

# 2024 SUSTAINABILITY REPORT

New Hope Liuhe Co., Ltd. 股票代码: 000876.SZ



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# Message from the Chair Upholding Unwavering Responsibility to Embrace New-Era Challenges



The year 2024 is a pivotal milestone in achieving the goals of China's 14th Five-Year Plan. The steady development of new quality productive forces has become a major driver of the country's economic transformation, helping to steer the national economy toward higher quality, greater efficiency, enhanced equity, improved sustainability, and stronger security. At this pivotal moment, we remain true to our corporate mission of "benefiting farmers and serving consumers." We are committed to embedding sustainability more deeply into every facet of business decision-making and operational management, working hand in hand with stakeholders across the value chain to cultivate a resilient ecosystem for sustainable development and generate integrated economic, environmental, and social value for society.

# Steady progress is our firm belief in laying a solid foundation

for long-term development. In the face of an increasingly complex external environment, we have integrated sustainability into our corporate culture, development strategy, and risk management framework. We continue to explore the development of a sound. effective corporate governance system with New Hope characteristics. We uphold the Board's overall leadership in ESG and strive to enhance the independence and professionalism of the Board's decisionmaking in accordance with the law, supporting the Company's healthy development and high-quality, stable growth through sound corporate governance. We adhere to business ethics and maintain a fair and transparent market order. Through collaboration with stakeholders, we strive to create a sustainable future in economic development and business practices.

#### Quality is the solid footprint of our steadfast commitment to our

original mission. We remain focused on technological innovation centered on our industries and products. In 2024, we were approved to establish a postdoctoral research station and actively applied for the establishment of the National Feed Grain Technology Innovation Center. Our biological breeding efforts achieved key breakthroughs, with multiple core technologies now independently developed and fully controllable. Innovation continues to be a vital driving force, enabling us to deliver safer, more nutritious, and healthier products. We leverage digitalization to enhance quality and efficiency, strictly adhere to guality control standards, and steadily expand our antibioticfree certification. Our shipments of live pigs to Hong Kong are

delivered same-day with high reliability. In 2024, we recorded zero product recalls or adverse product events. With superior products and services, we continually enhance the sense of gain, happiness, and security for our customers and consumers.

Lucid waters and lush mountains embody our responsibility to build a more beautiful China. We adhere to the development concept that "lucid waters and lush mountains are invaluable assets,"and view the relationship between economic development and environmental protection from a scientific perspective. We vigorously promote a circular

agriculture model to reduce the environmental impact of livestock waste. In 2024, we produced 104,800 tons of fermented organic fertilizer, recycled 15.75 million tons of treated water for farmland use, and harvested 2.58 million kilograms of fresh fruits and vegetables, resulting in a carbon sequestration of approximately 94,500 tons of CO<sub>2</sub> equivalent. We continue to make efficient use of raw grain, feed, and energy through improved production management and technological upgrades. In total, 667,300 tons of grain were conserved through scientific measures. demonstrating our commitment to safeguarding food security and actively addressing climate change. In the process of green transformation, we have achieved both qualitative and quantitative growth, contributing to the harmonious coexistence of humanity and nature.

#### Our commitment to people's well-being reflects the essence of our

social responsibility. As we look back on 30 years of dedication to the Guangcai Program, we continue to serve as a trusted force in poverty alleviation. In support of China's rural revitalization strategy, we have pursued a holistic model that combines industrial investment, technical support, talent development, and job creation. In 2024 alone, this approach helped contract farmers increase their earnings by over RMB 3 billion through pig farming. We also provided services to more than 212,700 small and medium-sized agricultural enterprises, contributing corporate strength toward the vision of common prosperity. We place great importance on talent development and strive to foster an inclusive, equitable, and harmonious workplace environment for our employees. We extend care to our employees through initiatives such as Wonderland of New Hope Liuhe and the Good Mutual Assistance Fund, and offer training programs for management and professional roles, including reserve cadres and veterinarians, to support their growth and career development. During the devastation caused by a super typhoon in Southeast Asia, the Company's branches in the Philippines, Vietnam, and Bangladesh assisted affected farmers in getting back to work and rebuilding their lives. Domestically, the Hope and Wish Plan fulfilled the wishes of students for the 8th consecutive year, and the poverty-relief pig farm in the deep mountains celebrated its 6th year of delivering dividends. The Warm Winter Campaign entered its 11th year in Xizang, once again bringing hope and warmth to remote villages on the plateau.

Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, New Hope Liuhe will continue to align its future development with national strategies and actively respond to the evolving industrial landscape shaped by emerging technologies and new global dynamics. Embracing the wartime spirit of "stand firm in belief, endure with passion," we will empower our people and strengthen collaboration across the entire value chain to build a deeply integrated community of shared destiny. With an unwavering mission, remarkable resilience, and a steadfast sense of responsibility cultivated over the past 43 years, we stand ready to embrace the opportunities and challenges of a new era.

# About Us

New Hope Liuhe Co., Ltd. (SZ.000876), the largest tangible industrial segment of New Hope Group, was listed on the Shenzhen Stock Exchange in 1998. Rooted in the agricultural and animal husbandry sector, the Company focuses on developing feed production, pig breeding, and slaughtering operations. As a key leader in agricultural industrialization, we harness our influence to integrate global resources and establish a safe, healthy food industry value chain. With operations spanning China and 15 other countries, including Vietnam, the Philippines, Indonesia, Singapore, and Egypt, we are committed to fulfilling people's aspirations for a better life.

# **Corporate Culture**

Mission	Profiting farmers and benefiting food consumers	We aim to beco of high-qualit oriented produ
Vision	Becoming a leader in farming and food industries	We endeavor agricultural in healthy food ir continue makir meat products

# **Industry Position**

#### New Hope Group Co., Ltd.

Ranked 378th in the 2024 Fortune Global 500.
Ranked 95th in the 2024 China Top 500 Enterprises.
Ranked 19th in the 2024 China Top 500 Private Enterprises.
Ranked 2nd in the 2024 China Top 500 Agricultural Enterprises.
Ranked 1st in the 2024 Sichuan Top 100 Enterprises.

# **Operating Performance**



come a globally trusted supplier and integrated service provider ty protein and food by offering safe, reliable, and demanducts and services.

r to leverage our influence as a key leading enterprise in ndustrialization, integrate global resources, build a safe and industry chain, support farmers in increasing their income, and ing greater contributions to meeting consumer demand for safe s and promoting social progress and development.

### New Hope Liuhe Co., Ltd.

Ranked 1st among China's Top 20 Agricultural Enterprises in the Feed Industry.

Ranked 2nd among China's Top 20 Agricultural Enterprises in the Animal Husbandry Industry.

Recognized as a Leading Enterprise in the Feed Industry. Listed in the Vitality Top 100 of China's Private Listed Companies Brand Value Ranking.

Recipient of 7 second prizes of the National Science and Technology Progress Award, leading the industry.

Pig output: 16.5249 million heads

# Sustainable Development Management

# **Sustainable Development Governance**

New Hope Liuhe has established a comprehensive three-tier sustainable development management structure led by the Board of Directors. This structure encompasses the supervisory, management, and executive bodies to effectively implement the Company's ESG and sustainable development initiatives. During the reporting period, the Company conducted specialized sustainable development training for middle and senior leadership. The training covered the Shenzhen Stock Exchange's sustainability guidelines, ESG rating benchmarking analysis, and ESG management capability enhancement. This program aimed to improve leadership's understanding of the Company's ESG management strategies and operations, promoting efficient implementation of ESG initiatives. Additionally, the Board of Directors convened special meetings to review and confirm matters related to important ESG issues, materiality assessment of topics, and achievement of ESG objectives.

Organizati	onal Structure	Responsibilities				
The Supervisory Bodies	Board of Directors	The Board approves the Company's medium and long-term development plans, corporate strategy, ESG vision and objectives, ESG planning, and major ESG matters. It also assumes responsibility for their effectiveness.				
	Strategy and Sustainable Development Committee	<ul> <li>This committee guides and reviews the Company's overall ESG philosophy, management performance targets, implementation plans, major projects, and identification and prioritization of ESG issues. It monitors and reviews progress towards goals, provides recommendations for actions needed to achieve objectives, and reports to the Board of Directors.</li> </ul>				
		<ul> <li>The committee reviews and approves the Company's annual sustainability report, ensuring alignment with expectations and requirements of investors, regulators and other stakeholders.</li> </ul>				
The Management Body	ESG Management and Supervisory Group	<ul> <li>This group is led by the Board Secretary, with members comprising senior management from ESG-related functional departments.</li> <li>The group formulates ESG strategy, identifies and manages ESG opportunities and risks. It determines the materiality of ESG matters, incorporates them into operational considerations, sets ESG objectives and plans, and regularly reviews ESG performance.</li> </ul>				
The Executive	ESG Working Group	This group supports the ESG Management and Supervisory Group in executing its responsibilities, including organizing ESG objectives, strategic planning, and annual work plans. It coordinates ESG risk and opportunity assessments and ESG issue identification, develops action plans with various functional departments, branches, and subsidiaries, monitors their progress, and manages ESG- related information disclosure.				
Bodies	Functional Departments/ Branches and Subsidiaries	<ul> <li>These bodies are composed of relevant personnel from ESG-related functional departments, branches, and subsidiaries.</li> <li>They implement specific ESG-related work, develop ESG-specific plans, manage ESG-related indicators, and collect and report ESG information.</li> </ul>				

# Sustainable Development Strategy and Progress

Rooted in our cultural concept of "stand firm in belief, endure with passion," we have formulated the New Hope Liuhe "Tree of Hope" ESG strategy. This strategy guides the integration of ESG principles throughout our business decisions and operations. By strengthening our foundation and driving development, we aim to empower external stakeholders, enhance our risk prevention capabilities and value creation potential, and strive to become a trustworthy force. Our ultimate goal is to collaboratively build, create, and share a hopeful and promising future with all stakeholders.

# **Honors & Recognitions**



2024 Best Practice Case for Listed Companies in Sustainable Development

**China Association for Public Companies** 



China Agricultural Film and Television Center, **Rural Revitalization Empowerment Program** 

# Tree of Hope ESG Strategy

Strategic Key Issues Human Capital Development Deep Roots -ø Strengthening the Foundation **Corporate Governance** and Business Ethics **Product Responsibility** Digitalization and Technological Innovation Sustainable Flourishing Supply 17 PARTNERSHIPS FOR THE DEALS Branches Chain \* - Driving Development 13 🛲 Ecological Farming Climate Change Response Promoting Nutrition Accessibility Lush Leaves 1.00. - External Empowerment Community Engagement and Development





National Business Daily

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Total number of employees: 41,327, with 6,325 new hires. Proportion of women in management positions: 14.12% Average training hours per employee: 28.65

Comprehensive audits conducted: 126 Coverage rate of anti-corruption training for directors and middle and senior management: 100% Sunshine Culture Festival events organized: 24, engaging 3,786 participants

Attendances in quality training: 4,297 Product recall incidents and negative product events: 0 Customer complaint handling rate: 100%

R&D investment: RMB 270.2823 million Scientific and technological innovation platforms maintained at various levels: 79 Cumulative valid patents: 1.426

Total number of qualified suppliers: 4,696 Percentage of suppliers assessed: 100% Number of suppliers that proposed and completed improvement measures: 21

Total investment in environmental protection (excluding depreciation): RMB 152.6553 million Fermented manure fertilizer produced: 104,800 tons; Reclaimed water for irrigation: 15.7532 million tons Biological carbon sequestration through nutrient recycling land: approximately 94,500 tons of  $CO_2$  equivalent

Photovoltaic power generation: 11.7468 million kWh Participated in carbon asset development, providing 182,500 tons of carbon credits, with approximately 160,000 tons pending issuance. Greenhouse gas emission intensity: 11.59 tons of CO<sub>2</sub>

equivalent/RMB 1 million revenue

Launched M-NRC animal vitamin and trace element nutrition standards, introducing the Xiwangxin product series. Received second prize in the Qingdao Science and Technology Progress Award for the functional fiberregulated intestinal health nutrition program. Secured antibiotic-free certification for 60% of pig slaughterhouses.

Established partnerships with over 3,400 family farms across 23 provinces, generating RMB 3 billion in income for farmers Conserved 667,300 tons of grain, equivalent to the yield from 1.33 million mu of land.



2024 Listed Company ESG Value Transmission Award

Easy-board, Value Online

# **Materiality Assessment of ESG Issues**

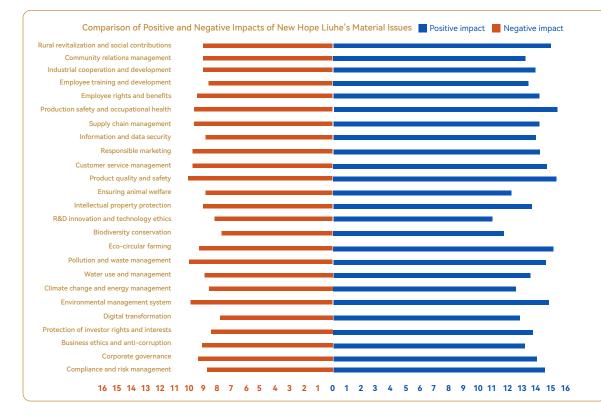
# **Double Materiality analysis**

To accurately identify and assess material issues, New Hope Liuhe conducted a double materiality assessment in 2024 based on sustainability disclosure standards, including the *Self-Regulatory Guidelines No. 17 for Companies Listed on Shenzhen Stock Exchange— Sustainability Report (For Trial Implementation).* The assessment incorporated input from various stakeholders to determine key material issues, which are specifically disclosed and addressed in this report. The Company will continue to enhance its sustainability management practices to better meet stakeholder expectations and concerns.

#### **Dual Materiality Issues Assessment**

Step 1	Identification of ESG Issues	Based on an analysis of internal and external development trends, the Company developed a list of sustainability issues and identified 25 material issues, including both general and industry-specific issues.
Step 2	Stakeholder Communication and Materiality Analysis	Following the principle of double materiality, the Company carried out both impact materiality assessments and financial materiality assessments. Key stakeholders engaged in this process include the Board of Directors, senior management, employees, customers, suppliers, investors, regulatory authorities, the media, and the public.
Step 3	Issue Validation and Reporting	Based on the survey results, a materiality matrix was developed using the dual dimensions of impact materiality and financial materiality. The prioritization of sustainability issues was finalized through a review and validation process conducted by the Strategy and Sustainable Development Committee of the Board of Directors, together with external sustainability experts. Key material issues are prominently disclosed in this report, with a focus on their governance, strategic alignment, risk and opportunity management, as well as relevant indicators and targets.

① The potential positive impacts of each topic were assessed based on two factors: the likelihood of occurrence and the magnitude of impact, considering both the scale and scope of the impact. The potential negative impacts were evaluated using two corresponding factors: the likelihood of occurrence and the severity of impact, taking into account the scale, scope, and the irreversibility of the impact.



② The positive and negative impacts of each issue were integrated into the dimension of impact materiality, and their level of impact was assessed based on the survey results.

high 4	Materiality Matrix	x of N
high Significance of Impact on Economic, Environmental, and Social Sustainability	Production safety and occupational health •         Environmental •         management system         Eco-circular farming •         Pollution and waste •         corporate governance •         Industrial cooperation and development •         Intellectual property protection •         Vater use and management •         Community relations •         Protection of investor •         rights and interests	• Cu • Su • Busin
ocial Sustainability	• Ensuring Animal Welfare R&D innovation and technology ethics • Biodiversity conservation •	
low	Significance of Impact on the Co	mpany'

#### **Risk and Opportunity Analysis of Material Issues**

The Company has conducted a comprehensive analysis of its key sustainability topics, reviewing the scope and duration of their impacts, as well as associated risks and opportunities. Based on the findings, the Company has developed targeted response strategies to effectively mitigate risks and seize opportunities, thereby advancing its long-term sustainable development.



• Product quality and safety	
Customer service management	
•Supply chain management	
• Employee rights and benefits	
Compliance and risk management	
<ul> <li>Information and data security</li> </ul>	
usiness ethics and anti-corruption	
• Employee training and development	
Digital transformation	
Governance dimension	
• Environmental dimension	
Social dimension	
ny's Einancial Performance	higł

Dual	Scope of Impact						
Dual Materiality Issues	Upstream of the Value Chain	Company Operations	Downstream of the Value Chain	Communitie	Impact Duration	Risks and Opportunities	Response Strategy
Product quality and safety	V	V	V	V	Long term	<ul> <li>Establishing a sound quality management system for feed production and pig farming processes helps ensure the delivery of high-quality products to customers and contributes to expanding market share.</li> <li>Quality issues may lead to significant economic losses, including potential</li> </ul>	<ul> <li>Develop a comprehensive food safety management system to cover the entire value chain, including raw material sourcing, production control, quality inspection, product and sales management, and personnel training.</li> <li>Establish a digital quality control platform to enable full-process monitoring and strengthen product traceability.</li> </ul>
						product recalls.	For more information, please refer to the "Stringent Quality and Safety Control" section.
Customer service management		V	V		Long term	<ul> <li>Deterioration in customer relationships may lead to customer attrition, thereby affecting the Company's market performance.</li> <li>Strong customer relationships support</li> </ul>	<ul> <li>Continue to enhance service quality by enriching pre-sale, in-sale, and after-sale service offerings, implement tiered and categorized customer management, and ensure smooth communication channels.</li> <li>Conduct regular customer satisfaction surveys,</li> </ul>
						business growth and create new commercial opportunities	establish a complaint handling process, and respond promptly to customer feedback. For more information, please refer to the "Improving Service Quality" section.
Supply chain management	V	V			Medium to long term	<ul> <li>ESG-related risks in the supply chain may lead to supply chain instability and disrupt the Company's production and operations.</li> <li>Inadequate sustainability due diligence in the supply chain may lead to issues such as human rights violations and negative environmental impacts, potentially damaging the Company's social image and reputation.</li> </ul>	<ul> <li>Improving Service Quarry section.</li> <li>Improve supply chain management by incorporating ESG factors into supplier evaluation and selection.</li> <li>Improve the supply chain risk analysis model and evaluation mechanisms, and consistently identify and monitor risks in the procurement process.</li> <li>Promote sustainable development practices among suppliers.</li> <li>For more information, please refer to the "Supply Chain Management" section.</li> </ul>
Employee rights and benefits		V	V		Short term	<ul> <li>Violations of employees' legitimate rights and human rights may reduce morale and productivity, ultimately affecting the Company's market competitiveness and economic performance.</li> <li>Non-compliance with labor laws and regulations may expose the Company to fines and legal proceedings, damaging its social image.</li> </ul>	<ul> <li>Continuously improve internal management systems to uphold employee rights, covering areas such as ethical conduct, prevention of violence and conflict, prohibition of forced labor, fair employment and diversity, anti-discrimination, working hours, and leave policies.</li> <li>In addition to statutory benefits, provide diverse supplementary benefits, a wide range of employee activities, and timely care and assistance programs to enhance employee well-being and satisfaction.</li> <li>For more information, please refer to the "Employee Rights and Well-being" section.</li> </ul>
Compliance and risk management	V	V	~	V	Short to medium term	<ul> <li>Non-compliance and inadequate risk management may result in financial losses, legal disputes, and reputational risks for the Company.</li> </ul>	<ul> <li>Coordinate risk management under the leadership of the Risk Control Committee under the Board of Directors, establish a "three lines of defense" framework, strengthen special audits, and enhance the standardization and effectiveness of risk control.</li> <li>Strengthen the tax management system and continuously enhance tax compliance capabilities.</li> <li>For more information, please refer to the "Risk and Compliance Management" section.</li> </ul>
Information and data security	V	V	V		Short to medium term	<ul> <li>Information and data breaches may violate relevant laws and regulations, resulting in compliance risks, financial losses such as fines, and infringement of customer rights, thereby undermining customer trust in the Company.</li> <li>Ensuring information and data security helps strengthen the relationship between the Company and its customers.</li> </ul>	<ul> <li>Improve the information security management system, and strengthen data control and cybersecurity protection.</li> <li>Standardize information confidentiality practices and enhance employee awareness of information security.</li> <li>For more information, please refer to the "Information Security and Privacy Protection" section.</li> </ul>

Note: Duration of impact is categorized as short term (1–3 years), medium term (3–5 years), and long term (over 5 years).

# **Stakeholder Communication**

New Hope Liuhe places great importance on communication with its stakeholders. Based on its daily operations, management practices, material issue categories, and various influencing factors, the Company identifies and prioritizes internal and external stakeholders with significant impact. Through diverse communication channels, it actively engages to understand stakeholder expectations and concerns, and responds in a timely and proactive manner to achieve mutual benefit and harmonious development with all parties.

Stakeholders	Issues of Concern	Communication Channels
Government and Regulatory Bodies	<ul> <li>Compliance and risk management</li> <li>Pollution and waste management</li> <li>Water use and management</li> <li>Climate change and energy management</li> <li>Biodiversity conservation</li> <li>Rural revitalization and social contributions</li> <li>Production safety and occupational health</li> <li>Product quality and safety</li> <li>Community relations management</li> </ul>	<ul> <li>Government meetings</li> <li>Special reports</li> <li>On-site visits</li> <li>Information delivery</li> </ul>
Shareholders & Investors	<ul> <li>Corporate governance</li> <li>Protection of investor rights and interests</li> <li>Business ethics and anti-corruption</li> <li>R&amp;D innovation and technology ethics</li> <li>Customer service management</li> </ul>	<ul> <li>Information disclosure</li> <li>General meeting of shareholders</li> <li>Results briefing</li> <li>Investor communication platform</li> <li>Investor research and communication</li> </ul>
Customers	<ul> <li>Product quality and safety</li> <li>Intellectual property protection</li> <li>Responsible marketing</li> <li>Customer service management</li> <li>Environmental management system</li> <li>Compliance and risk management</li> <li>Information and data security</li> </ul>	<ul> <li>Daily operational communication</li> <li>Official communication channels</li> <li>After-sales service and feedback</li> <li>Customer satisfaction survey</li> </ul>
Suppliers & Partners	<ul> <li>Supply chain management</li> <li>Digital transformation</li> <li>Business ethics and anti-corruption</li> <li>Compliance and risk management</li> <li>Industrial cooperation and development</li> <li>Information and data security</li> </ul>	<ul> <li>Strategic cooperation</li> <li>Thematic Training</li> <li>Market research</li> <li>Special meetings</li> <li>Industry exchanges</li> </ul>
Employees	<ul> <li>Employee training and development</li> <li>Employee rights and benefits</li> <li>Production safety and occupational health</li> <li>Compliance and risk management</li> <li>Business ethics and anti-corruption</li> </ul>	<ul> <li>Official WeChat of the Company</li> <li>Workers' Congress</li> <li>Employee activities</li> </ul>
Community and Public	<ul> <li>Product quality and safety</li> <li>Ensuring animal welfare</li> <li>Pollution and waste management</li> <li>Eco-circular farming</li> <li>Biodiversity conservation</li> <li>Rural revitalization and social contributions</li> <li>Community relations management</li> </ul>	<ul> <li>Community communication</li> <li>Media interaction</li> <li>Industry forum</li> <li>Information disclosure</li> <li>Public welfare volunteer activities</li> </ul>

# **Responsibility Focus:** 30 Years of the Guangcai Program - Sustained Hope for Rural Revitalization

From 1994 to 2024, the Guangcai Program, initiated with the participation of New Hope Liuhe, has spanned three decades of development. This social initiative was launched by private entrepreneurs in response to the National "Eight-Seven Poverty Alleviation Plan", bearing the historical mission of "those who become prosperous first helping those who lag behind." As one of the program's original initiators, New Hope Group has consistently upheld the principle of industrial poverty alleviation that balances social responsibility and profitability, seamlessly integrating corporate development with national strategies. Keeping pace with the times, the Company has continuously explored and innovated its approaches-shifting from one-off project-based support to integrated assistance across entire industrial chains; from simple investment to a more comprehensive model combining investment, branding, talent cultivation, and information-sharing; and from isolated individual efforts to joint initiatives with strategic partners. These evolving practices have kept the Guangcai Program vibrant and impactful, standing as a testament to the synergy between private enterprise and national development.





Committee

Preparatory meeting of the China Guangcai Program Promotion The first factory of China's Guangcai Program - Xichang Hope Feed Factory

# Sowing Hope, Igniting the Guangcai Program

In the inaugural year of the Guangcai Program, New Hope Liuhe invested in and constructed the Xichang Hope Feed Factory in Xichang City. Liangshan Prefecture, Sichuan Province. This initiative brought modern agricultural technology to the impoverished Greater Liangshan area. Over three decades, it has empowered more than 20,000 farmers to increase their income and achieve prosperity, with an average annual increase exceeding RMB 3,000 per household. Building on this success, the Group invested RMB 2.6 billion to establish over 40 similar poverty alleviation factories across regions including Xinjiang, Gansu, Ningxia, Sichuan, Chongqing, Guizhou, Hubei, Hunan, Jiangxi, Hainan, Henan, Shanxi, and Shandong. The Guangcai Program spread rapidly, inspiring an increasing number of private entrepreneurs to join the movement.

# Sustainable Development Assistance, Innovating the Guangcai Program

As poverty alleviation efforts entered a new phase, New Hope Liuhe officially launched the 1+1 Precision Poverty Alleviation Plan in 2017. This marked a shift from single project assistance to comprehensive supply chain support. Leveraging the Company's industrial strengths in breeding, feed production, and slaughtering, it developed sophisticated poverty alleviation models such as "3+N" and "4+N." These models fostered collaborative assistance communities with multiple stakeholders, aimed at providing stable income streams to impoverished households.



Breeding farm built in Tekoujiagu Village, nestled deep in the Liangshan Mountains at an altitude of 3,000 meters



At the 2024 dividend distribution ceremony, 182 villagers received dividends totaling RMB 303,500.

Tekouijagu Village in Zhaojue County, Liangshan Prefecture, Sichuan Province, stands as an exemplary project of New Hope Liuhe's "4+N" precision poverty alleviation model. In this context, "4" represents the Zhaojue County People's Government, the Sichuan Branch of the People's Bank of China, New Hope Liuhe, and the village collective economy (cooperative). The "N" symbolizes the registered poor households in the village. Under this model, the government and bank provide funds and subsidized loans to villagers; the Company offers comprehensive services including piglets, feed, technology, and sales, while also bearing disease and market risks. Villagers, in turn, receive dividends from their shares and can earn wages through their labor. The project was completed and commenced operations in April 2018, emerging as one of the most advanced breeding bases in Zhaojue County and the broader Liangshan Prefecture at that time. By the end of 2024, the project had sent 16,000 pigs to market, disbursed RMB 5.17 million in contract breeding fees, distributed RMB 1.39 million in dividends, benefited 1,130 villagers, and trained 12 local technicians, constantly driving economic growth and income improvement for the villagers.

Building on this successful pilot, New Hope Liuhe has propagated the Zhaojue Model of breeding-based poverty alleviation to its branches and subsidiaries nationwide. The Company actively explores a multidimensional poverty alleviation model that integrates "modern agriculture + precision poverty alleviation + ecological environmental protection." In economically challenged counties such as Shibing in Guizhou, Xiajin in Shandong, and Yijun in Shaanxi, New Hope Liuhe has invested in establishing pig farms integrating breeding and promotion. It adopts innovative organizational methods such as "large farms mentoring small farms" and "company + cooperative + family farm" to encourage small and medium-sized specialized cooperatives and family farms within the county to engage in standardized, large-scale, and regulated pig breeding. This approach promotes selfreliance in breeding and contract farming, expanding the scale of operations and achieving mutual benefits. Even after fulfilling its primary poverty alleviation objectives, the initiative continues to generate economic benefits for the local communities. In 2024, the Shibing and Nayong projects in Guizhou managed by New Hope Liuhe distributed substantial dividends of RMB 2.48 million and RMB 605,400, respectively. In the contemporary era, advancing the Guangcai Program increasingly relies on nurturing multi-skilled sustainable developers, i.e., a new generation of farmers. Since 2018, New Hope Liuhe has spearheaded the 100,000 Green Collar New Farmer Training Plan. This initiative harnesses the Company's industrial expertise and commitment to public welfare to cultivate a cohort of new-age farmers who love agriculture, understand technology, and excel in management. This effort significantly contributes to rural talent development and overall rural revitalization. The evolution from the Guangcai industrial poverty alleviation model to the "1+1" precision poverty alleviation model, and further to long-term empowerment through leading industry chains, digital capabilities, and talent cultivation, demonstrates New Hope Liuhe's commitment to transforming poverty alleviation approaches. The Company has shifted from temporary aid provision to sustainable capacity building, emerging as a pivotal force in the ongoing promotion of rural revitalization.

# Preserving the Founding Vision, Perpetuating the Guangcai Program

As China enters its 14th Five-Year Plan period, New Hope Liuhe has proactively embraced the Group's Five-Five Project for rural revitalization. This comprehensive initiative focuses on five key areas; improving rural infrastructure, constructing community facilities, enhancing village cleanliness. beautifying rural environments, and fostering new developments in agriculture and village economies. In 2021, the Company, in partnership with the National School of Development at Peking University, launched the Village Head Course public welfare training initiative. This project aims to cultivate 500 rural grassroots governance leaders over a five-year span. In the four years since its inception, the program has attracted over 3,000 village heads to participate in the selection process, with more than 400 trainees successfully completing the curriculum. Its influence has rippled through over 3,000 villages, establishing a scientific, practical, and replicable model for nurturing rural grassroots management talent. The 30-year milestone of the Guangcai Program not only signifies a remarkable achievement but also heralds a new era of opportunity. Moving forward, New Hope Liuhe is committed to serving as a steadfast practitioner of common prosperity through its unwavering dedication to agricultural development. Driven by a deep-seated passion for industry-led national progress, it will act as a catalyst for rural revitalization and function as an ambassador of the Guangcai Program, embodying an open and inclusive ethos. These endeavors will continue to uphold the Company's core mission of "benefiting farmers and serving consumers."

