



大北农集团
DA BEI NONG GROUP



2023

Sustainability Report (ESG Report)

Beijing Dabeinong Technology Group Co., Ltd.

(Stock Code: 002385)



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Report Overview

| Reporting Period

As an annually issued ESG report covering the time period from January 1, 2023 to December 31, 2023, this report primarily focuses on Beijing Dabeinong Technology Group Co., Ltd., and covers its subsidiaries within the scope of its consolidated financial statements (See the Company's Annual Report for details), some contents may be beyond the above time period.

| References

For better readability, Beijing Dabeinong Technology Group Co., Ltd. is referred to as "DBN", "we" or "the Company".

| Compilation Conformance

Guidelines of SZSE for Self-Discipline Regulation of Listed Companies No.1 – Standardized Operation of Main Board Listed Companies (amended in December 2023)

ISO 26000: Guidance on Social Responsibility (2010) issued by the International Organization for Standardization

GRI Sustainability Reporting Standards (GRI Standards) issued by the Global Sustainability Standards Board (GSSB)

Guidelines on Corporate Social Responsibility Reporting for Chinese Enterprises issued by the Chinese Academy of Social Science (CASS-ESG 5.0)

Guidance for Social Responsibility of Listed Companies issued by the Shenzhen Stock Exchange

| Reporting Language

This report is published in both Chinese and English. In case of any ambiguity, inconsistency or conflict between the two versions, the Chinese version shall prevail.

| Data Sources

All data contained herein are from the Company's official documents and public disclosure documents. If there is any inconsistency between data in the report and those in the Financial Report, those in the Financial Report shall prevail. Unless otherwise specified, the currency unit is RMB.

| Access to the Report

The report is available in Chinese and English in print and electronic formats. Welcome to visit the official website to download the report at the Company's official website (www.dbn.com) or the information disclosure website designed by SZSE (www.cninfo.com.cn).

Message from the Chairman

For strengthening agriculture and servicing the country, we forge ahead with enterprise and fortitude



The year 2023 marks the first year of fully implementing the guiding principles of the 20th National Congress of the CPC and taking swifter actions to build up China's strength in agriculture. It was also the 30th anniversary of the founding of DBN Group. Over the last three decades, DBN Group has adhered to the mission of "strengthening agriculture and servicing the country" and the value of "contributing to society and empowering the country" and explored a new green path for circular economy.

In his report to the 20th National Congress of the CPC, Xi Jinping, General Secretary of the CPC Central Committee, emphasized the importance of pursuing green development and promoting harmony between humanity and nature. Respecting, adapting to, and protecting nature is essential for building China into a modern socialist country in all respects. We must uphold and act on the principle that lucid waters and lush mountains are invaluable assets, and we must remember to maintain harmony between humanity and nature when planning our development. Heaven and earth do not speak, yet the seasons change and all things grow. As China embraces a stage of rapid development, the guiding principles of the 20th CPC National Congress require us to practice ESG concepts and accelerate low-carbon

transformation, which align with our needs to build a world-class agtech company. As an agricultural leader, DBN Group set up the Strategy and ESG Committee in 2023, reinforcing the strategic position of sustainable development in the Company's operation. We also carried out carbon verification on all fronts and experimented with effective ways to save energy and reduce carbon to protect our environment.

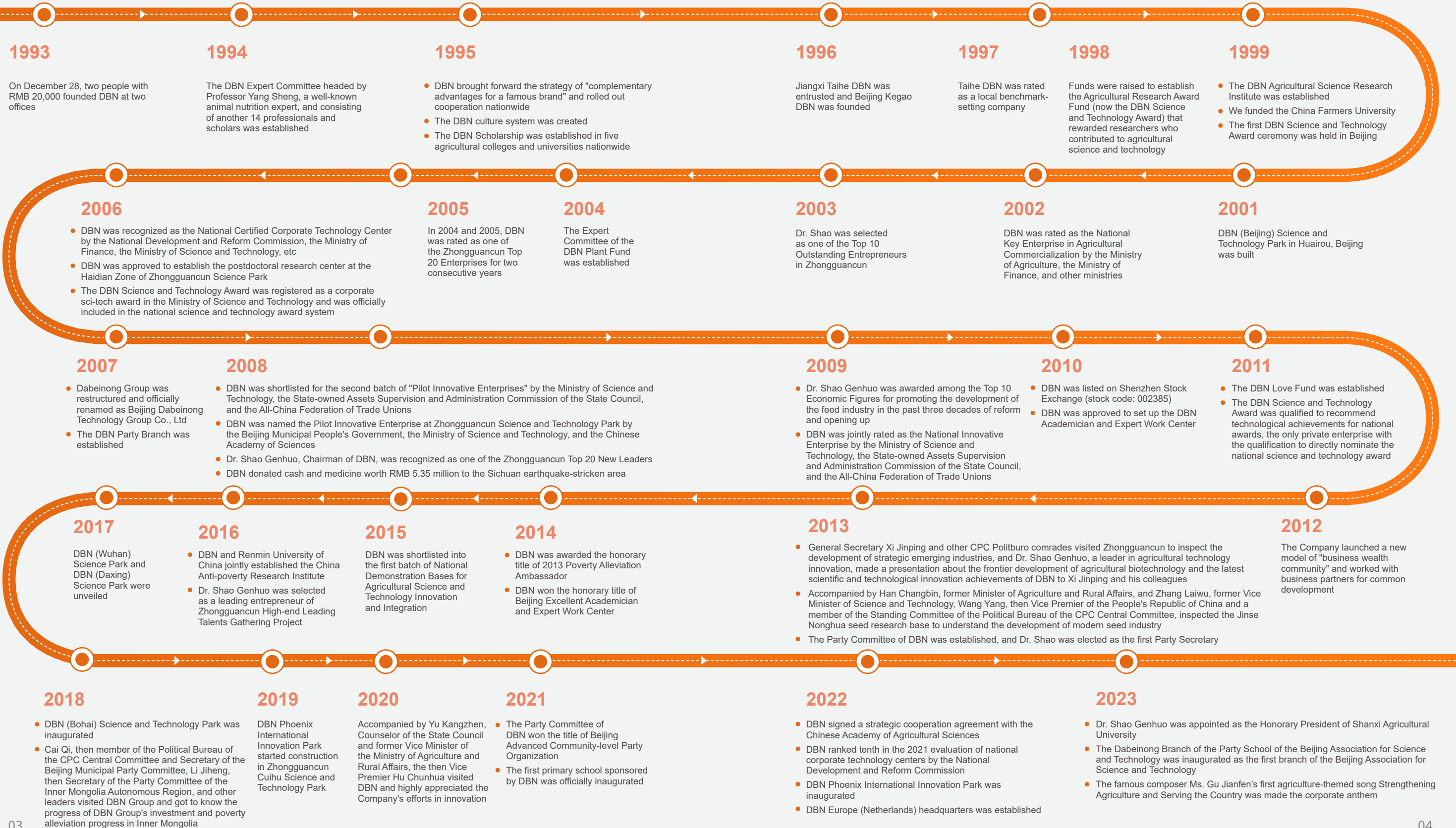
A just cause finds great support, and a journey with many companions gets far. In the journey of fulfilling our corporate mission and social responsibility, we join hands with partners for a win-win cooperation and development pattern across the supply chain. In response to the call of the state, we are devoted to the rural vitalization strategy by putting our business into that context. We continue to invest in talent training and charity and leverage our strengths as an agricultural leader to support comprehensive vitalization in five aspects: industries, talents, culture, ecology, and organizations. Targeting key assistance areas, we focus on key elements such as industrial assistance, talent empowerment, and innovation for the honor of a "national advanced unit for rural vitalization".

Faced with the requirements of building a strong country and rejuvenating the nation, DBN Group grasps government policies, acts as an enterprise, and connects through capital in an innovative development model to advance the industry. Going forward, DBN Group will uphold the mission of strengthening agriculture and servicing the country and shoulder our social responsibility. Blending together corporate social responsibility, sustainability model, and corporate management, we will work with all stakeholders to promote sustainable and healthy agricultural development and contribute wisdom and strength to rural vitalization and the strategy of building up China's strength in agriculture.

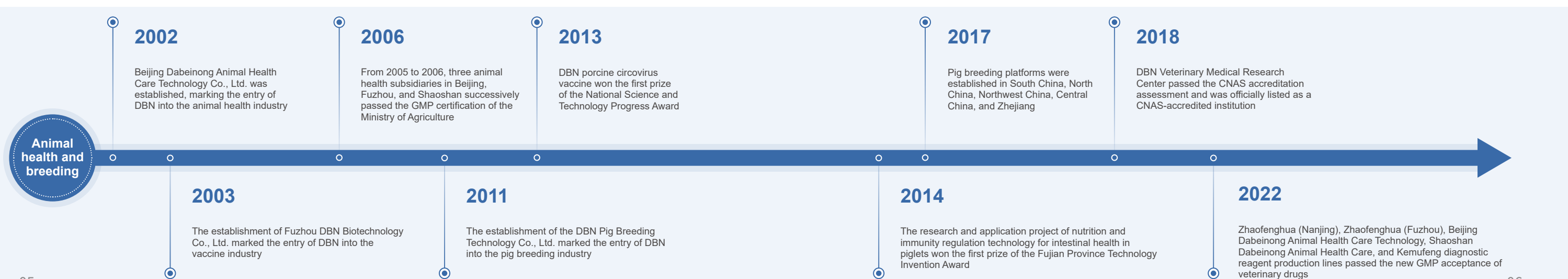
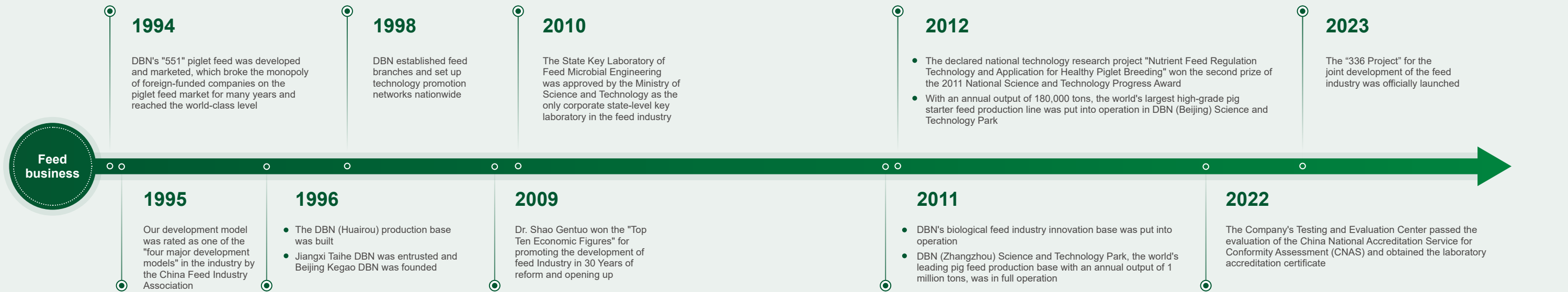
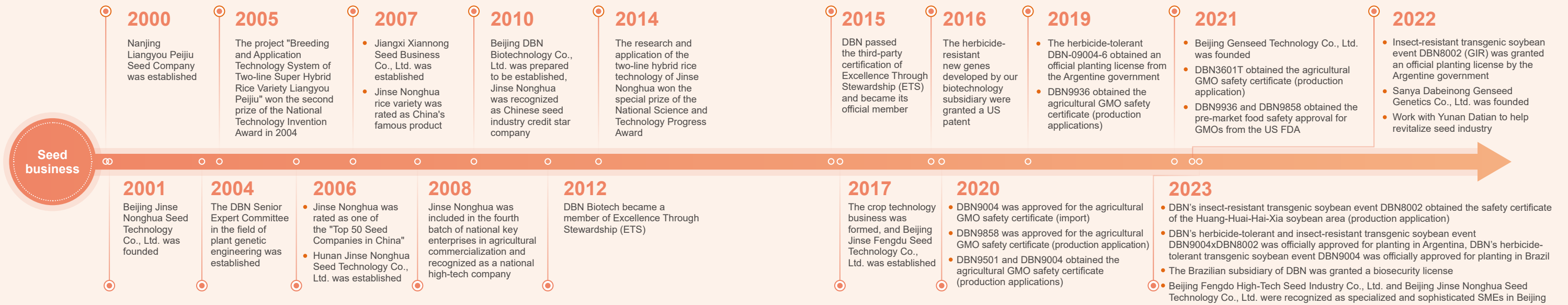
Dr. Shao Genhuo

Chairman of Beijing Dabeinong Technology Group Co., Ltd.

The Development of DBN



History of different business segments



About DBN

Company Profile

Beijing Dabeinong Technology Group Co., Ltd. (DBN) is an agtech company founded by young agricultural specialists represented by Dr. Shao Genhuo. Since its establishment in 1993, DBN has been devoted to the corporate philosophy of “strengthening agriculture and serving the country” with efforts to promote modern agriculture in China through innovation. As of the end of the reporting period, the Company owns **2** national laboratories, **4** key corporate laboratories certified by the Ministry of Agriculture and Rural Affairs (MARA), **13** other provincial and ministerial level laboratories, **30** national high-tech subsidiaries, **6** national leading subsidiaries in agricultural commercialization, the first corporate academician and expert center in Beijing and a postdoctoral research center at the Haidian Zone of Zhongguancun Science Park. The Company has more than **300** production bases, more than **300** subsidiaries and branches and over **10,000** community-level technology promotion service stations nationwide.



Mission

Strengthening agriculture and serving the country



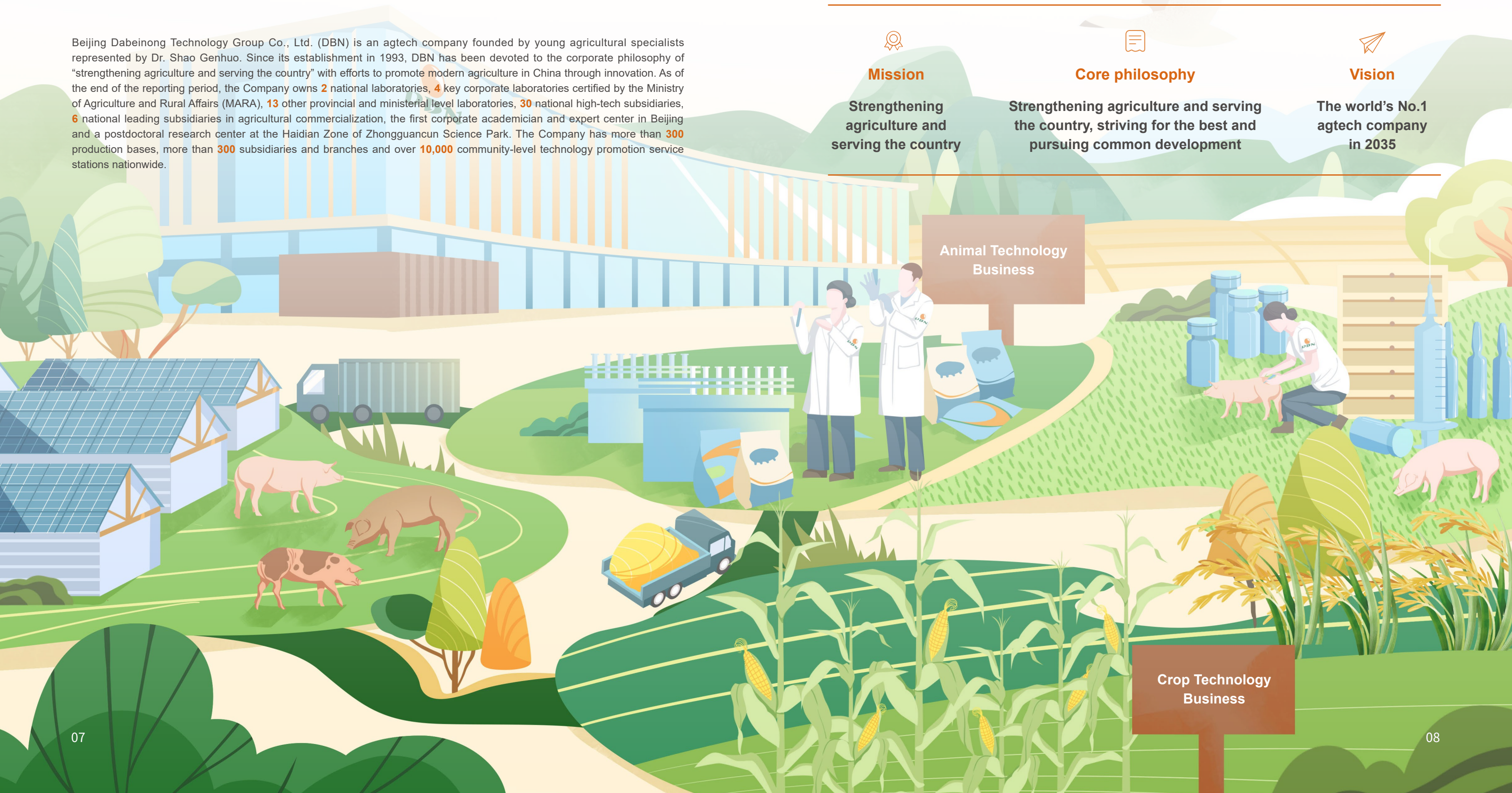
Core philosophy

Strengthening agriculture and serving the country, striving for the best and pursuing common development



Vision

The world's No.1 agtech company in 2035



Party Building

The year 2023 kicked off the full implementation of the guiding principles of the 20th National Congress of the CPC and swifter actions to build up China's strength in agriculture. Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, DBN Group put into practice the guiding principles of the 20th National Congress of the CPC, China's No. 1 central document, and General Secretary of the CPC Central Committee Xi Jinping's important remarks on issues related to agriculture, rural areas, and farmers, while enhancing the Party's overall leadership over the group, contribute to the construction of a strong agriculture and rural revitalization.

DBN Party Committee was established in April 2007 with Dr. Shao Genhuo, the chairman of DBN, serving as the Secretary of the Party Committee. At present, DBN Party Committee has 1 sub Party Committee, 7 Party general branches and 125 Party branches, with more than 2,000 Party members, accounting for about 10% of total employees.

Party Building Characteristics



The methodology of "three-route cultivation of three hundred personnel" is the recommended methodology among Party branches in Beijing

"Three-route development of three hundred personnel" aims to encourage 100 company key personnel to join the CPC, support 100 CPC members to become company key personnel, and empower 100 technical key personnel to become experts in their field. The campaign strengthens the CPC member talent team and enables Party members to play a leading role. So far, a total of 43 company key personnel have joined the CPC, 74 CPC members have been promoted as company key personnel, and 37 technical key personnel have gained the title of experts. More than 70% of middle and senior managers are CPC members, with the Party Committee and the board sharing the same group of members. The Company has shaped a pattern of "two structures but one core team" for Party building and corporate management.



We foster an atmosphere of striving for excellence

Through the selection of top10 Party members, pioneering female entrepreneurs, worker models, and young entrepreneur models, we encourage employees to do their best in production and business operation, stimulate the vitality of party members, and develop the dynamics where everyone learns from the best to give play to the leading role of Party members.



We step up efforts to develop corporate culture

As required in the building of corporate culture, the Party Committee carries out activities such as raising the national flag once a week, singing the national anthem at official meetings, and organizing Party members and cadres to receive training at revolutionary bases to integrate the CPC culture into the culture of DBN Group. At the same time, we improve the evaluation system, implement credit-based management of Party members, and establish multiple training platforms such as the group's intranet, Party building official account, and Party member chat groups.

Party Building Activities



The 2023 DBN Group Party member conference was held

On July 1, 2023, on the occasion of the 102nd anniversary of the founding of the CPC, the Party Committee of DBN Group held a group-wide Party member conference. More than 2,000 Party members were engaged either online or in person. The conference was themed "implementing the guiding principles of the 20th National Congress of the CPC, strengthening Party building, and contributing to building up China's strength in agriculture", ushering in a new chapter in the Party building of DBN Group.



The Party Committee of DBN Group is declared the champion in the finals of the "Red Collar Cup" two new-type Party building competition in the Haidian District

Corporate Culture

The 10th edition of DBN Culture is issued

On March 28, 2023, to fully deliver the guiding principles of the 20th National Congress of the CPC, encourage all DBN employees to stay inspired and tenacious, and celebrate the 30th anniversary of the DBN Group, DBN Group held the ceremony of "countdown to the 30th anniversary with remarkable achievements and the launch of the 2023 edition of the corporate culture manual". Witnessed by all DBN stakeholders, the 10th edition of *DBN Culture* was released.

The new corporate anthem *Strengthening Agriculture and Serving the Country* is released

On October 10, 2023, the delivery ceremony of the first agriculture-themed song *Strengthening Agriculture and Serving the Country* created by the famous composer Mr. Gu Jianfen for DBN Group was held in DBN Phoenix International Innovation Park. The corporate anthem, a great encouragement and blessing for the 30th anniversary of DBN Group, motivates DBN employees to forge ahead and inspires more people in the agricultural sector in the new era to serve the nation and realize their dreams.

Figures 2023



ESG Highlight

Enhancing Industrial Competitiveness

- Revenue of crop technology business reaches RMB **1.405** billion, year-on-year increases **48.84%**, seed sales of crop technology business reached **61,657,300** kilogram and **50** million acres of farmland are covered
- Revenue of feed technology business reaches RMB **24.02** billion, year-on-year increase **7.76%**, nearly **100** production bases have been established for the feed technology business nationwide, and more than **10** million tons of production capacity in the feed technology business
- Revenue of pig farming business reaches RMB **5.702** billion, year-on-year increases **4.31%**, **6.0487** million pigs put to market by the pig farming business's holding and share holding and participating enterprises

Fostering the Driving Force of Scientific and Technological Innovation

- 2** state-level laboratories
- 4** key corporate laboratories certified by the Ministry of Agriculture and Rural Affairs
- 13** other provincial and ministerial R&D platforms
- 30** national high-tech subsidiaries
- 6** national key leading enterprises in agricultural commercialization
- 4** subsidiaries under the national seed industry matrix
- The Company had **2,991** R&D personnel, R&D personnel accounted for **16.2%**
- R&D investment reaches RMB **834** million and accounted for **2.50%** to operating costs
- 21** intellectual property protection activities held, covering about **2,100** participants

Fostering Industrial Consortia

- Nearly **660,000** customers received seed business services
- The company cooperated with and audited **1,508** suppliers in the feed technology industry
- There are more than **2,000** cooperative ecological farms (farmers) in the pig breeding industry
- We take the lead in the establishment of the "Protein Feed Biomanufacturing Innovation Consortium", which engages **110** member enterprises
- The crop science and technology industry held more than **8,750** visits
- A total of about **550,000** major growers and partners were invited
- The company has signed a strategic cooperation agreement with a total of **30** institutions

Setting up an Example in Environmental Protection

- RMB **53.453** million for environmental protection investment
- 1,831,970.99** tons of CO₂e Scope 1 GHC emissions
- 271,982.73** tons of CO₂e Scope 2 GHC emissions
- 2,103,953.72** tons of CO₂e total GHG emissions
- 69,755.48** tce total energy consumption
- 51,750** tons manure residue and pollutants emission
- 311** tons medical waste emissions
- 3,450,000** tons total waste water emissions
- 40,793** tons COD reduction
- 2,718** tons reduction of ammonia nitrogen

Building a Happy Family

- 18,465** employees in total
- 4,567** female employees
- 100%** labor contract signing rate
- 100%** social insurance coverage rate
- 9.32%** employee promotion rate
- RMB **19,005,000** invested in training in 2023
- More than **270,000** training hours in total
- 147,000** trainees covered
- 12** health and safety training
- 20** full-time safety personnel
- RMB **160,000** invested in safety facility improvement
- 459** female employees entitled to maternity leave
- 203** employees have paternity leave
- 140** children of employees won the DBN Scholarship for College Entrance Examination and Unified National Graduate Entrance Examination and RMB **406,000** scholarship granted
- DBN Love Fund funded employees with RMB **2.56** million
- DBN Scholarship awarded **619** students RMB **1.138** million
- DBN Fellowship awarded **201** teachers RMB **250,000**

Continuous Optimization of Corporate Governance

- 9 General Meetings of Shareholders held
- 38 proposals adopted at the shareholders' meeting
- 38 separately vote-counting proposals by minority shareholders
- 9 board members
- 3 independent directors
- 2 female directors
- 15 board meetings held
- 76 proposals adopted
- 3 Supervisory Committee members
- 2 employee supervisors
- 8 Supervisory Committee meetings held
- 24 proposals adopted
- 10 investor exchange activities organized
- 443 total investors participated
- More than 300 calls from investors answered
- 81 investors answered 133 questions through the SZSE Easy Interaction platform
- 12 training sessions on risk management and control organized in total

ESG Management

DBN has explored a new and green sustainable development path over the past 30 years, which resulted in the alignment of ecological, economic, and social benefits, and created a new round of revolution in the agricultural industry. We make the full integration of CSR fulfillment and business operations into corporate development strategy with proactive actions, contributing to China's strength in agriculture at a faster pace.

ESG management structure

In 2023, DBN established the Strategy and ESG Committee under the Board of Directors, with the chairman serving as the managing director to coordinate ESG-related matters. The committee aims to improve our environmental, social, and governance (ESG) performance and enhance core competitiveness and sustainability capabilities.

