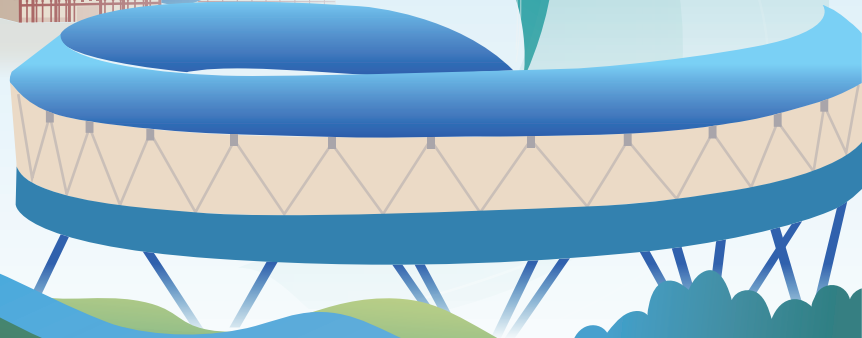
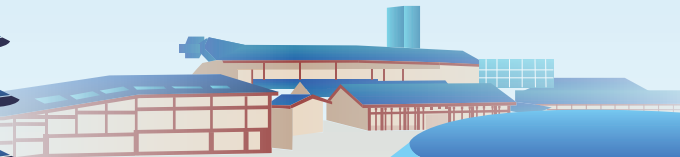
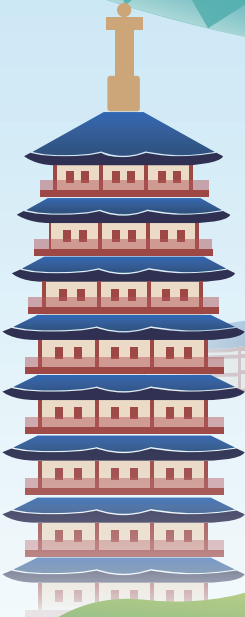
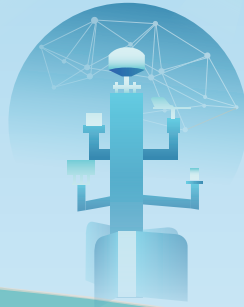
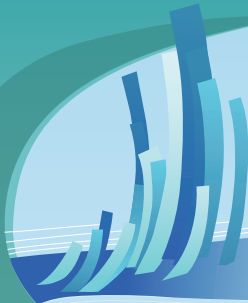


# Beijing Enterprises Group Company Limited

ESG REPORT  
(2025版)



# CONTENTS

Report Specification	03
Message from the Leadership	05
About BG	09

Prospects	83
Appendix	85
Key Indicators	85
Feedback	88
Index of Indicators	89
Rating Report	91

## 01

### Responsible BG

Staying True to Our Original Aspiration and Fulfilling Our Mission

Party-Building Leadership: Demonstrating the Responsibility of a State-Owned Enterprise	16
Sound Decision-Making: Enhancing Corporate Governance	19
Deepening Reform: Innovating Systems and Mechanisms	25
Giving Back to Society: Building a Better Life Together	26

## 03

### Green BG

Promoting Greening and Decarbonization

Green Transition: Driving Carbon Reduction in Different Industries	46
Clean and Eco-Friendly: Facilitating Energy Transition to Reduce Carbon Emissions	48
Low-Carbon Projects: Assisting Clients in Reducing Carbon Footprints	50
Practicing the "Dual Carbon" Goals: Addressing Climate Change	52
Energy Conservation and Emissions Reduction: Enhancing Pollution Control	56
Resource Conservation: Advancing Circular Economy	57
Environmental Protection: Supporting Ecological Restoration	58

## 05

### Quality BG

High Standards and High Quality

Excellent Products: Enhancing Quality Management	76
First-Class Services: Responding Swiftly to Public Complaints	77
Outstanding Brands: Strengthening Our Golden Reputation	79
Efficient Management and Control: Coordinating High-Quality Development	80

## 02

### Technological BG

Stimulating Vitality and Driving Growth

System Optimization: Fostering Innovation Momentum	34
Tackling Key Challenges: Empowering the Future with Digital Intelligence	38
Talent Aggregation: Supporting Sci-Tech Innovation Development	41

## 04

### Humanistic BG

Uniting People and Enriching Culture

Workplace Safety: Safeguarding Development through a Safety Culture	64
Building Cohesion: Shaping Cultural Development Power	67
Employee Growth: Creating a Fulfilling Workplace	70

# Report Specification

## Reporting Period



The Report covers the environmental, social, and governance performance of Beijing Enterprises Group Company Limited and its affiliated enterprises from January 1 to December 31, 2024. Some content may extend beyond the above period.

## Release Cycle



The Report is released annually. Starting in 2025, the report format has been updated. The year displayed on the cover now corresponds to the year of publication.

## Reporting Boundary



The Report covers the Headquarters and subsidiaries of Beijing Enterprises Group Company Limited. All case studies are drawn from its affiliated enterprises, and the scope of data covers the enterprises in the consolidated statements.

## Reference Standards



UN's 2030 Sustainable Development Goals (SDGs)  
GRI Sustainability Reporting Standards issued by the Global Reporting Initiative (GRI)  
*Guidelines on High-Standard Fulfillment of Corporate Social Responsibility by Central SOEs in the New Era* issued by the State-owned Assets Supervision and Administration Commission of the State Council (SASAC)  
*Guidelines to the State-Owned Enterprises Directly under the People's Government of Beijing Municipality on Fulfilling Corporate Social Responsibility* issued by the SASAC of the People's Government of Beijing Municipality  
*Environmental, Social, and Governance Reporting Guide* issued by the Stock Exchange of Hong Kong Limited  
*ESG Reporting Guidelines for Listed Companies* released by the Shanghai Stock Exchange (SSE), Shenzhen Stock Exchange (SZSE), and Beijing Stock Exchange (BSE)

## Data Source



The historical data cited in the Report are the final statistics. In case of any discrepancy between financial data herein and those in the Annual Report, the latter shall take precedence. All financial data are presented in RMB unless otherwise specified.

## Appellation Description

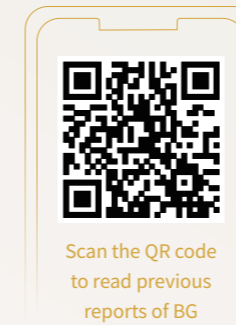


For ease of reference, Beijing Enterprises Group Company Limited is also referred to as "Beijing Enterprises Group," "BG," "the Group," and "we" herein.

## Report Access



The Report is available in both Chinese and English, in print and online formats. For the online version, please visit the official website of BG ([www.begcl.com](http://www.begcl.com)) or scan the QR code on the left. For the paper version, please contact us at [esg@begcl.com](mailto:esg@begcl.com).



Scan the QR code  
to read previous  
reports of BG

The Report is the 13th report of BG in practicing sustainable development. In 2024, the Group drew up the *Opinions of Beijing Enterprises Group on Strengthening ESG Work of Directly Affiliated Enterprises*, which, upon approval by the Board of Directors, serves as a comprehensive guideline for the Group's ESG work. Since BG is a holding group, the Headquarters is not directly responsible for the production and operation, and all directly affiliated enterprises are responsible for providing ESG-related content and performance indicators and ensuring the authenticity and reliability of the data.

## Design Concept



The design of the Report is closely aligned with the strategic vision of the "Five Pillars of BG." Set against an ink-wash backdrop of "lucid waters and lush mountains," it features representative elements of "Responsible BG, Technological BG, Green BG, Humanistic BG, and Quality BG," gradually unfolding a vivid scroll that illustrates BG's contribution to the building of a Beautiful China. This symbolizes the Group's continuous progress toward new heights in sustainable development.

# Message from the Leadership

## Message from the Chairman



### Tian Zhenqing

Secretary of the Party Committee  
and Chairman of Beijing Enterprises  
Group Company Limited

The year 2024 marks the 75th anniversary of the founding of the People's Republic of China and is a critical year for achieving the goals and tasks of the 14th Five-Year Plan. Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, BG has fully implemented the guiding principles of the 20th National Congress of the CPC and the Second and Third Plenary Sessions of the 20th Central Committee. We have earnestly followed a series of important instructions of General Secretary Xi Jinping on Beijing's development, always bearing in mind the requirement that "Beijing is judged first and foremost by its political commitment." In active response to the new normal of China's economic development, we remain focused on the goal of building "Five Pillars of BG" set forth by the Group's Third Party Congress. With determination and vigor, we strive to stand at the forefront of the times and write a new chapter in high-quality development.

**Building a Responsible BG to fulfill our original aspiration and mission.** Anchored in the overall strategy for the great rejuvenation of the Chinese nation and the unprecedented changes in the world in a century, we boldly shoulder our strategic mission of serving the country. We have actively participated in enhancing the capital's strategic position, integrated into the coordinated development of the Beijing-Tianjin-Hebei region, and advanced the construction of the Xiong'an New Area. We have taken targeted measures to promote rural revitalization through a multi-dimensional assistance and support model combining "industrial development + employment support + consumption promotion + public welfare assistance," making solid progress in various assistance tasks. We have fully embedded

Party leadership into every aspect of corporate governance, continuously improved the modern enterprise system, and built an efficient governance framework with clear roles and responsibilities, aiming to integrate ESG principles deeply into our business operations. While accelerating our own high-quality growth, we have also strengthened supply chain collaboration, led industry progress, actively engaged in philanthropy and volunteer services, with the aim of further advancing high-quality livelihood projects.

**Building a Technological BG to empower innovation-driven development.** We have proactively planned our overall technological innovation framework with a focus on enhancing top-level design and implementing the innovation-driven development strategy. We have continued to enhance our technological innovation management system, supported by key technology-based enterprises and high-level innovation platforms, to steadily improve innovation efficiency. We have fully advanced the development of the "1+4+N" digital architecture and launched China's first source data service platform centered on the application of BeiDou technology. In 2024, BG invested RMB 3.33 billion in R&D, an increase of RMB 380 million on a year-on-year basis. We now have over 80 high-tech enterprises within the Group and hold more than 4,000 patents, including nearly 900 invention patents.

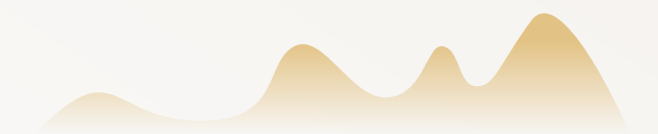
**Building a Green BG to envision a low-carbon future.** With our mission of "serving the country's carbon peaking and carbon neutrality strategy and promoting sustainable urban development for a better city," we have accelerated the deployment of green energy, explored multi-energy coupling application scenarios, and expanded into emerging sectors such as hydrogen and energy storage. Our "N+1+X" hydrogen energy supply system has continued to improve, with steady progress in promoting the green and low-carbon transformation of traditional energy. In active response to climate change, we have deployed ten key tasks for industry development by focusing on five major industry sectors, and established six green development elements to further tap into our energy-saving and carbon-reduction potential. Moreover, we have sped up energy-saving and carbon-reduction upgrades in key energy-consuming sectors such as heat supply, water services, food manufacturing, and construction, while enhancing the capacity for innovation and application of cutting-edge green and low-carbon technologies. In 2024, BG's installed capacity of renewable energy power generation reached nearly 800 MW, with annual renewable energy generation exceeding 3 billion kWh.

**Building a Humanistic BG to nurture spirit and culture.** Firmly shouldering the political responsibility of safeguarding the capital's safety and stability, we have continued to improve our workplace safety management system, enhance our dual prevention mechanism for safety risk management and hazard

investigation and rectification, strengthen professional emergency teams, and organize real-world emergency drills to improve our emergency response capabilities in all aspects. In 2024, BG conducted 241,000 safety inspections and invested RMB 3.3 billion in workplace safety. Upholding the cultural philosophy of "responsibility, professionalism, innovation, and sharing," we have explored and developed specialized cultural philosophies highly aligned with the development of "Five Pillars of BG," and built a corporate culture system with BG's unique characteristics. With a people-centered approach, we have effectively safeguarded employees' lawful rights and interests, expanded career development pathways, and optimized the environment for employee growth, thereby fostering a positive atmosphere for recognizing, valuing, respecting, and making full use of talent.

**Building a Quality BG to forge a benchmark of excellence.** Keeping in mind the vision of "becoming a world-class modern urban service provider," we have fully leveraged our collaborative advantages of comprehensive urban operation services to strengthen quality management, create excellent products, and consistently deliver high-quality services to users. Moreover, we have taken active measures to build outstanding brands that match our high-quality development goals, continuously enhancing the reputation and prestige of the "BG" brand. We have advanced internal management to high standards, improved the collaborative operation mechanism across legal, compliance, risk, and internal control functions, implemented the chief auditor work system, and enhanced the level of refined and professional management. By actively building a coordinated "six-in-one" supervision framework, we strive to form a strong oversight synergy and complete the "Three-Year Full Coverage" of internal control supervision and evaluations.

**As the tide rises and the sea stretches wide, a thousand sails set forth.** 2025 will be both the concluding year of the 14th Five-Year Plan and the year of planning for the 15th Five-Year Plan. Following the general principle of pursuing progress while ensuring stability, we will focus on our core function of comprehensive urban public utility construction and operation services, and embed ESG principles into the Group's sustainable development strategy. Through these efforts, we aim to fully advance the new pattern of a "Responsible BG, Technological BG, Green BG, Humanistic BG, and Quality BG," continue to play a leading role in serving national strategies and supporting the capital's development, and take solid steps toward building a world-class enterprise.



## Message from the President



### Zhu Guodong

Deputy Secretary of the Party Committee,  
Director, and President of Beijing  
Enterprises Group Company Limited

朱国栋

In 2024, BG earnestly implemented the work plans of the CPC Beijing Municipal Committee, the People's Government of Beijing Municipality, and the SASAC of the People's Government of Beijing Municipality, actively fulfilling its responsibilities and mission as a comprehensive urban operation service provider. Facing a complex and evolving market environment, we focused on reform and development priorities by planning operations, ensuring effective execution, and strengthening management. As a result, we achieved our annual business targets, with key performance indicators remaining among the top tier of municipal SOEs. In 2024, BG recorded operating revenue of RMB 128.241 billion and total profit of RMB 8.321 billion.

#### **We drove innovation and empowered green development through digital intelligence.**

We established our Association for Science and Technology, invested RMB 3.33 billion in R&D, and held a technological achievement release conference to accelerate breakthroughs in core technologies. Four products, including the gas chromatograph developed by BIIC, reached internationally advanced levels, with one product being an international first in its technology. Under the "one enterprise, one policy" approach, we developed an action plan for digital transformation, creating 116 representative digital application scenarios and 89 key projects and tasks. A total of 26 systems—including the Group's portal and data platform—were successfully launched. We achieved new progress in industrial digitalization,

gained new momentum in digital industrialization, and made new breakthroughs in data value realization. We formulated a Carbon Peaking Action Plan with 16 key tasks. Our green and low-carbon transition also delivered substantial outcomes. Beijing Gas built an "N+1+X" hydrogen energy supply system. BBEG enhanced support services for producing green hydrogen from biomethane and blending hydrogen into natural gas pipelines. BE Environment's Gaoantun and Taian Projects received the first batch of Green Certificates. Moreover, we further improved ESG governance by developing an ESG system with the characteristics of a capital-based State-Owned Enterprise (SOE). Adhering to the principle of "promoting management through preparation," we enhanced ESG management at all levels of the Group, achieving tangible development results. We ranked 6th for the second consecutive year among the "CSR Pioneer Index Top 100 SOEs" selected by the SASAC and were also selected as one of seven ESG pilot enterprises by the SASAC of the People's Government of Beijing Municipality. Additionally, we continuously encouraged all directly affiliated enterprises to "promote execution through preparation," with ESG reporting coverage from the Group headquarters to directly affiliated enterprises and listed companies. For the first time, we were listed among the top 30 in China's Top 300 Enterprises by the CSR Development Index, significantly enhancing ESG performance.

#### **We fulfilled corporate social responsibilities and shouldered our mission with great commitment.**

Fully leveraging our role in serving the capital's functions, we proactively contributed to Beijing's strategic position as a center for international exchanges and an international consumption center. The Yanqi Lake Hotel Complex hosted over 1,200 events, including the Senior Officials Meeting of the Forum on China-Africa Cooperation. The Winter Olympic Zone staged more than ten top-tier domestic and international snow and ice sports events during the season, achieving record highs in both the number of single-day visitors and total operating revenue. We also made new progress in rural revitalization, with BG donating RMB 10.8902 million to public welfare causes and achieving RMB 13 million in consumption-based assistance. For six consecutive years, we have received an "Excellent" rating in the assessments on "the effectiveness of poverty alleviation and rural revitalization initiatives" of the SASAC of the People's Government of Beijing Municipality—ranking among the top performers. In addition, we built an internal talent market and developed a total salary budget model. We also attracted high-caliber talent in different professional fields to strengthen our workforce. To fully implement work safety responsibilities, we

carried out the three-year action for addressing fundamental workplace safety challenges and other special initiatives, maintaining a stable and positive safety record.

#### **We deepened reform and enhanced efficiency through lean management.**

We fully implemented the initiative to deepen and upgrade SOE reform, deeply advanced the optimization and integration of resources, and strengthened inter-company collaboration within the Group and headquarters functions. Through the specialized restructuring of Beijing Enterprises Smart City Technology Group Co., Ltd. and related companies, we established Beijing Enterprises Smart City Technology Group Co., Ltd (BGSC). Furthermore, we maximized the role of comprehensive budget management, initially built a group-wide unified standardized financial accounting system, and launched a special campaign on "Management Improvement, Cost Reduction, and Efficiency Enhancement," as well as the turnaround of loss-making enterprises. As a result, the total market capitalization of the Group's controlling listed companies rose 17% from the start of the year. Efforts were made to strengthen internal control, compliance, and risk management, ensuring that all subsidiaries completed the required internal control self-assessments. Besides, we ensured the effective implementation of inspections and rectifications, with Yanjing Beer becoming the first company in its industry to pass international compliance management standards certification.

#### **The road ahead is firm and unwavering, and those who tread it have no bounds.**

2025 will be both the concluding year of the 14th Five-Year Plan and the final year of the new round of the initiative to deepen and upgrade SOE reform. As BG steps into its 20th anniversary milestone, we will remain confident, work harder, bridge the past and the future, and pool our efforts for greater momentum. Through solid ESG practices, we will support the Group's sustainable development and advance the comprehensive development of "a Responsible BG, Technological BG, Green BG, Humanistic BG, and Quality BG," laying a solid foundation for the Group to embark on the new journey of the 15th Five-Year Plan. Through these endeavors, we will make greater contributions to helping Beijing lead the country in basically achieving socialist modernization and work tirelessly to write the BG's chapter in the journey of building a modern socialist country in all respects.

# About BG

## Group Profile

Beijing Enterprises Group Company Limited (hereinafter referred to as "BG" or "the Group") was established in January 2005 through investment by the People's Government of Beijing Municipality, in response to the reform of China's state-owned asset management system and the market-oriented transformation of public utilities. BG was formed through the merger and restructuring of the former Beijing Holdings Limited, Beijing Enterprises Holdings Limited, and Beijing Gas Group Co., Ltd. It is now a large municipally administered state-owned enterprise group.

BG is committed to its mission of "serving the country's carbon peaking and carbon neutrality strategy and promoting sustainable urban development for a better city." Leveraging the key drivers of modern urban development and aligned with national strategies, the Group

focuses its investments on public services, infrastructure development, ecological and environmental protection, livelihood improvements, and the cultivation of strategic emerging industries. Through these efforts, BG strives to promote equitable access to public services and interconnected infrastructure, dedicated to delivering domestically leading and world-class modern urban integrated and comprehensive services for a better city.

Today, BG has grown into a state-owned holding group that operates in both domestic and international markets, engaging in industrial operations and capital management. Its business footprint covers over 400 cities across China, with international operations extending into Europe, the Americas, Oceania, and Southeast Asia. The Group holds controlling or equity interests in more than 1,600 companies, including 10 listed

companies—7 of which are listed in Hong Kong. In 2024, BG reported total assets of RMB 443.454 billion, operating revenue of RMB 128.241 billion, total profit of RMB 8.321 billion, and total tax contributions of RMB 6.657 billion. BG has been ranked among the "Top 500 Chinese Enterprises" for consecutive years, placing 200th in 2024. BG was also recognized by the Communist Party of China (CPC) Central Committee and the State Council as one of the units that made outstanding contributions to the Beijing 2022 Olympic Winter Games and the Beijing 2022 Paralympic Winter Games. Beijing Enterprises Holdings Limited (BEHL), Beijing Enterprises Water Group Limited (BEWG), and China Gas Holdings Limited (China Gas) have consistently been listed in Fortune China's Top 500 Listed Companies for several consecutive years.