# Village Head Course Enters Its Fourth Year, Unveiling Seed Plan to Intensively Cultivate Rural Development Pioneers

On November 4, 2024, the 4th iteration of New Hope Liuhe's Village Head Course for rural revitalization commenced in Hengkantou Village, Zhejiang. To further amplify the spirit of the Guangcai Program and maximize the impact of the Village Head Course platform, this training session concurrently launched the Seed Plan project. This initiative offers scholarship for exceptional action plans and participating villages, aiming to establish a robust, long-term follow-up and evaluation mechanism. The program regularly facilitates expert-led guidance and diagnostic sessions, empowering rural development pioneers to tackle practical challenges through innovative approaches. Ultimately, it seeks to explore and forge new pathways and models for rural revitalization and development.



Village Head Course



Answer to Rural Revitalization Lies Beneath Our Feet" to the trainees.



Contributing to the UN 2030 SDGs

1 Effective Governance



lew Hope Liuhe's Philippines Region conducts lean competition



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# **Party Building Efforts**

The year 2024 was pivotal for implementing the spirit of the 20th CPC National Congress and marked the "Quality Focus" year for New Hope Group's Party building initiatives. The Party Committee of New Hope Liuhe diligently implemented new directives for Party building from higher-level Party committees. They conducted in-depth studies to comprehend the spirit of the Third Plenary Session of the 20th CPC Central Committee, Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, and Party discipline education. The committee focused on strengthening branch foundations, enhancing brand influence, unifying organizational power, and empowering development in the Group's Party building actions. They collaboratively developed the "New Hope Red" Party building brand, leveraging high-quality Party building activities to guide and ensure high-quality development

# Strengthening Ideological Conviction

The Company consistently prioritized political theory learning. Through participation in the Group Party Committee's study sessions on the Third Plenary Session of the 20th CPC Central Committee, organizing Party Committee "Three Meetings and One Lecture" (i.e., branch Party members' congress, branch committee meeting, Party group meeting, and Party lecture), and themed Party days, they guided Party members and cadres to deeply study Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, the spirit of the 20th CPC National Congress, and General Secretary Xi Jinping's series of important speeches. This effectively guided Party members and cadres in strengthening their adherence to key Party principles. Specifically, they aim to reinforce the "Four Consciousnesses," which encompass political awareness, holistic perspective, recognition of core leadership, and alignment with Party directives. Additionally, these measures seek to bolster the "Four Confidences," instilling a deep-rooted faith in China's chosen path, theoretical foundations, governing system, and cultural heritage. Finally, they emphasize the "Two Upholds," which involve unwavering support for General Secretary Xi Jinping's central role within both the Party Central Committee and the Party as a whole, as well as steadfast commitment to upholding the authority and unified leadership of the Party Central Committee.

### **Enhancing Organizational Construction**

New Hope Liuhe efficiently completed the organizational re-election of the Company's Party Committee and five directly affiliated Party branches, electing 22 members for the second term. In 2024, adhering strictly to Party member development guidelines and procedures, the New Hope Liuhe Party Committee recruited one new Party member and cultivated two applicants for Party membership. They facilitated the transfer and reception of six Party members and assisted 13 Party members in successfully transferring their Party organization relationships, emphasizing a sense of belonging for Party members and addressing practical matters for each individual.

# **Guiding Practice through Party Building**

In 2024, New Hope Liuhe persisted in deeply integrating Party building work with business operations, incorporating Party building principles throughout the entire business process. They developed outstanding employees into new Party members, encouraged advanced Party members to take on Party building roles, and promoted Party members and cadres to become business leaders, taking the lead and setting examples in their work, thereby effectively driving high-quality business development.

# Successful Convening of New Hope Liuhe's Second Congress of Party Representatives

On October 16, 2024, New Hope Liuhe successfully held its Second Congress of Party Representatives, with 144 Party delegates participating across both online platforms and at the physical venue in Chengdu. The congress conducted elections in accordance with the Regulations on Election of Primary-level CPC Organizations. Through democratic voting, seven comrades were elected as members of the Second New Hope Liuhe Party Committee. Subsequently, the first meeting of the new committee was held to elect the secretary and deputy secretaries and clarify the division of responsibilities among committee members. Effective Party building translates into enhanced productivity. The successful convening of the congress provided strong organizational support for New Hope Liuhe's Party building work and business development, injecting new momentum into the role of Party building in promoting and safeguarding enterprise development.



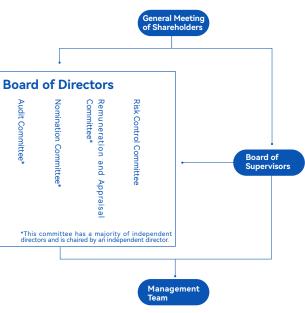
# **Corporate Governance**

#### **Corporate Governance System**

New Hope Liuhe strictly adheres to relevant laws and regulations, including the Company Law of the People's Republic of China, the Securities Law of the People's Republic of China, the Code of Corporate Governance for Listed Companies, the Rules Governing the Listing of Stocks on the Shenzhen Stock Exchange, and the Shenzhen Stock Exchange Self-Regulatory Guidelines No. 1 - Standardized Operations for Companies Listed on the Main Board. The Company has established and standardized a three-tier governance structure. The General Meeting of Shareholders, Board of Directors, Board of Supervisors, and management team rigorously exercise their rights and fulfill their obligations according to the responsibilities granted by the Articles of Association, establishing a governance mechanism with clear power structures, coordinated operations, and mutual checks and balances among the power organ, decision-making body, supervisory body, and executive body. In 2024, the Company updated and revised six key governance documents. including the Articles of Association, Rules of Procedure for the Board of Directors, Detailed Rules for Specialized Board Committees, Working System for Independent Directors Annual Report Working System for Independent Directors, and Working Rules for the Annual Financial Report of the Board's Audit Committee, further enhancing the Company's governance system.

# **Board Effectiveness**

The Board of Directors functions as the Company's primary decision-making body, supported by five specialized committees: the Strategy and Sustainable Development Committee, the Audit Committee, the Nomination Committee, the Remuneration and Appraisal Committee, and the Risk Control Committee. These committees, leveraging their professional expertise, oversee various aspects of the Company's operations and management. During the reporting period, the Company expanded its Board by adding one director, bringing the total membership to nine. This expansion enriches Board discussions and decision-making with a broader range of perspectives and more comprehensive analysis, thereby enhancing the quality of decisions and enabling the Board to fulfill its responsibilities more effectively. To enhance the Board's Audit Committee's oversight of annual financial report preparation and disclosure, the Company implemented the Working Rules for the Annual Financial Report of the Board's Audit Committee. This measure ensures the Audit Committee's diligent fulfillment of its responsibilities regarding the annual financial report, guaranteeing the truthfulness, completeness, and accuracy of the Company's financial reporting. The Company convenes Board and specialized committee meetings in compliance with legal requirements, strictly adhering to regulations governing voting matters and procedures, thus safeguarding the legal rights



	Indicator	2024
ber of E ighout t	Board of Directors meetings held he year	15*
ber of B Ighout t	oard of Supervisors meetings held he year	9
ber of c through	general meetings of shareholders out the year	4
ber	Resolutions passed by Board of Directors meetings	67
utions	Resolutions passed by Board of Supervisors meetings	24
ed	Resolutions passed by general meetings of shareholders	35

\*Excluding special meetings of independent directors and meetings of specialized Board comm

and interests of both the listed company and its shareholders. Detailed information on Board composition, performance of duties, composition and operational division of specialized committees, shareholder and actual controller status, and related party transactions is available in the New Hope Liuhe Co., Ltd. 2024 Annual Report.

The Company has established a robust Board performance evaluation mechanism. The Remuneration and Appraisal Committee is tasked with reviewing the performance of directors (non-independent directors) and senior management, conducting annual performance appraisals. The evaluation results are linked to various factors including the relevant personnel's duty performance, work capabilities, and the Company's operational status. Furthermore, the Company has implemented internal restraint and accountability mechanisms. The Risk Control Committee is responsible for economic or administrative accountability of directors, supervisors, and senior management in cases of dereliction of duty.



Board Specialized Committee	Number of Meetings Held	Board Member Attendance Rate
Audit Committee	4	100%
Strategy and Sustainable Development Committee	1	100%
Remuneration and Appraisal Committee	2	100%
Nomination Committee	3	100%
Risk Control Committee	1	100%

# **Board Independence**

The Company fully recognizes the independent director system as a crucial safeguard for promoting standardized operations of listed companies, maintaining their overall interests, and protecting the legal rights of minority investors. New Hope Liuhe strictly adheres to the requirements of the *Measures for the Administration of Independent Directors of Listed Companies*, implementing the *Working System for Independent Directors* and the *Annual Report Working System for Independent Directors*. The Company rigorously follows the qualification requirements and appointment procedures specified in the *Working System for Independent Directors* to select and appoint qualified experts and authoritative figures as independent directors, fully leveraging their role in corporate governance.

The Company currently has three independent directors, comprising 33.33% of the Board. None of these directors hold company shares in any form. Independent directors do not directly participate in company management, thereby reducing potential conflicts of interest and exercising their balancing role effectively. Independent directors constitute the majority and serve as chairs in the Board's Audit Committee, Nomination Committee, and Remuneration and Appraisal Committee, ensuring objectivity and fairness in Board decision-making. The Company provides independent directors with comprehensive working conditions and personnel support to fulfill their responsibilities. It also ensures their right to information by regularly briefing them on company operations and providing necessary materials, ensuring they have sufficient resources and access to professional opinions when performing their duties.

During their tenure, independent directors have diligently fulfilled their responsibilities, actively participating in various Board activities and effectively performing supervisory and strategic decision-making functions. In 2024, independent directors attended four specialized meetings, focusing on reviewing major financial matters, compliance of related party transactions, and internal control mechanisms. They leveraged their professional expertise to provide independent opinions, effectively safeguarding the interests of minority shareholders. Additionally, they participated in three strategic-themed seminars, engaging in in-depth discussions on industry development trends, business transformation and upgrade strategies, and medium- to long-term development plans, offering forward-looking suggestions for the Board's strategic decision-making. Furthermore, the independent director team conducted on-site visits to the Company's production bases and R&D centers. Through field research, discussions with management, and analysis of operational data, they gained comprehensive insights into production and operational dynamics. Drawing on their industry experience, they provided and operational deficiency.



#### **Composition of Board Specialized Committees**

Board Specialized Committee	Number of Independent Directors	Number of Non-Executive Directors	Number of Executive Directors
Audit Committee*	2	1	0
Strategy and Sustainable Development Committee	2	2	2
Remuneration and Appraisal Committee*	3	1	1
Nomination Committee*	2	0	1
Risk Control Committee	2	1	2

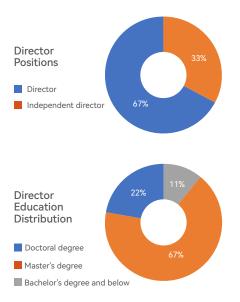
Note: \* indicates that an independent director serves as the committee chair.

# **Board Skills and Diversity**

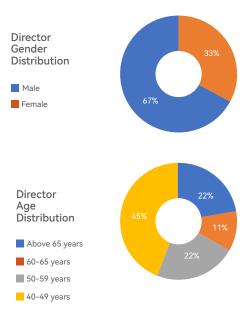
Enhancing Board diversity is a cornerstone of effective corporate governance and is essential for balanced, inclusive decision-making. The Company actively cultivates a diverse Board. Selection procedures for directors and senior management are clearly outlined in the *Articles of Association, Rules of Procedure for the Board of Directors*, and *Detailed Rules for Specialized Board Committees*. All appointments adhere to meritocratic principles while meeting qualification requirements, aiming to optimize Board member diversity.

The current Board comprises nine directors, with ages spanning from those born in the 1950s to the 1980s. They bring diverse professional backgrounds, offering extensive theoretical knowledge and practical experience in fields such as economics, business administration, accounting, animal husbandry, and mechanical manufacturing. This diversity enables them to provide expert guidance and forward-looking advice on financial decisions, compliance operations, risk prevention and control, and strategic development planning. As the Audit Committee convener, independent director Ms. Cai Manli is a Certified Public Accountant of China, Certified Tax Agent of China, and International Certified Business Valuation Analyst. Her previous role at the China Securities Regulatory Commission (CSRC) involved listed company supervision, where she led the accounting and valuation group in the Listed Company Supervision Department. Her rich financial background and experience contribute to effective internal financial management and risk control implementation.

	Name	Gender	Name Gender Tenure		Professional Capabilities		
Position	Name	Gender	Tenure	Industry Experience	Risk Management	Economics & Law	
Chairperson	Liu Chang	Female	November 29, 2011	$\checkmark$	$\checkmark$		
Executive Chairperson, President	Zhang Minggui	Male	September 24, 2020	$\checkmark$	$\checkmark$		
Director	Liu Yonghao	Male	February 26, 1998	$\checkmark$	$\checkmark$		
Director	Wang Hang	Male	November 29, 2011	$\checkmark$		$\checkmark$	
Director	Li Jianxiong	Male	May 26, 2016		$\checkmark$	$\checkmark$	
Director	Zhou Boping	Male	May 30, 2024		$\checkmark$		
Independent Director	Wang Jiafen	Female	May 31, 2022	$\checkmark$	$\checkmark$		
Independent Director	Peng Long	Male	May 30, 2024		$\checkmark$		
Independent Director	Cai Manli	Female	June 6, 2019			V	



To constantly enhance governance compliance, the Company's directors, supervisors, and senior management actively engage in training on corporate governance and diligent performance of duties. These sessions are organized by government departments, the CSRC, stock exchanges, and relevant associations. Notable examples include the training on "Strengthening Capital Market Integrity Construction and Cultivating Anti-fraud Compliance Awareness" for controlling shareholders, actual controllers, directors, supervisors, and senior management of listed companies in Sichuan Province in 2024. Additional programs cover independent director reform and follow-up training for listed company independent directors. During the reporting period, the Company recorded a cumulative total of 54 attendances in these training sessions by its directors, supervisors, and senior management.



# **Director and Senior Management Compensation Policy**

Compensation for Board members and senior management is a critical component of corporate governance. The Remuneration and Appraisal Committee formulates and reviews remuneration policies and plans based on areas of responsibility, primary duties, business innovation capabilities, and work performance. These align with the Company's Employee Compensation Management Trial Measures and relevant systems and regulations of the Board's Remuneration and Appraisal Committee. All policies require Board approval and subsequent ratification by the general meetings of shareholders before implementation, with full transparency through information disclosure.

The Company conducts comprehensive evaluations based on annual operating performance, job responsibilities, and the achievement of annual work objectives. Compensation and performance bonuses for senior management are determined by these evaluation results, promoting enhanced responsibility fulfillment. The Nomination Committee and the Remuneration and Appraisal Committee oversee senior management nominations and review their work capabilities, performance, and goal achievement, determining annual compensation packages and year-end bonuses. Additionally, the Company has implemented a multi-tiered assessment and incentive mechanism to further boost managerial enthusiasm and creativity, driving continuous corporate performance growth.

#### **Director and Senior Management Ownership**

Name	Position	Direct Shareholding (Shares)
Liu Chang	Chairperson	2,155,452
Zhang Minggui	Executive Chairperson, President	2,000,000
Liu Yonghao	Director	892,320
Wang Hang	Director	60,000
Li Jianxiong	Director	0
Zhou Boping	Director	100
Tao Yuling	Executive President	1,312,500
Yan Qiubo	Vice President	125,000
Li Shuang	Vice President	900,000
Chen Xingyao	Vice President, CFO	1,200,000
Wang Pusong	Investment Development Director	900,000
Cai Manli	Independent Director	10,000
Lan Jia	Board Secretary, Chief Strategy Investment Officer	1,000,000
Pang Yundong	Supervisor	72,000

### **Investor Rights Protection**

New Hope Liuhe places paramount importance on protecting investor rights. The Company strictly adheres to the CSRC's Rules for General Meetings of Shareholders of Listed Companies and internal regulations, including the Information Disclosure System, Investor Relations Management System, and Significant Information Internal Reporting System. These measures ensure timely, accurate, and comprehensive information disclosure. During the reporting period, the Company maintained open communication with investors through various channels, including regular reports, ad hoc announcements, on-site research, investor hotlines, and the cninfo.com platform, thereby safeguarding investors' right to information and participation in major company events.

#### Safeguarding Minority Investor Rights

To fully protect minority investor rights, New Hope Liuhe's stipulates in its Articles of Association that when the general meetings of shareholders deliberate on significant matters affecting minority investors' interests, their votes should be tallied separately, with results promptly disclosed. The Company particularly emphasizes creating opportunities for minority investor engagement. General meetings of shareholders employ a combination of on-site and online voting, leveraging modern information technology to facilitate minority investor participation. The meeting agenda includes a dedicated Q&A session for minority investors, actively soliciting their opinions and suggestions.

The Company explicitly states in its Working System for Independent Directors that independent directors owe fiduciary and due diligence duties to the Company and all shareholders. In addition to the powers conferred by the Company Law of the People's Republic of China and other relevant legislation, the Company grants independent directors special authority to express autonomous opinions on matters that may potentially harm the Company or minority shareholders' interests. Maintaining substantive communication with minority shareholders is also considered one of the independent directors' key responsibilities.

#### **Diversified Communication Channels**

The Company has established multifaceted communication channels, including general meetings of shareholders, online voting, on-site research, online platform Q&As, telephone inquiries, and performance briefings. These channels foster investor understanding and recognition of the Company, establish constructive interactions between the Company and investors, enhance corporate governance, and effectively protect investors' legal rights, particularly those of minority shareholders.

Indicator	2024
Regular reports and ad hoc announcements disclosed	124
Investor communication events held	15
Attendance in investor communication events	1,156
Total interactions with investors across all channels	Over 3,000



On-site research of Mianyang New Hope by the China Association for Public Companies

# **Risk and Compliance Management**

New Hope Liuhe has established a comprehensive internal control and risk management system to strengthen and standardize internal management, enhance internal control effectiveness, and create a favorable internal environment for enterprise risk control and efficient operations, thereby ensuring healthy and sustainable development.

Governance	Strategy and Management Approach
<ul> <li>The Board of Directors has established a Risk Control Committee with a subordinate Risk Control Taskforce responsible for decision-making and oversight of major company-wide risk management matters.</li> <li>Multiple relevant systems have been formulated and implemented, including <i>the Management System for Internal Controls</i> and <i>Management Measures for Accountability (Trial)</i>.</li> </ul>	<ul> <li>Establish a "three lines of defense" risk control system based on the Company's business realities and external circumstances.</li> <li>Conduct specialized risk management training on key risk areas such as anti-corruption, production safety, and environmental protection.</li> <li>Promote the development of a digital audit system to enhance internal data analysis capabilities and strengthen audit inspections.</li> </ul>
Impact, Risk, and Opportunity Management	Indicators and Targets
• The Audit and Supervision Department collaborates with risk control units across Sectors to compile monthly audit and supervision reports for	<ul> <li>Develop annual audit work plans and conduct audits of the headquarters and wholly-owned and controlled subsidiaries, covering</li> </ul>

### **Risk Management**

New Hope Liuhe rigorously adheres to laws and regulations, including the *Company Law of the People's Republic of China*, the *Basic Internal Control Norms for Enterprises*, and the *Application Guidelines for Enterprise Internal Control*. The Company consistently establishes and refines relevant regulatory systems, such as the *Management System for Internal Controls* and *Management Measures for Accountability (Trial)*. A robust "three lines of defense" risk control system has been implemented to foster a favorable internal environment for risk control and efficient operations, providing reliable safeguards for stable, long-term development.

#### **Risk Management System**

The Board of Directors has established a Risk Control Committee with a subordinate Risk Control Taskforce. This taskforce is responsible for decisionmaking and oversight of major company-wide risk management matters. It also promotes the establishment of three lines of defense for risk control at the operational level, effectively preventing and mitigating direct risks that may cause losses to the Company, while creating additional value through effective management of opportunity risks.

First Line of Defense	Business operating units are responsible for implementing internal risk control measures, identifying, assessing, and responding to risks in daily operations.
Second Line of Defense	Risk control departments of business operating units and functional departments at the headquarters are responsible for risk internal control design and supervising the work of the first line of defense.
Third Line of Defense	The Audit and Supervision Department is responsible for post-event audits and internal accountability. Cases involving criminal offenses are referred to judicial authorities, ensuring the effectiveness of the risk management and internal control system.



Convened 13 Risk Control Committee meetings.

#### **Risk Identification and Control**

Through industry benchmarking and in conjunction with the Company's strategic management and operational conditions, we regularly review and analyze risk points facing the business, conduct risk assessments, and formulate improvement measures based on assessment results to further enhance the Company's risk prevention and control capabilities.

Major Risks	Major Risks Risk Description Response Strategies	
International Supply Chain and Raw Material Price Fluctuation Risk	China's high import ratio of soybeans and corn may lead to feed shortages and cost surges if international geopolitical tensions rise or trade barriers strengthen, threatening livestock industry profits.	<ul> <li>Increase operational efficiency and reduce management costs to enhance market competitiveness.</li> <li>Diversify raw material procurement channels and explore domestic alternative solutions (e.g., drought- resistant corn varieties).</li> </ul>
Exchange Rate and Logistics Risk	Feed export expansion (e.g., Southeast Asian market) may face supply chain disruptions due to exchange rate fluctuations, cross-border logistics interruptions, or policy restrictions.	<ul> <li>Develop overseas supply chains to hedge geopolitica risks.</li> </ul>

### **Internal Control and Compliance Management**

The Company has established a comprehensive internal risk control system, clearly defining management responsibilities, authorization, and approval processes for key control points in relevant policies, and specifying implementation procedures for critical business processes.

**Implementing System Development.** The Company constantly establishes and improves its internal regulations such as the *Food Safety Red Line Management Rules, Interim Management Measures for Feed Quality and Safety Audits,* and *Management Measures for Livestock and Poultry Breeding Quality and Safety Audits* to enhance the standardization and effectiveness of internal control.

**Improving Audit Efficiency.** In 2024, the Audit and Supervision Department was restructured into four centers: the Operations Audit Center, the Supervision Center, the Risk and Data Center, and the Engineering Audit Center. Internal control management manuals were developed for different modules, refining compliance management work. The Audit Data Center has established a prototype for digital auditing, enhancing internal data analysis capabilities and providing data support for audit practices.

**Conducting Special Audits.** The Company conducts audits on its Pig BG, Feed BU, and Overseas BU, primarily including performance audits, engineering settlement reviews, and special audits. 10% of these engineering audits are completed by external auditors, with the remainder conducted by the Audit and Supervision Department. In 2024, the Company prevented losses of RMB 85.60 million, recovered losses of RMB 47.86 million, held 56 individuals accountable, initiated 7 cases, and took criminal measures against 8 individuals.



Conducted 27 performance audits, 27 engineering audits, 29 supervisory audits, and 43 other special audits.

### **Tax Management**

New Hope Liuhe strictly complies with laws, regulations and relevant systems such as the *Enterprise Income Tax Law of the People's Republic of China* and the *Individual Income Tax Law of the People's Republic of China*. The Company consistently establishes and improves its tax management system, focusing on tax risk management and fulfilling corporate tax obligations while providing support for market expansion, product R&D, M&As and reorganizations, and other business activities. During the reporting period, the Company did not engage in any significant tax violations and was not involved in any major litigation or arbitration related to taxation.

# KEY PERFORMANCE

Indicator	2024	2023
Profit before tax (million RMB)	483.4706	-681.8108
Reported tax amount (million RMB)	469.8421	541.0741
Effective tax rate	97.18%	-79.36%
Cash tax paid (million RMB)	650.1827	758.1318
Cash tax rate	134.48%	-111.19%

#### **Tax Management System and Policies**

The Finance Department has established a dedicated Tax Management Center staffed by five full-time professionals. This center is responsible for developing and implementing a tax strategy focused on compliance management, tax burden optimization, and business support. It oversees the Company's tax-related matters, aligning with the overall business strategy and operational activities to provide robust tax support for market expansion, product R&D, M&As and reorganizations, and other business initiatives. This approach ensures that tax management contributes positively to the Company's business growth and sustainable development. The head of the Tax Management Center is responsible for formulating and executing the overall tax strategy, as well as coordinating relationships with external tax authorities and internal departments. Financial personnel at branch and subsidiary companies handle specific tax declarations and tax-related matters on a part-time basis. The Tax Management Center maintains close communication with the finance departments of branches and subsidiaries, ensuring mutual coordination and support for the smooth operation of the Group's tax activities.

The Company maintains open lines of communication with tax authorities to stay informed about tax policy dynamics and changes in regulatory requirements. We constantly refine our tax management systems, including the *Enterprise Lifecycle Tax Registration Management System, Tax Declaration Management System, Invoice Management System*, and *Tax Accounting System*. These systems clearly define the principles, requirements, and processes for tax compliance, regulating corporate tax behavior at various levels and stages. We regularly update tax operation standards in accordance with domestic and international tax policies to ensure timely and full tax payments by the Company. During the reporting period, we optimized system templates for enterprise income tax final settlement and prepayment, stamp duty, water resource tax, and other taxes, improving form automation rates and enhancing the efficiency and accuracy of the Company's tax filings.



We promise to conduct transfer pricing in accordance with the arm's length principle.

We commit to not using confidential jurisdictions or so-called "tax havens" for tax avoidance.

### **Tax Control and Risk Management**

The Company consistently monitors its tax risk status based on tax policies and through comprehensive tax management systems. We regularly conduct risk assessments on VAT, enterprise income tax, individual income tax, and other areas. Following a process of risk identification, assessment, and response, we implement internal tax self-inspection systems and cross-checks within Sectors. By analyzing corporate tax business processes, financial data, and tax policy implementation, we identify potential tax risk points and determine risk levels based on the likelihood of occurrence and potential impact. For shared risks across sectors, we respond in a timely and coordinated manner. For high-risk issues, immediate countermeasures are taken; for medium- and low-risk issues, we maintain continuous monitoring and respond as appropriate.

Additionally, we regularly conduct tax policy training on individual income tax settlements, enterprise income tax settlements, and other relevant topics. We also provide ad hoc training on invoices, risk operations, new businesses, and new policies. We promptly disseminate new policies and important tax matters throughout the Company, constantly improving the tax literacy and risk identification and response capabilities of our financial personnel. In 2024, we organized four specialized tax training sessions, recording 2,120 attendances.

Risk Type	Risk Description	Response Strategies
VAT Risk	Primarily related to invoices and declarations. Regarding invoices, risks include obtaining falsely issued invoices or issuing non- compliant invoices. The Company has established management systems through the <i>Invoice Management Measures</i> and utilizes information technology tools to mitigate these risks.	<ul> <li>To reduce issuance risks, the Company promotes electronic invoices, actively engages with qualified vendors, and employs automated invoicing systems. Invoice applications are initiated from the financial accounting system to ensure comprehensive and authentic business invoices.</li> <li>To mitigate the risk of obtaining fraudulent invoices, the Company strengthens policy education, clarifies direct responsibilities of business personnel, and enhances accountability of business leaders and financial managers.</li> <li>The shared service center leverages external service providers for automatic invoices, intercepting non-compliant invoices at the source, and reducing the risk of accepting problematic invoices.</li> </ul>
Enterprise Income Tax Risk	Primarily related to the authenticity and reasonableness of costs and expenses.	<ul> <li>Regarding authenticity, the Company enhances collaboration with accounting centers and shared service centers to standardize cost and expense entry vouchers, ensuring consistency from financial to operational levels, and standardizing pre-tax deduction vouchers across business operations.</li> <li>Regarding reasonableness, the Company provides regular training and ongoing guidance on prepaymen and settlement filing procedures, clarifying easily confused items and standardizing declaration filing practices. It also utilizes a tax management system with built-in policy formulas to enhance compliance in area such as deduction standards for business entertainment expenses, advertising costs, etc.</li> </ul>

# **Business Ethics**

New Hope Liuhe conducts its operations with unwavering commitment to compliance, integrity, and honesty. The Company adheres to ethical standards of fairness, trust, and transparency in all business activities. It participates in market competition in accordance with laws and regulations, resolutely opposing any form of commercial bribery, money laundering, monopolistic practices, or unfair competition. Through these efforts, the Company strives to foster a sustainable business environment.

Governance	Strategy and Management Approach		
<ul> <li>The Audit Committee and Risk Control Committee, operating under the Board of Directors, serve as the executive bodies for business ethics and anti-corruption initiatives.</li> <li>The Company has developed comprehensive policy documents, including the <i>Employee Sunshine Commitment, Code of Conduct for Agents, Six Red Lines of Non-permissible Actions</i>, and <i>Management Measures for Accountability (Trial)</i>.</li> </ul>	<ul> <li>Establish and constantly refine anti-corruption mechanisms, including audit-supervision collaboration frameworks, supervision BP systems, business-audit communication protocols, government-enterprise integrity co-construction initiatives, and case tracking procedures.</li> <li>Launch the Sunshine Action, mandating new employees to sign a <i>Sunshine Commitment</i> to reinforce a culture of integrity.</li> <li>Sign <i>Sunshine Cooperation Agreements</i> with suppliers to collectively build an ethical supply chain.</li> </ul>		
Impact, Risk, and Opportunity Management	Indicators and Targets		
<ul> <li>Conduct regular audits on business ethics and anti-corruption matters across production and operations, ensuring comprehensive reviews of all business areas once every three years.</li> </ul>	<ul> <li>Closely monitor key indicators, such as the handling of corruption litigation cases and the recovery of economic losses.</li> <li>Develop robust digital audit models to enhance supervision and audit capabilities.</li> </ul>		

# Anti-Corruption and Anti-Commercial Bribery

New Hope Liuhe steadfastly upholds its anti-corruption standards and systematically promotes integrity governance to foster the Company's robust development and long-term success. In 2024, five corruption litigation cases were concluded, with the involved individuals receiving legal sentences.