DBN's sustainability structure



ESG management effectiveness

In 2023, DBN further strengthened its ESG management by formulating and implementing normative systems and guidance manuals, dynamically identifying and controlling ESG risks and opportunities in production and operation, and establishing an efficient coordination, communication, and decision-making mechanism. The Company conducted a series of training to enhance its sustainability management and strengthened employees' awareness of sustainable development. Employees are inspired to work and live more sustainably and group their ideas and forces to promote sustainability management in all processes.

Developing the DBN ESG Systems

To standardize the ESG work processes, we have developed the *DBN ESG Systems* and the *DBN ESG Manual*. They cover the Company's strategic goals at the economic, environmental, and social levels and detail implementation strategies, monitoring, and evaluation mechanisms to ensure our sustained progress in various fields. The implementation of sustainability systems and the manual promotes the implementation of various sustainability measures in a more orderly manner and will achieve harmonious coexistence and common prosperity of the economy, environment, and society in the future.

ESG commitments

- Environmental responsibility** → We are committed to taking active measures to reduce the impact of our business activities on the environment. We devote ourselves to improving the efficiency of resource utilization, reducing waste emissions, and promoting carbon emission reductions, to ensure the minimized impact of our business activities on the ecosystem.
- Business ethics** → We promise to conduct business operations with high professional ethics, comply with laws and regulations, and establish and improve a compliance risk management system including anti-monopoly, anti-unfair competition, and anti-commercial bribery and corruption, ensuring that partners and customers can be treated fairly and reasonably.
- Human rights and labor** → We are committed to providing a safe and healthy workplace and supporting equality and diversity. During our operation, we resolutely prohibit child labor, forced labor, human trafficking, discrimination, and harassment. We also strictly abide by the *Labor Law* to safeguard the legitimate rights and interests of employees, and provide diverse learning and development opportunities for every employee.
- Supply chain management** → We promise to promote sustainable development in supply chain management and advocate for suppliers to adhere to the same ethical, environmental, and social responsibility standards to jointly maintain the sustainability of supply chains.
- Transparent communication** → We are committed to maintaining open and transparent communication with internal and external stakeholders, and timely conveying our sustainability goals and achievements. We also accept social supervision and actively respond to social concerns to promote sustainable development together.
- Social charity** → We recognize corporate responsibilities in society and promise to actively participate in social charity activities, care for vulnerable groups, and support agricultural development, education, environmental protection and other social fields. We give back to society with practical actions to jointly create a better future.

Developing the DBN ESG Indicator System

To standardize the ESG information disclosure and daily management work of business divisions and departments of the Company, we guide them to clarify the indicator definitions and reporting methods and contents of ESG. Sustainability Department has compiled the *DBN ESG Indicator System*, with the consideration of DBN's actual businesses, by comprehensively benchmarking against guidance and organizational initiatives, including UN SDGs, the *ISO 26000: Guidance on Social Responsibility* (2010) issued by the International Organization for Standardization, the *GRI Sustainability Reporting Standards (GRI Standards)* issued by the GRI Global Sustainability Standards Board (GSSB), the *Chinese CSR Report Preparation Guide by the Chinese Academy of Social Science (CASS-ESG 5.0)*, and the *Guidelines on Self-Regulation of Listed Companies No. 1 - Standardized Operation of Mainboard Listed Companies* issued by the Shenzhen Stock Exchange.

Conducting ESG-related training

To improve the ESG management level of business divisions and departments and strengthen the employees' awareness of sustainability, the Company actively organizes and carries out various special training with the incorporation of ESG-related contents into the various training for managers, business leaders, and grassroots employees. In 2023, the Company organized 6 ESG training sessions, with total participants exceeding 300.

- ✓ Interpretation of ISSB Standards
- ✓ Overview of ESG Reports and Review of Existing Rules in A-shares
- ✓ How Listed Companies Improve ESG Ratings
- ✓ ESG International Standards and Ratings
- ✓ Greenhouse Gas Emissions and Emission Reduction Plans for China Animal Husbandry Industry
- ✓

Participating in drafting industrial guidelines on ESG information disclosure

The *Guidances for Animal Husbandry Industry ESG Information Disclosure*, led by the China Animal Agriculture Information Association, initiated by Sanya Economic Research Institute and DBN, and jointly drafted by multiple leading enterprises and research units in the animal husbandry industry, was officially released in September 2023. The guidance provides ESG information disclosure principles and contents for enterprises to lead the industry to develop in a green, healthy, and sustainable way.

ESG honors

- ✓ DBN was awarded the ESG Best Practice Case for Listed Companies by the China Association for Public Companies
- ✓ DBN obtained the China Golden Bull Top 100 Listed Companies Award from the China Securities Journal
- ✓ DBN received the ESG Competitiveness · Rural Vitalization Award in the GoldenBee CSR China Honor Roll from the China Sustainability Tribune
- ✓ DBN was awarded the Most Outstanding CSR (ESG) Listed Company Award by the Capital Week
- ✓ DBN received the Honorable Award of the GoldenKey-SDG Solutions from the China Sustainability Tribune
- ✓ DBN was listed in the SRC·HONOUR by the China Social Responsibility Conference
- ✓ DBN was selected as an excellent practice case in the *Research and Analysis on CSR in China's Food Industry* issued by the China National Food Industry Association
- ✓ DBN received the Beijing Top 100 Private Enterprises CSR Award from the Beijing Federation of Industry and Commerce
- ✓ DBN won the honor of 2023 ESG Emerging Influential Enterprise by Sina Weibo



Stakeholder engagement

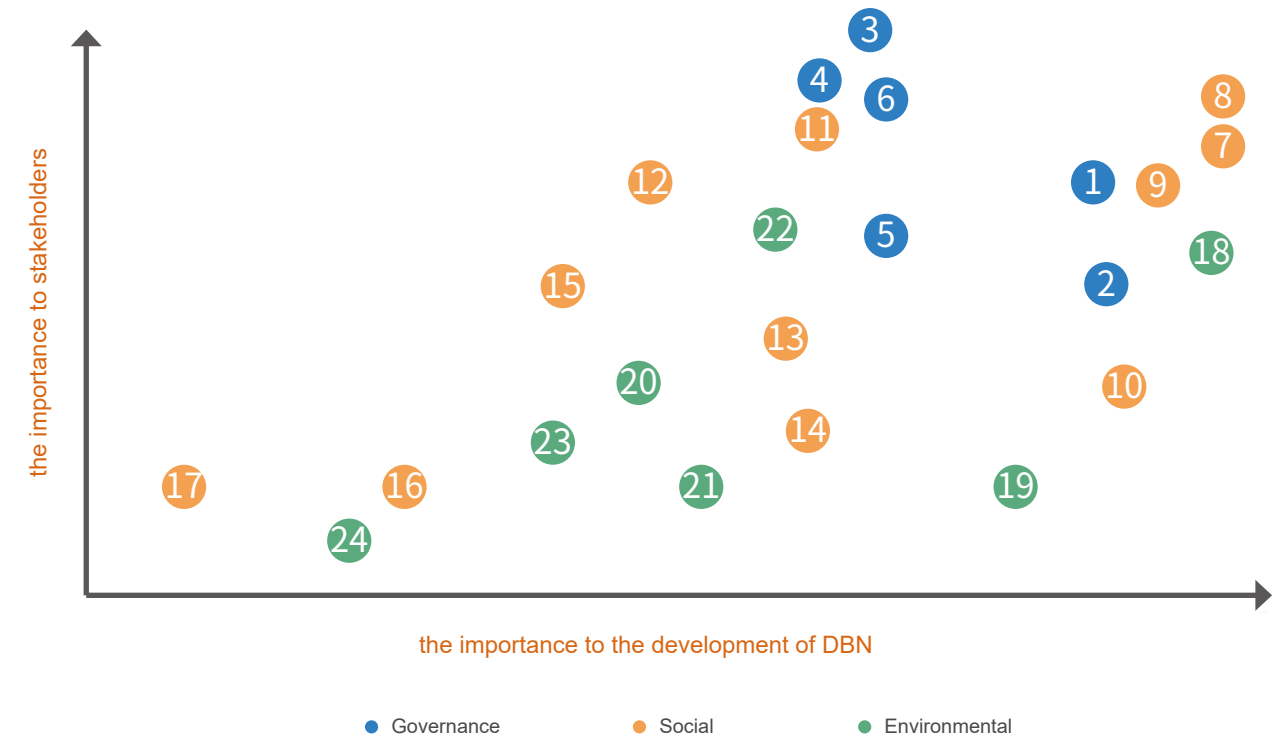
DBN communicates with stakeholders to timely understand and respond to their expectations and demand through various channels, which also serve as an important reference for the Company's ESG management. In 2023, we conducted over 300 times of exchanges with our employees, investors, government agencies, industry associations, and international organizations, etc. Together, we promote the achievement of the Sustainable Development Goals through practical actions.

Stakeholder	Appeal and expectation	Communication and response
Government and regulators	<ul style="list-style-type: none"> Law-abiding and compliant operation Support for industrial development Taxation according to laws 	<ul style="list-style-type: none"> Continuously strengthening enterprise compliance management Responding to national policies Paying tax proactively
Shareholders and investors	<ul style="list-style-type: none"> Improving corporate governance Preventing business risks Protecting the rights of investors 	<ul style="list-style-type: none"> Profit distribution Improvement of risk management The General Meeting of Shareholders Periodic report SZSE Easy Interaction platform Roadshow Performance briefing
Employees	<ul style="list-style-type: none"> Protection of basic rights Employee career development Employee care Occupational health and safety 	<ul style="list-style-type: none"> A competitive salary system Featured employee benefits Various forms of incentives Training & exchanges and provision of promotion channels
Customers	<ul style="list-style-type: none"> Product service quality Protection of legal rights Better customer service 	<ul style="list-style-type: none"> Optimizing the product quality management system Improving product after-sales service Providing agricultural technology services Meeting the diverse needs of consumers
Industrial chain partners	<ul style="list-style-type: none"> Win-win cooperation Compliance with industry norms Business ethics 	<ul style="list-style-type: none"> Building a responsible supply chain "Company + eco-farm" mode Distribution Partners Meeting Distribution Partners survey Career wealth community
Environment	<ul style="list-style-type: none"> Reducing pollution Addressing climate change Protecting water resources Ecological protection 	<ul style="list-style-type: none"> Carbon inventory and verification Energy conservation and emission reduction Integration of planting and breeding Excrement recycling Environmental information and risk disclosure
Communities	<ul style="list-style-type: none"> Common prosperity Charity Community development 	<ul style="list-style-type: none"> Industrial assistance Donation Volunteer activities Launch of charitable projects

Materiality analysis

In 2023, we identified and summarized the Company's core CSR topics, collected opinions and suggestions from stakeholders on these topics and studied information including national macro policies, the market development trends at home and abroad and sustainability trends of the industry, etc. Accordingly, we prioritized these topics in accordance with the significance in two perspectives, i.e. the "Importance to DBN's Business Development" and "Importance to Stakeholders". Later, targeted information was collected and sorted to help disclose these topics in the Report.

2023 Materiality Matrix



Governance

- 1 Compliance operation
- 2 Risk management
- 3 Protection of shareholder rights and interests
- 4 Investor relations
- 5 ESG management
- 6 Business ethics

Social

- 7 Rural vitalization
- 8 Seed industry revitalization
- 9 Talent training and development
- 10 Coordinated industry development
- 11 Product quality and safety
- 12 Consumer services
- 13 Employee rights and welfare
- 14 CSR management of the supply chain
- 15 Occupational health and safety
- 16 Volunteer services
- 17 Charity

Environmental

- 18 Climate change
- 19 Environmental management system
- 20 Water resources management
- 21 Energy management
- 22 Emissions management
- 23 Biodiversity conservation
- 24 Green office

Magnificent Three Decades of Striving to Strengthen Agriculture



In 1993, DBN was established by two founders with an investment of RMB 20,000 at two offices



In 1994, the DBN Expert Committee was established



The ceremony of granting DBN Scholarship in 1995

- 1993
 - On December 28, 1993, DBN was established by two founders with an investment of RMB 20,000 at two offices
- 1994
 - The DBN Expert Committee was established with Professor Yang Sheng, a famous animal nutrition expert, as the director and 14 experts and scholars such as Zhang Ziyi and Du Lun as members
- 1995
 - DBN Group put forward the strategy of “complementary advantages for a famous brand”, cooperated with enterprises across China, and jointly established Ningxia Dabeinong, Liuzhou Dabeinong, Xinxiang Dabeinong, and other enterprises
 - We introduced our corporate identity (CI), established the DBN brand, and created the DBN culture system
 - DBN was rated as one of the “four major development models” of the industry by China Feed Industry Association
 - We set up DBN Scholarship in five Chinese agricultural universities, which was renamed as DBN Inspiration Scholarship in 2003. So far, it has covered hundreds of agricultural Chinese universities, granting more than RMB 44 million to over 36,000 students
- 1996
 - We established the DBN (Huairou) production base, laying the foundation for feed production of DBN Group
- 1997
 - Taihe DBN was rated by the local government as a model of “learning from Hansteel and DBN” due to its excellent performance, becoming a local corporate benchmark
- 1998
 - DBN Group established feed branches across China and a sci-tech promotion network
 - DBN Group set up the “Agricultural Research Award Fund” (now the DBN Science and Technology Award) which is granted every two years to recognize researchers who have contributed to agricultural research
- 1999
 - The first DBN Science and Technology Award ceremony was held in Beijing



In 1996, the DBN (Huairou) production base was established



In 2003, DBN Development College was established



In 2006, DBN's three animal health subsidiaries were certified by the Ministry of Agriculture and Rural Affairs

- 2000
 - We established Nanjing Liangyoupeijiu Seed Company
 - DBN Group was elected as the vice president unit of the China Feed Industry Association
- 2001
 - DBN Group acquired over 165,333 m² of land in Beijing Yanqi Economic Development Zone (now expanded to more than 266,666 m²) to build the DBN (Beijing) Science and Technology Park, which integrates construction, demonstration, production, research, and training
 - Jixi Agrosino BIOTECH Co., Ltd. was established, marking DBN's entry into plant protection
- 2002
 - Beijing Dabeinong Animal Health Care Technology Co., Ltd. was established, marking DBN's entry into animal health
 - DBN Group was recognized as the “National Key Leading Enterprise of Agricultural Commercialization” by nine national ministries and commissions
- 2003
 - DBN Development College was established
 - Dr. Shao Gengang was selected as one of the Top 10 Outstanding Entrepreneurs in Zhongguancun
 - Fuzhou DBN Biotechnology Co., Ltd. was established, marking DBN Group's entry into the vaccine industry
- 2004
 - The Senior Expert Committee in the field of plant genetic engineering of DBN Group was established
 - Jinse Nonghua set up a breeding base in Sanya, Hainan Province
- 2005
 - DBN Group was selected as one of the Zhongguancun Top 20 Enterprises for a second year
- 2006
 - DBN (USA) branch was established
 - We were approved to establish the “Zhongguancun Science Park Haidian Postdoctoral Research Sub-center”
 - Three animal health enterprises in Beijing, Fuzhou, and Shaoshan received the GMP certification from the Ministry of Agriculture and Rural Affairs
 - The DBN Science and Technology Award was registered as a corporate sci-tech award in the Ministry of Science and Technology (No. 0148 of the National Sci-tech Award), and was officially included in the national science and technology award system
- 2007
 - The Party branch of DBN Group was established



In 2010, Beijing Dabeinong Technology Group Co., Ltd. was listed on the Shenzhen Stock Exchange



In 2011, DBN (Zhangzhou) Science and Technology Park was fully up and running



In 2012, the starter feed production line with an annual output of 180,000 tons was put into operation in DBN (Beijing) Science and Technology Park

- 2008
 - DBN was shortlisted for the second batch of “Pilot Innovative Enterprises” by the Ministry of Science and Technology, the State-owned Assets Supervision and Administration Commission of the State Council, and the All-China Federation of Trade Unions
 - Dr. Shao Genhuo, Chairman of DBN Group, was acclaimed Zhongguancun Top 20 New Leaders
 - Beijing Jinse Nonghua Seed Technology Co., Ltd. was rated as the “National Key Leading Enterprise of Agricultural Commercialization” and “National High-tech Enterprise”
- 2009
 - Dr. Shao Genhuo was awarded among the Top 10 Economic Figures for promoting the development of the feed industry in the past three decades of reform and opening up
 - The Group was jointly rated as a “National Innovative Enterprise” by the Ministry of Science and Technology, the State-owned Assets Supervision and Administration Commission of the State Council, and the All-China Federation of Trade Unions
- 2010
 - Beijing Dabeinong Technology Group Co., Ltd. was listed on the Shenzhen Stock Exchange (stock abbreviation: DBN; stock code: 002385), becoming one of the agricultural and animal husbandry enterprises with the largest financing size and the highest market value in China's agricultural industry
 - Dr. Shao Genhuo, Chairman of DBN Group, won the “Top 10 Outstanding Talent Contribution Award in Haidian District” and “Top 10 Outstanding Entrepreneur in Zhongguancun”
 - DBN Biotechnology Center was established with the goal of making DBN an “intelligent agricultural biotechnology leader”
 - The State Key Laboratory of Direct-Fed Microbial Engineering of DBN Group was approved by the Ministry of Science and Technology, becoming the only corporate state-level key laboratory in the feed industry
 - DBN Group was approved to set up “Beijing Dabeinong Technology Group Co., Ltd. Science and Technology Association” and “DBN Group Academician and Expert Work Center”
- 2011
 - DBN Support Fund was established
 - The world's largest production base of 1-million-ton pig feed per year, DBN (Zhangzhou) Science and Technology Park, was put into operation
 - In December 2011, DBN Group signed a strategic cooperation agreement with China Agricultural University, opening a new journey of comprehensive university-enterprise cooperation
 - The DBN Science and Technology Award was approved as the only private enterprise award qualified to directly nominate for national science and technology awards



In 2015, Beijing Its Interconnection Technology Co., Ltd. was established



In 2016, China Anti-poverty Research Institute was unveiled



In 2017, DBN (Daxing) Science Park was opened

2012

- With an annual output of 180,000 tons, the world's largest production line of high-grade starter feed was up and running at DBN (Beijing) Science and Technology Park

2013

- Xi Jinping, General Secretary of the CPC Central Committee, led all the members of the Political Bureau of the CPC Central Committee to visit Zhongguancun and inspect the latest bio-breeding research results of DBN. As a leader in agricultural sci-tech innovation, Dr. Shao Gengang reported the cutting-edge development of agricultural biotechnology and the latest innovation of DBN to General Secretary Xi and other Political Bureau members
- Accompanied by Han Changfu, former Minister of Agriculture and Rural Affairs, and Zhang Laiwu, former Vice Minister of Science and Technology, Wang Yang, then Vice Premier of the People's Republic of China, inspected the Jinse Nonghua seed research base to understand the development of modern seed industry

- The Party Committee of DBN Group was established, and Dr. Shao was elected as the first Party Secretary of the Party Committee

- DBN's porcine circovirus vaccine technology won the first prize in the National Science and Technology Progress Award

- The "20th Anniversary of the Establishment of DBN Group" was celebrated in Beijing

2014

- The project "Research and Application of Two-Line Hybrid Rice Technology" involving Jinse Nonghua won the special prize in the National Science and Technology Progress Award

- DBN Group was awarded the honorary title of "2013 Poverty Alleviation Ambassador"

2015

- Beijing Its Interconnection Technology Co., Ltd. was established

- Accompanied by Han Changfu, former Minister of Agriculture and Rural Affairs, then Vice Premier Wang Yang visited Beijing Its Interconnection Technology Co., Ltd. and highly appreciated the company's efforts in "Internet + Agriculture".

2016

- DBN and Renmin University of China jointly established the China Anti-poverty Research Institute

- Dr. Shao Genhuo was selected as a leading entrepreneur of Zhongguancun High-end Leading Talent Gathering Project

2017

- DBN (Daxing) Science Park was opened



In 2020, Dayouji Group was built, and the "Double Hundred, Thousand, and Ten Thousand Project" was launched



In 2022, the World Agricultural Center was officially inaugurated in Harbin



In 2022, Zhongguancun Rural Vitalization Alliance

- Dr. Shao Gengang was appointed as a member of the Board of Trustees of Zhejiang University

2018

- Cai Qi, then member of the Political Bureau of the CPC Central Committee and Secretary of the Beijing Municipal Party Committee, Li Jiheng, then Secretary of the Party Committee of the Inner Mongolia Autonomous Region, and other leaders visited DBN Group and got to know the progress of DBN Group's investment and poverty alleviation work in Inner Mongolia

- DBN (Bohai) Science and Technology Park was inaugurated

- DBN Veterinary Medical Research Center passed the CNAS accreditation assessment and was officially listed as a CNAS-accredited institution

2019

- DBN Group's herbicide-tolerant soybean trait product DBN-09004-6 obtained an official planting license from the Argentine government and insect-resistant and herbicide-tolerant corn trait product DBN9936 obtained the agricultural GMO safety certificate (production)

- DBN Phoenix International Innovation Park started construction in Zhongguancun Cuihu Science and Technology Park

2020

- DBN Group's vaccine technology business was upgraded and reorganized into Zhaofenghua Biotechnology Co., Ltd.

- Accompanied by Yu Kangzhen, Counselor of the State Council and former Vice Minister of the Ministry of Agriculture and Rural Affairs, the then Vice Premier Hu Chunhua visited DBN and highly appreciated the Company's efforts in innovation

- Dayouji Group was officially unveiled and the "Double Hundred, Thousand, and Ten Thousand Project" was launched

- The DBN9501 corn variety obtained the safety certificate for production and application in the northern spring corn area

- The DBN9004 soybean variety obtained the safety certificate for production and application in the northern spring soybean area

2021

- The Party Committee of DBN Group was awarded the title of "Beijing Advanced Primary Party Organization"

- The first vitalization primary school of DBN Group was unveiled

- The DBN3601T corn variety obtained the agricultural GMO safety certificate (production applications)

- The new veterinary drug of swine influenza bivalent inactivated vaccine (H1N1 DBN-HB2 strain + H3N2 DBN-HN3 strain) jointly declared by DBN Group was approved

2022

- DBN Group held the "2023 Global No.1 Feed Competitiveness Commitment Conference"



In 2022, DBN Phoenix International Innovation Park was grandly opened



The DBN joint development strategy was launched



The delivery ceremony of the song *Strengthening Agriculture and Serving the Country* in 2023

- We established Zhongguancun Agricultural Science and Technology Innovation Alliance and Zhongguancun Rural Vitalization Alliance
- We launched the Heilongjiang Significant Cause program and signed a comprehensive strategic cooperation agreement with the Heilongjiang Provincial People's Government on May 27

- The World Agricultural Center was officially inaugurated in Harbin

- The DBN8002 insect-resistant transgenic soybean event passed safety evaluations and was officially approved for planting in Argentina

- On December 28, DBN Phoenix International Innovation Park was grandly opened

- DBN Group was recognized as a sci-tech innovation leader and a national strategic company in the field of bio-breeding by the Ministry of Science and Technology and the All-China Federation of Industry and Commerce

- DBN was listed in the national live swine "shoring-up weakness" formation, Jinse Nonghua was listed in the national rice "enhancing advantages" formation, and Yunnan Datian Seed Co., Ltd was listed in the national corn "shoring-up weakness" formation

2023

- The DBN joint development strategy was launched
- Dr. Shao Genhuo was appointed as the Honorary President of Shanxi Agricultural University

- The Dabeinong Branch of the Party School of the Beijing Association for Science and Technology was inaugurated as the first branch of the Beijing Association for Science and Technology

- DBN Group assisted in the resumption of agriculture, animal husbandry, and fishery production after the natural disaster in Beijing, Tianjin, and Hebei

- The delivery ceremony of the first agriculture-themed song *Strengthening Agriculture and Serving the Country* created by the famous composer MS. Gu Jianfen for DBN Group was held in DBN Phoenix International Innovation Park

- DBN's insect-resistant transgenic soybean event DBN8002 obtained the safety certificate of the Huang-Huai-Hai-Xia soybean area (production application)

- DBN's herbicide-tolerant and insect-resistant transgenic soybean event DBN9004xDBN8002 was officially approved for planting in Argentina, and DBN's herbicide-tolerant transgenic soybean event DBN9004 was officially approved for planting in Brazil

- The Brazilian wholly-owned subsidiary of DBN was granted a biosecurity license

- Beijing Fengdo High-Tech Seed Industry Co., Ltd. and Beijing Jinse Nonghua Seed Technology Co., Ltd. were recognized as specialized and sophisticated SMEs in Beijing

- DBN Group was approved for the key laboratory of bio-breeding by the Ministry of Agriculture and Rural Affairs, key laboratory of protein feed bioengineering by the Ministry of Agriculture and Rural Affairs, key laboratory of southwest mountain corn breeding by the Ministry of Agriculture and Rural Affairs (Yunnan Datian Seed Co., Ltd.), and key laboratory of northwest pig breeding by the Ministry of Agriculture and Rural Affairs (Shaanxi Power Feed Technology Co., Ltd.)

“Running to 2035” long-distance running event celebrates the 30th anniversary of DBN

On October 28, 2023, 30,000 employees of 300 production bases and 300 branches and subsidiaries of DBN Group held the “Running to 2035” 3,000-meter long-distance running at the same time, fully demonstrating the entrepreneurial passion and spirit of DBN employees to observe the 30th anniversary of the Company.