2024 年



BG reported total assets of RMB  
**4,434.54** billion



operating revenue of RMB  
**1,282.41** billion

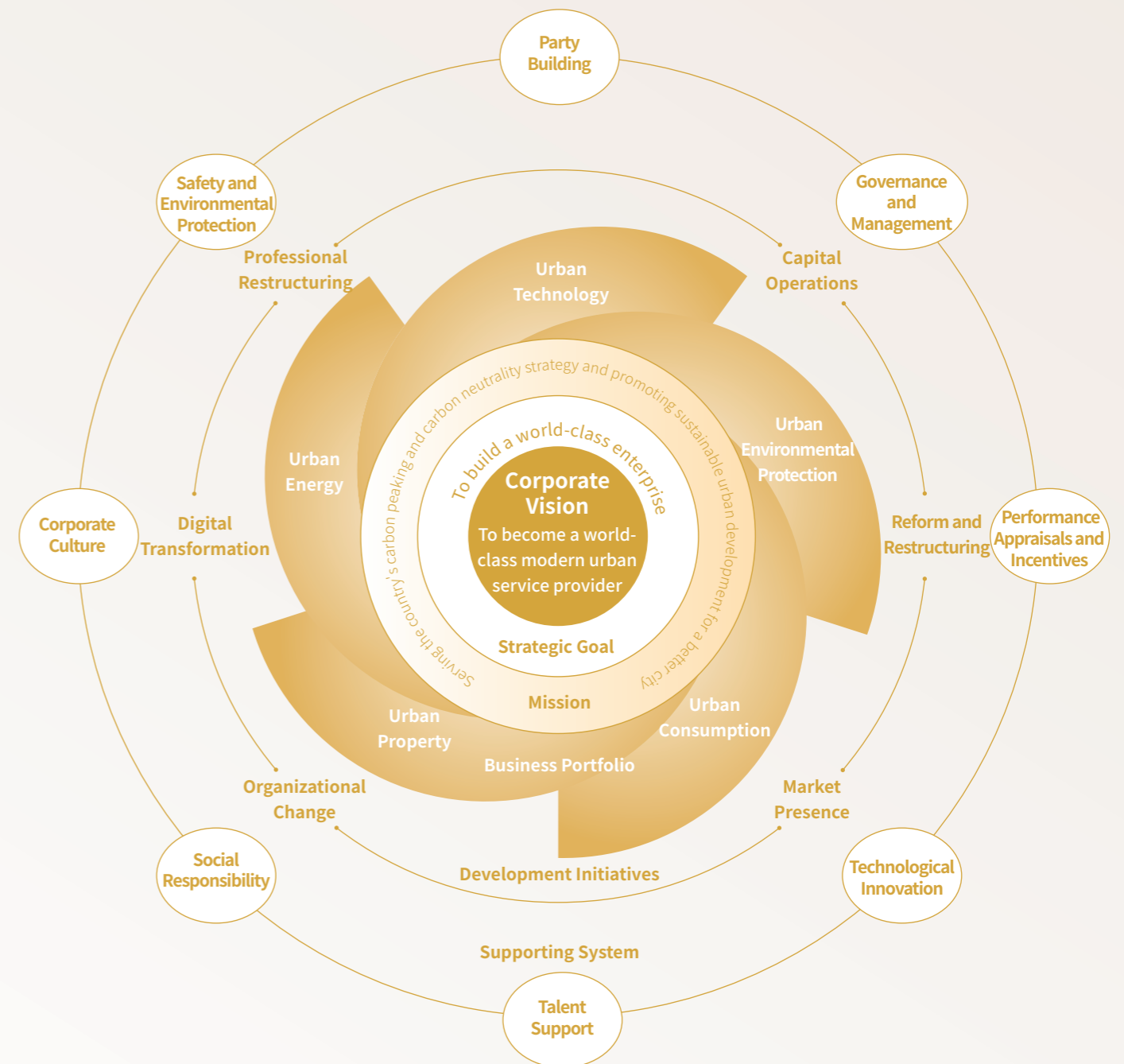


total profit of RMB  
**83.21** billion

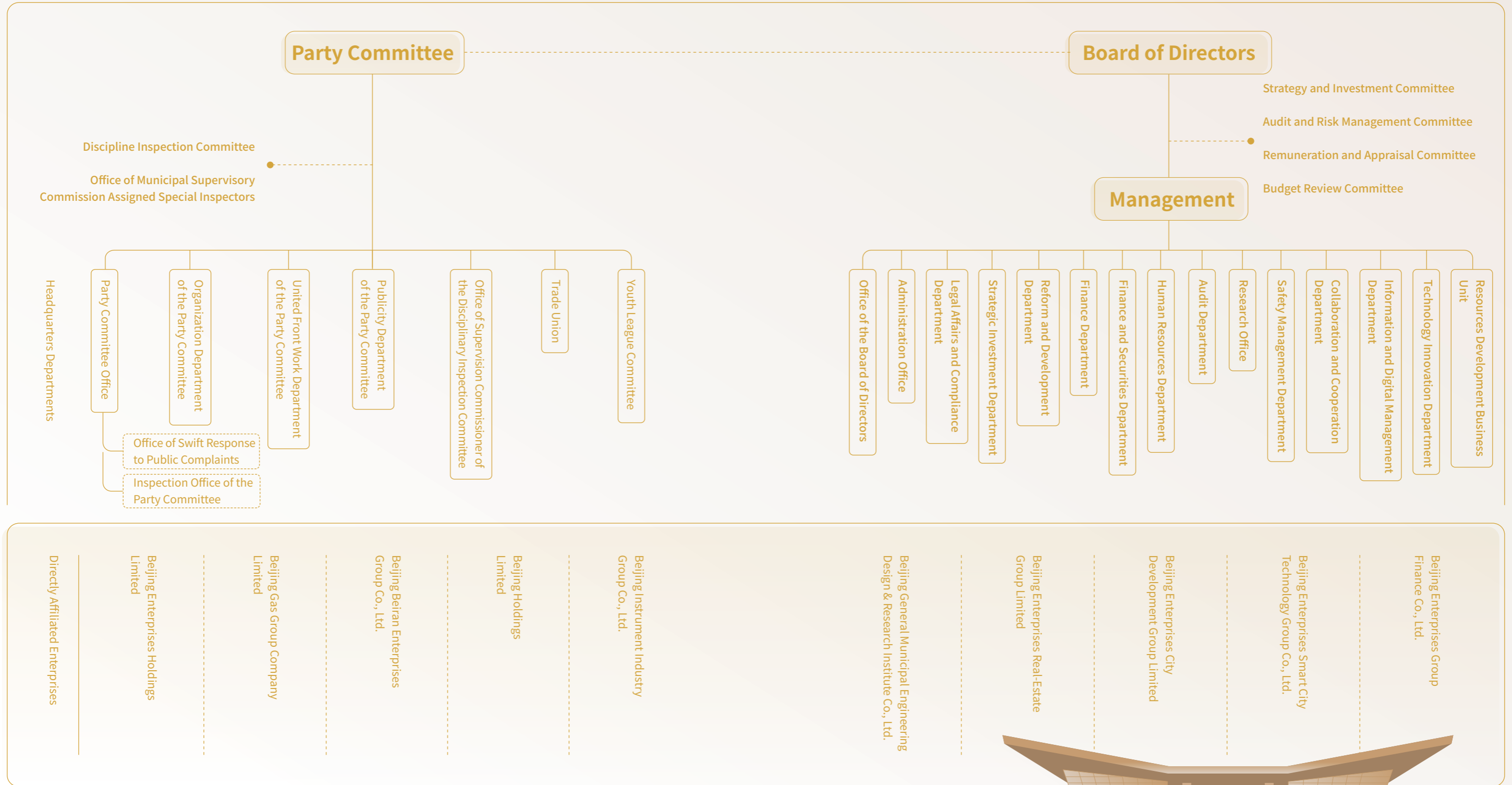


total tax contributions of RMB  
**66.57** billion

## BG's Development Strategy



# Organizational Structure



Note: 1. "Directly affiliated enterprises" refer to entities under a management relationship, i.e., those whose equity representatives are appointed by Beijing Enterprises Group;  
2. The organizational structure is updated as of July 2025.

# 01

# Responsible BG

Staying True to Our Original Aspiration and Fulfilling Our Mission

## BG's Solutions for Urban Sustainable Development

Beijing Enterprises Group always keeps in mind both the overall strategy for the great rejuvenation of the Chinese nation and the unprecedented changes in the world in a century, remaining committed to serving the country's most fundamental interests. With a strong sense of political responsibility, BG closely aligns itself with the overarching development of the capital in the new era. It has strengthened corporate governance to support informed decision-making, deepened the reform of state-owned enterprises (SOEs), innovated its market-oriented operating systems and mechanisms, and promoted public well-being to give back to society. Through these efforts, BG is committed to building a "Responsible BG" that preserves and increases state-owned assets, conforms to and serves national priorities, and proactively contributes to social welfare.

## Active Response to SDGs



## Governance

- We formulated the *Guiding Opinions on Strengthening the Establishment of Specialized Committees under the Board of Directors of Directly Affiliated Enterprises of Beijing Enterprises Group*.
- We implemented the *Implementation Measures for the Workers' Congress of Beijing Enterprises Group*.

## Actions in 2024

- Our Board of Directors comprised **eight** members, including **three** internal and **five** external directors.
- We donated RMB **10.8902** million to public welfare and completed RMB **13** million in consumption-driven assistance.
- We were selected as one of the "CSR Pioneer Index Top 100 SOEs (2024)" by the SASAC, ranking **6th** overall and **1st** among Beijing-based SOEs.

## Plans for 2025

- We will fully support Beijing in building itself into an international consumption center.
- We will continuously improve the capabilities of the Board of Directors in strategic planning, decision-making, and risk prevention.
- We will further deepen reform and ensure the effective implementation of reform missions.
- We will contribute to urban renewal and help create a more livable urban environment.



## Story of Responsible BG

### A billion-level LNG terminal safeguarding energy security in the Beijing-Tianjin-Hebei region

In the depths of winter, on the shores of the Bohai Sea. At the Tianjin Nangang LNG Emergency Reserve Project site operated by Beijing Gas Group, ten LNG storage tanks are operating at high liquid levels. Dispatchers closely monitor upstream and downstream supply-demand dynamics, enabling timely information transmission for informed scheduling decisions. Intelligent inspection robots conduct frequent patrols across the site, reinforcing the project's operational safety. With each department performing its role efficiently, the facility presents a busy and coordinated scene of winter gas supply assurance. To date, eight LNG vessels have unloaded 510,000 tons of LNG, completing the transmission of 742 million cubic meters of pipeline gas and the filling of nearly 7,000 LNG tank trucks. At its peak, the daily gas supply reached 26 million cubic meters, accounting for 19% of Beijing's daily gas consumption, significantly boosting LNG emergency peak-shaving and supply security capabilities.

The Tianjin Nangang LNG Emergency Reserve Project continues to advance technological innovation, improving gas quality while ensuring clean and efficient commissioning. It achieved "zero venting" after 100% LEL (Lower Explosive Limit) gas replacement and clean commissioning, with the quality of exported gas surpassing the national Tier 1 standard during the production start-up phase. A suite of intelligent devices—working in concert for inspection—equipped the facility with smart "eyes" and "brains," enhancing the project's operational safety. The project plays a critical role in optimizing the energy structure and advancing the low-carbon economy across the Beijing-Tianjin-Hebei region by providing clean energy support.



Intelligent inspection robots conducting frequent patrols across the site



Customized measures for each vessel ensure safe and reliable LNG unloading



Enhanced safety inspections for project operations

## Party-Building Leadership: Demonstrating the Responsibility of a State-Owned Enterprise

### Party-building leadership uniting forces to serve the capital's development in the new era

#### Supporting the development of the capital

In line with the capital's strategic goal of strengthening its functions, BG fully delivers on its mission as a comprehensive urban operation service provider. By leveraging innovation-driven development and refined management, the Group aims to set a benchmark for world-class city services that align with Beijing's role as the capital of a major nation. BG remains steadfast in its development principle of "rooted in Beijing, serving the capital" and earnestly fulfills its political responsibility as an SOE in accordance with the mandates of the CPC Beijing Municipal Committee and the People's Government of Beijing Municipality.

Beijing Instrument Industry Group Co., Ltd. (BIIC), focusing on instrumentation and equipment manufacturing, has completed and passed acceptance of the second phase of its flagship incubator. BIIC has increased investment in experimental equipment and enhanced laboratory functionality, injecting strong momentum into the capital's socioeconomic development. The Beijing General Municipal Engineering Design & Research Institute Co., Ltd. (BMEDI) has been exploring application scenarios for low-altitude economy technologies and promoting deeper integration of vehicle-

As a SOE in the capital, BG upholds the Party's overall leadership as a fundamental principle. By deepening innovative Party-building practices, the Group is forging a strong political foundation and injecting powerful impetus into corporate development through Party-building efforts. As a result, a "Party Building +" model has been established, featuring comprehensive horizontal and vertical coverage, coordinated efforts at all levels, and unified advancement across all business scenarios and Party-building domains. Under this model, BG has fulfilled its role as a key pillar and main force in areas such as serving the capital's development in the new era, ensuring the sustainable use of the Winter Olympics legacy, advancing the policy of "One Country, Two Systems," and supporting rural revitalization. By transforming the Party's political, organizational, and institutional advantages into corporate development strengths, BG has driven high-quality development with high-quality Party building, contributing to advancing Chinese modernization.

BG embraces its mission of serving national strategies and the capital's development. With proactive steps and pioneering innovations in supporting the capital's development in the new era and advancing coordinated development in the Beijing-Tianjin-Hebei region, the Group has fully demonstrated the political responsibility and contemporary role of a state-owned enterprise, establishing itself as a model of exemplary commitment to the mission of SOEs.

road-cloud coordination with smart city development. Beijing Enterprises Real-Estate Group Limited (BERE) has actively participated in cultural exchange and consumption promotion events such as the China International Fair for Trade in Services (CIFTIS), the Dialogue among Civilizations, Understanding China forums, Ambassador's Banquets, and the "ChaoBA" basketball event. Capitalizing on resources like the Yanqi Lake project, BERE has underscored the "Convention & Exhibition +" concept and launched the "BG's Tour to Yanqi Lake International Conference Resort" to expand consumption capacity. BG Basketball Club Co., Ltd. (BG Basketball Club) has competed in the CBA for nine seasons and successfully advanced to the playoff quarterfinals.

#### Promoting coordinated development in the Beijing-Tianjin-Hebei region

The Tianjin Nangang LNG Emergency Reserve Project, operated by Beijing Gas, was fully completed and commissioned, establishing a new energy supply hub for the Beijing-Tianjin-Hebei region. Together with the Tangshan emergency reserve facility, it ensures robust emergency natural gas supply capabilities across the region. BMEDI has participated in the development of key demonstration zones for coordinated development in the Beijing-Tianjin-Hebei region, including Beijing's sub-center, the Xiong'an New Area in Hebei, and the airport economic zone near the Beijing Daxing International Airport. It has undertaken planning and design for the Xiong'an campuses of four Beijing universities, and contributed to the design of approximately 240 kilometers of highways and related rail infrastructure—enhancing the regional flow of production factors and supporting connectivity across the Beijing-Tianjin-Hebei region.



Aerial view of the Sixth Ring Highline Park in Beijing's sub-center

## Party-building leadership ensuring the implementation of Winter Olympics legacy sustainability

BG has vigorously advanced the sustainable utilization of the Winter Olympics legacy and the development of the Beijing-Zhangjiakou Sports, Culture and Tourism Belt. The Group continues to optimize its event service and support system, strengthen its market-oriented operational capabilities, create intelligent application scenarios within Winter Olympic venues, and transform Winter Olympic resources into public benefits, injecting new momentum into urban development.

### Enhancing event support services

The Yanqing Olympic Zone established ten dedicated task forces covering areas such as revenue generation, cost control, and event support. These groups developed detailed timetables and roadmaps to ensure efficient and well-organized operations for the new snow season. In 2024, BG successfully provided high-quality support for 12 competitive events, including the International Bobsleigh and Skeleton Federation (IBSF) World Cup Bobsleigh and Skeleton series and the 14th National Winter Games. The Group also introduced more than ten top-level international and domestic events, including the IBSF Skeleton World Cup Yanqing and the International Ski Federation (FIS) Snowboard Alpine Parallel Giant Slalom (PGS) World Cup.



A social lecture program for Beijing's primary and secondary students kicks off at the Olympic Zone

### Improving market-oriented operations

Guided by the philosophy of "embracing the public and giving back to society," the Yanqing Olympic Zone launched the "Joyful Ice and Snow Season: Share the Fun, Free Entry" campaign to actively promote the ice and snow industry. By integrating resources from projects such as "One Mountain, One Lake" and "Two Mountains, One Gorge," the Zone hosted the 38th Ice Lantern and Ice & Snow Carnival, explored cultural tourism IPs, extended the functions of Winter Olympic venues beyond the snow season, and proactively developed distinctive sectors such as cultural and tourism industries. The Zone explored new models for utilizing Olympic venues by introducing basketball elements, which include launching the FIBA BG Basketball Exchange Camp for Hong

Kong and Mainland teenagers. By integrating sports training, cultural tourism, and commercial operations, the Yanqing Olympic Zone is exploring a path of ecosystem empowerment that enriches its service portfolio and ensures high-quality, all-season operations.

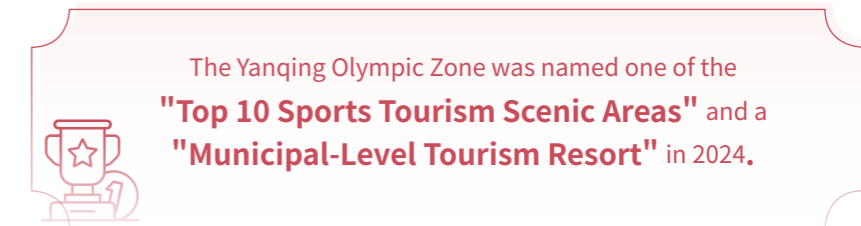
### Innovative utilization of Winter Olympics legacy

The Yanqing Olympic Zone features Winter Olympic venues built with green technologies that achieve ultra-low energy consumption and near-zero carbon emissions. It has introduced cutting-edge technologies such as AI data analytics, VR immersive viewing, and robotic sparring partners, establishing China's first comprehensive training center to meet the "K8 Standard." It has enhanced sensing-layer infrastructure and applied passive IoT and cloud platform technologies

to develop a smart ski resort operation management system. The "Beijing Yanqing Olympic Zone" WeChat mini program was launched to automate business processes and enable information sharing, continuously empowering the ice and snow industry with digital innovation.

### Passing on the Winter Olympic spirit

The Yanqing Olympic Zone has integrated the "Two Mountains, One Gorge" area and surrounding revolutionary heritage resources in Yanqing to launch an educational program titled "Inheriting the Olympic Spirit, Loving Our Motherland." This program promotes Winter Olympics culture, builds a new platform for patriotic education, and blends the Olympic spirit with red culture—offering spiritual motivation for cultivating the strivers of the new era.



## Party-building leadership fostering harmony and advancing the policy of "One Country, Two Systems"

BG remains steadfast in practicing the policy of "One Country, Two Systems" and leverages the complementary advantages of Beijing and Hong Kong. The Group capitalizes on the platform roles of its subsidiaries—BEHL and Beijing Holdings Limited (BHL)—to further expand its business footprint in Hong Kong and Taiwan. It has actively supported various high-quality exchange activities, such as the 27th Beijing-Hong Kong Economic Cooperation Symposium and the Changping-Hong Kong Themed Investment Promotion Conference, building key bridges for enhanced communication and collaboration.



Beijing-Hong Kong Joint Special Event on the New Development of Building an International Consumption Center



The 2023-2024 FIS Alpine Skiing Far East Cup (Yanqing Station) starts at the National Alpine Skiing Center ("Xue Fei Yan")

## Party-building leadership driving development and promoting rural revitalization

Based on a coordinated model of "industrial development + employment support + consumption promotion + public welfare assistance," BG has taken targeted measures to make solid progress in supporting villages with underdeveloped collective economy, including the entire Inner Mongolia region, Xinjiang, Qinghai, Tibet, Zhangjiakou and Chengde in Hebei Province, Changzhi in Shanxi, Beijing's Miyun District. These practical efforts have helped consolidate and expand achievements in poverty alleviation and rural revitalization, increasing incomes for local residents and delivering ongoing improvements in rural revitalization. In 2024, the Group further increased investment in paired assistance areas, donated RMB 1.15 million to rural revitalization causes, and completed

RMB 13 million in consumption-driven assistance to support key regions and populations. BG has earned an "Excellent" rating for six consecutive years in the assessments on "the effectiveness of poverty alleviation and rural revitalization initiatives" conducted by the SASAC

of the People's Government of Beijing Municipality, ranking among the top performers. The case "Fulfilling SOE Responsibilities to Support Rural Revitalization" was selected as one of the "Top 100 Rural Revitalization Practice Cases (2024)" by Xinhuanet.



BG invites students from Fengjiayu Town Central Primary School, a school receiving paired assistance from BG, to participate in study tours at the Yanqing Olympic Zone

## Sound Decision-Making: Enhancing Corporate Governance

### Refining the corporate governance structure

BG integrates Party leadership into all aspects of corporate governance. To this end, the Group has established a well-defined corporate governance structure with clear authorities and responsibilities, and improved the modern corporate governance system. These efforts aim to consistently enhance its modern governance efficiency, embed ESG principles deeply into business operations, and lay a solid foundation for the sustainable development of the enterprise.

BG has continuously refined its modern corporate governance structure by clarifying the principal role of the Board of Directors, implementing its authority, and standardizing its operations, thereby fully leveraging the Board's functions in strategic planning, decision-making, and risk prevention. The Group's Board of Directors consists of four specialized committees, namely the Strategy and Investment Committee, the Budget Review Committee, the Remuneration and Appraisal Committee, and the Audit and Risk Management Committee. The Board is supported by a Board Secretary and an Office of the Board of Directors, ensuring that all Board bodies are fully established and well-staffed. This provides a strong foundation for standardized, efficient Board operations and high-quality decision-making.

### Reinforcing the corporate governance system

BG has established a governance system characterized by clearly defined rights and responsibilities, standardized procedures, comprehensive rules and regulations, and high operational efficiency. The Group reinforces Party leadership throughout its corporate governance practices, builds a strong team of equity representatives, standardizes the duties of appointed directors and supervisors, and implements a differentiated management and control mechanism based on scientific principles. With a pragmatic and persistent approach, BG ensures effective implementation of all corporate governance systems and empowers management to focus on business development, operational execution, and strengthened management—thereby enhancing operational decision-making efficiency.

BG's Board of Directors has been rated "Excellent" for two consecutive years in the evaluation conducted by the SASAC of the People's Government of Beijing Municipality.

### The "Four Differentiations" Corporate Governance Mechanism

#### Facts about BG

- Differentiate between wholly owned enterprises and those with diversified equity structures
- Differentiate between the authority of Boards of Directors in enterprises with diversified equity structures and the decision-making authority of appointed equity representatives in enterprises with diversified equity structures
- Differentiate between brick-and-mortar and non-brick-and-mortar enterprises
- Differentiate between technology-based enterprises and other types of businesses

## Boosting scientific decision-making

BG promotes scientific and standardized operations of its Board by improving supporting systems and working mechanisms, ensuring that Board meetings follow legal and compliant procedures. The Group has formulated the *Guiding Opinions on Strengthening the Establishment of Specialized Committees under the Board of Directors of Directly Affiliated Enterprises of Beijing Enterprises Group*, helping subsidiaries standardize and improve the working procedures and responsibilities of the Audit and Risk Management Committee, and fully leveraging the role of the specialized committees of the Board of Directors. Moreover, the Group has enhanced the effectiveness of the Board of Supervisors by establishing a closed-loop management system for oversight and inspections, leading to an overall improvement in scientific decision-making across the Board.

## Improving democratic management

BG has implemented the *Implementation Measures for the Workers' Congress of Beijing Enterprises Group*, enhancing leadership mechanisms and work systems for democratic management. The Group leverages the trade union as a vital bridge between employees and the company, ensuring that employees can fully participate in democratic decision-making, management, and supervision. Furthermore, BG has advanced reform in industrial workforce development, fully mobilizing and unleashing employees' enthusiasm, initiative, and creativity, and sharing the benefits of the enterprise's reform and development with them. In 2024, BG and its directly affiliated enterprises organized 14 sessions of the Workers' Congress at two levels in total.

## Advancing Board development in subsidiaries

BG has concentrated its efforts on key reform tasks, including establishing Boards of Directors in all required subsidiaries, appointing adequate and competent individuals, enhancing skills and capabilities, standardizing operations, optimizing mechanisms, and enforcing roles and responsibilities. These initiatives have been refined and implemented layer by layer to support the ongoing consolidation of the operational foundation for Boards of Directors across all subsidiaries. The Group also promotes the establishment of Boards of Directors for wholly owned and majority-controlled enterprises, listed companies, and enterprises with diversified equity structures (including mixed-ownership enterprises), ensuring standardized operations across all Boards and significantly enhancing their operational effectiveness.



BG convenes its 2025 Annual Operations Conference and the Seventh Session of the First Workers' Congress

## Strengthening ESG governance

ESG has become a mandatory path for state-owned enterprises pursuing high-quality and sustainable development. With a profound understanding of the importance of ESG-related work, BG takes the implementation of ESG principles as a key component of its strategy to uphold the spirit of the 20th National Congress of the CPC and the Second and Third Plenary Sessions of the 20th Central Committee, and to play a leading role in exploring a Chinese path to modernization. The Group continues to refine its ESG framework with BG's distinctive characteristics, integrate ESG principles into its corporate development strategy, strengthen ESG governance, identify core issues of stakeholder concern, and establish diverse and effective communication channels with stakeholders. In addition, the Group regards ESG reports as its "golden business card" for external engagement, demonstrating its commitment to fulfilling corporate social responsibility to high standards and advancing ESG efforts at a high level.

