job-specific professional skills. Offline training provides customized course support tailored to the needs of employees at different departments and levels.

Customized Training Programs:

Hoyinn is committed to comprehensively enhancing employees' professional skills and leadership capabilities through new employee orientation training and a four-stage talent development pathway. This system not only promotes individual employee growth but also establishes a solid talent foundation for Hoyinn's sustainable development and industry leadership. Additionally, to foster cross-departmental capability integration, Hoyinn innovatively implements management rotation and virtual project team mechanisms. By arranging for SENIOR Eagle and JUNIOR Eagle program participants to engage in cross-departmental exchanges and collaborative activities, functional barriers are broken down and coordination efficiency is improved.

2024 Talent Development Plan

SUPERNOVA Program

Specialized Skill Advancement

Customized training + practical work experience

Campus recruits and professional engineers

Aimed at cultivating specialists in technical skill refinement. Primarily targeting fresh graduates and professional engineers for operation and maintenance positions, the program combines theoretical training with practical guidance to help them build a solid professional foundation. In 2024, the SUPERNOVA conducted **72** training sessions with **38** participants, average total individually **148** hours.

JUNIOR EAGLE Program

Exemplar of Efficient Execution

Basic team managers and business core backbone personnel

1-year training + 3-month rotation practice

Aimed at shaping exemplars of efficient execution. Through combined training and rotation practice, this program strengthens the professional capabilities of basic team managers and business core backbone personnel. In 2024, the JUNIOR EAGLE Program conducted **4** training sessions with a total of **150** participants, average total individually **64** hours.

SENIOR EAGLE Program

Leader of Organizational Effectiveness Enhancement

Middle managers and business unit or functional managers

1-year training + 2 types of action learning

Focused on cultivating leaders who can enhance organizational effectiveness. Targeting middle managers and business or functional management staff, this program further improves management effectiveness through training and specific learning actions. In 2024, the SENIOR EAGLE Program conducted **3** training sessions with a total of **70** participants, average total individually **48** hours.

HEROIC EAGLE Program

Navigator of Strategic Advancement

Executives + high-potential middle managers

Training + business innovation + business breakthrough

Aimed at cultivating navigators who can drive strategic advancement. Designed for executives and high-potential middle management talents, this program helps shape strategic thinking and leadership capabilities through training, business innovation, and critical project execution.

SENIOR EAGLE Program Forges Strategic Organizational Capabilities

Case

In December 2024, the first phase of Hoyinn's SENIOR EAGLE Program training was successfully completed. Nineteen mid-level managers from various business units of the group underwent systematic strategic capability development. The training focuses on enhancing the participants' vision, cognition, and strategic abilities, kicking off the business strategy training with practical exercises. Through teamwork and creative collisions, it stimulates the participants' awareness of rules and innovative spirit. During practical exercises, participants applied the COST analysis model and business flow templates to conduct war-game simulations centered on 2025 strategic objectives. Through activities such as competitions, they refined their skills in the end-to-end process from strategy decoding to execution. By breaking down information barriers and building a three-dimensional system of employee "capability-willingness-environmental support," the program laid a solid foundation for organizational capability building in the Hoyinn 2.0 era.

JUNIOR EAGLE Program Enhances Practical Project Management Skills

Case

In November 2024, the fourth installment of Hoyinn's JUNIOR EAGLE Program focused on improving project management capabilities. Through a two-day immersive training, participants systematically mastered the end-to-end methodology of project management. The training featured practical expert as instructor, adopting a "theoretical tools + scenario simulation" teaching model that emphasized five key phases: project initiation, planning, execution, monitoring, and closure. Through hands-on exercises such as developing project charters, using MECE analysis to decompose WBS, and applying Beta distribution for timeline estimation, participants gained a deep understanding of project management tool applications. The training innovatively introduced professional tools like the "Fifteen Matrix" and "Cartesian Methodology" to help participants develop structured thinking and enhance cross-level communication and risk management capabilities.

SUPERNOVA Program Supports Rapid Growth of New Employees

Case

In April 2024, the class one in phase two of Hoyinn's SUPERNOVA Program was launched, enabling thirteen new employees to quickly integrate into the company through systematic training. The program employed a comprehensive cultivation model of "ice-breaking activities + business awareness + safety practical training." Through campus tours and sandbox explanations, participants developed a holistic understanding of the company's business operations. The program provided all-around growth support for new employees, not only accelerating the onboarding process but also infusing fresh talent into Hoyinn's O&M team, demonstrating the company's systematic planning and investment in talent development.

Safeguarding Health and Safety

Hoyinn always prioritizes the health and safety of our employees, establishing a comprehensive, multi-level safety management system to ensure risk control throughout the entire engineering construction process.

Safety Management Governance

Hoyinn has established a scientific and complete safety production management system, reinforcing safety defenses through three mechanisms: organizational guarantee, responsibility implementation, and target management.

Organizational Guarantee

Hoyinn has set up a Safety Production Committee as the highest leadership body to coordinate and manage safety efforts across the entire organization.

Responsibility Implementation

At each construction project, O&M team, office, and property logistics facility, Hoyinn assigns dedicated project managers and safety officers. This creates a dual-control model where "project managers oversee planning while safety specialists conduct on-site supervision," ensuring that safety management responsibilities are implemented at every level.

Target Management

Hoyinn has established strict safety standards of "Four Preventations and Two Ensures": prevent fatalities, major equipment damage, major fires, and environmental pollution incidents; ensure 100% rectification rate of major hazards and ensure the frequency of severe injury accidents remains below industry average. These measures guarantee the safety and health of all construction personnel, achieve full-process controllable and managed safety production in engineering construction, and create a safe and efficient engineering construction environment.

Safety Risk Prevention

Hoyinn has implemented a rigorous safety risk prevention and control system that effectively mitigates potential construction risk, through standardized management, whole-process supervision, and safety culture development. This comprehensive approach ensures a secure and healthy working environment for all employees.

Standardized Management

Hoyinn explicitly requires that all processes including construction, operations and maintenance, and office comply with EHS and construction safety management system regulations. Dedicated safety officers conduct regular inspections, promptly stop violations, and maintain detailed records.

Whole-Process Supervision

Hoyinn has established a robust system for identifying and addressing potential hazard. Dedicated safety officers regularly inspect and immediately document any identified risk, including location, manifestation, and severity. Rectification notices are promptly issued with clear problem lists, corrective requirements, and deadlines. During rectification, safety officers track progress and provide technical support for complex issues. Follow-up inspections are conducted after the rectification period, with further measures taken for non-compliant cases.

Safety Culture Development

Hoyinn emphasizes safety culture development by conducting monthly safety education meetings for all employees, holding weekly safety production meetings, and regularly organizing fire drills and emergency rescue training. These initiatives enhance safety awareness and skills among personnel at all construction projects, O&M teams, and office.

Construction Center Conducts Special Winter Construction Safety Inspection

Case

In December 2024, Hoyinn's Construction Center launched a special winter construction safety inspection initiative to address challenges posed by low temperatures and severe weather conditions during the winter season. Led by safety officers along with project managers, the inspection involved collaboration with supervision companies and construction contractors. It comprehensively covered all critical aspects of ongoing projects, including work-at-height operations, temporary electricity usage, mechanical equipment, fire safety, and living area conditions. The inspection team focused on identifying winter-specific safety hazards such as fall protection for elevated work, freeze prevention for temporary electrical systems, seasonal equipment maintenance, completeness of firefighting facilities, and heating and sanitation conditions in living areas. For any issues identified, the inspection team provided immediate on-site rectification recommendations with strict deadlines for implementation.

Hoyinn organizes monthly safety peer-review activities among all project teams, facilitating mutual learning through cross-inspections to identify and address gaps in safety management. The company also regularly observes emergency drills to collectively enhance emergency response capabilities. Safety officers develop annual emergency drill plans tailored to project specificities, conducting at least one drill per month through both tabletop exercises and practical simulations, covering various potential accident scenarios.