The long-distance running event advocated a healthy lifestyle and united all employees who chased the same goal and tackled challenges together. Their unity and invincibility echoed the call to build the world's No.1 agtech company in 2035.



The 30th-anniversary ceremony of DBN “marching toward world’s No.1 in 2035”

On the afternoon of December 28, 2023, DBN's 30th-anniversary ceremony of “marching toward world's No.1 in 2035” was held in DBN Phoenix International Innovation Park, involving nearly 1,000 leading experts, guests from all walks of life, and entrepreneurs. The ceremony was live-streamed on the Xinhuanet application, cctv.com, cnr.cn, The Paper, Farmer's Daily, and other influential central media, websites, and online platforms. DBN's subsidiaries also set up their venues, with many guests and all DBN employees gathering in the cloud to witness this important moment.



“Marching to 2035” torch relay is held

To celebrate the 30th anniversary of DBN and promote the corporate philosophy of “strengthen agriculture and serving the country, striving for the best and pursuing common development”, DBN Group held a grand launching ceremony of “Marching to 2035” torch relay to ignite the enthusiasm of entrepreneurship. The entrepreneurship torch relay lasted 30 days and spanned 28 provinces to Beijing DBN Phoenix International Innovation Park. The flame showed the ambition of every DBN employee and embodied the aspirations of DBN for 30 years.



At the crucial juncture of building on the past for a bright future, DBN will be gratefully inspired by the support and encouragement of all stakeholders and aim high for greater success. Going forward, DBN Group, guided by the goal of “becoming the world's No. 1 agtech company in 2035”, will shoulder the mission of “strengthening agriculture and serving the country” and march ahead on the road of boosting agricultural innovation, solving global agricultural problems, and improving human well-being.

01

Enhancing Industrial Competitiveness

To make progress along the Chinese path to modernization calls for a stronger foundation of agriculture and comprehensive rural vitalization. To contribute to China's food security, DBN Group is devoted to crop technology, feed technology, pig breeding, vaccine and animal protection, and other fields. We continue to invest in R&D that lends greater support to agricultural technology, improve the joint R&D and application mechanism, and accelerate the commercialization of bio-breeding. Focusing on the key links in agricultural production, we expand service areas and models, which contribute to the high-quality and sustainable development of China's agriculture.

- RMB **1.405** billion revenue of crop technology business **48.84%** year-on-year increase
- RMB **24.02** billion revenue of feed technology business **7.76%** year-on-year increase
- RMB **5.702** billion revenue of pig farming business **4.31%** year-on-year increase
- **61,657,300** kg seeds sold by the crop science sector, covering around **33,333** km² of farmland
- Nearly **660,000** customers received seed business services
- Nearly **100** production bases of the feed technology sector across China
- Over **10** million tons production capacity of the feed technology sector
- **6,048,700** pigs put to market by DBN's shareholding pig breeding enterprises
- **2,589** cooperative ecological farms (or households) in the pig breeding industry

Crop Technology Business

Enhancing agricultural technology and accelerating the commercialization of bio-breeding

Germplasm resources security is closely related to national security. China must strengthen its seed industry to achieve self-reliance in the sci-tech development of the sector and keep the country's germplasm resources independent and controllable.

—Speech by Xi Jinping, General Secretary of CPC Central Committee on March 6, 2022, when he met members of the agricultural, social welfare, and social security sectors attending the fifth session of the 13th National Committee of the Chinese People's Political Consultative Conference

Keeping in mind the instructions of President Xi Jinping, DBN Group held a meeting on September 28, 2023, to commemorate the 10th anniversary of Dr. Shao briefing President Xi on the progress of bio-breeding on behalf of Zhongguancun agtech companies. Dr. Shao Genhuo, chairman of the board, detailed how the Company delivered the mission of “strengthening agriculture and serving the country” with practical actions, which lent support to the goal of “becoming the world’s No.1 agtech company in 2035”, China’s efforts to build up strength in agriculture, and national rejuvenation.



The 10th-anniversary ceremony of DBN Group briefing President Xi on the progress of bio-breeding

Business development

DBN’s crop technology business covers corn seeds, rice seeds, soybean seeds, biotechnology, seeds of commercial crops, and seed gene editing. Considering seed demand in the medium and long run brought by corn, rice, soybean, and vegetable industries, we have accelerated the collection and utilization of germplasm resources and established a corporate database of globally major germplasm resources. Our efforts are also concentrated on the research of core breeding technologies. We have joined hands with domestically leading research institutes and built an innovation consortium of soybean and corn bio-breeding. We also make every effort to pursue gene editing technology, whole genomic selection technology, big data breeding, and AI breeding, shaping a new-type and efficient commercial breeding system, which supports the sustainable output of major new varieties.

DBN’s crop technology business owns 28 breeding bases of over 1.7 million m², 156 seed production bases of around 370 million m², 12 processing factories, and 22 production lines in 26 provinces and 181 counties (cities or districts) across China. In 2023, the Company sold 61.6573 million kilograms of rice seeds, covering around 50 million acres of farmland.



Mission

To make seeds stronger and humans healthier



Value

Responsibility, teamwork, humility, simplicity, innovation, sharing

In terms of bio-breeding, the Company focuses on domestic and global markets. DBN is the leading enterprise with the number of GMO production and application certificates in China and is the first Chinese enterprise to obtain the planting license for trait products in other countries. As of the end of the reporting period, DBN’s corn trait products had received 14 agricultural GMO safety certificates (production and application). Our soybean trait products have been granted three domestic agricultural GMO safety certificates (production and application) and two domestic agricultural GMO safety certificates (imported for processing raw materials). Three soybean trait products have been approved for the Argentina planting license, and one soybean trait product has obtained the Brazil planting license, showing remarkable results that we have achieved so far. In December 2023, the Ministry of Agriculture and Rural Affairs announced that 37 GM corn varieties and 14 GM soybean varieties had passed reviews, including 22 corn traits (59%), five soybean traits (36%), and three corn varieties owned by DBN. The GMO production and operation license was granted to 26 companies including four subsidiaries of DBN. The Company’s subsidiary, Beijing Dabeinong Biotechnology Co., Ltd. (DBNBC), signed contracts with several seed companies for GM corn trait licenses and the Brazilian subsidiary DBNBC Brazil Ltda. received the biosecurity license (CQB), which qualifies the company to independently carry out local bio-breeding R&D, register, and engage in commercial promotion activities.



▲ Main varieties in the market using the DBN9936 insect- and glyphosate-resistant trait have improved herbicide and insect resistance.

In terms of hybrid corn business, DBN’s subsidiaries Beijing Fengdo High-Tech Seed Industry Co., Ltd., Sichuan Chuandan Seed Industry Co., Ltd., and Yunnan Datian Seed Co., Ltd. leverage their respective advantages to promote Nonghua 803, Chuandan 99, and Luodan 297 corn varieties and foster new growth drivers. They advance scientific research, production, and marketing. In 2023, Beijing Fengdo High-Tech Seed Industry Co., Ltd. was recognized as a specialized and sophisticated SME in Beijing.

Nonghua 803



- High resistance to bacterial wilt, ear rot, gray leaf spot, large and small leaf spot
- Aligned ear positions and well-developed roots
- The “never-fall” corn variety recommended by producers

Chuandan 99



- High resistance to gray leaf spot and ear rot
- Sturdy stems and not easy to fall
- Green stems and yellow large seeds
- Suitable for below-2000- meter mountains

Luodan 297



- High resistance to large leaf spot, ear rot, gray leaf spot, medium resistance to sheath blight, rust resistance
- Suitable for corn planting areas at an altitude of 1000-2000 meters in Yunnan Province

In terms of hybrid rice business, the subsidiary of DBN, Beijing Jinse Nonghua Seed Technology Co., Ltd., has launched varieties such as C-Liangyou Huazhan and Gongliangyou Yuenongsimiao and set up breeding stations in areas featuring great rice planting conditions, with production bases of nearly 6.7 million m². These varieties are promoted to southern indica rice areas such as the upper, middle, and lower reaches of the Yangtze River. In 2023, Beijing Jinse Nonghua Seed Technology Co., Ltd. was recognized as a specialized and sophisticated SME in Beijing. Its C-Liangyou Huazhan rice variety is promoted by the National Agri-Tech Extension and Service Center as one of the top 10 hybrid rice varieties given the size of its promotion areas.

C-Liangyou Huazhan



- “Super rice”
- High and stable output
- Resistance to rice blast disease
- Moderate growth period
- Good eurytopicity

Gongliangyou Yuenongsimiao



- High quality and easy to sell
- High and stable output
- Suitable ripening period and wide-space sowing
- Strong resistance to high and low temperatures
- Strong regenerative ability

► Fruitful results

By the end of 2023, the Company’s crop business owned:

Domestic patents		148
PCT PCT patents		88
Applications for new plant varieties	Rice	382
	Corn	647
Authorized new plant varieties	Rice	163
	Corn	266
New crop varieties reviewed by the state	Rice	123
	Corn	102
Genetically modified varieties reviewed by the state	Corn	3
	Soybean	5

Leading the integrated development of the seed industry

In September 2023, DBN Group held the Seed Development Summit Forum, which brought together nearly 300 industry leaders, experts, entrepreneurs at home and abroad, as well as key personnel of DBN Group’s seed business to discuss topics such as seed industry innovation, integrated development, and food security, bringing new insights to the development of the seed industry. During the meeting, DBNBC signed a cooperation agreement with GDM, Genseed Technology Co., Ltd. signed a contract with Jilin Hongze Equity Investment, and DBN Group signed a strategic cooperation agreement with Dali Prefecture and Yuanmou County.



▲ DBN Group's Seed Development Summit Forum






▲ DBNBC signs a cooperation agreement with GDM

Feed Technology Business

DBN Group’s feed technology produces domestically leading premix, starter feed, piglet feed, sow feed, and ruminant feed, and other high-end feed products. By establishing a sound management and smart manufacturing system, technical service system, and raw material supply chain platform, DBN strengthens system-based service capabilities and cements the Company’s dominance in low-end and high-end pig feed. We also provide comprehensive services ranging from feed smart manufacturing, raw material supply, technical services, and animal nutrition and health for small and medium-sized producers, family farms, and large-scale farms. We have established the state-level key laboratory in the feed industry—the State Key Laboratory of Direct-Fed Microbial Engineering, offering strong scientific and technological input for product innovation and promoting the sustainable and healthy development of the breeding industry.

➤ Feed products

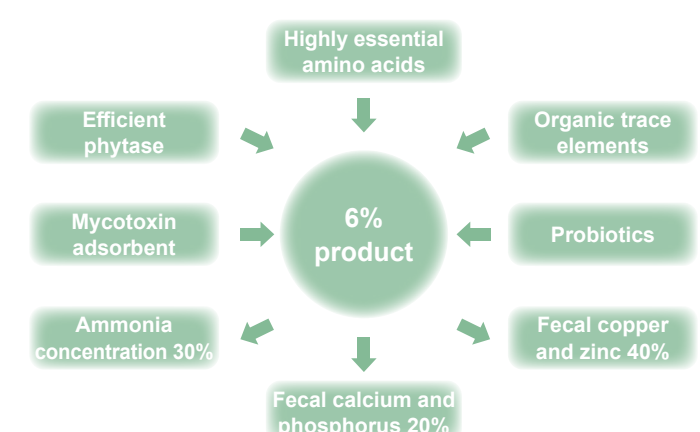
Based on feed nutrients and use ratio, feed is mainly divided into premix, concentrate feed, and compound feed. According to the animals fed, feed includes pig feed, ruminant feed, and aquafeed. Currently, the Company's feed business covers 28 provinces (municipalities and autonomous regions) in China, with nearly 100 production bases nationwide and a production capacity of more than 10 million tons.

<p>S612 (piglet 6% compound premix and feed)</p>  <ul style="list-style-type: none"> Stable high-quality organic trace elements and vitamins Comprehensive nutrients, good taste, easy to digest and absorb, and strong stability Widely used in livestock and poultry breeding 	<p>Xinbao Baozhuo II</p>  <ul style="list-style-type: none"> Formulated with high-quality raw materials High nutrition, high digestibility, and low antigen Good for the development of the digestive system of piglets Good for the immunity of piglets to avoid sub-health status 	<p>Cattle and sheep concentrate supplement: Health Companion</p>  <ul style="list-style-type: none"> Mixing raw materials using high-tech Regulating the rumen health of cattle and sheep and improving their feed intake Reducing the incidence of diarrhea, acidosis, bladder stones, etc. in cattle and sheep Improving the feed conversion rate and weight gain efficiency of cattle and sheep
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Developing eco-friendly products to reduce pollution

The pig 6% premix products developed by DBN are designed to provide safer, more efficient, eco-friendly, and cost-effective solutions. The products enable fast growth and feature a low feed conversion ratio, strong diarrhea resistance, high lean meat rate, good meat quality, low amount of soybean meal, high output, eco-friendliness, and safety. That is why the products are popular among most producers.

The 6% compound premix balances five essential amino acids and reduces the amount of added soybean meal by 70 kg/ton compared with the 4% premix. The addition of compound enzyme preparations can improve the digestion and absorption rate of feed by pigs and effectively reduce the concentration of ammonia in pig houses.



➤ Service system

Nine service platforms

<p>Culture & team building platform</p>	<p>Driven by the mission of "strengthening agriculture and serving the country", we promote corporate development with the power of corporate culture and talent and devote ourselves to the great project of joint development model.</p>
<p>Feed platform</p>	<p>We have set five departments: the State Key Laboratory of Microbial Engineering for Feed Use, the R&D Center, the Product Verification Center, the Market Product Center, and the Premix Technology Center.</p>
<p>Engineering construction service platform</p>	<p>It is a department specializing in the construction of modern and efficient farms and feed factories, based in Beijing and serving the whole country. It has completed the construction of more than 100 high-standard feed factories and 100 modern and efficient pig farms.</p>
<p>Fund and finance management platform</p>	<p>We implement a standardized cost management model, and develop the joint model supported by the best system-based services. We integrate the business and finance of the joint development model and leverage the leading role of digital intelligence.</p>
<p>Health management platform</p>	<p>We summarize best practices and put them into a manual. We also put forward module-based solutions and ensure standardized implementation to meet the goal of healthy, efficient, and low-cost pig herd management for partners and help them maintain stable operations.</p>
<p>Pig breeding platform</p>	<p>In response to seed industry vitalization, we focus on "pig chips" such as blue-ear- and PRV-negative pigs and high-quality pig semen to provide excellent breeding pig genes.</p>
<p>Market information service platform</p>	<p>It is committed to building an information highland for the pig farming industry by referring to internal and external data. We aim to ensure that our partners maintain the value of their assets and increase their incomes. It is an empowerment platform to strengthen the joint development model.</p>
<p>Feed management platform</p>	<p>We uphold the business philosophy of "combined planting and breeding, ecological circulation", highlight efficient pig farming technology and operation system, serve thousands of pig producers, and promote the transformation of the pig farming industry in China.</p>
<p>Digital intelligence service platform</p>	<p>With the mission of "using Internet technology to change agriculture", we have made intensive efforts in the last eight years and are committed to building the most influential agricultural ecosystem of digital intelligence.</p>

Pig Farming Technology Business

In 2011, Beijing Dabeinong Pig Breeding Technology Co., Ltd. was established. In 2016, the Company developed pig farming business, with footprints in Northeast China, Central South, South China, East China, North China, and Northwest China according to local conditions, promoting the sustainable development of the pig farming business, marking the start of the Company's pig farming technology business.

Business development

DBN's pig farming technology business has established 12 major farming platforms and 84 subsidiaries in China, reserved land for nearly 300 million pigs ready for market, and put into operation 100 pig farms that keep over 400,000 basic sows.

Putting together the strengths of two national core breeding farms, we ensure nationwide distribution of high-quality sows and semen, providing high-quality Landrace pigs, Large White pigs, and Duroc purebred pigs. We can offer 40,000 blue-ear- and PRV-negative breeding pigs and 800,000 samples of excellent semen, with a production capacity of more than 100,000 high-quality breeding pigs to provide sound pig genetic resources for China's pig breeding.

By the end of 2023, the pig farming technology business of DBN had covered 24 provinces (municipalities and autonomous regions) in China and cooperated with more than 2,000 ecological farms (or producers). In 2023, the Company's holding and shareholding enterprises put 6.0487 million pigs to market.

Farming model

The raw materials purchased for the pig farming business are mainly feed and animal health products, most of which are provided by the DBN's subsidiaries. Feed is ordered while veterinary drugs and vaccines are centrally procured. When it comes to farming, the Company has established the farming models of "self-breeding and self-farming" and "company + ecological farm". Under the "company + ecological farm" model, after the Company cultivates or purchases piglets from suppliers, they are fattened by producers following the Company's specified farming standards. When these pigs are ready for market, they are collected by the Company which then sells them to customers and pays producers farming fees.

Excelling in culture, management, technology, biosecurity prevention and control, environmental protection, and supply chain of pig farming, the Company seizes opportunities in the industry, provides comprehensive services such as animal nutrition and health for small and medium-sized producers and family farms, and connects upstream and downstream players to build an open, united, sharing, and sustainable pig farming ecological platform.



▲ Pig farm in partnership with the Company



The first version of DBN's new pig farming management system is launched

The high-quality development of modern pig farming depends on the support of a strong management system. In April 2023, the new pig farming management system of DBN, which underwent nearly three years of design and development, launched its first version. The new pig farming management system, based on the Northeast Platform, is modeled after an industry-leading management model. The project includes nine major sectors: sow farm management, fattening farm management, producer management, procurement, sales, warehousing, logistics, human resources, and finance.

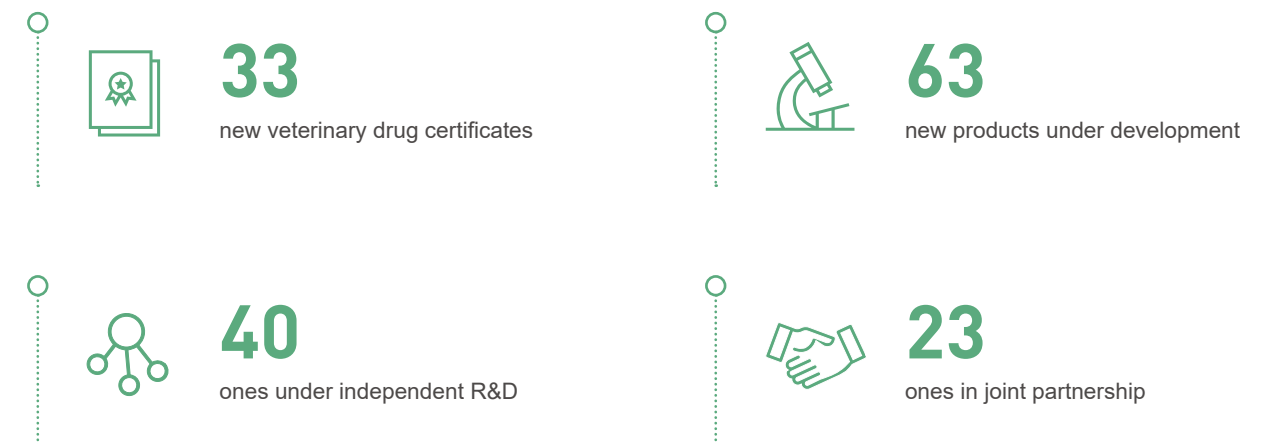
The launch of the system aims to create an efficient online operation, production, and management system to meet the new demand for multi-model smart pig farming at different groups, platforms, and levels. The system supports the two core pig farming modes of self-breeding and self-farming and "company + ecological farm", and reserves enough space for subsequent needs.

Animal Health and Vaccine Business

The animal health and vaccine business of DBN shoulders the mission of developing China's biotechnology and creating a biotechnology enterprise with world-class quality and service. The animal health and vaccine business is committed to offering world-class comprehensive solutions for biosecurity prevention and control to support the sound development of China's animal farming industry.

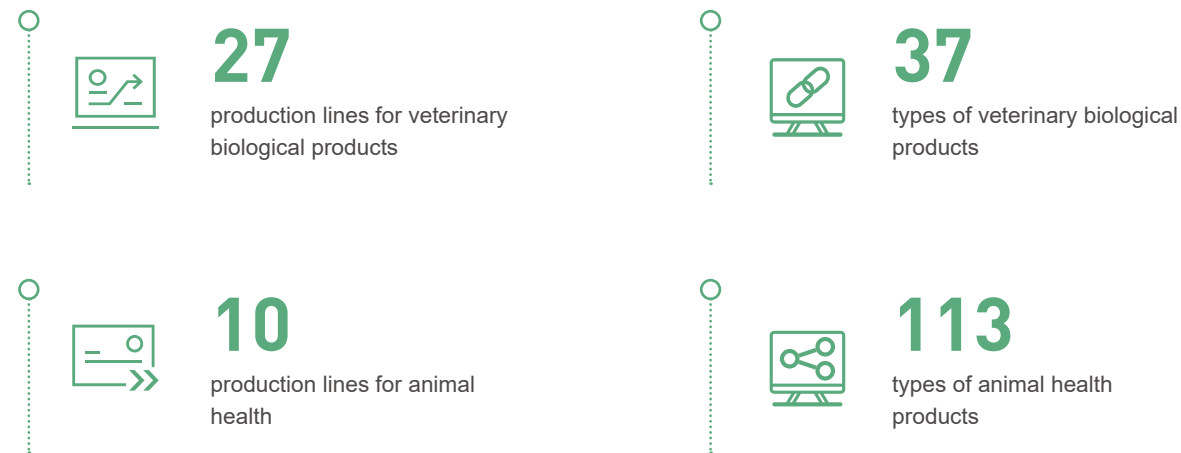
Research and development achievements

DBN's animal health and vaccine business owns two innovation platforms – the "National Engineering Technology Research Center for Veterinary Biological Products" and "Engineering Research Center for Efficient New-type Vaccines for Animals", five modern sci-tech parks, and two research institutes. We operate three main business sectors of vaccines, animal health, and diagnostic products, and provide farming health management services. We have 33 new veterinary drug certificates and 63 new products under development, including 40 ones under independent R&D and 23 ones in joint partnership.

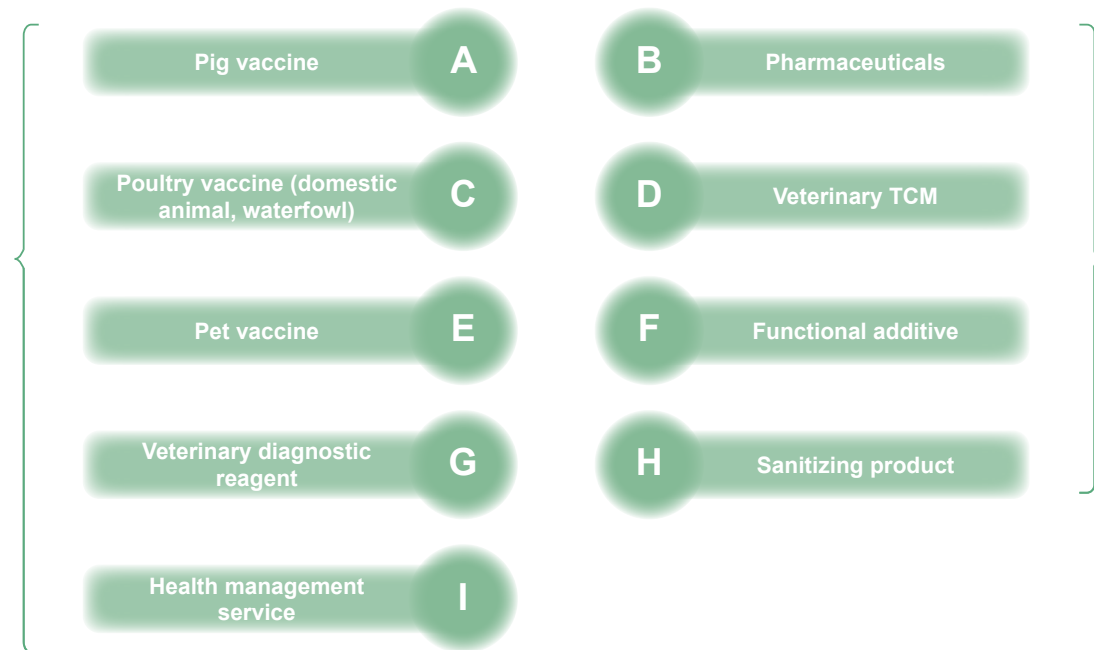


► Production system

The Company owns 27 production lines manufacturing 37 types of veterinary biological products and 10 production lines for 113 types of animal health products. The animal health and vaccine production system has passed the new version GMP review with overall equipment updated, realizing the whole-line smart production of veterinary biological products and animal health products. We also upgrade product technology, improve product quality and production efficiency, and reduce energy consumption.