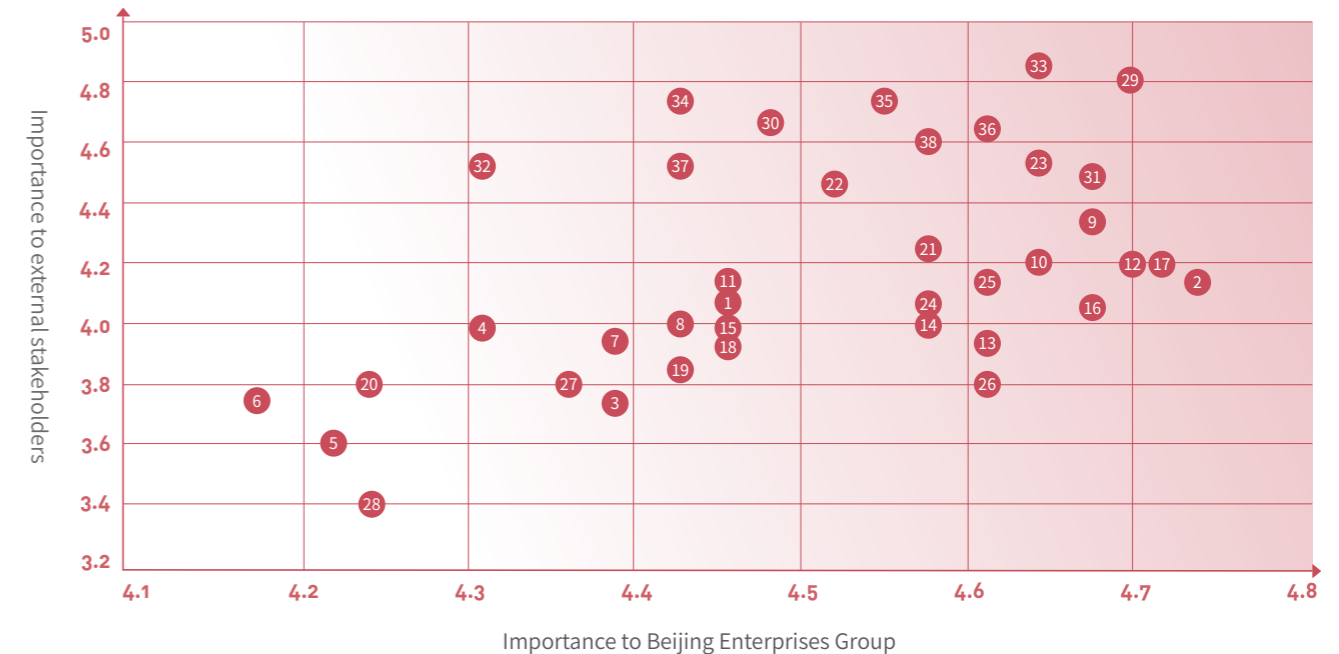
### ESG governance mechanism

BG has continuously improved its ESG governance system by formulating ESG policies, such as the *Opinions of Beijing Enterprises Group on Strengthening ESG Work of Directly Affiliated Enterprises*, to clarify the responsibilities of the Board of Directors and its specialized committees, management teams, and executive layers within directly affiliated enterprises. Moreover, the Group has established an ESG management evaluation system tailored to its directly affiliated enterprises, encouraging them to embed ESG practices into their strategic planning, set ESG targets, enhance ESG-related opportunity and risk management, and integrate ESG risks into their enterprise-wide risk management systems. ESG coverage now spans both the Group and its directly affiliated enterprises, with non-listed directly affiliated enterprises publishing their first ESG reports. BG was also selected as an ESG pilot enterprise by the SASAC of the People's Government of Beijing Municipality, further enhancing its ESG performance and serving as a model in the sector.

### Materiality assessment

In accordance with the ESG Reporting Guide of the Hong Kong Stock Exchange (HKEX) and with reference to the Global Reporting Initiative (GRI) standards, BG has incorporated the emerging requirements of high-quality development into its corporate responsibilities. The Group integrates economic, social, and environmental responsibilities, and identifies material topics through a comprehensive process involving the collection of stakeholder feedback, media and public opinion monitoring, input from internal and external experts, actual CSR practices within the Group's departments and subsidiaries, and benchmarking against CSR standards. Taking into account global ESG trends in 2024, the Group's strategic development direction, and stakeholder concerns, the materiality of each topic has been evaluated and adjusted accordingly, culminating in the identification of 38 material topics.

Materiality Matrix of Beijing Enterprises Group 2024 ESG Report



1	Promoting industrial carbon reduction	20	Supporting industry development
2	Energy transition and carbon reduction	21	Protecting employee rights and interests
3	Serving customers' carbon reduction	22	Compensation and benefits
4	Addressing climate change	23	Occupational health and safety
5	Green credit	24	Employee career development
6	Carbon asset trading	25	Employee well-being
7	Green office	26	Supporting national and capital strategies
8	Environmental management system	27	Rural revitalization
9	Pollutant emissions	28	Public welfare and charity
10	Resource conservation and recycling	29	Improving corporate governance
11	Ecological restoration and protection	30	Information disclosure and transparency
12	R&D and innovation	31	Scientific decision-making
13	Developing urban technology industries	32	Developing the Board of Directors in subsidiaries
14	Cultivating sci-tech innovation talent	33	ESG management
15	Intellectual property protection	34	Anti-corruption and fair competition
16	Quality management	35	Internal control and compliance management
17	Customer service	36	Risk prevention and control
18	Information security and privacy protection	37	Strengthening supervision
19	Supply chain ESG management	38	Deepening reform

### Honors

- BG ranked 6th in the list of "CSR Pioneer Index Top 100 SOEs (2024)" selected by the SASAC, **topping the Beijing-based SOEs.**
- BG was listed among the top 30 in China's Top 300 Enterprises by the CSR Development Index, securing the highest ranking among all **municipal SOEs in Beijing.**
- BG's exemplary CSR practice was selected as one of the **"Top Ten CSR Cases of State-Owned Assets and Enterprises" by the SASAC.**
- BEHL outperformed the industry average by a wide margin in the S&P Global Corporate Sustainability Assessment (CSA), achieving strong results in areas such as biodiversity protection, labor practices, customer relations, and information security, with scores **surpassing 80% of its industry peers.**
- BEWG has topped the **E20 Environmental Platform's "Top 10 Influential Water Enterprises" list** for 14 consecutive years and was **selected as one of the "Top 50 ESG Pioneers among Listed Companies in the Beijing-Tianjin-Hebei Region (2024)."**
- Beijing Yanjing Beer Co., Ltd. (Yanjing Beer) was **recognized as an ESG Model Enterprise in China's Alcohol Industry in 2023.**



▪ **Communication with stakeholders**

BG values communication and engagement with stakeholders. Based on factors such as day-to-day operations and management, topic relevance, and level of impact, the Group has identified and prioritized key internal and external stakeholders that significantly influence its development. ESG information is disclosed in a timely manner through official channels such as the Group's official website, social media accounts, internal publication *BG Zongheng Journal*, and ESG reports. The Group also strengthens interaction with investors by organizing performance briefings and investor meetings, thereby establishing a regular communication and oversight mechanism that responds to key stakeholder concerns and fosters consensus on sustainable development.



Tian Zhenqing, Chairman of BG, attended and delivered a keynote at the "ESG China · ESG Reporting Conference for SOEs in the Beijing-Tianjin-Hebei Region"

Stakeholders	Government	Shareholders	Suppliers	Customers	Employees	Media and NGOs	Communities	Environment
	Expectations and Demands	Compliance with laws and regulations Anti-corruption and upholding Increasing employment opportunities Legal tax compliance SOE reform	Good investment returns Improved corporate governance Strengthened risk prevention and control Strict information disclosure	Responsible supply chain Support industry development	Product quality management Customer rights and services Customer health and safety	Rights and interests protection Compensation and benefits Development and training Health and safety Work-life balance	Positive relationships Constructive interactions	Community co-development Public welfare and charity
Communication and Responses	Law-based operations Maintaining integrity Facilitating employment opportunities Increasing tax contributions Implementing SOE policies	Prudent operations Compliance management Strict audits Information disclosure	Strengthen supply chain management Deepen strategic partnerships Facilitate mutual exchanges and visits	Improving product quality Protecting customer rights and interests Optimizing customer service Refining the compliant mechanism	Safeguarding employee rights and interests Offering favorable compensation and benefits Ensuring workplace safety Promoting career development Caring for employees	Expanding publicity channels Visit and tour invitations Organizing communication and exchange events	Building harmonious communities Organizing volunteer services Supporting public welfare events	Developing new energy sources Sewage treatment Solid waste disposal Circular economy

## Deepening Reform: Innovating Systems and Mechanisms

Diligently fulfilling the requirements of the initiative to deepen and upgrade SOE reform, BG has taken a proactive and pragmatic approach to shoring up its weak links in corporate governance and core businesses. The Group has accelerated the integration of innovation elements and the release of their effectiveness, broadened and deepened the reform of market-oriented mechanisms, and continuously enhanced its value creation capabilities. These efforts aim to foster a virtuous ecosystem in which reform initiatives advance in synergy and innovation momentum continues to grow.



## Giving Back to Society: Building a Better Life Together

### Strengthening supply chain management

In 2024

The Group reviewed a total of **8,760** suppliers

**341** potential suppliers were disqualified due to non-compliance

ESG training was provided to **2,138** suppliers

A total of **179** ESG training sessions were conducted for suppliers

A total of **335** hours of ESG training was provided to suppliers

Committed to the philosophy of serving the community with dedication and thoughtfulness, BG has consistently strengthened supply chain management while advancing its own development, taking the lead in driving industry progress. The Group has actively participated in philanthropic causes and volunteer services, contributing to social harmony through charitable initiatives. Through ongoing efforts to advance high-quality livelihood projects, the Group ensures the provision of essential public services, while striving to bring greater warmth and well-being to industry peers and the wider community.

BG incorporates ESG factors as key criteria for supplier selection, qualification review, and evaluation. The Group regularly conducts supplier due diligence and performance assessments, continuously reinforcing responsible procurement practices. By deepening strategic cooperation with industry partners and promoting mutually beneficial collaborations among upstream and downstream partners in the industrial chain, BG strives to build a responsible supply chain with strong resilience and sustainability.

#### Supply chain management

Beijing Gas formulated and implemented the Regulations on the *Management of Specialized Material Suppliers*. The Regulations fully standardize the management processes for supplier admission, evaluation, daily oversight, and annual assessment, aiming to enhance the Group's supply chain management and control capabilities. BEWG developed the *Regulations on Supplier Management of Beijing Enterprises Water Group Limited* and the Supplier Admission Review Form, establishing a comprehensive evaluation and review framework for suppliers across 28 specific dimensions, including R&D and design, environmental impact, ESG management systems, and product safety. Yanjing Beer prepared the *Management Measures for Production Material Suppliers of Yanjing Beer*, to enable full lifecycle management of suppliers.

#### Responsible procurement

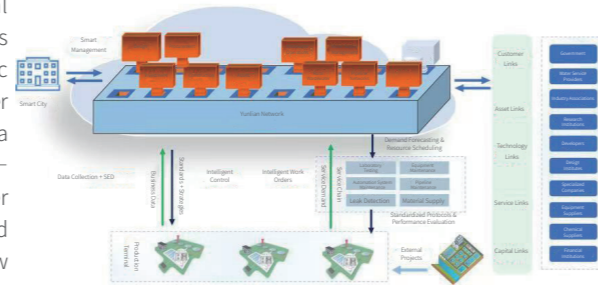
BIIC issued the *Interim Measures for Procurement Management of Beijing Instrument Industry Group and the Interim Measures for Intelligent Technology Procurement Management of BIIC*, to further standardize procurement management and advance the development of a responsible value chain. The Solid Waste Platform developed the *Implementation Rules for Centralized Procurement*, which clearly define the responsibilities and rights of each department in centralized procurement and require on-site inspections of major equipment suppliers to ensure a stable and reliable supply chain. BEWG has refined its green procurement strategy and actively promoted the concept of green procurement by prioritizing environmentally certified products and services. It has also increased the weighting of the "green factory" criterion in supplier evaluations, driving suppliers toward green transformation.



Yanjing Beer's digital and intelligent procurement and operations cockpit

**Case** BEWG's "Cloud-Chain-Terminal" smart operation paradigm supporting high-quality development of the industry

Centering on enhancing asset management efficiency in the water sector, BEWG has placed a strong emphasis on technological breakthroughs in water service-related big data and AI, model and algorithm applications, Internet of Things (IoT) and intelligent sensing, as well as industrial interconnectivity. By establishing a new "Cloud-Chain-Terminal" operation paradigm, BEWG is supporting the Group's deep transformation. By developing China's first industrial internet platform for the water sector, BEWG has built a full-process intelligent control model and simulation platform integrating mechanistic principles with data analytics, resulting in a leading smart brain for water management in China. BEWG has also achieved the deployment of a self-adaptive, industry-leading "dark factory" for water operations—an innovation that advances the high-quality development of the water sector. The "Cloud-Chain-Terminal" model has significantly improved the efficiency of social resource coordination, helping to foster new quality productive forces in the urban water sector.



Industry Connectivity Diagram

**Participating in public welfare and charity**

BG actively embraces its corporate social responsibilities, responding to public concerns through concrete actions. The Group has made significant efforts to advance philanthropic initiatives and contribute with genuine care. It has taken an active role in community development by establishing a sustainable volunteer service system, expanding its volunteer teams, and encouraging and guiding employees to participate in volunteer activities and engage in community building. In 2024, BG donated a total of RMB 10.8902 million to charitable causes. A total of 11,705 employee volunteer engagements were recorded, with cumulative service duration reaching 61,376 hours.



Award ceremony of the Mingxi Youth Award Programme (2024/25 academic year)



Students from paired support towns and villages invited to a home game of the BG Basketball Club

**In 2024**

BG donated a total of RMB **10.8902** million to charitable causes

A total of **11,705** employee volunteer engagements were recorded

**Improving people's well-being**

**In 2024**

Beijing Gas equipped **2.64** million households throughout the year

approximately **879** kilometers of pipeline networks were upgraded

surpassing the annual target of **609** kilometers

BG always prioritizes the interests of the people and is committed to promoting high-quality livelihood projects. Through a diverse set of measures—including the comprehensive renovation of aging residential communities, the upgrading and transformation of outdated pipeline networks, the development and construction of resettlement housing, and the expansion of healthcare and elderly care services—BG ensures that the essential needs of the public are met, injecting new vitality into urban development and striving to create a more livable environment for city residents.

- Gas safety renovation**  
Beijing Gas promoted the installation of gas safety components—including automatic shut-off valves and metal-sheathed gas hoses—for residential pipeline gas users in Beijing, equipping 2.64 million households throughout the year. The company also launched targeted inspection campaigns to inspect premises of users unavailable during routine checks, effectively enhancing gas safety. In addition, approximately 879 kilometers of pipeline networks were upgraded, surpassing the annual target of 609 kilometers and setting a new record.
- Urban renewal and transformation**  
Beijing Enterprises City Development Group Limited (BGCD) has advanced a diversified portfolio of urban renewal projects, participating in the comprehensive renovation of aging residential communities in Beijing.
- Resettlement housing construction**  
BGCD has meticulously undertaken the construction of the Yanqi Lake Resettlement Housing Project, carrying out centralized handover and signing activities. By 2024, the delivery of selected housing units was largely completed, improving the living conditions of relocated residents, enhancing the city's image, and driving regional development.
- Healthcare and elderly care services**  
Beijing Enterprises Group Health Industry Investment & Management Co., Ltd., in collaboration with Beijing Yiyang Technology Co., Ltd. (Beike Elderly Care), operates 16 community-based elderly care stations, one service station for the Bureau of Retired Officials, and two sub-district elderly care service centers. These facilities provide one-stop services for senior residents, supporting the transition from basic elderly care to quality elderly care.



Yanqi Lake Resettlement Housing Project

**Case** Smart elderly care—a sustainable solution for the silver economy

BGCD has supported Beijing's elderly care sector for 12 years. Leveraging big data and AI technologies, the company has expanded its presence in the smart elderly care sector, forming an elderly care service system known as "1+N+H." The system covers the entire digital and intelligent elderly care lifecycle, including industrial ecosystem development, think tank advisory services, solution design, and operations and maintenance. Through the "Internet + Elderly Care" model, BGCD has addressed the shortage of elderly care resources by delivering home- and community-based services through physical operations. This approach ensures that even seniors in remote areas have access to quality services. With a strong focus on last-mile services, the initiative has provided dynamic services to over 500,000 elderly individuals to date. BGCD is planning to develop a comprehensive smart elderly care ecosystem centered on home-based services, supported by communities, supplemented by institutions, and coordinated by the government. The ecosystem features a three-tiered standard service framework at the municipal, district, and sub-district levels, underpinned by a platform for smart elderly care that integrates services, operations, and supervision. This approach aims to address the pain points of the silver economy, offer sustainable solutions to an aging society, and drive the transformation of elderly care from targeted, fragmented services to a comprehensive, full-spectrum industry spanning the entire value chain and all application scenarios. As of the end of 2024, BGCD had built, renovated, and operated (including through partnerships) four elderly care facilities, offering a total of 970 beds and delivering high-quality home- and community-based services for the elderly.

"Urban Renewal + Elderly Care" high-quality demonstration projects

• **Hengyi Rehabilitation Home Project**

The first elderly care institution in Beijing jointly established by three state-owned enterprises. It is also a designated service provider for social insurance products offered by PICC Group, a cooperative institution with the China Rehabilitation Research Center, and a co-building partner of the Rehabilitation Medicine Department at China-Japan Friendship Hospital.



• **Guangxi Medical and Elderly Care Project**

Known as the first project to transform idle assets of a Beijing-based municipal SOE into a senior care facility, the first profit-oriented elderly care institution developed and operated by a Beijing-based municipal SOE, one of the initial pilot institutions for TCM-based healthcare and elderly care approved by the Beijing Administration of Traditional Chinese Medicine, and a recognized facility for medical-elderly care integration by the Ministry of Civil Affairs.



• **Jingyuan Road Medical and Elderly Care Project**

As the first elderly care project in Beijing developed on land designated for such use through negotiated transfer, and the first nursing facility in Beijing to be included in the medical insurance system, it was selected as one of the "Top 10 Healthcare and Elderly Care Projects under Healthy China Initiative."



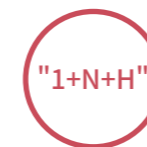
• **Dajia Home · Beijing Fuwai Chengxin Community Project**

In collaboration with Dajia Insurance, BG developed the "Dajia Home · Beijing Fuwai Chengxin Community," which features medical facilities such as a cardiac rehabilitation center and TCM services. The community is equipped with recreational spaces and a rooftop garden, offering professional services such as physical care and dementia care.



"1+N+H" elderly care service system

Facts about BG



- 1 centralized elderly care institution
- N community-based elderly care service centers and stations
- Various HOME-based elderly care services



**Case** Taoranting Hengyi Project creating an innovative healthcare and elderly care service complex

The Taoranting Hengyi Project has pioneered the development of a healthcare and elderly care service complex, extending its service capacity from institutional care to community- and home-based care. It adopts a large-scale, innovative development model that integrates institutions, communities, and homes and combines medical care, healthcare, and elderly care services. The community cafeteria at the Taoranting Subdistrict Elderly Care Service Center provides affordable, health-focused meals to residents within a 3-kilometer radius, serving approximately 200 person-times daily. It also offers a variety of medical care services, such as TCM assessments, meridian warming and circulation therapy, herbal foot bath therapy, and *Tui na* (Chinese therapeutic massage), delivering full-age lifestyle services across the surrounding area.



Interactive performance between the elderly and children



Healthcare and elderly care services – Hengyi Rehabilitation Home's respect-for-the-aged event

## 02

## Technological BG

Stimulating Vitality and Driving Growth

## BG's Solutions for Urban Sustainable Development

Beijing Enterprises Group regards technological innovation as the primary driver of its development. BG significantly increases its investment in research and development (R&D) to build strong technological capabilities, seizing the high ground of innovation. The Group focuses on digitalization as a key support system, enhancing new drivers of innovation, and harnessing talent as the "first resource." Through these efforts, BG aims to unleash intrinsic innovation potential and create a "Technological BG" with a well-established innovation system, leading technological capabilities, a concentration of scientific talent, and a strong innovation atmosphere.

## Active Response to SDGs



## Governance

- We have established a sound organizational system for technological innovation.
- We have standardized the full process management of information and digitalization projects within the Group.
- We have built BG's management and control platform.
- We have improved BG's data governance system.

## Actions in 2024

- We invested RMB **3.33** billion in R&D, an increase of RMB **380** million from the previous year.
- We had over **80** high-tech enterprises, including **4** specialized and innovative "little giant" enterprises.
- We held over **4,000** patents, including nearly **900** invention patents.
- We invested over RMB **1.3** billion in digital transformation.

## Plans for 2025

- We will build an open and collaborative technological innovation system with BG's unique characteristics.
- We will strengthen the development of a systemic innovation ecosystem.
- We will prepare a special plan for technological innovation, information, and digitalization for the 15th Five-Year Plan period.
- We will scale up efforts to advance the localization of key information technologies through the information technology application innovation sector.



## Story of Technological BG

### Innovative breakthroughs in core technologies powering the localization of semiconductor equipment

Beijing Jingyi Automation Equipment Co., Ltd. (Jingyi Automation Equipment) focuses on the R&D of semiconductor equipment as its core, establishing and continuously improving its system and mechanisms for technological innovation. The company steadily increases R&D investments and intensifies its technological innovation efforts, advancing the development of technological innovation platforms and promoting the commercialization of technological achievements. These initiatives have comprehensively enhanced its independent innovation capabilities, providing innovation-driven momentum for its high-quality development, and contributing to the country's goals of ensuring the security and sustainable development of the semiconductor industry chain.

#### Improving innovation mechanisms and increasing resource investment

Jingyi Automation Equipment has established a vertical and horizontal innovation model for product R&D, integrating vertical iteration of product development with horizontal R&D support. The company has developed a four-tier innovation mechanism, progressing through in-depth basic research, core technology development, product diversification, and continuous expansion into new fields. This approach combines experimental science with virtual verification in a "double helix structure." Moreover, the company strengthens laboratory management and fosters innovative R&D technologies, ensuring the implementation of scientific research results.

#### Breaking through core technologies and promoting product innovation

Jingyi Automation Equipment focuses on the R&D, production, and sales of semiconductor equipment. The company innovates key technologies and industrial applications for semiconductor-specific process gas treatment equipment, semiconductor equipment front-end modules, and temperature control equipment dedicated to high-end chip manufacturing. These efforts continuously enhance the company's core technological capabilities in semiconductor equipment, maintaining product competitiveness and further increasing its market share. For example, the wafer transfer equipment can achieve a wafer transfer efficiency of over 300 wafers per hour, reaching internationally advanced levels and advancing the localization of semiconductor equipment.

#### Building innovation platforms and deepening industry-academia-research integration

Through university-industry collaboration and deep integration of industry, academia, and research institutes, Jingyi Automation Equipment has launched cooperation projects with top-tier domestic universities. These projects focus on cutting-edge topics such as low-temperature systems, low-temperature materials, and advanced corrosion protection technologies. By effectively utilizing the research resources and expertise of universities, the company accelerates product upgrades and technological innovation.



All-in-one process waste gas treatment equipment for semiconductor applications

## System Optimization: Fostering Innovation Momentum

BG is actively advancing its overall strategy for science and technology innovation by reinforcing the innovation-driven development strategy. The Group continuously improves its innovation management mechanisms, leveraging key technology-based enterprises and high-level innovation platforms to steadily enhance the transformation of innovation outcomes and inject strong momentum into corporate development.

### Mechanisms for technological innovation

BG has established an open and collaborative innovation system with BG's unique characteristics, deeply integrating government, industry, academia, research, finance, services, and end-use applications. This system is structured around the Group's strategic direction, supported by a strong talent pool, led by enterprises, and bolstered by innovation platforms and technology incubators, with major technological innovation projects at its core. In 2024, the Group strengthened its top-level design for technological innovation by establishing the Technology Innovation Department and introducing dedicated policies, such as the *Measures for Technological Innovation Management* and the *Implementation Rules for the Special Fund for Technological Innovation*, thereby enabling coordinated management of technological innovation. The Group released the *Three-Year Action Plan for Technological Innovation of Beijing Enterprises Group (2023-2025)* along with a task list. It has organized affiliated enterprises to benchmark and report on key performance indicators in line with the task list, ensuring the implementation of technological innovation tasks and requirements while reinforcing the guiding role of innovation plans. Closely following technological development trends and national policy directions, BG has actively expanded its presence in strategic emerging industries, such as new energy, green environmental protection, and high-end equipment, as well as future-oriented sectors, including hydrogen and energy storage. In 2024, the Group invested RMB 3.33 billion in R&D, an increase of RMB 380 million year-on-year.