#### Management Mechanism

The Audit Committee, operating under the Board of Directors, is responsible for overseeing business ethics and anti-corruption efforts. The Company has implemented a "one department and three centers" structure, led by the Audit and Supervision Department. This structure creates a comprehensive collaboration mechanism among the Supervision Center, Audit Center, and Internal Control Center, aiming to build an anti-corruption compliance system that deters, prevents, and discourages corrupt practices.

During the reporting period, the Company revised and enhanced its Management Measures for Accountability (Trial), designating the Risk Control Committee as the highest authority for accountability. This committee is tasked with determining the fundamental direction and principles of company accountability, clearly defining decision-making bodies, accountability scope, methods, impact periods, and handling degrees, encompassing all employees.

#### Integrity in Business Practices

Online Reporting of Integrity Compliance. The Company strictly prohibits employees from accepting any form of commercial bribery. In instances where refusal is not feasible, they must report and register such occurrences on the Company's internal platform. In 2024, 30,000 potential conflicts of interest were reported, with a 75% completion rate for declarations.

Enhancing Integrity Awareness. The Company conducts comprehensive training programs related to anti-corruption and business ethics to strengthen awareness among directors, management, employees, and suppliers. In 2024, New Hope Liuhe continued its Sunshine Culture Festival, featuring 24 online and offline events centered around themes such as Sunshine Six Expenses, Sunshine Procurement, Sunshine Settlement, Sunshine Compliance, and Sunshine Public Welfare. These events included integrity warning case exhibitions, sunshine exams, interactive games, cartoon exhibitions, business activities, and legal think tanks. A total of 3,786 people participated. Online promotions through the Sunshine New Six subscription account featured Sunshine Cartoons, with 19 articles published, reaching 11,195 readers and achieving full coverage of internal employees and external partners. These initiatives aim to cultivate a clean and fair workplace environment and promote a pervasive culture of integrity.

KEY PERFORMANCE

Coverage rate of anti-corruption training for directors: 100%Total attendance in anti-corruption training for directors: 9 Total hours of anti-corruption training for directors:  ${f 9}$ 

Coverage rate of anti-corruption training for middle and senior management: 100%Total attendance in anti-corruption training for middle and senior management: 2,900Total hours of anti-corruption training for middle and senior management: 5.800

Coverage rate of anti-corruption training for employees: 76%Total attendance in anti-corruption training for employees: 3 786 Total hours of anti-corruption training for employees: 90,864

#### Whistleblowing and Whistleblower Protection

Whistleblowing Management. The Company has developed and rigorously enforces the Whistleblowing Investigation Management Measures which clearly stipulate that employees at all levels and business partners should report fraud and illegal activities truthfully and legitimately. The Audit Committee, operating under the Board of Directors, serves as the governing body for whistleblowing investigations. It is responsible for authorizing, guiding, and constantly overseeing the whistleblowing complaint processes. The Audit and Supervision Department acts as the primary unit managing whistleblowing investigations, coordinating and overseeing all related matters.

Reporting Channels. The Company has established a variety of public reporting channels, including traditional mail, telephone hotlines, email, Feishu questionnaires, WeChat reporting, and WeChat official account messaging. Dedicated personnel are assigned to maintain these channels and register all reported information.

Whistleblower Protection. The Company actively encourages the reporting of corruption incidents. The Whistleblowing Investigation Management Measures specify that named whistleblowers employed by the Company may be eligible for rewards if the reported information is verified as true and reliable and meets specific criteria. Through institutional regulations, the Company ensures strict confidentiality of reported information, case handling status, and whistleblower-related details in daily operations to safeguard the legitimate rights and interests of whistleblowers.

ERFORMANCE

Effective handling rate of valid reports: 100%

REPORTING **CHANNELS:** 

1. Reporting hotline: 028-85953661 2. Reporting mobile: 13981753661 3. Reporting email: tousu@newhope.cn 4. Reporting WeChat: Sunshine New Six

### **Anti-Unfair Competition**

New Hope Liuhe strictly adheres to the Anti-Monopoly Law of the People's Republic of China, the Anti-Unfair Competition Law of the People's Republic of China, the Several Provisions on Prohibiting Infringements upon Trade Secrets, and relevant anti-monopoly and fair competition laws and regulations in countries and regions where it operates. The Company is committed to conducting all business activities in accordance with the principles of fair and free competition. During the reporting period, the Company faced no legal proceedings regarding unfair competition, antitrust, or anti-monopoly practices

Fair Competition	The Company pledges to refrain from making false or misleading statements about competitors in the market, maliciously defaming competitors, illegally collecting competitors' trade secrets or other confidential information, and engaging in illegal activities such as price collusion with industry peers that disrupt market order. We collaborate with peer companies to maintain a fair competitive market environment. On October 18, 2024, we actively participated in the Anti-Monopoly Compliance Lecture special training organized by the State Administration for Market Regulation in conjunction with the Bureau of Animal Husbandry and Veterinary Services of the Ministry of Agriculture and Rural Affairs and the Competition Policy and Assessment Center of the State Administration for Market Regulation. This enhanced our understanding of anti-monopoly laws and regulations. Moving forward, we will mitigate risks through regular compliance audits and rapid response mechanisms, actively promoting healthy corporate development.
Intellectual Property Protection	The Company strictly complies with the <i>Patent Law of the People's Republic of China</i> , the <i>Trademark Law of the People's Republic of China</i> , the <i>Copyright Law of the People's Republic of China</i> , and other relevant laws and regulations. We have established and refined our internal intellectual property management system, delineating the processes for application, maintenance, use, and protection of intellectual property, as well as the responsibilities and authorities of various departments in intellectual property management. In alignment with industry developments, we proactively plan for patent applications and protection in areas such as pig breeding and feed grain conservation to better safeguard our scientific and technological research outcomes while committing to avoiding infringement of others' intellectual property rights.
Trade Secret Protection	In the <i>Six Red Lines of Non-permissible Actions</i> , the Company explicitly prohibits the disclosure of company trade secrets, including but not limited to salary information, confidential information, meeting agenda, training content, and information about criminal cases, civil cases, and administrative accountability. It is strictly forbidden to use company information for personal or others' benefit or convenience.
Anti-Money Laundering	The Company adheres to the <i>Anti-Money Laundering Law of the People's Republic of China</i> , enhancing internal anti-money laundering compliance management to ensure business compliance and maintain financial security. We actively cooperate with law enforcement agencies, regulatory authorities, and the financial industry to combat money laundering activities. We regularly conduct anti-money laundering training to improve employees' awareness and understanding of anti-money laundering work, ensuring accurate implementation of anti-money laundering policies.



Number of unfair competition incidents: ()

# Supply Chain Management

New Hope Liuhe places significant emphasis on the societal and environmental value and impact of upstream and downstream activities within its industrial chain. The Company adheres strictly to relevant national laws and regulations, including the *Law of the People's Republic of China on Invitation and Submission of Bids* and its associated implementation regulations. It is committed to fostering a cooperative environment characterized by respect, equality, and transparency, while actively supporting supplier growth and collaboratively building a responsible supply chain.

Governance	
<ul> <li>Establish a Supplier Management Committee to oversee supplier management, with a dedicated Supplier Management Department responsible for daily execution, coordination, and implementation supervision.</li> <li>Form a Supplier Certification/Review Team to conduct specific assessments for new supplier admission and existing supplier certification.</li> </ul>	•   s k • f a t
Impact, Risk, and Opportunity Management	e
<ul> <li>Develop a comprehensive risk analysis model and risk assessment mechanism, conducting in-depth analysis on risk identification, potential losses, and specific mitigation measures. Formulate response strategies for major risks.</li> </ul>	• E

# Supplier Management System

The Company has designed and implemented a robust supplier performance evaluation system based on internal management standards such as the *Internal Supplier Management System* and *Sourcing and Price Comparison Management System*. This system encompasses work standards and norms for supplier registration, admission review, performance assessment, supplier collaboration, supplier exit, and blacklisting. It also clearly defines the organizational structure and daily operational mechanisms, establishing an efficient and reliable supply chain. The Company highly prioritizes the protection of supplier rights, treats suppliers with integrity, ensures timely payments to small and medium-sized enterprises, and safeguards their legitimate interests.

#### **Management Structure**

The Company has enhanced the structure of its Supplier Management Committee by clearly defining responsibilities at each level, enabling more efficient and professional collaboration and division of labor. This ensures that each area of management is handled by dedicated personnel with specialized oversight.

The Decision-Making Body	Oversee supplier management work, responsi
Supplier Management Committee	implementation. Review and decide on major i
The Management Body	Responsible for daily work execution, coordi
Supplier Management Department	suppliers and certification of existing supplier
The Executive Bodies Review and Certification Team/ Procurement Staff	Develop new suppliers, propose admissio suppliers, carry out daily business liaison, and

#### Strategy and Management Approach

Implement a supplier lifecycle management system encompassing supplier admission, tiered management, performance evaluation, elimination, and replacement. This system integrates environmental and social responsibilities into every aspect of supply chain management to build an efficient and reliable supply chain.

Regularly conduct supplier communication and exchanges, promptly and accurately conveying the latest policies and relevant information through supplier interaction platforms. Provide supplier training and empowerment programs to enhance overall supplier capabilities.

#### Indicators and Targets

Establish annual supplier audit plans and targets, with ongoing tracking of supplier improvement effects.

nsible for system planning and design, goal setting, and supervision of or issues related to supplier management.

rdination, and implementation supervision. Organize admission of new liers.

sion, execute admission standards, conduct certification of existing and resolve specific issues in the process.

#### Supplier Management Process

Supplier Admission	Develop eight categories of admission application templates based on characteristics such as business types of cooperating suppliers, forming the Admission Certification Template Set V4.0. Establish a bi-weekly supplier review meeting mechanism and provide an emergency admission expedited channel for certain suppliers due to specific business cooperation needs.
Supplier Evaluation	Conduct performance evaluations of similar suppliers based on supplier level and category, achieving overall optimization of the supplier resource pool through continuous cycling, upgrading/downgrading, and elimination.
Supplier Classification	Implement a classified and tiered management system for suppliers, divided into four categories: strategic suppliers, quality suppliers, general suppliers, and supplementary suppliers. Each category is further subdivided into four levels: A, B, C, and D.
Supplier Exit	Establish a supplier exit mechanism and introduce supplier status change notifications to allow suppliers to understand their own status, facilitating two-way communication with suppliers.

Key Performance	Unit	2024
Total number of qualified suppliers	/	4,696
- Domestic suppliers (including Hong Kong, Macao, and Taiwan)	/	3,872
- Overseas suppliers	/	824
Number of suppliers assessed	/	4,696
Number of suppliers identified as having significant actual/potential negative impacts	/	0
Number of suppliers with agreed-upon corrective action plans	/	21
Number of suppliers that completed improvements	/	21
Number of suppliers terminated due to significant actual or potential negative impacts	/	0

# **Enhancing Supply Chain Resilience**

Constructing a secure and resilient supply chain is fundamental for a company to navigate steadily through a complex and volatile market environment. New Hope Liuhe has established a comprehensive risk analysis model and risk assessment mechanism, conducting thorough analyses on risk identification, potential losses, and specific mitigation measures to forge a resilient supply chain.

Risk Type	Response Strategies				
Supply Disruption Risk	<ul> <li>The Company has forged strategic partnerships with 69 industry-leading enterprises, strategically diversifying supplier channels to ensure a stable and secure supply of feed raw materials throughout the year.</li> <li>During periods of resource scarcity and adverse macroeconomic conditions, the Company negotiates with suppliers to establish expedited channels, ensuring uninterrupted access to supplies.</li> </ul>				
Price Risk	<ul> <li>The Company has established an industry research center to conduct proactive market analysis and forecasting, guiding various units to adjust raw material reserves based on market fluctuations.</li> <li>The Company employs financial instruments strategically, such as futures hedging, to mitigate price volatility risks.</li> </ul>				

Risk Type	Res
Quality Risk	The Company has implemented comprehensive syste listings, raw material procurement management, ar quality standards and testing methods. The Compa raw material procurement contracts with suppliers, s Suppliers found engaging in adulteration or posing management center, prohibiting future procurement f For detailed information on supply chain quality Control" section.
Transportation Risk	The Company leverages suppliers' external warehous ensuring timely delivery for regional companies and short-distance transportation.
Policy Risk	The Company closely monitors shifts in internation procurement and production strategies. It actively maintains open communication with government challenges, and seeks policy support and guidance.
Corruption Risk	<ul> <li>The Company mandates suppliers to sign Sunshin conducts regular inspections through internal cor to encourage suppliers to report corruption incide</li> <li>The Company implements a dedicated complaint integrity promotion. It organizes offline anti-cor suppliers, engaging over 500 suppliers with a cove</li> <li>The Company is currently developing a digital out of supply chain integrity-related policy requirements scheduled for January 2025.</li> </ul>
ESG Risk	The Company incorporates environmental protection performance assessment framework to minimize the

# Supply Chain Responsibility Management

New Hope Liuhe is dedicated to fostering sustainable development across the agricultural, animal husbandry, and food industry chain, enhancing procurement and supplier management practices, and integrating environmental and social responsibilities throughout the supply chain. As part of its global business expansion, the Company is developing comprehensive labor and human rights management policies for suppliers and contractors. These policies will require suppliers to make formal commitments in areas including child labor prevention, forced labor prohibition, occupational safety and health, fair wages and benefits, reasonable working hours, non-discrimination practices, equitable treatment, freedom of association, ethical conduct, environmental stewardship, anti-corruption measures, conflict of interest management, and fair competition practices. The policies will clearly define breach of contract consequences and remedial measures, serving as crucial dimensions in supplier performance evaluations. This approach aims to encourage suppliers to enhance their respect for and protection of fundamental human rights in the workplace, ensuring consistent implementation of human rights policies globally. The Company adheres to sustainable procurement principles, using product quality assessment as a critical criterion in supplier evaluations, while also considering environmental protection and social responsibility as key factors in management assessments.

# Joint Capability Building with Suppliers

New Hope Liuhe views its suppliers as vital partners, fostering relationships based on integrity and mutual growth to collaboratively build a resilient supply chain. In 2024, the Company conducted comprehensive quality inspections and evaluations of select domestic suppliers, identifying high-quality suppliers and products. The Company aligned testing methodologies with suppliers, providing quality assurance and technical support to standardize product quality, thus facilitating mutual growth with its supplier network.



## onse Strategies

ems including supplier evaluation and re-evaluation, qualified supplier and acceptance protocols. All raw materials are subject to stringent bany ensures that unified quality standards are incorporated into all subject to approval by the supply chain quality management center. g quality and safety risks are blacklisted by the supply chain quality from these entities.

management, please refer to the "Stringent Quality and Safety

ses or arranges for advance transfer of goods to its own warehouses, d converting long-distance periodic transportation into more efficient

onal trade and environmental protection policies, swiftly adjusting participates in policy seminars organized by industry associations, departments, provides timely feedback on policy implementation

ne Cooperation Agreements, achieving a signing rate exceeding 99%. It ontrol and audit mechanisms and establishes public reporting channels lents.

nt and reporting section on the supplier portal and conducts ongoing rruption training for procurement personnel and online sessions for verage rate exceeding 85% for small suppliers.

treach system, which, upon launch, will enable real-time dissemination nents and promotional content to all suppliers. Pilot implementation is

ion and social responsibility as key evaluation criteria in the supplier e environmental and social impact of raw materials.

Number of suppliers participating in capability building initiatives: 13Number of suppliers certified with quality management systems: 201 Advancing Inclusive Nutrition and Health through Premium Products

Contributing to the UN 2030 SDGs



Qianxihe Chilled Meat embodies the principle that "quality pork begins with superior pig farming".

New Hope Liuhe Co., Ltd. 2024 Sustainability Report | 30

# Nutrition and Health R&D

New Hope Liuhe remains committed to innovation-driven development, addressing critical challenges in breeding technology. By leveraging major scientific and technological projects, the Company spearheads key technological innovations in the industry, fostering a culture of enterprise-wide participation in research and innovation. This approach maximizes the Company's development potential and vitality, propelling its high-quality growth to unprecedented levels.

# **Enhancing R&D Framework**

New Hope Liuhe has established a globally competitive R&D infrastructure and management system, consistently intensifying its investment in scientific and technological innovation. Through the creation of innovative platforms across various domains, the Company extensively connects with high-quality resources in the pig farming and feed sectors. It strengthens collaborations with scientific research institutions, universities, and technical experts, promoting deep integration of industry, academia, and research. This strategy accelerates the transformation of scientific research outcomes into tangible productivity gains.

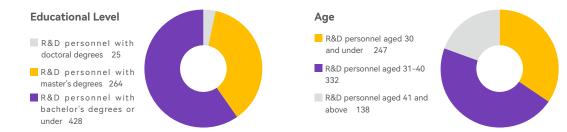
#### **Reinforcing Scientific Research Foundation**

The Company has implemented a scientific and technological innovation system with the Science and Technology Management Committee as the highest decision-making body and the Academic Advisory Committee providing technical guidance. This comprehensive system encompasses forwardlooking basic research, applied research results transformation, and promotion of practical applications. Leveraging various research institutes, we have established a broad research portfolio covering biological breeding, animal nutrition, farming technology, disease prevention and control, and food safety, contributing significantly to innovative industrial development.

To further align business development with innovative talent and strengthen independent R&D capabilities, we have established robust assessment, incentive, and promotion mechanisms for scientific researchers. We have formulated motivational innovation reward measures, including the New Hope Liuhe Co., Ltd. Reward Measures for Encouraging and Promoting Technological Innovation and New Hope Liuhe Co., Ltd. Rewards Measures for Intellectual Labor Achievement (Trial). These initiatives aim to stimulate enthusiasm for independent innovation among scientific and technological personnel. Moreover, as a primary supporting entity, New Hope Liuhe assisted New Hope Group in obtaining approval as a pilot enterprise for autonomous professional title evaluation in Sichuan Province. This initiative enables the Group to independently conduct professional title evaluations for senior animal husbandry technicians and senior veterinarians, breaking down regional restrictions on professional assessments. It fosters the development of more technical talents to lead enterprise growth within the Company and industry, bolstering the support for scientific and technological expertise.

Indicator	2024	2023	2022	2021	2020
R&D investment amount (million RMB)	270.2823	209.58	302.13	291.89	267.31
Percentage of R&D investment (%)	0.26%	0.15%	0.21%	0.23%	0.24%
Number of R&D personnel	717	808	1,094	1,191	1,013
Percentage of R&D personnel (%)	1.73%	1.66%	1.41%	1.49%	1.06%

#### **R&D** Personnel Structure in 2024



#### Establishing Scientific and Technological Innovation Platforms

New Hope Liuhe focuses on developing high-level scientific and technological innovation platforms, comprehensively addressing breeding, feed formulation, disease prevention and control, among other critical fields. The Company has established various scientific and technological innovation platforms, including the National Recognized Enterprise Technology Center, Postdoctoral Research Workstation, Key Laboratory of Digital Pig and Poultry Breeding Technology Innovation of the Ministry of Agriculture and Rural Affairs, and Key Laboratory of Feed and Livestock and Poultry Product Quality Safety Control of the Ministry of Agriculture and Rural Affairs. These platforms play a pivotal role in driving innovation, constantly elevating the modernization level of the industrial chain

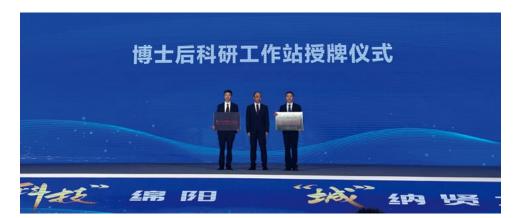


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### **Establishment of a New Postdoctoral Research Workstation**

In November 2024, New Hope Liuhe officially inaugurated a postdoctoral research workstation. This facility is equipped with state-of-the-art professional laboratories, including a feed quality safety testing center, fermentation experimental platform, animal health detection center, and GMP diagnostic reagent R&D workshop. Additionally, R&D bases for various livestock species, including pigs, poultry, aquaculture, and ruminants, as well as feed, pig breeding, and farming, have been established nationwide. These comprehensive facilities provide postdoctoral researchers with extensive pilot and demonstration bases, facilitating the practical application of scientific research outcomes in the sector.





# Participation in the Establishment of National Feed Grain **Technology Innovation Center**

As a global leader in the feed industry, New Hope Liuhe actively embraces its role in driving industry innovation. The Company has collaborated with leading enterprises in the feed industry to establish a joint venture, Zhongnong Feed Grain Technology Innovation (Shenzhen) Co., Ltd. This entity serves as the operational platform for scientific and technological advancement, successfully applying for the National Feed Grain Technology Innovation Center. The center will focus on the feed industry, conducting research on key core technologies of national strategic significance. It aims to promote the transformation and industrialization of research outcomes, address common industry challenges, and provide continuous innovative momentum for the high-quality development of China's feed industry.

### Key Technological Breakthroughs

Aligning with national strategic objectives and industry development needs, New Hope Liuhe focuses on biological breeding, disease prevention and control, and feed formulation. The Company persistently addresses technical challenges, targeting pain points and difficulties in frontline production, striving to achieve independent control over key core technologies. Several innovations have been granted patents, including "an active capture device and detection method for African swine fever aerosols," "a needle-free injector and its trigger," "a method, apparatus, equipment, and medium for identifying the number of gestational sacs based on artificial intelligence," and "a method, apparatus, equipment, and storage medium for constructing group pedigrees." These achievements demonstrate the Company's solid innovation capabilities and continued R&D success.

Operate 79 scientific and technological innovation platforms at various levels, including 11 national-level and 25 provincial-level platforms.

Indicator	Unit	2024
New patent applications in 2024	/	70
-New invention patent applications	/	27
-New utility model patent applications	/	43
New patents granted in 2024	1	116
-New invention patents granted	/	64
-New utility model patents granted	/	52
Cumulative total patents granted	/	1,426
Cumulative invention patents granted	/	444
-Cumulative utility model patents granted	/	900
—Cumulative design patents granted	/	82
New software copyrights obtained in 2024	/	2
-Cumulative software copyrights obtained	/	45
Cumulative trademarks	/	878



National-level breeding project acceptance

#### Major R&D Achievements in 2024

R&D Projects	R&D Achievements
Application of Whole Genome Early Selection Technology	<b>Innovation breakthrough:</b> Addressing the challenge of inaccurate selection and compromised genetic progress when castrating boars before they reach standard weight, we developed an early selection strategy. This involved using a proprietary 10K liquid-phase chip for genetic testing of newborn boars, calculating genomic breeding values and indexes, and selecting breeding subjects at 14 days of age.
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R&D Projects	R&D Ac
Application of Whole Genome Early Selection Technology	<b>Effectiveness:</b> This strategy was applied to 5,356 Duroc, Lai in 2024. It improved selection accuracy by 20% to 30% without and increased revenue of approximately RMB 4.84 million. Ac sequencing compared to 50K and 80K chips.
Development and Application of Al-based Breeding Pig Phenotype Determination Technology	Innovation breakthrough: Through artificial intelligence measurement software, back fat and eye muscle intelligent in This achieved intelligent and automated determination of bric comprehensively enhancing the accuracy, speed, and scale of Effectiveness: Through digital and intelligent technology, we replacing manual labor in phenotypic feature measurement efficiency and genetic evaluation accuracy, thereby enhancing improvement, and achieving continuous improvement in pig que
qPCR Method for African Swine Fever Virus (ASFV) Genotyping and Differentiation of Wild-type and Deletion Mutants	<ul> <li>Problem: Most ASFV identification methods are limited to deleted strains and wild-type strains, unable to simultaneous identification.</li> <li>Innovation breakthrough: We developed a detection method mutants. Utilizing multiplex TaqMan fluorescent quantitative povirus types in a single reaction, effectively improving detection</li> <li>Effectiveness: The method demonstrates exceptional sensitivi μL, capable of detecting trace amounts of viral DNA, minimiz and inter-group coefficient of variation, ensuring reliable deteclinical diagnosis and epidemiological investigations, providing</li> </ul>
Cultivation of "Xinxiwang" New Breed Lines and Matching Systems	<ul> <li>Innovation breakthrough: Integrating the needs of different slaughtering, and consumption, we established breeding goal quality. We employed proprietary genomic combined breed characteristics. The aim is to achieve stable production of different in the future, enhancing commercial pig production efficiency</li> <li>Effectiveness: The proprietary genomic combined breeding Specialized breed lines have been preliminarily cultivated a combination trials are currently underway.</li> <li>Expected impact on the Company's future development systems is anticipated to reduce production costs across differ benefits. Furthermore, it will enable the Company to meet the regions, establish product brands, and constantly upgrade an of comprehensive breeding capabilities will contribute signification.</li> </ul>
Case	The Achievement Titled "Key Technol Innovations in the Development and of Non-Grain Feed Resources" Won the Heilongjiang Provincial Science a Progress Award In collaboration with Northeast Agricultural University, New project "Key Technological Innovations in the Exploration Grain Feed Resources." This initiative developed innovat quality and efficiency of non-grain feed resources, establish technology system, and created effective antibiotic alter achieved comprehensive improvements in feed resource of safety, addressing a critical industry challenge and effective shortages and pressures on grain imports. In recognition o

Progress Award.

#### ievements

andrace, and Large White boars in 30 batches across 3 companies out compromising genetic progress, resulting in annual cost savings Additionally, the proprietary 10K chip proved more cost-effective for

technology, we independently developed intramuscular fat live measurement software, and portable weight estimation software. preeding pigs and localized replacement of determination software, f phenotypic data measurement.

we facilitated the smart transformation and upgrade of pig farms, ents. This reduced costs and significantly improved measurement ncing genetic progress, strengthening breed selection and genetic g quality.

to genotype I and II detection or differentiation between geneusly and rapidly meet the needs of genotyping and virus virulence

od for ASFV genotyping and differentiation of wild-type and deletion polymerase chain reaction (PCR) technology, it can rapidly distinguish n efficiency and accuracy.

ivity, with a minimum detection limit of 2.29 copies/µL or 4.15 copies/ nizing false negatives. It exhibits good reproducibility with low intraetection results. Its application extends beyond laboratory research to ing a powerful tool for African swine fever prevention and control.

t stages in the entire pig industry chain, including breeding, farming, oals for high reproduction, feed efficiency, rapid growth, and superior eding algorithms to cultivate specialized breed lines with distinct ifferent breed line hybrid combinations across various market regions y and pork quality.

ng algorithm has been successfully implemented within the system. and are being disseminated within the system. Matching system

nt: The cultivation of diverse specialized breed lines and matching erent stages of the entire industry chain, optimizing overall economic the differentiated demands of pig markets and consumers in various and optimize the Company's pig breeding system. This enhancement cantly to the efficient development of the pig industry.

# nological d Safe Utilization First Prize in and Technology

ew Hope Liuhe carried out the and Safe Utilization of Nontive methods to enhance the shed a robust feed loss control ernatives for feed. The project e expansion, conservation, and ctively mitigating feed resource of its contributions, the project was awarded First Prize in the 2024 Heilongjiang Provincial Science and Technology



# Adhering to Breeding Ethics

New Hope Liuhe rigorously adheres to relevant laws and regulations governing breeding research ethics, including the Biosafety Law of the People's Republic of China, the Animal Husbandry Law of the People's Republic of China, and the Measures for Scientific and Technological Ethics Review (for Trial Implementation). The Company conducts animal breeding with unwavering commitment to the principles of rigor, authenticity, and transparency. We resolutely avoid involvement in technological research and applications that contravene ethical standards or compromise animal welfare, ensuring that our technologies and products consistently serve sustainable development and societal well-being.

We have established a Science and Technology Ethics (Review) Committee to ensure that the Company's innovation activities adhere to ethical principles, mitigating potential threats to the ecological environment, human health, and society. The committee comprises internal personnel with exemplary professional knowledge and ethical standards, including researchers and legal advisors. It is tasked with formulating and constantly refining internal ethical norms and systems regarding the protection of basic biological rights, privacy, and data security. The committee oversees and reviews the legality and compliance of the Company's scientific and technological innovation projects. Regular dialogues are conducted with relevant departments, research teams, and regulatory agencies to ensure that ethical practices align with the Company's overarching goals and requirements.

Research projects, clinical trials, or other related activities involving ethical considerations undergo rigorous review by the committee, including initial assessment of project materials and formal voting by committee meetings. To maintain the independence and impartiality of the review process, committee members are prohibited from direct participation in the R&D of projects under review. External experts are invited to contribute broader perspectives and expertise, ensuring the scientific validity and fairness of decisions. Furthermore, the committee conducts ongoing monitoring and compliance reviews of approved projects, ensuring that the entire implementation process adheres to ethical norms and legal requirements.