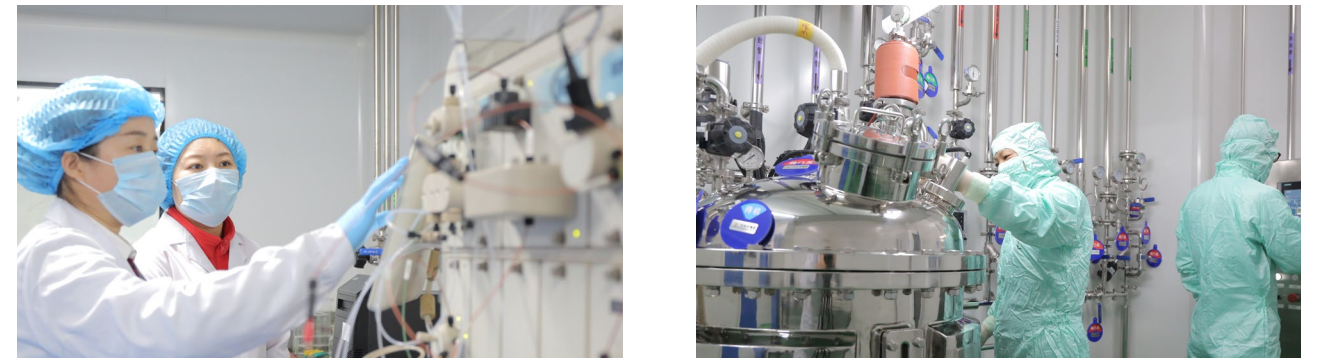
Veterinary biological products





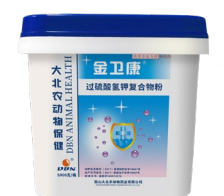
Animal health products

► Health management system

The Company has set up the CNAS-accredited diagnostic project center and diagnostic testing center to guarantee the quality of testing methods and results. The testing laboratory of DBN has obtained more than 40 CNAS-accredited testing items. At the same time, the establishment of four health management teams, namely the college expert team, Zhaofenghua health management team, Dabeinong feed health management team, and Dayouji provides farmers with science-based, fair, practical, and efficient biosecurity detection or customized biosecurity prevention and control services. Aiming to create the world's No.1 health management brand, the Company's health management system continues to support the green development of China's animal husbandry and veterinary industry.



► Quality products

<p>Zhibinong</p>  <ul style="list-style-type: none"> • The world's first swine mycoplasma hyopneumoniae live vaccine • Stronger efficacy of the live-attenuated 168 strain • Over 85% of protection rate with a protection period up to 9 months 	<p>Mycoplasma gallisepticum bacterin</p>  <ul style="list-style-type: none"> • Higher protection using a prevalent strain • Antigen over 100 times higher than the national standard using patented technology • Reduced secondary infections of respiratory diseases in chickens 	<p>Jinweikang</p>  <ul style="list-style-type: none"> • Potassium peroxydisulfate as the main ingredient • Unique compounding technology effectively kills viruses, bacteria, fungi, and other pathogenic microorganisms aiming multiple targets through multiple pathways • A key role in biosafety prevention and control
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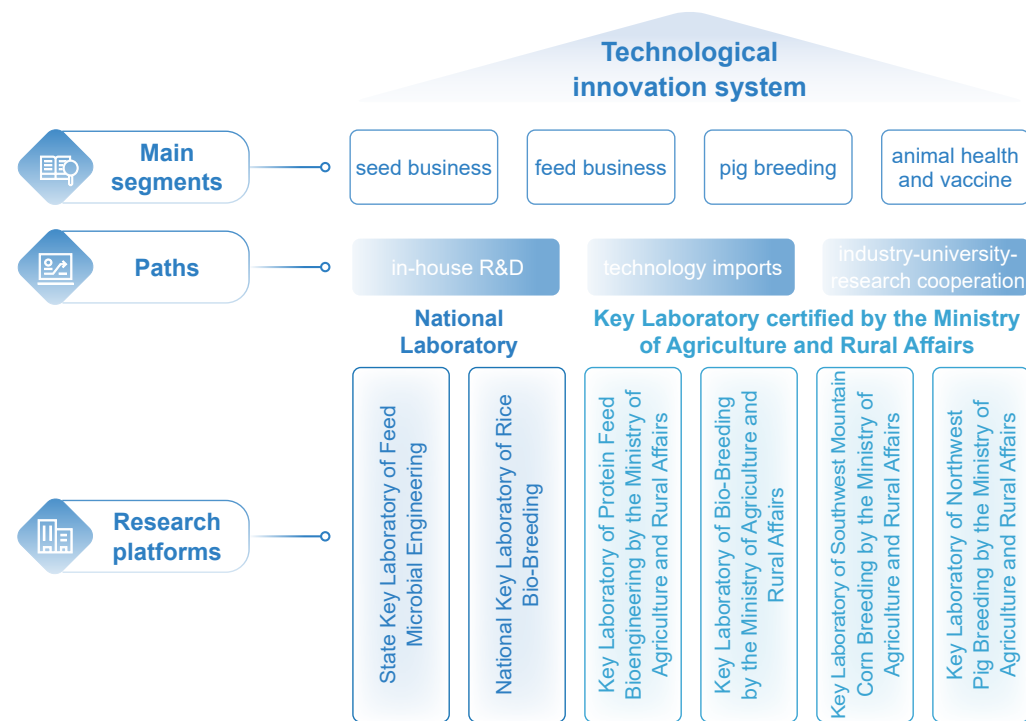
Fostering the Driving Force of Scientific and Technological Innovation

Serving China's strategic pursuit of sci-tech self-reliance and self-strengthening, DBN shoulders our mission and puts sci-tech innovation at the core. In response to the major demand for agricultural technology in China, we continue to tackle difficulties in the research of agricultural and rural sci-tech and strive to build a globally influential sci-tech innovation team. In the agricultural sector, we contribute DBN's wisdom and solutions. Devoted to agricultural sci-tech innovation for good, DBN develops the DBN Science and Technology Award as a non-profit award that rewards sci-tech personnel who have made outstanding contributions to agricultural application research, giving back to agriculture and society and advancing AgTech progress in China.

- 2 state-level laboratories
- 4 key corporate laboratories certified by the Ministry of Agriculture and Rural Affairs
- 13 other provincial and ministerial R&D platforms
- 30 national high-tech subsidiaries
- 6 national key leading enterprises in agricultural commercialization
- 4 subsidiaries under the national seed industry matrix
- The Company had **2,991** R&D personnel R&D personnel accounted for **16.2%**
- RMB **834** million R&D investment R&D investment accounted for **2.50%**
- 12 intellectual property protection activities held, covering about **2,100** participants

Scientific and Technological Innovation System

Shouldering our mission of strengthening agriculture and serving the country (empowering agriculture through technology and serving the country with business development), we serve the innovation-driven development strategy, ramp up R&D investment, and strengthen in-house innovation capabilities and IPR protection. Supported by the resources and innovation environment of DBN Phoenix International Innovation Park, we take innovation as the fundamental principle of the Company and adopt biotechnology and information technology. Through in-house R&D, technology imports, technological commercialization, and industry-university-research cooperation, we build a leading corporate innovation system in China, shape our core competitiveness, and lead AgTech innovation and development.



Building research platforms



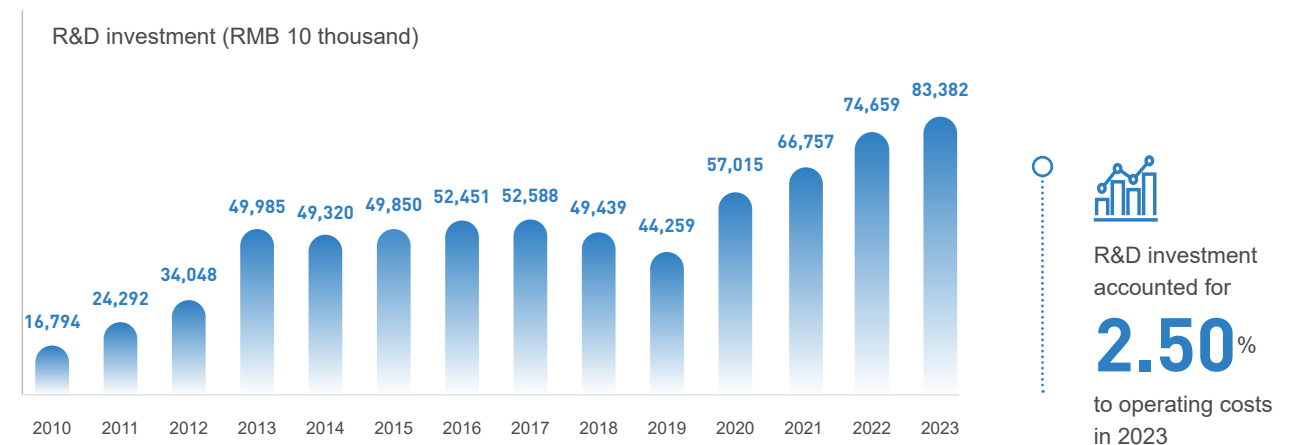
Selected as the national seed industry key enterprise

The Ministry of Agriculture and Rural Affairs selected companies in the seed industry and accelerated the formation of a seed industry matrix that focused on addressing obstacles, shoring up weaknesses and enhancing advantages.

Given factors such as innovation, assets, market shares and development potential, 69 enterprises stood out as national seed industry key enterprises, among which:

- DBN entered the live swine “shoring-up weakness” sector;
- DBN’s subsidiary Jinse Nonghua entered the rice “enhancing advantages” sector;
- Yunnan Datian Seed Co., Ltd. entered the corn “shoring-up weakness” sector;
- Longke Seed, whose shares are partially owned by DBN, entered the soybean “shoring-up weakness” sector and the japonica rice “enhancing advantages” sector.

Continuous investment in research and development



Pooling strengths for innovation

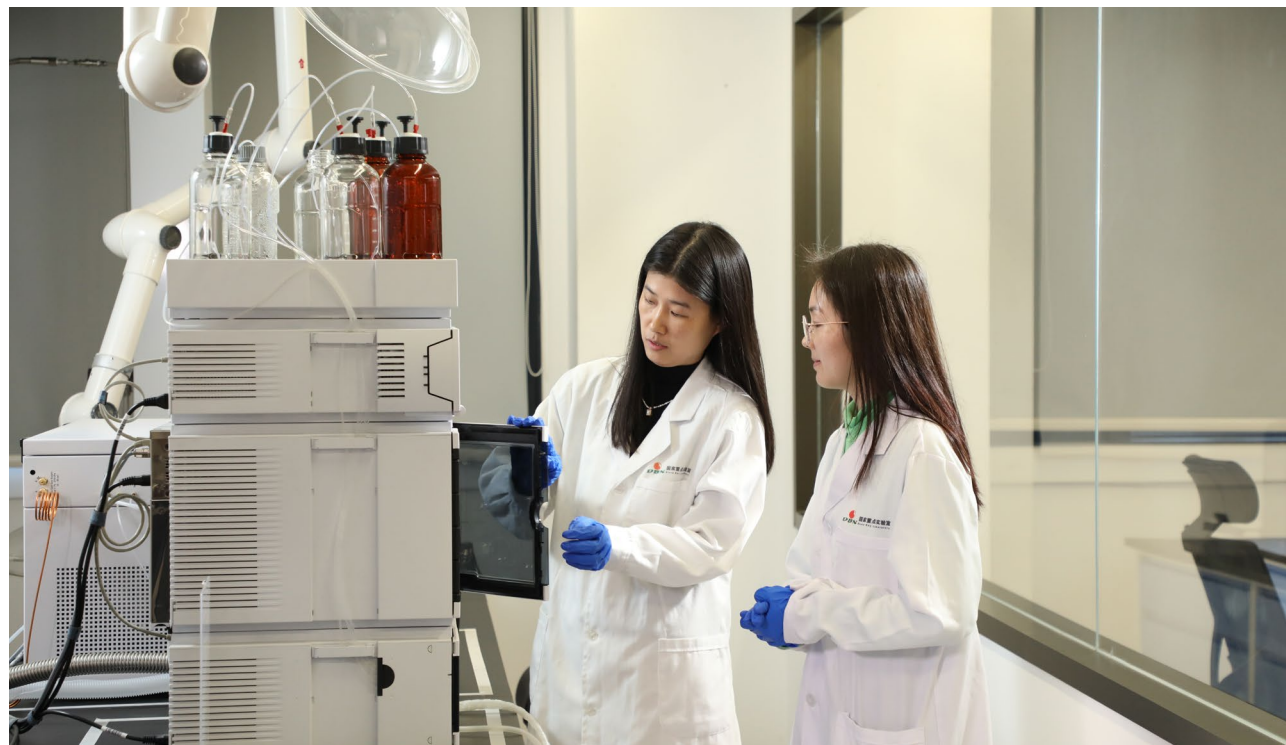
The Company maintains long-term close cooperation with universities or institutes such as the Chinese Academy of Agricultural Sciences, China Agricultural University, Chinese Association of Animal Science and Veterinary Medicine, and the China National Rice Research Institute. In 2023, the Company reached strategic cooperation or upgraded cooperation contracts with 14 universities and associations, and completed more than 50 sci-tech cooperation projects such as joint technical research and commercialization of major achievements.

Cultivation of Scientific Research Talents

The Company strengthens the training of researchers, explores the innovative talent training model of university-company cooperation, and enhances industry-university integrated training and special training. We train personnel and stimulate the creativity of researchers in innovation projects to help them stand out as urgently needed professionals serving national strategies.

Joint cultivation of scientific research talents

- In 2023, the Company engaged in the joint education of **3** postdoctoral research fellows with the Institute of Feed Research of Chinese Academy of Agricultural Sciences, Institute of Crop Science of Chinese Academy of Agricultural Sciences and Yunan Agricultural University through the postdoctoral research center
- In 2023, we undertook the pilot “Special Reform Project for Engineering Master’s and Doctoral Programs”, and jointly educated **13** engineering graduate and doctoral students with China Agricultural University and Huazhong Agricultural University
- We cooperated with China Agricultural University to carry out the “Industry-University-Research Cooperation and Collaborative Education Project” and the joint education of graduate and doctoral students (DBN special project) which involved **18** graduate and doctoral students



Obtaining top-notch talent accreditation

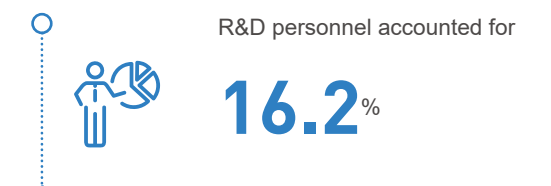
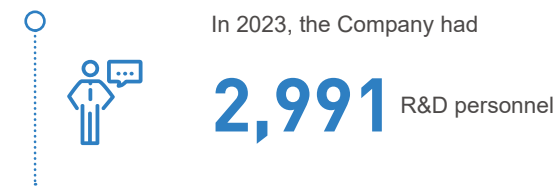
The Company seeks the official accreditation of top-notch talent and leads self-reliant sci-tech innovation. By the end of 2023:

- The Company had **76** employees holding deputy senior titles or above, including **3** state-level innovation and entrepreneurship pioneers and **1** national outstanding researchers
- The Company also had **1** employee recognized as outstanding contributors to Beijing, **1** Beijing sci-tech rising star, **1** Beijing outstanding youth talent team, **1** Mao Yi-sheng Beijing youth sci-tech award receiver, **3** Beijing excellent young engineers, **4** employees included in the Beijing Association for Science and Technology Young Talent Support Project, and **4** Haiying project talent

Stepping up efforts to attract talent

The company attaches great importance to the introduction and construction of scientific and technological innovation talents and steps up efforts to attract talent. By the end of 2023:

- The Company hires **1** corn breeding scientist, **11** corn breeding experts, **11** rice breeding experts, **1** soybean chief scientist, **1** spinach breeding expert, and **1** tomato breeding expert



Four employees of DBN Group are included in the 2023-2025 Young Talent Support Project

The Beijing Association for Science and Technology Youth Talent Support Project explores an innovative young sci-tech talent training mechanism and aims to support a group of outstanding young researchers with heightened political awareness and strong innovation and entrepreneurship. It provides consistent three-year training for young sci-tech talent. The DBN Association for Science and Technology, as a primary branch of the Beijing Association for Science and Technology, is engaged in the organization and selection of candidates for the Project for the first time. Dr. Cheng Linghua, Dr. Li Peili, Dr. Sun Kaiji, and Dr. Jin Jin are chosen for the Project.

Fruitful Research Results

Committed to promoting the innovation-driven development of modern agriculture in China, DBN Group optimizes the strategic structure of AgTech innovation and highlights the supporting role of AgTech.

By the end of 2023, the Company secured the following research achievements

Name	Number
National Science and Technology Progress Awards	6
Provincial and ministerial-level science and technology awards	19
National projects under research of Group headquarters	21
Patent applications	2,681
Authorized patents	2,010
New plant varieties validly authorized	429
New crop varieties reviewed by the state	225
National new veterinary drug certificates	33
Computer software copyrights	137

Several DBN's genetically modified corn and soybean trait products are granted the agricultural GMO safety certificate

In the 2023 approved list of the agricultural GMO safety certificates (production applications) issued by the Department of Science, Technology, and Education of the Ministry of Agriculture and Rural Affairs, the insect-resistant transgenic soybean event DBN8002 developed by the Company obtained the Huang-Huai-Hai-Xia soybean area safety certificate (production application). DBN8002 is DBN's first insect-resistant and herbicide-resistant transgenic soybean event. The granting of the production safety certificate will enable the Company to gain market shares in the Huang-Huai-Hai-Xia soybean area and have a positive impact on the soybean business within China. Currently, the first generation of transgenic products under the Fengmai® series outpaces other competitors in commercialization. 4 corn trait products have obtained the agricultural GMO safety certificate (production and application), and 2 soybean trait products have obtained the agricultural GMO safety certificate (production and application) and agricultural GMO safety certificate (import).

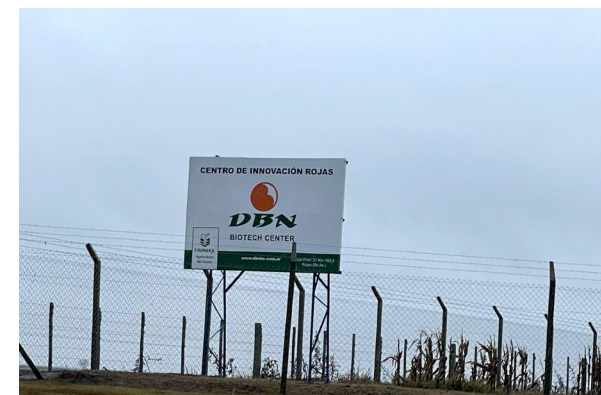
4 corn trait products granted the agricultural GMO safety certificate (production and application)

2 soybean trait products granted the agricultural GMO safety certificate (production and application) and agricultural GMO safety certificate (import)

Genetically modified products have been granted planting licenses in Argentina and Brazil

In October 2023, the Argentine Ministry of Economy announced that the combined events of the herbicide- and insect-tolerant transgenic soybean DBN9004×DBN8002 (DBN-9004-6×DBN-8002-3) developed by DBN Group passed the safety evaluation and thus was approved for planting. Herbicide- and insect-tolerant transgenic soybean events DBN9004 and DBN8002 were previously approved for planting in Argentina in 2019 and 2022 respectively. The combination brought together the advantages of DBN9004 and DBN8002 events, generating excellent products featuring herbicide- and insect-tolerant traits.

In November 2023, Brazil's National Technical Commission on Biosafety (CTNBio) announced that the herbicide-tolerant transgenic soybean event DBN9004 (DBN-9004) developed by DBN Group passed the safety evaluation and was officially granted the planting license. The planting license in Brazil marked another important milestone for DBN Group to expand the South American market.



Wasting no time and marching forward bravely on the journey of “strengthening agriculture and serving the country”

In November 2023, as a supporting enterprise, DBN Group participated in the World Agrifood Innovation Conference. The conference invited globally influential scientists, educators, and entrepreneurs, as well as outstanding young students. They discussed the latest topics in agtech innovation, shared the latest achievements, and promoted industry-university-research cooperation and achievement commercialization to foster new drivers for global agricultural development. Dr. Shao Genhuo, Chairman of DBN Group, attended the opening ceremony and delivered a keynote speech entitled *Building China’s Strengths in Agriculture is an Important Guarantee for Food Security in 2050*.



▲ Opening ceremony of the 2023 World Agrifood Innovation Conference



▲ The company participated in SPACE, the international exhibition for animal farming in France



▲ DBN Group participated in the opening ceremony of the World Agricultural Scientific and Research Findings Exchange Center and the latest agtech achievements release conference

IPR Protection

With an emphasis on protecting intellectual property, we strictly follow national laws and regulations, put in place an intellectual property center, and standardize patent management. Management policies such as the *DBN Group Intellectual Property Management Measures* and *DBN Patent Incentive Measures* have been revised to clarify the overall logic, tasks, objectives, and specific measures of IP legal protection and strengthen the creation, utilization, management, and protection of the Company’s intellectual property for greater core competitiveness. In 2023, the Company applied for 110 new patents including 80 invention patents, 27 utility patents, and 3 design patents.

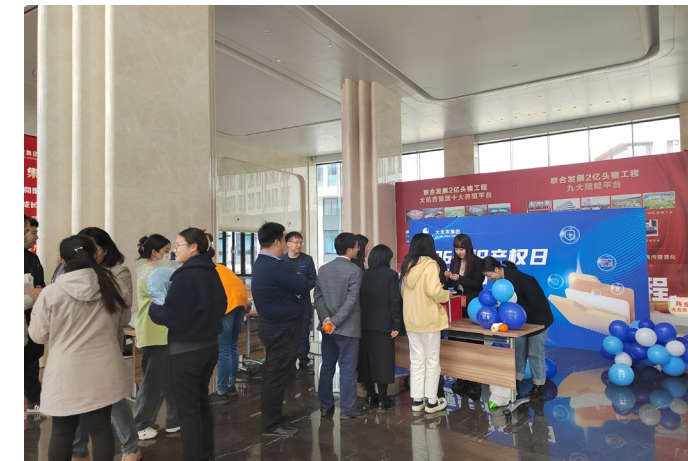
Intellectual property management system gets certified

In April 2023, the company passed the intellectual property management system certification again since it complied with the standard GB/T29490-2013, and received the certification accordingly.

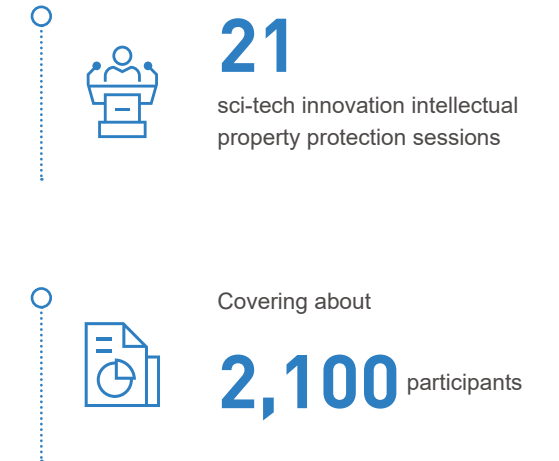


Intellectual property protection training

To heighten employees’ intellectual property awareness and prevent intellectual property risks, during the reporting period, the Company’s intellectual property center held 21 sci-tech innovation intellectual property protection sessions, covering about 2,100 participants.



▲ An intellectual property prize-winning quiz held in DBN Phoenix International Innovation Park



Scientific and Technological Innovation for Public Welfare: DBN Science and Technology Award

The 13th DBN Science and Technology Award achieved a historic breakthrough

To promote AgTech innovation and commercialization, DBN Group has set up the DBN Science and Technology Award approved by the Ministry of Science and Technology. In 2023, the 13th DBN Science and Technology Award kicked off the selection process. This new session features three major upgrades and encourages all stakeholders to engage in agtech innovation and build up China’s strengths, not just scale, in agriculture.

- The 13th DBN Science and Technology Award is expected to grant the largest number of awards and rewards since its establishment 24 years ago, with a total reward of RMB 30 million.
- The 13th DBN Science and Technology Award grants awards in the field of food and biomedicine for the first time and covers key and emerging areas related to economic growth, daily life, and people’s health, such as agriculture, food, and biomedicine.
- The 13th DBN Science and Technology Award sets up a Youth Sci-tech Innovation Award for scientists under 30 for the first time to encourage the high-quality and stable career growth of young researchers, which fully demonstrates that the DBN Science and Technology Award is inclusive and comprehensive in encouraging sci-tech innovation.

The upgraded 13th DBN Science and Technology Award captured the attention and support from all walks of life. By the end of the deadline, a total of 680 applications had been received, the largest number of applications in the Award’s history.

03

Fostering Industrial Consortia

DBN Group cooperates with upstream and downstream partners by sharing technology, information, and resources to practice the concept of sustainable development. We make positive contributions to product and service quality, sustainable supply chain, win-win cooperation, and rural vitalization to synergize social and commercial values.

- The crop technology industry served nearly **660,000** rural households
- The company cooperated with and audited **1,508** suppliers in the feed technology industry
- There are more than **2,000** cooperative ecological farms (farmers) in the pig breeding industry
- The crop science and technology industry held more than **8,750** visits
- A total of about **550,000** major growers and partners were invited
- The company has signed a strategic cooperation agreement with a total of **30** institutions
- Leading the establishment of the "Protein Feed Biomanufacturing Innovation Consortium" to solve innovation-related bottlenecks, which engages **110** member enterprises

Industrial Joint Development



Promoting the “company + ecological farm” model to advance vitalization and prosperity

DBN Group helps villagers increase their incomes to realize business growth and poverty alleviation

Given the distribution of resources in the farming industry, the production model of “company + ecological farm” entrusts farming to ecological farms. The Company builds a sow farm in the industrial park and provides weaned piglets to ecological farms. Producers and professional cooperatives then build pig houses following the Company’s requirements and raise piglets using the feed, vaccines, and feeding technology and management offered by the Company. Pigs ready for market are collected and sold by the Company. Financing services are also provided. This model has effectively improved producers’ income and employment.