In 2024

The Group invested  
RMB **3.33**  
billion in R&D

an increase of RMB  
**380** million  
year-on-year



BG holds the Inaugural Conference of the Association for Science and Technology of Beijing Enterprises Group Company Limited and the "14th Five-Year Plan" Technological Innovation Achievements Release Conference

By 2024

The Group had more than **80** high-tech enterprises

**4** specialized and innovative "little giant" enterprises

over **30** small- and medium-sized enterprises (SMEs) that specialize in niche sectors

## Building innovation platforms

BG is committed to accelerating the development of innovation platforms and the pooling of resources. The Group has established its Association for Science and Technology and formed its first committee, while promoting the establishment of in-house associations across major affiliated enterprises such as BIIC, BMEDI, BEWG, and Yanjing Beer, amplifying the multiplier effect of science and technology innovation. Externally, BG has connected with various innovation actors and explored collaborative models among industry, academia, and research institutes, and initiating or participating in organizations focused on collaborative innovation, such as industrial alliances, technology alliances, and industry associations, thereby fostering a collaborative innovation ecosystem. Internally, led by the development of benchmark incubators and sci-tech industrial parks, BG has promoted the integrated and concentrated development of enterprises inside and outside the incubators with the Group's industries in the areas of technology, industry, and capital. Key technology-oriented enterprises are encouraged to focus on core businesses while expanding their innovation capacity. By 2024, the Group had more than 80 high-tech enterprises, 4 specialized and innovative "little giant" enterprises, and over 30 small- and medium-sized enterprises (SMEs) that specialize in niche sectors. The Group had also established over 30 innovation platforms and led or participated in the establishment of more than 140 collaborative innovation organizations, including industry alliances, technology alliances, and industry associations.

Honors



- BIIC was appointed to lead Beijing's efforts in building an original technology source for high-end equipment manufacturing. Its subsidiary, Jingyi Automation Equipment, received the **"Top 10 Domestic Semiconductor Equipment Enterprises Award 2024."**
- Beijing Gas and BERE won the **Second Prize of the Beijing Science and Technology Progress Award.**
- BMEDI was recognized as a **Leading Enterprise in Intelligent Construction in Beijing.**

## Enhancing R&D for key projects

In 2024

The Group launched four national-level projects

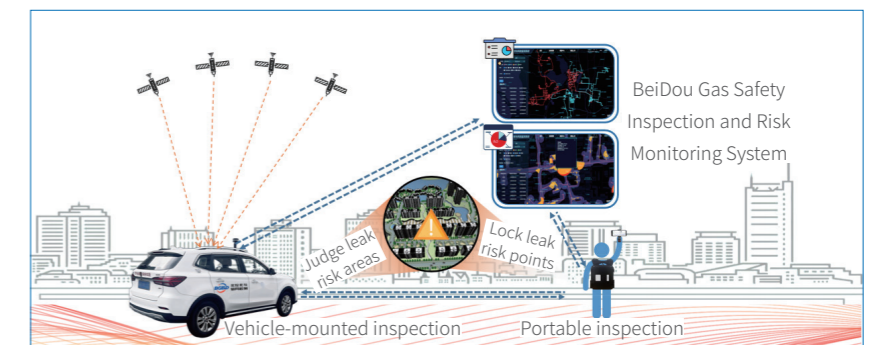
and over **10** provincial- and municipal-level projects

BG focuses on accelerating breakthroughs in core technologies to strengthen its innovation sourcing capacity and improve both original and applied innovation capabilities. In 2024, the Group's affiliated enterprises launched four national-level projects and over ten provincial- and municipal-level projects, covering fields such as gas, environmental protection, intelligent equipment manufacturing, and urban development.

- Beijing Gas**  
The company achieved multiple technology commercialization and applications, including the deployment of a large-scale AI model for intelligent inspection and hazard identification, launching a new era of digital and intelligent inspections.
- BIIC**  
Four products, including gas chromatographs, have achieved internationally advanced standards, with one product being the first of its kind globally.
- Beijing Enterprises Environment Group Limited (BE Environment)**  
The group made significant progress in co-processing sludge using incinerators. Its sludge flue gas drying technology was officially put into operation in the Harbin project, establishing a leadership position in the domestic industry.

## Transforming innovation outcomes

BG has established a *List of Major Technological Innovation Achievements* and held a technological achievements release event to promote innovation results and expand commercialization channels. The Group encourages the application of outstanding technological achievements for various scientific and technological research awards, and actively supports the development of competitive new technologies, products, and processes to facilitate breakthroughs in key fields of technology and strengthen its core competitiveness. From 2023 to 2024, BG received nearly 30 science and technology awards at various levels.



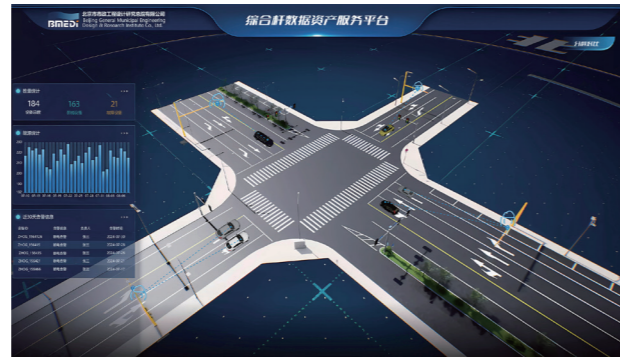
BG BeiDou Technology Investment Co., Ltd. (BGBD) has developed high-precision gas leak detection equipment and supporting software. For the first time in the industry, BGBD has proposed a "three-in-one" comprehensive solution for gas pipeline leak risk detection and assessment, combining PPB-level vehicle-mounted rapid inspection, PPB-level portable precise verification, and the BeiDou Gas Safety Inspection and Risk Monitoring System.



Shan-He-Wan-Gu Innovation Zone Pilot Area settled in BG's Sci-Tech Innovation Park

**Case** Integrated "Vehicle-Road-Cloud" solution

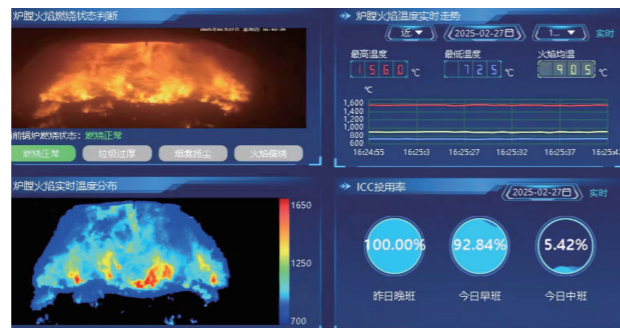
In 2024, BMEDI advanced the nationwide development of the integrated vehicle-road-cloud project for intelligent connected vehicles (ICVs). The project deeply explored key issues such as the vehicle-road-cloud technological and industrial closed loops. Adhering to the principles of layered decoupling and cross-domain sharing, BMEDI promoted the seamless alignment of vehicle-road-cloud integration with smart city development. Key outputs included the *Demand-Driven, Data-Powered Vehicle-Road-Cloud Integration Solution*. The research findings were applied to the Beijing High-Level Autonomous Driving Demonstration Zone project and the Hainan Provincial Vehicle-Road-Cloud Integration Pilot Project for ICVs, achieving efficient collaboration between vehicle, road, and cloud systems, while improving traffic operation efficiency and the safety and reliability of autonomous driving.



Integrated Pole Data Asset Service Platform

**Case** Next-generation AI-powered combustion control system for waste incinerators

BE Environment has developed a next-generation AI-powered combustion control system for waste incinerators, drawing on extensive boiler operation and management experience. The system incorporates cutting-edge big data analytics and machine learning technologies, along with key technologies such as the "3T+E" control principle for waste incineration, flame imaging-based temperature measurement, and combustion status diagnosis, offering an intelligent control solution for the entire process of high-ratio mixed-waste co-incineration. Successfully deployed at the BE Environment Haidian Project, the system achieved an operational uptime of 97% on a 24/7 basis, significantly improving combustion stability and reducing fluctuations in key indicators such as average furnace temperature, oxygen content, and main steam flow. The solution provides strong support for the efficient mixed-waste incineration of various types of waste in municipal solid waste plants.



ICC system operation dashboard

**As of the end of 2024**

BG held over  
**4,000**  
patents of  
various types

including nearly  
**900**  
invention patents

**Intellectual property management**

BG actively advances the commercialization of intellectual property and the adoption of technical standards to reinforce its leading position in the industry. The Group has launched a dedicated initiative for supplementary trademark registration and protection, aiming to establish an integrated, automated, and intelligent trademark management platform. Technology-oriented subsidiaries such as Jingyi Automation Equipment have implemented comprehensive intellectual property compliance management across the entire R&D-production-sales process, and obtained ISO certification. As of the end of 2024, BG held over 4,000 patents of various types, including nearly 900 invention patents.

**Tackling Key Challenges: Empowering the Future with Digital Intelligence**

**In 2024**

BG's investment in digital transformation exceeded RMB **1.3** billion

with the value-added contribution of the digital economy increasing by **11.6%** year-on-year

BG focuses on driving future development through digital intelligence, advancing its digital transformation efforts, and comprehensively planning for digital infrastructure. Through these efforts, the Group aims to promote deep integration of the digital economy with traditional industries, drive R&D of a range of innovative digital technologies and products, and nurture new quality productive forces.

**Enhancing digital management and control capabilities**

BG has formulated the *Action Plan for Digital Transformation* to comprehensively advance the development of the "1+4+N" digital architecture. The Group has also issued the *Implementation Rules for IT and Digital Project Initiation* to standardize the end-to-end management of the Group's IT and digital projects, and completed the *Top-Level Design and Data Governance Plan for BG's Data Middle Platform* to enhance data application and service capabilities throughout their lifecycle. A refined digital value evaluation system has been developed to facilitate scientific, accurate, and regular assessments of digital value. Moreover, BG has built an internal management and control platform to advance multiple IT systems and projects, such as the media library editing and review system, Phase II of the investment platform, and the "One Company, One Screen" initiative. An expert pool for informatization and digitalization has been established to provide professional support for the project approval and proposal evaluation of key projects within the Group. In 2024, BG's investment in digital transformation exceeded RMB 1.3 billion, with the value-added contribution of the digital economy increasing by 11.6% year-on-year.

**"1+4+N" digital architecture**

**Facts about BG**

- Strengthen the "1" digital foundation of the "SOE Cloud." Further enhance the service capabilities and level of the "SOE Cloud," fully leverage its supporting role in the Group's digital transformation process, and empower the digital transformation and development of enterprises.
- Optimize the "4" areas of digital capabilities. Focus on advancing 25 key projects in four areas: digital management and control, industrial digitalization, digital industrialization, and data value realization, to comprehensively elevate the Group's digitalization level.
- Implement "N" digital application scenarios. Focus on over 100 application scenarios in fields such as energy, environmental protection, and urban technology, to promote the integration of digital technology with traditional industries, and provide new momentum for the Group's development.



## Digital and intelligent innovation achievements

Leveraging its abundant application scenario resources and collaborative advantages of comprehensive urban operation services, BG utilizes digital technologies to drive the development of the digital economy and promote the transformation and upgrading of traditional industries. In 2024, the industrial ecosystem of the "SOE Cloud" began to take shape, enabling over 50 SOEs to migrate to the cloud. A total of 26 systems—including the Group's portal and data middle platform—successfully went live. The Group delivered a series of digital products, such as digital twin smart heating solutions and integrated smart solutions for plant, network, and river systems. BG also introduced China's first source data service platform centered on the application of BeiDou technology, along with multiple solutions, including high-precision gas pipeline leak detection and assessment, and structural health monitoring for expressways, also based on BeiDou technology.



Overview of BG's Digital Management and Control Platform



BG BeiDou New Energy Station Drone Autonomous Inspection Platform



BBEG's Nuanshu Full-Stack Autonomous Smart Heating Platform



Nuanshu Intelligent Heating Management Cloud Platform

### Accelerating the development of the digital economy

We clearly defined 116 representative digital application scenarios and 89 key projects, driving industrial digitalization and digital industrialization through application scenarios; and compiled a list of "AI +" projects, resulting in over 10 key AI projects.

### Activating the potential of digital elements

We participated in the efforts of building a pilot zone for basic data regulation in Beijing, aiming to unlock the potential of data elements, accelerate data sharing, and shift data from being a resource to an asset and capital, thereby unlocking the multiplier effect of data on digital transformation.



### Advancing the progress of information technology application innovation

We built a new digital infrastructure architecture for the Group's internet and information technology, providing concentrated internet and information infrastructure for the localization of key information technologies; and carried out centralized procurement of IT application innovation terminals for the Group and its subsidiaries, reducing procurement costs by approximately 13% compared to the average terminal price in 2023.

### Strengthening information system support

We achieved unified and centralized operation and maintenance for the Group, enhanced the comprehensive support capabilities of overall information systems, and completed the upgrade of the Group's video conference system's dedicated lines and equipment, providing a more efficient and eco-friendly meeting model.



BGSC attends the Global Digital Economy Conference, where it releases the "SOE Cloud" innovation results

**HONORS**

- BGSC's source data service platform was selected as a **"Typical Case of BeiDou Spatial and Temporal Information Innovation Application in Beijing"** at the forum on Constructing a New Digital Infrastructure with BeiDou Spatial and Temporal Information, part of the Global Digital Economy Conference 2024.
- BGSC's "BeiDou Ground-Based Precision Data Element Circulation and Integration Application Project" and BG Digital Tech's "SOE Data Sharing Platform Project" each won **the Second and Third Prizes, respectively, in the Technology Innovation Track of the 2024 Beijing "Data Element ×" Competition.**



## Talent Aggregation: Supporting Sci-Tech Innovation Development

BG has implemented multiple measures through a "selection, cultivation, management, and utilization" approach to unlock the entrepreneurial potential of talent through institutional innovation. By focusing on key scientific and technological projects, BG fosters the development of critical technical talent, actively exploring diversified industry-education integration. This enhances the Group's talent recruitment and cultivation efforts, promoting a vibrant flow of talent.

## Talent-driven strategy to build a strong enterprise

BG has thoroughly implemented a talent-driven strategy to build a strong enterprise by improving the talent recruitment system and regularly reviewing and updating the *Strategic, Forward-Looking, and Pioneering Talent Shortage Directory*. This clarifies talent introduction standards, processes, and management requirements, thereby enhancing the quality and effectiveness of talent recruitment.



- Beijing Gas**  
The company has promoted the establishment of postdoctoral research stations, broadening talent introduction channels through technology and continuously improving the quality of talent.
- BIIC**  
The group has advanced the talent-driven plan to build a strong enterprise by introducing diverse talent, including chief engineers, deputy general managers, project leaders, R&D experts, and heads of key departments.
- BMEDI**  
BMEDI has issued the *Implementation Measures for the Introduction of Excellent Technological Talent* to build a high-end talent expert team and a mature technology-oriented talent team with significant industry influence.

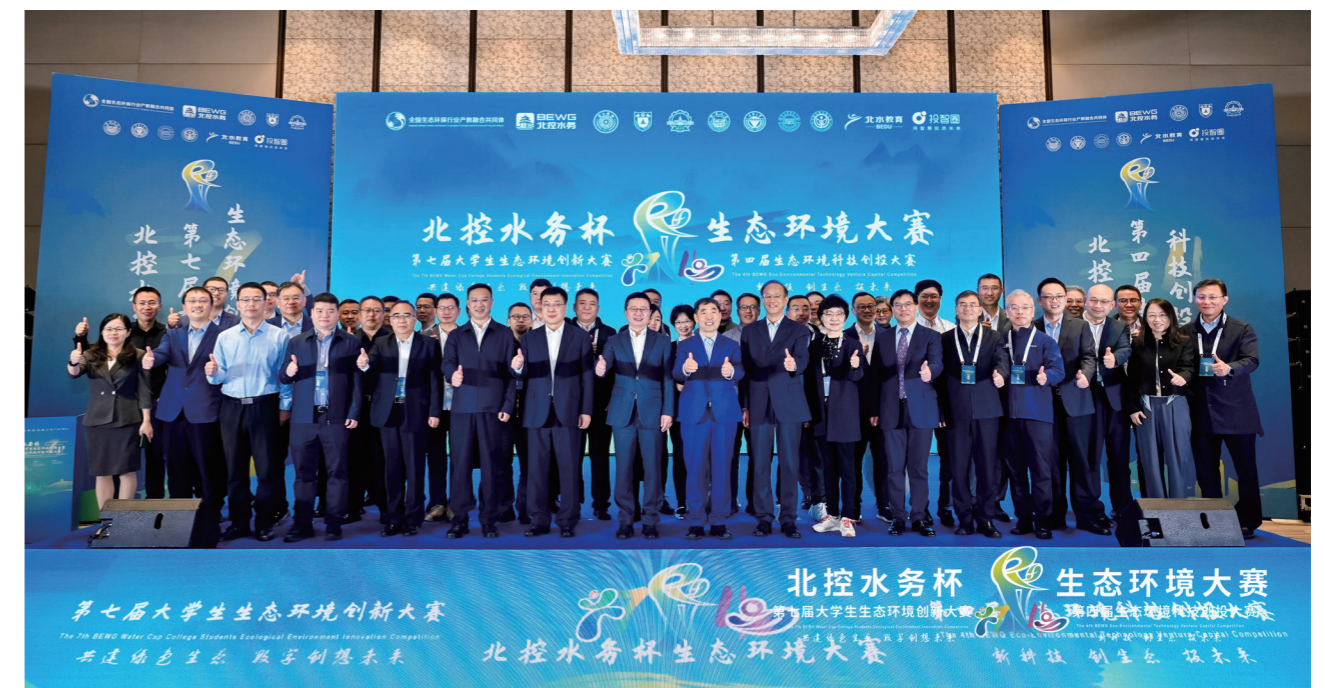
## Sci-tech talent cultivation

BG has developed an Internal Talent Market Development Plan to improve talent "reserve pools," "empowerment pools," and "transition pools." The Group has also established a talent recruitment and publishing platform, and offers mid- and long-term incentives such as equity incentives for research personnel. Focused on major projects and key initiatives, the Group leverages technological master workshops to deepen talent specialization and support the rapid development of young technological talent.

- BMEDI**  
BMEDI recommends talent at all levels to participate in high-end talent project applications, with 12 individuals receiving various talent project awards, such as Shield Craftsmanship, Beijing Road Excellent Engineer, and Beijing Road Youth Science and Technology Award.
- BIIC**  
BIIC has released the *Implementation Plan of BIIC for Encouraging the Recruitment of Doctors into Postdoctoral Research Stations (Trial)*, and established a talent training incentive scheme to provide data support for the recruitment of high-grade, precision, advanced, and lacking talent.

## Diversified industry-education integration

BG actively promotes coordination among industry, academia, research institutes, and end-use applications. In collaboration with prestigious institutions like Zhejiang University and Tsinghua University, the Group is preparing to establish joint laboratories and high-level innovation platforms. The Group has also made concerted efforts to tackle technological challenges, and engaged in research such as National Natural Science Foundation (NSFC) funded projects, thereby enhancing overall scientific research strength and capabilities. Moreover, the Group has organized a variety of activities such as innovation competitions and venture capital contests to build an open and cooperative innovation ecosystem.



The 7th BEWG Cup College Students Ecological Environment Innovation Competition concluded successfully



# Green BG

## Promoting Greening and Decarbonization

### BG's Solutions for Urban Sustainable Development

Beijing Enterprises Group earnestly implements Xi Jinping's Thought on Ecological Civilization and integrates the principles of green and low-carbon development into its corporate strategy. The Group is comprehensively advancing its green and low-carbon transition, assisting clients in achieving carbon reduction goals, and actively addressing global climate change challenges. BG continues to strengthen pollution control and environmental management, vigorously promotes efficient and circular resource utilization, and actively engages in ecological restoration and conservation. Seizing the historic opportunity of green development, BG meaningfully contributes to China's and Beijing's "carbon peaking and carbon neutrality" ("dual carbon") goals, working toward a more beautiful and sustainable future, and building a "Green BG" with distinctive green foundations, deeply rooted low-carbon concepts, and efficient, intensive use of resources.

### Active Response to SDGs



### Governance

- We have strengthened the climate change response management system.
- We have enhanced the development of environmental protection rules and regulations.
- We have established mechanisms for environmental risk management and control, as well as hazard inspection and governance.

### Actions in 2024

- Our installed renewable energy capacity reached nearly **800 MW**, with renewable energy generation exceeding **3 billion kWh**.
- We treated approximately **5.83 billion tons** of wastewater, maintaining a **100%** wastewater compliance rate, with both core indicators among the best in the industry.
- We built an "**N+1+X**" hydrogen energy supply system.

### Plans for 2025

- We will continue to improve environmental protection and governance capabilities.
- We will increase efforts in the adoption and utilization of renewable energy.
- We will explore innovative technologies such as carbon capture, utilization, and storage (CCUS), emerging pollutant control, and ecological restoration.
- We will improve the standards and incentive mechanisms for clean production.



# Story of Green BG

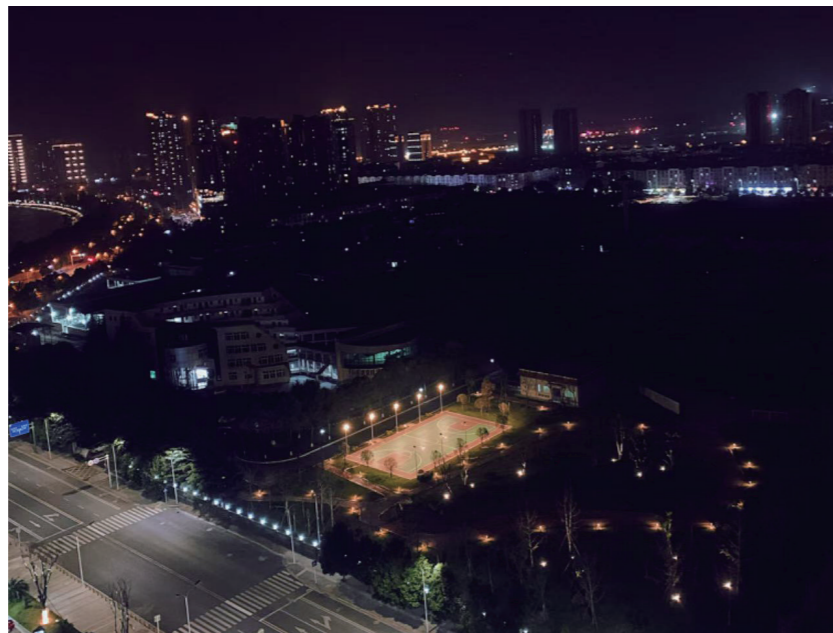
## A "dark factory" under the smart water operation mode

At nightfall in Mianyang, Sichuan Province, Mr. Li, an employee of BEWG at the Taziba Sewage Treatment Plant, finishes his shift, changes out of his work clothes, and heads home—free from the need to stay overnight or worry about equipment performance. Thanks to the intelligent alert system, he can now enjoy a peaceful evening. Though the Taziba plant may appear completely dark at night, its machinery continues to operate in perfect order. Domestic wastewater flows through coarse and fine screens, grit chambers, biological tanks, and secondary sedimentation tanks, before being discharged as clean water—some into the Fujiang River, and some reused for urban sprinkling and cleaning, green land irrigation, and ash and dust suppression as supplementary water. The Taziba Sewage Treatment Plant has established and implemented a digital operations management system, an intelligent sensing and control system, and a smart analytics and decision-making system. These systems deeply integrate new-generation information technologies such as water operation management and model algorithms, enabling

online intelligent sensing and monitoring of equipment status and production indicators, as well as precise early warning and alerts. This has significantly enhanced the level of intelligent process control, predictive maintenance management of equipment, and smart scheduling decision-making capabilities. It has greatly reduced employee labor intensity, creating a standardized and automated "dark factory," driving the intelligent transformation of the water industry.

Not only in Taziba, but also in water plants of multiple regions and clusters, such as Jiaozhou in Shandong Province

and Jinzhou in Liaoning Province, BEWG is making continuous efforts towards the "dark factory" goal through intelligent systems and smart management. In parallel, with a focus on improving the operational efficiency of existing assets, BEWG is actively exploring the reform of new water plant management models, shifting from a "single-plant management" model to a "regional intensive management" model. This is driving the industry to further enhance its digitalization and intelligence levels, and build a "Cloud-Chain-Terminal" industrial interconnection platform for the water industry.



Nighttime operations at BEWG's Taziba Sewage Treatment Plant in Mianyang, Sichuan Province

## Green Transition Driving Carbon Reduction in Different Industries

### Carbon reduction in manufacturing

BG follows the mission of "serving the country's carbon peaking and carbon neutrality strategy and promoting sustainable urban development for a better city" and the vision of "becoming a world-class modern urban service provider." With technological innovation as the guide, the Group fully leverages its technological and industrial advantages to accelerate the green and low-carbon transformation and upgrading of its industries.