Hoyinn Conducts Comprehensive Emergency Drill for Production Safety Incidents

Case

In June 2024, Hoyinn's Huailai Regional Company collaborated with the O&M Center, Construction Center, local fire brigade, and emergency medical center to conduct the "2024 Comprehensive Emergency Drill for Production Safety Incidents" at the Huailai campus. The drill simulated a fire scenario in power distribution room of the campus, encompassing 11 key procedures including alarm notification, fire zone security, evacuation, initial fire suppression, and casualty rescue. All teams coordinated closely: the security and evacuation group guided personnel to safety, the communication team maintained uninterrupted information flow, the logistics support group provided necessary resources, and the rescue team performed emergency operations including CPR and AED application for injured personnel. Through collective efforts, the fire was extinguished and casualties received proper medical treatment. Following the drill, experts recommended enhancing detail management and complex scenario drills to ensure scientific and efficient emergency response.

"Work Safety Month" Campaign

Case

In June 2024, Hoyinn successfully organized the "Work Safety Month" campaign, which covered all construction and supervision companies within the campus. The initiative aimed to strengthen a strong awareness of work safety for employees across all construction sites. Through diverse methods such as installing safety bulletin boards, displaying safety slogans, posting posters, and playing educational videos, work safety knowledge was effectively disseminated. Additionally, Hoyinn arranged activities including safety knowledge competitions, safety speeches, and a "Safety Skills Competition," which significantly enhanced construction personnel's enthusiasm and initiative in work safety.

Data Safety Training

Case

In November 2024, Hoyinn's O&M Center conducted work safety training. The event invited nationally recognized expert Niu Ben to lecture about critical sessions such as safety standards and regulations, special operations safety, hazard identification and management, use of protective equipment, and emergency response. Using typical data center accident cases, the training provided in-depth analysis of accident causes, explained hazard identification processes and risk assessment tools, and emphasized the importance of special operations protocols and correct usage of protective gear. This initiative strengthened the security and stability of Hoyinn's production environment.

Emergency Rescue Training

Case

To enhance employees' emergency rescue capabilities and reinforce life safety awareness, Hoyinn held an emergency rescue training themed "Safety First, Protecting Lives" at the Huailai campus on March 27, 2024. The training was led by instructors with extensive emergency rescue experience, who provided detailed theoretical knowledge and practical methods for on-site rescue. The content covered concepts of on-site rescue, cardiopulmonary resuscitation CPR + AED use, trauma care, and other critical aspects.

Supplier Safety Assurance

Hoyinn has established a rigorous supplier qualification and process supervision mechanism. The company mandates that all construction contractors establish robust hazard identification protocols, perform daily safety inspections, and submit detailed documentation to ensure prompt detection and resolution of potential risks. In terms of procedural compliance, Hoyinn employs a triple verification system through construction plan pre-review, operational process monitoring, and regular compliance reporting to ensure all construction processes strictly adhere to national regulations and industry standards.

Furthermore, Hoyinn places strict emphasis on supplier safety education and training management. Construction contractors must complete 24 hours of safety training before commencing work, covering critical areas such as operational procedures and emergency response, with mandatory assessment for qualification. Through the establishment of a management model combining "system constraints + process supervision + capability building," Hoyinn has achieved standardized and systematic supplier safety management, ensuring a solid and secure supply chain for construction safety.

Enhancing Employee Benefits

Hoyinn emphasizes sharing corporate development achievements with employees. Beyond providing statutory benefits such as social insurance and housing funds, Hoyinn provides a wide range of tailored welfare programs based on organizational values and employee needs, dedicated to building a harmonious, warm, and cohesive talent team.In addition to benefits including supplementary medical insurance, annual health check-ups, holiday point redemption, and wedding and newborn gifts, Hoyinn organizes diverse interest activities such as sports meetings, company song chorus competitions, cross-department team building, women's benefit days, birthday parties, afternoon tea gatherings, and employee English corners. These initiatives are designed to meet varied employee needs and encourage a more positive, energetic, and enthusiastic lifestyle.

- Annual Employee Health Check-ups
- Wedding and Childbirth Gifts
- Supplementary Medical Insurance
- Sports Meetings
- Holiday Point Redemption
- Cross-Department Team Building
- Afternoon Tea Gatherings
- Company Song Chorus Competitions
- Employee English Corners
- Women Employee Benefit Days
- Birthday Parties

Hoyinn Celebrates International Women's Day

Case

In March 2024, Hoyinn's Administrative Center organized an event to celebrate International Women's Day. Female employees from Beijing, Huailai, and Langfang regions gathered to participate in a handmade mother-of-pearl brooch crafting activity and received carefully prepared floral bouquets. This event enriched the spiritual and cultural lives of female employees and showcased their positive work attitude and life aspirations. Through the activity, employees enhanced communication and strengthen team cohesion in relax and entertainment.

Hoyinn Launches Shuttle Service to Improve Commuting Experience

Case

In October 2024, Huailai campus official launched a new energy shuttle service between Shacheng and the campus. Based on employee needs, the route was scientifically planned to cover key residential areas, significantly reducing commuting time. The service provides convenient transportation, facilitates employee interaction, and promotes green travel concepts. It represents Hoyinn's commitment to improving working conditions and fostering mutual growth.

Hoyinn Cross-Department Team Building Activity

Case

In June 2024, Hoyinn held its second cross-department team building activity at Huanghuacheng Water Great Wall. Over 140 employees participated in ice-breaking games like Name Stacking and Da Vinci Code. Employees supported each other during challenging activities like load-bearing climbs and hikes, enhancing willpower and teamwork. They also built creative roller coasters using PVC pipes, demonstrating innovation and execution.

Hoyinn Speed: Driving Organizational Efficiency Improvement through Professional Collaboration and Cultural Innovation

Case

In 2024, Hoyinn carried out the "Hoyinn Speed" corporate culture activity. Using a "professional collaboration + innovative practice" competition model, it was conducted in three stages:

STAGE 01 documented cultural stories through essay competitions;

STAGE 02 achieved cross-position skill learning through the "Cross-Hoyinn Relay Race";

STAGE 03 featured case presentations by seven teams (such as the Light Speed Pioneer Team completing M&O certification in 84 days, and the Quantum Entanglement Team demonstrating full bidding process collaboration) to highlighting a professional culture that emphasizes both speed and quality.

The activity implemented a dual-track scoring system for individuals and teams, strengthening the core cultural concept of "acceleration under rules". Through practical business scenariso, it successfully created benchmark cases for cross-department integrated.

Openness and Win-Win

Building a Harmonious Ecosystem Together

In the face of the surging digital wave, Hoyinn has keenly recognized that constructing a value chain ecosystem is the core to drive industrial collaboration and sustainable development. By actively building a green digital infrastructure ecosystem, we call on our ecosystem partners to integrate the concept of sustainable development into every business link and jointly promote the progress of the industry. In addition, Hoyinn actively participates in public welfare activities and practices corporate social responsibility through concrete actions. We believe that only by working hand in hand with relevant parties and adhering to the concept of openness and win-win, can we win the future in the fierce market competition and jointly create a better tomorrow for the digital industry.

Our Goals

- Achieve 100% ESG assessment coverage for suppliers
- Continuously carry out charity activities to demonstrate our corporate citizenship

2024 Progress

- Achieved 100% ESG information disclosure assessment coverage for suppliers
- 100% of suppliers reviewed had content covering important ESG issues
- Charity projects benefited 600 people

Building a Harmonious Industrial Ecosystem

The core of Hoyinn's ecosystem strategy is to deeply cultivate the computing power industry. We organize comprehensive driving forces around the development of the CHONGKO DIGITAL ENERGY INDUSTRY DEVELOPMENT ECOLOGICAL ORGANIZATION and build a multi-level, multi-dimensional ecosystem to promote the continuous development of strategic practice and performance growth.

Internal Ecosystem Chain Construction-Rigid Connection: Actively linking up with companies in the digital energy industry to integrate the entire industrial chain, thereby forging the core competitiveness of the enterprise. We are committed to expanding the influence of green computing power, providing solid support for the construction of the digital energy ecosystem, and further expanding the influence of the digital energy industry.