The Company has carried out in-depth equity cooperation and created new approaches to developing the collective economy. Following the national work plan of “one distinguished product for one village or one cooperative”, we reach out to towns and villages. For example, in the 15 administrative villages of Jiangxi Province, we absorb assistance funds and special funds reserved for the village collective economy. Under the contracts we signed and with the help of asset companies, the annual investment returns of village collective funds have been improved.

In addition, we lease nearly idle 2 million m² of mountain farms where our projects are located and pay a lump sum of rent in the next three decades, which increases the rental income of the village collective economy.

We also employ nearly 100 locals lifted out of poverty who are still able to work and offer informal job opportunities from time to time, effectively widening the access for local households to increase income.

“The price of live pigs is uncertain and low, but DBN still pays us reasonable prices in the trough of the market. As a responsible enterprise, DBN builds pig farming branches, pig farms, and feed factories. They have done business in our area for many years, which helps many producers to increase their incomes. We choose to work for DBN and we are certain that our incomes will rise. There is nothing to worry about.”

—Wang brothers who participate in the DBN cooperative pig farming project”



DBN Group explores innovation, provides accurate advice and support through an in-depth understanding of business partners’ business and industry trends, and helps business partners stand out in a fiercely competitive market. We also protect the legitimate rights and interests of customers and bring them a better service experience.



Leading the establishment of the “Protein Feed Biomanufacturing Innovation Consortium” to solve innovation-related bottlenecks

The Protein Feed Biomanufacturing Innovation Consortium was developed from the “14th Five-Year Plan” national key R&D program: “Protein Feed Bioengineering Frontier Technology and New Product Creation”. The Consortium was initiated and established by 10 project units including DBN Group. With the overall goal of “improving soybean meal efficiency, reducing soybean meal amount, and seeking alternatives”, the consortium features three core structures including a promotion platform, an exchange and cooperation platform, and a commercialization platform. It enables the high-degree integration of the feed and breeding industry in terms of innovation, technology, and business, realizes the internal circulation of feed resources, and seeks solutions to China’s problem of excessive dependence on soybean imports.

As the protein project advances, the consortium now includes 110 member units with 35 soybean meal reduction and alternative feed breeding demonstration bases, setting an example for China’s actions to reduce the use of soybean meal, seek an alternative, and ensure national food security.



Offering professional services

The Company has launched a series of business partner service improvement measures and tailored solutions based on the needs and preferences of business partners to achieve personalized services. In 2023, the company has more than 2,000 pig cooperative eco-farms (farmers) and nearly 660,000 farmers served by the seed industry.

The Company also ventures into digital service channels. With the support of modern technology, we provide business partners with more convenient and personalized services, improve business partner satisfaction, and strengthen the interaction and cooperation between the Company and business partners for win-win outcomes.



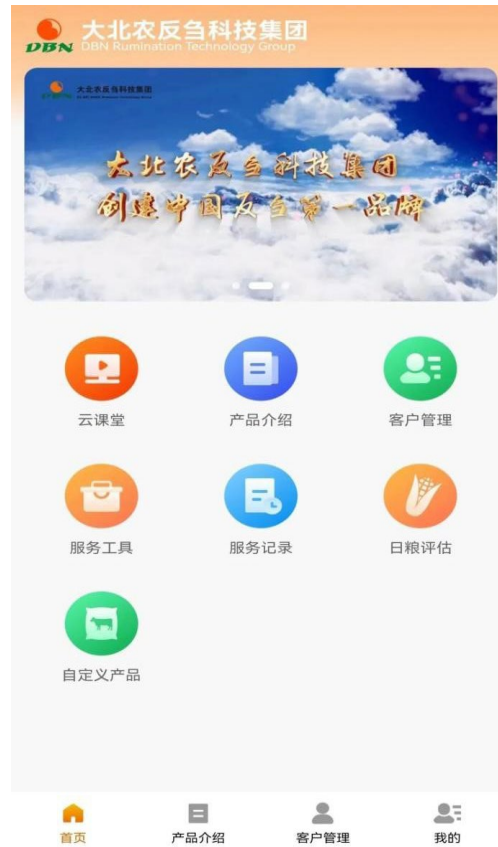
A benchmark partnership in Jiangsu on animal health and vaccine business

Taixing Dingwang Animal Husbandry Co., Ltd. has a herd of 1,000 Canadian sows and sells two-way crossbred and three-way crossbred piglets. Since the Company cooperated with Taixing Dingwang Animal Husbandry Co., Ltd. in March 2022, we have employed the Company’s health management service platform for all-round cooperation in health management services and vaccines, veterinary drugs, and diagnostic products, achieving remarkable results in ensuring pig farm safety, pig health, production efficiency, and cost reduction.

- Establishing a relatively complete set of biosecurity policies (personnel and material entry process, testing system, biosecurity audit system, etc.) to lay a solid foundation for disease prevention and control;
- Assisting disease handling and recovering direct and indirect losses of more than RMB 100,000. No major biosecurity disease occurred during the service period;
- Formulating site-specific immunity and care programs given the performance and test results of the pig herd, which played an important role in improving the health of the pig herd;
- Conducting biosecurity audits every month and entering the site to support production if necessary to improve production efficiency and reduce costs while improving efficiency.

Launching DBN's "Rumination Technology" application

DBN's "Rumination Technology" application is a mobile application offering pasture technical services for ruminants such as beef cattle, dairy cows, and meat sheep and used by technical service personnel in cattle and sheep breeding. The application covers cloud classrooms, product introduction, customer management, service tools, and customized products, realizing functions such as knowledge learning, customer inventory, and pasture evaluation. It is a professional, standardized, and digital technical service tool with strong practicability.



APP "Rumination Technology" application

Conveying value of the brand

To better demonstrate the value and advantages of our products, we regularly organize on-site visits for large-scale producers and partners, so that they can see firsthand how plants grow using our products. We also hold face-to-face exchanges with experts, showcase the performance of our varieties, and promote products by word of mouth.



Organizing an on-site visit and order event to promote high-quality products

In August 2023, when summer crops matured, Hunan Jinse Nonghua Seed Technology Co., Ltd. held an on-site visit and order event of "Gongliangyou Yuenongsimiao ratoon rice first harvest inspection and on-site visit and order event at 1000kg/mu farmland", and released the 2023-24 order policy. The event attracted more than 170 county and township partners and large producers.

"We are loyal customers of Jinse Nonghua's seed products, from Rongyou Huazhan to Gongliangyou Yuenongsimiao. Jinse Nonghua's products never fail us. This year Gongliangyou Yuenongsimiao blows my mind. Even after waves of storms, the variety did not fall. High temperature and drought did not affect its output either."

—Tang, a large producer in the demonstration field

"Gongliangyou Yuenongsimiao is stable. Different planting and management methods do not affect its outstanding performance. It is also resilient and has huge potential for more yield. I have great faith in the promotion of Gongliangyou Yuenongsimiao."

—Xiao, business partner at Hanshou County



Ruminant feed business supports pasture evaluation to help solve customer problems

The Company's ruminant feed business creates systematic nutrition solutions with the market, products, and customers at the core, digitizes key indicators, and brings high-quality systematic solutions to customers with professional evaluations. In 2023, the Inner Mongolia Sijichun Technical Service Center of the Company's ruminant feed business visited local meat cattle farms multiple times to make overall assessments on digestion, cow and calf health, and the on-site environment. Highly practical rectification measures were proposed to solve the problem of low productivity in all respects.

Creating high-quality products

Dayougu, a high-quality integrated brand for fresh agricultural products built by DBN Group, is committed to giving customers access to high-quality fresh agricultural products and diversified high-quality services through bio-breeding, digitalized traceability, self-operated production bases, logistics, and warehousing.

The 4th International Contest on Rice Taste Evaluation, an event at the highest level in the rice industry, is known as the "World Rice Olympics". In December 2022, Dayougu won the honorary title of National Top 100 Rice Provider in the China division. DBN Group signed a strategic cooperation agreement with the organizing committee as the honorary purchaser of the Contest. In 2023, Dayougu's Daohuaxiang 2 Wuchang Rice won the Gold Award in the finals (high-quality production area group), reflecting the recognition of Dayougu's Wuchang Rice in the industry and further promoting the brand of Wuchang Rice.



Supplier category	Supplier number	A level	B level	C level	D level
Grain raw materials	401	40	321	38	2
Proteins	313	74	206	29	4
Raw materials for processing	586	71	476	34	5
Core raw materials	73	24	41	5	3
Raw materials of animal origin	34	1	22	9	2
Packaging material	101	22	64	14	1

Selection process

- ✓ We improve the established supplier management system, strictly implement the *Supplier Management Measures* and other policies, clarify the responsibilities of each department, and realize hierarchical and differentiated management of suppliers.
- ✓ We strictly follow the supplier management process of "inspection-probation-access application-four-party signing-cooperation review", specify the compliance and safety requirements of supplied products, and strictly evaluate the qualifications of suppliers according to our policies.

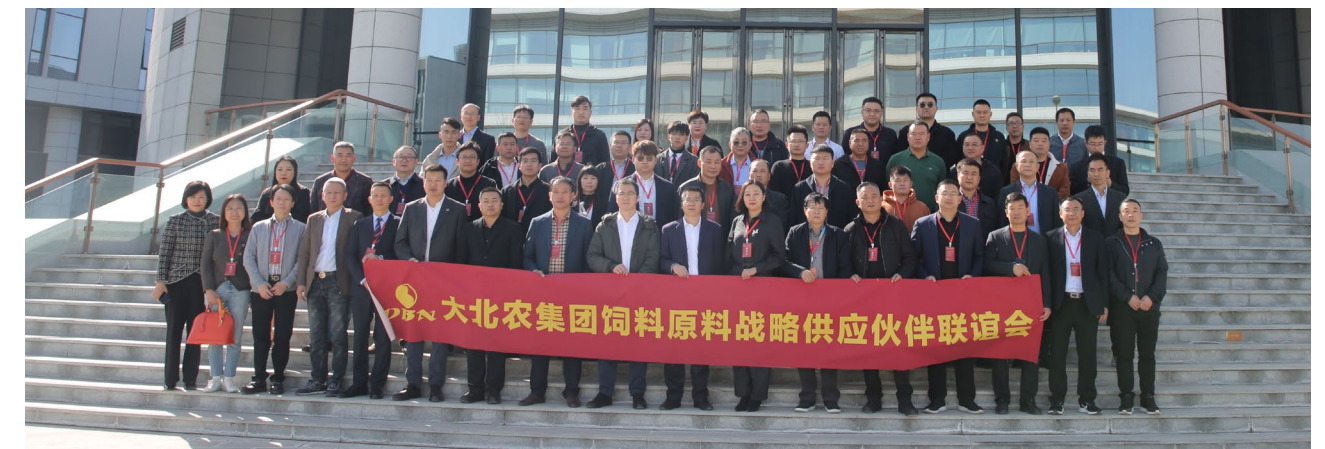
Responsible procurement

- ✓ We adhere to fair and transparent procurement and prioritize suppliers who have obtained relevant international standard certifications.
- ✓ We implement the concept of green procurement of raw materials, incorporate factors such as raw material sustainability certification into procurement, and continue to elevate the sustainability of our supply chain.

Building a Sustainable Supply Chain

DBN Group optimizes the supplier management system. We incorporate ethics, environmental protection, and social responsibility into the evaluation of suppliers, offer compliance guidance to suppliers, and implement the concept of environmental protection, labor and human rights to create a sound supply chain. By the end of 2023, the Company had cooperated with 1,508 suppliers in feed technology industry and audited all of them. We have also established a digital supply chain management system that realizes real-time management of seedlings and communication among producers, administrators, and customers, improving the transparency and efficiency of the supply chain and product quality.

In 2023, the Company conducted a supplier audit in feed technology industry involving six indicators, including quality, price, days payable outstanding, qualification, support, and service. Each indicator is evaluated following its scoring criteria and the average supplier score is calculated based on the weight value of each indicator. According to their scores, suppliers in feed technology industry are classified into five categories: excellent (A level), qualified (B level), inspected (C level), and unqualified (D level) with partnership programs formulated accordingly.



DBN Group holds a gathering of strategic suppliers of feed raw materials

Deepening University-enterprise Cooperation

As the Company advances industry-university-research cooperation, in 2023, we signed strategic cooperation agreements or upgraded cooperation agreements with North West Agriculture and Forestry University, Jiangnan University, the Chinese Society of Agricultural Engineering, the Chinese Society of Plant Nutrition and Fertilizer Science, and the Crop Science Society of China. We bring together our complementary advantages and resources, collaborate in the development of core technologies, and jointly build research and innovation platforms. We share expertise, research facilities, and technological achievements, realize the effective allocation of resources at universities and enterprises, and translate technological development into productivity, thus enabling enterprises to innovate and the industry to upgrade. As of December 2023, the company had signed strategic cooperation agreements with 30 universities.

Signed strategic cooperation agreements with **30** universities



▲ Jiangnan University sign a strategic cooperation agreement with DBN Group

The Guizhou Province "Lead Goose" training program organized by China Agricultural University visited DBN Group

In November 2023, the Guizhou Province "Lead Goose" training program organized by China Agricultural University visited DBN Phoenix International Innovation Park for exchanges. They were shown DBN Phoenix International Innovation Park and the Biotechnology Laboratory and watched a promotional video of DBN Group. During the exchange session, the Company introduced the history, development plan, and cultural concepts of DBN Group to the program participants in detail.



DBN Group's "Company Open Day" for Peking University students

In June 2023, nearly 40 undergraduates, graduates, and doctoral students from the School of Advanced Agricultural Sciences and the School of Life Sciences of Peking University visited DBN Group. They paid a visit to the Biotechnology Laboratory and the State Key Laboratory of Microbial Engineering for Feed Use in DBN Phoenix International Innovation Park and learned about DBN's corporate culture, sci-tech innovation, and the recruitment plan for the 10,000-member R&D team. The exchanges helped teachers and students of Peking University to understand the talent needs of DBN and created a talent "reservoir" for the high-quality development of DBN.



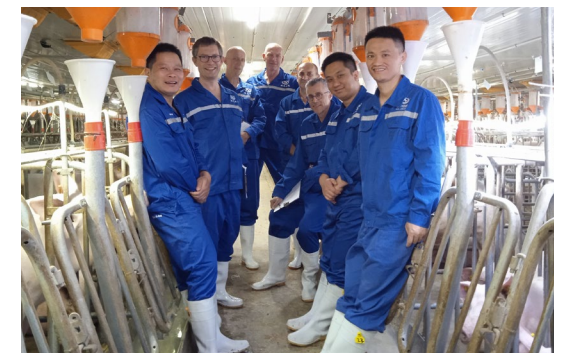
DBN Group and Shanxi Agricultural University opens a new chapter of university-enterprise cooperation

Shanxi Agricultural University and DBN Group have maintained close cooperation for a long time. In September 2017, the two sides signed a strategic cooperation agreement, and in May 2023, Dr. Shao was appointed as the Honorary President of Shanxi Agricultural University. In June 2023, more than 320 teachers and students from Shanxi Agricultural University visited DBN Phoenix International Innovation Park, where we shared our business development, elaborated on our corporate culture, and carried out discussions. Both sides agreed to strengthen cooperation and meet the needs of talent accurately for greater business achievements.

More than **320** teachers and students from Shanxi Agricultural University visited DBN Phoenix International Innovation Park

The DBN Group-WUR pig industry modernization seminar was successfully held

On October 20, 2023, a seminar on the modernization of the pig industry, aiming to accelerate the modernization of pig breeding was held by DBN Group and Wageningen University and Research (WUR) in China. Experts from WUR conducted in-depth exchanges with DBN Group on issues such as breeding, biosecurity, cost reduction and efficiency increase. Deeply aware of the changes in the pig industry in the future, DBN Group would close outdated pig farms, learn from Dutch best practices in building a complete pig breeding business ecosystem, and experiment with a pig breeding consortium to achieve the goal of the world's No.1 agtech company in 2035.



▲ The expert team of WUR visited the Shishan Pig Farm of DBN's Central and Southern Platform for field research

04

Setting up an Example in Environmental Protection

Guided by the concept of green development, DBN Group improves the environmental management system, promotes energy transition and efficient use of resources, and reduces waste at source. Based on the farming and breeding circulation model, we step up efforts to protect the ecosystem, strengthen our green competitiveness, and strive to create an eco-friendly enterprise that contributes to the harmonious coexistence between humans and nature.

- RMB **53.453** million for environmental protection investment
- **1,831,970.99** tons of CO₂e Scope 1 GHG emissions
- **271,982.73** tons of CO₂e Scope 2 GHG emissions
- **2,103,953.72** tons of CO₂e total GHG emissions
- **69,755.48** tce total energy consumption
- **51,750** tons manure residue and pollutants emission
- **311** tons medical waste emissions
- **3,450,000** tons total waste water emissions
- **40,793** tons COD reduction
- **2,718** tons reduction of ammonia nitrogen

Tighter Environmental Management



Planting and breeding combined with ecological cycle

Conventional intensive pig farming on a large scale produces a large amount of manure and sewage, thus polluting the environment while lowering efficiency. Guided by the concept of ecological pig farming in the modern age, we combine planting and breeding and utilize animal excrement. We combine ecological pig farming + comprehensive utilization of manure and waste + green planting (grain, fruit, forest) to realize recycling and slash waste and pollutants. We guarantee that our breeding model fits into the environmental capacity to protect the environment of rural areas and the comprehensive production capacity of agriculture.

In Luoxi Town and Heshi Town of Shishan Township, Taihe County, Jiangxi Province, following the requirements of the local government for building agroecological pig breeding communities, the Company has built two agroecological pig breeding industrial parks, which cover nearly 1.9 million m² of land and consist of five areas, namely production area, living area, quarantine area, resource utilization area, and agroecological area. These five areas combine with each other to form an agroecological breeding model.

The two industrial parks farm 17,500 sows, which can give birth to 350,000 piglets each year. There are also over 300,000 m² of Jinggang honey pomelo, 200,000 m² of Jinggang honey tangerine, and 200,000 m² of colorful farmed wetland. Supported by DanAg International's technology, the industrial parks focus on biosecurity control, improve the established production management rules, and advocate happy pig farming and happy life, becoming a leader in the new era of pig farming.

Given the shortcomings of environmental pollution and resource waste caused by conventional pig farming, DBN Group practices the concept of modern ecological pig farming by building an agroecological pig breeding industrial parks in Taihe, where it employs technology to combine planting and breeding, utilize animal excrement, and develop both agriculture and animal husbandry. DBN Group also cooperates with local enterprises for win-win outcomes, which are shown in higher villagers' incomes, a prosperous collective economy, efficient use of resources, and reduced waste and pollution. The industrial parks show a new path for sustainable agricultural development.

-- China Sustainability Tribune



▲ Taihe agroecological pig breeding industrial park

Strictly following China's environmental protection laws and regulations, DBN Group has improved the environmental protection management system, standardized the processes and requirements of environmental management, and carried out environmental protection training to raise environmental awareness and pursue green and low-carbon development. In 2023, the Company led the implementation of 15 environmental protection and technology upgrade projects. The development and application of the patented technology of "improved anaerobic reactor" resolve the problems of water blockage in the built manure UASB anaerobic reactor, which has been applied in three pig farm projects in East China.



Improving the environmental protection system

The Company has built a three-level management structure of "headquarters-industrial platform-subidiaries", clarified the responsibilities of departments at all levels, and fully implemented the environmental supervision and management responsibilities, punishments, and incentives. Following the formulation and release of the *Environmental Protection Management Measures* in 2022, we have also formulated a series of policies related to environmental protection systems, including the *Group's Green and Low-carbon Environmental Protection Planning*, *Farm Safe Operation Management System*, *Farm Management System of Eco-friendly Operation Records*, and *DBN Hazardous Chemicals Management Regulations*, guaranteed environmental protection planning, work safety, emergency management, pollutants emission and environmental monitoring, and enhanced the Company's green and low-carbon development and environmental governance. We continue to increase environmental protection investment to improve the environment.



Enhancing environmental protection training

We focus on heightening the environmental awareness of personnel and create manuals such as the *DBN Environmental Protection Technical Manual*, *Technical Regulations for Anaerobic Sequencing Batch Digestion Technology*, *Technical Regulations for Biogas Slurry Returning to the Field*, *Technical Regulations for Odor Collection and Disposal*, and *Standards for the Use of Environmental Protection Agents*. We also conduct regular training for environmental protection personnel to improve their professionalism. In 2023, the Group held 11 online empowerment training sessions with an audience of more than 1,000 people to help improve the environmental protection skills of front-line breeding personnel in pig farms and support their development, helping the company's industrial development. The details are as follows:



▲ Skills training for environmental protection personnel

No.1	Training topics
01	Research and demonstration of key technologies for efficient and low-carbon treatment of livestock and poultry manure
02	Pig farm manure recycling pre-treatment and anaerobic system training
03	Case of the application of water treatment chemicals and solid-liquid separation equipment
04	Activated sludge culture and maintenance of livestock and poultry breeding wastewater treatment system
05	Case and practice of delicacy management of pig farm environmental protection zones within DBN Group (Phase I: zero-emission delicacy management)
06	Case and practice of delicacy management of pig farm environmental protection zones within DBN Group (Phase II: planting and breeding combined for green development)
07	Maintenance and repair of daily operation equipment in the environmental protection zone and precautions
08	Challenges of breeding manure treatment and compost utilization technology
09	Interpretation of laws and regulations related to environmental protection of livestock and poultry breeding and precautions
10	Precautions and key points for the construction of pig farm environmental protection areas
11	Biochemical treatment parameters, technical principles, and process control

Addressing Climate Change

Frequent extreme weather conditions in recent years have made climate change a globally interested CSR issue, posing severe challenges to the development of agriculture. Guided by China's 30•60 Decarbonization Goal, the Company has revised the *DBN Group's Green and Low-Carbon Environmental Protection Development Plan*, contributed to climate change actions, and stuck to the ecology-prioritized and green development path. We continue to slash carbon intensity and support the low-carbon transition of the agricultural industry.

► Climate change risk analysis

Clearly aware of the impact of climate change on the Company's development, we identify the Company's main risks in the context of climate change referring to the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD).

Climate change risks and coping strategies

Categories	Risks	Measures
 Physical risks	Typhoon	<ul style="list-style-type: none"> The <i>DBN Emergency Management Plan</i> includes responses to abnormal weather Factories and pig farms set aside generators to deal with power interruptions
	Sudden increases in water	<ul style="list-style-type: none"> The <i>DBN Emergency Management Plan</i> includes responses to sudden increases in water Factories are located on gentle slopes to prevent landslides, cracking, subsidence, and mudslide Factories are equipped with high-standard water supply and drainage systems to cope with sudden torrential rain
	Fire	<ul style="list-style-type: none"> The <i>Operation Regulations of the Work Safety Production System</i> strictly requires that factory areas should not allow smoking The location, planning and design of new projects need to consider the risks of lightning Regular fire drills and fire equipment inspections are carried out
	Extreme heat	<ul style="list-style-type: none"> We cooperate with local meteorological departments and prepare heat relief supplies and medicines in advance We formulate emergency rescue plans for heat stroke and publicize measures for preventing heat stroke We monitor and adjust the temperature of pig houses in real-time
	Biosecurity	<ul style="list-style-type: none"> Pig farms are located more than 20 kilometers away from large cities, more than 10 kilometers away from small cities and more than 500 meters away from the nearest village There are no other pig farms or other even-hoofed ungulate farms within 1 kilometer of a pig farm There are no slaughterhouses, garbage dumps, sewage treatment plants, dead pig treatment plants, or meat and food factories within 5 kilometers of a pig farm Operating procedures are set up for the harmless treatment of sick and dead pigs and placenta
	Global warming	<ul style="list-style-type: none"> We continue to explore ways to reduce carbon emissions in animal husbandry and develop cutting-edge technologies We carry out training on energy conservation and emission reduction and heighten the awareness of carbon reduction
	Sea level rise	<ul style="list-style-type: none"> Risks of sea level rise are considered when projects are planned and designed
	Less water	<ul style="list-style-type: none"> We continue to develop sewage treatment and recycling and build on-site water treatment systems We roll out water-saving activities for all employees
	Biodiversity loss	<ul style="list-style-type: none"> Pig farms are not allowed to be set up in water conservation areas to protect biodiversity
	Less soil fertility	<ul style="list-style-type: none"> We develop high-quality seeds that have stronger adaptability We grow green manure plants, increase organic matter and apply biogas liquid and manure to improve soil quality
 Transition risks	Policy risks	<ul style="list-style-type: none"> We continuously pay attention to relevant environmental protection requirements
	Technological risks	<ul style="list-style-type: none"> We increase R&D input of innovative environmental protection technologies We build a numerical environmental management system
	Reputational risks	<ul style="list-style-type: none"> We disclose our environmental efforts and apply more clean energy according to the relevant rules

The impact of human activities on the global climate worsens the climate crisis and raises the global average temperature at an unprecedented rate. The likelihood of limiting global warming to well below 1.5 degrees Celsius compared to pre-industrial levels is rapidly shrinking, and the risk of humanity crossing an irreversible tipping point is mounting. To better respond to the potential risks and opportunities of climate change and answer the call of the state to save energy and reduce emissions, the Company will complete the following tasks:

- 

Carrying out greenhouse gas inventory of Beijing Dabeinong Technology Group Co., Ltd. to accurately understand our GHG emission status
- 

Based on the results of the inventory, formulating a voluntary GHG reduction plan
- 

Promoting GHG emission reduction measures and continuous improvement activities to reduce or mitigate the environmental and climate impacts of GHG emissions on global warming
- 

Advocating the conservation of energy and resources, improving technology and equipment, and elevating equipment and technology to the world-class level
- 

Using alternative clean energy sources wherever possible
- 

Increasing the proportion of renewable energy use
- 

Establishing a carbon emission management system and energy management system and operating them continuously
- 

Complying with laws and regulations, customer requirements, protecting the environment and ecology, putting people first, and achieving sustainable development

Greenhouse gas management

Given the trend of low consumption, low emission, and high efficiency, DBN Group upgrades the animal husbandry industry. We attach great importance to the R&D of efficient and green technology, standardize technical standards of green and low-carbon farming, and sharpen our core competitiveness in green and low-carbon development, striking a balance among ecological, social, and economic benefits.