#### Yanjing Beer

**For energy conservation and efficiency improvement:** Yanjing Beer has established the *Yanjing Beer Glass Bottle Management Regulations (Trial)*, which standardize the management of beer bottles. The system requires that damaged bottles be classified by color during sorting and production, and that they be stored separately. Additionally, through an annual bidding process on the RMS platform at the headquarters, waste materials such as glass fragments are directly sent back to glass product companies for recycling, thereby effectively improving resource utilization and reducing the cost of purchasing new bottles.

**For renewable energy application:** Yanjing Beer has actively introduced renewable energy technologies such as solar energy and biomass energy. A solar photovoltaic power generation system has been installed on the factory roof to provide electricity for some production processes and office areas. Biomass waste generated during brewing is converted into biogas through anaerobic fermentation, which is then used as boiler fuel or for power generation, reducing reliance on traditional fossil fuels and lowering carbon emissions.

#### BIIC

**For energy conservation and efficiency improvement:** Beijing Jingyi North Instrument Co., Ltd. (Jingyi North Instrument), a subsidiary of BIIC, independently developed a "Dual Carbon" Energy Service Platform. Based on an energy metering network and unified IoT access platform, the platform measures and collects data on various energy sources such as electricity, water, gas, and heat. It offers functions such as data monitoring, energy efficiency analysis, energy consumption diagnosis, energy dispatching, energy-saving optimization, carbon emission management, and multi-dimensional reporting. This helps public institutions, smart parks, and industrial enterprises enhance energy management efficiency, reduce energy consumption costs, and achieve the dual control of both total energy consumption and energy consumption intensity, as well as carbon peaking and carbon neutrality goals.

**For renewable energy application:** BIIC has actively introduced renewable energy and promoted the construction of the photovoltaic project at the Jingyi Chunshu Rectifier Industrial Park. The project intends to implement a 150 kWp photovoltaic power station on the rooftops of buildings within the park. Upon completion, the project is expected to generate 170,000 kWh of electricity annually, further increasing the share of clean energy in the energy mix.



Jingyi North Instrument's Digital Energy Visualization Platform

## Carbon reduction in buildings

**BERE**  
BERE has developed China's first integrated training center compliant with the "K8 Standard," incorporating green technologies with features such as "ultra-low energy consumption" and "near-zero carbon emissions." It has also initiated asset revitalization projects and formulated the *Implementation Plan for the Beijing Green Technology Innovation Service Industrial Park Project*.

**BIC**  
Beijing Jingyi Technology Incubator Co., Ltd. (Jingyi Technology Incubator) has carried out building insulation upgrades to improve thermal performance and reduce heating and cooling energy consumption. Energy-efficient and environmentally friendly materials are used in park upgrading, renovations, and maintenance to lower the overall energy consumption of buildings.

## Carbon reduction in the production and supply of water, electricity, and heat power

**BBEG**  
BBEG has carried out data collection, monitoring, and reporting of energy consumption and carbon emissions to enhance its energy consumption and carbon emissions accounting capabilities. The company has conducted statistical analysis of key energy consumption and emission links, identified potential opportunities for reduction in both energy use and emissions, and explored a carbon footprint verification mechanism for industrial and consumer products. Driven by business development, BBEG aims to strengthen its fine management capabilities of carbon emissions.

**BEWG**  
BEWG, in line with its business characteristics, has developed internal management systems such as the *Low-Carbon Operation Management Measures for Operational Projects*. It has adopted a lean energy efficiency management model to improve the group's overall energy management capabilities. During production and operations, BEWG has actively implemented measures for energy conservation, efficiency improvement, and energy recovery, and continuously explored renewable energy application scenarios to reduce energy consumption and greenhouse gas emissions.

## Clean and Eco-Friendly Facilitating Energy Transition to Reduce Carbon Emissions

### Integrated energy

Beijing Gas vigorously expands the integrated energy market, focusing on key low-carbon and renewable challenges. It has conducted in-depth studies on the characteristics and potential of various renewable energy sources and systematically planned the coupled and coordinated development pathway of natural gas and new energy. By leveraging technologies, management, and markets, the company ensures that industrial growth runs on parallel lines with energy conservation and carbon emissions reduction, paving the way for a new integrated energy landscape under China's dual-carbon goals.

BG actively promotes the green and low-carbon development philosophy to accelerate the deployment of green energy. The Group explores multi-energy coupling application scenarios in the integrated energy sector, advances research into natural gas decarbonization technologies, and focuses on expanding the use of clean energy such as photovoltaics and hydrogen. These efforts aim to drive the R&D of clean energy technologies and contribute to the transformation of the energy structure. In 2024, the Group's installed capacity of renewable energy generation approached 800 MW, with renewable energy generation exceeding 3 billion kWh.

### Research on natural gas decarbonization

**Beijing Gas**  
The company carried out research projects, including the "Technical Pathway Analysis and Policy Recommendations for Beijing Gas Group's Integrated Energy Market Expansion under the Dual Carbon Goals" and the "Research on Mid-to-Deep Geothermal Technical Pathways and Business Models by Beijing Gas Group." It also took the lead in the development of the national standard *Requirements of the Greenhouse Gas Emission Accounting and Reporting - Part 48: Urban Gas Supply Enterprise*, continuously enhancing the group's capabilities in natural gas decarbonization research.

**BBEG**  
The Gas Thermal Power Engineering Design Institute undertook the research project titled "Natural Gas Reduction Development and Green and Low-Carbon Transition in Beijing" for the Beijing Municipal Commission of Development and Reform, assessing the current status of the city's natural gas usage and infrastructure development and offering practical recommendations, thereby supporting the realization of Beijing's dual carbon goals.

## Clean energy

### Beijing Gas

Concentrated on the application of new energy technologies, Beijing Gas has continued to expand into the new energy market and drive the high-quality growth of new energy businesses. In the hydrogen energy sector, the "N+1+X" hydrogen energy supply system passed expert evaluation and gained government support. For hydrogen blending demonstrations, the main construction of the gas-hydrogen blending experimental platform has been completed, with static testing conditions now in place. In the biogas grid connection field, the Asuwei demonstration project for biogas purification and grid connection is being advanced.

### BIIC

BIIC has continued to deepen the refined operation and management of photovoltaic power stations by introducing charging piles and energy storage business modules. Through the integrated energy intelligent management platform, it manages power generation, load, and energy storage facilities, effectively enhancing the flexibility and reliability of electricity use in the park. At the same time, Jingyi Ruiyuan's Yanqing Park has upgraded and renovated its rooftop photovoltaic project, significantly improving power generation efficiency. In 2024, BIIC's photovoltaic power generation reached 290,229,100 kWh, resulting in a carbon dioxide reduction of approximately 289,400 tons.

### BBEG

The Gas Thermal Power Engineering Design Institute's project "Taixing Xin'ao Gas Natural Gas-Hydrogen Blending Station in Jiangsu" has completed commissioning and trial operation. The project verified the adaptability of the gas pipeline network and users to hydrogen-blended natural gas, expanding the range of new energy applications. BBEG has signed contracts pertaining to several hydrogen energy and integrated energy projects. In 2024, new contracts for non-traditional energy projects achieved 414% of the annual target.



Successful commissioning of the low-pressure hydrogen blending demonstration project, a major scientific and technological project in Inner Mongolia undertaken by BBEG's Gas Thermal Power Engineering Design Institute

## Low-Carbon Projects Assisting Clients in Reducing Carbon Footprints

### R&D of low-carbon technologies and products

BG continues to strengthen R&D and application of core green and low-carbon technologies and products. The Group provides systematic low-carbon design and planning services to clients, promotes large-scale adoption of green technologies, and contributes to the formulation and implementation of low-carbon standards—all aimed at comprehensively supporting clients in achieving their decarbonization goals.

#### BEWG

BEWG has increased investment in R&D of low-carbon processes and control technologies and successfully developed a range of innovative low-carbon technologies and products, such as the dual-return sludge deep denitrification and phosphorus removal technology and the BEWG speedgrain technology, effectively reducing energy consumption and operational costs.

#### BE Environment

BE Environment invented the sodium bicarbonate dry method acid removal – sodium-based fly ash recycling regeneration NaHCO<sub>3</sub> technology, and developed an intelligent combustion control system for waste incineration,

supporting the green and low-carbon transition of the waste incineration industry.

#### BIIC

BIIC has embedded environmental protection indicators into product design, raw material selection, and R&D planning. Its independently developed "Dual Carbon" Energy Service Platform helps public institutions, smart parks, and industrial enterprises improve energy management efficiency, reduce energy costs, and achieve the dual control of both total energy consumption and energy consumption intensity, as well as carbon peaking and carbon neutrality goals.

### Honors



- BE Environment received **the 2024 Special Prize of the All-China Environment Federation Science and Technology Award.**
- The energy-saving and carbon-reducing technologies and equipment of Jingyi North Instrument, a subsidiary of BIIC, **were listed in the *National Catalogue of Recommended Energy-Saving and Carbon-Reducing Technologies and Equipment in the Industrial and Information Fields (2024)* by the Ministry of Industry and Information Technology.**
- The green technologies from BIIC, BEWG, and BE Environment were included **in the *Beijing Municipal Recommended Catalogue of Advanced Green and Low-Carbon Technologies (2024)* issued by the Beijing Municipal Commission of Development and Reform.**



Xiong'an No. 3 Hydrogen Refueling Station designed by BBEG

## Low-carbon design and planning

BMEDI has researched the "dual carbon" technical framework for road traffic infrastructure and developed a "dual carbon" intelligent management platform plan, implementing low-carbon design concepts. It has completed the development of green and low-carbon standards and specifications, including the national standard GB/T 50801 *Evaluation Standard for Application of Renewable Energy in Buildings* and the industry group standard *Technical Specification for Air Purification System of Urban Underground Road*, and officially released and implemented China's first *Low-Carbon Design Standard for Urban Comprehensive Passenger Transfer Hub*. BMEDI has undertaken multiple green and low-carbon infrastructure projects and actively worked on building national typical model projects, such as the "Green and Low-Carbon Benchmark Wastewater Treatment Plant," promoting ecological value conversion and safeguarding ecological harmony.



The road project of Chang'an Avenue West Extension (Sanshi Road–Gucheng Street), the New Shougang Bridge, the Gaoantun Sludge Treatment Center, and the Reclaimed Water Plant designed by BMEDI were awarded the **Tien-yow Jeme Civil Engineering Prize**.



BMEDI undertakes the first phase of the Dingjiawa Water Plant in Beijing, effectively preserving and replenishing regional groundwater resources



The integrated transportation hub project at the Beijing Sub-Center Station, designed by BMEDI, features an innovative application of mid-to-deep geothermal heat pump systems. This solution, combined with traditional urban heating networks, provides reliable heating and cooling sources while promoting the use of renewable energy.

## Practicing the "Dual Carbon" Goals: Addressing Climate Change

BG adheres to the concept of green and low-carbon development, systematically carrying out climate assessments and responses. The Group has implemented green credit and carbon asset management, promoted green office measures across affiliated enterprises at all levels, disseminated environmental protection knowledge, and comprehensively optimized the environmental performance across the organization.

### Climate change management system

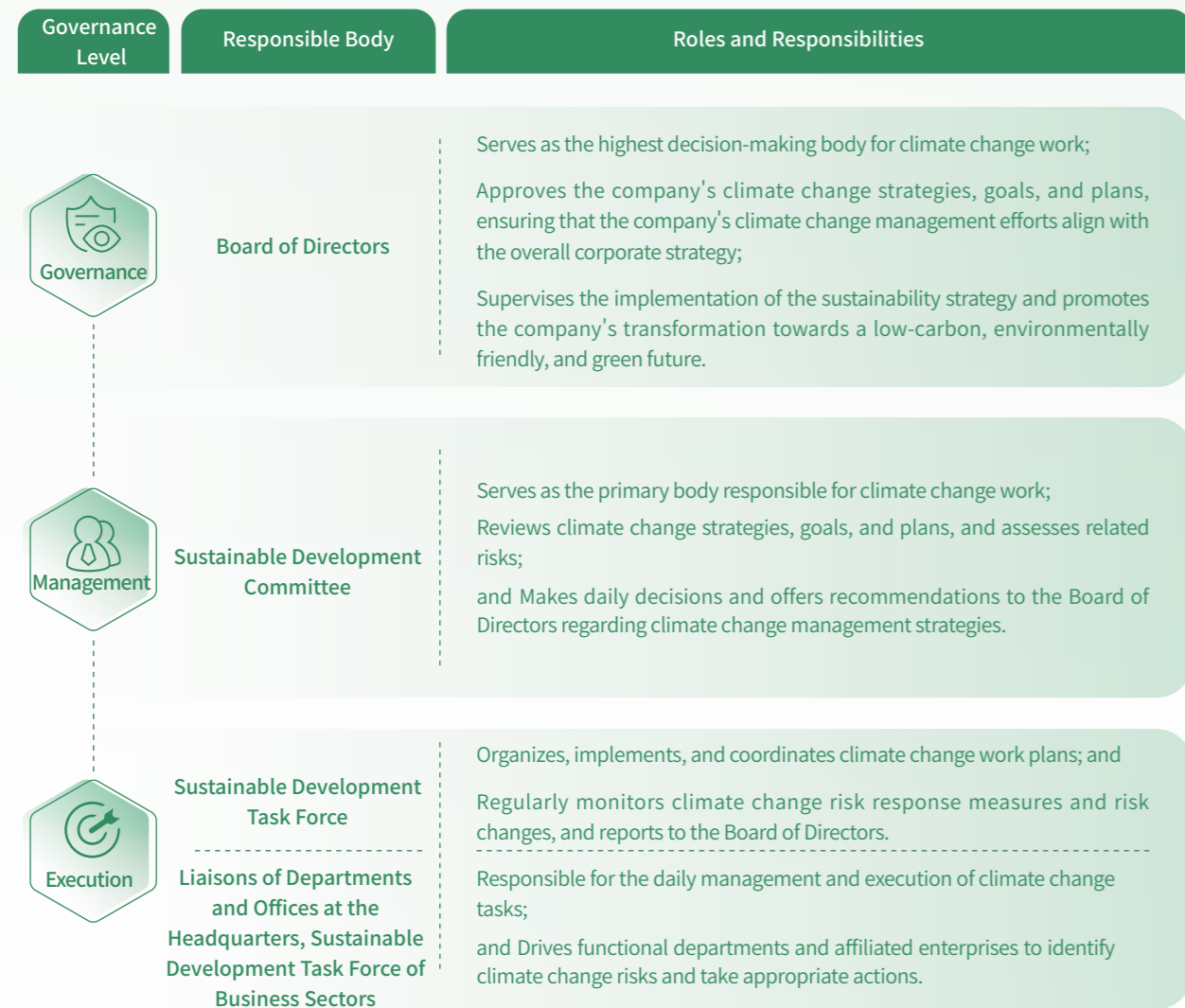
BG has formulated and implemented the Carbon Peaking Action Plan, clarifying the current status, action goals, and overall guidelines for the Group's "dual carbon" efforts. It outlines the action path for the collaborative development of energy transition, energy conservation, carbon reduction, and green environmental protection industries. The plan targets five major industry sectors—urban energy, urban environmental protection, urban consumption, urban technology, and urban property—deploying ten key tasks for industry development. Six green development elements, including technological innovation, digitalization, carbon trading, and green finance, have been identified. Four support measures—organizational planning, goal supervision, report disclosure, and talent cultivation—have also been established to provide institutional support for the Group's "dual carbon" efforts and help the capital city fully achieve the carbon peaking target.

**Case** Systematically identifying climate risks and opportunities to fully enhance climate resilience

BEHL deeply understands the significant impact of climate issues on its development strategy. It has actively built a comprehensive climate change risk management system and vigorously advanced low-carbon development strategies. Through scientific risk assessments, forward-looking response strategies, and innovative low-carbon technologies and models, the company reduces the impact of its operations on the environment and leads the industry towards a greener, low-carbon future.

- Governance**
  - BEHL has established a comprehensive climate risk management system at the corporate level and a three-tier governance framework in sustainable development encompassing the governance, management, and execution levels.
  - To advance climate change management, the company has formulated the *Climate Change Response Policy*, integrating climate change into its daily operations and viewing it as a crucial element of achieving sustainable development.

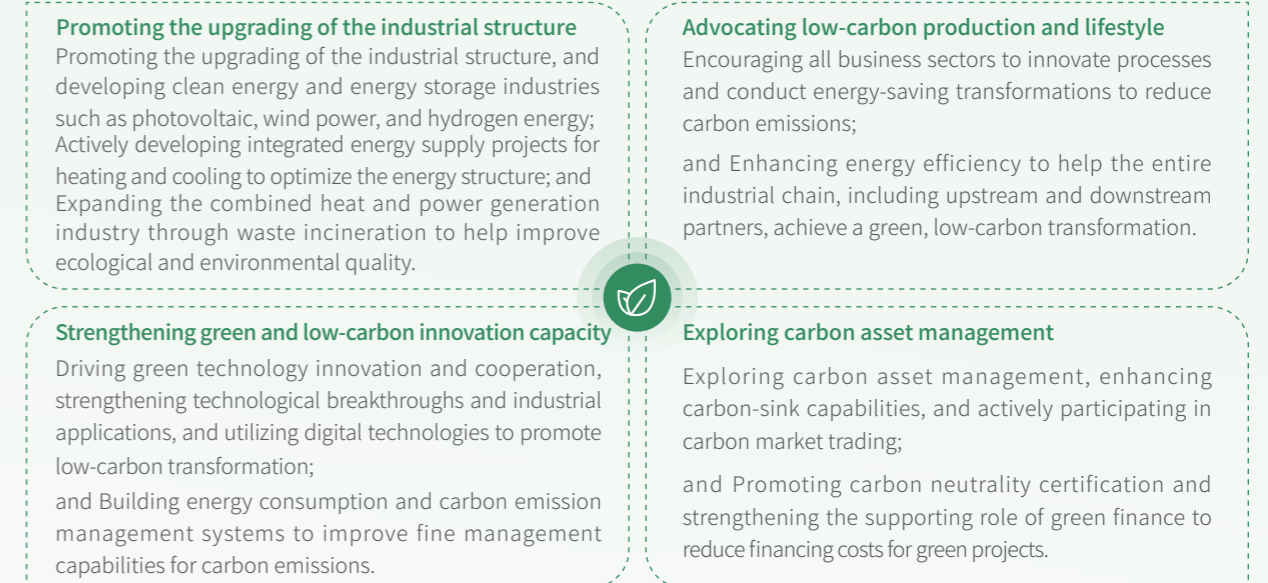
**Climate change governance framework**



**Strategy**

In response to the national "dual carbon" strategy, BEHL has developed the *Carbon Peaking Action Plan of Beijing Enterprises Holdings Limited*. A leading group for carbon peaking and carbon neutrality work has been established, and specific and feasible emission reduction measures and implementation paths have been developed in line with each business sector's realities, scientifically driving green, low-carbon transformation efforts.

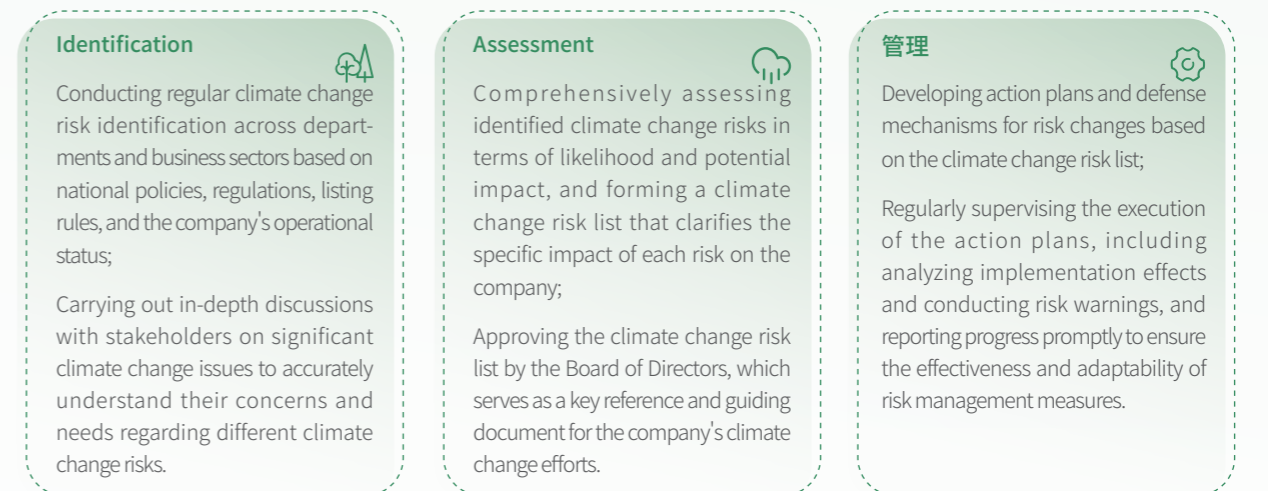
**BEHL's carbon peaking strategy**



**Risk management**

- BEHL integrates climate risks into its overall risk management system, using systematic tools and methods to regularly identify and assess climate risks and opportunities.
- BEHL conducts a comprehensive review of climate change risks and opportunities, deeply analyzes their impacts on operations, financial performance, and long-term development, and develops and implements targeted response strategies to strengthen risk prevention and control capabilities.

**BEHL's climate risk management process**



**Indicators and targets**

BEHL adheres to the sustainable development philosophy, making a commitment to reach its carbon peak by 2030 based on the company's strategic planning and the actual performance of its environmental indicators. At the same time, BEHL actively urges each business sector to accelerate progress and develop scientifically sound climate change management targets tailored to their specific business characteristics and realities.

## Leading the gas industry in addressing climate change

BG fully leverages its facility resources, customer base, and industry leadership in the urban energy industry chain to promote green and low-carbon cooperation in the international energy sector through industry-academia-research collaboration and by hosting or participating in industry exchanges. The Group plays a pioneering role in helping the gas industry address climate change. Beijing Gas has carried out climate change risk and opportunity identification and assessments, established response measures and key targets and indicators, and compiled national standards such as *Requirements of the Greenhouse Gas Emission Accounting and Reporting – Part 48: Urban Gas Supply Enterprise*, spearheading the industry in addressing climate change risks.

By 2024

BEGF has served  
**67** green credit  
enterprises

with a balance  
of green credit of  
approximately RMB

**4.537**  
billion.

### Promoting green credit

Beijing Enterprises Group Finance Co., Ltd. (BEGF) has increased its support for "Green Environmental Support Loans," opening green channels for manufacturing and technology-oriented enterprises, and promoting the development of green industries. By 2024, BEGF has served 67 green credit enterprises, with a balance of green credit of approximately RMB 4.537 billion.

### Carbon asset management

BBEG has established a corporate carbon market trading management mechanism and actively participated in carbon market trading. BIIC has strengthened its energy consumption and carbon emission management systems, and participated in carbon market trading to explore the supporting role of green finance.

### Green office practices for carbon reduction

BG and its affiliated enterprises actively implement smart office systems, advocating green office practices such as OA approval, double-sided printing, battery recycling, as well as multiple online working methods like video calls and digital screens. The Group strengthens resource conservation, including water and electricity, in daily office operations, thereby promoting energy- and cost-saving office practices, and working with employees to build a green, low-carbon workplace.

### Advocating green environmental protection

BG and its affiliated enterprises actively engage in promoting green environmental protection by organizing various activities, such as Energy Conservation Awareness Week and Low-Carbon Day. The Group also distributes energy-saving posters, manuals, and quiz sheets, and uses internal bulletin boards and digital screens to display environmental slogans and images. Small environmental tips are posted in office areas, and staff are educated on low-carbon and energy-saving practices.



## Energy Conservation and Emissions Reduction: Enhancing Pollution Control

BG strictly complies with pollution emission laws and regulations, strengthens collaborative efforts for pollution and carbon reduction, and carries out specialized pollution control actions in key production sectors. This includes effective management of waste gas, wastewater, and solid waste, ensuring that pollution emissions from the Group and its affiliated enterprises meet regulatory requirements and reducing the environmental impact of their business operations.