External Ecosystem Construction-Value Connection: Relying on three major circles of capability, industry, and capital, we closely connect digital and energy ecosystem partners to provide strong capability support for Hoyinn. This assists the stable development of strategic practice and performance. Under the guidance of our strategy, the company continuously expands the cooperation circle, working hand in hand with many partners to jointly explore the potential of digital energy, support its influence of the ecosystem, achieve ecosystem win-win, and promote Hoyinn's continuous prosperity and development in the era of digital energy.

"Sparkling Stars Ignite Digital Energy" First Sports Meet and Choral Competition

Case

In September 2024, on the occasion of the fourth anniversary of the company, Hoyinn, in conjunction with various industrial companies under CHONGKO, successfully hosted the "Sparkling Stars Ignite Digital Energy" event. This event innovatively integrated two distinctive segments: a sports meeting and a company song chorus competition. Through a variety of formats, including a torch relay ceremony, corporate anthem singing, and physical challenge contests, it showcased the spirit of employees from all industrial companies in an all-encompassing manner and strengthened the cohesive power of industrial collaboration. Looking ahead, Hoyinn will continue to deepen strategic cooperation with partners in the green digital energy industry chain. With the construction of low-carbon computing infrastructure as a strategic fulcrum, we will join hands to depict a new blueprint for green development in the intelligent era.

Hoyinn and Heengy Cross-Industry Exchange Activity

Case

In November 2024, Hoyinn, together with Heengy and other sister industrial companies, held a cross-industry exchange activity focusing on operation and maintenance as well as engineering construction. Participants visited the technology exhibition hall, central control center, and under-construction data center rooms at Hoyinn's Huailai Campus, gaining an in-depth understanding of the efficient operation and safety management of data centers. The activity also included a field visit to the substation of ZTO Constant Current, which visually demonstrated the electrical architecture and power supply methods. During the exchange session, participants shared technical and maintenance experience, discussed the efficient use of energy in data centers and the synergy of green energy, and laid the foundation for future business synergy.

Cross-Industry Exchange Activity at Heengy Photovoltaic Power Plant in Yu County

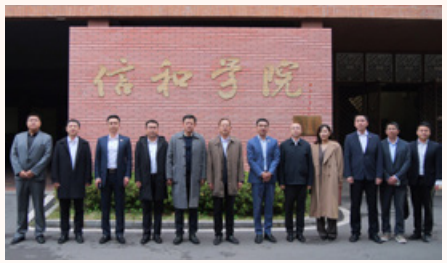
Case

In November 2024, Hoyinn, ZTO Constant Current, Chongho Carbonergy, and other sister companies held a cross-industry exchange meeting at the 300MW photovoltaic power plant in Yu County operated by Heengy, focusing on the theme of "Integrating Green Digital Energy to Build New-Generation Productivity." Participants visited the 220kV substation and the core area of the photovolxtaic project to gain an in-depth understanding of the photovoltaic equipment configuration, technological applications, and power generation characteristics. During the exchange session, discussions centered on new energy project construction, technological development, and industrial synergy. Participants shared successful experiences and explored strategies for synergistic power generation and utilization.

Promoting the Construction of the External Ecosystem and Signing Strategic Cooperation Agreements

Case

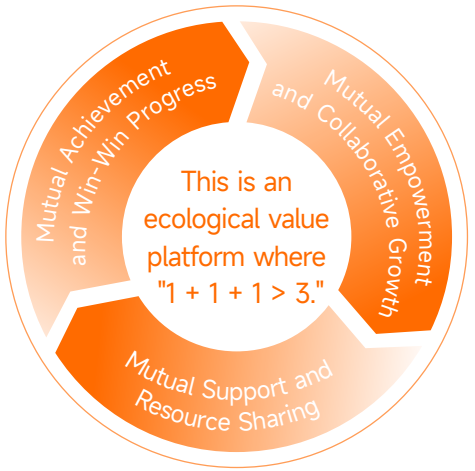
In 2024, Hoyinn signed strategic cooperation agreements with several key partners in the ecosystem, including China Construction Fifth Engineering Bureau, China Construction Eighth Division, Sino Ic Leasing, Tianjin Branch of China Academy of Building Research, Huawei Digital Power, and Envision Technology Group. Adhering to the philosophy of "synergistic progress, resource sharing, value co-creation, diversified coexistence, and sustainable win-win," Hoyinn leveraged the solid foundation of friendly cooperation and respective strengths to jointly build a digital energy industry value chain and achieve sustainable development goals.



Preparation for the China Zero-Carbon Eco Alliance

Responding positively to the national "Dual Carbon" strategy and adhering to the concept of green development, Hoyinn is actively preparing to participate in the establishment of the "China Zero-Carbon Eco Alliance." As a company in the data center industry, we deeply understand that achieving the carbon neutrality goal requires industrial collaboration and ecological co-construction. Therefore, we have united partners from upstream and downstream of the industrial chain to jointly explore new models of zero-carbon development.

The alliance will be committed to the purpose of "uniting industrial forces to jointly create a zero-carbon ecosystem." By building an industrial ecosystem of resource sharing, technological synergy, and commercial empowerment, it will promote the implementation of innovative scenarios such as green computing power and integrated energy services. Hoyinn will fully leverage its professional advantages in data center energy efficiency management, jointly develop zero-carbon technology standards with alliance members, and explore innovative business models such as computing and electricity synergy, contributing industrial strength to the realization of the carbon peak by 2030 and carbon neutrality by 2060.



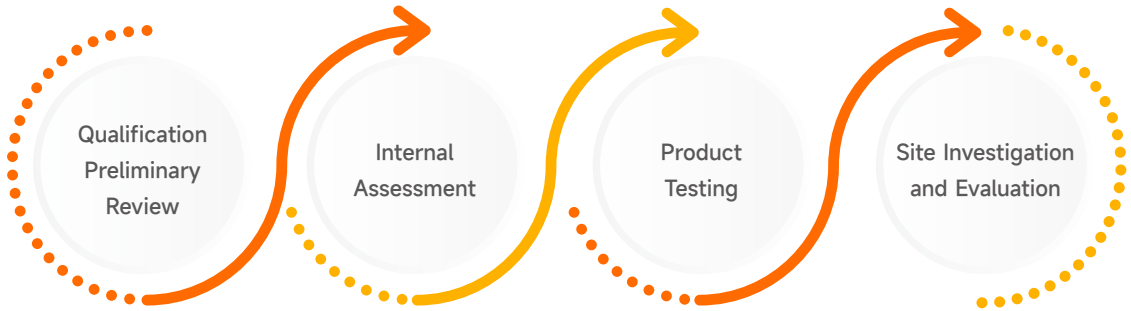
By leveraging the power of collaboration, we make every member stronger.

Building a Responsible Value Chain

Supplier Compliance Management

Hoyinn has established a scientific and comprehensive supplier compliance management system to ensure the standardization and transparency of the entire procurement process through regulation construction and process optimization. We have set up a procurement decision-making committee composed of senior executives, with clear responsibilities and mutual checks and balances, which adopts a collective decision-making mechanism on major matters. The general manager of the procurement center serves as the meeting secretary, responsible for execution and supervision.

Hoyinn has built a scientific and rigorous supplier screening mechanism, forming a complete closed-loop management from qualification review to capability assessment, and comprehensively considering key indicators such as the supplier's technical strength, quality control, and service level. In the procurement decision-making process, the company adheres to the principles of transparency and fairness, formulates differentiated evaluation criteria for different types of procurement needs, and ensures product quality through standardized testing procedures.



Hoyinn Supplier Assessment Process

Strengthening Supply Chain Resilience

Supply chain resilience is a core capability for enterprises to cope with risks and ensure smooth operations, which is innovatively incorporated by Hoyinn into the admission criteria for new suppliers. By evaluating key indicators such as multi-base production capabilities and the degree of production standardization, we can control supply chain risks at the source. During the cooperation, a dynamic monitoring mechanism tracks the suppliers' performance capabilities in real time and a performance-driven tiered management system ensures the healthy operation of the supply chain system.

We also adhere to the concept of green procurement, prioritizing high-quality suppliers that meet environmental protection regulations, and utilizing strategic cooperation as well as long-term agreements for efficient resource allocation. On the technological front, Hoyinn actively introduces low-carbon equipment such as indirect evaporative natural cooling and cold plate liquid cooling,to drive the supply chain's green transformation via technological innovation to boost risk resistance. Through full-process refined management, the organic unity of quality, cost and environmental benefits has been achieved.