Based on the environmental concept of sustainable development and the obligation of fulfilling corporate social responsibility, the Company is committed to the inventory and control of GHG emissions to mitigate GHG-induced global warming.

Carbon inventory boundary

Scope	Category	Emission source	Activity
Scope 1 (Direct GHG Emissions)	Emissions from stationary combustion	Emissions from burning fossil energy	Burning natural gas
			Burning liquefied petroleum gas
			Burning diesel
	Emissions from mobile combustion	Emissions from burning fossil energy	Gasoline burning in Company-owned vehicles
			Burning diesel
	Direct fugitive emissions from refrigeration, air conditioning, fire suppression, and industrial gases	Emissions from CO ₂ fire extinguishers	Emissions from CO ₂ fire extinguisher use
		R404 Refrigerant	R404 Refrigerant
		Septic tank overflow	Septic tank overflow
		Anaerobic treatment of industrial wastewater	The treatment of industrial wastewater
		Nitrous oxide emissions from agricultural soils	Rice, corn, and soybean cultivation - (Zone I)
			Rice, corn, and soybean cultivation - (Zone III)
			Rice, corn, and soybean cultivation - (Zone IV)
			Rice, corn, and soybean cultivation - (Zone V)
			Rice, corn, and soybean cultivation - (Zone VI)
		Emissions from rice cultivation	Rice cultivation - single cropping rice - central and southern region
	Emissions from urea application	Rice, corn, and soybean cultivation	
	Emissions from enteric fermentation in animals	Large-scale pig breeding	
Animal manure management	Large-scale pig breeding in Northern China		
	Large-scale pig breeding in Northeastern China		
	Large-scale pig breeding in Eastern China		
	Large-scale pig breeding in Central and Southern China		
	Large-scale pig breeding in Southwestern China		
	Large-scale pig breeding in Northwestern China		
Scope 2 (Indirect GHG Emissions)	Emissions from purchased electricity, steam, heating, or other fossil fuel-derived energy sources	Purchased electricity emissions	Power purchased from State Grid
		Indirect emissions from purchased heating	Purchased heating

Carbon verification report

The inventory covers all the facilities that produce GHG emissions and removals owned by Beijing Dabeinong Technology Group Co., Ltd. and its subsidiaries in various sectors. The inventory boundary includes direct (Scope 1) and indirect (Scope 2) GHG emission sources, and the types of greenhouse gases involved in the inventory are carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and hydrofluorocarbons (HFCs). The Company hires a third-party organization to conduct an ISO14064-1 GHG emission verification on the inventory results and then issues a carbon verification report.

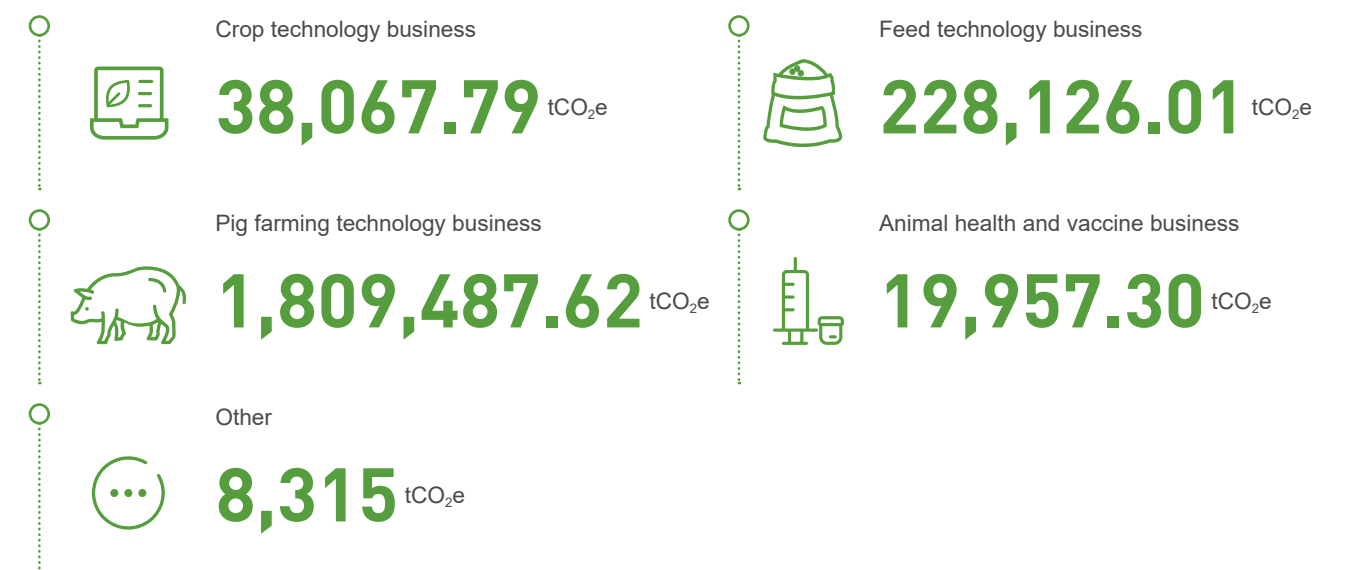


2022-2023 Carbon emission data

Indicators	2023	2022
Scope 1 emissions (ton of CO ₂ e)	1,831,970.99	87,978.99
Scope 2 emissions (ton of CO ₂ e)	271,982.73	264,557.63
Total GHG emissions (ton of CO ₂ e)	2,103,953.72	352,536.62

Note: The CO₂ equivalent emissions in 2023 increased significantly compared with the level in 2022 disclosed in the company's 2022 annual sustainability report (ESG report), due to the inclusion of CO₂ emissions generated by large-scale farming into the carbon verification.

2023 Emissions by business segment



➤ Enhancing energy management

The Company manages factory energy conservation by adopting energy-saving equipment that lowers energy consumption and improves energy efficiency

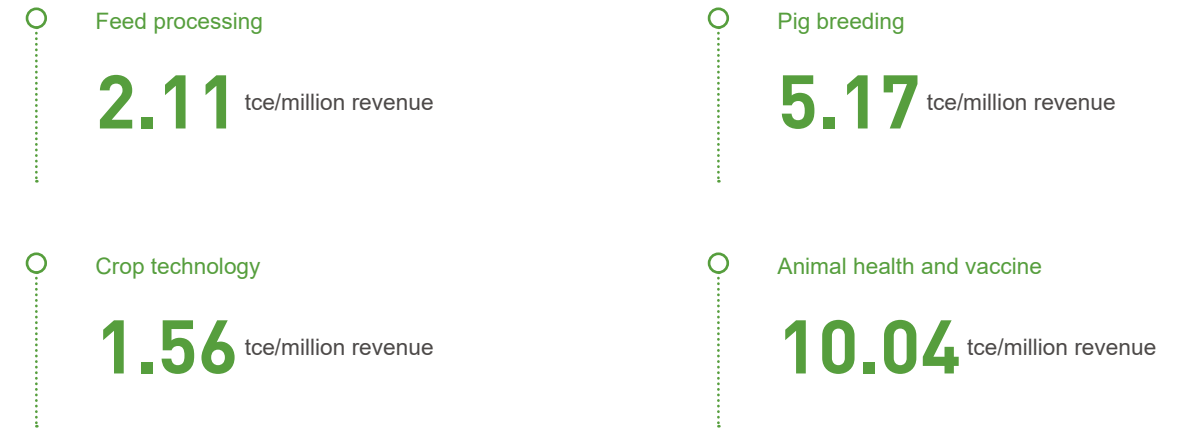
- Axial fans of the sow farm are replaced with electronically commutated (EC) fans, which saves 1.43 kWh of electricity per piglet.
- Through the air-to-air heat exchanger, air flowing into the pig house exchanges heat with indoor air, thereby reducing the temperature differences. Precise ventilation in winter reduces air exchange and energy waste. In northern China, this can save energy up to 42kg of coal per fat pig.



Energy consumption data in 2023

Indicators	2023
Diesel (kg)	1,212,735.78
Gasoline (kg)	249,749.62
Natural gas (m ³)	18,823,899.55
Liquefied petroleum gas(kg)	31,788
Electricity (kwh)	345,870,271
Heat (GJ)	679,390.20
Total energy consumption (tce)	69,755.48
Energy intensity (tce/million revenue)	2.09

Energy intensity by business in 2023



Water Resources Management

DBN Group pays attention to the use of water resources. We formulate the *DBN Pig Factory Water Use Standard* to guide water use during production, save water at source, and reduce the water use of pig farms by combining management and technology upgrade for efficient water consumption.

Technology

We improve the feeding and water drinking of pig herds, reduce waste in the water drinking process, adopt pressure washing, and adjust the cleaning process to decrease water used for cleaning and disinfection.

Management

We install smart water meters and send real-time water use data from pig factories to the network to facilitate water management and assessment. We prepare water use policies such as *Pig Farm Water Standards* and *Production Area Water Standards*. Water consumption and sewage are incorporated into the performance evaluations of breeding employees and factory directors with corresponding incentives and punishments.

Pig factory water use standard

Months	June-September	October-May
Total water consumption standard (L/head/day)	40	35

Water standards for production areas

Category	Standard water amount
Gestating sow (L/head/day)	50
Mating sow (L/head/day)	25
Spare sow (L/head/day)	12
Boar (L/head/day)	40
Piglet (L/head/day)	5
Fattening pig (L/head/day)	15
Pressure washing (m³)	8
Water consumption for personnel in the production area (L/person/day)	60
Water for personnel in the living area (L/person/day)	20
Canteen water use (L/person/day)	20

Waste Management

Complying with relevant laws and regulations, we strictly control the generation and discharge of pollutants to reduce the impact on the surrounding environment.

➤ Solid waste management

- Feces and sludge** → Organic fertilizers are made by aerobic fermentation for crops cultivated in the planting and breeding cycle.
- Sick and dead pigs** → Strictly following the *Technical Specifications for the Harmless Treatment of Sick and Dead Animals*, we ensure harmless treatments to strengthen biosecurity protection and eliminate environmental pollution.
- Medical waste** → In strict accordance with the requirements of the *Standards of Controlling Pollution in Medical Waste Handling*, we establish a medical waste storage and transfer mechanism and entrust qualified third parties for harmless treatment.
- Domestic garbage** → Following the requirements of the local sanitation department, we transport garbage to the designated place for centralized handling.

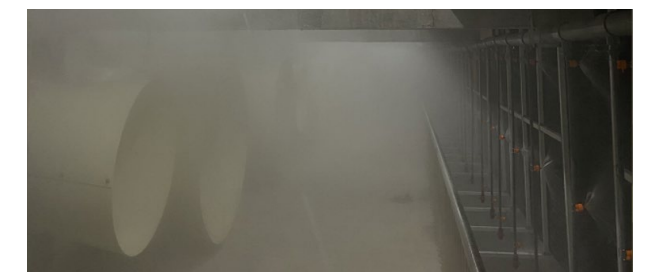


▲ Comprehensive utilization of manure returning to the field

➤ Waste gas management

The aquafeed production plant adopts "single-point collection + pretreatment system (high-precision filter pulse dust removal + core purification system (water spraying))" as the core process to treat waste gas, balancing the effect, operating costs, and safety.

- We promote new technologies such as the fresh air ventilation system, intelligent environmental control, and remote ventilation control to achieve precise ventilation and reduce waste gas at source.
- We upgrade the odor removal technology of pig farms, adopt the two-stage deodorization process of "water spray + atomized mist deodorization", with a dust removal (PM10, PM2.5) rate of ≥ 60%, an ammonia removal rate of ≥70%, and an odor concentration lower than 20 dimensionless, which meets relevant emission standards.



▲ Water spray + atomized mist deodorization

Wastewater management

The Company's pig farming business adheres to the principle of "reduction, harmless treatment, and recycling".



Source

Reducing wastewater generated through technology upgrade and water management.



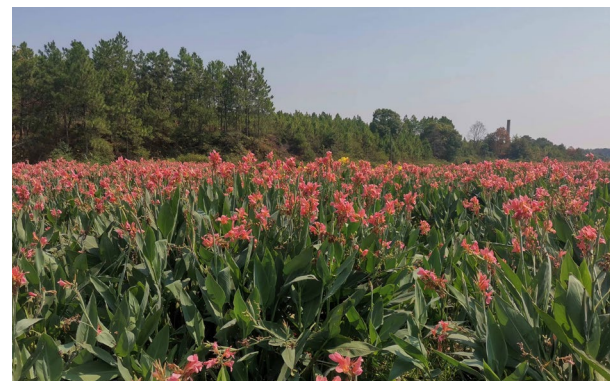
Process

Strictly implementing the sewage treatment model of "separating rain and sewage, separating drinking water and sewage, separating solid and liquid waste, and ecological purification" to reduce the concentration of pollutants.



Terminal

For the comprehensive utilization of purified wastewater, the wastewater is used as biogas slurry for agricultural planting after harmless treatment, or as irrigation water or urban miscellaneous water after advanced treatment, or for farmland irrigation or landscaping. The self-developed efficient breeding wastewater treatment agent can reduce COD by 50%, ammonia nitrogen by 70% in wastewater, as well as cost of water treatment agent by RMB 0.5~1 per ton, improve product safety and the quality of discharged water, and effectively lower breeding costs.



▲ The standardized treatment model of "biochemical treatment + constructed wetland"

The company's pig farming business pollutants discharged in 2023

Category	Amount
Manure residue and sludge (ton)	51,750
Medical waste (ton)	311
Total wastewater (ton)	345
COD reduction (ton)	40,793
Reduction of ammonia nitrogen (ton)	2,718

Biodiversity Conservation

Prioritizing biodiversity conservation, we strengthen and innovate biodiversity conservation measures and make efforts to build a beautiful community where all things thrive together.



Establishing a germplasm resource database to protect biodiversity

Germplasm resources underpin the sustainable development of human society and the database of germplasm resources is seen as the seed bank that stores the genetic code of millions of species on the earth. Such databases conserve biodiversity, safeguard food security, and provide an important platform for the development and utilization of biological resources. DBN emphasizes the protection and research of seeds. Over years of efforts, we have accumulated abundant germplasm resources, established medium-term and long-term germplasm resource databases nationwide, and contributed to the sci-tech self-reliance and self-strengthening of the seed industry and independent and controllable seed sources.

In 2023, the Company built a fully intelligent, standardized, visualized, paperless, and traceable medium and long-term germplasm resource database following international standards, which could hold 70,000 germplasm resources. The database is equipped with modern facilities such as reception rooms, testing rooms, packaging rooms, and monitoring rooms. We formulate strict entry and exit management and safety management systems and numbering rules to standardize and digitalize the germplasm resources preservation, reproduction, renewal, management, and utilization. The database not only helps protect rare and endangered crop varieties, but also provides valuable genetic materials for the Company's seed breeding projects.



Contributing to the whole pig business ecosystem with Yunnan characteristic

Yunnan DBN participated in the "Yunnan Province 2023 Major Technology Special Plan" Yunnan local pig breed innovation and commercialization project. The company used three distinctive local pig breeds (large Diqing Tibetan pig, Zhaotong pig, large Diannan small-eared pig) to build an integrated pig breeding, testing, reproduction technology system for efficient utilization, which met the important task of developing a self-reliant and self-improved pig breeding industry and local high-quality breeding pigs.

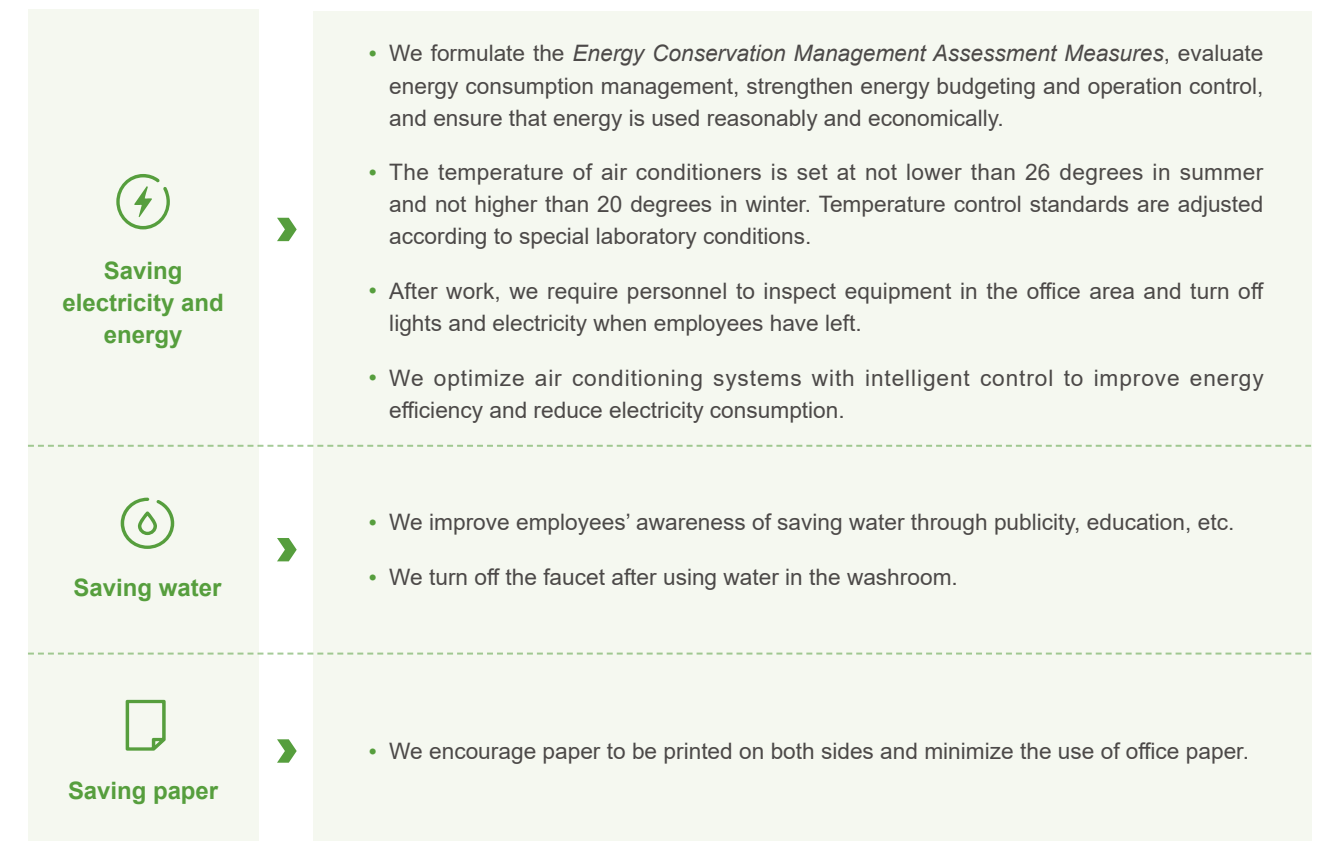
Animal Welfare

Advocating the concept of animal welfare, DBN upholds science-based animal farming and provides animals with a comfortable environment, adequate nutrition and care, etc. We improve biosecurity prevention and treatment, reduce the pain and stress response of animals, and improve their quality of life and health. These efforts aim to promote the sustainable development of the breeding industry featuring high output, product safety, resource conservation, and eco-friendliness.



Green Office

We promote green offices by encouraging employees to save resources in their work and daily life, cut down waste and pollution, and jointly create a green and comfortable workplace.



05

Building a Happy Family



Employees are a key element in DBN's development. We always advocate benevolence as the top priority, safeguard employee rights, and optimize human resource allocation and talent development mechanisms to promote the common growth of employees and the Company. We also focus on occupational health management and create a workplace conducive to physical and mental health, striving to enhance employees' sense of happiness. Meanwhile, to realize the harmonious coexistence with communities, we actively engage in charities and carry out diverse charity projects to help social progress and better life.

- 18,465 employees in total
- 4,567 female employees
- 100% labor contract signing rate
- 100% social insurance coverage rate
- 9.32% employee promotion rate
- RMB 19,005,000 invested in training in 2023
- More than 270,000 training hours in total
- 147,000 trainees covered
- 12 health and safety training
- 20 full-time safety personnel
- RMB 160,000 invested in safety facility improvement
- 459 female employees entitled to maternity leave
- 203 employees have paternity leave
- 140 children of employees won the DBN Scholarship for College Entrance Examination and Unified National Graduate Entrance Examination and RMB 406,000 scholarship granted
- RMB 2.56 million DBN Support Fund to employees
- RMB 1.138 million DBN scholarships to 619 students
- RMB 250,000 DBN fellowship to 201 teachers

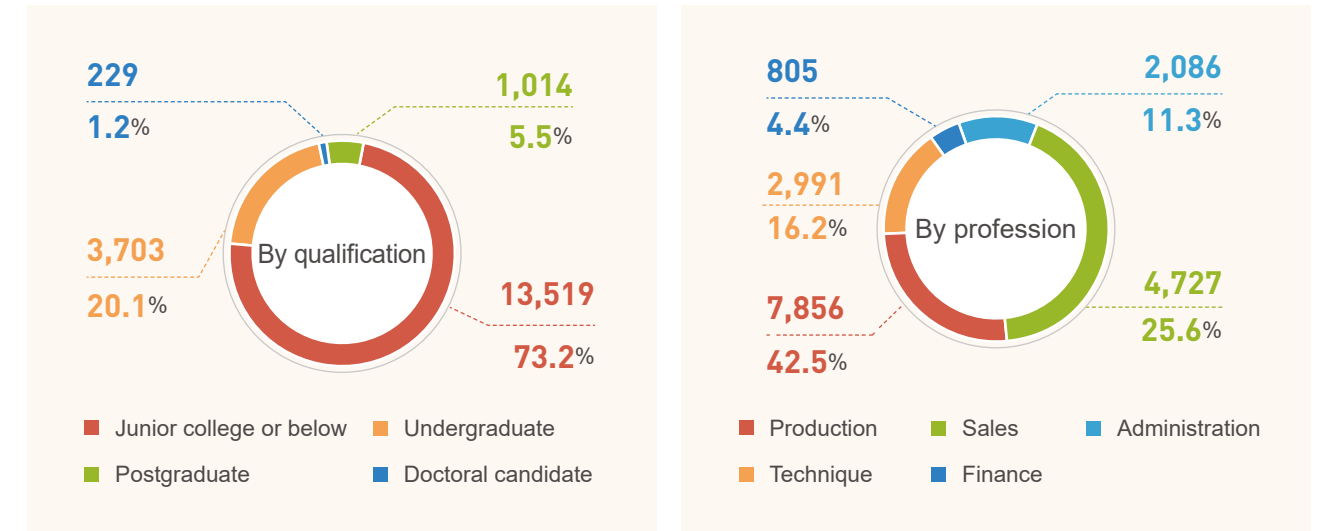
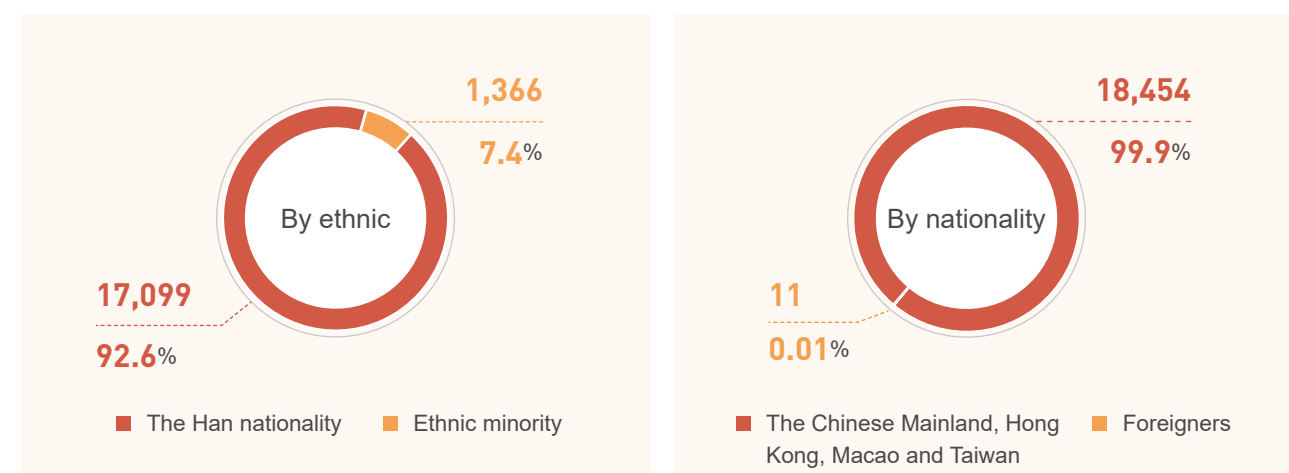
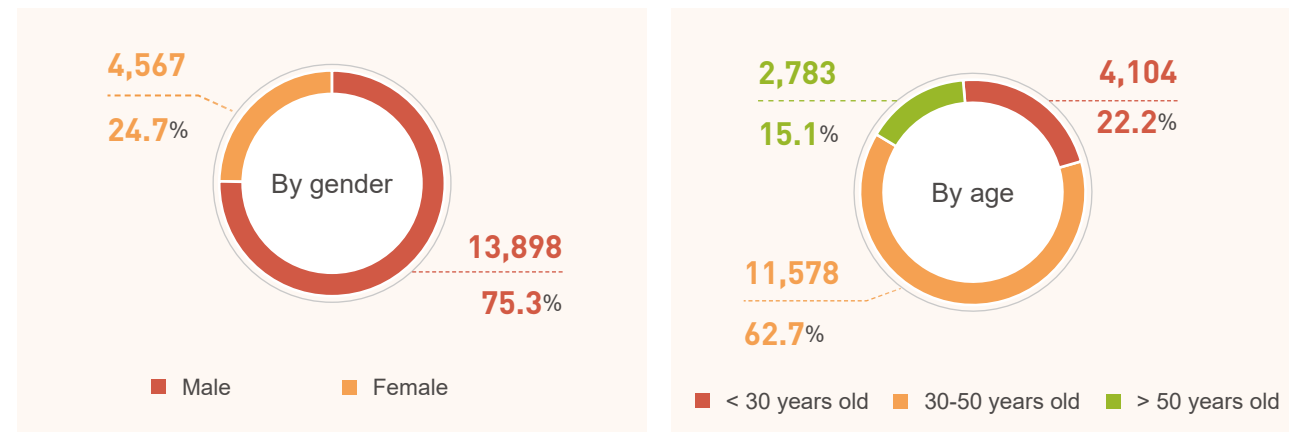
Protection of Rights and Interests

In strict accordance with laws and regulations, DBN establishes a sound labor security system and is committed to creating a positive and healthy workplace for employees. We improve a series of human resource management policies, including talent recruitment, assessment, training, promotion, and incentive, and enhance the management standards in recruitment, promotion, compensation, benefits, and working hours. The legal rights of employees are highly appreciated and safeguarded by paying key attention to and implementing policies in aspects like welfare provision, paid vacation, physical examination, and housing and household services, to improve talent retention rates.