### Environmental management system

BG has continuously refined and improved its environmental protection rules and regulations, earnestly fulfilling its principal responsibility for environmental protection. The Group has developed an environmental risk management and control list and a hazard ledger, with targeted risk management and control measures and hazard investigation and remediation plans. Moreover, the Group has strengthened the supervision of enterprises emitting pollutants, with increased oversight of sectors prone to exceeding pollutant emission limits, such as heat supply, solid waste, and water treatment. Illegal and non-compliant behaviors are subject to rigorous assessment and accountability. Additionally, the Group has continually increased investment in environmental protection for the upgrade and renovation of equipment and facilities, thereby achieving green and sustainable development.



### Waste gas management

#### BBEG

The company has strengthened waste gas emission monitoring to ensure the proper operation of waste gas treatment facilities, promptly updated outdated equipment, and introduced more advanced waste gas treatment technologies to reduce waste gas emission concentrations.



### Wastewater management

#### Yanjing Beer

The company has invested in the construction and maintenance of modern wastewater treatment facilities, ensuring that wastewater is treated to standard before being discharged. It has also explored the use of treated wastewater for factory cleaning and irrigation, reducing reliance on fresh water resources.



### Waste management

#### Beijing Gas

Waste generated during project construction or renovation is disposed of by qualified professional agencies. The company retains waste disposal agreements or contracts and completes the *Pollution Disposal Registration Form* to ensure that waste meets the requirements for emission indicators.

#### Case

#### Closed-loop water recycling for snowmaking at the Yanqing Olympic Zone

To enhance the recycling of water resources, the National Alpine Skiing Center at the Yanqing Olympic Zone for Beijing 2022 constructed two ponds at elevations of 900 meters and 1,050 meters, and a reservoir at 1,290 meters. The snowmaking water intake system integrates the regulation and storage of reclaimed water, melted snow, and rainwater, forming a closed-loop system for snowmaking water. After the snow season, the ponds also serve to collect meltwater and rainwater. The water flows into the reservoirs through natural channels within the venue, where it is used for landscaping in the venue and snowmaking for the next snow season. This approach ensures maximum protection of water resources, setting a model for sustainable water use.



Ponds at the Yanqing Olympic Zone

## Resource Conservation: Advancing Circular Economy

### Water resource management

In 2024

BEWG has processed approximately

**5.83** billion

tons of wastewater maintaining a

**100%**

wastewater compliance rate

achieving a **9%**

reduction in industrial water consumption per unit of output in 2024 compared with 2020



BG adheres to the principle of green symbiosis in sustainable development, continuously intensifying efforts to conserve energy and resources. The Group strengthens energy-saving and water-saving management, enhances the recycling and reuse of packaging materials, and vigorously promotes the circular economy. These actions effectively improve the efficiency of energy and resource utilization and contribute to establishing an urban resource recycling system, accelerating BG's progress toward carbon peaking and carbon neutrality.

BEWG has processed approximately 5.83 billion tons of wastewater, maintaining a 100% wastewater compliance rate. The company strictly controls the use of reclaimed water, continuously optimizes production processes to reduce pipeline leakage, and strengthens the internal recycling of reclaimed water in sewage treatment plants. Beijing Gas strictly implements water recycling practices in its daily heating boiler operations, and has achieved a 9% reduction in industrial water consumption per unit of output in 2024 compared with 2020. BERE has installed water-saving faucets, showerheads, and other facilities to improve the water recycling rate. BEGF strengthens water-saving awareness campaigns, raising employees' awareness of water conservation and fostering a positive culture of collective water-saving across the organization.



BEWG has contributed nearly 53.6 billion tons of water resources globally



BEWG has topped the "Top 10 Influential Water Enterprises" list for 14 consecutive years

### Saving packaging materials

### Domestic waste classification

## Environmental Protection: Supporting Ecological Restoration

### Biodiversity conservation

Yanjing Beer continues to optimize packaging materials, reducing the use of packaging materials and enhancing their recyclability and reusability. Priority is given to lightweight materials during selection. With an established waste bottle recovery management system, the company has aggressively recycled beer bottles. These bottles, after sterilization and cleaning, are reused to replace new glass bottles, thus reducing resource waste. In 2024, the factory of Yanjing Beer achieved a bottle return rate of over 78%.

In 2024

The factory of Yanjing Beer achieved a bottle return rate of over **78%**.

BG has taken robust steps to promote waste sorting by establishing a sound organizational structure for waste classification. Affiliated enterprises are encouraged to establish joint working groups for waste classification to take responsibility for waste classification management. Through both online and offline channels, BG has organized a series of waste classification lectures and awareness-raising activities. It has also conducted self-inspections in office areas to ensure proper implementation of waste classification practices.

BG firmly upholds the environmental protection philosophy of coexisting and thriving with nature. By implementing measures such as biodiversity conservation, ecological restoration, and integrated water environment management, BG promotes ecological balance and natural restoration, drives the healthy development of regional ecosystems, and provides a new model for ecological construction that fosters a harmonious relationship between humans and nature.

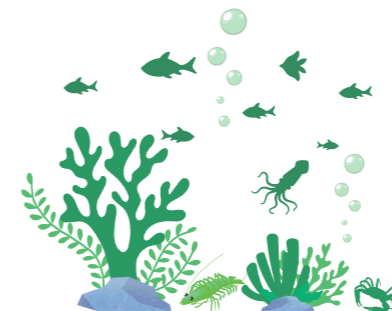
BG places great importance on biodiversity conservation. Its affiliated enterprises, including Beijing Gas, BERE, BMEDI, Yanjing Beer, and the Solid Waste Platform, have integrated this concept into the entire process of product production and project construction. The Group has conducted ecological compensation activities through species proliferation and release, reducing negative impacts on biodiversity. The Yanqing Olympic Zone carries forward the green legacy of the Winter Olympics. Situated next to the Songshan National Nature Reserve, the zone is home to key protected species, including the Chinese goral, leopard cat, and roe deer, which are frequently observed in the area. After the Games, 14 plants classified as Beijing's first-class key protected wild species—*Botrychium lunaria*—were discovered in the zone.

Case

### Species proliferation and release for ecological compensation

During the construction of the independently developed LNG emergency reserve project at Tianjin Nangang, Beijing Gas actively carried out ecological compensation activities through species proliferation and release, striving to maximize both environmental protection and social benefits. The project team developed the *Implementation Plan for Marine Fisheries Resource Restoration*, which aims to release species such as Chinese shrimp, Gazami

crabs, Olive flounders, Chinese tongue soles, barracudas, and *Nibeia albiflora* into nearshore waters in Tianjin over a three-year period. This species proliferation and release initiative will significantly supplement the Chinese shrimp population in Bohai Bay, effectively improve the structure of the aquatic ecosystem, and promote the restoration of the aquatic ecological environment.



## Ecological environment restoration

BMEDI promotes ecological value transformation through the ecological environment restoration and green development EOD project in the Nandujiang River Basin (Dingan section). Yanjing Beer has organized tree planting activities for employees on World Environment Day, contributing to ecological environmental governance and land reclamation and reforestation efforts. The Solid Waste Platform has carried out environmental impact assessments (EIAs) during the early stages of projects based on local ecological protection red lines. It strictly controls water, air, noise, and waste emissions to reduce environmental impact, while actively conducting ecological restoration actions, including slope protection, reforestation, dust reduction, and noise control, during construction.

## Comprehensive water environment management

BMEDI, adhering to the philosophy of "ecology first, green development," has undertaken a series of comprehensive ecological environmental management and restoration projects. These projects cover various areas, including efficiency and quality improvement of reclaimed water plants, water environment optimization, and water supply and sewage system renovation. They have significantly improved water quality in the project areas and are committed to contributing wisdom and strength to the sustainable development of the Yangtze River Economic Belt.



BMEDI launched five integrated environmental remediation projects, including the project from Yingbin Avenue to Binjiang Road Blocks in Baisha Town, Jiangjin District, aiming to improve river morphology, tackle water pollution, restore biological communities, and revitalize streams

### Case Integrating a million-ton water plant in a scenic area

In 2024, the first phase of the Dongguan Supporting Songshan Lake Water Plant, designed by BMEDI as part of the Pearl River Delta Water Resources Allocation Project, successfully commenced trial operations. With a design capacity of 1.1 million tons per day, it is currently the largest single water plant of its kind built in Asia in a single phase. Following an intensive and green design concept, BMEDI's design team employed an innovative layout with a two-layer, stacked structure and grouping arrangement. They integrated 24 different structures of varying elevations, shapes, and functions into an area of nearly 290 mu (approximately 19.33 hectares), saving more than 50% of land area and integrating the plant into the surrounding environment. The plant's ecological rooftops and green covers effectively conceal it within nature, blending seamlessly with the local landscape to achieve a two-star standard for green buildings. A sludge water system was implemented to treat and recycle all production wastewater, basically achieving zero discharge of production wastewater. In line with the sponge city design concept, the facility also features a rainwater retention pond to collect rainwater for landscaping within the facility, effectively conserving water resources. Additionally, intelligent dosing and smart pump scheduling systems were used to reduce energy consumption and carbon dioxide emissions, making a positive contribution to environmental sustainability.



Songshan Lake Water Plant achieves a two-star standard for green buildings



Scan the QR code to view the "Stacked" Songshan Lake Water Plant

### Case Gansu Pingliang Jinghe Avenue Sponge City Renovation Project selected as a model project for the "China Sponge City Ten-Year Achievement Exhibition"

BMEDI carried out the design and construction of the Gansu Pingliang Jinghe Avenue Sponge City Renovation Project with a "gray-green combination, blue-green integration" concept. The project utilizes a 50-meter-wide road and a 25-meter greenbelt outside the road red line to create a sponge ecological corridor that combines internal and external designs. The project connects six sponge drainage zones, integrating runoff control, rainwater retention, and the use of water resources and reclaimed water. Features such as permeable pavements, vegetated ditches, and rain gardens blend harmoniously with the surrounding landscape, creating a unique and distinctive sponge landscape avenue model along the riverside in northwest China. Upon completion, the project added a 106,200-square-meter strip-shaped sponge ecological park, becoming an ecological showcase for Pingliang City and enhancing the sense of gain and well-being for local residents.



Gansu Pingliang Jinghe Avenue Sponge City Renovation Project undertaken by BMEDI

# IV

## Humanistic BG

### Uniting People and Enriching Culture

#### BG's Solutions for Urban Sustainable Development

Beijing Enterprises Group adheres to a people-centered approach, caring for its employees by strengthening workplace safety management and ensuring both their workplace and health safety. The Group is committed to building a corporate culture system with BG's unique characteristics, comprehensively enhancing its cultural soft power, safeguarding employees' basic rights and interests, and fostering employee growth. Warm, people-oriented initiatives are effectively implemented, aiming to inspire the entrepreneurial energy and drive of employees, and create a "Humanistic BG" where the public is more satisfied, culture is more prominent, and employees are happier.

#### Active Response to SDGs



#### Governance

- We developed the *Measures for Workplace Safety Audit Management of Beijing Enterprises Group (Trial)*.
- We issued the *Three-Year Action Plan for Addressing Fundamental Workplace Safety Challenges of Beijing Enterprises Group (2024–2026)*.
- We established the *Major Safety Risk Control List of Beijing Enterprises Group and the Major Safety Hazard Ledger of Beijing Enterprises Group*.

#### Actions in 2024

- We invested RMB **3.3** billion in workplace safety.
- We conducted **241,000** safety inspections.
- We added or revised **1,609** emergency management systems.
- We carried out over **11,000** emergency drills, with more than **126,000** employee participations.
- The Sunshine Special Fund supported and assisted over **391** instances of employees facing various difficulties, with a total support amount exceeding RMB **1.4908** million.

#### Plans for 2025

- We will strengthen our principal responsibility for workplace safety.
- We will continue to promote special governance for gas safety.
- We will enhance its cultural soft power.
- We will further strengthen talent introduction and training.



# Story of Humanistic BG

## Ensuring safety and assurance across over 3,200 kilometers

Recently, a letter of gratitude spanning more than 3,200 kilometers arrived at the Cuiwei Gas Service Center of Beijing Gas Group Co., Ltd. 5th Branch.

The letter, from a user residing abroad, expressed heartfelt gratitude for the dedication to customers and conscientious work attitude demonstrated by Beijing Gas employees.

Since the user has been residing in Thailand, the home in Beijing was left unattended for an extended period, making it difficult to carry out regular in-home gas safety inspections. Tian Qiang, an inspector from Cuiwei Gas Service Center, took the initiative to contact the user through the neighborhood committee, explaining the importance of the in-home inspection with a responsible attitude aimed at addressing "unavailable to visit" cases and ensuring the safety of the home's gas system.

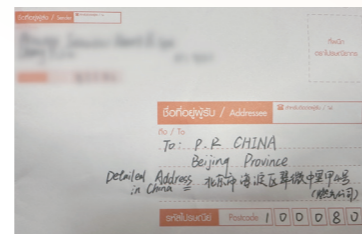
The user, impressed by Tian's professionalism and responsibility, promptly arranged for a property agent to open the door. During the in-home inspection, Tian replaced the existing non-standard rubber hose with a safer metal-coated hose and conducted a thorough gas safety inspection of the entire property.

In the letter, the user said,

“Tian's sense of responsibility toward his work made me feel incredibly reassured, even from abroad... It's because of such outstanding employees that we have full trust in and appreciation for your services.”

In 2024, Beijing Gas established a 24/7 service mechanism by pooling the efforts of all employees, including precise contact and special initiatives like "late-night patrols" and "knock-on-door actions." No fewer than three rounds of inspections covering more than 1.6 million "unavailable

to visit" households were conducted, successfully completing the in-home inspection campaign for these users. This initiative has further eliminated safety hazards in the gas usage process and created a safe and stable gas consumption environment for residents.



A letter of gratitude across the sea



Following the "taking service one step further, reducing trouble for the user" principle, Beijing Gas 5th Branch adopts a multi-channel appointment system for in-home inspections

## Workplace Safety: Safeguarding Development through a Safety Culture

Committed to the "safety first" philosophy, BG has continuously improved its workplace safety management system. Through multiple measures, BG has strengthened the development and promotion of a safety culture system, actively fulfilling its corporate safety responsibilities with concrete actions. The Group promotes the integration of safety culture into production and operations, enhances employees' awareness of safety "red lines," reinforces the workplace safety protection network, and creates a favorable safety environment, thereby safeguarding the high-quality, safe development of the Group.

### Strengthening workplace safety management

In 2024

The Group invested RMB **3.3** billion in workplace safety

BG has firmly established the concept of safety development, consistently adhering to the principle of "putting people and their lives above anything else." The Group integrates workplace safety work with all production and operational tasks, ensuring they are planned, inspected, and assessed together, thereby promoting high-quality development of the enterprise and a high level of safety in a positive, interactive manner. In 2024, the Group invested RMB 3.3 billion in workplace safety, marking a 65% increase compared to the previous year. A total of 242 affiliated enterprises completed the certification and re-assessment for workplace safety standardization, ensuring that all enterprises mandated to undergo such processes have done so. Moreover, the Group successfully fulfilled safety assurance tasks during critical periods, with no workplace safety-related accidents occurring throughout the year. The overall workplace safety situation remained stable and sound growth.



**High-level coordination and promotion**

The Group's Party Committee incorporates key workplace safety tasks into the work list for exercising full and rigorous Party self-governance. The composition of the Group's Workplace Safety Committee is updated as needed. The Group's senior leadership personally oversees and drives the implementation of key workplace safety tasks, and special coordination meetings are held promptly to organize and deploy safety assurance work.



**Improving the management system**

The Group supports its affiliated enterprises at all levels by benchmarking against domestic and international industry leaders in workplace safety management and integrating their workplace safety standardization systems with international advanced management systems like Health, Safety, Environment (HSE) and Occupational Health and Safety Assessment Series (OHSAS), continuously improving the modernization, standardization, and normalization of workplace safety management.



**Enhancing the supervision system**

The Group has established the *Measures for Workplace Safety Audit Management of Beijing Enterprises Group (Trial)*, and completed the annual workplace safety audits for affiliated enterprises such as BEHL and Beijing Gas. These efforts have significantly improved the safety regulatory effectiveness within the Group.



**Initiating special actions**

The Group has issued the *Three-Year Action Plan for Addressing Fundamental Workplace Safety Challenges of Beijing Enterprises Group (2024-2026)*, which outlines 8 major actions with 23 specific measures. Each affiliated entity is responsible for the implementation, ensuring the successful completion of the annual goals specified in the action plan.



**Strengthening technology-driven workplace safety**

The Group encourages its affiliated entities to establish a safety management system based on management and supported by technology. This approach has yielded a series of successful applications and innovative achievements, significantly improving the scientific, professional, and intelligent levels of workplace safety risk prevention and control.

In 2024

The Group conducted  
**241,000**  
safety checks  
discovered and  
rectified a total of  
**201,000**  
safety hazards.

### Preventing safety risks and hazards

BG continues to strengthen the dual control mechanism for safety risk management and hazard investigation and rectification. The Group has refined its *Major Safety Risk Control List* and *Major Safety Hazard Ledger*, continuously advancing the major risk accountability system and the dynamic elimination mechanism for major safety hazards. The Group has also intensified its efforts to carry out the three-year action for addressing fundamental workplace safety challenges, the special action for eliminating fire safety hazards, and the special campaign to remedy "ill-running" gas pipelines, comprehensively investigating and rectifying safety hazards. An expert database has been established to focus on specialized supervision and inspections in key areas like gas, fire safety, and construction, strengthening the safety management of key locations, areas, and processes. Through the "Qi An An" system, the Group has conducted self-checks and rectifications for risks and strengthened the on-site management of various hazardous operations, ensuring real-time control of safety risks. In 2024, the Group conducted 241,000 safety checks and discovered and rectified a total of 201,000 safety hazards.



In 2024, Beijing Gas achieved 100% inspection coverage for 7.2 million residential users, especially for 1.67 million users who were unreachable in previous visits, ensuring gas safety for the public. This practice was **highly praised** by the National Gas Safety Rectification Task Force.

### Enhancing emergency response capabilities

BG has established an emergency support system with clear responsibilities and swift responses, built professional emergency teams, and organized various emergency drills to strengthen emergency response capabilities in an all-round way.

#### Establishing emergency response mechanisms

The Group continues to improve and refine its emergency response mechanisms for unexpected events, including the revision of the *Comprehensive Emergency Response Plan of Beijing Enterprises Group* to clarify the principal responsibilities for emergency management. The Group has also enhanced the technological and digital capabilities of various risk monitoring and early warning systems, perfected emergency response procedures, and strengthened the development of emergency teams and the emergency dispatch and command system. In 2024, the Group's affiliated enterprises at all levels established or revised 1,609 emergency management regulations.

#### Building emergency teams

The Group encourages its affiliated enterprises, such as the BMEDI and BIIC, to establish specialized emergency rescue teams or part-time emergency rescue teams, equipping them with necessary emergency rescue equipment, devices, and materials. This effort has effectively integrated emergency resources, maintaining the bottom line of production and operational safety.

#### Organizing emergency drills

The Group has organized emergency drills for flood control, fire prevention, gas leaks, and other emergencies, as well as participated in emergency response competitions and multi-party joint drills. These activities aim to enhance employees' skills in responding to and providing first aid during emergencies and comprehensively improve the enterprise's emergency support level. In 2024, the Group conducted over 11,000 emergency drills with more than 126,000 employee participations.

In 2024

The Group conducted over  
**11,000**  
emergency drills  
with more than  
**126,000**  
employee participations.



Beijing Gas conducts gas safety inspections to ensure the safe gas usage of the three major cultural buildings in Beijing's sub-center

### Cultivating a safety culture

BG encourages its affiliated enterprises at all levels to develop safety culture systems that align with the characteristics of their production and business operations. The Group has taken solid moves to carry out safety knowledge and skills education and training for all employees and the general public during Workplace Safety Month, Fire Safety Month, the Ankang Cup, and the safety awareness campaigns in enterprises, rural areas, communities, schools, and households. These efforts focus on enhancing the role of safety culture in guiding and promoting workplace safety.



Beijing Gas mobilizes Party and League members to form a vanguard team to carry out safe gas usage awareness campaigns

### Strengthening cybersecurity

BG strictly implements the Party Committee's cybersecurity responsibility system and signs cybersecurity responsibility agreements with each of its affiliated enterprises. The Group has organized and conducted cybersecurity attack and defense drills, thoroughly inspected and promptly rectified cybersecurity risks and vulnerabilities, and successfully completed cybersecurity safeguarding tasks during major events. These efforts effectively protect the privacy and rights of customers and employees. In 2024, no major security incidents occurred within the Group.

## Building Cohesion: Shaping Cultural Development Power

BG has built a distinctive cultural system that is highly aligned with the “Five Pillars of BG” development strategy, leveraging culture to guide reform, innovation, and leapfrog development, while fostering consensus and synergy through cultural integration. The Group continues to strengthen the management of corporate culture, embedding the creation of outstanding brands into its overall development strategy and integrating ESG practices into brand development. By enhancing cultural identity, fortifying cultural fronts, and telling compelling BG stories, the Group is shaping a multidimensional brand landscape and gathering strong momentum to drive its high-quality development.

### In 2024

The Group and its affiliated enterprises achieved over

# 490,000

media reports and coverage on social platforms.

### Strengthening positive

BG actively engages with mainstream media by publishing external promotional content on platforms like China Media Group (CMG), People's Daily Online, *Beijing Daily*, The Beijing News, and other major media outlets. The Group has also issued the *Notice on Strengthening the Use of BG's Official Media for Promotion*, reinforcing the influence and reach of the Group's official WeChat subscription and video accounts, building a media library editing and review system, and exploring the digital transformation of promotional work. Through special columns in *BG Zongheng Journal*, BG's internal publication, and the organization of staff artistic work submissions and cultural performances, the Group has created a platform for communicating and spreading corporate culture. These efforts aim to foster a unified and progressive atmosphere of thought, public opinion, and culture, driving towards renewed brilliance. In 2024, the Group and its affiliated enterprises achieved over 490,000 media reports and coverage on social platforms.

### Creating a distinctive culture

BG has formed a staff lecture team to conduct lecture tours across the Group and promote the "BG Story." The Group has organized participation in activities such as "Exemplary State-Owned Enterprises · Beijing Role Models," "Book-Loving Enterprises," and "Beijing Citizens' Stars of Learning," leveraging role models to guide and inspire others. The Group has also launched a research project on corporate culture cultivation, with a path for corporate culture development and brand building that aligns with Beijing's functional positioning as a capital, integrates BG's unique characteristics, and reflects the spirit of the times being proposed. This work aims to transform corporate cultural achievements into advantages that improve the Group's core competitiveness and functions.

BG has been honored with prestigious titles such as "Outstanding Unit for Innovation in Corporate Culture and Brand Communication in the Context of Integrated Media," "Outstanding Unit for Building an All-Media Communication System and Brand Communication in Chinese Enterprises," and "Exemplary Organization of Corporate Culture in China during the 13th Five-Year Plan Period."



Cultural promotion platform – BG Zongheng Journal

### Five Pillars of BG

### Facts about BG

- 01 • **Staying true to our original aspiration and fulfilling our mission**, we aim to build a "Responsible BG" that preserves and increases state-owned assets, conforms to and serves national priorities, and proactively contributes to social welfare.
- 02 • **Stimulating vitality and driving growth**, we aim to build a "Tech-nological BG" with a well-established innovation system, leading technological capabilities, a concentration of scientific talent, and a strong innovation atmosphere.
- 03 • **Promoting greening and decarbonization**, we aim to build a "Green BG" with distinctive green foundations, deeply rooted low-carbon concepts, and efficient, intensive use of resources.
- 04 • **Uniting people and enriching culture**, we aim to build a "Humanistic BG" where the public is more satisfied, culture is more prominent, and employees are happier.
- 05 • **With high standards and high quality**, we aim to build a "Quality BG" that excels in products, delivers first-class services, boasts outstanding brands, and operates with lean management.