Empowering Suppliers through Collaboration

Build a Sustainable Supply Chain

Hoyinn is fully committed to building a sustainable supply chain by deeply integrating ESG factors into the entire supplier management process, covering selection, cooperation, and exit stages. We have established a full life cycle ESG evaluation system and joined hands with like-minded partners to achieve a win-win situation in economic and social development.

Supplier Qualification Review

- Review of the supplier's legal qualifications, including records of significant violations and adverse records in the past three years, litigation records, major safety accidents, and information on being discredited;
- Assessment of the supplier's awareness of ESG management strategy;
- Supplier's ESG information disclosure;
- For suppliers in special industries, such as those related to hazardous chemicals, the company will focus on reviewing their business licenses and discharge permits in the warehousing documents: equipment suppliers are comprehensively rated for the application of green and low-carbon technologies.

Process Management and Evaluation

- Maintain records of negative events for partners.
- During on-site visits to suppliers and unannounced inspections at project sites, focus on the supplier's quality, performance, on-site management, safety management, and ESG performance.
- Conduct semi-annual or annual assessments of suppliers. Suppliers with an evaluation score of ⩾60 points will remain on the "List of Qualified Suppliers," while those with a score of <60 points will be included in the "List of Suppliers with Suspended Cooperation."

Supplier Exit

- For suppliers who fail to meet the standards, cooperation will first be suspended and rectification will be initiated to mitigate corporate risks. Suppliers who fail to meet the standards after rectification will be downgraded to a temporary non-cooperation status.

Hoyinn Supplier Lifecycle ESG Evaluation Process

In the supplier admission stage, Hoyinn proactively requests ESG reports to select partners with ESG strategic vision accurately, laying a solid foundation for in-depth cooperation. In 2024, we collected more than 10 ESG and related reports from our partners, using high standards to push suppliers to improve their ESG management performance and providing strong evidence for selecting high-quality suppliers with a strong sense of sustainable development.

During the audit phase, Hoyinn conducts comprehensive analyses of suppliers' quality, performance, on-site management, safety, and ESG performance through on-site visits and unannounced third-party inspections. In 2024, we completed 15 on-site visits and 8 third-party unannounced checks, covering 134 categories and companies, strictly guarding the operation of environmental protection facilities and the safety and comfort of workshop environments. In terms of environmental governance, we strictly examines the operation and sewage discharge permits of hazardous chemical suppliers, those without permits, with expired permits, or with environmental risks are all rejected.

In the post-evaluation stage, Hoyinn conducts a multi-dimensional review of suppliers based on records of negative incidents and performance assessments. Suppliers who fail to meet the standards are first suspended from cooperation and given a deadline for rectification. If rectification fail to meet the standards, they will be downgraded to non-cooperation status. Prefererred suppliers with excellent performance, enjoy more opportunities in contract renewal and order allocation to strengthen cooperation for suppliers that contribute to the construction of the supply chain ecosystem, strategic cooperation agreements are signed to enhance the resilience of the supply chain and create a positive supply chain ecosystem.

In 2024

15 on-site visits

8 third-party unannounced inspections were completed.

Empowering the Supply Chain with Green Initiatives

Hoyinn has integrated resources from financial institutions, research institutes, and industrial partners to build a closed loop of green empowerment, which includes "technical standards-financial instruments-industrial applications." In 2024, the company, in collaboration with the Beijing branch of Shanghai Pudong Development Bank, successfully implemented the first green computing power index sustainability-linked loan for data centers nationwide. This initiative marked an innovative practice of using financial tools to empower the construction of green computing infrastructure. By inviting partners to participate in index release events and conducting cooperative exchanges, Hoyinn actively shares this innovative financial cooperation model with its supply chain partners, empowering the green transformation of the supply chain.

At the same time, we actively lead the green and industrial upgrading of the supply chain, deepening strategic cooperation with core suppliers to empower sustainable development of the industrial chain. In 2024, a long-term partner, in order to closely meet the needs of our Huailai project and to implement the concept of green industrialization, established a subsidiary in Huailai. This move significantly reduced the transportation radius, lowered costs, and enhanced the resilience and response efficiency of the supply chain. The localization of the equipment assembly plant has made the cooperation between the two parties even closer, strongly promoting the clustering development of the big data industry in Huailai, improving the green level of the supply chain, and creating jobs locally to support high-quality regional economic development.

Actively Contributing to Public Welfare and Charity

Supporting Rural Revitalization

Empowering Regional Development

Hoyinn adheres to the philosophy of "Business for Good," creating a win-win path for corporate social and economic value. While ensuring the high-quality and efficient delivery of projects, it promotes the vigorous development of the regional economy by creating a large number of employment opportunities.

In Huailai, Hoyinn upholds the "local-first" cooperation concept, working closely with suppliers to prioritize the recruitment of local security guards and cleaning staff. It gives priority to recruiting a large number of local security guards and cleaning staff, opening up convenient employment channels for residents of surrounding villages and town,effectively broadening the paths for residents to increase their income. In the field of infrastructure construction, we fully support local suppliers, deeply promote localized supply and cooperation in key links, and carefully build a stable and reliable supply chain system. This has strongly pulled the coordinated development of upstream and downstream industries, achieving a virtuous interaction and two-way empowerment between corporate development and regional economic prosperity.

As a benchmark demonstration project in the local area, in 2024, Hoyinn (Huailai) Technology Industrial Campus achieved remarkable results in its reception work. Throughout the year, it successfully completed a total of 323 reception tasks, including visits from government departments and enterprises. This effectively promoted cooperation and exchanges among multiple parties and injected strong momentum into the local economic development.

In addition, in 2024, our CEO, Mr. Yang Xilin, was elected as the industry leader of the Huailai Big Data Industry Talent Alliance. The company has fulfilled its corporate social responsibility by coordinating resources from government departments, intermediary associations, and partners in the upstream and downstream of the value chain. Through concrete actions, it supported the skill development and employment assistance of big data-related professionals in Huailai, contributing to the sustainable development of the digital economy in the Beijing-Tianjin-Hebei region.The company has fulfilled its corporate social responsibility by coordinating resources from government departments, intermediary associations, and partners in the upstream and downstream of the value chain.

In Langfang, relying on the "Government + Enterprise + Community" tripartite linkage mechanism, Hoyinn gives priority to absorbing local construction workers and technical personnel during the civil engineering construction phase, and absorbs a large number of local employees on a large scale. Meanwhile, we has carefully built a whitelist of local suppliers and implementd technical assistance and business orders preference strategies,continuously injected new momentum into the regional economic development and made every effort to boost the thriving growth of local enterprises.

Engaging in Public Welfare

"United in Building Dreams, Filling the Air with the Scent of Books" Public Welfare Scholarship

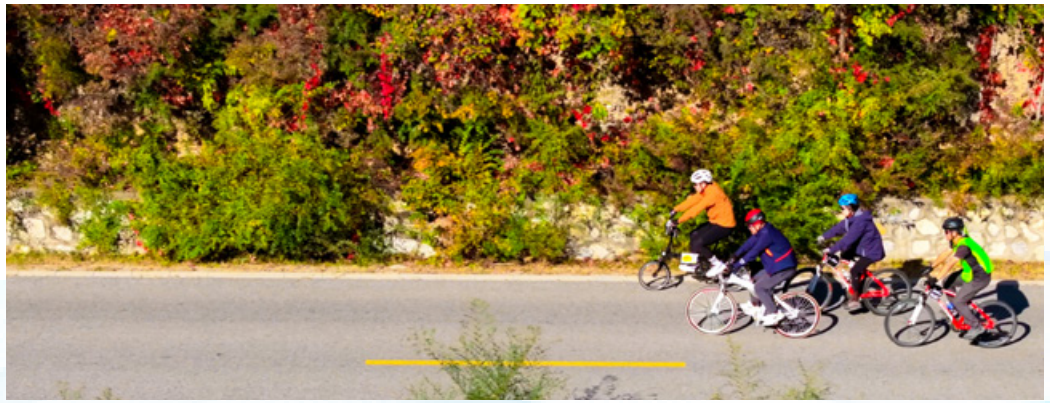
On June 6, 2024, Hoyinn's public welfare envoys visited the Xiyulin Central School in Donghuayuan Town, Huailai County, Zhangjiakou City, Hebei Province. They personally handed over nearly 2,000 carefully selected books, including popular science readings, classic literature, and story picture books, to the teachers and students of the school, and conducted a book-sharing activity with the children.