Animal Breeding	<ul> <li>The selection and application of breeding techniques are grounded in scientific principles and practical needs, rather than personal bias or profit-driven motives.</li> <li>Emphasis is placed on the sustainability of pig breeding, ensuring that breeding activities do not excessively deplete the environment and resources.</li> </ul>
Feed Grain-Saving Technology	<ul> <li>When promoting low-protein diet technology, rigorous measures are taken to ensure that the technology does not adversely affect the quality and safety of animal products.</li> <li>When developing non-grain feed resources, the Company conducts environmental impact assessments on soil and water sources to prevent damage to the natural environment.</li> </ul>

# Stringent Quality and Safety Control

Food safety is of paramount importance. New Hope Liuhe adheres to the concept that "quality control is never trivial, and safety responsibility is paramount." The Company strictly follows the "three concessions, three non-passes" principle, implementing a fully monitored and traceable quality and safety system from source to end. We consistently enhance the efficiency and timeliness of food safety and quality management, contributing to the Healthy China initiative through higher standards of food safety and nutrition.

# Governance • Establish a Food Safety and Quality Management Department at the headquarters to oversee food safety affairs. Institute similar departments in all branches and subsidiaries, creating a comprehensive top-down safety management structure. • Constantly refine internal management systems in accordance with national and local laws and regulations. Impact, Risk, and Opportunity Management

- Aim for zero product recall incidents and negative product events, • Implement a three-tier quality inspection mechanism, cascading food implementing comprehensive quality management measures across all safety responsibilities to prevent quality and safety risks. operations.
- Strengthen supply chain quality and safety management to ensure that raw materials from suppliers consistently meet quality standards.

# **Enhancing Quality Management System**

New Hope Liuhe rigorously adheres to the Food Safety Law of the People's Republic of China, the Product Quality Law of the People's Republic of China, the Regulations on Live Pig Slaughter Management, the Regulation on the Administration of Feeds and Feed Additives, and relevant laws and regulations in its operational locations. The Company has established a comprehensive food safety management system covering the entire value chain, based on internal policies such as the Food Safety Evaluation Management Measures of New Hope Liuhe Co., Ltd., Black Pig Product Food Safety and Quality Management System, and Food Crisis Management Measures of New Hope Liuhe Co., Ltd. This system encompasses raw material procurement, production control, quality inspection, product management, sales management, and personnel training. With a craftsman's dedication, we maintain vigilant food safety standards. Notably, no major food safety or quality incidents occurred during the reporting period.

### **Constantly Refining Management Systems**

The Pig Sector has refined its Implementation Rules for Pre-sale Drug Residue Testing in Live Pigs (Trial) and Detailed Rules for Input Control in Freerange Operations (Trial). These improvements strengthen pre-emptive management of drug residues in pigs and standardize the use of purchased feed and veterinary drugs, enhancing proactive risk prevention in food quality and safety. Additionally, the Feed Sector has developed 17 process standards and operating norms, alongside 18 standard operating procedures (SOP), clearly delineating responsibilities for quality management positions.

# Advancing Quality System Certification

The Company actively promotes quality and food safety standardization certification across its Sectors, branches, and subsidiaries. Regular internal audits and management reviews of the organization's quality management system are conducted, evaluating its performance, effectiveness, and scientific validity to drive continuous improvement.



while Shandong Qianxihe Food Co., Ltd. has achieved FSSC 22000 Food Safety System certification. Feed Sector: 35 companies have attained ISO 9001 Quality Management System certification, with 13 securing ISO 22000 Food Safety Management System certification. Overseas Sector: All companies in the North Vietnam Region have obtained ISO 9001 Quality Management Philippines Region has been certified by the Philippine Bureau of Animal Industry monitoring agency.

#### Strategy and Management Approach

- Conduct quality and food safety standard certifications to constantly improve the quality management system.
- Implement quality and safety management throughout the entire production and operation process, forming a closed-loop management system for biosafety control. Leverage digital technologies to enhance product traceability, collaborating closely with farmers and suppliers to elevate quality control standards.

#### Indicators and Targets

- Pig Sector: All Fresh Meat Division companies have secured ISO 9001 Quality Management System certification and Hazard Analysis and Critical Control Points (HACCP) System certification (V1.0). Hebei Qianxihe Meat Industry Co., Ltd. has obtained ISO 22000 Food Safety Management System certification,
- System certification. The Egyptian company has secured both ISO 9001 and HACCP certifications, while the

#### Intensifying Quality Inspection Efforts

The Company has implemented a Food Safety Quality System Audit Form and established a three-tier quality inspection system at the Group, division. and subsidiary levels. This comprehensive approach covers approximately 400 inspection items across 9 modules, including procurement, R&D, warehousing & logistics, production, quality control, and system construction. This robust system promptly identifies issues, supervises rectification, and implements quality and safety responsibilities at all levels. Subsidiary departments and workshops conduct self-inspections, while safety and quality departments perform routine and specialized checks. Division safety and quality departments oversee problem rectification and conduct unannounced inspections. The Group's Safety and Environmental Protection Center performs at least one food safety system inspection per quarter for each company. Additionally, the Company organizes video inspections involving the Feed Sector's Quality Management Center, Quality Inspection Center, and regional quality control personnel. These inspections focus on the laboratories, raw material warehouses, and ingredient storage facilities of branches and subsidiaries, ensuring compliance with warehouse management standards and operating procedures.

#### **Elevating Quality Awareness Across the Workforce**

The Fresh Meat Division of the Pig Sector has conducted extensive training for frontline personnel, covering foreign object prevention, product standards, HACCP implementation, and pest control. This initiative has enhanced employees' awareness and capabilities in product quality management. A total of 4,297 attendances were recorded, with 77.26 hours of training delivered. The Feed Sector has organized a professional skills enhancement program for high-potential quality management personnel, resulting in 128 individuals obtaining High-Potential Feed Quality Management certification. A comprehensive testing capability certification for inspection and laboratory personnel has also been conducted, with a 100% completion rate among laboratory technicians.



New Hope Liuhe received the Food Safety Management Innovation Excellence Case award from China Food Safety News.

Yang Ling Besun Agricultural Industry Group Corporation Limited was

honored with the title of National Food Safety Demonstration Unit.

Liaoning Qianxihe Food Co., Ltd. was recognized as a 2023-2024 Catering Industry Gold Supplier.

Shandong Qianxihe Food Co., Ltd. earned the titles of Best Brand for Chinese Group Meal Supply and Food Safety Meat Brand.



# Full Life Cycle Management

New Hope Liuhe implements comprehensive quality and safety management throughout its entire production and operational processes. The Company has established a closed-loop biosafety control system and leverages digital technologies to enhance product traceability. By collaborating with farmers and suppliers, the Company aims to elevate overall quality control standards, thereby safeguarding product quality and safety.

#### **Raw Material Quality and Safety Management**

The Company's Safety and Environmental Protection Center works in tandem with divisions of the Pig Sector to evaluate the product safety and quality performance of raw meat suppliers. This assessment combines initial gualification reviews with on-site evaluations, scrutinizing suppliers' adherence to red-line warnings, legal qualifications, food safety and quality management systems, HACCP plans and prerequisites, and processing controls. Through dynamic management, the Company mitigates supplier-related food safety and quality risks. In 2024, the Feed Sector achieved a 100% sign-up rate for quality commitment letters with raw material suppliers.

#### **Biosafety Prevention and Control**

Biosafety Governance. The Company has established a Biosafety Management Manual and formed a dedicated biosafety management team. Operating under the direct leadership of the General Manager, the Technical Director is responsible for conducting biosafety risk assessments on pig farms, promptly developing preventive measures, and constantly refining biosafety plans. In 2024, a new Epidemic Prevention Commissioner role was introduced, with senior department heads overseeing lower levels to support and supervise epidemic prevention efforts. This initiative has significantly enhanced the efficiency and intensity of biosafety improvements.

Tiered Biosafety Management. Adopting the "great wall - checkpoint - guard" concept, the Company categorizes pig farms and surrounding areas into four risk levels: red, orange, yellow, and green, based on regional risk assessments. Movement of personnel and materials between different risk levels requires specific checkpoint processing, effectively preventing pathogen intrusion through level differentiation, clear boundaries, checkpoint establishment and vector interruption

Biosafety Inspections. The Company employs a combination of checklist methods and cross-audits to ensure the effective implementation of preventive measures. Detailed inspection guidelines and red-line issues are developed for operations likely to carry pathogens in different risk-level areas, with clear accountability assigned. Regular and random inspections are conducted using checklists, complemented by cross-audits between regions, to objectively review biosafety implementation from multiple angles. This cross-inspection process also facilitates mutual learning and work improvement among inspectors from different areas.

### **Disease Prevention and Control**

The Pig Sector has implemented positive pressure ventilation systems and other modifications in high-disease-risk areas for self-operated farms. Combined with optimized epidemic prevention processes, these measures have significantly improved winter epidemic prevention effectiveness.

The Feed Sector maintains strict separation between living areas, production areas, dispatch areas, and raw material areas, achieving unidirectional flow with dedicated disinfection channels. Measures include three-level washing and disinfection for feed vehicles entering plants, daily environmental and production process sampling and testing, and raw material testing at animal health centers before use. These stringent controls at each production stage ensure the provision of safe and reliable feed products to farmers.



The Company's subsidiaries - Guangdong Xinhao Zhenghe Agriculture and Animal Husbandry Co., Ltd., Xiangzhou Xinhao Agriculture and Animal Husbandry Co., Ltd., and Laibin Xinhao Agriculture and Animal Husbandry Co., Ltd. - have successfully passed the Ministry of Agriculture and Rural Affairs' disease-free zone audit.



Implementing positive pressure ventilation upgrades for pig farms

#### **Slaughter Quality and Safety**

The Company strictly adheres to the *Regulations on Live Pig Slaughter Management*, reinforcing quality management throughout the entire process from pig entry to product dispatch. Each facility conducts individual inspections on slaughtered pigs, ensuring comprehensive coverage. Farms and slaughterhouses collaborate on rigorous washing, disinfection, and verification of pig transport vehicles. Systematic control of breeding, procurement, production, logistics, and sales ensures consistent meat product quality and safety.

#### **Product Traceability Management**

The Company has established a comprehensive digital quality control platform for food, enhancing product traceability management. Pigs are batchmanaged by vehicle and farmer, traceable to their source and slaughter details. Carcasses are individually barcode-managed, traceable to pig source batch and product destination. Cut products and by-products are barcode-managed by production date, traceable to raw material source batch and product destination. In 2024, the Company initiated source tracing for issues such as needles and abscesses, enabling feedback of slaughterhouse quality information to the breeding operations, effectively enhancing breeding quality control capabilities.

### **Product Recall Management**

The Company has implemented a *Product Recall Management System*, clearly defining recall procedures and departmental responsibilities and division of labor. During product recalls, reports are submitted to the Group and local food safety authorities, identifying customer names, locations, product types, batch numbers, and quantities of recalled products. Public announcements of recall information are made promptly upon approval from the Group and the local government. To ensure the effectiveness of the recall system, annual mock recall drills are conducted to guarantee timely response and proper execution.



In 2024, no product recall events or negative product incidents occurred.

# **Developing Healthy Food Products**

New Hope Liuhe places a strong emphasis on consumers' growing demand for health and nutrition. The Company enhances animal well-being and meat nutritional quality through innovative feed formulations and scientific breeding methods, actively addressing the diverse dietary needs of consumers.

#### Enhancing Livestock and Poultry Nutrition and Health

The Company has established an integrated "nutrition + health" service system, tailoring nutritional solutions for various regions, breeding models, and species requirements to improve animal nutrition and overall health. During the reporting period, we introduced the *Management Regulations* for Standard Use of Class B Feed Raw Materials, revising 62 indicators and incorporating 25 new raw material standards. Leveraging digital systems, we implemented standardized management for over 2,500 feed raw material master data entries, strengthening end-to-end quality control of raw materials and supporting the R&D of customized feed nutrition formulas.

Swine Nutrition	Addressing the nutritional needs of diverse regions, seasons, and pig breeds, we have integrated research findings on commercial pig protein, energy, amino acid, and calcium-phosphorus requirements, feed intake regulation, and raw material utilization. Through multi-stage precision nutrition formulation technology, we provide optimal nutrition for pig herds. In 2024, we launched the M-NRC (Micro-Nutrient Requirements Criteria) animal vitamin and trace element nutrition standards, introducing the Xiwangxin series of products to enhance pig nutritional status.
Poultry Nutrition	For broiler chickens, we have implemented a novel "corn grits + pellet feed" process, resulting in increased market weight, 7-8g gizzard weight gain, significantly reduced proventriculus inflammation rates, and markedly improved intestinal health. For meat ducks, we have achieved substantial improvements in intestinal health, and our functional fiber-regulated intestinal health nutrition program was awarded the second prize in the Qingdao Science and Technology Progress Award.
Animal Health Products	Focusing on intestinal health and immune regulation, we have introduced composite animal health products containing probiotics, enzymes, and plant extracts. These innovative products improve animal intestinal microecological balance, effectively reducing the incidence of livestock and poultry diarrhea (clinical trials demonstrated a reduction of over 30%), thereby decreasing reliance on antibiotics.

#### **Delivering Premium Healthy Pork**

New Hope Liuhe's Fresh Meat Division of the Pig Sector consistently develops its proprietary Zhichu Black Pork brand, employing an integrated selfbreeding and self-slaughtering black pig product supply model with stringent management of breeding environments, feed quality, and veterinary drug use. Zhichu black pigs are nourished with specialized black pig feed, featuring reduced energy and increased fiber and protein content in the late-stage feed. With an average breeding period exceeding 260 days, this approach achieves an optimal ratio of lean meat to fat, resulting in superior taste and nutritional profile, meeting consumer demands for high-quality pork products.

HONORS

Qianxihe's Zhichu Black Pork was honored with the 2024 China International Meat Industry Week Special Recommended Product and the Guangdong-Hong Kong-Macao Greater Bay Area 2024 Brand Pork Excellence Award. Qianxihe's Pork Belly Series won the Gold Award for Quality Livestock Products at the 39th (2024) Shandong Animal Husbandry Expo.





Qianxihe is dedicated to building its premium black pork brand "Zhichu"



The Company actively develops antibiotic-free meat products, strictly prohibiting the use of antibiotics in water, feed, feed ingredients and additives, and processing materials throughout the breeding process. Beijing Qianxihe Foodstuff Co., Ltd., Hebei Qianxihe Meat Industry Co., Ltd., and Shandong Qianxihe Food Co., Ltd., all under the Fresh Meat Division, have obtained multiple certifications for various antibiotic-free products, encompassing white pigs, black pigs, chilled fresh pork, and edible pig by-products. The Company is committed to promoting and expanding antibiotic-free breeding certification across its entire system, consistently offering consumers a diverse range of antibiotic-free meat products.

In December 2024, the departure of Longhai New Hope's live pig transport vehicle under customs supervision marked the first land transportation of high-quality live pigs from Fujian Province to Hong Kong. This milestone also increased the number of New Hope Liuhe's pig farms qualified to supply Hong Kong and Macao to three, further optimizing the Company's sales network in key pork consumption regions. Looking ahead, the Company will continue to provide safe, healthy, and premium pork products, contributing to the stable food supply and safety in Hong Kong and Macao.



Antibiotic-free product and farm certifications



Live pig shipment departure scene to Hong Kong

# **Improving Service Quality**

New Hope Liuhe places customer needs at the forefront of its operations, with customer satisfaction as its ultimate goal. The Company is committed to consistently improving service quality, adhering to responsible marketing practices, and eliminating false advertising. Through effective customer communication, we aim to gain customer approval and long-term support, fostering a mutually beneficial relationship with our clients.

Governance	
• Constantly refine the customer service system by implementing internal management policies such as the <i>Evaluation and Management Measures</i> for Marketing Personnel and Regulations for Customer Management in Pig Sales.	• ( 2 2 1 1 1 0
Impact, Risk, and Opportunity Management	
<ul> <li>Address various customer demands through standardized service processes and diversified service offerings.</li> <li>Identify potential risks in the marketing domain, regulate sales personnel behavior, and conduct responsible marketing with a conscientious approach.</li> </ul>	•

# **Elevating Service Capabilities**

New Hope Liuhe prioritizes customer needs, consistently enhancing service quality through optimized processes, expanded pre-sale, in-sale, and aftersale service offerings, tiered customer management, and open communication channels. The Company aims to provide timely responses to customer demands, delivering professional, high-quality, differentiated, and attentive service experiences.

#### **Customer Classification Management**

Teams across Sectors implement tiered management based on customer segmentation, offering tailored sales cooperation schemes.

Local Farmers or Small-scale Distributors	Offer flexible small-batch orde and breeding technology con improving breeding efficiency.
Medium-scale Farms or Regional Agents	Deliver standardized feed pro preferential pricing to support share.
Large-scale Aquaculture Farms or Distributors	Provide customized feed forr technical support to ensure consistent supply and service t

#### Strategy and Management Approach

Consistently optimize service processes, expand pre-sale, in-sale, and after-sale service offerings, implement tiered customer management, and maintain open communication channels to enhance service quality.

Establish diverse communication channels to ensure seamless interactions with customers, promptly addressing and resolving customer inquiries and complaints.

#### Indicators and Targets

Implement performance evaluation metrics, including customer acquisition numbers, customer churn rate, customer satisfaction, customer complaint rate, and sales volume, to assess sales and customer service personnel.

Constantly monitor key performance indicators such as customer complaint handling rate and customer complaint resolution rate.

ders and streamlined purchasing processes. Provide online support onsultations to assist customers in reducing procurement costs and y.

roduct solutions. Combine regular follow-ups, market analysis, and rt customers in enhancing breeding efficiency and expanding market

rmulations, dedicated sales representatives, priority supply, and re products meet large-scale breeding requirements. Maintain e through long-term cooperation agreements.

#### **Optimizing Service Experience**

Improving on-site delivery and after-sales service quality. The Company proactively arranges direct delivery to address customers' temporary transportation challenges. Additionally, it comprehensively refines on-site deduction types and standards for non-premium pigs to balance quality discrepancies and boost customer satisfaction. At delivery sites, we strictly control the mixing of underweight pigs to ensure consistent average weight and uniformity. We also swiftly coordinate compensation for verified excessive post-sale losses. To maintain stable partnerships, we implement negotiated compensation for high mortality issues within 14 days post-sale for premium piglets supplied to the Group's breeding customers.

Establishing in-house animal health testing laboratories. Internally, the Company conducts real-time monitoring of animal diseases to promptly identify epidemic trends and provide a scientific basis for effective prevention and control measures. Externally, precise and efficient disease detection services are offered to partnering farmers, effectively mitigating the impact of diseases on their operations through accurate culling and comprehensive biosafety measures.

Providing professional services. The Overseas Sector has established specialized service teams, including an aquaculture service team, a Green Imprint pig feed specialized team, a veterinary service team, a deep cleaning team, and a farm assessment team. These teams offer a range of services, including health management, animal health testing, farm cleaning and disinfection, water line maintenance, and technical problem-solving assistance to help customers effectively utilize products.

# **Expanding Online Channels**

Guided by the national "Internet+" initiative and the Company's comprehensive "Three Alls and Four Transformations" digital strategy, New Hope Liuhe is actively expanding its online business operations. To achieve these goals, the Company is fully leveraging cutting-edge technologies, including mobile internet applications, big data analytics, and cloud computing platforms. This approach aims to provide customers with efficient, transparent, and high-quality services.

Pig	The Company has implemented online auction sales for premium fattening pigs, retired breeding pigs, and high-quality piglets. We update the cnhnb.com platform daily with comprehensive pig source information, including quantity, weight, breed, video footage, and delivery locations, ensuring fairness for all partnering customers. This platform enables interested customers to bid and purchase directly online, with sales contracts transitioning from paper to digital formats, streamlining processes and enhancing service efficiency.
Sector	In 2024, we achieved 89% of our Pig Sector revenue through online sales. Since February 2024, we have facilitated the online sale of 775,000 high-quality piglets, with 785 customers nationwide participating in auctions, establishing an excellent procurement platform for piglet buyers.
Feed Sector	The Company has developed an integrated "e-commerce platform + livestream e-commerce" operational model alongside a F2C (Factory to Consumer) business strategy. We specialize in premix feed to support small and medium-sized farmers, addressing critical challenges in farming techniques, cost management, and information access. We organized 33 comprehensive farming seminars and 156 product livestreams to enhance farmers' management skills and disease prevention capabilities. Our efforts have assisted small and medium-sized farmers in reducing intermediary costs by 10%-15%. In 2024, we attained 9% of the Premix Feed Division's external sales through online channels, becoming a leading merchant on major e-commerce platforms. We have established partnerships with nearly 6,640 farmers nationwide, serving approximately 700,000 pigs throughout the year.



# **Customer Complaint and Satisfaction Management**

New Hope Liuhe consistently enhances its customer feedback and complaint resolution mechanisms, expands diverse communication channels, and regularly conducts multi-dimensional satisfaction surveys. This approach allows the Company to promptly address customer needs and provide attentive service for increased satisfaction.

#### **Customer Complaint Handling**

The Company has established a centralized customer service center with multiple platforms for consumer interaction, including a dedicated 400 customer service hotline, WeChat official account, and official online store. It has implemented specialized service teams within each Sector, tailored to specific business features, standardizing customer inquiry and complaint processes to ensure efficient handling of consumer feedback.

Pig Sector	<ul> <li>The Fresh Meat Division and live pig sales departm hotlines, prominently featured on product labels and channels.</li> <li>Sales representatives maintain regular communicatin feedback. This includes complaint timings, essential co details of the products in question. The safety and co department's improvement initiatives based on this feed conducts thorough investigations and develops tailored</li> </ul>
Feed Sector	<ul> <li>A specialized 400-telephone customer service te representatives and follow-up specialists, to address cu</li> <li>A robust system has been implemented to generate of complaints, general complaints, and special incidents. efficient resolution of customer needs.</li> <li>Customer follow-ups are conducted to assess satisfac an unsuccessful resolution, triggering an escalated achieved and the system work order can be closed.</li> </ul>
Overseas Sector	<ul> <li>Dedicated channels for receiving customer complaints l and processed to ensure timely response and resolution communicated to customers, with subsequent follow-u</li> </ul>

KEY	Indicator	Unit	Pig Sector		Feed Sector
PERFORMANCE		Offic	Live Pig Sales	Fresh Food Business	
	Number of customer complaints	cases	615	83	65
	Customer complaint handling rate	%	100	100	100
	Customer complaint resolution rate	%	82	100	100

### Satisfaction Management

To gain a comprehensive understanding of customer satisfaction with New Hope Liuhe's products and services, we conduct in-depth satisfaction surveys. These assessments focus on multiple key dimensions, including product quality, complaint handling efficiency and effectiveness, and delivery accuracy. Tailored survey questions are added based on different sectors and customer types to ensure relevance and precision. Based on the survey results, we follow up on identified issues and implement targeted improvements. Customer satisfaction evaluations and survey outcomes serve as a vital foundation for enhancing customer relationship management.



The Fresh Meat Division of the Pig Sector achieved an average customer satisfaction rate

of 96.46%, surpassing the target of 96%.



Shandong Qianxihe was recognized as a Consumer Satisfaction Brand.

ment have implemented dedicated 400 customer complaint d applets, ensuring customers have clear access to complaint

ition with distributors, compiling and analyzing daily market customer information, the content of complaints, and specific quality department at each branch oversees the production eedback. For customer complaints, the production department red resolution strategies.

team has been established, comprising customer service customer needs promptly.

e categorized work orders for purchasing requirements, severe s. Each category has defined processing procedures to ensure

action levels. If a follow-up reveals dissatisfaction, it is deemed d work order and reprocessing until customer satisfaction is

s have been established. Each complaint is meticulously tracked on within specified timeframes. Resolution outcomes are swiftly ups to verify complete problem resolution.



# **Digital Empowerment**

New Hope Liuhe is actively advancing the digital transformation and upgrading in the agricultural and animal husbandry industry. The Company is committed to its "Three Alls and Four Transformations" digital transformation strategy, which is underpinned by the integration of business, data, and management. This approach aims to develop a digital smart breeding ecosystem across the entire industry chain. By implementing digital and intelligent technologies in breeding sites, pig farm management, and corporate control, the Company is making smart pig farming the new standard and leveraging new quality productive forces as a catalyst for growth.

# **Digital Transformation**

New Hope Liuhe's digital transformation strategy focuses on achieving intelligent key equipment, digitalized business scenarios, online functionalization of all data, and proactive management of the entire process. This "Three Alls and Four Transformations" approach, guided by the integration of business, data, and management, involves the extensive application of digital and intelligent technologies throughout all stages of poultry and livestock breeding, including feeding, health checks, and disease prevention. This comprehensive approach drives continuous improvements in production management and biosafety control, resulting in enhanced operational efficiency and strengthened core competitiveness.

Governance	Strategy and Management Approach
<ul> <li>Prioritize digital transformation as a key strategic initiative to explore new areas of development, foster new drivers of growth, and enhance competitive advantages.</li> </ul>	<ul> <li>Implement the "Three Alls and Four Transformations" digital transformation framework underpinned by the integration of business, data, and management to build a digital smart breeding ecosystem across the entire industry chain, enabling dynamic control and standardization across all production stages.</li> </ul>
Impact, Risk, and Opportunity Management	Indicators and Targets
<ul> <li>Consistently identify digital transformation opportunities throughout the research, breeding, production, supply, sales, and service</li> </ul>	<ul> <li>Establish qualitative goals that promote the seamless integration of business operations with digital technology, evaluating the</li> </ul>



New Hope Liuhe establishes direct system connections with C&D Group.

# Building a Digital Smart Breeding Ecosystem across the Entire Industry Chain

Pig Farm Management	Feeding Management	<ul> <li>Feed Silo Weighing Technology: In calibration of sensor and feed silo o management of feed silo data, ensurir activities.</li> <li>Intelligent Precision Feeding System sensor networks, and control mechani distribution.</li> </ul>
	Immunization Management	Networked Needle-free Injection: administer vaccines intradermally to p productivity, eliminates needle consu enhances food safety. Integration witl effective management of the immuniza
	Feed Formulation	<ul> <li>Hongtong · SAT Nutrition Estimat the Company's 40-year animal nutriti provides a visual decision-making environmental parameters, and nutri experience-based to data-driven feedi</li> <li>Hongtong · NHF Formula System: material price fluctuations, regional n optimization matrix. This system predintegrates a carbon footprint tracking sustainability.</li> </ul>
Feed Production	Supply Management	<ul> <li>Plant Logistics Platform: Seamlessly an efficient, intelligent operational loc arrivals online, utilizing smart recogni enhancement significantly improves of African swine fever transmission risks</li> <li>Demand Planning Management Sy with production realities, generating prevents overproduction and supply sedge technologies to refine sourcing sedge technologies to refine sourcing sedge technologies to refine successfully Holdings Co., Ltd. and C&amp;D Group, integration enables real-time data sh supply chain collaboration efficiency.</li> </ul>
Corporate Management and Control	Data Analysis	Third-generation Portable Weight Al algorithms with big data training a compact, integrated, and highly e accuracy and efficiency while redu traceability via cloud platforms pre processes.
	Order Management	Feed CRM System: In 2024, 157 cc the Feed Sector. By consolidating ext map of the Feed Sector's customer I real-time. This robust system provid significantly enhancing the precision a

Implement stable sensors and robust algorithms for remote operational status monitoring. This system enables centralized ring feed traceability, minimizing waste, and preventing fraudulent

**em:** Utilize cutting-edge technologies including computer systems, inisms to achieve precise control and management of animal feed

**1:** Employ needle-free injectors that use controlled pressure to pigs. This technology reduces vaccine usage, increases individual sumption, minimizes stress in pigs, prevents cross-infection, and *i*th IoT functionality and a digital immunization platform enables zation process.

**ation System:** Leverage dynamic model algorithms to combine ition database with global best practices. This innovative system g tool, enabling farmers to monitor livestock growth curves, tritional requirements in real-time, facilitating a transition from eding practices.

n: Incorporate 396 nutritional model parameters, including raw nutritional standards, and animal growth stages, into a dynamic recisely tailors feed formulas to diverse breeding scenarios and g module, optimizing both nutritional efficiency and environmental

sly integrate personnel, vehicles, and business processes to create oop. Following customer authorization, drivers can schedule plant nition, automated weighing, and self-service documentation. This s customer experience and operational efficiency while mitigating s by minimizing direct human contact.

System: Employ digital analytics to synthesize market dynamics g precise and efficient demand forecasts. This system effectively y shortages while leveraging big data analytics and other cuttingg strategies and mitigate potential risks.

Ily established direct system connections with Yihai Kerry Arawana p, creating a streamlined manufacturer-trader interface. This sharing and seamless business operations, significantly enhancing /

**ht Estimation Equipment Based on Machine Vision:** Combine ng and non-contact photographic weight estimation to deliver efficient solution. This technology enhances weight estimation ducing biosafety risks and maintenance costs. Real-time data revents weight discrepancies and fraudulent activities in sales

complete feed companies fully implemented this system across extensive customer data, it creates a comprehensive and accurate r base, tracking customer dynamics and business information in ides critical data support for managing over 6,500 daily orders, n and adaptability of sales planning.

# Case AI-Powered Weight Estimation Revolutionizes Smart Pig Farming

To address longstanding challenges in pig farming, such as the time-consuming and labor-intensive process of herding pigs to scales, inaccuracies in visual weight estimation, and stress-induced responses in pigs due to handling, New Hope Liuhe has developed a suite of intelligent tools. A standout innovation is the third-generation portable weight estimation device. This technology allows for rapid weight calculation of pigs without the need to move them from their pens. With a simple scan, the device can determine a pig's weight in under 5 seconds, boasting an impressive 98% accuracy rate while significantly reducing biosafety risks. Moreover, the precise and real-time data collection and recording capabilities of this technology provide crucial insights that support advanced farming practices, including precision feeding, optimized feed type adjustments, strategic pig pen transfers, and pre-sale feed management.