Employee diversity

The Company adheres to employee diversity, equal opportunities, and equal and non-discriminatory employment policies. We fairly and impartially treat employees of different nationalities, ages, races, genders, political affiliations, religious beliefs, and cultural backgrounds, and strictly identify, evaluate, and review potential risks in human rights. The legal rights of employees are practically ensured by the prohibition of child and forced labor, equal employment of employees from ethnic minority groups, and the guarantee of female employees for equal compensation, benefits, and career development opportunities.

The Company has established a harmonious labor relationship with its employees according to laws, with the labor contract signing rate of 100% and the social insurance coverage rate of 100%. As of the end of 2023, there were 18,465 employees in total.



Compensation and benefits

We establish a comprehensive compensation and benefit system and pay the full amount of endowment insurance, medical insurance, unemployment insurance, employment injury insurance, maternity insurance, and housing provident fund for employees. We provide employees with not only various paid vacations, including but not limited to statutory holidays, sick leave, marriage leave, funeral leave, maternity leave, annual leave, and employment injury leave, but also benefits such as labor security supplies, working meals, housing subsidies, and family visit leave. Employees receive sufficient care in their work and life.

Democratic management

The Company has established a sound democratic management system and a workers' congress system. Moreover, the trade union, an employee home, and a platform for employee complaints and suggestions enable us to track employees' voices on their posts, colleagues, leaders, and DBN's development and understand their difficulties. We protect employees' rights to know, participate, express and supervise, and effectively solve their urgent and thorny problems.

Convening the third session of the Third Workers' Congress Conference

On December 30, 2023, DBN held its third session of the Third Workers' Congress Conference. In deliberated issues, the 2023 version of the *Employee Handbook* was unanimously voted to be approved by all representatives, which will further consolidate the corporate democratic management system based on workers' congress conferences. This session was held both online and offline and active participants from various platforms and departments of the Company's headquarters.



▲ DBN's third session of the Third Workers' Congress Conference

Common Progress

Guided by the philosophy that “employees are the key element for DBN’s development”. While implementing the talent strategy of “calling on talents with mission, attracting talents with cause, retaining talents with equity options and unifying talents with culture” in 2023, DBN continuously optimized the talent structure and formed a sci-tech and service talent echelon characterized by internal and external integration, top-to-down interaction and continuous innovation. Employees are provided with the most meaningful and promising stage to fully display their talents and strive for the first in their careers.

DBN advocates the work vision, “integrating into DBN and pursuing excellence”, the vision of success, “creating value and benefitting society”, and the life vision, “enjoying a happy and perfect life”, with an establishment of three channels for talent promotion - scientific research, management and manufacturing. Scientific research personnel grow from primary-level personnel to technical leaders and finally become experts in DBN’s R&D field; the management and manufacturing personnel are promoted from primary-level personnel to middle-level leaders and eventually grow into leaders of management and manufacturing systems. A complete management training system has also been established for new hires to reserve expert and leadership talents. A large number of outstanding young employees are valued and provided with a larger entrepreneurial platform, mechanism guarantee and logistical support. In 2023, 9.32% of employees were promoted, including 29.52% for management positions, and 58.54% for business positions.

Supporting employees to ensure common progress

- We develop a comprehensive employee growth system to provide a broad development platform for the long-term development of employees. A series of training or meetings have been held, including training camps for new employees, middle-level leaders, and executives, general manager training courses, and special training courses for presidents. We also organize different skills training activities, including professional qualification exam training, skill competitions, and professional competitions for different system personnel.
- We carry out comprehensive professional skills training to improve the professional level and skills of employees, including entrepreneurship talent system training, financial system training camps, technical systems, and manufacturing system training sessions.
- We encourage employees to participate in academic and continuing education, and actively promote their further education and professional competence improvement. Talent cultivation programs are conducted with well-known domestic universities, such as MBA programs at Tsinghua University and Renmin University of China, joint master’s and doctoral training programs at China Agricultural University, and joint training programs for high-level technical talents in agricultural universities.

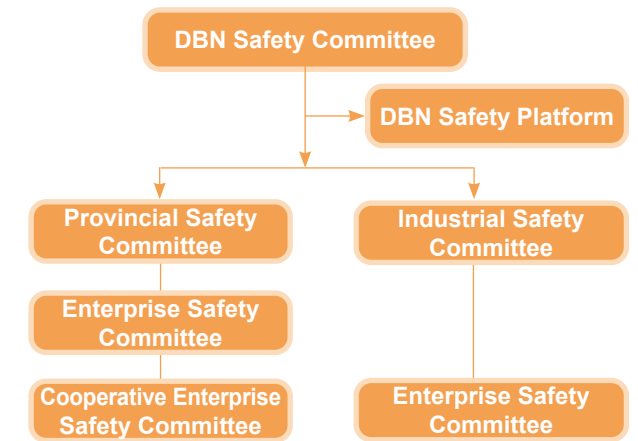


Occupational Health and Safety

DBN commits to the corporate culture of “safety comes first” and adheres to the principle of “putting life first and ensuring safe development”. We continuously improve our safety management system. We strictly abide by laws and regulations on occupational health and work safety, implement effective occupational health and work safety management, and continuously improve occupational health and work safety management., to ensure the health and well-being of employees and communities where projects operate.

Work safety management

DBN implements the safety policy of “safety and people first, prevention foremost, comprehensive management, standardized operation, and continuous improvement” to effectively strengthen the construction of work safety mechanisms and the main responsibility of corporate work safety. We also set up the safety goal of “zero major work safety accidents”, implement safety policies and the dual prevention mechanism, and strictly inspect the “two illegals and one violation” (illegal operation, illegal command and violation of labor disciplines), to develop ourselves on a stable and liable basis. The company has set up 20 full-time safety personnel.



DBN safety organization structure

Occupational health management

The Company further promotes health management for all employees to ensure their health and safety. We strictly abide by related laws and regulations and establish a sound occupational health and safety management system. Work Safety Committee is set up to coordinate and manage the work about employee health and work safety, establish employee occupational health files, organize regular occupational health examinations for employees, and provide labor protection supplies, carry out safety education and law training to improve employees’ awareness and ability of occupational health protection, and be committed to creating a safe and healthy workplace for employees.

Risk prevention and control management

To reduce manufacturing accidents, DBN has established a regular risk identification mechanism, and a post risk notification card to clarify the risk control standards of each post and conduct regular safety hazard inspections, preventing potential accidents from the source. Meanwhile, based on our emergency management organization, we have formulated an emergency plan for work safety accidents and carried out emergency rescue team training and emergency plan drills to make every effort to promote the implementation of DBN’s safety policies.

➤ Safety culture cultivation

DBN develops annual training plans and regularly launches safety training and lectures to raise the safety responsibility awareness of employees. In 2023, to strengthen the safety responsibility awareness of all employees, standardize safety behaviors and improve safety skills, DBN carried out a series of activities in Work Safety Month campaign with the theme of “everyone caring for safety and can meet emergencies”, including safety hazard investigations, fire safety, first aid safety, emergency drills, and the promotion and implementation of the *Work Safety Law*. These diverse activities strengthen the safety education of employees and urge them to learn emergency knowledge. By the end of 2023, a total of 12 times employee health and safety training sessions were held, with 60,000 employee participants in 24 training hours.

🔍 Conducting Work Safety Month campaign

Strictly implementing the requirements of the national “Work Safety Month”, we focused on work safety and simultaneously implemented safety tasks in four aspects: personnel, quality, property, and business. After kicking off the work safety month, we investigated hidden risks and hazards, organized skill training, and carried out immersive safety education, which heightened the safety awareness and skills of employees. Through these activities, we raised the safety awareness and responsibility of all employees and consolidated the foundation of work safety. A total of 1,144 potential safety hazards were identified and rectified during the work safety month, involving 184 production units, or 96.3% of the total.



Care and Concern

DBN cultivates a harmonious culture of the Company caring for its employees and employees loving their posts and the Company, and advocates for a simple, natural, real, and healthy lifestyle. We continuously improve working, living, learning, and cultural environments to allow employees to work and live comfortably, promoting harmonious labor relations in the new era.

➤ Life benefits

We actively carry out various care activities and entertainment activities such as Spring Festival Gala, Mid-Autumn Festival Gala, outings, sports competitions, chorus, and dance clubs. We are committed to providing comprehensive benefits and diverse entertainment, enhancing communication and interaction among colleagues, and further improving employees' sense of happiness and belonging.



▲ International Children's Day activity



▲ Chorus activity

🔍 DBN's “Phoenix mailbox” for cultural exchange

DBN has established a “Phoenix mailbox” to provide employees with an emotional communication platform for “mutual learning, listening, and doubt resolving” as a communication bridge.

“High mountains have their paths and deep waters have their ferries. The term ‘youth’ should be opposed to mediocrity! In the promising new era and heroic DBN, youth should bear the pursuit of excellence into their minds and attain to the broad and great while addressing the delicate and minute.”

- @Lifearmist

“In the past decade or so in DBN, I have become increasingly fond of a saying: ‘Where there’s a will, there’s a way!’ Difficulties are like paper tigers and will disappear when I am about to fight them hard. Excellent people have the same great advantage that they persevere in unfavorable and difficult situations.”

- @Hongyan

➤ Care for female employees

With full attention to the wisdom and strength of women in the new era, we care for female employees, establish a women’s federation, and hold a series of exciting activities, including the “DIY Floral Goddess”, Heroines and March 8th Festival for female employees, to recognize and encourage their outstanding performance in the workplaces and families.

🔍 Establishing Women’s Federation to empower the female

In March 2023, DBN held a Women’s Day celebration conference, established a Women’s Federation, and released the “Three Good and Nine Disciplines” for female entrepreneurs in DBN to inspire the power of female entrepreneurs as role models and recognize outstanding ones who have made excellent achievements and contributions.



▲ DIY Floral Goddess activity on Women's Day

The Company has 4,504 female employees, accounting for 24.4%, and strictly complies with national legal requirements to provide them with maternity leave, paternity leave, and parental leave. In 2023, 459 female employees are entitled to maternity leave and 203 to paternity leave.



▲ DBN's mother-and-baby room

➤ Special benefits

DBN provides special benefits and care for employees, including the DBN Scholarship for College Entrance Examination and Unified National Graduate Entrance Examination for employees' children, DBN Love Fund, family summer camps, DBN Childbirth Encouragement Award, and benefits on DBN Memorial Day. We solve practical problems for employees in diversified forms through multiple channels from different perspectives to improve employee well-being.

📄 Passing love to warming you and me

DBN Love Fund takes the concept of "helping and delivering humanistic care" to advocate that everyone is a contributor to the fund and also a beneficiary of the fund. It calls to deliver a non-public fund to DBN employees with great difficulties. Up to now, the Support Fund has benefited 2,936 employees in several projects, including major disease assistance, assistance for the children of deceased employees, employees in need or in poor physical condition, and Spring Festival care, reaching RMB 14.288 million. In 2023, it was RMB 2.56 million.

📄 Holding a collective wedding to build a warm enterprise

On September 28, 2023, DBN held a collective wedding, where 30 couples from six major industries got married under the witness and blessings of DBN's employees. The Company bore all the costs of the wedding and provided a wedding bonus of RMB 6,000 to each newlywed couple, aiming to guide employees to cultivate a culture of building a good family, developing good family education, and promoting good family traditions, and to consolidate strong positive energy for corporate development, harmony, and stability.



▲ On site of the collective wedding in DBN

📄 Creating a better tomorrow for both DBN and employees through care and motivation

DBN Scholarship for College Entrance Examination and Unified National Graduate Entrance Examination is a public charity award established by the Company to encourage the children of employees who obtain excellent results in the college entrance examination and unified national graduate entrance examination. We support them in various ways and hope they will do better in their future learning and life, which shows our care for employees and the growth of their children. Up to now, the scholarship has been held for ten sessions, with a total of over RMB 4.87 million distributed and 1,719 outstanding students awarded.

Caring for the growth of employees' children and lighting their future paths

DBN has established this scholarship since 2012. The scholarship not only encourages employees' children to pursue academic excellence but conveys a spirit of optimism and hard work. In 2023, a total of 140 children of employees and DBN's partners were awarded this scholarship, including 72 regular undergraduates, 39 undergraduates whose universities in Project 211 and 985, 24 postgraduates, and 5 doctoral candidates, with a total reward amount of RMB 406,000.

Motivating young people to jointly build an agricultural power

In recent years, the proportion of children of employees admitted to key universities has been increasing year by year as well as that admitted to agricultural universities has significantly increased. The DBN Scholarship for College Entrance Examination and Unified National Graduate Entrance Examination is inspiring more young people to pay attention to, serve, and devote themselves to agriculture, making contributions to accelerating the construction of an agricultural power.



“It is a great honor to receive the scholarship from DBN. I am grateful to my parents and DBN for their strong support. This is not only an encouragement for me, but also an urge for me. In the future, encouraged by DBN, I will continue to work hard and strive to become a youth making positive contributions to my family, society, and even the country in the new era.”

- Cheng, an employee's child ”

“I sincerely thank DBN for its educational assistance and provision of my father's post to support my entire family. I wish DBN will develop better and better and realize its strategic goals earlier.”

- Zhao, an employee's child ”

“Hard work pays off. This year, I am fortunate enough to continue my studies as a postgraduate at my university. In my future studies, life, and even work, I will always remember the spiritual and practical incentives brought by the DBN culture. I will be grateful to DBN forever! Our future requires more enterprises like DBN to work together with innovative thinking and technological strength to promote the modernization of agriculture.”

- Xu, an employee's child ”

Charity

Bravely shouldering social responsibility, with a spirit that “when a disaster strikes in one location, help comes from all quarters”, DBN supports biosecurity prevention and control, provides rescue for major disasters, and promotes the rapid recovery of agriculture, animal husbandry, and fishery production after disasters. The Company uses its dedication to interpret the social responsibility of standing together through thick and thin.



Assisting the resumption of production in the Beijing-Tianjin-Hebei region

In August 2023, affected by Typhoon Doksuri, extreme precipitation occurred in Beijing, Tianjin, Hebei, and other areas, causing floods and geological disasters and having a serious impact on agricultural, animal husbandry, and fishery production. DBN immediately established a working group to participate in flood control and post-disaster recovery and development of agriculture, animal husbandry, and fishery in the Beijing-Tianjin-Hebei region. We also actively contacted relevant agricultural government departments and disaster-affected units. We worked together with compatriots in disaster areas to overcome difficulties.



中共北京市房山区委办公室

感谢信

大北农业科技集团股份有限公司：
7月29日至8月2日，受台风“杜苏芮”影响，房山区遭遇强降雨引发的山洪泥石流等自然灾害，全区基础设施损毁严重，130万人民的生产生活受到严重影响。
洪水无情，人间有爱。在抢险救灾的关键时刻，贵单位给予我们无私的帮助，给被困群众带来新的希望，用实际行动展现了“一方有难、八方支援”的大爱情怀，用奉献诠释了守望相助、共克时艰的社会责任和担当。在此，我们代表130万房山人民向参与支持房山区抗洪救灾恢复重建的每一位爱心人士，致以最高的敬意和最衷心的感谢！
经历过风雨，才能见彩虹。全区上下学习贯彻党中央、国务院决策部署和市委、市政府工作要求，按照“一年基本恢复、三年全面提升、长远高质量发展”的工作目标全力推进各项灾后重建工作。我们坚信，在你们的强力驰援和无私帮助下，坚强勇敢的房山人民一定能够走出困境，建设一个更加美好的新家园！
为回馈社会各界的大力援助，房山区决定，开展“大美房山

贡献有你”感恩活动，参与支持我区抗洪救灾和灾后重建工作的社会各界人士可免门票游览区内A级景区，具体活动详情，将在“大美房山”公众号进行发布说明，欢迎您关注、了解、参与。房山区将以真挚的情感、热忱的服务，欢迎您的到来。
最后，祝平安喜乐、万事顺遂！大美房山感谢您！大美房山欢迎您！



▲ DBN receives thank-you letters from the Fangshan District Committee and Government

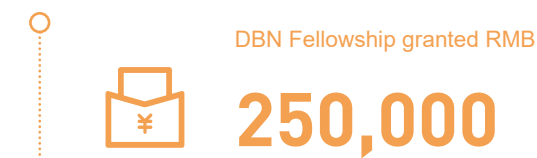
Serving Society

DBN actively participates in social public charity activities and practices, establishes DBN charitable fund, and spreads warmth and love, contributing to the promotion of industry transformation, local economic development, and people's well-being.



Promoting fair education and supporting agricultural development

DBN Fellowship and Scholarship are established with funding from Beijing Dabeinong Technology Group Co., Ltd., aiming to sponsor outstanding agriculture-majored students from poor families with excellent character and outstanding academic performance to complete their studies and to support and reward excellent teachers of agricultural colleges and universities respectively. In 2023, RMB 1,138 thousands of the DBN Scholarship and RMB 250 thousands of the DBN Fellowship were respectively awarded to 619 students from 28 domestic universities and 201 teachers from 12 domestic universities. Chinese agriculture majors have boosted their confidence to study, love, and devote themselves to agricultural development.



Dedicating to the rural vitalization in education and caring for children's growth

DBN has long been paying attention to education issues in areas that have been lifted out of poverty, and assisting in the development of education in underdeveloped areas. The “Soaring Love” public charity project was launched in October 2021 to facilitate the construction of DBN Vitalization Primary School in old revolutionary base areas that are along the paths of the Long March. Since the implementation of the project, four educational aid construction projects of DBN Vitalization Primary School have been completed, and a total of about 67,300 people have donated to the “Soaring Love” public charity project. This fully reflects that DBN integrates more social love and resources to greatly support the education career and add strength to the revitalization and development of old revolutionary base areas.

06

Continuous Optimization of Corporate Governance

In strict accordance with the requirements of relevant national laws and regulations, DBN improves the quality and efficiency of various business operations to increase its competitiveness and realize the sustainable development of itself, society, and the environment.

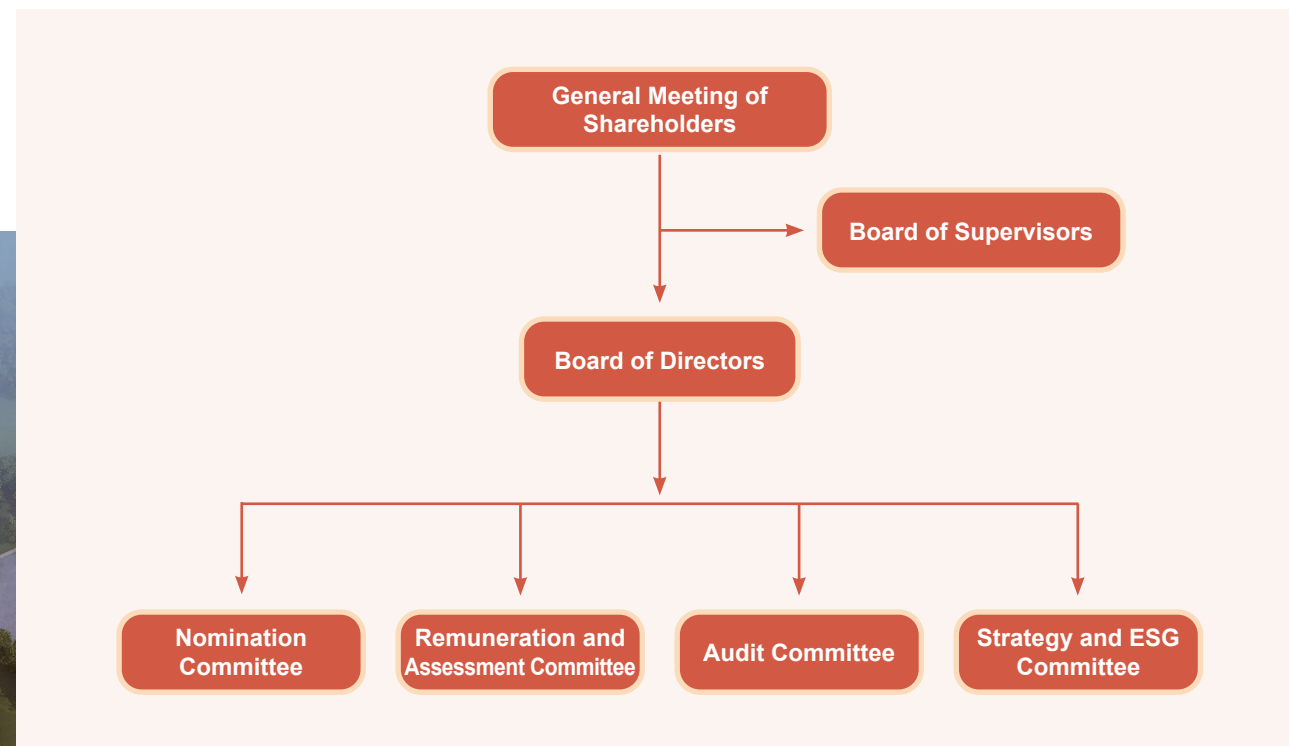
- 9 General Meetings of Shareholders held
- 38 proposals adopted at the shareholders' meeting
- 38 separately vote-counting proposals by minority shareholders
- 9 board members
- 3 independent directors
- 2 female directors
- 15 board meetings held
- 76 proposals adopted
- 3 Supervisory Committee members
- 2 employee supervisors
- 8 Supervisory Committee meetings held
- 24 proposals adopted
- 10 investor exchange activities organized
- 443 total investors participated
- More than 300 calls from investors answered
- 81 investors answered 133 questions through the SZSE Easy Interaction platform
- 12 risk management and control training sessions organized

Standardized Governance

DBN further improves the modern corporate system construction and governance structure, optimizes the governance structure and measures, and respects the opinions and demands of all stakeholders like shareholders, investors, employees, and collaborators, to enhance the efficiency of its governance.

➤ Governance structure

Strictly adhering to the requirements of relevant national laws and regulations, The Company has established an organizational structure consisting of "General Meeting of Shareholders, Supervisory Committee, Board of Directors and senior management". There are four specialized committees under the Board to form a governance structure and an organizational structure with scientific division of labor, clear responsibilities, and effective balance. They provide professional opinions for the scientific decision-making of the Board to ensure the orderly production and operation of our subsidiaries and further enhance our core competitiveness and sustainability capacity.