Located in a remote mountainous area on the southwestern border, Doumuku Primary School in Jiemo Township, Guangnan County, Wenshan Prefecture, Yunnan Province, has more than half of its students as left-behind children from rural areas. The local economy is underdeveloped and teaching resources are scarce. In 2024, Hoyinn launched the children's book donation campaign themed as "Building Dreams Together, Filling the Air with the Scent of Books". During the nearly one-month donation activity, Hoyinn staff from Beijing, Huailai, and Langfang enthusiastically donated books. Over 3,000 loving children's books and urgently needed teaching materials were sent to Doumuku Primary School, helping many eager-to-learn children there pursue a rich spiritual life.

Practicing Green Digital Infrastructure by Environment Protection

In October 2024, the "Chasing Wind and Light" zero-carbon public welfare cycling event, co-hosted by Hoyinn and industry-leading companies, was successfully held in the Hundred-mile Gallery in Yanqing, Beijing. The event gathered over a hundred ecological partners from more than twenty energy and technology companies, including Envision Energy, Huawei Digital Energy, Sungrow Power Supply, and Pinke Energy. They practiced the concept of green and low-carbon in an innovative form and jointly explored the in-depth integration of digital energy and sustainable development.

The event adoptrd an intelligent carbon monitoring system to record the carbon emission reduction data of each participant in real time. Through the immersive cycling experience, participants intuitively felt the actual effect of their personal environmental protection actions. The specially designed carbon footprint calculation link allowed each cyclist to quantify their emission reduction contribution, effectively enhancing environmental awareness. Many participants said that such "visible" environmental practice inspired them and that they would continue to practice the low-carbon concept in their daily lives.



ESG Key Performance

Economic Indicators

Company Operation[1]				
Indicator	Units	2022	2023	2024
Total Assets	Millions of RMB	3,245	7,238	15,117
Environmental Protection Inputs	Ten thousands of RMB	72.70	1,531.01	3,140.51

Governance Indicators

Board Tenure Statistics				
Indicators	Unit	2022	2023	2024
Number of Directors	Number	4	4	4
Number of directors with expertise in risk management[2]	Number	2	2	2

Business Ethics				
Indicators	Unit	2022	2023	2024
Total number of anti-corruption and commercial bribery trainings for directors/ executives	times	2	1	1
Total number of anti-corruption and commercial bribery trainings for ordinary staffs	times	5	5	5
Percentage of personnel covered by training on business ethics matters	%	100	100	100
Percentage of personnel covered by anti-trust and fair competition training sessions	%	100	100	100
The time cycle for the company to complete audits of all operating entities	Months	12	12	12

[1] The scope of statistics includes Hoyinn and its subsidiaries (including operating entities under their operational control).
[2] Including directors with backgrounds in accounting and law.

Environmental Indicators

Emissions				
Indicator	Unit	2022	2023	2024
Total emissions at operational level	Tons of CO2e	4,406.89	276,649.32	772,225.21
Scope I Emissions[1]	Tons of CO2e	283.53	945.40	970.46
Scope II Emissions	Tons of CO2e	4,123.36	275,703.92	771,254.75
Carbon emission reduction by offset actions	Tons of CO2e	-	32,590.54	142,403.08
Actual emissions after carbon offsetting	Tons of CO2e	4,406.89	244,058.38	629,822.13
Total domestic waste[2]	Cubic meters	158.40	844.80	1,562.88
Total Hazardous/Hazardous Waste	Tons	-	7.79	39.15

Water Management				
Indicators	Unit	2022	2023	2024
Water withdrawal[4]	Tons	2,699.80	327,798.00	1,116,316.30
Total water consumption	Tons	2,649.80	328,538.50	907,204.20
Production water	Tons	2,581.70	326,736.00	896,879.50
Domestic water consumption	Tons	68.10	1,802.50	10,324.70
WUE	/	0.87	0.81	0.85

Energy Consumption				
Indicator	Unit	2022	2023	2024
Gasoline usage[3]	Liters	15,915	19,363	16,129
Diesel Usage	Liters	91,615	334,677	346,795
Purchased grid electricity use	kWh	7,684,236	513,797,846	1,437,299,192
Data Center Campus	kWh	7,684,236	513,797,846	1,437,201,136
Beijing Office	kWh	-	-	98,056
Solar Power Generation	kWh	-	1,814	5,518
Renewable Energy and RECs	MWh	-	60,736	262,352
Average annual PUE	/		1.263	1.229

Green Building				
Indicators	Unit	2022	2023	2024
Total number of green data center certificates obtained	Number of Certificates	11	11	11

[1] The scope of carbon emission data was the data center park in 2022 and 2023, and it was expanded to the entire data center area and the Beijing headquarters office in 2024.

[2] The scope is the data center campus.

[3] The price of No. 92 gasoline in Beijing on December 31, 2022, 2023 and 2024 is converted (RMB 7.54/liter, RMB 7.54/liter, RMB 7.44/liter), and the gasoline usage in those years is estimated.

[4] The scope is the data center campus, all from municipal water supply.

Social Indicators

General Information of Employee				
Indicators	Units	2022	2023	2024
Total number of employees worldwide	Persons	187	265	438
Of which, by gender				
Male employees	Persons	125	191	351
Female employees	Persons	62	74	87
Percentage of male employees	%	67	72	80
Percentage of female employees	%	33	28	20
Of which, by age				
30 years old and below	Persons	18	49	157
31-40 years old	Persons	122	160	227
41-50 years old	Persons	46	54	52
Over 50 years old	Persons	1	2	2
Of which, by education				
Master's degree and above	Persons	24	24	27
Undergraduate	Persons	114	170	247
Specialized and below	Persons	49	71	164
Of which, by position				
Managers (including junior management)	Persons	26	32	45
Sales staff	Persons	4	4	4
Functional support staff	Persons	78	81	101
R&D and technical staff	Persons	79	148	288

General Information of Employee				
Indicators	Units	2022	2023	2024
Of which, by region				
China, including Hong Kong, Macao and Taiwan	Persons	187	265	438
Excluding China	Persons	-	0	0
Of which, by position				
Number of female employees at senior management level	Persons	2	2	3
Number of male employees in senior management	Persons	5	5	5
Number of female employees in executive management	Persons	6	8	10
Number of male employees in executive management	Persons	13	17	27
Of which, by type of work				
Part-time employees[1]	Persons	2	2	2
Temporary workers	Persons	-	0	0
Interns	Persons	-	0	0
Full-time employees	Persons	185	263	436
Number of Minority Employees	Persons	2	7	10
Employee satisfaction	Point	98	97	98.5

[1] Part-time employees, referring to employees with disabilities.