# Information Security and Privacy Protection

New Hope Liuhe prioritizes information and network security, strictly adhering to the *Personal Information Protection Law of the People's Republic of China*, the *Data Security Law of the People's Republic of China*, and other relevant data protection standards. The Company has implemented comprehensive guidelines, including the *Information Security Management Measures, Terminal Security Management Measures, Data Security Management Measures*, and *Emergency Response Plans*. These initiatives constantly enhance internal information and network security management systems, reinforcing the foundation of data privacy protection and network information security.

Governance	Strategy and Management Approach
<ul> <li>Establish a Data Security Management Committee and a Confidentiality Committee to oversee New Hope Liuhe's information security management operations.</li> <li>Designate confidentiality coordinators across various departments, creating a pervasive information security management organizational system to constantly enhance the Company's information security management capabilities and standards.</li> </ul>	<ul> <li>Implement the principle of least privilege, strictly limiting internal access to employee and customer privacy information.</li> <li>Rigorously control the application development and deployment process, implementing data anonymization and encryption for personally sensitive information during network storage and transmission, bolstering information security assurance capabilities.</li> <li>Regularly disseminate information security regulations, requirements, and cases through a dedicated WeChat official account, complemented by specialized information security training to raise awareness among all employees.</li> </ul>
Impact, Risk, and Opportunity Management	Indicators and Targets
<ul> <li>Identify critical points in business processes susceptible to information leakage and formulate clear response procedures.</li> <li>Implement robust protection measures for employees' and customers' personal data, including basic information, identity details, biometric data, educational and professional records, health information, and financial data to mitigate information leakage risks.</li> </ul>	<ul> <li>Monitor key performance indicators, including the number and readership of articles published on the information security WeChat official account, as well as any information security and privacy protection disputes/customer privacy leakage incidents, ensuring effective implementation and measurable outcomes of relevant initiatives.</li> </ul>

#### Information Security Governance Structure

The Company has established a Data Security Management Committee and a Confidentiality Committee at the operational management level to coordinate New Hope Liuhe's information security and data management efforts. Confidentiality coordinators are appointed across various departments, creating a comprehensive information security management system that ensures the effectiveness and continuous improvement of information security practices.

	Information Security Gov
Data Security Management	Develop and implement information security
Committee and Confidentiality	corporate trade secrets, and personal privacy inf
Committee	processes and propose targeted improvement m
Departmental Confidentiality	Oversee information security management win
Coordinators	information security policies and systems.

#### Information Technology Protection

At the technical level, the Company implements cutting-edge information security protection technologies. By bolstering data control and network security protection, a comprehensive, multi-layered information security defense network has been established, ensuring the thorough safeguarding of information and data integrity.

Enhanced Data Control	Implement an automated periodic backup mea robust disaster recovery capabilities.
Network Security Protection	Collaborate with network information joint defe proactive defense capabilities.

#### Information Security Management

At the management level, the Company enhances its information security management through regular risk identification and assessment, reinforced emergency management protocols, and the implementation of comprehensive security training and awareness programs for both employees and suppliers.

Information Security Risk Assessment	<ul> <li>Conduct annual information security level prant and rectifications.</li> <li>Establish a routine vulnerability scanning implement closed-loop management for vulnerability scanning implement closed-loop management closed-loop management closed-loop management closed-loop management closed-loop management closed-loop management closed-loop managemen</li></ul>
Information Security	<ul> <li>Reinforce emergency preparedness, verifying</li></ul>
Emergency Management	skills through scenario-based simulations.
Enhancement of Information	<ul> <li>Implement a normalized security education</li></ul>
Security Awareness	awareness and protection capabilities across t



Information security and privacy protection disputes/customer privacy leakage incidents: 🚺

#### vernance Structure

ty strategies, standards, and processes addressing national secrets, information. Regularly assess major information leakage risks in business measures.

within their respective departments, ensuring the implementation of

echanism for core business system data, ensuring data integrity and

fense mechanisms, maintaining real-time threat IP updates to enhance

protection to ensure compliance, implementing necessary evaluations

g mechanism, regularly perform system security assessments, and Inerability remediation.

ng the feasibility of emergency plans and refining practical response

on and training mechanism to systematically improve overall security s the organization.

# Nurturing Natural Ecosystems through Green Industry Practices

Contributing to the UN 2030 SDGs



New Hope Liuhe pig farms in Vietnam operate on an ecological circular farming model.



# Sustainable Agriculture

New Hope Liuhe is firmly committed to sustainable development, exploring innovative integrated crop-livestock farming models tailored to local conditions. The Company actively promotes animal welfare protection and addresses the dual challenges of resource scarcity and increasing food demand through natural solutions and systematic synergies, aiming to achieve both ecological and economic benefits.

# **Ecological Circular Farming**

New Hope Liuhe actively responds to the national call for accelerating the development of a circular economy. The Company vigorously promotes the organic integration of pig farming and crop cultivation, implementing and constantly expanding the "pig – biogas – fertilizer – fruit/vegetable/grain" circular agriculture model. This approach involves recycling fermented manure as fertilizer and reusing reclaimed water for irrigation, achieving zero pollutant discharge while promoting soil improvement. By sequestering carbon in plants and soil, it significantly reduces the environmental impact of livestock farming, driving the development of ecological circular agriculture.



Fermented manure fertilizer produced: 104,800 tons

Reclaimed water returned to farmland: 15.7532 million tons

Land designated for nutrient recycling: 79,000 mu, including 30,000 mu of open-field cropland

Fresh fruits and vegetables produced: 2.5759 million kg

Biological carbon sequestration achieved during the year: approximately 94,500 tons of CO<sub>2</sub> equivalent

# Case Guangxi Xiangzhou Integrated Water and Fertilizer Project

In the context of developing circular agriculture, New Hope Liuhe pioneered an integrated water and fertilizer project in Xiangzhou, Guangxi. The Company's three pig farms under Xiangzhou Xinhao Agriculture and Animal Husbandry Co., Ltd. process all waste through stringent standards and advanced technologies to produce high-quality fermented manure fertilizer. This fertilizer is then distributed through an irrigation network to nearly 10,000 mu of sugarcane plantations in the surrounding area, integrating irrigation and fertilization. This integrated crop-livestock farming approach not only effectively improves resource utilization efficiency in pig farming and reduces the environmental impact of manure discharge but also increases the annual income of surrounding farmers.



Stakeholder Voice

"This year, I planted over 1,000 mu of sugarcane, all using integrated water and fertilizer technology. The sugarcane is growing really well. Yields could go up by 20%, and I'm expecting more than 7 tons per mu."

- Feng Wei, a large-scale farmer



# **Animal Welfare Assurance**

New Hope Liuhe has established a comprehensive animal welfare management system and standards, exploring new pathways for sustainable farming. The Company focuses on enhancing the professional skills and awareness of its employees to better meet the physiological and psychological needs of animals, effectively ensuring animal welfare.

The Company conducts annual audits of its animal production operations. In 2024, it performed 100% comprehensive audits of its live pig slaughter processing companies, focusing on procurement and sales aspects, while constantly improving and optimizing animal welfare protection management.

### **Ensuring Animal Welfare**

We strictly adhere to the five basic principles of animal welfare, regulating the use of medications in animal husbandry, and ensuring animals are welltreated in terms of living environment, feed nutrition, and health management.

	Basic Welfare	<ul> <li>Provide ample exercise space and comfortable resting eresting eres</li></ul>
	Breeding Process Welfare	<ul> <li>Maintain optimal temperatures of 15-25° C in boar houses</li> <li>Minimize noise from environmental equipment operation a</li> <li>Provide back rubbing, sitting support, and udder massage</li> <li>Use non-irritating disinfection (clean water) and gentle other diseases.</li> <li>Ensure proper feeding and rest after breeding, avoiding laboration of the second seco</li></ul>
	Piglet Welfare	<ul> <li>Pre-mix groups during fostering to familiarize scents and</li> <li>Supplement appropriate microorganisms, inorganic salts,</li> <li>Provide at least 1 square meter of space per growing-finit 70%.</li> </ul>
_	Health Welfare	<ul> <li>Organize veterinary training to improve comprehensive d selected pig farms, use pseudorabies-negative breeding farms.</li> <li>Implement combined vaccinations in pig farms to reduce '         <ul> <li>Introduce needle-free injection technology to minimize im</li> <li>Focus on researching animal nutritional needs and provid animal growth, avoiding reliance on growth-promoting su</li> </ul> </li> </ul>
	Psychological Welfare	<ul> <li>Prohibit high-intensity assisted farrowing; use plastic pig pigs, allowing them to move freely.</li> <li>Ensure gentle and calm handling during group transfers, p</li> <li>Perform injections simultaneously in corresponding pig pe</li> <li>Implement protective measures during injections to reduce</li> <li>Provide food immediately after injections.</li> <li>Mitigate stress caused by feed restriction during pregnar expanding intestinal capacity, and addressing constipation</li> </ul>

environments. Enhance air filtration systems and spray disinfection pipeline s.

nination, with appropriate nutrition for each growth stage.

adequate ventilation, maintaining overall environmental stability.

health and environmental hygiene.

propriate day-night temperature differences, avoiding disease fluctuations

g, and regularly clean moldy feed to keep pens clean and dry.

es.

and human disturbances to avoid stress from excessive noise.

ge for sows during breeding.

e cleaning of sows' reproductive organs to prevent uterine infections and

large-scale group transfers in early pregnancy.

prevent sows from biting piglets.

, iron, etc., according to growth stages.

hishing pig; maintain temperatures of 15-25° C and relative humidity of 60-

disease management capabilities. Conduct blue ear disease eradication in 9 for new herds, and initiate pseudorabies eradication projects in breeding

the number of injections.

mmunization stress.

de balanced, comprehensive feed to meet the nutritional requirements for ubstances.

paddles instead of iron rods or electric prods when moving or transferring

paying attention to the number of pigs to avoid crowding in passageways. bens on both sides of the same building to offset mutual stimulation. Ice immunization stress and psychological trauma.

ancy by adding dietary fiber to the diet, increasing sows' sense of fullness, on issues.

#### **Standardizing Medication Use**

Reducing Preventive Antibiotic Use. The Company is committed to minimizing antibiotic use and residues through enhanced farming environments, technological advancements, and improved management practices. We have implemented stringent antibiotic usage management protocols and processes, ensuring rigorous control over all medication administration. Throughout the farming process, we prioritize disease prevention by optimizing living conditions, strengthening husbandry management, and boosting animal immunity to reduce disease risks and minimize antibiotic use and residues. By implementing precise medication strategies and robust disease control measures, we ensure more targeted and rational antibiotic use. This approach not only enhances the safety and quality of our livestock products but also helps mitigate the impact of antibiotic residues on the environment and human health.



Regulating Veterinary Drug Use. The Company adheres strictly to relevant guidelines and requirements issued by the Ministry of Agriculture and Rural Affairs. We refrain from adding prohibited veterinary drugs to feed products and pledge not to use growth-promoting substances (e.g., hormones) in animals. When Chinese herbal medicines are permitted in feed, we adhere rigorously to the prescribed dosages in the instructions. Additionally, we are actively developing more environmentally friendly and safer bio-ecological feeds to improve the food safety of animals.

In 2024, the Company reported no incidents of non-compliant veterinary drug use

# Sustainable Operations

New Hope Liuhe is dedicated to green development, strictly complying with national environmental protection laws and regulations, including the Environmental Protection Law of the People's Republic of China and the Environmental Impact Assessment Law of the People's Republic of China. The Company constantly enhances its environmental management system, vigorously promotes clean production, and rigorously controls pollutant emissions, taking concrete actions to contribute to the Beautiful China initiative.

### **Environmental Management**

New Hope Liuhe incorporates environmental management as a strategic issue at the Board-level committees. The Company encourages subsidiaries to pursue environmental system certifications, implements rigorous environmental management standards, standardizes environmental operational management, and establishes long-term environmental protection mechanisms.



Total investment in environmental protection (excluding depreciation): RMB 152.6553 million

Improving Management Frameworks. The Company has established a three-tier environmental management organizational structure: Corporate Safety and Environmental Protection Center of Engineering Operations Department - Pig Sector Safety Operations and Planting Environmental Protection Department - Squad Planting Environmental Protection Departments. These three levels provide mutual oversight and support, ensuring the systematic implementation of environmental protection initiatives.

Safety and Environmental Protection Center of	Collate information on environmental protection investments across Sectors as required by	
Engineering Operations Department	functional departments such as the Board Office.	
Pig Sector Safety Operations and Planting Environmental Protection Department	Coordinate the establishment of environmental protection management systems across squads, providing technical support and data backing.	
Squad Planting Environmental Protection	Implement Sector-specific management systems and actions, accurately monitoring the	
Departments	environmental management status of each project.	

Enhancing Management Systems. The Company has formulated and rigorously implemented the Environmental Protection Management System, clearly defining the environmental protection organizational structure and responsibilities. Based on key environmental management tasks in each Sector, it has developed a series of internal management protocols to systematically promote environmental protection and green development. Each branch and subsidiary has established an Environmental Protection Responsibility System, delineating environmental protection duties for each position. In 2024, the Company introduced new environmental protection management systems, including the Pig BG Farm Water Use and Disposal Assessment System and the Pig Sector Environmental Administrative Penalty Accountability Management Measures (Trial), to more effectively raise employees' awareness of environmental management and mitigate the Company's environmental risks.

Conducting Environmental Performance Assessments. The Company has implemented the Environmental Protection Performance Assessment and Reward & Punishment Management Measures, linking environmental assessments to management's performance bonuses. It sets "zero pollution" as the environmental assessment target for each sector BU and imposes performance deductions on relevant management and key personnel for environmental pollution incidents.

Raising Environmental Awareness. The Company conducts the Pig BG Environmental Station Personnel Technical Certification, covering topics such as wastewater treatment processes, analysis and resolution of abnormal issues, fermentation tank operation and maintenance, environmental protection equipment operation and maintenance, and interpretation of environmental management systems. Through online learning, examinations, and defense, we enhance the environmental management capabilities of frontline employees in the Pig Sector. During the reporting period, 155 employees participated in the training, achieving a pass rate of 87.9%.

Environmental Incident Prevention and Response. The Company prioritizes environmental risk management and has formulated the Environmental Risk Warning and Response Mechanism and the Comprehensive Environmental Inspection System to enhance environmental management. Despite these efforts, 19 environmental penalties occurred in 2024. We have thoroughly reflected on these incidents and taken them as cautionary examples, treating environmental compliance as an inviolable red line and bottom line. We continue to refine our environmental management system, enhance management capabilities, and focus on key improvements. We are strengthening our coordinated response capabilities for environmental risk events, improving handling efficiency, and clarifying responsibility allocation. For details on administrative penalties and corrective measures imposed by ecological and environmental authorities due to environmental incidents, please refer to the "Environment and Social Responsibility" section of the New Hope Liuhe Co., Ltd. 2024 Annual Report.

# Water Resource Management

Water is a crucial resource in pig farming, and its effective management can enhance breeding efficiency while mitigating environmental impact. New Hope Liuhe prioritizes the management and efficient use of water resources, strictly adhering to the Water Law of the People's Republic of China and related regulations. The Company has implemented clear water usage plans and strives to conserve water resources in both production processes and daily operations, promoting water recycling and reducing consumption. The water resources used in the Company's production and operations primarily come from municipal water supply, surface water, and groundwater, with no significant environmental impact in terms of water source selection.

#### Water Resource Use Planning

Indicator	Unit	2024 Target	2024 Performance	2025 Target
Pig farming water intensity	m³/head	2.55	2.5	2.45
Slaughtering and meat processing water intensity	m³/head	0.41	0.35	0.35

Reducing Water Usage Risks. We conduct comprehensive water quality tests quarterly at key sites. For substandard water quality, root cause analysis is performed, and measures such as turbidity treatment and disinfection are implemented to ensure that on-site water supply needs are met.

Strengthening Water Usage Monitoring. We launch upgrades to smart water meters across all facilities, optimizing water well and storage tank metering. Water usage is separately measured for sow farms, fattening farms, and environmental protection areas. Monthly data classification and analysis are conducted at each site to constantly optimize water management. Daily inspections are intensified to eliminate leaks and reduce water waste.

Conserving Production Water, We adjust pressure reduction valves uniformly in buildings to lower pressure, and reduce water level controller heights to achieve water savings while improving pipeline durability. Control floats are added to washing buckets to automatically stop water flow when full, reducing overflow waste during washing. Water curtain operation control is enhanced, with summer water curtain pumps preferably using automatic mode and supply intervals timed to just wet the curtains, improving water use efficiency. Dedicated faucets and washing tools are added to corridors and gestation houses at each site to ensure effective cleaning while reducing water use.

Reducing Maintenance Water. We optimize in-stall limited drinking devices to precisely adjust water flow, with a 60% coverage rate among farmers. Independent rainwater and sewage pipeline systems are constructed to strengthen source control and monitoring, reducing wastewater treatment load and costs, with a current 70% coverage rate among farmers.

Indicator		Unit	2024
Total water withdrawal		million tons	25.3924
	Tap water/municipal water	million tons	4.9336
Water withdrawal by source	Surface water	million tons	0.0074
	Groundwater	million tons	20.4514
Total water discharge		million tons	19.0581
	Municipal network	million tons	2.2891
Water discharge by channel	Surface water	million tons	1.0158
	Reclaimed water for irrigation	million tons	15.7532

# **Packaging Management**

New Hope Liuhe adheres to a strategy focused on reduction, reusability, recyclability, renewability, and biodegradability. By selecting environmentally friendly packaging materials, avoiding over-packaging, and reducing packaging waste generation, the Company promotes sustainable packaging transformation, pursuing both environmental and economic benefits.

**Packaging Reduction:** The Fresh Meat Division of the Pig Sector utilizes larger packaging for B2B customers to reduce overall packaging usage. The Feed Sector incorporates 18,044 tons of recycled plastic, reduces bulk feed woven bag usage, and decreases plastic packaging by 4,305 tons compared to the previous year.

**Packaging Recyclability:** In some relatively impoverished areas of Southeast Asia and other countries, reusable feed packaging bags serve as important production materials for farmers. Accordingly, the Overseas Sector implements a reverse packaging recycling system in certain areas, processing by quality grade: intact packaging enters the second-hand packaging market after quality inspection (priced per piece), while low-quality packaging is sold by weight to recycling channels, promoting closed-loop supply chain management. The Company also collaborates with surrounding villages to establish community recycling co-governance mechanisms, specifying recycling benefit distribution through agreements to return circular economy benefits to farmers and villagers.

**Packaging Reusability:** In chick transportation scenarios, the Overseas Sector prioritizes the use of recyclable plastic crates to reduce reliance on single-use cardboard packaging. A deposit system is implemented to encourage crate returns, supporting the establishment of a traceable and circular reuse system.



The Overseas Poultry Division promotes the use of recyclable transit crates.

KEY<br/>PERFORMANCETotal packaging material usage: 23,966.3 tons<br/>Plastic packaging usage: 23,347.71 tons, with the Feed Sector reducing usage by<br/>4,305 tons compared to the previous year<br/>Paper material usage: 407.6 tons; foam material usage: 214 tons

### **Pollution Prevention and Control**

New Hope Liuhe strictly adheres to and implements various environmental protection laws and regulations, including the Law of the People's Republic of China on Water Pollution Prevention and Control, the Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution, the Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste, and the National Hazardous Waste Inventory. The Company has established the Solid Waste Management System and the Hazardous Waste Management System to rigorously control pollutant generation and recycling, the Company strives to minimize solid waste emissions. Additionally, it has intensified efforts in treating and controlling exhaust gas and wastewater, implementing multiple measures to mitigate the environmental impact of its production and operations.

Waste Category		ste Category	Waste Source		
	Exhaust Gas	Odor	Generated from livestock manure and urine, feed residues, and digestive tract gases.	<ul> <li>Implement inte frequency in pi ventilation syste</li> <li>Utilize deodori odorous gases particulate matt gases with emu</li> </ul>	
		Biogas	Generated from livestock manure fermentation.	• Harness on-site	
	Wast	Breeding wastewater	Comprising animal urine, partial feces, and cleaning water.	<ul> <li>Employ advanc CSTR, and black slurry suitable for</li> </ul>	
	Wastewater	Domestic wastewater	Discharged from company offices and employee canteens.	<ul> <li>Perform regular ensure compliar</li> </ul>	
Solid Waste		Hazardous waste	Comprising medical waste, pesticide and herbicide residues from production processes, and laboratory-generated waste reagents, acids, and alkalis.	<ul> <li>Implement a Ha and treatment p</li> <li>Provide designa detailed record safe and compli</li> </ul>	
	Solid V	Dead livestock and poultry	Animals that perish during breeding processes.	<ul> <li>Adhere strictly temporary stora compliant stora</li> </ul>	
	<b>/</b> aste	Solid manure	Solid waste separated by manure scrapers or solid-liquid separators.	<ul> <li>Apply high-te Specification for field application</li> </ul>	
		Construction and domestic waste	Generated from construction activities and daily operations.	<ul> <li>Establish the s collection poin prohibit unauth</li> </ul>	

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	Indicator	Unit	2024
	Total wastewater treated	million tons	18.1396
stewater .	Chemical oxygen demand (COD) emissions	tons	9,811.33
	Total ammonia nitrogen emissions	tons	496.77
	Pig farming wastewater recycling rate	%	93.34
	Slaughtering and meat processing wastewater recycling rate	%	41.10
1 I. X. A. (	Total non-hazardous waste generated	tons	316,024.45
lid Waste -	Total hazardous waste generated	tons	5.42

### Disposal Method

telligent program-controlled manure cleaning methods and optimize pig houses, coupled with indoor temperature regulation and enhanced tems to minimize odor generation.

prizing chambers for spray-based odor removal, effectively capturing as in liquid form through spraying. Eliminate odor molecules adhering to atter from the air via wet absorption and oxidation, while reacting odorous mulsifying agents in the solution for efficient removal.

e energy sources for power generation and heating.

nced treatment processes including UASB anaerobic + two-stage A/O, ck membrane biogas to convert wastewater into reclaimed water or biogas for field irrigation.

lar self-inspection and third-party testing of effluent water quality to ance with standards before discharge into municipal networks.

Hazardous Waste Management System to standardize collection, storage, t processes.

nated temporary storage facilities in hazardous waste rooms, maintain rds, and regularly transfer waste to qualified third-party institutions for pliant disposal.

ly to the Standard for the *Treatment of Dead Livestock and Poultry* for orage and disposal, maintain meticulous record-keeping, and prohibit nonrage methods and unauthorized burial.

temperature aerobic fermentation treatment in accordance with the for the Treatment of Solid Manure to produce nutrient-rich fertilizer for ion.

e *Solid Waste Management System*, install clearly marked, fixed waste ints throughout facility areas, implement waste classification, and strictly ithorized dumping, discarding, burying, or burning.

# **Addressing Climate Change**

The escalating frequency of extreme weather events due to climate change has transformed environmental risks from long-term concerns into urgent realities. In response, the public increasingly expects companies to assume a proactive leadership role in addressing climate change. As a responsible enterprise, New Hope Liuhe is actively advancing the development of a robust climate risk governance system. This initiative includes establishing a scientific climate risk assessment mechanism, comprehensively identifying and managing climate risks and opportunities, and evaluating the potential impacts of climate change on business operations and the whole industrial chain, thereby enhancing climate resilience and driving green, low-carbon development.

# **Climate Governance**

New Hope Liuhe has progressively established a comprehensive climate change governance structure. This framework is spearheaded by the Board of Directors and the Strategy and Sustainable Development Committee, with operational management serving as the core. The Safety and Environmental Protection Center, along with the Planting Environmental Protection Departments, Administrative Departments, etc. of all sector BUs, function as the primary implementing bodies. This top-down approach ensures the continuous and systematic implementation of climate governance initiatives.

<b>Board of Directors</b> Strategy and Sustainable Development Committee	<ul> <li>Decide on the Company's climate change-related strategic planning. Provide oversight on climate change risk and opportunity-related matters. Review climate change-related targets. Evaluate reports from operational management on climate change issues and offer strategic recommendations.</li> </ul>
Operational Management	<ul> <li>Orchestrate the development of major policies and strategic plans. Identify climate change-related risks and opportunities and integrate them into operational considerations. Manage climate change-related targets. Spearhead the implementation of climate change response and low-carbon development initiatives.</li> </ul>
Safety and Environmental Protection Center Planting Environmental Protection Departments, Administrative Departments, etc. of all sector BUs	<ul> <li>Develop action strategies, establish goals, create annual plans, and define performance indicators aligned with the Company's operational context.</li> <li>Execute headquarters' strategies and objectives, driving project implementation and plan execution. Coordinate and deploy energy conservation and carbon emission reduction measures across various sites and squads. Collate and analyze relevant data to foster closed-loop management of energy conservation and carbon emission reduction emission reduction efforts.</li> </ul>

# **Climate Strategy Planning**

Based on the outcomes of climate-related risk and opportunity assessments, New Hope Liuhe has proactively integrated climate change response and "dual carbon" initiatives into its strategic planning, comprehensive risk management system, and daily operational management. The Company has developed a three-year "dual carbon" strategic plan (2023-2026), focusing on five key areas: green electricity utilization, biogas utilization, water recycling, biological carbon sequestration, and carbon trading. These efforts aim to vigorously promote energy conservation and carbon emission reduction. The Company continues to monitor emerging fields and new demands in the transition to a low-carbon economy, emphasizing sustainable agriculture to enhance development resilience and foster sustainable growth.

	Objective	Progress	
Green Electricity Utilization	By 2026, significantly increase the proportion of green electricity usage across all Sectors, achieving full coverage of photovoltaic projects for all feasible installations throughout the Company's operations (i.e., feed, pig).	<ul> <li>Implemented 3.98 MW of newly grid-connected photovoltaic projects, with total operational photovoltaic projects reaching 15.22 MW.</li> <li>Operational photovoltaic projects generated 11.7468 million kWh of greer electricity, reducing greenhouse gas emissions by approximately 6,878.93 tons of CO<sub>2</sub> equivalent.</li> </ul>	
Water Recycling	Vigorously develop water recycling models, including reclaimed water irrigation and manure fertilization, directly reducing water resource consumption and indirectly decreasing energy consumption in fertilizer production processes.	<ul> <li>Promoted reclaimed water irrigation, with a total of 15.7532 million tons of reclaimed water used for field irrigation, significantly reducing water resource consumption.</li> </ul>	

	New Hope Liuhe's "Dual Carbo	n" Three
	Objective	
Carbon Trading	Actively promote carbon sink project certification (GS, VCS, etc.) in the Pig Sector to obtain substantial carbon emission reductions for offsetting the Company's carbon emissions.	<ul> <li>The A 182,50 goals.</li> <li>Other carbon</li> </ul>
Biological Carbon Sequestration	Steadily advance crop cultivation (wheat, corn, etc.), fruit tree planting (peach, tangerine, apple, etc.), and forest protection on nutrient recycling land for the Pig Sector (including farmland and forestland) to offset the Company's carbon emissions through biological carbon sequestration.	• Biolog CO <sub>2</sub> ec

# Impact, Risk, and Opportunity Management

New Hope Liuhe proactively addresses the risks and impacts associated with climate change. The Company has established a comprehensive climate change risk management process, conducts thorough assessments to identify climate-related risks and opportunities, and formulates strategic action plans to respond to climate change.