Beijing Enterprises Group held a summary and report meeting for the 20th anniversary of its reform and development

Honors



- BEHL's "Building an Asian Leading ESG Management System with the Goal of Becoming a First-Class Public Utility Service Provider" and Yanjing Beer's "Promoting Innovation and Upgrading in the New Corporate Development Period with the '@YOU Culture'" were selected for the Special List of **2024 Beijing Outstanding Corporate Culture Achievements**.
- Beijing Gas was awarded the prestigious titles of "Top 50 National Corporate Culture Development," "Top 100 National Corporate Culture Contribution Units," "National Model Enterprise for Practicing Core Socialist Values in Corporate Culture," and "Most Influential Brand Award at the 70th Anniversary of Clean Energy Innovation and Development Ceremony."
- BBEG was honored with the **Special Award for Outstanding Corporate Culture Achievements in Beijing and the First Prize for Beijing Corporate Management Modernization and Innovation Achievements**. The Gas Thermal Power Engineering Design Institute's corporate culture achievements received the **Second Prize for Outstanding Corporate Culture Achievements in Beijing and the Second Prize for Beijing Corporate Management Modernization and Innovation Achievements**.



The Beijing branch team of the Hong Kong Chinese Enterprises Association's Ninth Sports Games

## Employee Growth: Creating a Fulfilling Workplace

BG is dedicated to safeguarding the core interests of its employees, building harmonious labor relations, and providing a broad career development space and promotion pathways for employees. The Group cares about both the work and life of its employees and fosters a positive atmosphere for recognizing, valuing, respecting, and making full use of talent, thereby laying a solid foundation for high-quality corporate development through its talent base.

### Protecting employee rights

BG strictly complies with the *Labor Law of the People's Republic of China* and the *Labor Contract Law of the People's Republic of China*, fully ensuring the basic rights of employees. The Group has continually optimized its compensation and incentive systems, striving to provide employees with a safe, healthy, diverse, inclusive, and non-discriminatory workplace.



#### Upholding equal employment

The Group selects outstanding talent based on the principles of "openness, fairness, and justice," signs labor contracts with employees in accordance with the law, respects employee diversity, and prohibits any discriminatory behavior based on nationality, gender, age, race, religion, pregnancy, or disability. The use of child labor, forced labor, harassment, or abuse is explicitly prohibited. In 2024, the Group achieved a 100% labor contract signing rate, with an employee turnover rate of 3.87%, and no incidents of child labor or forced labor violations occurred.



#### Improving compensation and benefits

The Group has established a compensation and incentive system driven by personal ability and performance, adopting a market-based salary model of "paying salary based on position, performance, and ability." A total salary budget model has been established, aiming to create a more competitive dynamic allocation approach. The Group has expanded its medium- and long-term incentive scopes, and supported stock dividends for listed and technology-based companies, thereby fully stimulating employee vitality. In 2024, the average paid annual leave for employees was 8.56 days.



#### Ensuring occupational health

The Group has launched a special program to ensure employee health, including providing health check-ups for all employees, equipping the workplace with health facilities and equipment for employees, and offering customized occupational health care for special employee groups such as pregnant and disabled workers. A psychological counseling room has been established, with ongoing psychological health support programs and monitoring services, mental health education, and stress relief services provided, thereby ensuring the physical and mental well-being of employees.



BEHL won the **Good MPF Employer Award** by the Mandatory Provident Fund Schemes Authority (MPFA) for five consecutive years.

## Supporting career development

In 2024

The total training duration for employees was **3.2424** million hours

BG has established a scientifically sound talent development strategy. Based on the different job characteristics and growth needs of employees, the Group has improved its tiered and categorized training management system. It offers a variety of training methods, including online and offline courses, hands-on project training, labor skills competitions, and employee technical innovation activities, to enhance employees' job knowledge and practical skills. The Group has developed a company-wide job grading framework and established multiple development paths. It has created three talent pools: young and middle-aged key personnel, outstanding young officials, and young talent. A dynamic adjustment, graded classification, and individualized development system has been implemented to provide clear promotion channels and encourage a vibrant flow of talent. In 2024, the total training duration for employees was 3.2424 million hours, and the Group successfully completed the first batch of Beijing's pilot projects for industrial workforce reform.

The Group focuses on talent development by building a regional youth talent cultivation brand complex, collaborating with Tsinghua University to establish a student social practice base, and hosting the "Youth Innovation Beijing · Spark Youth Scientific Thought Forum." This initiative promotes in-depth integration among universities, local governments, and enterprises, creating a talent nurturing pool.



The Group's Youth League Committee successfully hosted the 2024 second session of the "Youth Innovation Beijing · Spark Youth Scientific Thought Forum"

## Caring for female employees

BG places great emphasis on the rights and well-being of female employees. The Group has improved the organizational system of the female employees' committees at all levels and established systems and mechanisms to safeguard the rights and interests of female employees. It strictly enforces regulations on maternity and breastfeeding leave, ensuring equal pay, benefits, and career development opportunities for female employees. Equal opportunities are ensured in job title and rank promotions, professional and technical evaluations, and salary distribution.

Additionally, female employees are provided with semi-annual health check-ups. The Group has also established mother-baby care rooms in qualified office spaces at the headquarters and affiliated enterprises. Regular excellence recognition and showcase activities for outstanding female employees are held to highlight the contributions of women as "half the sky" and create a fair, healthy, and friendly workplace for female staff.



BG's mother-baby care room



BG's excellence recognition and female employee showcase activity in celebration of 2024 International Women's Day

In 2024

BG's Sunshine Special Fund supported and assisted over **391** instances of employees facing various difficulties a total support amount exceeding RMB **1.4908** million.

## Sincere care for employees

BG has established the Sunshine Special Fund assistance mechanism to carry out support and caring activities for employees in need in line with scheduled plans and specific projects. The coverage of the employee mutual aid and support system continues to expand. The Group has organized various employee care activities, including showing care for employees during holidays and festivals, paying visits to frontline and model workers, and providing warmth in winter and relief in summer. It has also continuously improved the infrastructure and support services of the Employees' Home, Employees' Family, and Warmth Stations, ensuring consistent care and service for retired officials. Moreover, the Group has organized rich and diverse cultural and sports activities to provide employees with platforms for self-expression and friendship building, enhancing their cohesion and morale. In 2024, BG's Sunshine Special Fund supported and assisted over 391 instances of employees facing various difficulties, with a total support amount exceeding RMB 1.4908 million.





# V

## Quality BG

### High Standards and High Quality

#### BG's Solutions for Urban Sustainable Development

Beijing Enterprises Group firmly upholds the people-centered development philosophy, strengthens quality management to deliver exceptional products, continuously provides high-quality services to users, and enhances brand building to enhance its gold-standard reputation. The Group activates governance efficiency through a healthy political ecosystem, improves the collaborative operation mechanism across legal, compliance, risk, and internal control functions, forms a coordinated "six-in-one" supervision framework, and strives to build a flourishing and strong enterprise at a higher level. These endeavors aim to create a "Quality BG" that excels in products, delivers first-class services, boasts outstanding brands, and operates with lean management.

#### Active Response to SDGs



#### Governance

- We have improved the management system for swift response to public complaints.
- We have refined brand management systems and basic standards.
- We have enhanced the collaborative operation mechanism across legal, compliance, risk, and internal control functions.

#### Actions in 2024

- We established **26** new regulations, revised **17** regulations, and abolished **23** regulations.
- We established and improved a long-term mechanism for addressing issues identified by internal audits, with **1,247** corrective actions completed and a **100%** timely correction rate.
- We achieved a **100%** customer complaint resolution rate.

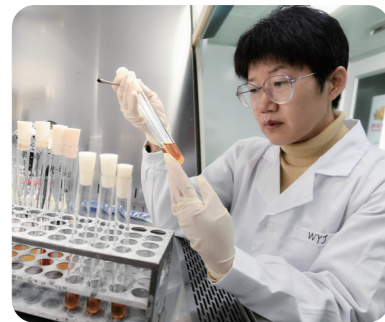
#### Plans for 2025

- We will continue to strengthen product quality management.
- We will optimize the process of swift response to public complaints.
- We will enhance the synergy between strategic management and risk management.
- We will strengthen the integration of risk management with corporate management.
- We will further integrate risk management into the review and decision-making process.



# Story of Quality BG

## Crafting beer for the people of China



**Guo Liyun** is the Director of the Technology Research and Development Center at Yanjing Beer. She is a postdoctoral mentor, a professor-level senior engineer, a senior brewer, and a national-level skills master who enjoys the government special allowance of the State Council. She has been honored with numerous prestigious titles, such as "Highly-Skilled Talent with Outstanding Contributions in Beijing," "Beijing Grand Craftsman," and "Capital Labor Medal."

With 30 years of experience in the industry, Guo has participated in numerous high-end research projects and worked tirelessly to transform research outcomes into a productive force for the company. She has become one of the leading figures and role models in the beer industry. From Guo Liyun's efforts, we can see her dedication and original aspirations, feeling the fighting spirit embodied in Yanjing's culture of "With passion from you, Yanjing stands with me."

### Upholding the original aspiration for quality in craftsmanship brewing

Since entering the beer industry, Guo Liyun has infused craftsmanship into every drop of beer. She has led several high-grade, precision, and advanced research projects, concentrating on issues such as yeast strain selection. By benchmarking against international advanced standards and addressing key technical challenges, Guo has demonstrated a relentless pursuit of beer quality through concrete actions, laying a solid foundation for Yanjing Beer's quality improvements.

### Breaking technical barriers through innovative development and research

To Guo Liyun, understanding yeast is like getting to know her own child, while cultivating yeast is like carefully nurturing a baby. She has boldly innovated on her path by applying cutting-edge technologies such as aerospace breeding and ARTP mutation breeding, successfully screening several high-quality yeast strains, and launching 40 unique flavored products. She led the development of the Yanjing S12 product, applying advanced brewing techniques to give the product a unique style. Guo also conducted research titled "Research on the Flocculation Mechanism of Beer Brewing Yeast and the Development and Application of Precise Control Technology Systems," improving beer flavor quality. Furthermore, she developed an intelligent beer preference evaluation technology based on consumer neuroscience, reaching international leading standards and continually breaking technical barriers in the industry.

### Inheriting skills and cultivating new professionals

Guo Liyun understands the importance of inheritance. She led the brewer technical studio from the municipal level to the national level and actively organized apprenticeship and skill transfer activities. She shares her scientific spirit and frontline brewing experience with younger generations without reservation, allowing the seeds of "craftsmanship brewing" to take root and grow in the hearts of new brewers. In doing so, she has cultivated numerous outstanding professionals for Yanjing Beer and the beer industry as a whole, driving the industry's continuous advancement.

## Excellent Products: Enhancing Quality Management

### BMEDI

BMEDI exercises full-process control over product and service quality through pre-submission checks of finalized design documents, monthly quality spot checks and process supervision, construction drawing reviews, design follow-up visits, and penalties for external complaints.

### Beijing Gas

Beijing Gas carries out production and supply in strict accordance with national and corporate standards. It has established an internal audit mechanism and conducted regular compliance inspections to enforce stringent quality control.

### BIIC

Jingyi Technology Incubator has passed the ISO 9000 quality system certification re-examination, and Jingyi Industry and Trade has obtained the ISO 9001 quality management system certification through third-party assessment.

The projects designed by BMEDI, including the comprehensive regional transportation management of the CBD area in Chaoyang District, Beijing, the Yexiu Second Road Bridge over Qinhuai River in Nanjing, Jiangsu Province, and the First Reclaimed Water Plant in Yinchuan, Ningxia Hui Autonomous Region,



won the 2024 National Municipal Engineering Highest Quality Level Evaluation Award.



The Yexiu Second Road Bridge over Qinhuai River in Nanjing, Jiangsu Province, designed by BMEDI

## First-Class Services: Responding Swiftly to Public Complaints

BG continues to improve its management system for swift response to public complaints through optimized workflows to enhance the quality of services across various stages, including complaint handling and transfer of work orders, categorization and resolution, review and consultation, follow-up supervision, and monitoring and evaluation. The Group ensures efficient resolution of user complaints through the Gas Service Center's customer service window, significantly improving the effectiveness and quality of public services. In 2024, the Group achieved a customer satisfaction rate of 97.52% and a 100% complaint resolution rate.

### Case "Three-order" relay for swift response to public complaints, creating an efficient closed-loop process

Guided by user needs, Beijing Gas has optimized its workflows to create a highly efficient, precise, and customer-friendly gas service system, continually improving the user experience for gas customers.

To further enhance the gas service delivery in Beijing's sub-center, the Indoor Service Division I of Beijing Gas 3rd Branch explored and implemented the "three-order" relay working mechanism—including order reception, follow-up, and resolution—to boost response efficiency and ensure the fast, accurate, and effective resolution of user complaints.

#### Building a rapid "order reception" system



The company has clearly defined responsibilities and divisions of labor, with reports filed for approval. The service team functions as the core hub, collaborating with business departments and frontline teams to create a rapid response system, optimizing process coordination and improving order reception efficiency. Complaints are collected through multiple channels, including service center windows, emergency hotlines, and gas safety managers, ensuring smooth channels for taking proactive measures to address complaints before they are raised.

#### Strict "order follow-up" with problem-oriented focus

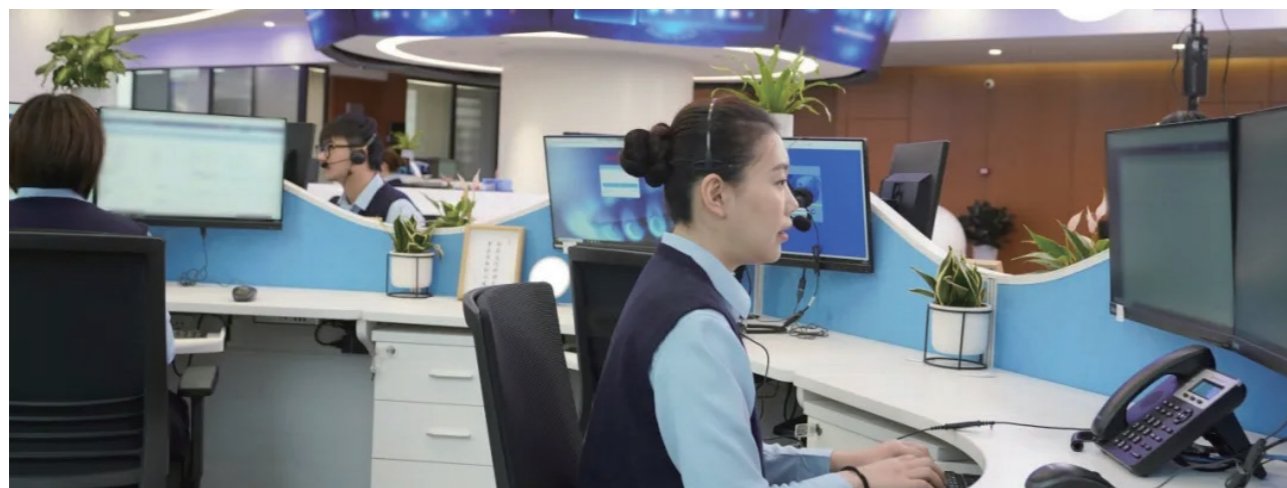


The company has implemented evaluation criteria based on three key indicators: response rate, resolution rate, and satisfaction rate. This promotes a standardized and regulated process across all stages of service. Work orders are managed based on urgency, with resources allocated accordingly. Each order's progress is monitored by designated personnel to ensure timely completion. The company also conducts weekly reviews of order processing and completion outcomes.

#### Focusing on effective "order resolution" for public service



The company enforces a closed-loop handling mechanism for work orders, including a 100% customer follow-up process through phone calls, text messages, or in-person visits to confirm that issues are resolved and to enhance customer satisfaction. Typical cases are reviewed regularly, analyzing root causes and optimal solutions to develop replicable best practices for addressing similar issues on a larger scale.



Beijing Gas 96777 Gas Hotline Service Center



#### Beijing Gas

Beijing Gas adheres to a 24-hour complaint handling system, with clear time requirements for handling complaints. Special governance and information coordination mechanisms have been established, and dual dispatching and scheduling measures have been implemented. Additionally, the company has conducted joint hand-in-hand service promotion activities.

#### BMEDI

BMEDI strictly adheres to the three-system document requirements when dealing with external complaints and promptly addresses feedback. It values customer feedback highly and conducts proactive customer satisfaction surveys through routine production meetings, design reviews, and feedback forms.

#### BBEG

BBEG has developed guidelines for service attitude in work order handling to standardize the process. A daily, weekly, monthly, and general reporting mechanism has been maintained to enhance awareness of resolving complaints at the first point of contact and address problems by focusing on one topical issue per month.

#### BEHL

BEHL implements checklist-style management and takes proactive measures to address complaints before they are raised. The company has also organized experience-sharing sessions on swift response to public complaints and petition work, aimed at improving the quality and efficiency of complaint handling.



Beijing Gas innovates service methods with public welfare live streaming at Beijing's sub-center government affairs service center

## Outstanding Brands: Strengthening Our Golden Reputation

BG places great importance on brand building and integrates the creation of outstanding brands into its overall corporate development strategy. The Group fully leverages the collaborative advantages of comprehensive urban operation services, actively creating outstanding brands that align with the new round of strategic development. This includes enhancing its Party-building brand, social responsibility brand, volunteer service brand, and other prestigious brands. BG has improved its brand management system and basic standards, while establishing a harmonious and complementary mother-child brand system within the Group. The Group encourages its affiliated enterprises to conduct brand value asset evaluations in accordance with their realities, and makes full use of both internal and external media resources to broaden publicity channels and innovate promotion methods, thereby enhancing the enterprise's visibility and reputation. A crisis early-warning, risk-avoidance, and emergency response mechanism for brand protection has been set up to strengthen brand management and safeguard the Group's brand reputation.



BEWG has been selected as one of the Top 500 Chinese Brands for three consecutive years

- BIIC**  
 BIIC has built a well-tiered brand system with complementary advantages. It was selected as one of the Top 100 Manufacturing Enterprises in the Beijing-Tianjin-Hebei Region in 2024. The "Jingyi Intelligent Manufacturing" brand made its debut at international exhibitions such as the Hannover Messe in Germany, continuously enhancing its brand visibility.
- BERE**  
 The Yanqi Lake Hotel Complex won 58 industry grand awards. The Yanqing Olympic Zone was named one of the "Top 10 Sports Tourism Scenic Areas" and a "Municipal-Level Tourism Resort" in 2024. The value of BG's cultural tourism brands has become increasingly prominent.
- Yanjing Beer**  
 Yanjing Beer has launched a "hybrid online and offline" marketing strategy, strengthened diverse communication, and expanded experiential consumption scenarios. It has also accelerated the market form upgrading of the "Hundred Counties Project," revamping its brand image to appeal to younger, high-end consumers.



BG's "One Mountain, One Lake" project wins multiple industry awards

## Efficient Management and Control: Coordinating High-Quality Development

BG is committed to unwaveringly exercising full and rigorous Party self-governance to the highest standards, creating a clean and upright political environment. The Group focuses on the collaborative operation mechanism across legal, compliance, risk, and internal control functions, effectively enhancing the level of detailed internal management. Moreover, BG has built a coordinated "six-in-one" supervision framework, forming a powerful supervisory force that ensures the standardized operation of power and drives the Group steadily forward on the path of enterprise prosperity and growth.

### Integrity in business practices

BG places a strong emphasis on daily integrity and discipline building, vigorously cultivating a clean culture that aligns with the requirements of the new era. The Group persistently improves Party conduct and fosters a sound political ecosystem featuring honesty and integrity within the Party. These initiatives aim to effectively activate corporate governance effectiveness and safeguard the steady growth of the business.

#### Strengthening integrity supervision

The Group strictly implements procedures for reporting major matters and systematically addresses corruption-related issues. It has advanced the standardization of the inspection system, formulated corrective action plans for inspections, and established problem, task, and responsibility lists, unswervingly driving the anti-corruption struggle to a deeper level.

#### Fostering an integrity culture

The Group has implemented the *Opinions on Strengthening the Cultivation of an Integrity Culture in the New Era*, organizing activities such as integrity talks, warning education, and anti-corruption training. By high-lighting typical local cases, it raises awareness among the leadership team and fosters a clean culture that values integrity and rejects corruption.

#### Improving Party conduct

In accordance with the *Implementation Rules for Enforcing an Eight-Point Decision on Improving Party and Government Conduct*, the Group has established a long-term mechanism for improving Party conduct, effectively utilizing the mechanism for swift response to public complaints and expanding channels for public supervision.



Tian Zhenqing, Secretary of the Party Committee and Chairman of BG, delivers a special lecture on Party discipline learning and education to the Group's Party members and leaders

## Strengthening internal control, compliance, and risk management

BG has improved its internal control system, advanced compliance management, and focused on key aspects of major risk prevention and resolution. This strengthens internal control, compliance, and risk management, ensuring that the Group continues to move steadily along the path of high-quality development.



### Improving the internal control system

- The Group has integrated internal control requirements into its regulatory system and business processes, enhancing the comprehensiveness and effectiveness of the internal control system. This approach promotes the scientific, standardized, and procedural management of operations. The Group has established 26 new regulations, revised 17 regulations, and abolished 23 regulations.
- All levels of enterprises within the Group have implemented the "Three-Year Full Coverage" internal control supervision and evaluation plan, achieving full coverage in the first round of internal control supervision and evaluation. All subsidiaries have carried out self-evaluations of internal controls.



### Promoting compliance management

- The Group adopts a tailored approach for each enterprise to promote the development of compliance systems for its directly affiliated enterprises and key subsidiaries, achieving full coverage of compliance management systems for both directly affiliated enterprises and key subsidiaries. Among them, Yanjing Beer became the first enterprise in the industry to pass the international compliance management certification.
- The Group adheres to legal and regulatory compliance, strengthens legal review and oversight, advances the early prevention of legal risks, and strictly controls legal compliance risks. This ensures 100% coverage of legal compliance reviews for rules and regulations, economic contracts, major decisions, and matters of authorization.
- The Group implements a case handling mechanism involving dual leadership, dedicated task forces, and individuals assigned to specific cases, significantly improving the overall case resolution rate and success rate in litigation. Legal measures have been taken to prevent and recover losses, effectively safeguarding the enterprise's legal rights.



### Strengthening risk management

- The Group clarifies the division of responsibilities for risk management between the governance layer and management layer, between the Group and its directly affiliated enterprises, and between business departments and functional departments. Responsibilities for the first line of defense against risks have been firmly established at all directly affiliated enterprises and business departments, building a robust "three lines of defense" for risk prevention and control.
- Major risk investigation efforts have been carried out, resulting in the formation of the 2024 risk database. Key risks to focus on in 2024 have been clearly identified, with effective control measures and response strategies being developed for major risk events.
- The Group has organized risk prevention symposiums and risk management training for directly affiliated subsidiaries, sharing the latest concepts in risk management and best practices from group-wide risk management experience to enhance the overall risk management capability.

## "Six-in-one" supervision

BG adheres to a coordinated "six-in-one" supervision model, integrating disciplinary inspection and supervision, inspection supervision, Board of Supervisors' supervision, audit supervision, employee democratic supervision, and public supervision into a cohesive system. This ensures the sharing and application of supervision results.

### Disciplinary inspection and supervision

The Group has innovated its discipline inspection and supervision mechanisms, focusing on sustained efforts in critical minority and key areas. Multiple methods have been employed to strengthen supervision, including the coordination between the inspection offices of disciplinary inspection and supervision organs and the enterprise's discipline inspection committees, the linkage of disciplinary committees at three-tier enterprises, and the horizontal collaboration with functional departments. These measures drive problem resolution through both oversight and assistance.

### Inspection supervision

The Group has rigorously addressed the rectification of inspection and issues, completing all tasks within the designated timeframe. A thorough review of inspection rectifications has been conducted, with supervision and guidance provided to ensure that directly affiliated subsidiaries like BEHL and BBEG made solid progress in rectification and self-assessment, achieving a rectification completion rate of over 96%.