New Employee				
Indicators	Units	2022	2023	2024
Total number of new employees	Persons	106	96	239
Of which, by region				
China, including Hong Kong, Macao and Taiwan	Persons	106	96	239
Excluding China	Persons	-	0	0
Of which, by age	Persons			
30 years old and below	Persons	11	43	124
31-40 years old	Persons	71	46	97
41-50 years old	Persons	24	9	18
Over 50 years old	Persons	-	0	0
Of which, by gender				
Number of male employees	Persons	78	79	217
Number of female employees	Persons	28	17	22
Percentage of female employees at management level	%	34.62	22.22	26.67
Percentage of female technical staff	%	10.26	8.15	6.25
Percentage of female employees among other employees	%	55.70	55.00	54.29
Minority employees at management level	%	0	0	4.44
Ethnic Minority Employees in Technical Staff	%	0	2.48	0.69
Other employees ethnic minorities	%	2.53	3.38	5.71

Employee Turnover				
Indicator	Unit	2022	2023	2024
Total annual employee turnover	Persons	23	32	55
Of which, by region				
China, including Hong Kong, Macao and Taiwan	Persons	23	32	55
Excluding China	Persons	-	0	0
Of which, by age				
30 years old and below	Persons	5	9	15
31-40 years old	Persons	12	14	32
41-50 years old	Persons	6	9	8
Over 50 years old	Persons	-	0	0
Among them, according to gender				
Number of male employees	Persons	15	23	50
Number of female employees	Persons	8	9	5
Employee turnover rate	Persons	-	17.10	20.75
Of which, by age				
30 years old and below	%	21.74	28.13	27.66
31-40 years old	%	56.52	43.75	55.32
41-50 years	%	21.74	28.13	17.02
Over 50 years old	%	0	0	0
Of which, by gender				
Male employees	%	65.22	71.88	89.36
Female employees	%	34.78	28.13	10.64

Parental Leave				
Indicator	Unit	2022	2023	2024
Total number of employees taking parental leave[1]	Persons	9	14	17
Number of male employees	Persons	5	9	12
Number of female employees	Persons	4	5	5
Return rate of employees on parental leave	%	100	100	100
Retention rate of employees returning from parental leave after one year of employment	%	100	100	100

Health and Safety				
Indicator	Unit	2022	2023	2024
Annual number of employees killed at work (global)	Persons	0	0	0
Annual number of employees injured on the job (global)	times	0	0	0
Number of workplace injuries with serious consequences	Persons	0	0	0
Percentage of work injuries with serious consequences	%	0	0	0
Number of recordable injuries	Case	0	0	0
Percentage of recordable injuries	%	0	0	0
Safety drills	times	-	21	47
Number of safety training sessions	times		43	135
Number of employee safety training participations	Person-times	-	150	620
Employee safety training coverage	%	0	100	100
Supplier safety training participation	Person-times	-	6,126	6,160
Supplier safety training coverage	%	0	100	100

[1] Parental leave, including maternity leave, paternity leave, and statutory parental leave.

Employee Training and Development				
Indicator	Unit	2022	2023	2024
Total number of trainees	Person-times	187	263	436
Total training hours for all employees	Hours	1,264	2,514	21,606
New Employee Training	Times	88	79	130
Number of training periods for new employees	Period	4	4	3
Lesson hours for new employees	Hours	528	474	780
Total Employee Training Expenditures	RMB	22,000	245,000	745,000

Supplier Management				
Indicator	Unit	2022	2023	2024
Number of suppliers	Number	-	828	1061
Among them, according to the region				
Northeast region	Number	1	1	3
Number in North China	Households	427	603	787
Number in East China	Number	86	140	174
Number in South China	Number	24	55	61
Number in West China	Number	12	18	20
Number in Central China	Households	9	11	16
Proportion of localized procurement	%	-	100	100
Supplier ESG disclosure inspection coverage	%	100	100	100
Number of suppliers that have completed the audit	Number	22	87	130
Percentage of suppliers whose audits cover important ESG issues[2]	%	100	100	100

[2] ESG key issues including labor safety, labor rights protection, environment protection, product and service quality, etc.

Products & Services				
Indicator	Unit	2022	2023	2024
Number of data centers with Uptime M&O certification	Number	-	-	2

Information Security				
Indicator	Unit	2022	2023	2024
China Information Security Level Protection	Level	-	-	A
ISO 27001 Information Security Management System Certification Obtained	Yes/No		Yes	Yes

Innovation and R&D				
Indicator	Unit	2022	2023	2024
Cumulative number of global patents filed	Pieces	-	9	6
Cumulative number of patents granted worldwide	Pieces	-	1	7
Total annual R&D investment	Millions of RMB	4	8	17

Public Welfare and Charity				
Indicator	Unit	2022	2023	2024
Number of public charity projects	Number	-	-	3
Number of Employee Volunteers	Persons	-	-	436
Number of various public charity activities organized	Number	-	-	3
Number of beneficiaries of public charity programs in the year	Number	-	-	600

Report Index

GRI Content Index Table

Notes on Use: Hoyinn reported the information referenced in this GRI Content Index in accordance with the GRI Standards for the period from January 1, 2024 to December 31, 2024.
Standard Citation: GRI 1: Foundation 2021

GRI Standards	Serial Number	Disclosure Item	Disclosure Location
GRI 2: General Disclosure 2021	2-1	Organization Details	About Us
	2-2	Entities included in the organization's sustainability report	About this Report
	2-3	Reporting Period, Frequency of Reporting, and Contact Person	About this Report
	2-4	Restatement of Information	About this Report
	2-5	External Testimonials	Independent Assurance Statement
	2-6	Activities, Value Chain and Other Business Relationships	About Us
	2-7	Employees	Well-being: Pursuing Mutual Growth of Employee and the Enterprise
	2-8	Workers Other Than Employees	Well-being: Pursuing Mutual Growth of Employee and the Enterprise
	2-9	Governance Structure and Composition	Improving the Corporate Governance System
	2-10	Nomination and Selection of the Top Governing Body	Improving the Corporate Governance System
	2-11	Chairman of the Supreme Governing Body	Improving the Corporate Governance System
GRI 2: General Disclosure 2021	2-12	Oversight Role of the Supreme Governing Body in Managing Influence	Improving the Corporate Governance System
	2-13	Delegation of Responsibility for Managing Impact	Improving the Corporate Governance System
	2-14	Role of the highest governance body in sustainability reporting	ESG Governance Structure
	2-15	Conflicts of Interest	Improving the Corporate Governance System
	2-16	Communication of Critical Concerns	Stakeholder Engagement
	2-17	Common Knowledge of Top Governing Bodies	Improving the Corporate Governance System
	2-18	Performance Evaluation of the Highest Governance Body	Improving the Corporate Governance System
	2-19	Remuneration Policy	Improving the Corporate Governance System
	2-20	Procedures for Determining Remuneration	Omitted
	2-21	Annual Total Remuneration Ratio	Omitted
	2-22	Statement on Sustainability Strategy	Message from Our CEO

GRI Standards	Serial Number	Disclosure Item	Disclosure Location
GRI 2: General Disclosure 2021	2-23	Policy Commitments	ESG Framework
	2-24	Policy Commitment on Integration	None
	2-25	Procedures to Remedy Negative Impacts	Material Issues Impact Analysis
	2-26	Mechanisms for Seeking Advice and Raising Concerns	Stakeholder Engagement
	2-27	Compliance with Laws and Regulations	Consolidating the Compliance System
	2-28	Membership in the Association	None
	2-29	Methods of Stakeholder Engagement	Stakeholder Engagement
	2-30	Collective Bargaining Agreements	Omitted
GRI 3: Substantive Issues 2021	3-1	Process for Identifying Substantive Issues	Dual Materiality Analysis
	3-2	List of Substantive Issues	Dual Materiality Analysis
	3-3	Management of Substantive Issues	Dual Materiality Analysis
GRI 201. Economic Performance 2016	201-1	Directly generated and distributed economic value	Economic Indicators
	201-2	Financial impacts and other risks and opportunities from climate change	Climate Strategy
	201-3	Defined benefit plan obligations and other retirement plans	None
	201-4	Financial subsidies granted by the Government	Omitted

GRI Standards	Serial Number	Disclosure Item	Disclosure Location
GRI 202: Market Performance 2016	202-1	Ratio of standardized starting level wage to local minimum wage by gender	Omitted
	202-2	Ratio of executives hired from the local community	Omitted
GRI 203: Indirect Economic Impacts 2016	203-1	Infrastructure Investment and Supporting Services	"3+1"Green Digital Infrastructure Development Strategy
	203-2	Significant Indirect Economic Impacts	Openness and Win-Win: Building a Harmonious Ecosystem Together
GRI 204: Procurement Practices 2016	204-1	Percentage of Spending on Purchases from Local Vendors	Omitted
GRI 205: Anti-Corruption 2016	205-1	Operational sites that have conducted corruption risk assessments	Enhancing Business Ethics Standards
	205-2	Communication and Training on Anti-Corruption Policies and Procedures	Enhancing Business Ethics Standards
	205-3	Confirmed Incidents of Corruption and Actions Taken	Enhancing Business Ethics Standards
GRI 206: Anti-competitive Behavior 2016	206-1	Lawsuits Against Anticompetitive Behavior, Antitrust, and Antitrust Practices	Enhancing Business Ethics Standards
GRI 207: Taxation 2019	207-1	Methods of tax administration	Ensuring Tax Transparency
	207-2	Tax Governance, Control, and Risk Management	Ensuring Tax Transparency
	207-3	Stakeholder Engagement and Management Related to Tax Concerns	Ensuring Tax Transparency
	207-4	Country Reports	Omitted