Risk/Opportunity	Description	Potential Financial Impact	Response Measures
Physical Risks			
Extreme Weather	Increased frequency or intensity of floods, typhoons, and extreme rainfall events adversely affect the growth, processing, and transportation of upstream raw materials essential for production. These events also pose significant safety risks to employees and may lead to disruptions in factory operations, impacting business continuity. Furthermore, such incidents can cause damage to tangible assets and construction equipment, resulting in increased expenditure on facility maintenance and repairs.	Operating costs ↑ Revenue ↓ Asset value ↓	<ul> <li>Closely monitor extreme weather conditions and conduct comprehensive assessments of their impact on suppliers and their response capabilities; diversify supplier base to reduce reliance on single-source suppliers.</li> <li>Develop robust emergency plans and secure necessary resources for extreme weather events; conduct regular emergency drills to enhance preparedness and response capabilities.</li> <li>Incorporate regional climate risk assessments into the selection and planning processes for new projects.</li> </ul>
Temperature Rise	<ul> <li>Rising temperatures may adversely affect the health of employees and livestock, impact equipment performance, and increase operating costs.</li> <li>More frequent or larger-scale power outages due to rising temperatures may pose significant production stoppage risks for the Company.</li> </ul>	Operating costs ↑ Revenue ↓ Asset value ↓	<ul> <li>Implement effective cooling measures and work time management strategies for high-temperature operations, and provide appropriate protective resources to employees.</li> <li>Constantly monitor livestock breeding environments, implement proper cooling measures, and ensure suitable growth conditions for animals.</li> <li>Improve overall production efficiency through energy- saving technology upgrades and optimization of the energy structure.</li> </ul>



Risk/Opportunity	Description	Potential Financial Impact	Response Measures
Transition Risks	5		
Policies and Regulations	<ul> <li>Increasingly stringent national policy requirements and accelerated energy structure transition may lead to higher energy costs and increased regulatory compliance risks as the Company adapts to new policy frameworks.</li> <li>The Shenzhen Stock Exchange's evolving sustainability disclosure requirements will gradually strengthen climate-related information disclosure mandates, posing new challenges for the Company's climate change management and reporting practices.</li> </ul>	Operating costs ↑	<ul> <li>Proactively engage with local policy authorities to stay abreast of environmental and carbon-related legislative changes; conduct timely studies and disseminate information on policy updates; anticipate policy adaptability needs and improve internal management and compliance disclosure practices.</li> </ul>
Market and Technology	Stricter customer requirements for product carbon emission reduction and the increasing importance of green low-carbon technology deployment will significantly impact the Company's competitiveness, necessitating increased investment in low-carbon transition initiatives.	Operating costs ↑ Revenue ↓	<ul> <li>Strengthen the adoption of low-carbon technologies, accelerate agricultural green transformation efforts, and systematically reduce the carbon footprint of products.</li> <li>Conduct comprehensive carbon audits, develop carbon emission reduction pathway plans, and thoroughly assess the return on investment and feasibility of low-carbon transition projects prior to implementation.</li> </ul>
Reputation	<ul> <li>Increasingly stringent environmental performance disclosure requirements lead to higher compliance costs associated with maintaining or enhancing the Company's reputation.</li> <li>Failure to meet publicly stated carbon emission reduction commitments may expose the Company to accusations of greenwashing from investors and the public, potentially causing significant damage to brand reputation and corporate image.</li> </ul>	Operating costs ↑ Revenue ↓	<ul> <li>Ensure timely disclosure of the Company's climate change mitigation measures, including strategic planning, objectives, actions, and performance metrics.</li> <li>Implement rigorous controls on the Company's disclosures, eliminate any potential for false or misleading information, and ensure consistency between reported information and actual operational practices to build a more credible and responsible corporate image.</li> </ul>
Transition Oppo	rtunities	1	'
Resource Efficiency	production proceeded, thereby remaining operating		<ul> <li>Widely implement energy-saving technologies and equipment across all production processes, and establish comprehensive energy consumption management procedures to reduce energy costs.</li> <li>Develop and enhance ecological circular breeding systems to maximize resource utilization and minimize waste generation.</li> </ul>
Energy Structure	Increase utilization of renewable energy sources (e.g., distributed photovoltaic systems and biomass fuels) to drive energy use structure transformation, reduce carbon emission intensity, and lower overall energy costs.	Operating costs ↓	<ul> <li>Actively promote the development of distributed photovoltaic and wind power projects to increase the proportion of green electricity usage.</li> <li>Gradually increase the use of clean energy sources, particularly biomass fuels.</li> </ul>
Market	Enhance agricultural carbon sequestration capabilities through innovative crop-livestock integration models, and develop agricultural carbon sink projects to promote synergies between environmental protection and economic benefits.	Revenue ↑	Further expand the industrial model of circular agriculture to increase carbon sink storage capacity in farmland soils and crops. Actively promote biological carbon sequestration initiatives and carbon asset development programs, and participate strategically in carbon trading markets.



Photovoltaic installation on multi-story pig farms

# **Low-Carbon Emission Reduction Actions**

New Hope Liuhe strictly adheres to the requirements of laws and regulations such as the *Environmental Protection Law of the People's Republic of China* and the *Energy Conservation Law of the People's Republic of China*. The Company integrates green and low-carbon operational concepts throughout its production processes, focusing on clean energy transition, equipment energy efficiency improvement, and carbon asset development and management. These initiatives contribute to the realization of the national "dual carbon" goals.

# **Clean Energy Transition**

The Company actively promotes the utilization of clean energy sources such as photovoltaics and biogas, gradually achieving diversification and a cleaner energy structure to reduce greenhouse gas emissions.

#### Promotion of Distributed Photovoltaic Applications

With the goal of achieving full coverage of all feasible photovoltaic projects across all Sectors by 2026, the Company is steadily advancing their construction through a three-step plan. During the reporting period, photovoltaic power generation projects were completed in Guangzhou, Meizhou, and other locations, fully utilizing warehouse roof spaces to constantly increase the proportion of clean energy use. In 2024, 11 photovoltaic projects were operational, with a total installed capacity of 15.22 MW, covering an area of 141,200 square meters, and generating 11.7468 million kWh of electricity. Four additional photovoltaic projects with a total installed capacity of 3.92 MW are under construction or planned for 2025.

### **Biogas Reuse**

Biogas is a versatile clean energy source that can replace traditional fuels to generate heat and electricity, serving as a gaseous fuel in production operations. The Company vigorously promotes biogas reuse projects at various pig farms. At farms equipped with biogas boilers, purified biogas is used for internal heating, reducing gas consumption. Additionally, the Company is actively exploring biogas power generation models, using purified biogas to generate electricity for pig farm use, thereby reducing on-site electricity consumption.

# **Boosting Energy Efficiency**

The Company consistently refines its energy management system, implementing the Energy Saving and Consumption Reduction Guidebook. Based on actual business needs and development, it sets specific energy usage targets, establishes clear energy control measures, and strictly regulates energy consumption to constantly improve energy efficiency and management standards.

Energy Usage Planning

Sec	tor	Indicator	2024 Target	2024 Performance	2025 Target
Feed Busines that of the		Natural gas (m³)	51,000,000	65,890,866	72,500,000
Overseas Sector)	tor, and Pig	Electricity (kWh)	538,457,098	863,110,000	940,000,000
	Breeding	Natural gas (m³)	29,050,603	38,214,419	37,100,000
Pig Breeding		Electricity (kWh)	1,046,367,865	615,580,366	598,000,000
and Slaughter	Fresh Meat	Natural gas (m³)	-	2,875,515	3,000,000
		Electricity (kWh)	-	48,730,000	54,000,000

Note: In 2024, the Company restructured its main business into two major sectors: i) feed and ii) pig breeding and slaughter. For the first time, energy use performance and planning for feed have been consolidated across the Feed BU, the Overseas Sector, and the Pig Sector. The Pig Sector enhanced intelligent energy management in breeding facilities in 2024, resulting in significant electricity and water savings in the latter half of the year. However, increased production lines during winter led to higher natural gas consumption. Furthermore, the Company's feed and slaughter capacity targets for 2025 are set to increase compared to 2024, leading to substantial changes in energy consumption performance and next year's targets relative to previously established budget goals.

Operational Optimization. The lighting schemes are optimized by implementing alternating lighting measures based on actual light intensity across all production lines. Farrowing houses employ a "two off, three on" lighting strategy, while fattening houses use either "two off, four on" or "four off, two on" to reduce electricity consumption for lighting. Boiler operation is adjusted by optimizing the start-stop frequency to minimize natural gas consumption. Smart meters are installed on air conditioners in living area dormitories, implementing intelligent timing control based on production needs to reduce electricity waste.

Equipment Upgrade. The use of solar equipment is expanded to harness abundant solar resources during summer, raising water temperature and reducing energy consumption. Electric water heaters are gradually replaced with air-source heat pumps at all access points, reducing electricity consumption while improving water supply capacity and stability. Operation timers are added to gas equipment, monitoring heating operation time for each housing unit based on daily operational data. Units with longer operation times are closely supervised and subject to timely improvements to reduce gas consumption. Heat recovery equipment is increased to improve residual heat recovery and boiler thermal efficiency, achieving energy savings and increased efficiency.

Monitoring and Inspection. An environmental monitoring platform is established to visually display overall equipment energy consumption. The squad team is responsible for monthly analysis and ranking of energy consumption data for each area to ensure timely monitoring and optimization of energy management. Regular inspections are conducted at key points such as pigsty doors, windows, openings, wall edges, secondary manure ditches, auger pools, and horizontal ventilation openings. Proper sealing of gas pipelines and facilities is ensured, with prompt implementation of sealing measures to reduce gas waste.

KEY PERFORMANCE

Energy-saving Training. Comprehensive energy efficiency training is conducted, sharing best practices in electricity and gas conservation and explaining application requirements to raise employee awareness of energy conservation. During the reporting period, six energy management training sessions were held, recording 24,800 attendances, including management, production, and safety and environmental protection personnel from branches and subsidiaries of both the Pig Sector and the Feed Sector.

Indicator	Unit	2024
Diesel consumption	liters	11,761,478.46
Gasoline consumption	liters	1,275,137.06
Natural gas consumption	million m <sup>3</sup>	106.9808
Purchased electricity	million kWh	1,527.4204
Operational photovoltaic power generation	million kWh	11.7468
Photovoltaic electricity usage	million kWh	9.8641
Purchased steam	tons	458,390.45
Comprehensive energy consumption	tons of standard coal equivalent	404,713.72
Comprehensive energy consumption intensity	tons of standard coal equivalent/ RMB 1 million revenue	3.93

# **Carbon Asset Development**

Enhancing the carbon sink function of ecosystems is a nature-based solution to offset carbon dioxide emissions from human activities and a crucial means to achieve "dual carbon" goals. Leveraging its corporate strengths, New Hope Liuhe utilizes land for Pig Sector consumption to actively participate in biological carbon sequestration and promote carbon asset development, achieving a synergistic balance of ecological, environmental, and economic benefits.



In June 2024, the Company entered into a Carbon Asset Development and Trading Service Entrustment Agreement with Sinopec Carbon Industry Technology Co., Ltd. This agreement further advances the Company's strategy in emission reduction and carbon mitigation, underscoring its role as a leading domestic agricultural and animal husbandry enterprise and contributing to the realization of national "dual carbon" goals. In October 2024, the Company's inaugural emission reduction project to reach a carbon credit trading agreement with Volkswagen, the Anhui Wuhe Animal Husbandry VCS Project, officially provided Volkswagen with 182,500 tons of carbon credits to support their net-zero emissions production goals. Additionally, the Company has approximately 90,000 tons of carbon credits from other emission reduction projects pending sale and about 160,000 tons of carbon credits awaiting issuance

# **Indicator and Target Management**

Guided by its "Dual Carbon" Three-Year Strategic Plan (2023-2026), New Hope Liuhe meticulously plans its carbon emission reduction roadmap and consistently monitors goal achievement status.

Indicator	Unit	2024
Direct greenhouse gas emissions (Scope 1)	tons of $CO_2$ equivalent	264,591.66
Indirect greenhouse gas emissions (Scope 2)	tons of CO <sub>2</sub> equivalent	930,406.76
Total greenhouse gas emissions	tons of $CO_2$ equivalent	1,194,998.42
Greenhouse gas emission intensity	tons of $CO_2$ equivalent/RMB 1 million revenue	11.59

Note: Greenhouse gas emissions refer exclusively to carbon dioxide emissions and do not encompass other greenhouse gases such as methane and nitrous oxide from alternative emission sources. Scope 1 greenhouse gas emissions: Emissions from fossil fuel combustion activities including diesel, gasoline, natural gas, and industrial production processes. Emission factors are calculated in accordance with the national standard GB/T 32151.25-2024 Requirements of the Greenhouse Gas Emission Accounting and Reporting—Part 25: Food, Tobacco, Alcohol, Beverage and Refined Tea Enterprise. Scope 2 greenhouse gas emissions: Emissions resulting from purchased electricity and heat. The electricity emission factor utilized in 2024 refers to the national average power grid factor in the Announcement on the Release of Carbon Dioxide Emission Factors for Electricity in 2022 (Announcement No. 33 of 2024) jointly issued by the Ministry of Ecology and Environment and the National Bureau of Statistics.



Cultivating fruits and vegetables on land for pig farm consumption to diversify on-site meals



# Land Use and Biodiversity Protection

New Hope Liuhe places significant emphasis on biodiversity protection, consistently promoting a development model characterized by agricultural and animal husbandry circulation and integrated crop-livestock farming. The Company implements preventive measures and restoration work to mitigate the ecological impact of its production and operational activities, fostering the sustainable development of agricultural ecosystems.

# **Biodiversity Protection**

Throughout the planning, design, construction, and daily operations of pig farm projects, the Company adheres to relevant laws, regulations, and policies, including the Environmental Protection Law of the People's Republic of China, the Environmental Impact Assessment Law of the People's Republic of China, the Law of the People's Republic of China on Prevention and Control of Soil Contamination, and the Opinions on Further Strengthening Biodiversity Protection. The Company prioritizes the protection of original natural vegetation and habitats in development areas, implementing multiple measures to minimize the impact of facility construction and operation on habitats and the ecological environment. This approach safeguards the Earth's ecosystem and achieves harmony between development operations and the environment. During the reporting period, the Company refrained from establishing new operating points in government-designated key ecological function areas or regions with significant biodiversity value. Furthermore, no protected or restored habitats were severely impacted due to new projects.

#### **Biodiversity Protection Commitments**

Production and Operation	<ul> <li>We adhere to national land use guidelines for livestock and poultry breeding facilities, respecting arable land preservation limits and the "Three Lines and One List" (i.e., the ecological protection red line, the environmental quality baseline, the resource utilization upper limit, and the ecological environment access list) ecological zoning control policy. We commit to refraining from production and operational activities in World Heritage sites and ecologically sensitive areas. We prohibit deforestation and avoid operating in nature reserves, key ecological function areas, scenic spots, and other prohibited breeding zones and arid water-scarce regions, pledging to protect local water sources and ecosystems.</li> <li>We employ scientific methods to assess the biodiversity impact of site selection for livestock and poultry farms and their production activities. We implement appropriate measures to mitigate negative impacts and enhance positive outcomes on local biodiversity.</li> <li>We conduct thorough scientific evaluations of potential impacts on surrounding ecosystems for all our projects. In response to increasingly frequent extreme weather events, we develop comprehensive protection measures and restoration plans for post-disaster scenarios. Our efforts focus on protecting and restoring native or indigenous vegetation on our operational lands, maintaining soil health, preventing soil erosion, and increasing carbon sequestration.</li> </ul>
Upstream and Downstream Management	<ul> <li>We procure and utilize natural resources and raw materials sustainably to minimize damage to biodiversity and ecosystems.</li> <li>We are committed to strengthening communication and collaboration with external stakeholders to jointly promote biodiversity protection and ecological restoration initiatives.</li> </ul>

### Land Use Improvement

New Hope Liuhe strictly adheres to relevant land use laws and regulations in its operational areas to ensure compliance in land development, utilization, and reclamation activities. The Company has established clear objectives for soil and water conservation, vegetation restoration, and soil improvement as part of its land use strategy. A comprehensive environmental monitoring mechanism has been implemented to ensure the continuous and effective execution of land use improvement initiatives through regular monitoring and assessment.

Soil Improvement	The Company consistently enhances its research on manure treatment technologies and soil improvement models. It employs advanced processes such as UASB anaerobic + two-stage A/O, CSTR, and black membrane biogas to treat production wastewater. High-temperature aerobic fermentation technology is utilized to produce nutrient-rich fermented manure. Taking into account factors such as terrain, soil properties, crop types, and fertilization stages, the Company has developed standardized field application models. This approach optimizes the utilization and conversion of liquid fertilizer, enhancing soil organic matter content and fertility, improving soil structure, reducing chemical fertilizer usage, and significantly enhancing the local ecological environment.
	For more information on soil improvement initiatives, please refer to the "Sustainable Agriculture" section of this report.

Land Reclamation

The Company proactively engages in ecological restoration and soil reclamation efforts. Grass is strategically planted on exposed surfaces within farm areas to effectively prevent soil erosion while enhancing the aesthetic appeal of the farm environment. A notable example is the 6,750-sow farm project in Nali Village, Datang Town, Liangging District, Nanning City, Guangxi, which includes a retaining wall slope protection project with a substantial grass planting area of 39,115 square meters. At the 72,000-head fattening farm in Haikou, over 14,000 square meters of grass have been planted within the farm premises, significantly bolstering the stability and resilience of the local ecosystem.



Retaining wall slope protection project in Datang Town

#### Germplasm Resource Protection

The livestock and poultry breeding industry serves as the "chip" of animal husbandry, representing a strategic and foundational core industry that safeguards national food security, food safety, and ecological security. New Hope Liuhe has consistently invested in breeding efforts, achieving breakthroughs in challenging projects such as pig and duck "chips," thereby making substantial contributions to the protection of superior germplasm resources. For more detailed information on the Company's breeding research initiatives, please refer to the "Nutrition and Health R&D" section of this report.

# Case in National Science and Technology Progress Award

Since 2012, New Hope Liuhe has been at the forefront of duck "chip" technology development, leveraging its integrated breeding, reproduction, and promotion systems at farming bases to rapidly establish a robust breeding infrastructure. To accelerate the breeding cycle, the Company has adopted advanced molecular breeding techniques, seeking genetic-level breakthroughs and expanding poultry hybridization experiments to more than 10 times the traditional scale of 100 birds. Through rigorous analysis and statistical evaluation of extensive sample data, the R&D team successfully identified "super genes" that significantly influence duck weight and body shape. The effective utilization of these genetic markers has become a core competitive advantage in the Company's duck breeding program. In 2024, the "Efficient Duck Breeding Technology Creation, New Variety Cultivation, and Industrialization" achievement won the second prize in the National Science and Technology Progress Award, marking New Hope Liuhe's sixth and seventh recognition with this esteemed honor.



# **Co-creating Value to Achieve Common Prosperity**

Contributing to the UN 2030 SDGs

65 | Co-creating Value



Chairperson Liu Chang visits a broiler farm of Egyptian farme



# **Empowering Employees**

New Hope Liuhe adheres to a people-centric development philosophy, recognizing diligent workers as its most valuable asset. The Company actively safeguards employee interests, establishes platforms for employee growth, prioritizes occupational health and safety, and fosters a harmonious and friendly workplace atmosphere. It strives to attract, develop, and retain talent, share the fruits of its growth with employees, and create a win-win environment where corporate success and employee development go hand in hand.

# **Employee Rights and Well-being**

The Company has integrated human rights protection as a core corporate responsibility. It strictly complies with national laws and regulations, including the *Labor Law of the People's Republic of China* and the *Labor Contract Law of the People's Republic of China*. The Company endorses and respects the *ILO Declaration on Fundamental Principles and Rights at Work*, and adheres to local regulations and policies in its operational areas. It effectively safeguards employees' legal rights, respects cultural diversity, implements diverse communication mechanisms, and encourages employee participation in corporate governance, thereby fostering an equal and inclusive workplace environment.

Governance	Strategy and Management Approach	
<ul> <li>Complete the revision of management systems including the Human Resource Management Regulations, New Employee Probation Management Measures, Employee Resignation, Retirement, Re-employment and Rehiring Management Measures, Rest and Leave Attendance Management Regulations, and Employee Code of Conduct, encompassing prevention of forced labor, fair employment, and other pertinent content.</li> <li>Establish a workers' congress system to ensure employees' rights to participation and oversight.</li> </ul>	<ul> <li>Consistently promote diverse and equal employment, explicitly prohibiting any form of workplace discrimination, violence, or conflict.</li> <li>Develop reasonable working hour systems and labor intensity standards, ensuring employees' rights to rest and leave, enhancing employee benefits, enriching employees' leisure activities, and implementing employee care and support programs.</li> </ul>	
Impact, Risk, and Opportunity Management	Indicators and Targets	
<ul> <li>Mitigate risks such as employment discrimination and forced labor through policies, systems, and training initiatives.</li> <li>Regularly conduct training and cultural integration activities to address compliance risks and cultural conflicts in overseas employment, identifying potential issues.</li> </ul>	• Routinely investigate and evaluate the management of employee rights and benefits, maintain open channels for employee feedback, and promptly adjust and constantly improve the employee rights protection and benefits management system.	

# **Rights Protection**

The Company steadfastly adheres to legal employment practices and consistently updates internal management systems such as *Human Resource Management Regulations, New Employee Probation Management Measures, Rest and Leave Attendance Management Regulations, New Employee Handbook,* and *Employee Code of Conduct.* Regular promotional training is conducted to standardize ethical behavior policies, violence and conflict policies, prevention of forced labor, prohibition of child labor, fair employment and diversity, anti-discrimination, working hours and leave, and other fundamental rights-related content, thereby safeguarding employees' legal rights.

#### **Equal Employment and Freedom of Choice**

In the recruitment process, the Company adheres to the principles of openness, fairness, justice, and merit-based selection, adopting a two-way selection approach. It eliminates any form of recruitment discrimination, selects talent based on job requirements, and does not discriminate based on race, color, gender, age, belief, or other factors, providing equal employment and development opportunities for all employees. The Company has established a comprehensive compliance employment management system, strictly implements the labor contract system, prohibits the use of child labor and forced labor, and respects employees' rights to freely choose their employment. It commits to publishing objective and truthful recruitment information for job seekers to choose freely, does not restrict employees from engaging in specific work or work that does not align with their wishes, and supports employees in pursuing their personal career goals and development.

#### Anti-discrimination and Anti-harassment

In accordance with the requirements related to the protection of female employees and human rights policies, the Company clearly states in its *Human Resource Management Regulations* that it strongly opposes workplace harassment, including but not limited to physical harassment, psychological harassment, sexual harassment, verbal harassment, or abuse, fostering a mutually respectful work environment for employees. We maintain a zerotolerance policy towards any form of harassment and discrimination, clearly specifying disciplinary actions for harassment in our regulations, and expect every employee to actively monitor and report violations. For any behavior that violates our standards, we will conduct a thorough investigation and take serious action against violators. We encourage and support good-faith complaints or feedback on violations, and implement whistleblower protection measures to ensure the confidentiality of all complaints and respect the privacy rights of those involved. Any retaliatory actions will be met with severe consequences.

#### Working Hours and Leave

The *Rest and Leave Attendance Management Regulations* clearly define working hour systems and overtime management norms, establishing a scientific working hour management system and reasonable labor intensity standards, actively ensuring employees' rights to rest and leave. The Company provides paid annual leave that exceeds national policy requirements and offers flexible working hours. It guarantees maternity leave for women as required by the state, and provides marriage leave, bereavement leave, and paternity leave for male employees in accordance with local regulations at various operational locations. During the reporting period, we piloted an additional 2 hours of welfare leave per quarter to enhance employee satisfaction.

The Company encourages employees to improve work efficiency and complete their daily tasks within the specified time. Except for special and urgent situations, the Company discourages overtime work and strengthens management's responsibility for efficiency oversight, strictly controlling the frequency of overtime, and establishing a long-term mechanism to balance work and life.



Labor contract signing rate: 100%

Employee discrimination incidents: ()

# **Employee Benefits and Welfare**

The Company is committed to providing a comprehensive and diverse range of benefits and welfare programs for employees. We have implemented multiple initiatives to safeguard both the physical and mental well-being of our staff, organizing a wide array of cultural activities to promote work-life balance and enhance employees' sense of security, achievement, and happiness. These efforts aim to foster team cohesion and a sense of belonging, creating a warm and harmonious work environment.

#### Welfare Guarantee

The Company offers a multifaceted approach to employee benefits, with detailed explanations of various welfare programs and allowance standards outlined in the *Welfare and Allowance Management Measures*. These encompass social insurance and housing provident fund contributions, accident insurance coverage, holiday entitlements and paid leave, employee activities, and compassionate assistance programs, all designed to enhance employee satisfaction and well-being.

Statutory Benefits: The Company offers social insurance, housing provident fund, paid leave, parental leave (including maternity leave), and bereavement leave, among others.

**Distinctive Benefits:** The Company provides a range of additional benefits such as free accommodation and meals, annual health check-ups, meal allowances, communication subsidies, transportation allowances, housing subsidies, holiday gifts and bonuses, condolence funds, welfare leave, and our Wonderland of New Hope Liuhe surprise box activities. Special benefits are also tailored to local customs in various operational areas, such as offering Eid al-Fitr and Eid al-Adha allowances in the Bangladesh company.

# Employee Care

We are deeply committed to addressing employees' needs and concerns. Our ongoing initiatives, such as the Good Mutual Assistance Association and the Warm Heart Project, demonstrate the corporate culture of care and responsibility. In 2024, the Company launched the Wonderland of New Hope Liuhe employee care service platform, featuring monthly surprise box activities, quarterly paid welfare leave, and interactive Mood Station spaces. These initiatives are designed to enhance cohesion and vitality across the organization. From July to August, we implemented the Frontline Employee Care Campaign, organizing a series of themed activities including heartwarming care, safety awareness, cultural events, and learning sharing sessions, all aimed at improving frontline employees' satisfaction and sense of belonging.



100% idents: ()



Since its establishment in 2014, the Good Mutual Assistance Association has assisted

2.865 families, with total aid amounting to RMB 28.4127 million. In 2024, the Good Mutual Assistance Fund raised RMB 3,993 million, assisting 496 families with a total aid of RMB 5.5051 million.

### **Diverse Activities**

We enrich employees' lives through a variety of cultural and sports activities, fostering interaction and communication among staff members. These initiatives help create a harmonious team atmosphere and build a united workforce striving towards common goals.



Basketball tournament in the Philippines Region

### **Diversity and Inclusion**

The Company champions a culture of diversity and inclusion, taking into account various factors such as employees' gender, cultural background, and experience. We have established an equal opportunity framework that spans the entire employee lifecycle, from recruitment and compensation to training and promotion. This approach fosters a fair and inclusive workplace ecosystem and cultivates a diverse talent pipeline.

Supporting Female Employees' Development. We actively work to eliminate gender discrimination and prioritize the protection of female employees' rights. The Company strictly adheres to national policies on maternity leave, parental leave, and breastfeeding leave, and has installed nursing rooms in all office locations. We organize a series of activities for International Women's Day to enrich the cultural lives of female employees and reinforce our commitment to respect and care. We provide equal training opportunities for female staff, encourage and nurture them for management positions, and ensure that capable female employees can fully participate in company management, leveraging their unique strengths.

Caring for Special Groups. We make accommodations for employees with disabilities by arranging appropriate job positions based on their individual capabilities. This approach constantly improves workplace inclusivity and contributes to the Company's sustainable development.

Respecting Cultural Diversity. We offer specialized support and assistance to ethnic minority employees, respect all employees' freedom of religious belief, and have established prayer rooms in all our offices. Overseas subsidiaries actively promote equality and diversity, encourage cross-cultural understanding, and honor local traditions. During Western holidays such as Valentine's Day and Christmas, they organize celebratory events to help local employees feel respected and valued, demonstrating the Company's appreciation for cultural traditions and fostering a workplace atmosphere of inclusiveness and unity.



### **Daycare Summer Camp for Employees' Children**

From August 5-16, 2024, the Company's Qingdao platform organized a two-week special daycare program for employees' children, providing diverse summer camp learning activities for over 30 children.





Proportion of women in management positions: 14,12% Proportion of women in middle management: 14,08% Proportion of women in senior management: 20%Proportion of women in the reserve management talent pool: 26,68% Proportion of women holding management positions in revenue-generating functions: 3 39% Proportion of ethnic minority employees: 7,71% Proportion of employees with disabilities: 0.49%

### **Equal Communication**

The Company remains committed to a people-oriented approach and has taken multiple measures to advance democratic management. It has formulated the Detailed Rules for the Implementation of the Workers' Congress and ensures the disclosure of company rules, regulations, notices, and announcements through channels such as the workers' congress and the OA system. These efforts fully safeguard employees' rights to information, participation, and oversight, while enhancing their involvement in corporate governance. To further strengthen corporate transparency, the Company continues to improve its open management practices and communication mechanisms, fostering a strong sense of ownership among employees. This contributes to democratic decision-making, fair and just stakeholder relations, and a harmonious, united workforce. In 2024, the Company promoted the establishment of workers' congresses and trade unions across all business units, forming a structured mechanism for democratic management. All major corporate decisions and policy revisions followed strict democratic procedures, including open disclosure and the solicitation of employee feedback.

Active Solicitation of Employee Feedback: The Company actively solicits employee input through multiple channels, including email, open telephone lines, and the "Mood Station" on the Wonderland of New Hope Liuhe platform. We have refined our employee feedback mechanism, maintaining an open-door policy for suggestions. Our employee service platform features an HRSEC hotline and a Feishu service desk to receive employee input, suggestions, or queries, enabling us to address employee concerns promptly and establish a sustainable, effective mechanism.

**Democratic Supervision:** The Company has established clear channels for complaints and whistleblowing. All reports submitted by employees are subject to thorough investigation, with strict confidentiality maintained throughout the process, safeguarding employees' legal rights and supporting the sustainable and healthy development of the Company.



The Company holds the first meeting of the fourth workers' congress.

### **Talent Attraction and Retention**

The Company adheres to a talent-first strategy, implementing comprehensive talent management practices. It actively promotes diverse recruitment channels, offer competitive industry-level salaries and attractive benefits, and has developed a differentiated, tiered, and classified talent system. It has also created a distinctive corporate training program to energize employees at all levels, providing both talent assurance and intellectual support for high-quality development. This holistic approach aims to achieve optimal person-job fit, effective talent identification and utilization, team activation, and organizational unity.