### Board of Supervisors' supervision

The Group fully utilizes the dispatched Board of Supervisors' role in oversight, ensuring that the Board of Supervisors actively performs its duties as the investor's representative. This helps effectively prevent actions that could threaten the safety of state-owned assets or harm the interests of state-owned shareholders, while also ensuring the appointed directors and supervisors play their part in corporate governance.

### Audit supervision

The Group rigorously fulfills its audit supervision responsibilities, advancing the improvement of its audit system and establishing a chief auditor work system. Focusing on the prevention and mitigation of major risks, priority areas, and key projects, it ensures thorough and in-depth execution of all audit and supervisory initiatives. A total of 496 audit projects were organized and implemented throughout the year. Additionally, the Group has established a long-term mechanism for addressing issues identified during internal audits, with 1,247 corrective actions completed, achieving a 100% on-time correction rate.

### Employee democratic supervision

Based on the *Implementation Measures for the Workers' Congress of Beijing Enterprises Group* and the *Interim Measures for the Management of Employee Directors of Directly Affiliated Enterprises of Beijing Enterprises Group*, the Group maximizes the role of employee democratic supervision. Clear channels for communication with employees have been established, and efforts have been made to encourage employee participation in management, thereby ensuring effective functioning of employee democratic supervision.

### Public supervision

The Group has established a corporate information disclosure mechanism. All directly affiliated enterprises have published their reporting phone numbers and email addresses via multiple channels, such as corporate WeChat official accounts and mobile newsletters, opening channels for public supervision. This enhances the transparency of enterprise operations and helps establish a transparent state-owned enterprise.



# Prospects

The year 2025 is the final year of both the 14th Five-Year Plan and the new round of the initiative to deepen and upgrade SOE reform; it is also the first year of implementing the resolutions of the Group's Third Party Congress and the year for formulating the 15th Five-Year Plan. Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we will fully implement the guiding principles of the 20th National Congress of the CPC and the Second and Third Plenary Sessions of the 20th Central Committee, actively serve national strategies and support the capital's development, while focusing on building

the "Five Pillars of BG." Highlighting the distinctive character of SOEs, we will strengthen Party leadership with greater resolve; keeping pace with the trend of the times, we will enhance strategic planning with a broader vision; upholding the country's most fundamental interests, we will accelerate the creation of a modern, new state-owned enterprise with greater effort; and driven by a strong sense of commitment and responsibility, we will create comprehensive value with a more open mindset. From a strategic perspective, we will advance ESG work in earnest, strengthen ESG risk and opportunity management, and

continuously refine BG's distinctive ESG system. By meeting ESG obligations to the highest standards, we will enhance our sustainable development capabilities, stay confident and determined, and forge ahead to lay a solid foundation for embarking on the "15th Five-Year Plan" journey. In doing so, we will make greater contributions to helping Beijing lead the country in basically achieving socialist modernization and working tirelessly to write the BG's chapter in the journey of building a modern socialist country in all respects.

# Appendix

## Key Indicators

Indicator	Unit	2022	2023	2024
<b>Major Category: E - Environmental</b>				
<b>Climate Change</b>				
Carbon dioxide	10,000 tonnes	296.14	325.24	306.39
<b>Emissions</b>				
<b>Waste Gas<sup>1</sup></b>				
NOx	tonne	3,697.34	4,398.35	4,113.83
Sulfur dioxide	tonne	704.83	931.14	1,039.82
Smoke and dust	tonne	163	136.86	129.03
Dioxin	mg	330.92	166.1	231.59
<b>Wastewater</b>				
Discharged wastewater	10,000 tonnes	1,580.49	1,578.43	1,465.24
Chemical oxygen demand (COD)	tonne	670.98	934.5	895.31
Ammonia nitrogen	tonne	22.17	89.6	33.91
Total phosphorus	tonne	37.02	42.75	27.8
<b>Hazardous Waste</b>				
Waste produced in wastewater treatment	tonne	328	259	945.11
Fly ash	10,000 tonnes	40.66	49.9	46.42
Spent lubrication oil	tonne	141.48	82.78	79.69
<b>Non-Hazardous Waste</b>				
Sludge after safe treatment and disposal	10,000 tonnes	27.4	321	2.44
Slag	10,000 tonnes	309.14	261.76	283.06
Waste glassy slag	tonne	50,030.77	48,165.73	44,995.73
Spent grains, spent hops, concretion, spent yeast, etc.	10,000 tonnes	41.18	45.82	125.24
<b>Use of Resources</b>				
Total consumption of production electricity	10,000 kWh	257,980.76	284,122.72	287,808.11
Natural gas consumption	10,000 nm <sup>3</sup>	46,288.44	59,238.39	56,732.31
Steam heating consumption	GJ	636,276.87	539,168	492,561.64
Industrial steam consumption	GJ	1,023,074,034.94	1,086,834,249.41	1,215,569.02
LPG consumption	tonne	613.69	615.25	569.69
Gasoline consumption	tonne	2,699.85	48,113.41	3,810.31
Diesel consumption	tonne	3,951.83	6,630.22	6,475.7
Coal consumption	tonne of standard coal equivalent (tce)	60,845.87	44,837.2	25,237.97
Total electricity consumption of office buildings	10,000 kWh	3,603.25	2,393.61	2,196.53

<sup>1</sup> The calculation scope for waste gas emission indicators has been uniformly adjusted to exclude emission reductions.

Indicator	Unit	2022	2023	2024
Total water consumption of office buildings	tonne	600,469.51	290,609.64	464,327.69
Total paper consumption of office buildings	10,000 tonnes	2,029.6	1,848.59	2,588.05
Gasoline consumption of cars for office use	tonne	847.96	393.7	617.1
Comprehensive energy consumption of office buildings	tonne of standard coal equivalent (tce)	4,782.6	21,589.31	5,947.23
Fresh water consumption	10,000 tonnes	3,080.02	3,265.04	3,183.39
Total consumption of packaging materials used in products	tonne	1,761.8	1,603.48	3,809.45
Total energy consumption	tonne of standard coal equivalent (tce)	1,242,795.56	1,300,875.89	1,257,863.36
Non-renewable material consumption <sup>2</sup>	tonne or m <sup>3</sup>	0.11	0.87	7,307.87
Toxic and harmful material consumption <sup>2</sup>	tonne or m <sup>3</sup>	0	0	10.04
Water conserved	10,000 tonnes	0.32	1.37	240.31
Circulating water usage	10,000 tonnes	0	0.52	7.46
<b>Resource and Environmental Management</b>				
Number of green technologies	item	3	5	23
Number of green building renovations	item	0	4	19
Number of online meetings	time	750	1,505	3,901
Environmental public welfare activities	time	25	44	35
Violations of environmental laws and regulations	pcs	1	2	1
<b>Major Category: S - Social</b>				
<b>Employment</b>				
Total employees	person	101,139	129,502	93,568
Labor contract signing rate	%	100	100	100
Social insurance coverage rate	%	100	100	100
Employee training investment	RMB 10,000	793.91	2,502.85	2,383.58
Number of people covered by training	person	17,714	79,751	59,815
<b>Health and Safety</b>				
Number of work-related fatalities	person	0	0	0
Safety risk training coverage rate	%	100	100	100
Occupational disease occurrence rate	%	0	0	0
Total investment in workplace safety	RMB 10,000	188,060.57	217,515.56	330,000
Number of people covered by workplace safety training	person	253,590	411,534	331,620
Number of workplace safety training sessions	time	1,352	1,848	2,186
Duration of workplace safety training sessions	hour	485,841	474,555.5	451,364.7
<b>Supply Chain Management</b>				
Number of suppliers	no.	6,979	11,448	11,816
Number of suppliers implementing the supplier management system	no.	4,101	4,646	7,405
Number of suppliers with ISO 9001 certification	no.	2,490	2,480	2,895
Number of suppliers with ISO 14001 certification	no.	1,874	1,854	2,224

<sup>2</sup> Material consumption has been added as a new indicator, and with the improvement of data collection in 2024, the reported figures have shown a significant increase in scale.

Indicator	Unit	2022	2023	2024
<b>Product Responsibility</b>				
Percentage of product recalls	%	0	0	0
Quantity of customer complaints	pcs	346	1,121	335
Number of incidents involving customer information leakage	pcs	0	0	0
Losses incurred due to violations of relevant laws and regulations	RMB 10,000	0	0	0
<b>Innovative Development</b>				
R&D investment	RMB 10,000	237,130.7	295,230.44	332,895.29
Number of R&D personnel	person	5,392	4,102	8,637
Number of intellectual properties (trademarks, copyrights, etc.)	pcs	496	630	660
<b>Community Investment</b>				
Amount of assistance provided to employees by the Sunshine Special Fund	RMB 10,000	185.56	240.58	149.08
Number of assistance provided to employees by the Sunshine Special Fund	person-time	412	549	391
Employee physical examination coverage rate	%	100	99.93	100
Amount of charitable donations	RMB 10,000	555.51	1,235.79	1,089.02
In-kind donations (equivalent value)	RMB 10,000	90.73	111.83	3.07
Total investment in rural revitalization	RMB 10,000	1,761.51	1,514.96	1,591.3
Volunteer services provided by employees	person-time	27,012	6,689	11,705
Total hours of volunteer services provided by employees	hour	117,046	27,560.5	61,376
<b>Major Category: G - Governance</b>				
<b>Anti-Corruption</b>				
Number of legal cases involving corruption	pcs	0	0	0
Number of people covered by training	person	4,006	53,958	26,122
Total duration of training	hour	12,376	51,369.5	71,952.4
<b>Organizational Structure and Functions</b>				
Total number of Board members	person	7	9	8
<b>Board Members by Gender</b>				
Male	person	7	9	8
Female	person	0	0	0
<b>Board Members by Age Group</b>				
< 30 years old	person	0	0	0
30-50 years old	person	0	1	0
> 50 years old	person	7	8	8
Average term of office for the Board of Directors, Board of Supervisors, and management	year	4.5	3.2	4.2
Proportion of Executive Directors, External Supervisors, and Independent Directors	%	57.1	55.5	0
<b>Risk Management</b>				
Number of risk events	pcs	4	5	20
Number of violations and penalties	time	12	12	10
Amount of fines paid for violations	RMB 10,000	24.45	22.5	38.5

## Feedback

Dear readers,

Thank you for taking the time to read the *Beijing Enterprises Group Company Limited ESG Report (2025)*. We highly value and greatly appreciate your feedback on BG's environmental, social, and governance management, practices, and reporting. To further improve our work and better align future reports with stakeholders' expectations, we kindly invite you to complete the questionnaire below and return it to us by email. Please be assured that we will treat your opinions and suggestions with the utmost seriousness, and your information will be kept strictly confidential and will not be disclosed to any third party.

### Your Information

Name: .....

Tel.: .....

Company/Organization: .....

Email: .....



Scan the QR code to share your valuable feedback

### Your Comments (Please tick "√" in the appropriate box)

1. Do you think the Report provides a comprehensive and accurate reflection of BG's significant impacts on the economy, society, and environment?

Very good     Good     Average     Poor     Very poor

2. Do you think the Report addresses and discloses the issues of concern to stakeholders?

Very good     Good     Average     Poor     Very poor

3. Do you think the information, indicators, and data disclosed in the Report are clear, accurate, and comprehensive?

Very good     Good     Average     Poor     Very poor

4. Do you think the layout and design of the Report make it easy to read?

Very good     Good     Average     Poor     Very poor

5. What is your overall assessment of the *Beijing Enterprises Group Company Limited ESG Report (2025)*?

Very good     Good     Average     Poor     Very poor

6. Which aspects of the Report are you most satisfied with?

.....

7. What additional information would you like the Report to disclose?

.....

8. What valuable ESG information has the Report provided to you?

.....

9. Please provide any other comments or suggestions regarding the Report:

.....

## Index of Indicators

### Environmental, Social, and Governance Reporting Guide issued by the Stock Exchange of Hong Kong Limited

Aspect	Indicator	Description	Response
A1: Emissions	General Disclosure	Information on (a) our policies and (b) our compliance with relevant laws and regulations that have a significant impact on the issuer in areas such as emissions of waste gases, greenhouse gases, discharges into water and land, and the generation of hazardous and non-hazardous waste.	P52-60
	KPI A1.1	Types of emissions and respective emission data.	P85
	KPI A1.2	Direct (Scope 1) and energy indirect (Scope 2) greenhouse gas emissions (in tonnes) and, where applicable, intensity (e.g., per unit of production volume, per facility).	P85
	KPI A1.3	Total amount of hazardous waste generated (in tonnes) and, where applicable, intensity (e.g., per unit of production volume, per facility).	P85
	KPI A1.4	Total amount of non-hazardous waste generated (in tonnes) and, where applicable, intensity (e.g., per unit of production volume, per facility).	P85
	KPI A1.5	Emissions reduction targets were established and steps were taken to achieve them.	P52-54
	KPI A1.6	How hazardous and non-hazardous wastes are handled, along with any reduction targets and the steps taken to achieve them.	P56
A2: Use of Resources	General Disclosure	Policies on the efficient use of resources, including energy, water, and other raw materials.	P57-58
	KPI A2.1	Total direct and/or indirect energy consumption (in thousands of kWh) by type (e.g., electricity, gas, or oil) and intensity (e.g., per unit of production volume, per facility).	P85-86
	KPI A2.2	Total water consumption and intensity (e.g., per unit of production volume, per facility).	P86
	KPI A2.3	Energy efficiency targets are established and the steps taken to achieve them.	P46-51
	KPI A2.4	Any issues related to sourcing water that is fit for purpose, along with water efficiency targets established and the steps taken to achieve them.	P57
	KPI A2.5	Total packaging materials used for finished products (in tonnes) and, where applicable, with reference to quantity per unit of production.	P86
A3: Environment and Natural Resources	General Disclosure	Policies aimed at minimizing the issuer's significant impacts on the environment and natural resources.	P58-60
	KPI A3.1	Significant impacts of business activities on the environment and natural resources, along with the actions taken to manage them.	P58-60
A4: Climate Change	General Disclosure	Policies on identification and mitigation of significant climate-related issues that have impacted, or may impact, the issuer.	P52-55
	KPI A4.1	Significant climate-related issues that have impacted, or may impact, the issuer, along with the actions taken to manage them.	P52-55
B1: Employment	General Disclosure	Information on (a) our policies and (b) our compliance with relevant laws and regulations that have a significant impact on the issuer in areas such as compensation and dismissal, recruitment and promotion, working hours, vacations, equal opportunities, diversity, anti-discrimination, and other benefits and welfare.	P70-72
	KPI B1.1	Total workforce by gender, employment type (e.g., full-time or part-time), age group, and geographical region.	P86
	KPI B1.2	Employee turnover rates by gender, age group, and geographical region.	P70
B2: Health and Safety	General Disclosure	Information on (a) our policies and (b) our compliance with relevant laws and regulations that have a significant impact on the issuer's ability to provide a safe working environment and protect employees from occupational hazards.	P64-66
	KPI B2.1	Number and rate of work-related fatalities recorded over the past three years (including the reporting year).	P86
	KPI B2.2	Lost workdays due to work-related injuries.	/
	KPI B2.3	Occupational health and safety measures that have been adopted, and ways of their implementation and monitoring.	P64-66、70

Aspect	Indicator	Description	Response
B3: Development and Training	General Disclosure	Policies aimed at enhancing employees' knowledge and skills to perform their duties, along with provided training activities.	P71
	KPI B3.1	Percentage of employees trained by gender and employee category (e.g., senior management, middle management).	P86
	KPI B3.2	Average number of training hours completed per employee by gender and employee category.	P71
B4: Labor Standards	General Disclosure	Information on (a) our policies and (b) our compliance with relevant laws and regulations that have a significant impact on the issuer's efforts to prevent child and forced labor.	P70
	KPI B4.1	Measures implemented to review employment practices and ensure the prevention of child and forced labor.	P70
	KPI B4.2	Steps were taken to eliminate any violations upon discovery.	P70
B5: Supply Chain Management	General Disclosure	Policies on managing environmental and social risks within the supply chain.	P26-27
	KPI B5.1	Number of suppliers by geographical region.	P86
	KPI B5.2	Practices used for engaging suppliers, numbers of suppliers adhering to these practices, and ways of their implementation and monitoring.	P26-27、86
	KPI B5.3	Practices used for identifying environmental and social risks along the supply chain, and ways of their implementation and monitoring.	P26-27
B6: Product Responsibility	General Disclosure	Information on (a) our policies and (b) our compliance with relevant laws and regulations that have a significant impact on the issuer in areas such as health and safety, advertising, labeling, privacy, and remedial actions related to the products and services provided.	P76-78
	KPI B6.1	Percentage of total products sold or delivered that were subject to recalls due to safety or health concerns.	P87
	KPI B6.2	Number of complaints received regarding products and services, along with the processes used to address them.	P77-78、87
	KPI B6.3	Practices in place to observe and protect intellectual property rights.	P37
	KPI B6.4	Quality inspection processes and product recall procedures.	P76
B7: Anti- Corruption	KPI B6.5	Consumer data protection and privacy policies, and ways of their implementation and monitoring.	P66
	General Disclosure	Information on (a) our policies and (b) our compliance with relevant laws and regulations that have a significant impact on the issuer in areas such as bribery, extortion, fraud, and money laundering.	P80-82
	KPI B7.1	The number of concluded legal cases related to corrupted practices brought against the issuer or its employees during the reporting period, along with the outcomes of these cases.	P87
	KPI B7.2	Preventive measures and whistle-blowing procedures in place, and ways of their implementation and monitoring.	P80-82
B8: Community Investment	KPI B7.3	Anti-corruption training provided to directors and employees.	P80、87
	General Disclosure	Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure that its activities take into consideration the communities' interests.	P27-30
	KPI B8.1	Key areas of contribution (e.g., education, environmental issues, labor needs, culture, sports).	P16-19、26-30
	KPI B8.2	Resources allocated to these areas (e.g., money, time).	P87

## Rating Report

### Rating Report of the ESG Report (2025) of Beijing Enterprises Group Company Limited

At the request of Beijing Enterprises Group Company Limited (hereinafter "BG" or "the Group"), the Chinese Expert Committee on CSR Report Rating convened a team of experts to form a Rating Team and evaluate the ESG Report (2025) of Beijing Enterprises Group Company Limited (hereafter "the Report").

#### I. Rating Basis

The rating was conducted in accordance with the *Guidelines on Corporate Social Responsibility Reporting for Chinese Enterprises* (CASS-CSR 4.0) issued by the Chinese Academy of Social Sciences (CASS) and the *Rating Standards for the Sustainability Report of Chinese Enterprises (2025)* by the Chinese Expert Committee on CSR Report Rating.

#### II. Rating Process

1. The Rating Team reviewed and confirmed the *Confirmation Letter on Materials for Process Evaluation of the Sustainability Report of Enterprises*, along with relevant supporting documents submitted by the Report Preparation Team.
2. The Rating Team assessed both the compilation process and the disclosed content of the Report and drafted the Rating Report.
3. The Vice Chairman of the Chinese Expert Committee on CSR Report Rating and the leader and the expert of the Rating Team cosigned the Rating Report.

#### III. Rating Results

##### Process (★★★★★)

BG established a report preparation working group, led by the Group's Deputy General Manager for ESG efforts. The Report was reviewed by the Group's General Manager's Office, the Party Committee, and the Board of Directors. The Chairman, General Manager, and Group executives gave the final approval and signed off on the Report. The Report is positioned as the Group's "golden business card" for external communication, serving as an important tool to address the concerns and requirements of stakeholders such as the government, capital markets, and the public. Its purpose and value is clearly defined. Material topics were identified through multiple methods, including stakeholder engagement, media and public opinion collection, internal and external expert advice, performance assessments by the Group's departments and affiliated units, and benchmarking against social responsibility standards. The *Opinions of Beijing Enterprises Group on Strengthening ESG Work of Directly Affiliated Enterprises* were formulated to promote ESG system development in subsidiary companies, and all listed companies under the Group published sustainability/ESG reports. The Report is planned to be published on the official website and presented in electronic, print, and video formats, with outstanding performance in process.

##### Materiality (★★★★★)

The Report discloses key issues in the industry, such as product quality management, product innovation, occupational health management, workplace safety, environmental technology and equipment R&D and application, energy and water resource conservation, reduction of waste gas, wastewater, and solid waste emissions, and environmental governance around the factory. Therefore, the Report shows outstanding performance in substance.

##### Completeness (★★★★☆)

The Report systematically covers 88.73% of the core industry indicators from the perspectives of "Responsible BG: Staying True to Our Original Aspiration and Fulfilling Our Mission," "Technological BG: Stimulating Vitality and Driving Growth," "Green BG: Promoting Greening and Decarbonization," "Humanistic BG: Uniting People and Enriching Culture," and "Quality BG: High Standards and High Quality," demonstrating leading performance in completeness.

##### Balance (★★★★★)

The Report discloses negative data, such as "number of work-related fatalities," "percentage of product recalls," "quantity of customer complaints," "losses incurred due to violations of relevant laws and regulations," and "amount of fines paid for violations." It also briefly mentions that "no workplace safety-related accidents occurred throughout the year" and "no incidents of child labor or forced labor violations occurred." Therefore, the Report has an outstanding balance performance.

##### Comparability (★★★★★)

The Report provides three years of comparative data for 86 key indicators, including "total number of Board members," "number of risk events," "social insurance coverage rate," "total investment in workplace safety," "total electricity consumption of office buildings," and "total energy consumption." It also compares horizontal data such as "ranked among the 'Top 500 Chinese Enterprises' for consecutive years, placing 200th in 2024," and "selected as one of the 'CSR Pioneer Index Top 100 SOEs (2024)' by the SASAC, ranking 6th overall and 1st among Beijing-based SOEs." Therefore, the Report exhibits outstanding performance in comparability.

##### Readability (★★★★★)

The Report adopts a topic-based framework and systematically showcases the Group's responsibility practices and outcomes through topics such as "Responsible BG," "Technological BG," "Green BG," "Humanistic BG," and "Quality BG," comprehensively responding to stakeholder expectations and demands. Cross-page real-life images related to the chapters' themes are used to present key issues and responsibility performance, enhancing the Report's readability. The "Facts about BG" section explains professional and company-specific terms, helping readers quickly understand the Report's content. The Report design closely aligns with the Group's goals of building "Five Pillars of BG" and uses ink-wash paintings of "lucid waters and lush mountains," incorporating representative elements of the Group to ensure high brand recognition. Therefore, the Report shows outstanding readability.

##### Innovation (★★★★★)

Each chapter of the Report begins with an innovative "Story of Responsible BG" section, which interprets the Report's content through stories, emphasizing the significance of corporate responsibility and showcasing the Group's effective actions. The use of QR codes for visual extension enriches the content and enhances the Report's communicability and reach. The *Opinions of Beijing Enterprises Group on Strengthening ESG Work of Directly Affiliated Enterprises* were formulated to establish an ESG management evaluation system for directly affiliated enterprises. Therefore, the Report showcases outstanding performance in innovation.

##### Overall Rating (★★★★★)

Following evaluation by the Rating Team, the *ESG Report (2025) of Beijing Enterprises Group Company Limited* was awarded a five-star rating, confirming it as an outstanding ESG report.



中国企业社会责任报告  
评级专家委员会  
Chinese Expert Committee on CSR Report Rating

#### IV. Suggestions for Improvement

More industrial core indicators should be disclosed to enhance the overall completeness of the Report.

The Environmental, Social and Governance (ESG) Report of Beijing Enterprises Group Company Limited has been awarded a 5-star rating for the 11th consecutive year.

Vice Chairman of the Chinese Expert Committee on CSR Report Rating

Leader of the Rating Team

Expert of the Rating Team



Scan the QR code to view the enterprise's rating file

Issued on July 22, 2025

### Beijing Enterprises Group Company Limited ESG Reports

### ESG Reports of BG's Controlling Listed Enterprises





# ESG REPORT

**BG北控**

电话: (8610) 56891919

传真: (8610) 85879055

Email: [esg@begcl.com](mailto:esg@begcl.com)

Address: Building 2, BG Sci-Tech Innovation Park, No. 59 Huagong Road,  
Chaoyang District, Beijing



Official WeChat  
Account



Scan the QR code  
for more details



The report is printed on  
environmentally friendly paper