GRI Standards	Serial Number	Disclosure Item	Disclosure Location
GRI 301: Materials 2016	301-1	Weight or volume of material used	Environmental Indicators
	301-2	Recycled feed material used	Environmental Indicators
	301-3	Recycled products and their packaging materials	Environmental Indicators
GRI 302: Energy 2016	302-1	Energy consumption within an organization	Environmental Indicators
	302-2	Energy consumption outside the organization	Environmental Indicators
	302-3	Energy Intensity	Environmental Indicators
	302-4	Reduced Energy Consumption	Environmental Indicators
	302-5	Reduced Energy Demand for Products and Services	Peaceful Coexistence with Nature: Green Digital Infrastructure Contributes to Global Net-Zero Target
GRI 303: Water Resources and Wastewater 2018	303-1	Organizational interactions with water as a shared resource	"3+1"Green Digital Infrastructure Development Strategy
	303-2	Managing Drainage-Related Impacts	"3+1"Green Digital Infrastructure Development Strategy
	303-3	Water Withdrawal	Environmental Indicators
	303-4	Drainage	Environmental Indicators
	303-5	Water Consumption	Environmental Indicators

GRI Standards	Serial Number	Disclosure Item	Disclosure Location
GRI 304: Biodiversity 2016	304-1	Operations sites owned, leased, and managed by organizations in biodiversity-rich areas located in or adjacent to protected areas and outside protected areas	Omitted
	304-2	Significant impacts of activities, products and services on biodiversity	Omitted
	304-3	Protected or restored habitats	Omitted
	304-4	Species listed on the IUCN Red List and National Conservation List in habitats affected by operations	Omitted
GRI 305: Emissions 2016	305-1	Direct (Scope 1) Greenhouse Gas Emissions	Environmental Indicators
	305-2	Energy Indirect (Scope 2) Greenhouse Gas Emissions	Environmental Indicators
	305-3	Other Indirect (Scope 3) GHG Emissions	Omitted
	305-4	Greenhouse Gas Emission Intensity	Environmental Indicators
	305-5	Greenhouse gas emission reductions	Environmental Indicators
	305-6	Ozone Depleting Substance (ODS) Emissions	Omitted
	305-7	Nitrogen Oxides (NOX), Sulfur Oxides (SOX), and Other Significant Gas Emissions	Environmental Indicators

GRI Standards	Serial Number	Disclosure Item	Disclosure Location
GRI 306: Waste 2020	306-1	Waste Generation and Waste-Related Significant Impacts	"3+1"Green Digital Infrastructure Development Strategy
	306-2	Management of Waste-Related Significant Impacts	"3+1"Green Digital Infrastructure Development Strategy
	306-3	Waste Generation	"3+1"Green Digital Infrastructure Development Strategy
	306-4	Waste Transferred from Disposal	"3+1"Green Digital Infrastructure Development Strategy
	306-5	Waste entering disposal	"3+1"Green Digital Infrastructure Development Strategy
GRI 308: Supplier Environmental Assessment 2016	308-1	New Suppliers Screened Using Environmental Evaluation Dimensions	Building a Responsible Value Chain
	308-2	Negative Environmental Impacts of Supply Chains and Actions Taken	Building a Responsible Value Chain
GRI 401: Employment 2016	401-1	New Employee Hiring Rates and Employee Turnover	Social Indicators
	401-2	Benefits Provided to Full-Time Employees (Excluding Temporary or Part-Time Employees)	Enhancing Employee Benefits
	401-3	Parental Leave	Social Indicators
GRI 402: Labor-Management Relations 2016	402-1	Minimum Notice Periods Regarding Operational Changes	None

GRI Standards	Serial Number	Disclosure Item	Disclosure Location
GRI 403: Occupational Health and Safety 2018	403-1	Occupational health and safety management systems	Safeguarding Employee Rights
	403-2	Hazard Identification, Risk Assessment and Accident Investigation	Safeguarding Employee Rights
	403-3	Occupational Health Services	Safeguarding Employee Rights
	403-4	Occupational health and safety services: worker participation, consultation and communication	Safeguarding Employee Rights
	403-5	Occupational health and safety training for workers	Social Indicators
	403-6	Worker health promotion	Safeguarding Employee Rights
	403-7	Prevention and mitigation of OHS impacts directly related to business relationships	Safeguarding Employee Rights
	403-8	Workers covered by the OHS management system	Safeguarding Employee Rights
	403-9	Workplace Injuries	Social Indicators
	403-10	Work-Related Health Problems	Safeguarding Employee Rights
GRI 404: Training and Education 2016	404-1	Average number of hours of training per employee per year	Social Indicators
	404-2	Employee Skills Upgrading Programs and Transition Assistance Programs	Supporting Employees' Growth and Development
	404-3	Percentage of Employees Receiving Regular Performance and Career Development Appraisals	Social Indicators

GRI Standards	Serial Number	Disclosure Item	Disclosure Location
GRI 405: Diversity and Equal Opportunity 2016	405-1	Diversity in Governing Bodies and Employees	Safeguarding Employee Rights
	405-2	Ratio of Basic Wages and Compensation between Men and Women	Omitted
GRI 406: Anti-Discrimination 2016	406-1	Incidents of Discrimination and Corrective Actions Taken	Safeguarding Employee Rights
GRI 407: Freedom of Association and Collective Bargaining 2016	407-1	Points of Operation and Providers Where the Right to Freedom of Association and Collective Bargaining May Be at Risk	Omitted
GRI 408: Child Labor 2016	408-1	Operating sites and suppliers at risk for significant incidents of child labor	Safeguarding Employee Rights
GRI 409: Forced or Compulsory Labor 2016	409-1	Operating sites and suppliers with significant risk of forced or compulsory labor incidents	Safeguarding Employee Rights
GRI 410. Security Practices 2016	410-1	Security personnel trained in human rights policies or procedures	Omitted
GRI 411. Rights of Aboriginal Peoples 2016	411-1	Incidents involving violations of Aboriginal rights	Omitted
GRI 413: Local Communities 2016	413-1	Operational sites with local community engagement, impact assessment and development plans	Actively Contributing to Public Welfare and Charity
	413-2	Operational sites with actual or potential significant negative impacts on local communities	Actively Contributing to Public Welfare and Charity
GRI 414: Supplier Social Assessment 2016	414-1	New suppliers screened using social criteria	Building a Responsible Value Chain
	414-2	Negative Social Impacts of Supply Chains and Actions Taken	Building a Responsible Value Chain
GRI 415. Public Policy 2016	415-1	Political donations	Omitted
GRI 416: Client Health and Safety 2016	416-1	Assessing the Health and Safety Impacts of Product and Service Categories	Continuous Improvement of Customer Service Capacities
	416-2	Violations Involving Health and Safety Impacts of Products and Services	None
GRI 417: Marketing and Labeling 2016	417-1	Requirements for product and service information and labeling	Continous Evolution: Customer-Centric and Win by Innovation
	417-2	Violations Involving Product and Service Information and Labeling	None
	417-3	Violations Involving Marketing Communications	None
GRI 418: Customer Privacy 2016	418-1	Substantiated Complaints Involving Violations of Customer Privacy and Loss of Customer Data	None