Governance	Strategy and Management Approach
• Revise management systems, including the <i>Employee Promotion/</i> <i>Demotion Management Measures</i> , and introduce new policies such as the <i>Trial Measures for Cadre Point Management</i> and <i>Trial</i> <i>Measures for Cadre Probation Management</i> . Ensure standardized and legally compliant procedures for promotion, incentives, and training, thereby providing a fair, transparent, and stable career development platform.	<ul> <li>Implement a "talent first" strategy, focusing on the full lifecycle management of selection, utilization, cultivation, and retention. Create a differentiated, tiered, and classified talent system to promote person-job fit and diverse development opportunities.</li> <li>Enhance the tiered talent cultivation system and key professional capability framework. Constantly improve the management of the New Hope Academy online platform to foster a learning organization.</li> <li>Develop differentiated compensation structures and incentive mechanisms tailored to various job types to motivate employees and nurture an entrepreneurial spirit.</li> </ul>
Impact, Risk, and Opportunity Management	Indicators and Targets
<ul> <li>Conduct regular talent inventory for key management and professional positions. Apply the results to inform promotion, development, and incentive processes, thereby mitigating the risk of skill mismatches in critical roles.</li> <li>Develop well-structured training plans to avoid setting overly ambitious training goals without sufficient resources or providing training content that is misaligned with industry trends, which could compromise the effectiveness of employee skill development.</li> </ul>	<ul> <li>Constantly monitor and analyze key metrics, including training expenditure, training hours, and training coverage, to effectively track and evaluate progress.</li> <li>Establish specific indicators, such as the reserve rate of mature successors for key positions and the retention rate of high-potential talent. Regularly monitor the achievement status of these indicators to strengthen the talent pipeline and retention strategies.</li> <li>Implement monthly turnover monitoring and analysis for key positions. Pay close attention to turnover rates in critical roles and among frontline production staff.</li> </ul>

### **Talent Pipeline Development**

The Company is committed to developing core operational and professional capabilities, aligning with its business development strategy. It conducts in-depth analyses of both long-term and short-term strategic objectives to define clear directions for business expansion and technological innovation. Leveraging the results of talent inventory, the Company assesses team capability alignment and core position competencies, forecasts both long- and short-term talent gaps, and formulates talent allocation plans that meet business development needs, thereby ensuring a sustainable talent supply.

The Company adheres to the principles of fairness and professionalism in recruitment processes. To this end, it has established diverse talent acquisition channels, including campus recruitment, social recruitment, employee referrals, school-enterprise partnerships, and internship programs. These channels enable us to attract a wide range of exceptional talent and enhance the efficiency of matching candidates to suitable positions. Our interviewers undergo rigorous selection, training, and assessment before they are cleared to conduct interviews. They are also subject to regular comprehensive evaluations to maintain fairness and professionalism throughout the interview process. Furthermore, we actively seek feedback from candidates regarding their interview experiences, allowing us to constantly refine and optimize our procedures.



Key Performance 2024 (person:			2024 (persons)
		Total number of employees	41,327
		Male employees	31,852
	Number of employees by gender	Female employees	9,475
		Employees aged 30 and under	12,291
	Number of employees by age	Employees aged 31-50	23,749
		Employees aged 51 and above	5,287
Employee		Senior management	10
hiera N u n educ	Number of Chinese employees by hierarchical level	Middle management	1,428
		Frontline employees	39,889
	Number of employees by	Employees with high school diplomas or under	13,993
		Employees with associate degrees	11,064
	educational level	Employees with bachelor's degrees	13,710
		Employees with graduate/MBA degrees or above	2,560
	Number of employees by region	Employees from China (including Hong Kong, Macao, and Taiwan)	33,912
	realiser or employees by region	Overseas employees	7,415
New hires during the reporting period		6,325	
Newly recruited fresh graduates		262	

### **Employee Development**

New Hope Liuhe has established and constantly refines its employee training and growth system. The Company has implemented internal policies such as the *Internal Lecturer Management Measures* and *Learning Platform Management System*, exploring employee learning and development models tailored to the organization's unique characteristics. Through a multifaceted, systematic, tiered, and specialized talent development system, we provide employees with extensive opportunities for growth and career advancement.



Total er
Total tra
Total er
Employ
Average

### PERFORMANCE

2024
RMB 6.7563 million
37,600
1184,002.38
76%
28.65

### **Tiered Leadership Development**

The Company has established a comprehensive management talent supply chain and enhanced its tiered management talent training system. Through various talent development initiatives such as EMBA, Mid-level Training Program, the Hope Plan, and the New Talent Training Camp, it cultivates and retains outstanding talent for various levels of management. This approach allows us to build a robust pipeline of operational management cadres and enhance the leadership and operational capabilities of both current and future management teams.



### Tiered Development System for Management Talent

		Tiered Training Courses
New Employees	New Talent Training Camp	The Company has implemented a comprehensive new talent development strategy centered on centralized learning, follow-up guidance, and on-the-job experience. In 2024, we completed online centralized training for 310 new employees, facilitating their successful transition into their professional careers.
Management	EMBA Program	The Company has launched the EMBA program for high-performing, high-potential internal talent. The aim is to complement academic qualifications and enhance capabilities, integrating seamlessly into the Company's leadership development system. The program is designed to cultivate senior managers in the Chinese agricultural, animal husbandry, and food industry who possess systemic thinking, outstanding leadership skills, and innovative spirit. In 2024, we conducted 8 course activities across 2 cohorts, training a total of 84 mid to senior-level managers. The program achieved a trainee satisfaction rate exceeding 92%.
	Management and Leadership Training	The Company has organized specialized training classes for key personnel in our feed and pig farming operations. These classes focus on developing the skills necessary to excel as a general manager, including cultivating an operational mindset and comprehensive management abilities. The training aims to transform managers of professional tracks and production sites into qualified, well-rounded operational leaders. In 2024, our feed business Mid-level Training Program selected 45 high-potential talents, while the Pig BG Mid-level Training Program identified 41 high-potential individuals for development.

### **Professional System Development**

To enhance critical professional roles such as nutrition technology, quality control, and veterinary medicine, the Company has implemented a comprehensive capability system for key professional tracks. We organize specialized training programs to bolster professional competencies in the Feed Sector and the Pig Sector, thereby fostering long-term competitive advantages.



Core strength training for the pig farming business

High-Potential Quality Control Officer Training Camp, Quality Control Elite Program	Through its High-Potential Quality Control Officer Trai courses and tailored professional curricula. This initi- track, providing them with developmental empowerm quality control officers as reserve quality control ma ensuring a continuous pipeline of talent for key positio
Nutrition Technology Specialized Training	The Company has reinforced talent development in support business operations, facilitating the emerge training to 40 high-potential quality control and techn
Veterinary Specialized Training	The Company has implemented a comprehensive carr progression pathways and realizing the full implement training bases across various squads and organized 15 achieving a 93% pass rate in training assessments.



Veterinary system advanced studies

Nutrition technology specialized training

aining Camp, the Company has implemented regional best practice tiative targets 220 high-potential personnel in the quality control ment. From this cohort, we selected 42 outstanding high-potential nanagers and enrolled them in the Quality Control Elite Program, ions in the quality control track.

in the nutrition technology track to enhance product quality and gence of exceptional talent. In 2024, we provided empowerment inical personnel.

reer development system for the veterinary track, establishing clear entation of training certification processes. In 2024, we established 15 professional empowerment training sessions for 257 veterinarians,

### **Enhancing Online Training**

Focusing on core business areas, the Company has constructed a digital learning system for key talent. It consistently optimizes the New Hope Academy online platform, fostering the development of a learning organization. In 2024, we integrated our training platform with daily office systems, empowering 1,700 core staff members. The total online learning time for the year reached 172,918.38 hours, with 13,610 attendances, averaging 12.71 hours per employee.

### **Expanding External Resources**

The Company actively cultivates partnerships with external professional institutions, integrating high-quality educational resources to provide employees with diverse learning and development opportunities. In 2024, we obtained independent evaluation qualifications for senior animal husbandry technicians and senior veterinarians, deeply engaging in the cultivation and certification of leading talents in the agricultural and animal husbandry industry. This initiative promotes continuous improvement in both the quantity and quality of senior talent.

### Internal Trainer Development

To promote the accumulation and transfer of knowledge and skills, the Company consistently strengthens its internal trainer team. It has formulated the Internal Lecturer Management Measures to standardize certification and operational management, provide empowerment training, and motivate internal trainers through annual excellence awards, benchmark promotions, and class hour incentives. These efforts enhance teaching standards and provide robust faculty support for our internal training. During the reporting period, we continued to advance internal trainer certification and development, incorporating these into employee development systems such as promotion, assessment, and excellence evaluation.

### Promotion and Incentives

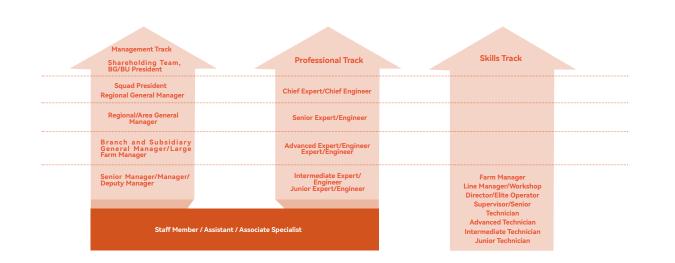
The Company places great emphasis on employee development, stimulating potential by constantly refining employee promotion management systems and compensation incentive mechanisms. We encourage employees to excel in their roles and make significant contributions, offering comprehensive career development support and fair, open advancement opportunities.

### **Clear Career Development Paths**

Based on the talent structure characteristics of our industries and sectors, the Company has created differentiated, tiered, and classified talent systems for personnel with varying attributes. We have established three major career tracks: "M" for management and operational talent, "P" for key sequence professional talent, and "O" for vocational skills talent. Each career track is further divided into multiple sequences and job types, offering employees diverse development paths.

The Company conducts regular talent inventory for key management and professional positions, comprehensively evaluating the quantity, structure, and competency of talent at all levels, and formulating capability development plans for talent echelons. In 2024, we consistently improved our talent evaluation standard system, establishing competency profiles and evaluation criteria for key management position successors. These are applied in critical management processes such as reserve talent selection, training, promotion, and assessment. We also optimized qualification standards for professional sequences including technical R&D, quality control, and veterinary medicine, serving as standard criteria for professional talent selection, promotion, and external recruitment.

Based on assessment results, we newly introduced the Trial Measures for Cadre Point Management and Trial Measures for Cadre Probation Management, and revised the Employee Promotion/Demotion Management Measures. These clearly define promotion cycles, qualification conditions, and review processes, providing employees with equitable and transparent promotion channels and development opportunities.



### **Competitive Compensation and Incentive System**

The Company prioritizes comprehensive employee remuneration, adhering to the principle of equal pay for equal work. It has developed differentiated compensation strategies and incentive mechanisms tailored to various job roles, encompassing both fixed compensation and variable incentives. This approach ensures employees receive fair compensation for their work while motivating them to innovate and contribute to the organization's success. Fixed compensation is disbursed monthly based on predetermined amounts, primarily considering employees' key competencies, including work experience, educational background, position, and market scarcity. Short-term incentives, such as special bonuses or annual bonuses, are designed to motivate the achievement of company, departmental, and individual performance targets. Medium to long-term incentives comprise equity incentives and bonus pool incentives, primarily offered to core employees to align the interests of shareholders, the Company, and employees, while retaining key talent. We regularly monitor and assess market compensation levels and annual salary increases to ensure our remuneration packages remain competitive. Additionally, we closely link compensation to the Company's overall operating performance and individual achievements, maintaining internal equity.

Living W	/age	<ul> <li>Employees' living wages are determined based on log and housing costs. The living wage is set to be no le conditions, wages are paid in full, with average actual</li> </ul>
Different Compen Structur and Ince Mechani	sation es ntive	<ul> <li>Performance-sharing system is implemented for mana</li> <li>Piece-rate system is implemented for frontline product</li> <li>Commission-based system is implemented for sales p</li> <li>Position-grade salary and a performance-based wage</li> </ul>
Equity-based Medium to Long-term Incentives	Equity Incentives	<ul> <li>In accordance with the 2022 Employee Stock Incenshares and employee stock ownership plans, as well a</li> <li>The Company launched the 2024 Employee Stock implementation of its long-term incentive mechanism</li> <li>The equity incentive mechanism includes individual evaluation levels.</li> </ul>
o Long-term Incentives	Bonus Distribution	<ul> <li>Bonus Pool Distribution Mechanism: The Compa financial results, operational excellence, and risk cor BUs that are assessed using profit-based accrual met helps balance incentive intensity across different years</li> <li>Rolling Retention Mechanism: For core personnel, disbursed only after passing the following year's comp</li> </ul>



Total employee compensation: RMB 5,909,9388 million

### Strengthening Performance Evaluation and Incentives

The Company has established a comprehensive corporate performance indicator database based on the Performance Management Measures. This system incorporates multi-dimensional performance evaluation criteria, including work achievements, work ethic, and adherence to daily behavioral norms. We employ an agile performance management method, conducting differentiated assessments by level and layer on a quarterly basis to ensure fair and effective performance evaluations. Throughout the evaluation cycle, we emphasize continuous performance communication, primarily through face-to-face interviews. Department heads and supervisors regularly assess employees' work progress and address any issues, providing appropriate support. Following the assessment, the employee's direct supervisor provides feedback on the evaluation results, discussing strengths and areas for improvement, while also outlining the next work plan. For employees rated C or D, we analyze and diagnose problems, propose improvement measures, and collaboratively develop clear improvement goals and pathways.

ocal average salaries, economic conditions, consumer price indices, less than the local minimum wage standard. Under full attendance al wages significantly exceeding the living wage.

- agement and functional employees.
- ction workers.
- personnel.
- ge system is implemented for hourly employees.

ntive Plan, the Company unlocked the second phase of restricted as the first phase of reserved restricted shares granted in 2023. ock Ownership Plan targeting core personnel, advancing the m to retain and motivate key management and core staff. performance evaluations, with unlocking ratios linked to different

any evaluates performance based on three key indicators: core ontrol. It has implemented a bonus reserve mechanism for sector ethods, especially in years with high market volatility. This approach ars for both headquarters executives and sector BUs. allocated bonuses are subject to a rolling retention mechanism,

prehensive evaluation, discouraging short-term thinking.

Furthermore, the Company has enhanced its performance feedback mechanism, establishing channels for employee performance feedback and appeals. If employees have objections or concerns regarding their performance evaluation results, they can submit a written appeal to the Human Resources Department within five working days of completing the assessment, providing relevant supporting documentation. Upon receiving a written appeal, the Human Resources Department conducts a thorough investigation of the matter. If the investigation reveals misconduct or serious dereliction of duty by relevant personnel, or fabrication of facts by the appealing employee, the Company will take appropriate disciplinary action.

### **Occupational Health and Safety**

The Company strictly adheres to the requirements of laws and regulations such as the Work Safety Law of the People's Republic of China and the Law of the People's Republic of China on the Prevention and Control of Occupational Diseases. It has improved the production safety management protocols and regulations, enhanced production safety management standards, and effectively safeguarded employees' lives, company assets, and the safe operation of various production facilities, contributing to the Company's stable operation and sustainable development. As of the end of 2024, 55 of our branches and subsidiaries have obtained Level 3 Production Safety Standardization certification, covering all business operations as well as contractors and suppliers.

### **Production Safety Management**

### **Refining Management Mechanism**

The Company has intensified its focus on production safety management awareness and refined its internal management systems. These include the Production Safety Management System, Production Safety Incident Management System, Production Safety Incident Accountability Management System, and Confined Space Safety Management Measures. We constantly enhance our production safety management framework, establishing clear production safety objectives and plans while implementing a comprehensive production safety responsibility system. Annually, employees at all levels sign a Production Safety Responsibility Agreement, with adherence to this agreement incorporated into performance evaluations. We have also linked safety performance to executive compensation, ensuring that safety responsibilities are clearly delineated down to departmental and individual levels. Moreover, the Company has integrated production safety into its audit process, conducting rigorous annual reviews of the implementation of relevant systems. When issues are identified, we take swift corrective actions and diligently track their implementation to effectively elevate our production safety management standards. In 2024, the Company achieved 100% of its production safety management objectives.

Production Safety Objectives	2024 Achievement Status
Implementation of the production safety information platform	Achieved
Completion of the safety officer certification training plan	Achieved
Major risk control	Achieved
Pilot program for feed mill equipment management and production safety coordination; feed mill inspections	Achieved
Production safety management during major holidays	Achieved

### Organizational Structure for Production Safety Management

Safety and Environmental Protection Center of Engineering Operations Department	This center is tasked with formulating company-wide production safety regulations, providing guidance, supervision, inspection, and evaluation of production safety work across all operational levels, and driving the implementation of production safety initiatives.
Production Safety Management Organizations at Various Levels These organizations form the foundation of our production safety management system. The safety management tasks.	
Branch and Subsidiary Production Safety Management Organizations	These entities are charged with establishing and maintaining comprehensive production safety management systems and mechanisms within their respective branches and subsidiaries, ensuring alignment with company-wide requirements.

### **KEY** PERFORMANCE

Total production safety investment: RMB 92.9281 million Number of injured employees: 107 Major production safety Incidents: () Work-related fatalities (including dispatched workers): 4 Lost time injury frequency rate (LTIFR) \*: 73,19 \*LTIFR = (Number of lost time injuries) / (Total working hours in the accounting period) x 1,000,000

Total injury rate: 0.21% Employee injury rate per thousand: 2.1%Lost workdays due to work-related injuries: 1.036 **Dual Prevention Mechanism** 

In accordance with the Safety Risk Classification Guidance, the Company has instituted a dual prevention mechanism for safety risk hierarchical control and hidden danger investigation and management. Each subsidiary and branch company conducts comprehensive safety risk identification, assessment, and control tailored to their specific types and characteristics. They focus on identifying potential production safety hazards to effectively prevent various safety incidents. Furthermore, subordinate units are encouraged to establish production safety reporting systems, broadening channels for employee participation in production safety supervision and management, thereby strengthening production safety oversight.

	Safety Risk Hierarchi
Safety Risk Identification	We develop scientific safety risk identifica characteristics. We comprehensively conc update it regularly. Our safety risk identific
Safety Risk Assessment	We evaluate and categorize identified sa causes of accidents, harmful substances,
Safety Risk Control	We implement effective control measures such as engineering technology, manager response. We have established a com production safety education and skills tra grasps the basic situation of safety risks a

	Production Safety Hazard
Hazard Investigation Responsibility System	We have established and implemented a extends from key personnel to general em production safety hazard investigations, e time to participate in on-site hazard invest
Comprehensive Hazard Investigation	We have improved various inspection met comprehensive inspections, professional inspections, accident analogy inspections,
Hazard Information Disclosure	We have established production safety h through information boards or other mean
Time-Limited Rectification of Hazard Items	For identified production safety hazard i time-limited rectifications, adhering to measures, time, standards, and personnel hazards, we ensure the "Five in Place" (i.e contingency plans) policy.



Branches and subsidiaries covered by safety empowerment and supervision inspections: 376Safety hazards identified: 22,968 Safety management suggestions and recommendations proposed: 4,218 Safety hazard rectification rate: 99 29%

### ical Control

ation procedures and methods customized to each unit's types and nduct safety risk identification, establish a safety risk database, and fication process covers every critical production process and stage.

afety risks, comprehensively considering causal factors, inducing and injury modes to determine safety risk categories.

es for safety risks based on their characteristics, addressing aspects ement, education and training, personal protection, and emergency nprehensive safety risk notification system and strengthened raining to ensure that management at all levels and every employee and preventive and emergency measures.

### rd Investigation

production safety hazard investigation responsibility system that mployees. We provide necessary funding and technical support for ensuring production safety management personnel have sufficient stigations.

ethods for production safety hazards, including daily inspections, inspections, seasonal inspections, key period and pre-holiday pre-resumption inspections, and expert diagnostic inspections.

hazard information archives and announce them to employees

items, we promptly require relevant departments to implement the "Five Determinations" (i.e., determining the responsibility, el) principle and conducting closed-loop management. For major .e., rectification measures, responsibility, funding, time limits, and

### **Reinforcing Emergency Management**

The Company rigorously adheres to the Emergency Response Law of the People's Republic of China and the Measures for the Administration of Contingency Plans for Work Safety Incidents. It has developed a comprehensive Emergency Management Plan and refined the responsibility system for responding to production safety emergencies. We actively promote the establishment of production safety emergency response teams or emergency rescue command centers across the organization. For potential safety incidents, we have developed a robust emergency plan system to prevent and mitigate significant risks. Dedicated or part-time emergency rescue teams have been formed, equipped with essential protective gear and emergency supplies. Mutual aid agreements have been established with neighboring enterprises. Regular emergency drills and practical training are conducted annually, aiming to enhance employees' ability to respond to unexpected events and safeguard the lives and property of our workforce and the public. In 2024, the Company conducted a total of 1,656 emergency drills for production safety.

### Managing Contractor Safety

The Company has standardized its contractor management process within the Production Safety Management System. Prior to contractors engaging in specific activities at our production and operation units, we implement a thorough vetting process, rigorously assessing their production safety qualifications and past performance. We establish clear production safety requirements and responsibilities by signing safety management agreements with contractors. Our team regularly inspects contractors' safety conditions, monitors their operations for safety compliance, evaluates their performance, and promptly addresses any issues identified. During operations, if a contractor violates our production safety regulations and refuses to rectify the situation, we mandate an immediate cessation of their activities. In the event of a first or second-level production safety incident caused by a contractor, we internally publicize their information throughout the Company.

### Handling Safety Incidents

The Company adheres to the principles of "hierarchical management, seeking truth from facts, respecting science, and the four-no-exemption rule." It has implemented a Production Safety Incident Management System and a Production Safety Incident Accountability Management System to standardize the approach to managing and handling safety incidents. Following an incident of any scale or type, the responsible unit leader promptly initiates emergency rescue efforts to minimize casualties and property damage. We form an incident investigation team to conduct internal inquiries, regularly assess the situation, and implement thorough corrective measures to eliminate safety hazards completely. Our accountability system for production safety incidents assigns direct responsibility and leadership accountability based on the severity and nature of the incident. Furthermore, in cases of work-related injuries, we strictly adhere to relevant laws and policies by providing timely and fair compensation to affected employees and their families, while also offering psychological support and humanitarian assistance.

### **Promoting Safety Awareness**

The Company embraces a people-centric, education-first approach to cultivate a distinctive safety culture. We emphasize employee education and training on production safety laws, regulations, knowledge, and operational skills. This strategy aims to enhance our workforce's sense of responsibility towards production safety, improve their professional capabilities, and refine their operational skills. We guide all employees to prioritize production safety at a fundamental level, constantly improving overall safety consciousness and execution.





Distribution of emergency response cards at production sites to enhance



Production safety training sessions conducted across various levels: 11 827 Employee attendance in production safety training: 7,162,135 Total hours of production safety training: 505.127



### **Occupational Health Protection**

The Company prioritizes employee safety during operations, safeguarding their lives, health, and associated rights. It meticulously follows the requirements set forth in the Law of the People's Republic of China on the Prevention and Control of Occupational Diseases and the Management Rules for Labor Protection Supplies of Employers. We have enhanced our occupational health management system, standardizing aspects such as frontline employee training, provision of personal protective equipment, and operational process management. Our team conducts comprehensive hazard risk assessments for key positions to identify and eliminate potential occupational health risks. We organize regular occupational health examinations for employees in toxic and hazardous positions, diligently conduct occupational health awareness campaigns and training, and have established the Employee Injury Incident Handling Procedures to boost frontline employees' self-rescue and mutual aid capabilities. As of the end of 2024, 20 of our branches and subsidiaries have obtained ISO 45001 Occupational Health Management System certification, encompassing all business operations as well as contractors and suppliers.

In 2024, the Company established a comprehensive emergency response mechanism. We encouraged various office platforms, branches, and subsidiaries to form dedicated emergency rescue teams, conducting extensive emergency rescue training and practical drills in office areas. Additionally, we disseminated first aid knowledge to all employees through live online broadcasts and recorded sessions, ensuring widespread accessibility.

Fresh Meat Division: The Division has formulated an Occupational Hazard Emergency Rescue Plan, equipped its facilities with emergency rescue devices, and conducts regular emergency response drills. Every three years, a qualified third-party agency is commissioned to conduct an occupational hazard assessment and provide an evaluation report. The Division also conducts regular testing of occupational hazard factors related to production processes, workplace environments, and operational activities—including noise, dust, and toxic gases—to ensure all indicators remain within acceptable limits

Overseas Sector: The Sector has improved its occupational health-related policies and documentation, in accordance with the laws and regulations of each host country, to safeguard employee health. Measures include regular monitoring of the working environment, periodic health examinations, and the organization of first aid training sessions. Among them, the Indonesia Region has progressively optimized positions with occupational disease risks and introduces psychological health consultation services for employees. Throughout the year, dynamic monitoring and continuous improvement are conducted, ensuring a reduction of risk points by over 10% annually. The region achieves 100% coverage of occupational health examinations and increases employee participation in psychological health consultations by 5% each year. The Myanmar Region has procured comprehensive commercial insurance for employees with a total coverage of 10 million Myanmar Kyat (approximately RMB 34,000) and organizes annual health examinations.



Employee occupational health examination coverage rate: 45,34%; Pre-employment **PERFORMANCE** and annual physical examination coverage rate: 100% Investment in occupational injury insurance for employees: RMB 19,155 million Occupational injury insurance coverage rate for employees: 57.63%

## **Empowering Farmers**

New Hope Liuhe constantly fulfills its corporate mission of "benefiting farmers and serving consumers." By leveraging its efficient, intensive management system and comprehensive industrial chain resources, the Company collaborates with farmers to explore mutually beneficial pig farming models. It has innovated inclusive financial services to address farmers' financing challenges, thereby empowering the standardization and modernization of agriculture and animal husbandry with financial "living water."



In 2024, New Hope Liuhe's Pig Sector established partnerships with over 3.400 family farms across 23 provinces nationwide. Through the "company + farmer" model, 8.89 million fattened pigs were marketed, generating RMB 3 billion in income for farmers.

### **Assistance Model**

To help farmers address the challenge of cost competitiveness, the Feed Sector has introduced the innovative "company + farmer" assistance model. Leveraging our extensive resources and capabilities in procurement, nutritional formulation, and market analysis, we provide eight comprehensive supporting services for large-scale pig farm clients. These services include piglet procurement, nutritional solutions, financial support, African swine fever prevention and control, pig insurance, animal health services, farming technology, and pig sales services. This model helps clients achieve lowrisk, high-efficiency, and worry-free pig farming. Furthermore, we have integrated the Jianzhubang farm data management software, meeting the production data and operational needs of large-scale pig farm owners. This enables them to monitor pig production dynamics in real-time, making pig farming more manageable and efficient for farmers.

Compared to traditional pig farming models, our assistance model offers three core advantages through full integration, full synergy, and full professionalism, comprehensively helping farmers improve their pig farm economic benefits.

Eight Major Services of the Assistance Model		
Piglet Procurement	We assist farms in sourcing high-quality local piglets or New Hope Liuhe's internal piglets, adhering to stringent double-negative standards.	
Nutritional Solutions	We provide precise product packages tailored for large-scale pig farms, fully meeting the nutritional needs of pigs at various growth stages.	
Financing Support	We resolve financing difficulties, delays, and high costs through New Hope Liuhe's financial platform and inclusive guarantees.	
African Swine Fever Prevention and Control	We strictly adhere to four levels of biosafety classification to ensure environmental and product safety.	
Pig Insurance	We help farms purchase comprehensive insurance to secure the pig farming process.	
Animal Health Services	We offer New Hope Fenglan animal health products and over 200 specialized animal health testing services.	
Farming SOPs	We provide technical guidance, on-site services, process control, and farming SOPs to optimize operations.	
Pig Sales Services	We professionally assess market conditions, connect multiple sales channels, and ensure rapid capital turnover for farmers.	

### **Financial Support for Agriculture**

The Company amalgamates resources from banking, insurance, and other sectors, leveraging the agricultural and livestock industry chain to innovate a guarantee-centric supply chain financial model. This approach constantly enhances our inclusive guarantee services. Through our specialized teams operating across 28 provinces and cities nationwide, we offer financing guarantee services to both upstream and downstream clients within the industry chain. This initiative addresses the challenges of difficult and costly financing for agricultural industry chain participants, thereby establishing a robust foundation for advancing industry chain development. By the end of 2024, the Company has served 212,700 instances cumulatively, facilitating RMB 75 billion in financing, effectively supporting and benefiting the agricultural sector.

### **Financing Guarantee Services**

Adhering to the principle of "government support, bank cooperation, farmer participation, and market operation," the Company actively promotes innovation in business models, operational processes, risk prevention, institutional frameworks, and management systems. We have established a multitiered credit guarantee system, offering 35 specialized products across 7 major categories. Additionally, we consistently develop and optimize financing channels, effectively reducing financing costs for farmers.

In 2024, the Company delved deeper into bank-enterprise cooperation models, forging partnerships with state-owned banks, joint-stock banks, city commercial banks, and foreign banks. By leveraging our expertise in risk management for farmers, we have collaborated with 22 banks, securing a total credit line of RMB 12 billion

### Case **Empowering Agricultural Industry Upgrade through Inclusive Guarantees**

Yang Limei, a pig farmer from Pingdu City, Shandong Province, has been engaged in pig farming since 2009. She initially constructed 6 pig houses with a capacity of 1,000 pigs but faced working capital constraints when expanding her operation. The Company promptly provided a working capital loan of RMB 600,000. In 2020, when Yang initiated the construction of a modern farming facility and encountered further financial challenges, we increased her loan limit to RMB 3 million. Through years of technological upgrades, Yang's old sheds have been transformed into a standardized fattening farm with 2,000 pigs, reaching a total stock of 6,500 pigs. This has resulted in an average annual income increase of over RMB 2 million, establishing it as a notable modern standardized fattening pig farm in the area.





Before and after comparison of Yang Limei's pig house upgrades

Wei Kaipeng from Pingvi County began chicken farming in 2015. In 2018, responding to the call for standardized construction, he built 10 modern sheds with a capacity of 300,000 chickens. Facing a capital shortage due to equipment purchases, our guarantee company provided an equipment loan of RMB 3 million. Through a value preservation contract with Liuhe Pingyi Cold Storage Plant, direct supply of chicks, feed, and medicine was achieved, effectively reducing farming costs. After the project's implementation, annual revenue exceeded RMB 5 million, enabling Wei to clear all loans within three years and expand to a 390,000-chicken capacity. In 2021, when his farm faced an infectious laryngotracheitis outbreak, the Company proactively issued an RMB 1 million loan for support, facilitating rapid production recovery and helping Wei overcome operational difficulties. He has now become one of the largest direct suppliers of meat chickens in the area.