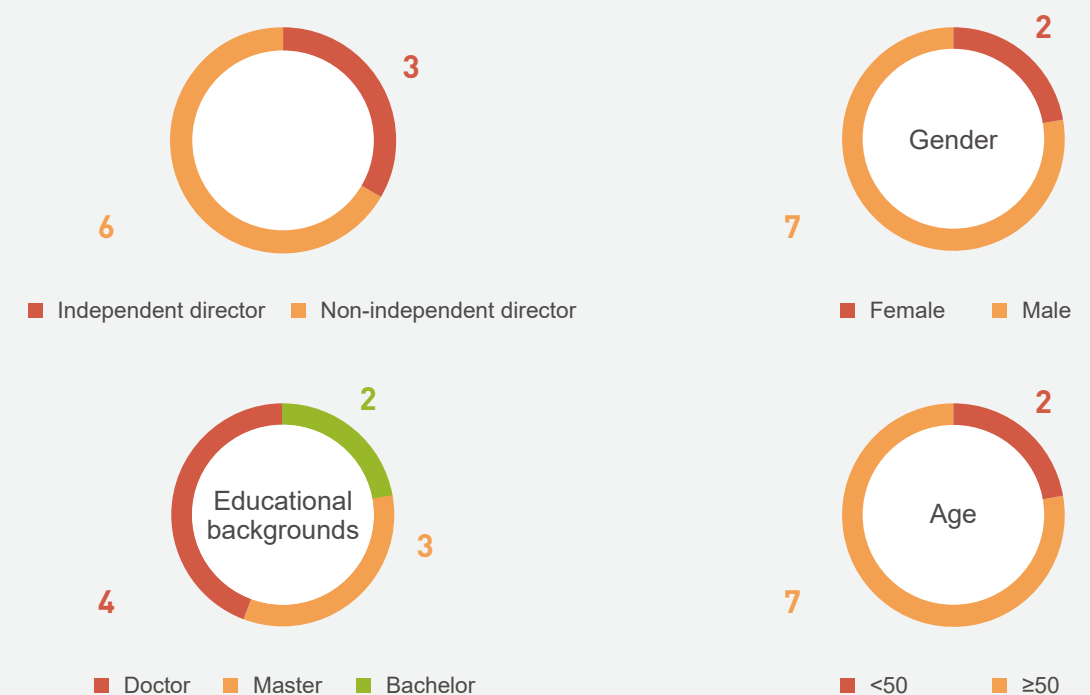
➤ Board diversity

Diverse professional backgrounds and experiences of Board members can provide different perspectives and values for corporate strategic planning, enabling committees to assess issues from broader perspectives. The current Board of Directors consists of 9 directors, including 3 independent directors, accounting for one-third of the Board members. The directors and supervisors, with a reasonable professional structure, have diversified professional experience in technology, accounting, management, law, finance, etc. as well as the knowledge, skills, and qualities required to perform their duties. They can put forward professional suggestions on stable operation, standardized governance and future development from different aspects.

Members of specialized committees under the Board

Board of Directors			
Nomination Committee	Remuneration and Assessment Committee	Audit Committee	Strategy and ESG Committee
Zang rihong (Chairman)	Feng Yujun (Chairman)	Yue Yanfang (Chairman)	Shao Genhuo (Chairman)
Feng Yujun	Yue Yanfang	Shao Lijun	Zhang Lizhong
Lin Sunxiong	Song Weiping	Feng Yujun	Zang rihong

Diverse board members



Name/ Backgrounds	Agriculture	Finance	Financial management	Risk management	Investment	Corporate governance
Shao Genhuo	√			√	√	√
Zhang Lizhong	√			√	√	√
Song Weiping	√					√
Tan Songlin	√		√		√	√
Lin Sunxiong	√		√	√	√	√
Shao Lijun	√			√	√	√
Zang Rihong		√		√		√
Yue Yanfang			√	√		√
Feng Yujun				√		√

Risk Management

Placing a high value on enterprise risk management (ERM) and internal control, we formulate the *Internal Control Management System*, the *Evaluation Manual*, and other management systems. We also develop a scientific and rigorous internal accounting control system, an authorization control system with clear responsibilities, a comprehensive and effective budget management system, and a supervision system combining internal audit and financial supervision. An effective performance appraisal mechanism is introduced to promote the effective implementation of internal control. Meanwhile, we strengthen the supervision responsibility of the Audit Committee and the supervision of the audit platform, to further improve the awareness and ability of risk prevention and control and promote high-quality development.

We continue to optimize the risk compliance management system to clarify the responsibilities of internal control at each level. The top-level structure of risk management consists of the Board, the Audit Committee and the Supervisory Committee. There are three lines of defense for risk and compliance management, namely, Business departments of divisions, Support functional departments at the industry level and DBN's functional system and audit platform. The collaborative management of the three lines fully implements the top-level supervision, controls at the source and continuously improves the efficiency of risk and compliance management. Following the risk management framework and basic specifications, we pay attention to the production and operation risks, cultivate the culture of internal control and risk management, continuously raise employees' awareness and ability of risk prevention and control, and improve the level of prevention and control, striving to ensure the realization of strategic objectives. In 2023, a total of 12 risk management and control training was organized.

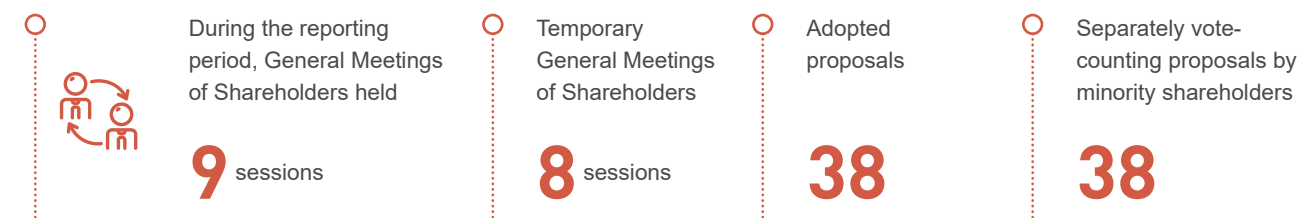
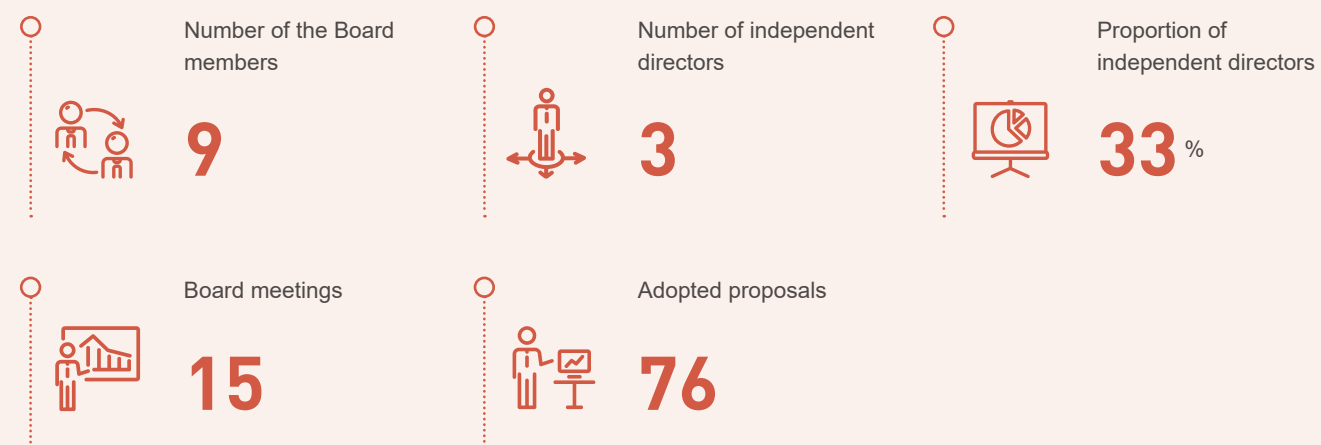
Investor Relations

DBN attaches great importance to communication and interaction with investors and actively conveys its business situations by expanding communication channels with investors, optimizing information disclosure processes, and effectively ensuring accurate and standardized disclosure of relevant information

► Protection of shareholder rights

Shareholders strictly abide by relevant regulations and requirements and the Company ensures that all shareholders, especially minority shareholders, enjoy equal status and can fully exercise their rights. Modern information technology is fully used to actively facilitate shareholders' execution of rights and practically protect the legitimate rights of shareholders, especially minority ones.

In 2023



Information disclosure

We actively perform our obligation of information disclosure and have developed regulations including the *Information Disclosure Management System*, the *Insider Registration Management System* and the *Internal Management System of Information Disclosure Suspension and Exemption*, so as to ensure the authenticity, accuracy, completeness, timeliness and compliance of the disclosed internal information. Communication with investors is strengthened through the interactive platform of the Shenzhen Stock Exchange (SZSE), reception of visitors, investor hotline and other forms to achieve good results.

Announcement disclosed during the reporting period	245	piece
Investor relations activity held	10	time
Total institutional investors	443	headcount
Investor communication record form released	9	piece
Call from investors answered	300	time
Investors answered through the SZSE Easy Interaction platform	81	headcount
Questions answered through the SZSE Easy Interaction platform	133	/

Business Ethics

DBN keeps abiding by laws, regulations, and social norms to fully build the rule of law and construct a compliance management system. The Company acts as a good "Corporate Citizen" by complying with various business ethics standards to promote high-quality development.

Legal compliance

Strictly complying with laws and regulations and adhering to the business philosophy of "frankness, uprightness, DBN featured thoughts, inspiring words, helpfulness", DBN continuously promotes and practices business ethics characterized by positive energy, integrity and compliance and has formulated the management regulations and handbooks in compliance areas such as the *DBN Cultural Discipline Regulations* and the *DBN Honesty and Integrity Systems*.

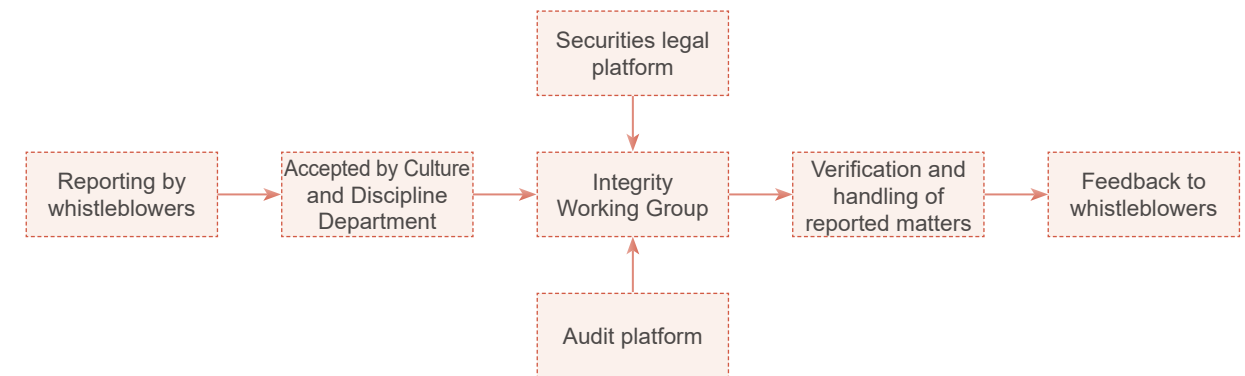
Anti-commercial bribery and corruption

The Company has formulated the *DBN Honesty and Integrity Systems*. We prohibit employees from taking advantage of their positions to seek gains for their own or others and forbid seeking personal interests by dishonest means such as fraud and false performance. Employees have been regulated in professional behavior to create an honest and upright working atmosphere.

Reporting channels and whistleblower protection mechanisms

We have established a reporting email for violations of integrity to receive real-name or anonymous reporting information from employees and external third parties. Employees at all levels and all social parties directly or indirectly involved in economic relations with DBN can report violations of integrity to our Culture and Discipline Department through reporting email, letters, interviews, and other channels.

In addition, we strictly keep the reported information confidential through measures such as strictly controlling the number of people who contact with reported information and concealing the personal information of whistleblowers. Any form of retaliation against whistleblowers is prohibited. We will seriously deal with anyone who threatens or carries out retaliations, and impose disciplinary penalties, labor contract termination, civil litigation, or administrative liabilities and criminal litigation in cooperation with judicial bodies depending on actual situations.



Complaint and reporting channels:

Reporting email: dbnwhjlb@dbn.com.cn

Mailing address: Culture and Discipline Department in DBN Phoenix International Innovation Park, No.19, Chengwan Street, Sujiatuo Town, Haidian District, Beijing (recipient), 010-82473969

Anti-unfair competition

In our production and operation, we are in strict accordance with the *Law for Countering Unfair Competition* and do not disrupt the market competition order or damage the legitimate rights of other operators or consumers. We ensure good internal management related to market economic activities, including contract, procurement and sales management to avoid unfair competition. Regular reviews of projects of our subsidiaries are taken with different frequencies based on project levels. In 2023, we did not receive any lawsuits against DBN regarding unfair competition.

Anti-monopoly

Upholding fair competition, we work to establish a sound anti-monopoly compliance management mechanism and make the collective declaration of operators with the law, and shall not direct or indirect engagement in the monopolies explicitly prohibited by laws and regulations, including but not limited to concluding monopoly agreements with other operators, abusing the dominant market position and implementing the concentration of operators that may eliminate or restrict competition.

Outlook in 2024

Strengthening agriculture and serving the country, pursuing rural vitalization, giving back to society, and empowering the nation

The long journey ahead filled with new development opportunities calls for great efforts. Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, DBN Group will serve the national strategy in making our way ahead, undertake the mission of the industry, strengthen self-dependent innovation, and stimulate agtech R&D and innovation. These endeavors will lend greater support to the Chinese dream and agricultural dream.

With the mission of "creating greater value for society", we will shoulder social responsibility, generate value for customers and partners, and pursue win-win cooperation with supplier partners as well as common development with the whole industry. In pursuit of green development, we will seek harmony with the environment. Putting people first, we will achieve progress together with employees. We will also contribute to communities by leveraging our strengths to drive community development and serving communities with care. We will see that our business operation aligns with global sustainable development goals and work together with stakeholders to build a better sustainable future!

Key Performance Indicators

Party building

Governance	Unit	2023
Party general branches	-	7
Party branches	-	125
Party members	-	>2,000
Proportion of Party members to total employees	%	10%

Business performance

Indicators	Unit	2023
Operation performance		
Revenue	RMB billion	33.39
Total assets	RMB billion	29.82
Total tax payment	RMB million	385
Business performance		
Feed sales	million tons	5.85
Put to market	million pigs	6.05
Seed sales volume	million kg	61.66
R&D performance		
R&D investments	RMB million	834
Proportion of R&D investment to operating costs	%	2.50
Number of R&D team members	-	2,991
Authorized invention patents	-	12
Authorized utility model patents	-	21
Invention patents applied	-	80
Sessions of intellectual property training	-	21
Participants of the intellectual property training	-	2,100

Governance

Governance	Unit	2023
Status of the General Meeting of Shareholders		
Number of General Meetings of Shareholders	-	9
Status of the Board of Directors		
Number of Board members	-	9
Male directors	-	7
Female directors	-	2
Independent directors	-	3
Proportion of independent directors	%	33.3
Board meetings	-	15
Adopted proposals	-	76
Status of the Supervisory Committee		
Number of Supervisory Committee members	-	3
Employee supervisors	-	2
Number of Supervisory Committee meetings	-	8
Adopted proposals	-	24
Investor communication		
Investor exchange activities	-	10
Total institutional investors participated	-	443
Investor communication record forms disclosed	-	9
Calls from investors answered	-	300
Investors answered through the SZSE Easy Interaction platform	-	81
Questions answered	-	133

Environmental

Indicators	Unit	2023
Environmental protection investment	RMB million	53.453
Greenhouse gas emissions	tCO ₂ e	2,103,953.72
Scope 1 emissions	tCO ₂ e	1,831,970.99
Scope 2 emissions	tCO ₂ e	271,982.73
Crop technology business	tCO ₂ e	38,067.79
Feed technology business	tCO ₂ e	228,126.01
Pig farming technology business	tCO ₂ e	1,809,487.62
Animal health and vaccine business	tCO ₂ e	19,957.30
Other	tCO ₂ e	8,315
Diesel oil	kg	1,212,735.78
Gasoline	kg	249,749.62
Natural gas	m ³	18,823,899.55
Liquefied petroleum gas	kg	31,788
Power	kwh	345,870,271
Heat	GJ	679,390.20
Total energy consumption	tce	69,755.48
Energy consumption intensity	tce/million revenue	2.09
Feed processing	tce	50,590.04
Animal science and technology	tce	12,929.82
Pig breeding	tce	2,188.24
Animal health vaccine	tce	3,065.79
Total wastewater	million tons	3.45
COD reduction	ton	40,793
Reduction of ammonia nitrogen	ton	2,718

Social

Indicators	Unit	2023
Employee		
Employees in total	-	18,465
Male	-	13,898
Female	-	4,567
Labor contract signing rate	%	100
Social insurance coverage rate	%	100
Employee promotion rate	%	9.32
Management position ratio	%	29.52
Business position ratio	%	58.54
Female employees entitled to maternity leave	-	459
Paternity leave employees	-	203
Investment in training in 2023	RMB million	19
Training hours in total	hour	>270,000
Trainees covered	-	147,372

Indicators	Unit	2023
Size of DBN Love Fund	RMB million	2.56
Recipients of DBN Scholarship for College Entrance Examination and Unified National Graduate Entrance Examination	-	140
Size of DBN Scholarship for College Entrance Examination and Unified National Graduate Entrance Examination	RMB million	0.41
Investment in safety facility improvement	RMB million	0.16
Society		
Number of recipients of DBN Scholarship	-	619
Size of DBN Scholarship	RMB million	1.14
Number of recipients of DBN Fellowship	-	201
Size of DBN Fellowship	RMB million	0.25
Feed technology industry supplier	-	1,508
Suppliers evaluated annually	-	1,508
Pig farmers included in joint partnerships	-	>2,000
Farmers served by seed business services	million	nearly 0.66
Universities and societies that have signed strategic cooperation agreements	-	30

A list of important research platforms

No.	Category	Name
1	State-level key laboratory	State Key Laboratory of Direct-Fed Microbial Engineering (DBN Group)
2	National key laboratory	National Key Laboratory of Rice Bio-Breeding (participation) (China National Rice Research Institute, Zhejiang University, Jinse Nonghua)
1	Key corporate laboratories listed by the Ministry of Agriculture and Rural Affairs	Key Laboratory of Protein Feed Bioengineering (DBN Group)
2	Key corporate laboratories listed by the Ministry of Agriculture and Rural Affairs	Key Laboratory of Bio-Breeding (DBN Group)
3	Key corporate laboratories listed by the Ministry of Agriculture and Rural Affairs	Key Laboratory of Southwest Mountain Corn Breeding (Yunnan Datian Seed Co., Ltd.)
4	Key corporate laboratories listed by the Ministry of Agriculture and Rural Affairs	Key Laboratory of Northwest Pig Breeding (Shaanxi Power Feed Technology Co., Ltd.)
1	Seed industry matrix company	Beijing Dabeinong Technology Group Co., Ltd. (live swine "shoring-up weakness" sector)
2	Seed industry matrix company	Beijing Jinse Nonghua Seed Technology Co., Ltd. (rice "enhancing advantages" sector)
3	Seed industry matrix company	Yunnan Datian Seed Co., Ltd (corn "shoring-up weakness" sector)
4	Seed industry matrix company	Heilongjiang Longke Seed Industry Group Co., Ltd. (soybean "shoring-up weakness" sector and the japonica rice "enhancing advantages" sector)
1	Other provincial R&D platforms	National Certified Corporate Technology Center
2	Other provincial R&D platforms	National and Local Joint Engineering Laboratory of Crop Bio-Breeding
3	Other provincial R&D platforms	Beijing Engineering Technology Research Center of Feed Safety Bioregulation
4	Other provincial R&D platforms	Beijing Engineering Laboratory of Animal Genetic Engineering Vaccines
5	Other provincial R&D platforms	Beijing Engineering Research Center of Livestock and Poultry Biological Products
6	Other provincial R&D platforms	Beijing Engineering Research Center of Crop Molecular Breeding
7	Other provincial R&D platforms	Beijing Engineering Laboratory of Crop Bio-breeding
8	Other provincial R&D platforms	Fujian Provincial Key Laboratory of Aquatic Functional Feed and Aquaculture Environmental Regulation
9	Other provincial R&D platforms	Fujian Provincial Corporate Technology Research Center of Veterinary Biological Products
10	Other provincial R&D platforms	Fujian Provincial Technology Research Center of Microbial Development for Feed Use
11	Other provincial R&D platforms	Jiangsu Provincial Engineering Technology Research Center for High-quality Veterinary Vaccines

No.	Category	Name
12	Other provincial R&D platforms	Jiangxi Provincial Technology Research Center of Pig Nutrition and Feed Safety
13	Other provincial R&D platforms	Guangdong Liquid Fertilizer Technology Research Center
1	National high-tech company	Beijing Dabeinong Technology Group Co., Ltd.
2	National high-tech company	Jiangxi Dabeinong Technology Co., Ltd.
3	National high-tech company	Hebei Fontaine Feed Co., Ltd.
4	National high-tech company	Fujian Dabeinong Aquatic Technology Group Co., Ltd.
5	National high-tech company	Ningxia Dabeinong Science and Technology Industrial Co., Ltd.
6	National high-tech company	Harbin Dabeinong Animal Husbandry Technology Co., Ltd.
7	National high-tech company	Hunan Dabeinong Agricultural Science and Technology Co., Ltd.
8	National high-tech company	Shenyang Yingda Technology Development Co., Ltd.
9	National high-tech company	Wuhan DBN Agriculture and Livestock Development Co., Ltd.
10	National high-tech company	Yunnan Dabeinong Feed Technology Co., Ltd.
11	National high-tech company	Hunan Dabeinong Huayou Aquatic Technology Co., Ltd.
12	National high-tech company	Zhangzhou Dabeinong Agricultural Technology Co., Ltd.
13	National high-tech company	Jiangsu Dabeinong Aquatic Technology Co., Ltd.
14	National high-tech company	Beijing Dabeinong Animal Health Care Technology Co., Ltd.
15	National high-tech company	Shaoshan Dabeinong Animal Pharmaceutical Co., Ltd.
16	National high-tech company	Zhaofenghua Biotechnology (Fuzhou) Co., Ltd.
17	National high-tech company	Zhaofenghua Biotechnology (Nanjing) Co., Ltd.
18	National high-tech company	Beijing Jinse Nonghua Seed Technology Co., Ltd.
19	National high-tech company	Beijing Dabeinong Biotechnology Co., Ltd.

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No.	Category	Name
20	National high-tech company	Beijing Fengdo High-Tech Seed Co., Ltd.
21	National high-tech company	Hebei Green Agrosino Crop Science Co., Ltd.
22	National high-tech company	Dongguan Yixiang Liquid Fertilizer Co., Ltd.
23	National high-tech company	Guangzhou Yixiang Agricultural Technology Co., Ltd.
24	National high-tech company	Yunnan Datian Seed Industry Co., Ltd.
25	National high-tech company	Gansu Dabeinong Biotechnology Co., Ltd.
26	National high-tech company	Fuquan Dabeinong Agricultural Science and Technology Co., Ltd.
27	National high-tech company	Gansu Huirui Fermentation Technology Research Institute Co., Ltd.
28	National high-tech company	Inner Mongolia Menglong Seed Technology Co., Ltd.
29	National high-tech company	Sichuan Chuandan Seed Industry Co., Ltd.
30	National high-tech company	Hubei Huazhan Seed Technology Co., Ltd.
1	National key leading enterprise of agricultural commercialization	Beijing Dabeinong Technology Group Co., Ltd.
2	National key leading enterprise of agricultural commercialization	Beijing Jinse Nonghua Seed Technology Co., Ltd.
3	National key leading enterprise of agricultural commercialization	Ningxia Dabeinong Science and Technology Industrial Co., Ltd.
4	National key leading enterprise of agricultural commercialization	Shaanxi Power Feed Technology Co., Ltd.
5	National key leading enterprise of agricultural commercialization	Hebei Fontain Feed Technology Co., Ltd.
6	National key leading enterprise of agricultural commercialization	Yunnan Datian Seed Industry Co., Ltd.

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Reader Feedback Sheet

Dear readers,

Thank you for reading the report. Any constructive suggestions to improve our CSR program and the quality of our reports are welcomed, which will become an important basis for us to improve the quality of our reports and enhance our CSR capability.

Optional questions: (Please tick the appropriate option)

1. What is your general impression of this report?

Very good Good Fair Poor Very Poor

2. Do you think this report reflects the significant impact the company has had on the local economy, society and environment?

Very good Good Fair Poor Very Poor

3. What do you think of the quality of the social responsibility information disclosed in this report?

Very good Good Fair Poor Very Poor

4. What do you think of the layout design of this report?

Very good Good Fair Poor Very Poor

5. What do you think of the readability of this report?

Very good Good Fair Poor Very Poor

Open questions:

1. If you have any suggestions on our CSR program, please specify

2. What deficiencies do you think exist in this report?

3. What other social responsibility information do you think should be disclosed in this report?

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