SASB Index Table

Dimension	Issue	Quantitative Indicator	Location
Environment	Environmental footprint of hardware infrastructure	• Total energy consumption • Percentage of grid electricity • Percentage of renewable energy	ESG Key Performance
		• Total water withdrawal • Total water consumption, % of areas with high or very high baseline water pressure	ESG Key Performance
		Discuss strategic planning for incorporating environmental considerations into data center needs	Peaceful Coexistence with Nature: Green Digital Infrastructure Contributes to Global Net-Zero Target
Social Capital	Data Privacy and Freedom of Expression	Description of policies and practices related to behavioral advertising and user privacy	Continous Evolution: Customer-Centric and Win by Innovation
		Number of users whose information is used for secondary purposes	Continous Evolution: Customer-Centric and Win by Innovation
		Total economic damages resulting from lawsuits related to user privacy	Continous Evolution: Customer-Centric and Win by Innovation
		• Number of law enforcement requests for user information • Number of users whose information was requested • Percentage of disclosures resulting in	ESG Key Performance
		List of countries where core products or services are subject to government-required monitoring, blocking, content filtering or censorship	Not Applicable
Social Capital	Data Security	• Number of data breaches • Percentage involving personally identifiable information (PII) • Number of users affected	Continous Evolution: Customer-Centric and Win by Innovation
		Description of methods to identify and address data security risks, including use of third-party cybersecurity standards	Continous Evolution: Customer-Centric and Win by Innovation
Human Capital	Recruit and manage a global, diverse and skilled workforce	• Percentage of expatriate employees and • Percentage of overseas employees	ESG Key Performance
		Percentage of employee engagement	ESG Key Performance
		• Management • Percentage of technical staff and Gender and Race/ Ethnicity Representation of All Other Employees	ESG Key Performance
Leadership and Governance	Intellectual Property Protection and Competitive Behavior	Total economic losses from lawsuits related to anticompetitive behavior regulations	ESG Key Performance
	Managing systemic risk from technology disruptions	• Performance issues and • Service disruptions • Total customer downtime	Continous Evolution: Customer-Centric and Win by Innovation
		Description of business continuity risks associated with operational disruptions	Continous Evolution: Customer-Centric and Win by Innovation

Independent Assurance Statement

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Introduction

TÜV Rheinland (Shanghai) Co., Ltd., a member of TÜV Rheinland Group (hereinafter "TÜV Rheinland" or "We"), was entrusted by Beijing Hoyinn Technologys Co., Ltd. (hereinafter "Hoyinn" or "the Company") to conduct an independent third-party assurance of Hoyinn 2024 Sustainability Report (hereinafter "the Report"). The report disclosed sustainability information for the fiscal year 2024 (1 January 2024 to 31 December 2024) of Hoyinn.

Responsibilities

Hoyinn is not only responsible for the preparation of sustainability report and the collection and submission of sustainability information in accordance with applicable reporting standards but also has the obligation to implement and maintain effective internal control of information and data to support the report compilation process.

TÜV Rheinland is a global service provider that provides CSR and sustainability services in more than 65 countries, with experienced and technical expertise in the areas of environment, CSR, sustainability and stakeholder engagement. TÜV Rheinland Assurance team follows the TÜV Rheinland Global Business Ethics Compliance Policy and Procedures, covering the principles of integrity compliance and conflict of interest. Therefore, our assurance services are based on the principles of independence and impartiality, and we do not participate in the writing and preparation of the report of Hoyinn. It is the duty of TÜV Rheinland to carry out independent assurance in accordance with the assurance agreement and the agreed scope of assurance work, and to make independent and impartial judgments on sustainability reporting.

Assurance Standard

TÜV Rheinland undertook assurance work for the sustainability information disclosed in sustainability report of Hoyinn in accordance with the AccountAbility AA1000 Assurance Standard v3 (AA1000AS v3), Type 1 and Moderate level.

Assurance Objectives

The purpose of the assurance was to provide management of Hoyinn, and stakeholders concerned with the company's sustainability information and performance with an independent view of the assurance, including assessment of whether the content of the report adhered to the AA1000AP (2018) Assurance Principles (including inclusivity, materiality, responsiveness and impact), and verification of sustainability information disclosure.

Assurance Criteria

The following assessment criteria were used in undertaking the work:

- Global Sustainability Standards Board (GSSB) Sustainability Reporting Standards (GRI Standards)
- Sustainability Accounting Standards Board Standard (SASB)
- United Nations Sustainable Development Goals (UN SDGs)
- International Sustainability Standards Board (ISSB) IFRS Sustainability Disclosure Standard 2 – Climate- related Disclosures
- Ministry of Finance and Other Ministries and Commissions "Corporate Sustainability Disclosure Standards- Basic Standards (Trial)"
- Adherence to the AA1000 AP AccountAbility Principles, i.e., *Inclusivity, Materiality, Responsiveness, and Impact*

Methodology

Our assurance activities and procedures include:

- Inquiring management and those personnel responsible for collecting and aggregating sustainability performance information to understand the management processes, systems, and controls for sustainability performance information.
- Reviewing and assessing the availability, adequacy, and relevance of performance information based on sampling principles.
- Applying analysis program to assess the accuracy of the information available for performance data.
- Collecting and examining the supporting evidence of available performance information to assess the extent to which the relevant evidence and information related to the scope of the assurance in the sustainability report supports and adheres to the AA1000AP AccountAbility Principles.
- Reporting assurance observations or recommendations to give the company's management an opportunity to correct errors before the assurance process is completed.

Limitations

TÜV Rheinland planned and executed the verification in accordance with the scope of the assurance agreed upon in order to obtain all the information, evidence and necessary explanations to provide the basis for the conclusion of the assurance in accordance with the moderate level of AA1000AS v3.

The information and performance data relating to the assurance is limited to the disclosure of the contents of this report. Our assurance work did not include financial report and its financial data, as well as other information not related to the topic of sustainability.

Conclusions

Based on the above assurance procedures and methodology performed and the evidence obtained, we conclude that there are no instances or information that would be contrary to the following statements:

- 2024 Sustainability Report of Hoyinn and its contents are in adherence to the AA1000AP AccountAbility Principles.
- Hoyinn has implemented related management processes and systems to collect and aggregate key performance data related to material issues within the reporting boundary.

TÜV Rheinland shall not bear any liability or responsibility to a third party for perception and decision on Hoyinn based on this Assurance Statement.

Adherence to the AA1000AP AccountAbility Principles

Inclusivity: The key stakeholders identified by Hoyinn included governments and regulators, shareholders and investors, customers, suppliers and partners, company management and employees, as well as the community and the public. The report disclosed issues of concern to various stakeholder groups and communication channels. We recommend that Hoyinn systematically evaluate and measure the effectiveness of stakeholder engagement and the impact on corporate sustainability management decisions.

Materiality: Hoyinn adopted a "Four-Step Approach" to implement a double materiality analysis process, including prioritizing issues based on analysis of stakeholder opinions and industry trends. The double materiality issues revealed by the issue matrix includes, but are not limited to, products quality and safety, information security and privacy protection, customer rights protection, innovation-driven, energy use, supply chain management, etc. The relevant topics are in line with the characteristics of the data centre industry (such as PUE management, green power application, supply chain resilience, etc.).

Responsiveness: Hoyinn's communication methods with its key stakeholders included government regulatory communication, customer service and satisfaction surveys, supplier conferences, employee training, grievance and reporting mechanisms, industry exchanges, community welfare projects, etc. The report disclosed the company's responses to issues of concern to stakeholders, such as the establishment of a mechanism to address customer feedback.

The report disclosed data on key performance indicators covering greenhouse gas emissions, water stewardship, employee hiring, health and safety, suppliers, and more. We recommend that Hoyinn continue to improve its target management in its own sustainable development areas (especially circular economy, energy management, and waste) based on the United Nations Sustainable Development Goals (SDGs).

Impact: Hoyinn focused on risk management in sustainable development areas such as environment, climate, and compliance, and combined operation management and internal control systems to control related risks. The report disclosed an analysis of the impact of material issues, as well as a specific analysis of climate change risks and opportunities. Evidence showed that in 2024, the company built a data platform for energy and carbon management systems to facilitate relevant data analysis (such as water resources, comprehensive energy consumption, green electricity use, etc.) and emission reduction action planning.

Daniel Pan
Technical Manager of Corporate Sustainability Services
TÜV Rheinland (Shanghai) Co., Ltd
Shanghai, China, 21 July 2025

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