Before and after comparison of Wei Kaipeng's standardized chicken house renovation

### **Building an Integrated Industry-Finance Platform**

The Company's supply chain financing initiative began in 2007, initially offering guarantee loans to downstream farmers in the feed industry through traditional offline models with substantial collateral and strong guarantees. In 2021, we completed the construction of our industry-finance platform, focusing on resolving the challenges of difficult financing and high interest rates for industry chain clients. In 2024, we established an upgraded version of the supply chain financial service platform, forming an inclusive agricultural industry chain financial model with "data layer + product layer + risk control layer + scenario layer." This enhancement further improved loan efficiency and better served our broader agricultural and livestock clientele. As of the end of 2024, the platform had served 13,934 industry chain clients cumulatively, with a total loan amount reaching RMB 30.283 billion.

Customer-Centric Approach, Meeting Industry Chain Financing Needs	<ul> <li>Upstream and downstream clients in our Feed Sector and Pig Sector can access financing through the platform.</li> <li>We actively expand funding channels and products, allowing clients to choose suitable financing products based on their experience preferences, interest rate preferences, and term preferences.</li> </ul>
One-Stop Service, Enhancing Industry Chain Client Financing Experience	<ul> <li>We have achieved data integration across various internal business systems, including core ERP and cloud farming systems, and implemented bank-enterprise direct connections through API, SDK, and other methods.</li> <li>Financing clients can complete loan applications and manage the entire loan lifecycle in real-time using mobile terminals, without leaving their homes.</li> </ul>
Creating Win-Win Cooperation, Building New Hope Liuhe's Financial Platform	<ul> <li>We have realized the alignment of capital, demand, industry, and fintech information services through a tripartite transaction structure involving capital providers, clients, and core enterprises.</li> <li>Industry chain clients can select financing products and apply for loans based on their transaction scenarios, scale, and financing preferences, meeting their operational needs.</li> <li>Banks can leverage our industrial fintech services to precisely target small and micro inclusive loans.</li> </ul>

## **Community Engagement**

New Hope Liuhe consistently fulfills its social responsibilities and strives to be an amicable investor. The Company is committed to enhancing feed grain reduction and substitution levels, thereby contributing to food conservation efforts. Through brand-driven philanthropic activities, we aim to inspire hope, create value for local communities in our operational areas, and foster a positive atmosphere of compassion and social responsibility.

### Safeguarding Food Security

The eradication of poverty and the elimination of hunger are critical global challenges. Feed grain conservation is particularly vital for China's food security. As a leading feed enterprise, New Hope Liuhe launched the Grain Saving Special Action in 2022. The initiative aims to improve feed efficiency by 1% annually for five consecutive years, potentially saving 1.5 million tons of grain, equivalent to conserving over 3 million mu of arable land. In 2024, the Company further intensified its grain-saving initiatives across multiple sectors, including livestock breeding and farming, feed formulation and production, and grain and feed storage and transportation.



Shandong Feed Industry Efficiency Improvement and Quantity Reduction Grain-Saving Demonstration Product - Low Protein Amino Acid Balanced Feed

5th Feed Industry Innovation Product Technology Selection Event - Quality Improvement and Efficiency Enhancement Feed Demonstration Product





yield from **1 33** million mu of cultivated land.

2024 Grain Saving Performance	A total of 667,300 tons of grain were saved Of this total: – 565,000 tons of grain were saved thro 245,000 tons of corn); – 102,300 tons of grain were saved throug! by continuously improving PSY, reducing t reach 115 kg live weight).
Grain Saving Alliance Actions and Achievements	<ul> <li>Collaborated with Northeast Agricultur Exploration and Safe Utilization of Non-G non-grain feed resources, achieving overa resource shortages and grain import press</li> <li>Conducted corn-saving initiatives in con Feed Resources as Corn Substitutes," a su Plan.</li> <li>Implemented soybean-saving measures to New Product Creation for Protein Feed Bio Program for the 14th Five-Year Plan.</li> </ul>



New Hope Liuhe has integrated globally leading enzyme hydrolysis technology, microbial fermentation processes, lowprotein diets, and precision nutrition formulation systems. By leveraging near-infrared technology, databases, and digital nutrition systems to improve the utilization of biological raw materials, the Company has established a comprehensive biological feed product matrix covering all categories of livestock, poultry, and aquaculture. This initiative benefits 86,000 farmers across 29 provinces, helping cooperative farms increase annual income by RMB 23,000 per 100 head of livestock, while promoting the resource utilization of over 450,000 tons of agricultural by-products such as straw annually.

To further promote bio-environmental feed and conserve grain resources, the Company has spearheaded the formulation of four industry standards, including the Technical Specifications for Fermented Feed, which have been implemented nationwide. Related technological achievements have been included in the National Green Low-Carbon Technology Catalog. Additionally, we have increased investment in the R&D and production of bio-environmental feed. In 2024, 6.3 million tons of bio-environmental feed were produced, with specific targets set for 6.6 million tons in 2025 and 7 million tons in 2026. We innovatively developed and launched the Fulixinmei fermented liquid feed product under the Green Imprint series, which can regulate intestinal flora, improve nutrient absorption efficiency, and achieve a 3.7% increase in feed conversion efficiency, reducing feed waste by 12 kg per fattening pig throughout its lifecycle.

By the end of 2024, the Company had promoted a cumulative total of 18 million tons of bio-environmental feed, directly reducing the use of traditional protein raw materials such as soybean meal by 1.21 million tons, equivalent to conserving 2 million mu of arable land resources.

# In 2024, 667.300 tons of grain were saved, equivalent to the grain

ed, equivalent to the grain yield from 1.33 million mu of cultivated land.

rough feed optimization (including 320,000 tons of soybean meal and

gh farming efficiency improvements (including 227,300 tons of feed saved the feed-to-meat ratio, and shortening the number of days required to

ural University on the project "Key Technological Innovations in the Grain Feed Resources," promoting quality and efficiency improvement of erall feed sourcing - saving - safety effects, and effectively alleviating feed essure.

onjunction with the "Development and Product Creation of New Energy sub-project under the National Key R&D Program for the 14th Five-Year

to reduce import dependence, in line with the "Frontier Technologies and ioengineering Manufacturing," a sub-project under the National Key R&D



Long queue of trucks outside New Hope Feed Factory in Ho Chi Minh City, Vietnam

### **Promoting Local Development in Operational Areas**

As a pioneering private enterprise that ventured overseas in 1999, the Company has been deeply committed to implementing the national Belt and Road Initiative (BRI) during its 25 years of international expansion. We have consistently advanced our industrial presence in 14 countries across Southeast Asia and Africa. Through strategic measures such as creating jobs, promoting localization, and supporting local residents, we have injected significant momentum into the sustainable economic and social development of our host communities. In 2024, during the 10th anniversary celebration of the BRI, our Bangladesh Region was honored as one of the 16 key Chinese enterprises developing in Bangladesh by the Chinese Embassy in Bangladesh, exemplifying the tangible benefits of win-win cooperation between China and its international partners through concrete actions.

### **Considering Community Impact**

Before establishing overseas regions, the Company makes preparations in strict accordance with international standards and the laws and regulations of the destination country. It conducts comprehensive analyses of target markets, evaluating political stability, economic growth potential, and competitive landscapes within the industry. The assessments encompass overseas business prospects, policy support, and in-depth market research. Prior to construction and production initiation, we meticulously consider site selection to ensure full compliance of all overseas operations. During production, we implement environmentally friendly technologies, optimize processes, and carefully schedule construction activities. By establishing ecological buffer zones or green areas and enforcing stringent biosafety measures, we strive to minimize adverse community impacts, such as noise, dust, and environmental pollution. When necessary, we engage with local residents through site visits and surveys to address potential social impacts, thereby fostering community trust and mitigating operational risks.

### Fostering Community Development

The Company implements a localization strategy for overseas development, forging strong partnerships with local entities. It prioritizes the localization of talent and supply chain procurement, effectively contributing to regional economic prosperity and harmonious social development. This approach enhances our corporate social responsibility and strengthens our regional influence.

### Supporting Local Economies

The Company actively participates in modernizing local agriculture through close collaboration with host country farmers, cooperatives, and

government agencies. Our efforts include conducting technical training sessions and sharing best practices to promote localized farming techniques. We emphasize local raw material procurement by developing localized purchasing norms and standardized procurement processes, thereby stimulating local supply chain development.

Since 2016, our Bac Giang branch in the Vietnam Region has collaborated with Bac Giang Agriculture and Forestry University to establish the New Hope Bac Giang Animal Health Center. This facility serves livestock and poultry farmers across the region. By the end of 2024, it had invested 2.35 billion Vietnamese dong (equivalent to RMB 705,000) into relevant projects, constantly elevating local animal health standards.

The Philippines Region has implemented a localization operation and development policy, focusing on extensively recruiting local talent and fostering close partnerships with local communities, logistics providers, and suppliers. This strategy indirectly stimulates related industry growth and enhances community economic vitality. The Myanmar Region has refined its procurement strategy to increase the use of local value-added raw materials, including fish meal, fish fillet powder, shrimp shell powder, and soybeans. The Indonesia Region actively promotes collaborations with local suppliers, boosting the localization rate of raw material procurement and effectively reducing transportation time and costs.



Local employee hiring ratio in the Overseas Sector: 94%Local procurement ratio in the Overseas Sector: 25%

### 25 Years in Vietnam: Cultivating Chinese Brand Influence through Localization

As a pioneer in China's agricultural and animal husbandry industry's global expansion, New Hope Liuhe has steadily grown its presence in Vietnam since 1999. Beginning with its first company in Ho Chi Minh City, followed by Hanoi in 2000, and Binh Phuoc breeding company in 2018, the Company has established a significant footprint. By the end of 2024, New Hope Liuhe operated 9 feed companies and 3 breeding companies in Vietnam, with its total feed production ranking among the top five in the Vietnamese market, solidifying its position as a major Chinese player in Vietnam's feed industry. Leveraging its superior feed products, the Company has deeply penetrated the Vietnamese market, capitalizing on local raw materials, climate advantages, and competitive pricing to expand into the pig farming industry chain. New Hope Liuhe has become the first Chinese enterprise to venture into pig farming in Vietnam, annually supporting the prosperity of over 1,200 distributors and 300,000 farming households.

The Company actively integrates into the local culture, providing thousands of job opportunities with a local employment rate exceeding 95%. Through deep integration of language, lifestyle, and work practices, it has established unique advantages in Vietnam. These include high-quality support services, synergies in upstream and downstream sectors such as seedling and animal health, and robust distribution and direct sales networks. Consequently, the Company has cultivated a positive reputation and substantial influence in the Vietnamese market. In recognition of its success, the Company's Vietnam expansion was featured in the Ministry of Agriculture and Rural Affairs' Report on China's Agricultural Foreign Investment Cooperation in 2024.



Vietnamese media coverage of New Hope Liuhe's environmentally friendly farming model

### **Cultivating Local Talent**

The Company employs a comprehensive talent development framework to enhance skills and provide professional training for local talent, consistently fostering cross-cultural communication. Our focus on employee motivation and welfare contributes to the synergistic development of local employee capabilities and corporate growth. We have implemented scholarship and internship programs in countries such as Myanmar and Egypt. The Egypt Region has established partnerships with prestigious local institutions, including Cairo University, Alexandria University, and Beni-Suef University, to expand talent acquisition channels and promote long-term sustainable development.





holds a recruitment fair.

The Egypt Region initiates strategic cooperation with Cairo University and The Pig Sector's overseas squad participates in charitable donations in

Vietnam North Region: The region emphasizes the development of a local leadership pipeline. Chinese managers are required to master the local language and pass relevant examinations. Through mentorship by Chinese managers, outstanding local employees are nurtured and promoted, achieving mutual integration. In 2024, local managers constituted 49% of departmental supervisors and above in regional companies, while local employees filled 80% of key (reserve) positions.

Philippines Region: The region has implemented a localized talent development plan, offering career advancement opportunities to Filipino employees through pre-employment training, skill enhancement courses, and management development programs. In 2024, over 50 training activities were conducted, involving more than 800 attendances, which improved employee skill proficiency and established a solid foundation for career growth.

Indonesia Region: The region offers technical training sessions, delivering systematic courses on critical aspects such as feed utilization, farm management, and disease prevention and control. Technical teams are assigned to provide on-site, one-on-one guidance, helping farmers optimize breeding practices and improve production efficiency. In 2024, over 50 training activities were organized, with 2,000 farmer attendances.

Bangladesh Region: In partnership with the Asian Development Bank, the region provides free technical and financial literacy training for female farmers. From 2023 to 2024, a total of 4,507 farmers were trained , effectively empowering local women.

### **Caring for Community Residents**

New Hope Liuhe actively participates in social welfare initiatives in its overseas host countries, engaging deeply with communities and practicing philanthropy.

The Philippines Region has developed a Community Engagement and Sustainable Development Plan, supporting local community education, health, safety, and post-disaster reconstruction through charitable activities, resource donations, and employee volunteer services. A robust system has been established for regular follow-ups and long-term support. For example, the Bulacan company has organized a Back-to-School Donation Campaign, providing schoolbags and stationery to local village primary schools. The Luzon and Davao companies have made multiple food donations to support underprivileged children. The Davao company has contributed medical supplies to regional health institutions, organized employee blood drives, and donated resources to the fire department to enhance community safety.

The Bangladesh Region collaborates with local governments to promote balanced rural nutrition and health, with a focus on youth development.

The Indonesia Region organizes volunteer teams to participate in various projects including community service, environmental protection initiatives, and post-disaster reconstruction. In 2024, the Region's employee volunteers contributed a total of 1,000 hours to public service.

### **Engaging in Philanthropy**

The Company steadfastly adheres to the principle of "rooted in society and giving back to society," actively engaging in philanthropic endeavors. Through signature charitable initiatives such as the Hope and Wish Plan and the Warm Winter Campaign, we consistently demonstrate our commitment to social responsibility. In response to natural disasters caused by extreme weather, we ensure that the basic needs of affected populations are met, exemplifying our dedication to corporate citizenship through tangible actions.

### **Brand-driven Philanthropic Initiatives**

The Company is committed to supporting vulnerable groups in society and aiding the development of remote rural areas and children's growth. We have established two flagship philanthropic programs: the Hope and Wish Plan and the Warm Winter Campaign, which exemplify our dedication to creating a positive impact through small acts of kindness.

### Hope and Wish Plan

Since 2016, the Company has orchestrated 9 consecutive seasons of the Hope and Wish Plan, mobilizing employees and compassionate individuals to donate gifts to children in impoverished mountainous regions. By the end of 2024, we had fulfilled the Children's Day wishes of 22,000 children across the country.

In May 2024, the Company launched the 9th season of the Hope and Wish Plan. Our volunteers traveled to various locations, including Xide County in the Liangshan Yi Autonomous Prefecture of Sichuan Province, Longzhou County in the Guangxi Zhuang Autonomous Region, and Luochuan County in Shaanxi Province. They delivered festive gifts to 906 primary school students, helping them realize their Children's Day aspirations.



Warm Winter Campaign

Initiated in 2014, the Company's Warm Winter Campaign has been conducted for 11 consecutive years, reaching numerous remote, impoverished, and former revolutionary areas. We have provided winter supplies to local disadvantaged groups and contributed to the construction of schools and nursing homes. Over the past 11 years, we have witnessed the rapid development of China's mountainous regions. Our efforts have evolved from initially donating winter clothing to providing production materials, living supplies, and technical support, as well as promoting modern lifestyle practices. This progression represents a shift from addressing basic needs to enhancing the overall quality of life.

In 2024, for the 11th season of the Warm Winter Campaign, the Company collaborated with the Sichuan Branch of the Agricultural Development Bank of China to donate 634 washing machines, valued at RMB 320,000, to Luogan Village in Jueluo Township, Meigu County, Liangshan Prefecture, Sichuan Province. This initiative aimed to improve living conditions and hygiene for rural households.

### **Emergency Relief and Disaster Recovery**

Guided by humanitarian values, the Company actively engages in the rescue, relief, and reconstruction efforts following natural disasters both domestically and internationally. We strive to bring comfort and hope to affected populations, demonstrating our social responsibility and commitment as a multinational enterprise



The 9th season of the Hope and Wish Plan reached Xide County in The 11th season of the Warm Winter Campaign reached Luogan Village in Meigu

Case

**Overseas Subsidiaries Support Local Employees and Customers in Disaster Recovery** 



The Bangladesh Region donates supplies to affected residents.

In 2024, in response to floods and water-related disasters caused by Typhoon Yagi across multiple Southeast Asian countries, the Company prioritized employee safety and community rebuilding as critical missions. We promptly activated emergency response protocols and deployed employee volunteer teams to conduct on-site rescue operations.

### Vietnam Region

The Region implemented proactive disaster prevention measures, including arranging employee safety leaves and stockpiling flood control supplies. Chinese managers were dispatched to severely affected areas such as Haiphong, Quang Ninh, and Nam Dinh to support affected customers. RMB 1 million was allocated in special funds to assist end-users in resuming production and self-recovery efforts. The Ho Chi Minh City company donated 10 million Vietnamese dong through the Sichuan-Chongqing Enterprises Confederation.

### Laos Region

In active response to the government's flood control initiatives, the Region donated 10,000 flood prevention sandbags and provided essential supplies to local farmers.

### Myanmar Region

From June to October, the Region distributed living necessities to local employees, benefiting approximately 1,290 employees and their family members.

### Philippines Region

Following flood disasters, our Bulacan subsidiary donated essential supplies, including clothing and food, to affected employees, helping them navigate challenging times and providing robust support for rebuilding their homes.

### Chairperson Liu Chang and senior executives visit the Port of Alexandria in Egypt. ightarrow

# **About This Report**

The New Hope Liuhe Co., Ltd. 2024 Sustainability Report (hereinafter referred to as "this

### • Definition of Terms

For ease of expression and reading, New Hope Liuhe Co., Ltd. is referred to as "New Hope Liuhe", "the Company" or "we" in this report. Moreover, the terms "country" and "government"

### Reporting Scope

Time Range: This report covers the period from January 1, 2024, to December 31, 2024. financial statements of the Company. Reporting Period: This report is an annual report.

### • Basis of Preparation

This report has been prepared with reference to the GRI Standards issued by the Global Sustainability Standards Board (GSSB); *Self-Regulatory Guidelines No. 17 for Companies Listed on Shenzhen Stock Exchange — Sustainability Report (For Trial Implementation);* Self-Regulatory Guidelines No. 3 for Companies Listed on Shenzhen Stock Exchange — Preparation of Sustainable Development Reports; the national standard Guidance on Social Responsibility Reporting (GB/T 36001-2015); and the United Nations Sustainable Development Goals (SDGs).



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• Reporting Principles

This report adheres to the principles of materiality, balance, quantification, and consistency.

The Principle of Materiality: The Company conducts a materiality assessment to identify and evaluate significant ESG issues relevant to the Company's operations and both its internal and external stakeholders, and highlights these issues in this report. For more details on the materiality assessment process and its results, please refer to the "Sustainable Development Management" section of this report.

The Principle of Balance: This report reflects objective facts, providing an unbiased disclosure of both positive and negative information related to the Company. It presents a balanced account of Ahwit's endeavors across different ESG dimensions. During the reporting period, no significant negative incidents were found that should have been disclosed but were not.

The Principle of Quantification: Where applicable, the Company discloses quantitative ESG performance indicators and sets performance targets. The measurement criteria, methodologies, assumptions, calculation tools, and conversion factors used for key performance metrics are specified where relevant.

The Principle of Consistency: This report maintains consistency in the statistical and disclosure methods for the same indicators across different reporting periods. Should there be any modifications to these approaches, comprehensive explanations will be included in the report's notes to enable relevant parties to conduct meaningful analysis and evaluation.

### Data Description

Due to the divestiture of the poultry and food segments in 2024, the Company's business structure has undergone significant changes, making previous years' data no longer comparable. As a result, this year's sustainability report does not provide retrospective comparisons with data from previous years. Starting from this reporting year, we will establish a new data baseline to ensure the continuity and comparability of future disclosures.

### • Source of Information

All the information and data used in the report are sourced from the Company's official documents, statistical reports, and financial statements, as well as information on sustainable development practices of each unit that have been gathered and reviewed by the responsibility management department of the Company. Where discrepancies exist between the financial data in this report and those in the Company's annual report, the annual report shall prevail. Unless otherwise specified, all monetary amounts mentioned in this report are measured in RMB.

### Assurance of Accuracy

The Company assures that there are no false records, misleading statements, or significant omissions in the contents of this report, and is responsible for its truthfulness, accuracy, and completeness.

### Access to the Report

This report is published in a PDF electronic format. It is available for viewing and download on the Shenzhen Stock Exchange's designated information disclosure platform, CNINFO (www.cninfo.com.cn), or on the Company's official website at http://www. newhopeliuhe.com. If you have any questions or suggestions regarding the report, please reach us via email at 000876@newhope.cn.

## **Key Performance Table**

Economi	ic
Indicato	rs

Indicator	Unit	2024	2023	2022
Operating revenue	billion RMB	103.063	141.703	141.508
Total assets	billion RMB	117.915	129.611	136.679
Feed sales volume	million tons	25.96	28.76	28.42
Number of employees by hierarchical level	million heads	16.5249	17.68	14.6139

Indicator		Unit	2024	
Environmental management	Total investment in environmental protection (excluding depreciation)	million RMB	152.6553	
_	Diesel consumption	liters	11,761,478.46	
	Gasoline consumption	liters	1,275,137.06	
	Natural gas consumption	million cubic meters	106.9808	
Energy management	Purchased electricity	million kilowatt hours	1,527.4204	
	Outsourced steam	tons	458,390.45	
	Total energy consumption	tons of standard coal	404,713.72	
	Energy intensity	tons of standard coal per RMB 1 million of revenue	3.93	
	Direct greenhouse gas emissions (Scope 1)	tons of CO <sub>2</sub> equivalent	264,591.66	
Greenhouse	Indirect greenhouse gas emissions (Scope 2)	tons of CO <sub>2</sub> equivalent	930,406.76	
gas emissions	Total greenhouse gas emissions	tons of CO <sub>2</sub> equivalent	1,194,998.42	
	Greenhouse gas emission intensity	tons of $CO_2$ equivalent per RMB 1 million of revenue	11.59	
Water resources management	Total water withdrawal	million tons	25.3924	
	Water intensity in pig farming	cubic meters/head	2.5	
	Water intensity for slaughtering meat	cubic meters/head	0.35	
	Total Discharge Volume	million tons	19.0581	
	Total wastewater treatment volume	million tons	18.1396	
Waste management	Chemical oxygen demand	tons	9,811.33	
	Total ammonia nitrogen emissions	tons	496.77	
	Non-hazardous waste	tons	316,024.45	
	Hazardous waste	tons	5.42	

	Indicator		Unit	2024
	Total investment i	n production safety	million RMB	92.9281
Production safety	Total occupationa	l injury rate	%	0.21
	Total attendance	of safety training	attendances	7,162,135
Customer service	Customer compla	int handling rate	%	100
	Total R&D investn	nent	million RMB	270.2823
R&D innovation	Number of R&D s	taff	persons	717
	Total number of suppliers		/	4,696
Supply chain management	Number of domestic suppliers (including Hong Kong, Macao, and Taiwan)		/	3,872
	Number of suppliers assessed		1	4,696
	Total number of employees		persons	41,327
		Male employees	persons	31,852
Employees	Gender structure	Female employees	persons	9,475
		Employees aged 30 and under	persons	12,291
	Age structure	Employees aged 31-50	persons	23,749
		Employees over 50 years old	persons	5,287

### Environmental Indicators

Social Indicators

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Social

Indicators

Indicator			Unit	2024
		Employees with a high school education or below	persons	13,993
	Academic	Employees with an associate degree	persons	11,064
	structure	Employees with a bachelor's degree	persons	13,710
		Employees with a graduate degree, MBA, or above	persons	2,560
Employees	Regional	Chinese employees (including employees from Hong Kong, Macao and Taiwan)	persons	33,912
	structure	Overseas employees	persons	7,415
	Total inve	stment in employee training	million RMB	6.7563
	Number o	f employees participated in training	attendances	37,600
	Annual training hours per employee		hours	1,184,002.38

## Indicator Index Table

Instructions for use: New Hope Liuhe has reported the information referenced in this content index for the period from January 1, 2024 to December 31, 2024 in accordance with the *Self-Regulatory Guidelines No. 17 for Companies Listed on Shenzhen Stock Exchange—Sustainability Report (For Trial Implementation)* and with reference to the GRI Standards.

Reporting Framework	Sustainability Reporting Guidelines	GRI Standards 2021 (Referenced Framework)		
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Sustainable Development Management	Article 12, Article 13, Article 14, Article 15, Article 17, Article 18, Article 51	2-9, 2-12, 2-13, 2-14, 2-17, 2-22, 2-24, 2-26		
Materiality Assessment of ESG Issues	Article 5, Article 9, Article 51, Article 52, Article 53	2-6, 2-16, 2-29, 3-1, 3-2, 3-3		
Responsibility Focus	Article 38, Article 39	201-1, 203-1, 203-2		
Building a Strong Foundat	ion for Growth through Effective Governance			
Party Building Efforts				
Corporate Governance	Article 52	2-9, 2-10,, 2-11, 2-15, 2-16, 2-26, 2-27, 405-1		
Risk and Compliance Management	Article 52	2-25, 2-27, 207-1, 207-2, 207-3		
Business Ethics	Article 55, Article 56	2-15, 2-25, 2-27, 205-1, 205-2, 205-3, 206-1		
Supply Chain Management	Article 44, Article 45, Article 46	2-6, 2-27, 203-2, 308-1, 308-2, 414-1, 414-2		
Advancing Inclusive Nutrit	Advancing Inclusive Nutrition and Health through Premium Products			

Nutrition and Health R&D	Article 41, Article 42, Article 43	2-27, 201-1, 203-2, 404-2		
Stringent Quality and Safety Control	Article 44, Article 47	2-27, 416-1, 416-2		
Improving Service Quality	Article 44, Article 47	2-25, 2-26, 2-27, 417-1, 417-2, 418-1		
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Nurturing Natural Ecosyst	tems through Green Industry Practices			
Sustainable Agriculture	Article 31, Article 37	101-8, 301-2		
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Addressing Climate Change	Article 21, Article 22, Article 23, Article 24, Article 25, Article 26, Article 27, Article 28, Article 35	201-2, 302-1, 302-2, 302-3, 302-4, 302-5, 305-1, 305-2, 305-4, 305-5		
Land Use and Biodiversity Protection	Article 32	101-1, 101-2, 101-4, 101-7		
Co-creating Value to Achi	ieve Common Prosperity			
Empowering Employees	Article 49, Article 50	2-7, 2-8, 2-23, 2-25, 2-26, 2-27, 2-30, 201- 3, 202-1, 401-1, 401-2, 401-3, 403-1, 403-2, 403-3, 403-4, 403-5, 403-6, 403-7, 403-8, 403-9, 403-10, 404-1, 404-2, 404-3, 405-1, 406-1, 407-1, 408-1, 409-1		
Empowering Farmers	Article 38, Article 39	201-1, 203-2		
Community Engagement	Article 38, Article 40	201-1, 203-1, 203-2, 204-1, 413-1, 413-2		
Appendix				
About This Report		2-2, 2-3, 2-4, 2-29		
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# **Feedback Form**

### Dear Reader,

Greetings!

Thank you for reading the *New Hope Liuhe Co., Ltd. 2024 Sustainability Report*. We highly value your opinions on this report. To help us further enhance our sustainability management and practices, we kindly invite you to share your feedback and suggestions. Your input will enable us to continuously improve the quality and effectiveness of our reporting. You are welcome to complete the following form and return it to us via email or post.

- 1. How would you rate the report overall?
- $\bigcirc$  Excellent  $\bigcirc$  Good  $\bigcirc$  Average  $\bigcirc$  Below Average  $\bigcirc$  Poor
- 2. How would you evaluate the quality of the sustainability information disclosed in this report?
- $\bigcirc$  Excellent  $\bigcirc$  Good  $\bigcirc$  Average  $\bigcirc$  Below Average  $\bigcirc$  Poor
- 3. How would you rate the structure and organization of this report?
- $\bigcirc$  Excellent  $\bigcirc$  Good  $\bigcirc$  Average  $\bigcirc$  Below Average  $\bigcirc$  Poor
- 4. What is your opinion of the layout and visual design of this report?
- $\bigcirc$  Excellent  $\bigcirc$  Good  $\bigcirc$  Average  $\bigcirc$  Below Average  $\bigcirc$  Poor
- 5. How do you rate the readability of the report?
- $\bigcirc$  Excellent  $\bigcirc$  Good  $\bigcirc$  Average  $\bigcirc$  Below Average  $\bigcirc$  Poor
- 6. Does the content disclosed in this report meet your expectations?
- $\bigcirc$  Yes  $\bigcirc$  No  $\bigcirc$  Unsure
- 7. Does this report provide a comprehensive reflection of New Hope Liuhe's social responsibilities?
  - $\bigcirc$  Fully Reflected  $\bigcirc$  Partially Reflected  $\bigcirc$  Not Reflected
- 8. Do you have any suggestions or comments regarding New Hope Liuhe's sustainability management practices or this report? We welcome your valuable input.

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